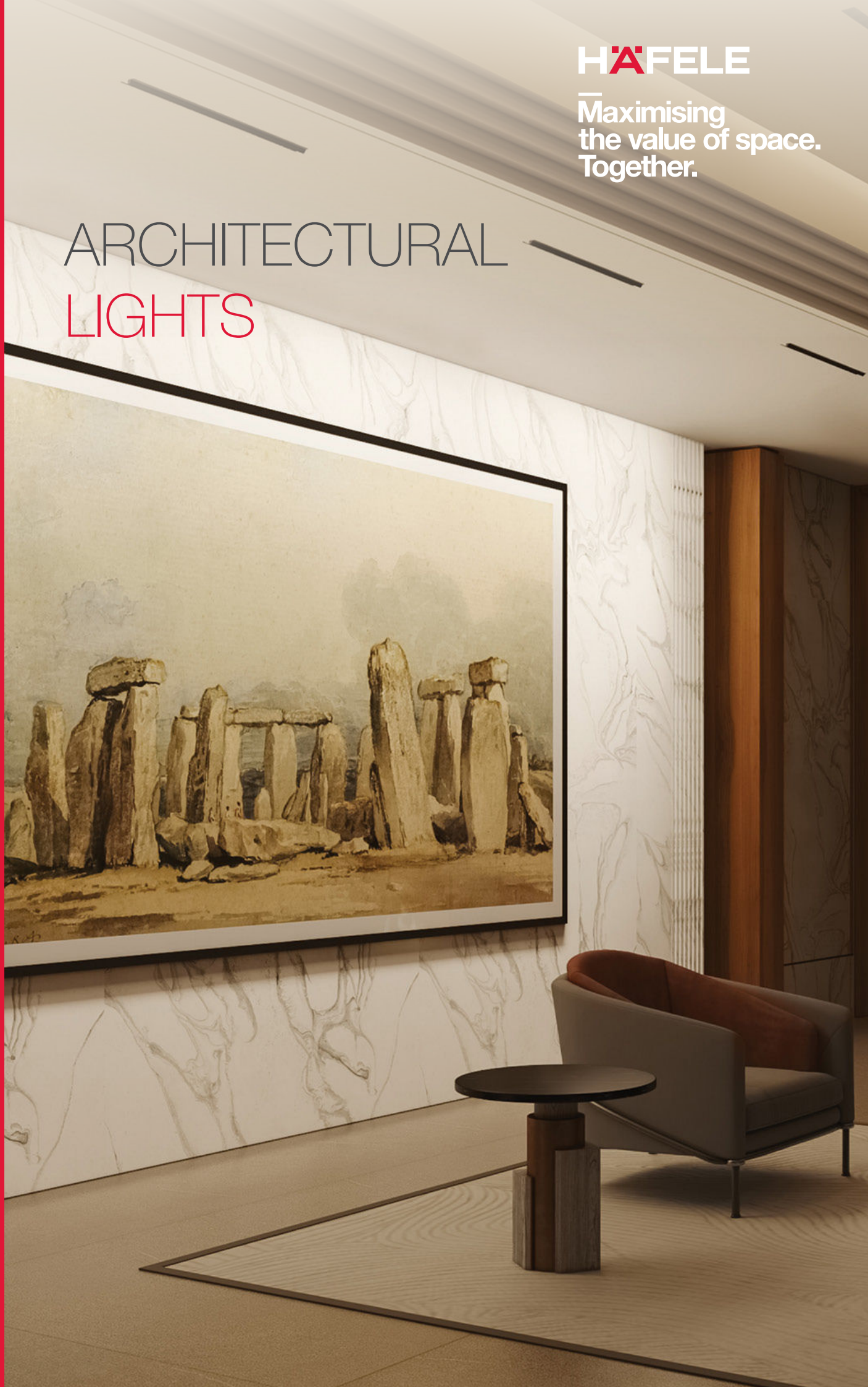
HÄFELE

Maximising
the value of space.
Together.

ARCHITECTURAL LIGHTS



www.hafeleindia.com

The first 100 years.



Dear Reader,

2023 marks a huge **milestone in the history** of our company. Häfele is now **one hundred years old**, and we are taking the opportunity of this extraordinary anniversary to pause and reflect intensively on the growth that's taken us from a small hardware store in the Black Forest (Germany) to a global company.

In addition to extraordinary people who have guided the company's fortunes with far-sightedness, what stood out prominently for us was our ability to forge **strong partnerships** that have been fundamental in shaping our progress and achieving the milestones we stand before today. We sought to build an ecosystem that fostered a sense of community, respect, and shared purpose and over the years, this approach has proven to be the cornerstone of our achievements. Together, we have weathered economic downturns, navigated shifting market trends, and embraced technological advancements.

Therefore, it wouldn't be incorrect to state that it has been **courage and optimism**, above all that have carried us as an organization through stormy times. These qualities have also defined Häfele from the very beginning and characterised the founders back in the day. The original 2-man business which was a specialist hardware store led by **Adolf Häfele and Hermann Funk**, has developed into a global company, Häfele SE & Co KG, with subsidiaries in **38 countries, 8,000 employees** and more than **1,50,000 customers**.

Standing on the threshold of the next phase of our journey, we realise that it was courage and optimism along with an **unwavering alliance with our employees, vendors, suppliers and above all our customers**, that enabled us to change continuously, to break new ground and not only to think ahead, but also to actively implement these forward-thinking ideas.

As we foray into the next 100 years, Hafele presents its future-oriented brand purpose (which will be at the very core of our strategic outlook) - **"Maximising the value of space. Together."** The new brand claim aims to consolidate our attitude, our competences, the developments inside and outside of our company and the strategic decisions we have made in the past years and decades. And as we transition between the first and second century, we aim to pour our collective experiences that have brought us here into a connected mould – our purpose, that will function as a starting point for a shared journey into the future and will act as a powerful compass for us.

Needless to say, we excitedly look forward to shaping this - perhaps new, different, surprising - future together with you!

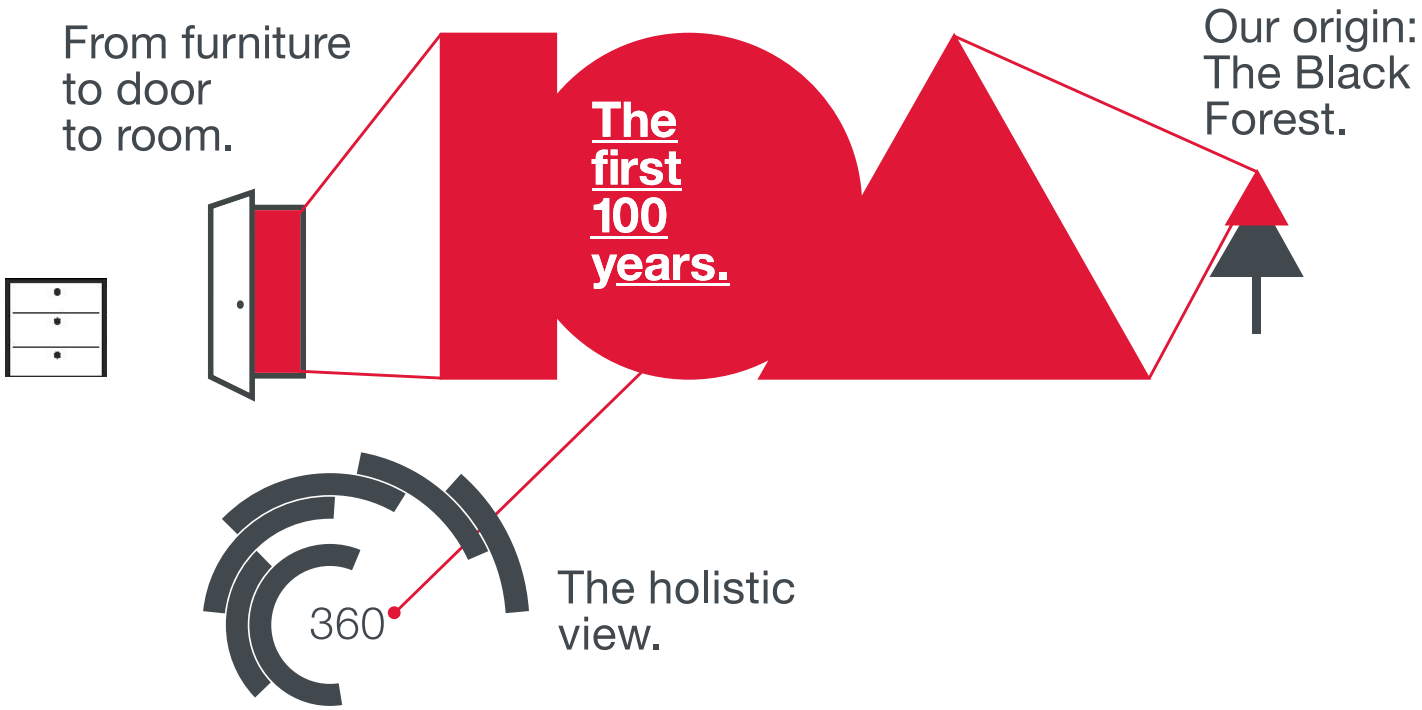
With Best Regards,

Frank Schloeder
Managing Director, Hafele South Asia

HÄFELE

THE PATH OF HÄFELE **THAT TRANSLATED INTO SYMBOLS**

For the 100-year anniversary of Häfele, we have expressed two things: The pride in the successful path that the company has taken up to today, and optimism that the path to the future will be just as successful because we have the courage to continuously reinvent ourselves. This is why the anniversary design is based on the roots of the company and is at the same time open and flexible. A modern forward-looking code that gives our ambitions a visual expression



The first 100 years.

HÄFELE

MAXIMIZING THE VALUE OF SPACE. **TOGETHER.**

In conjunction with its 100-year anniversary celebrations this year, that kicked off at Interzum 2023, Hafele unveiled a new purpose line **"Maximizing the value of Space. Together."** which resonates strongly with us. We aim to strengthen our brand position in South Asia by emphasizing on the meaning of this purpose line, i.e. Hafele strives to provide the best of the best **(maximizing)** benefits **(value)** through its versatile solutions and services for different living and working spaces ranging from hotels, offices, institutes and homes as well as different interior applications like kitchens, living rooms & bedroom furniture, doors and interior partitions, wardrobes as well as furniture and room lighting. And this we strive to achieve in partnership **(together)** with all entities within our ecosystem from our suppliers, partners (Industry and Project), channels (distributors, dealers and franchisees), influencers (architects, designers, contractors and carpenters) right up to the final beneficiary i.e., our end customer.

In short, with our new purpose line we aim to co-create an environment for our endearing customers where they can enjoy the multiplied benefits of their living and working spaces.

Häfele Worldwide



With its origin in 1923 in a small town named 'Nagold' from the Swabian region of Germany that nurses a passion for hardware technology, it is no surprise that Häfele has lived up to its roots through a successful presence in the architectural and furniture hardware industry for almost 10 decades now. Today, Hafele's worldwide penetration includes 38 subsidiaries across Europe, America, Asia, Australia and New Zealand. With these subsidiaries and numerous other sales organisations, Häfele operates in over 150 countries. The Häfele headquarters, 4 manufacturing units and 10 sales offices are located within Germany; while 1 manufacturing unit is located at Budapest, Hungary. The company also owns one of the largest and most sophisticated warehouses in its home country. The Häfele worldwide workforce is empowered by a base of over 8100 employees.

The group services over 150,000 customers across the globe through its extensive range of hardware products and a comprehensive logistics system. In addition to this, Häfele also provides consultative services to its customers, educating and advising them about buying the correct hardware as per their requirements. With this level of market penetration and ability to handle worldwide demand, it comes as no surprise that the company is an authority in the segment of home interior solutions; what is pleasantly surprising, though, is that in spite of its size, Häfele still remains a family owned and run business with a unique, friendly and value-centric work culture which is strongly followed among all its subsidiaries.

Häfele India



Häfele India is a wholly-owned subsidiary of the Häfele Global network and has been operating in India since 2003. The ability of the company to understand the diverse Indian market has made it an authority in the field of architectural hardware, furniture and kitchen fittings and accessories. The company also has a strong presence in synergized product categories namely Home Appliances, Interior Lighting, Water Solutions and Surfaces catering to the focused demand from these industries.

The subsidiary has a strong nation-wide presence with offices in Mumbai, Pune, Ahmedabad, Bangalore, Chennai, Hyderabad, Cochin, Delhi and Kolkata. It has full-scale operations in Sri Lanka and Bangladesh with Regional offices and Design Showrooms in both the countries; and has also spread its operations to other regions of South Asia including Nepal, Bhutan and Maldives.

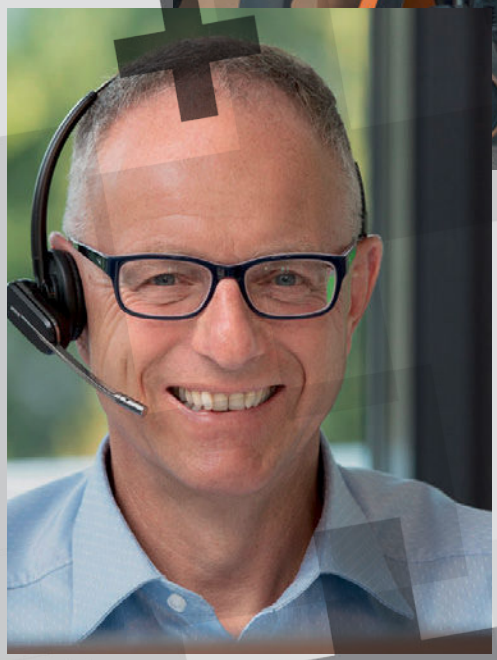
Häfele's design showrooms are hubs of international home interior trends and cutting-edge designs presented in a world-class environment, where customers can see home solutions in their inherent applications. These showrooms function as a one-stop-shop for all home interior and improvement needs - from providing in-depth technical advice to kitchen and wardrobe designing services through a team of experts stationed at the showroom.

Häfele India services its customers with a base of 1500 employees, a well-networked Franchise base of over 180 Partners along with over 500+ direct dealers and 90+ distributors who in turn cater to over 12000+ sub dealers. The subsidiary has a sophisticated Logistics centre in Mumbai along with distribution centres in Delhi, Bangalore, Kolkata and Colombo respectively.

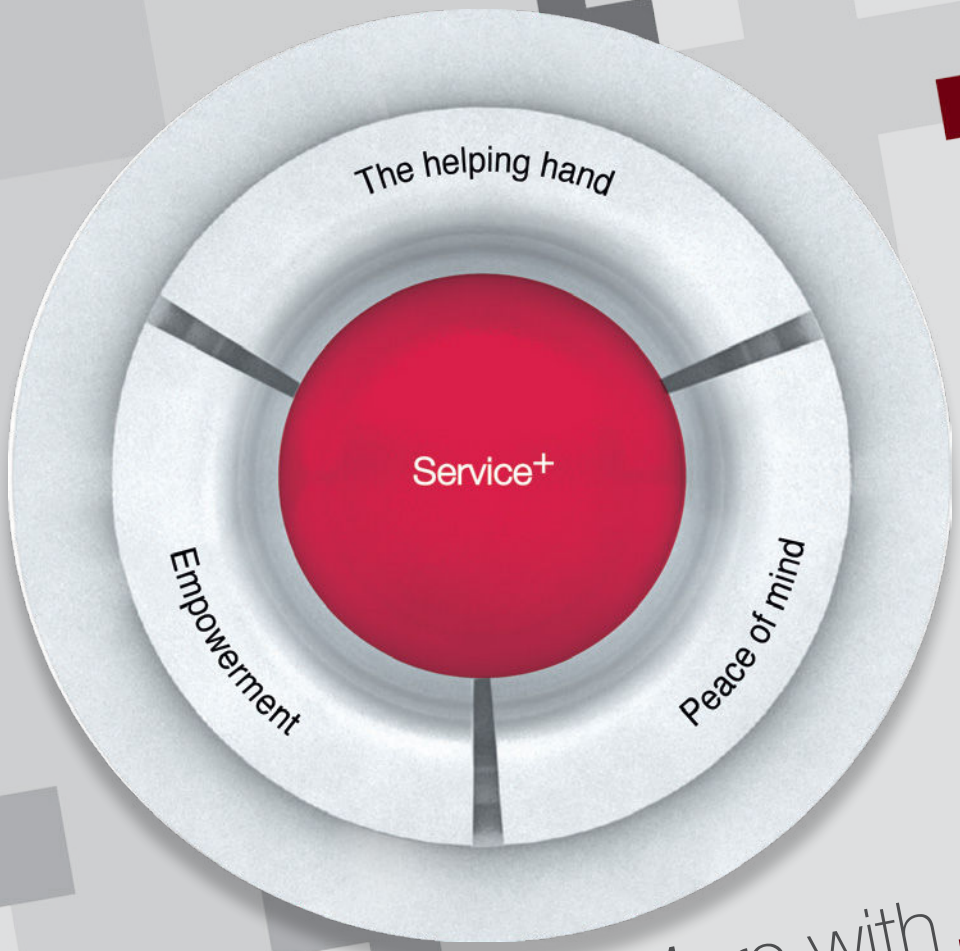












Experience More with Service+

Our customer's working environment is becoming increasingly complex and their market is becoming ever more demanding. This drives our motivation to do everything in our power to help our customers be successful. And to demonstrate that Häfele is the right partner in these challenging times, we want to accompany our customers throughout their entire business process and give them added strength in every phase of their business. We don't just want to sell our products, we also want to provide the highest level of service.

We have now divided our services into two categories: **Standard Services** which we provide to our customers as a matter of course when they choose our products. For example, a high availability of our goods and punctual delivery. And then there is **Service+** which constitutes of services that give our customers considerable added value in terms of building expertise, increasing productivity or providing individual customised solutions. These services require a considerable amount of time and effort to develop and implement and are designed to enable our customers to regard them as worthwhile investments.

The aim is to create solid long-term foundations for our comprehensive service promise and to make Häfele an indispensable partner for our customers. The focus here lies not so much on us and on what we do – but rather, on the benefits derived by our customers. We want to **empower** them with opportunities to develop and expand their skills – both as masters of their trade and as entrepreneurs. We want to support them in the planning and realisation of their projects and relieve them of as much work as possible, thereby providing them with a **helping hand** to use their most valuable resource – time – as efficiently as possible. And we aim to give our customers **peace of mind** and the assurance that even after the end of a successful project completion, we will continue to be there for them as a reliable partner, shouldering responsibility.

HÄFELE™
ARCHITECTURAL LIGHTS



The Pillars of Service+

In order to support you as comprehensively as possible, we have assigned the Plus Services to individual stages of your work process in a total of four themed pillars. We start with the transfer of knowledge and accompany you via planning and production to installation and maintenance.



Empowering customers with

Service+ Knowledge

Includes service offerings that provide inspiration and expertise to our customers about the Häfele product range. Through these, we enable our customers to use Häfele products profitably and at the same time remain at the cutting edge of technological development. One example of this is the Häfele Academy, which imparts knowledge about complex products and new technologies to our customers via seminars and trainings.

Providing a helping hand to customers with

Service+ Planning & Customised

Includes service offerings like space, design planning and customisations that make life easier for our customers and support their design vision. An example of this is Hafele's Lighting Design Service which helps our customers curate a lighting xplan, following a customised approach, that enhances and brings out the true functionality of the interior space as per requirement.





Lending a "Peace-of-mind" experience through

Service+ Assist

Includes service offerings that provide support and assistance to our customers, whether digitally or on site. An example of this is the complete assembly and installation service for more complex and maintenance-intensive products done by our Meister certified and trained technicians.

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ARCHITECTURAL LIGHTS

Service+ Planning

Lighting Design Services



You are planning a light project and have your initial ideas about the illumination and effects you want to achieve? Are you confused on how to go about with the detailed planning? Let us make your work easier with Hafele's Lighting Design Service.
The Lighting Design Service offers a bespoke design approach that ensures you have the right light fittings for the right task or application. Our team of design experts curate a lighting solution that enhances and brings out true functionality of your living spaces as per your requirement.

By request, you will first receive a proposal from our lighting experts as to how the solution can be optimised. Followed by a finished circuit diagram including a parts list, and even an installation plan in the form of individual assembly instructions. This will allow you to save time during planning as well as on site.

To learn more about Lighting Design Service, please contact our team by scanning this QR code or call us at 1800 266 6667



Häfele Academy

Service+ Knowledge

New technologies throwing up new challenges? Is incorporating lighting in furniture difficult? Light in furniture is no longer an accessory, it has now becoming an essential function.

Häfele supports its customers with a comprehensive range of lighting workshops and trainings. The Häfele Academy creates an environment where we can work together with our customers to help them have a deeper understanding of our products, new innovations and strengthen the relationship we have with them.

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HÄFELE™
ARCHITECTURAL LIGHTS

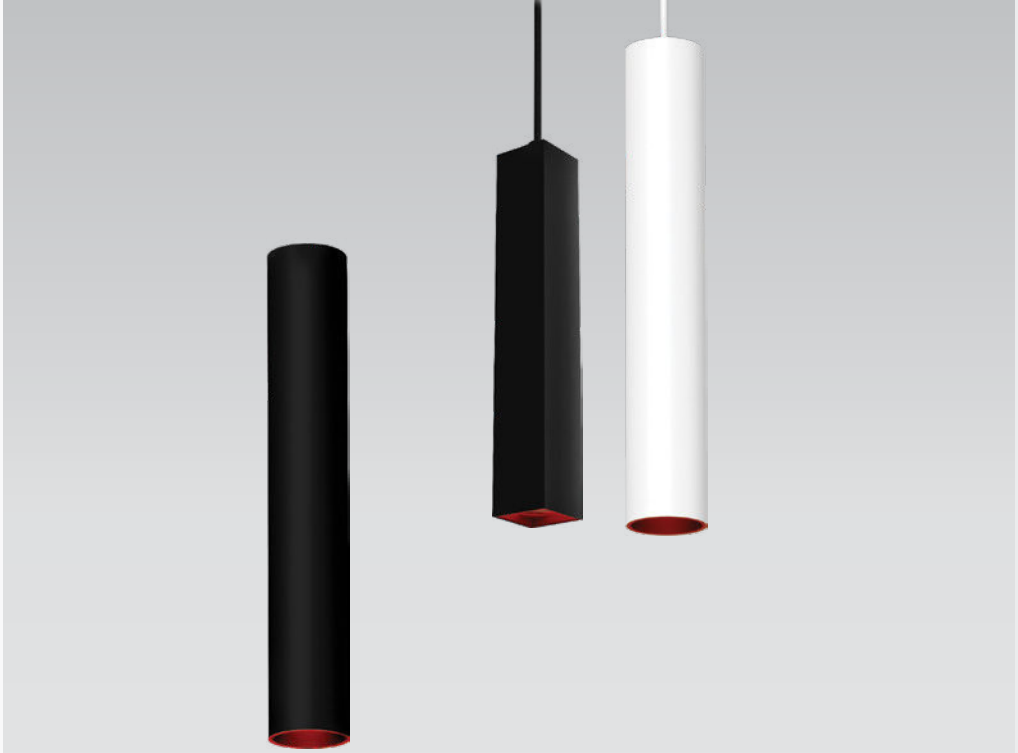


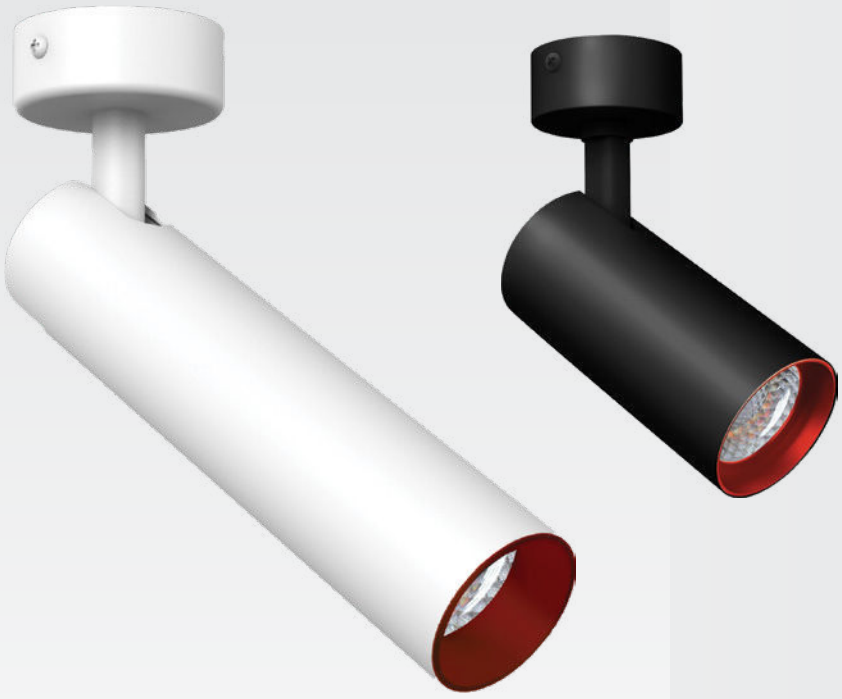
HÄFELE™
ARCHITECTURAL LIGHTS



ARCHITECTURAL LIGHTS

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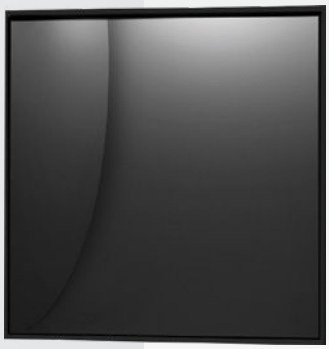




HÄFELE™
ARCHITECTURAL LIGHTS



SPOTLIGHTS
DOWNLIGHTS
WALL WASHERS
FLOOR WASHER





THE DELFT SERIES



THE OXFORD SERIES



THE PRINCETON SERIES



THE MCGILL SERIES

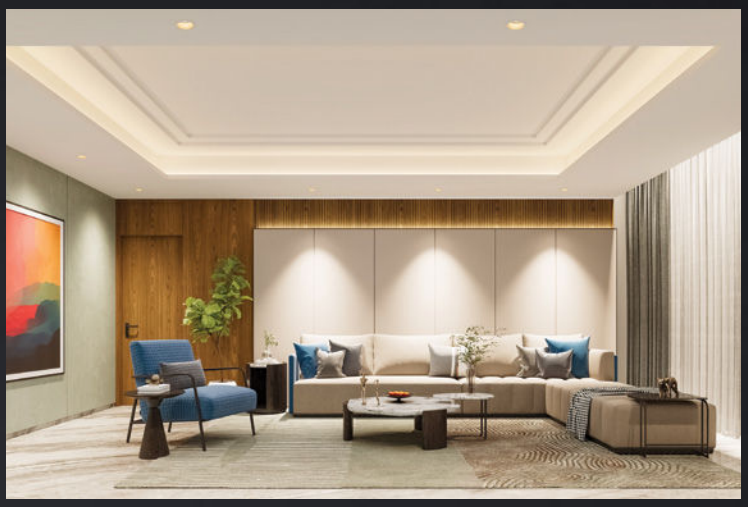
HÄFELE ARCHITECTURAL LIGHTS

Häfele's Loox Range has been meeting the demands for lighting in furniture as well as the growing needs for networking and digitalization since the last 10 years. The solutions offered within this range maximize simplicity and flexibility as well as assure high reliability. The range presents itself as a unique combination of elegant design and state of the art technology making it the perfect choice for any home furniture application, be it Task Lighting for Kitchen cabinets and plinths, Decorative Lighting for Living Room Showcases, Mood Lighting for Bedroom Applications or pure Functional Lighting in Wardrobes.

With the ever increasing demands for quality and specialized lighting solutions not just for furniture but also for rooms, Häfele in 2019 expanded its range offering to include ceiling cove lighting which incorporates our high quality strip lights. It was during this period that we realized that among the numerous ceiling light types available in the market, interior architectural lighting had a huge demand, however there weren't many prominent brands that offered these solutions. On one side, there existed local market players that offered these solutions without effective quality assurances, while on the other there were international brands that only catered to projects with no stable price offering or service support. This left majority of the customers without a viable choice in the market.

Identifying this distinct gap early on as an opportunity, Häfele initiated the research and engineering for a range of lights that enhances the design of architectural spaces as well as provides opportunities of achieving different illumination techniques and functionalities. As a brand, Hafele understands design and is known for its bend towards innovation. It also understands the importance of home ergonomics, lifestyle conveniences and ease of mobility within your surroundings. Our efforts towards this exercise led to the development of a versatile range of architectural lights; Häfele Architectural Lights was brought into existence.

With Häfele's New Architectural Lights Range, you will find all your lighting needs taken care of. Whether it is lighting up a small area, highlighting a wall texture, emphasizing on a work of art, illuminating the floor space at night or simply ensuring even distribution of light across the entire space - these lights have got you covered. The range covers various applications, installation techniques and design themes. Each series comes with a



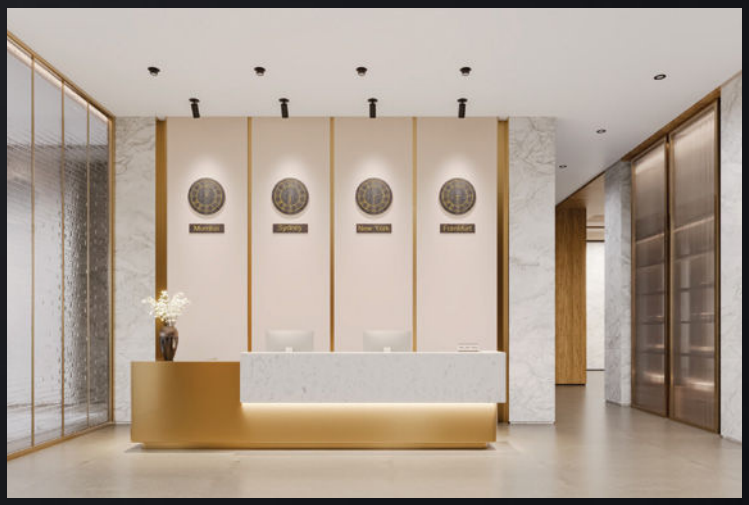
THE STANFORD SERIES



THE IMPERIAL SERIES



THE CAMBRIDGE SERIES



THE EDINBURGH SERIES

comprehensive offering of the different types of interior lights, be it downlights, spotlight or wall washers, which allows you to implement a consistent design theme (in terms of the lighting fixtures) across the space available, even with differentiated illumination techniques. The biggest advantage this range carries is the absolutely low Unified Glare Rating (UGR). The lower the UGR rating, the lower the glare from the light fittings which therefore results in comfortable illumination in your living spaces.

The convenient plug and play assembly, impressive product specifications, flexibility in ordering components, luminaire finishes, and availability of glare reduction accessories provide an overall customized option tailored to your specific requirements. Engineered on the same philosophy of 'easiness' and 'flexibility' as the Loox furniture lighting system, Hafele can now be your holistic lighting solutions provider, delivering premium ambient, task and accent lighting for your living spaces.



THE COLUMBIA SERIES


HÄFELE
ARCHITECTURAL LIGHTS



DELFT

Recent preferences among architects in the industry have evolved more in favour of having compact, minimal light fixtures that do not interfere with the overall design theme. Additionally, there is a strong inclination towards installing fewer luminaires that cover a significant portion of the ceiling space and illuminate a given area effectively. The Delft series of architectural lights was developed to cater to higher illumination in the downlight and spotlight series with its small and exquisite design.

Available in two colours, black and white, the Delft series is best suitable for dining rooms, hotel rooms, bedrooms, living rooms, and display areas with its deep baffle design which equally distributes the light toward the center. With the help of a simple plug-and-play concept.

THE DELFT SERIES: MODULARIZATION CONCEPT



LIGHT ENGINE



Heat sink
Absorbs the heat generated by the light engine and dissipates it into the environment, maintaining the required operating temperature.

LED holder with LED chip
Designed to mount the LED onto the fixture and to integrate it into the circuit.

Lens
Amplifies the light output from the LED.

Rubber Gasket
Prevents proliferation of moisture and dust particles.

Housing With Integrated Mounting Bracket
Provides support to attach the luminaire to the false ceiling structure.

Mounting bracket types:



Trim



Trimless

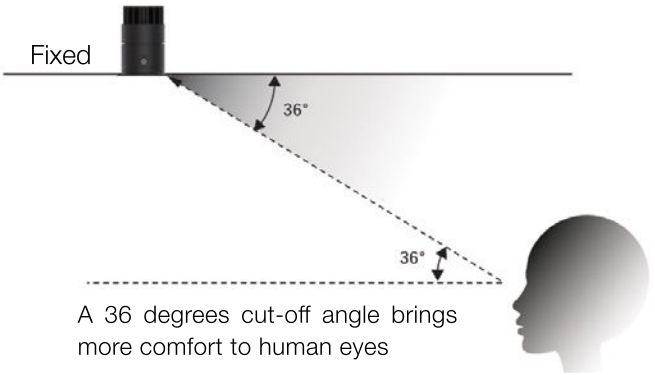
THE DELFT SERIES: FEATURES

1. Modularization concept

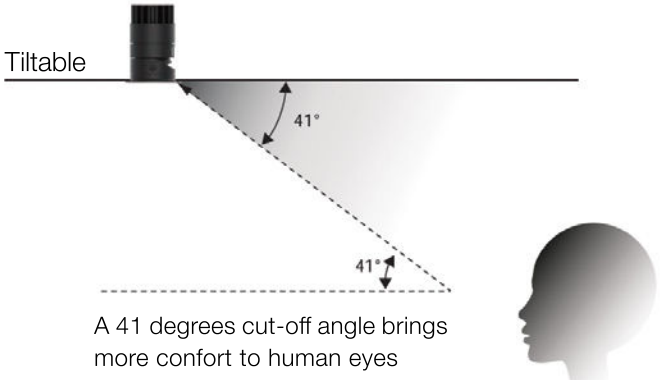
The Delft series delivers flexibility and a variety of options for the customer to choose from The ordering process involves building on the light engine as per installation preference.
Mentioned below are all the choices a customer can detail to arrive at a solution tailored to his/her specific requirements

Types:	Spotlight and downlight
Wattage options:	5W and 7W
Beam angles:	20°, 35°, 50°
Colour of the luminaire	Black and white
Housing types:	Fixed and tiltable
Mounting bracket installation:	Trim and trimless
Colour temperature:	2700K, 3000K, and 4000K

2. Low glare fixture

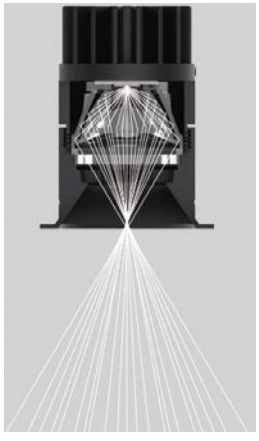


A 36 degrees cut-off angle brings more comfort to human eyes



A 41 degrees cut-off angle brings more confort to human eyes

If the cut-off angle is higher, the luminaire's visual comfort will also increase due to the glare* reduction. The luminaires from the Delft Series ensure a low glare function that helps produce a pleasant visual impact. They are designed with a 36° cut-off angle for fixed housing and a 41° cut-off angle for tiltable housing.
*Glare is a visual sensation caused by excessive and uncontrolled brightness at the light source.

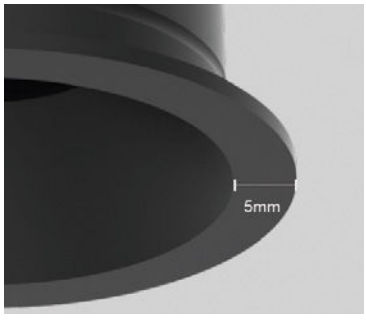


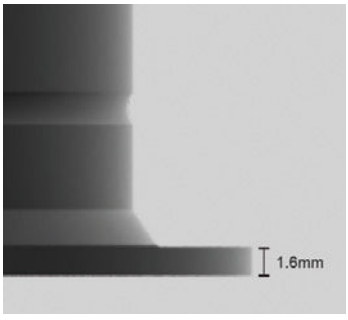
3. Deep baffle design

The Delft series luminaires, deep baffle design reduces glare. Additionally, they have specialized lenses that offer numerous internal reflection spots to guarantee a beam angle that is equally distributed toward the center.

4. Unified Glare Rating (UGR) of < 14

The lower the UGR rating, the lower the glare. To achieve comfortable illumination in your living spaces, the UGR of the luminaires is recommended to be below 20 which is possible to achieve with the Delft Series.
UGR values range from 40 (extremely high glare) to 5 (very low glare).





5. Small and exquisite design

With a thin frame design of 1.6 mm in height and 5 mm in width, these fixtures are small, compact, and blend into the ceiling perfectly.

THE DELFT SERIES: DECODING THE NOMENCLATURE

Delft	5W	.25A	TLT	RD	TR	20°	30K	WH
	1	2	3	4	5	6	7	8

Number	Category	Abbreviation	Possibilities
1	Output	W	5 Watts
			7 Watts
2	Current	.25A	250mA
		.7A	700mA
3	Housing type	TLT	Tilt
		DL	Fixed Downlight
4	Shape	RD	Round
5	Mounting bracket type	TR	Trim
		TL	Trimless
6	Beam angle	°	20°
			35°
			50°
7	Colour temperature	27K	2700K
		30K	3000K
		40K	4000K
8	Finish	WH	White
		BLK	Black

THE DELFT SERIES: RANGE SPECIFICATIONS

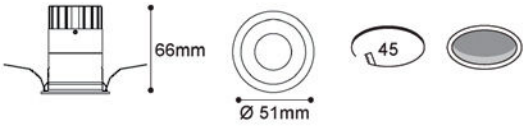
Luminaire type	Spotlight, Downlight
Colour temperature	2700K, 3000K, 4000K
CRI	>95
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Maximum ambient temperature	45° C
Material	Die cast aluminium
Beam angle	20°, 35°, 50°
Finish	Black, White
Average rated life	> 60,000 hrs.
Mounting technique	Recess
Degree of protection	IP44
Certification	BIS (Bureau of Indian Standards)
Applications	Indoor - Dining rooms, hotel rooms, bedrooms, living rooms, display areas

THE DELFT SERIES: RANGE SPECIFICATIONS

FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

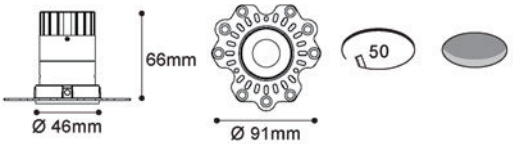
IP44 | UGR<14 | 5W, 7W





Housing type	Fixed
Description	Delft RD TR
Mounting brackets	Trim
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Beam angle	20°, 35°, 50°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	85 (5W) lm/W, 79 (7W) lm/W



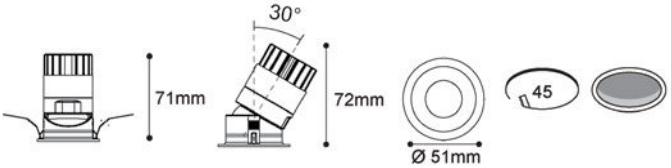


Housing type	Fixed
Description	Delft RD TL
Mounting brackets	Trimless
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Beam angle	20°, 35°, 50°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	85 (5W) lm/W, 79 (7W) lm/W

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

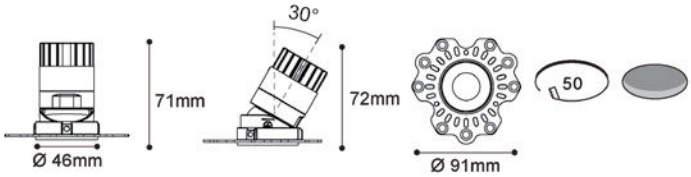
IP44 | UGR<14 | 30° | 5W, 7W





Housing type	Tiltable
Description	Delft TLT RD TR
Mounting brackets	Trim
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Beam angle	20°, 35°, 50°
Housing Colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	85 (5W) lm/W, 79 (7W) lm/W



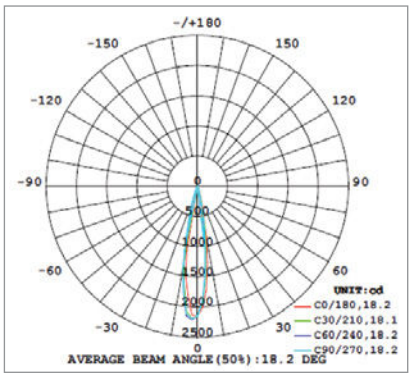


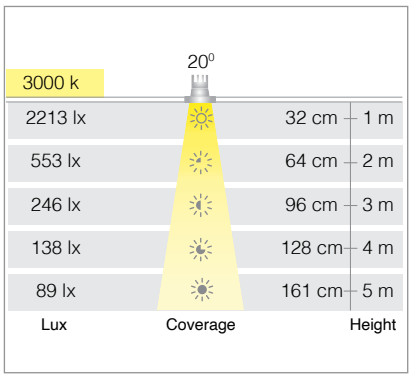
Housing type	Tiltable
Description	Delft TLT RD TL
Mounting brackets	Trimless
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Beam angle	20°, 35°, 50°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	85 (5W) lm/W, 79 (7W) lm/W

THE DELFT SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

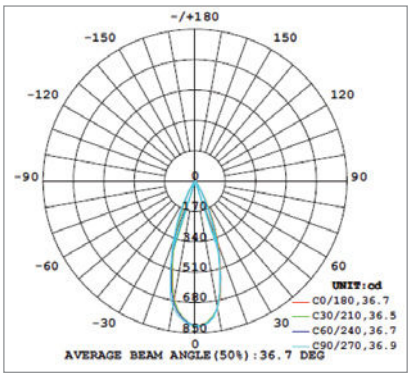
5W Luminaires

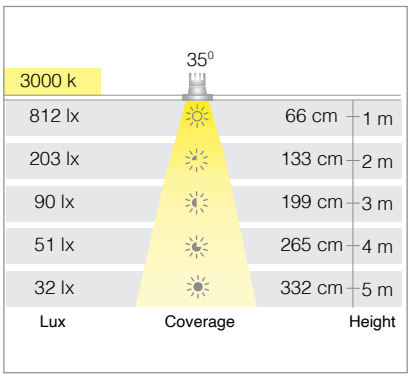
20° BEAM ANGLE



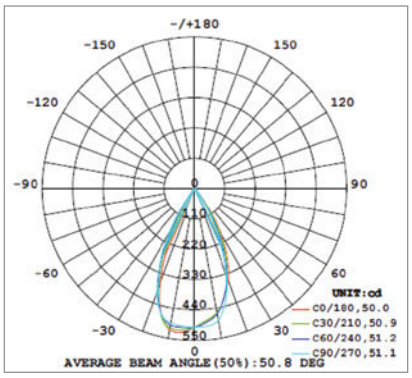


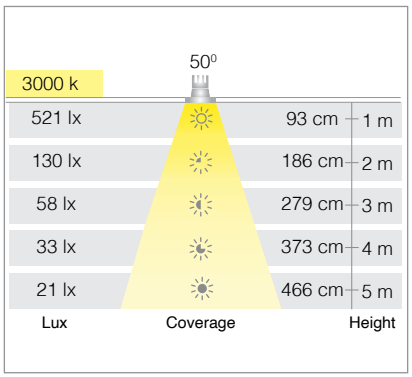
35° BEAM ANGLE





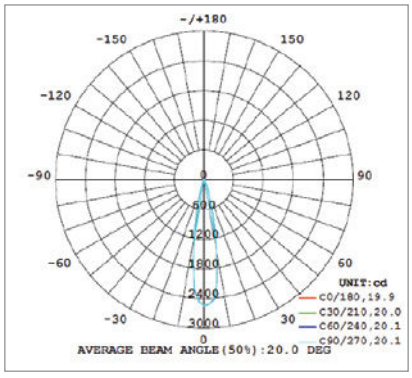
50° BEAM ANGLE

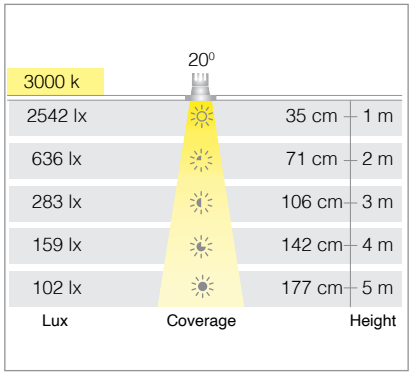




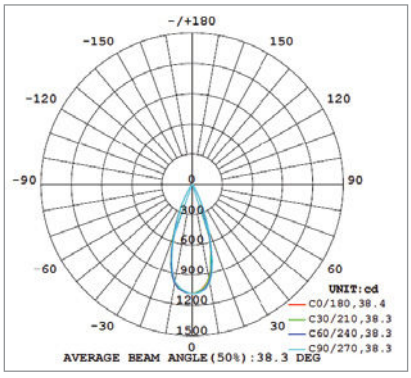
7W Luminaires

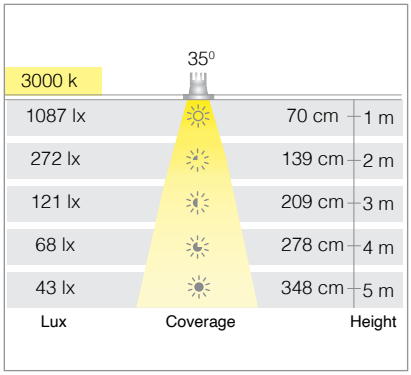
20° BEAM ANGLE



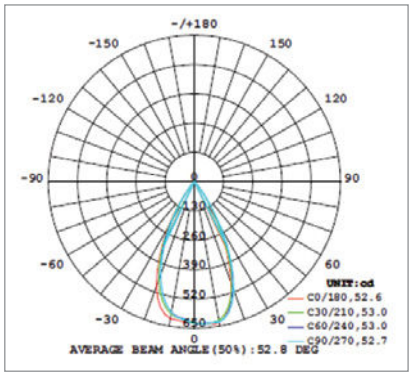


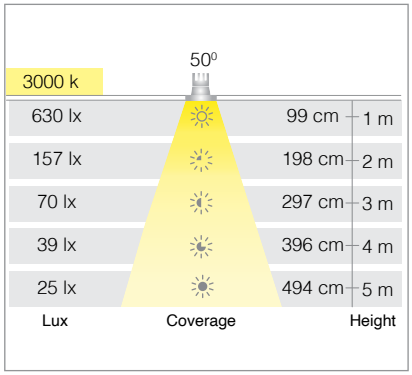
35° BEAM ANGLE





50° BEAM ANGLE





Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

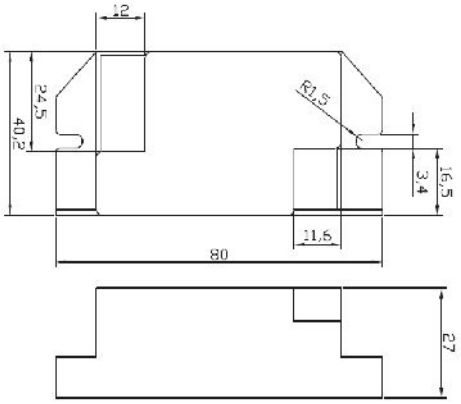
THE DELFT SERIES: CONSTANT CURRENT DRIVERS

KNIGHT 250, 5W - CONSTANT SINGLE CURRENT LED DRIVER, 250mA

IP20

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output



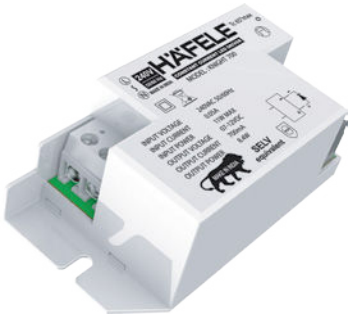


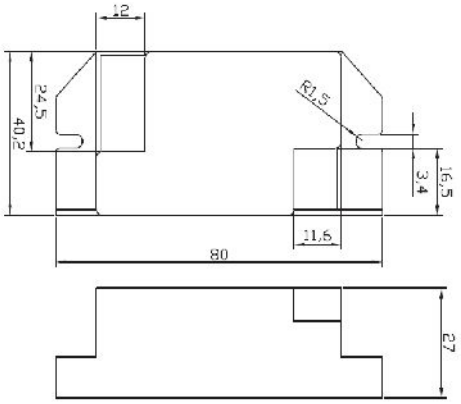
Technical Specifications	
Article No.	833.13.643
Input Voltage	240VAC ±10% 50Hz
Input Current	0.03A Max.
Input Power	6W Max.
Output Current	250mA
Output Voltage	9 - 18VDC
Output Power	4.5W
Power Factor	>0.85
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV DM)

KNIGHT 700 - CONSTANT SINGLE CURRENT LED DRIVER, 700mA

IP20

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output





Technical Specifications	
Article No.	833.30.969
Input Voltage	240VAC ±10% 50Hz
Input Current	0.06A Max.
Input Power	11W Max.
Output Current	700mA
Output Voltage	7 - 12VDC
Output Power	8.4W
Power Factor	>0.85
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3 kV DM)

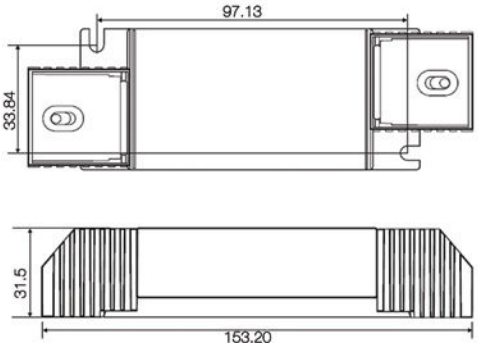
THE DELFT SERIES: CONSTANT CURRENT DRIVERS

DUKE 700 - CONSTANT MULTI-CURRENT LED DRIVER, 400mA, 500mA, 600mA, 700mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output





Technical Specifications	
Article No.	833.30.976
Input Voltage	240VAC ±20% 50Hz
Input Current	0.16A Max.
Input Power	36W Max.
Output Current	400mA, 500mA, 600mA, 700mA (±7%)
Output Voltage	30 - 43VDC
Output Power	30.1W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)

DUKE 700 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	700
ON	OFF	600
OFF	ON	500
OFF	OFF	400



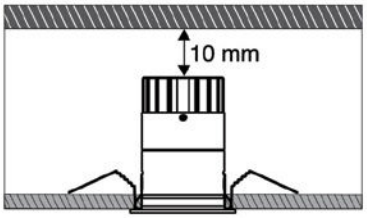
NOTE:

1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available.
3. The Delft series downlights allow automation by connecting to Dali compatible drivers.

THE DELFT SERIES: INSTALLATION DETAILS

GAP BETWEEN TRUE CEILING AND LUMINAIRE

5W
7W



Minimum 10 mm of gap from the true ceiling to the top edge of the luminaire is required for installation of all luminaires under the Delft series, irrespective of their wattage.

5 YEARS GUARANTEE*

THE DELFT SERIES: ORDERING INFORMATION

1. LIGHT ENGINE

Article No.	Wattage	Current	Colour Temperature	Beam angle	Dimensions (mm)
833.30.904	5W	250 mA	2700K	20°	Dia 41 x H 47
833.30.905	5W	250 mA	3000K	20°	Dia 41 x H 47
833.30.906	5W	250 mA	4000K	20°	Dia 41 x H 47
833.30.908	5W	250 mA	2700K	35°	Dia 41 x H 47
833.30.909	5W	250 mA	3000K	35°	Dia 41 x H 47
833.30.910	5W	250 mA	4000K	35°	Dia 41 x H 47
833.30.912	5W	250 mA	2700K	50°	Dia 41 x H 47
833.30.913	5W	250 mA	3000K	50°	Dia 41 x H 47
833.30.914	5W	250 mA	4000K	50°	Dia 41 x H 47
833.30.916	7W	700 mA	2700K	20°	Dia 41 x H 47
833.30.917	7W	700 mA	3000K	20°	Dia 41 x H 47
833.30.918	7W	700mA	4000K	20°	Dia 41 x H 47
833.30.920	7W	700mA	2700K	35°	Dia 41 x H 47
833.30.921	7W	700mA	3000K	35°	Dia 41 x H 47
833.30.922	7W	700mA	4000K	35°	Dia 41 x H 47
833.30.924	7W	700mA	2700K	50°	Dia 41 x H 47
833.30.925	7W	700mA	3000K	50°	Dia 41 x H 47
833.30.926	7W	700mA	4000K	50°	Dia 41 x H 47

2. HOUSING WITH MOUNTING BRACKET (SUITABLE FOR BOTH 5W/7W LUMINAIRES)

Article No.	Housing type	Mounting bracket type	Colour	Dimensions (mm)
833.30.928	Fixed	Trim	White	Dia 100 x H 29
833.30.929	Tiltable	Trim	White	Dia 100 x H 29
833.30.930	Fixed	Trim	Black	Dia 100 x H 29
833.30.931	Tiltable	Trim	Black	Dia 100 x H 29
833.30.932	Fixed	Trimless	White	Dia 90 x H 30
833.30.933	Tiltable	Trimless	White	Dia 90 x H 30
833.30.934	Fixed	Trimless	Black	Dia 90 x H 30
833.30.935	Tiltable	Trimless	Black	Dia 90 x H 30

3. DRIVERS

Article No.	Description	Current
833.13.643	Knight 250, 5W - Constant Single Current LED Driver, 250mA	250mA
833.30.969	Knight 700 - Constant Single Current LED Driver, 700mA	700mA
833.30.976	Duke 700 - Constant Multi-Current LED Driver, 400mA, 500mA, 600mA, 700mA	700mA Max.


HÄFELE
ARCHITECTURAL LIGHTS
ENCHANTRESS



HÄFELE
ARCHITECTURAL LIGHTS

OXFORD

The Oxford series, designed on the concept of modularization, delivers flexibility and a variety of options for the customer to choose from. Right from the type of application to output options, choice of beam angles and colour temperatures to shape, finish, mounting and housing type and glare reduction accessories, every minute detail of an Oxford luminaire can be customized as per your individual requirement.

Be it a spotlight, downlight or wall washer, the minimalist design theme of the series remains seamless and consistent across. The inherent deep baffle design and a low UGR (Unified Glare Rating) help enhance the visual clarity and provide comfortable aesthetics in the living spaces.

THE OXFORD SERIES: MODULARIZATION CONCEPT



LIGHT ENGINE



Heat Sink
Absorbs the heat generated by the light engine and then dissipates this heat into the surrounding ambient air.

LED Holder with LED Chip
Designed to mount the LED onto the fixture and to integrate it into the circuit.

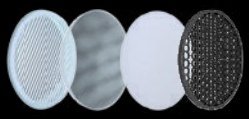
Lens
Amplifies the light output from the LED.

Rubber Gasket
Prevents proliferation of moisture and dust particles.



Lens Protector
Protects the lens from scratches and smudges ensuring an unhindered light output.

Glare Reduction Add-ons
Different louvers help achieve different light effects. They help reduce the glare and diffuse the beam angle.



Housing
Dissipates the heat that is emitted by the light engine and provides protection to the luminaire.

Fixed Tiltable Wall Washer







Mounting Bracket
Provides support to attach the luminaire to the false ceiling structure.

Trim



Trimless



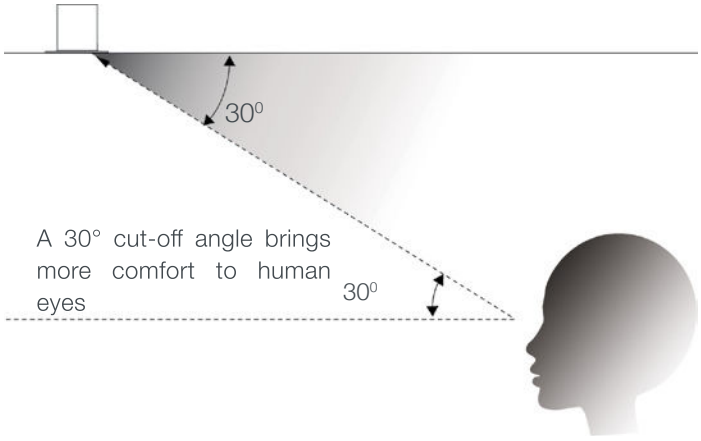
THE OXFORD SERIES: FEATURES

1. Modularization concept

The Oxford series delivers flexibility and a variety of options for the customer to choose from. The ordering process involves building on the light engine as per installation preference which not only provides customization but also ensures ease in stock keeping and management. Mentioned below are all the choices a customer can detail to arrive at a solution tailored to his/her specific requirements.

Types:	Spotlight, downlight and wall washer
Wattage options:	10W and 12W
Beam angles:	20°, 30°, 40°, and 50° (for 10W) 30°, 47°, 57° (for 12W), 32°, 42° 52° (20W)
Shape of the luminaire:	Round and Square
Colour of the luminaire	Black and White
Housing types:	Fixed, tiltable and wall washer
Mounting bracket installation:	Trim and trimless
Louver options:	Striped glass, woven glass, diffusion sheet and honeycomb louver
Colour temperature:	2700K, 3000K and 4000K

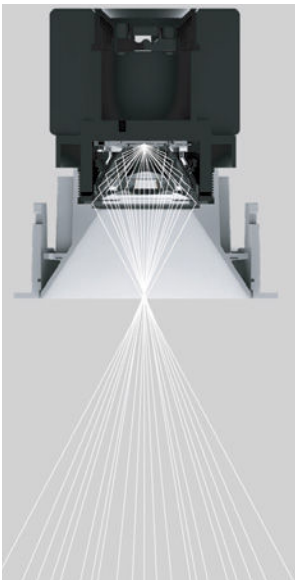
2. Low glare fixture



The greater the cut-off angle, the greater the visual comfort provided by the luminaire to the user due to glare* reduction. Designed with a 30° cut-off angle the luminaires from the Oxford Series ensure low glare function that helps create a soft visual effect.

*Glare is a visual sensation caused by excessive and uncontrolled brightness at the light source.

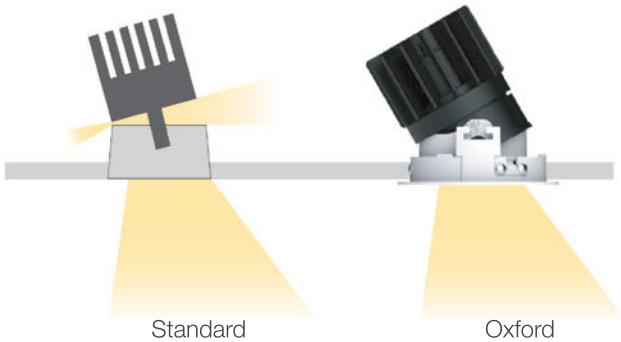
3. Deep baffle design



The deep baffle design of the Oxford luminaires helps reduce glare. Additionally, they are equipped with special lenses that provide multiple internal reflection points that ensure an evenly spread beam angle towards the centre.

4. Reduces light leakage

The tiltable luminaires from this series are constructed in a way that they prevent any kind of light leakage when in the tilt position. This ensures complete and uniform light output.



5. Unified Glare Rating (UGR) <19

The lower the UGR rating, the lower the glare. In order to achieve comfortable illumination in your living spaces, the UGR of the luminaires is recommended to be below 20 which is possible to achieve with the Oxford Series. UGR values range from 40 (extremely high glare) to 5 (very low glare).

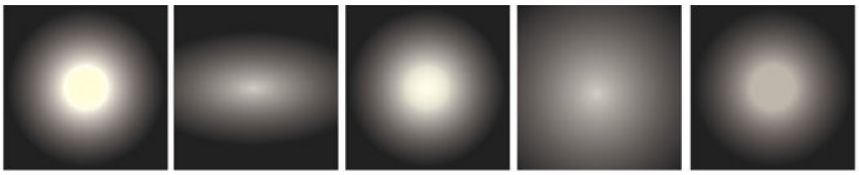


THE OXFORD SERIES: FEATURES





Striped Glass | Woven Glass | Diffusion Sheet | Honeycomb Louver



Standard Lens Protector (Transparent glass) | Striped Glass | Woven Glass | Diffusion Sheet | Honeycomb Louver

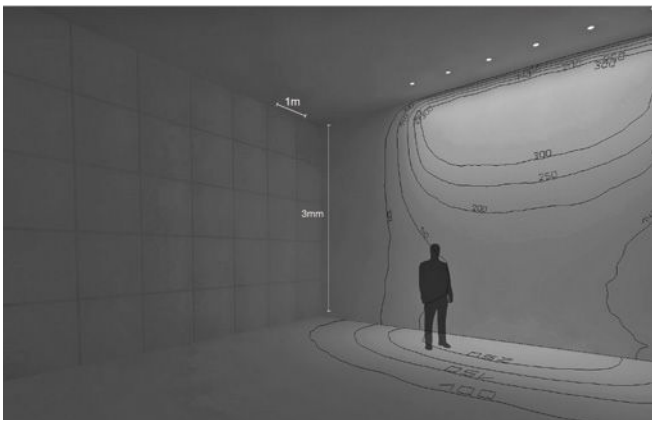
6. Glare reduction add-ons

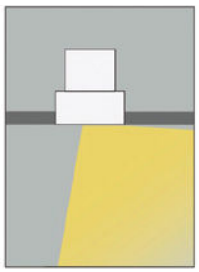
With numerous louver options to choose from, Oxford adds more flexibility and freedom for the lighting designer. The Honeycomb louver reduces glare; strip glass creates oval distribution; diffusion sheet & woven glass soften and spread the light.

7. Easy assembly

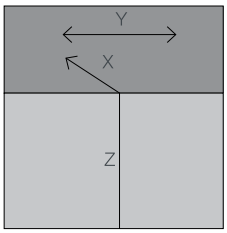


The luminaires from the Oxford Series follow the concept of plug-and-play and can be installed quickly and completely tool-free. Attach the mounting bracket to the false ceiling till the interior construction / renovation goes on. Once completed, simply connect the assembled luminaire to the driver lead and fix it into the mounting bracket.









Recommended Distances (Meter)
X : Y : Z = 0.45:0.45:3 (m)

8. Wall Washers

Oxford wall washers enable even illumination on the target wall without creating shadows. What needs to be taken into consideration for a clean light output is the distance of the wall washer from the wall (X) and the distance between two wall washers (Y). For Oxford, the recommended distance between X, Y and Z is 0.45:0.45:3

The special housing of these luminaires not only broadens the illumination effect with a seamless light flow but also makes the entire area brighter. They are designed not just to lighten up the wall but also the floors, which sets the wall washers from this range apart from those available in the market. The reflecting component in the housing ensures minimal loss of light output ensuring a uniform throw onto the wall and floor.

X: Height from wall washer to the wall
Y: Distance between two wall washers
Z: Ceiling height

THE OXFORD SERIES: DECODING THE NOMENCLATURE

Oxford	10W	.3A	TLT	RD	TR	30°	30K	WH
	1	2	3	4	5	6	7	8

Number	Category	Abbreviation	Possibilities
1	Output	W	10 Watts
			12 Watts
2	Current	.25A	250mA
		.3A	300mA
3	Housing type	TLT	Tilt
		DL	Fixed Downlight
		WW	Wall Washer
4	Shape	RD	Round
		SQ	Square
5	Mounting Bracket Type	TR	Trim
		TL	Trimless
6	Beam Angle	°	20°, 30°, 40°, 50° (for 10W) 30°, 47°, 57° (for 12W) 32°, 42°, 52° (for 20W)
7	Colour Temperature	27 K	2700 K
		30 K	3000 K
		40 K	4000 K
8	Finish	WH	White
		BLK	Black

THE OXFORD SERIES: RANGE SPECIFICATIONS

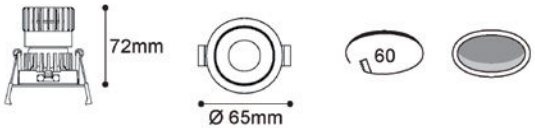
Luminaire type	Spotlight, Downlight and Wall Washer
Colour temperature	2700K, 3000K, 4000K
CRI	>95
Wattage	10W, 12W
Current	250mA (10W), 300mA (12W)
Lumen output at source (lm/W) for 3000K luminaire	82 lm/W (10W), 125 lm/W (12W)
Maximum ambient temperature	45° C
Material	Die cast Aluminium
Beam angle	20°, 30°, 40°, 50° (10W), 30°, 47°, 57° (12W), 32°, 42°, 52° (20W)
Housing colour	Black
Average rated life	> 60,000 hrs.
Mounting technique	Recess
Degree of protection	IP44
Energy efficiency class	Class II
Certification	BIS (Bureau of Indian Standards)
Application	Indoor: Bed rooms, living rooms, galleries, showcases, conference rooms, restaurants, hotel rooms

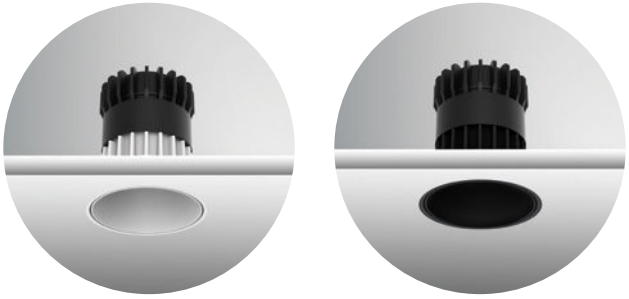
THE OXFORD SERIES: RANGE SPECIFICATIONS

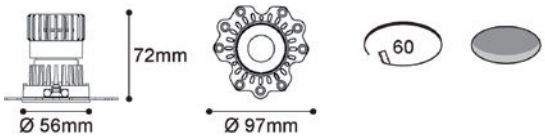
FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND







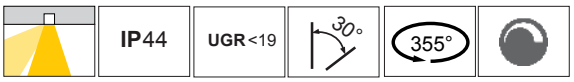




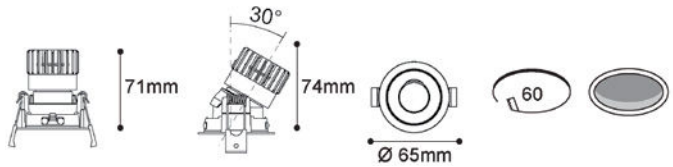
Housing type	Fixed
Description	Oxford RD TR
Mounting brackets	Trim
Wattage	10W
Current	250mA
Beam angle	20^0, 30^0, 40^0, 50^0
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W

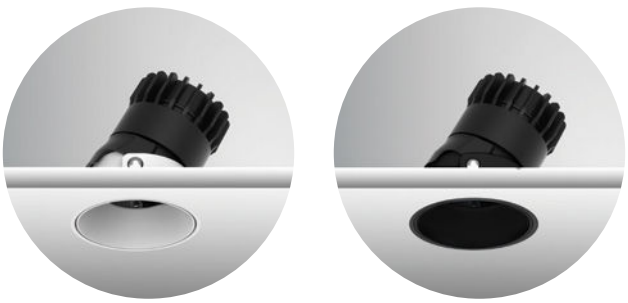
Housing type	Fixed
Description	Oxford RD TL
Mounting brackets	Trimless
Wattage	10W
Current	250mA
Beam angle	20^0, 30^0, 40^0, 50^0
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W

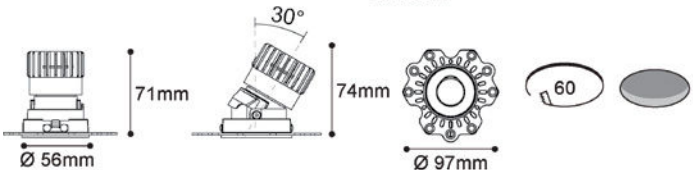
TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND











Housing type	Tiltable
Description	Oxford TLT RD TR
Mounting brackets	Trim
Wattage	10W
Current	250mA
Beam angle	20^0, 30^0, 40^0, 50^0
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W

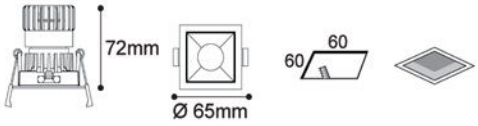
Housing type	Tiltable
Description	Oxford TLT RD TL
Mounting brackets	Trimless
Wattage	10W
Current	250mA
Beam angle	20^0, 30^0, 40^0, 50^0
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W

THE OXFORD SERIES: RANGE SPECIFICATIONS

FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - SQUARE

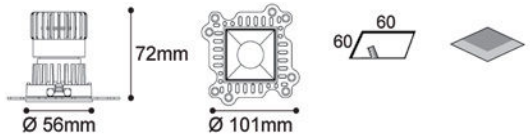
IP44 | UGR <19 | 10W



Housing type	Fixed
Description	Oxford SQ TR
Mounting brackets	Trim
Wattage	10W
Current	250mA
Beam angle	20°, 30°, 40°, 50°
Housing Colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W



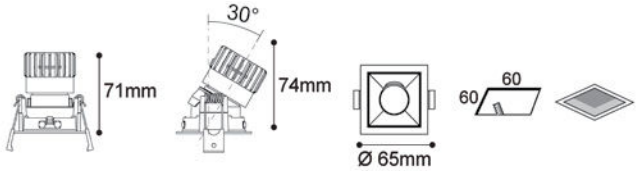



Housing type	Fixed
Description	Oxford SQ TL
Mounting brackets	Trimless
Wattage	10W
Current	250mA
Beam angle	20°, 30°, 40°, 50°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - SQUARE

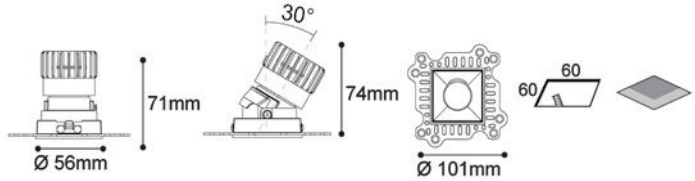
IP44 | UGR <19 | 30° | 10W



Housing type	Tiltable
Description	Oxford TLT SQ TR
Mounting brackets	Trim
Wattage	10W
Current	250mA
Beam angle	20°, 30°, 40°, 50°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W



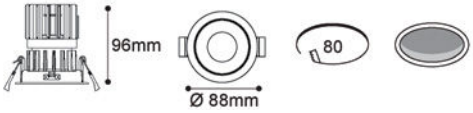
Housing type	Tiltable
Description	Oxford TLT SQ TL
Mounting brackets	Trimless
Wattage	10W
Current	250mA
Beam angle	20°, 30°, 40°, 50°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	82 lm/W

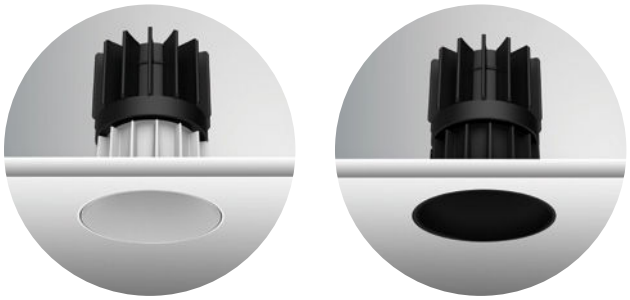
THE OXFORD SERIES: RANGE SPECIFICATIONS

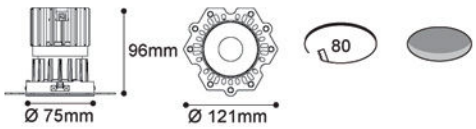
FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND







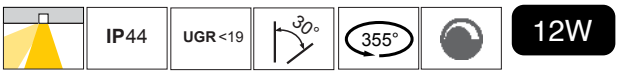




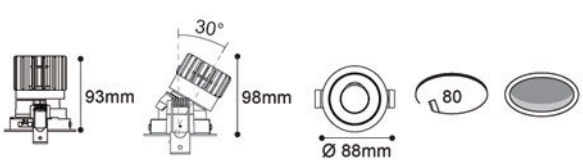
Housing type	Fixed
Description	Oxford RD TR
Mounting brackets	Trim
Wattage	12W
Current	300mA
Beam angle	30⁰, 47⁰, 57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

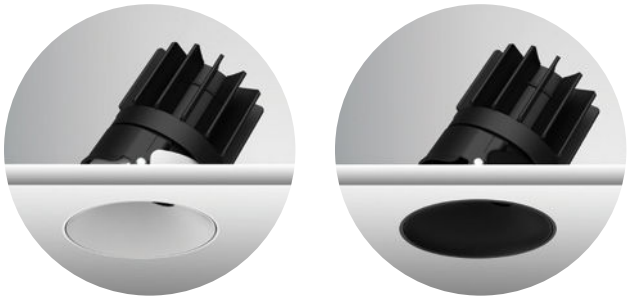
Housing type	Fixed
Description	Oxford RD TL
Mounting brackets	Trimless
Wattage	12W
Current	300mA
Beam angle	30⁰, 47⁰, 57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

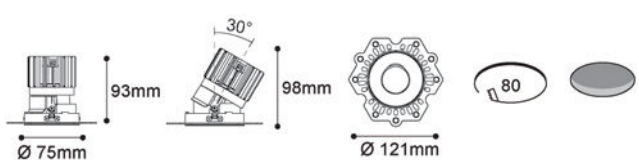
TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND











Housing type	Tiltable
Description	Oxford TLT RD TR
Mounting brackets	Trim
Wattage	12W
Current	300mA
Beam angle	30⁰, 47⁰, 57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

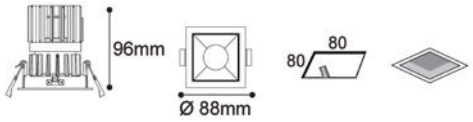
Housing type	Tiltable
Description	Oxford TLT RD TL
Mounting brackets	Trimless
Wattage	12W
Current	300mA
Beam angle	30⁰, 47⁰, 57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

THE OXFORD SERIES: RANGE SPECIFICATIONS

FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - SQUARE

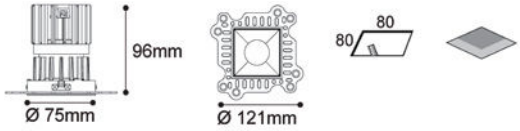
IP44 | UGR <19 | 12W



Housing Type	Fixed
Mounting Brackets	Trim
Description	Oxford SQ TR
Wattage	12W
Current	300mA
Beam Angle	30⁰, 47⁰, 57⁰
Body Colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W



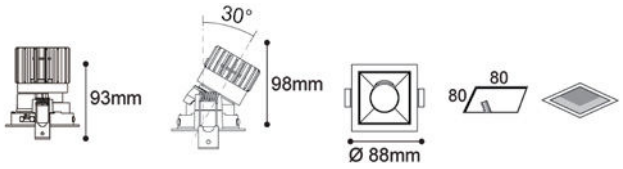



Housing Type	Fixed
Mounting Brackets	Trimless
Description	Oxford SQ TL
Wattage	12W
Current	300mA
Beam Angle	30⁰, 47⁰, 57⁰
Body Colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - SQUARE

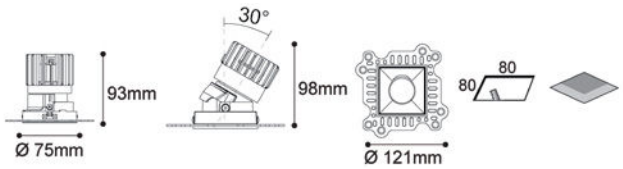
IP44 | UGR <19 | 30° | 12W



Housing type	Tiltable
Description	Oxford TLT SQ TR
Mounting brackets	Trim
Wattage	12W
Current	300mA
Beam angle	30⁰, 47⁰, 57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W



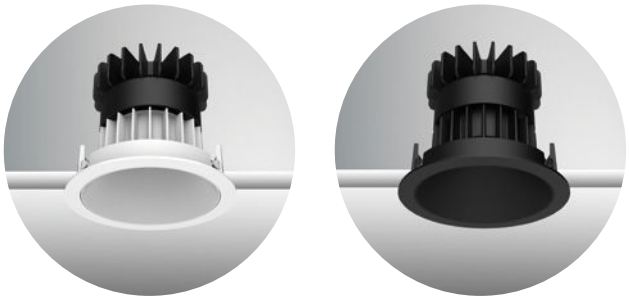



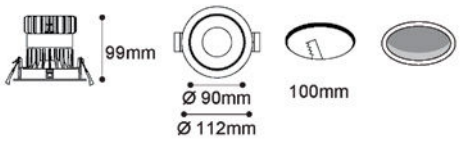
Housing type	Tiltable
Description	Oxford TLT SQ TL
Mounting brackets	Trimless
Wattage	12W
Current	300mA
Beam angle	30⁰, 47⁰, 57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

THE OXFORD SERIES: RANGE SPECIFICATIONS

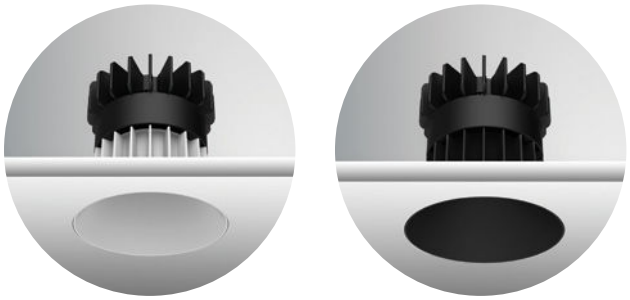
FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

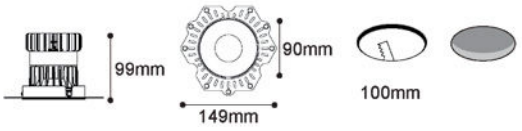






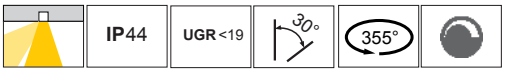
Housing type	Fixed
Description	Oxford RD TR
Mounting brackets	Trim
Wattage	20W
Current	500mA
Beam angle	32⁰, 42⁰, 52⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	88 lm/W

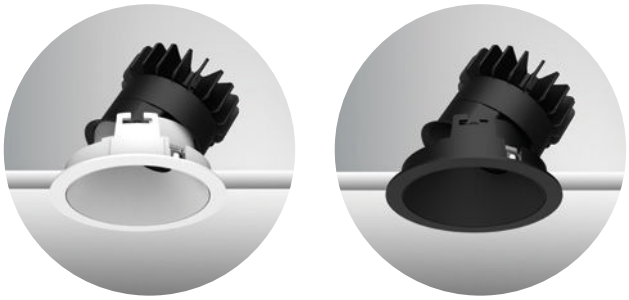


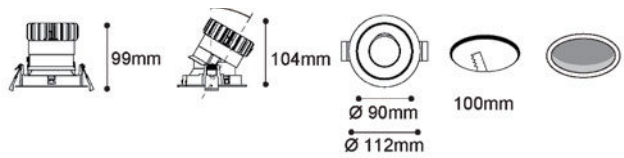


Housing type	Fixed
Description	Oxford RD TL
Mounting brackets	Trimless
Wattage	20W
Current	500mA
Beam angle	32⁰, 42⁰, 52⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	88 lm/W

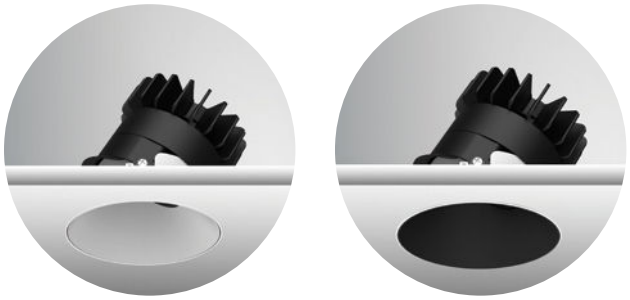
TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

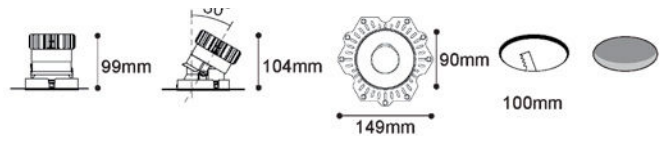






Housing type	Tiltable
Description	Oxford TLT RD TR
Mounting brackets	Trim
Wattage	20W
Current	500mA
Beam angle	32⁰, 42⁰, 52⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	88 lm/W



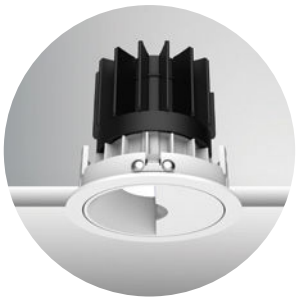


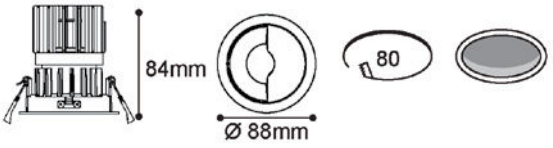
Housing type	Tiltable
Description	Oxford TLT RD TL
Mounting brackets	Trimless
Wattage	20W
Current	500mA
Beam angle	32⁰, 42⁰, 52⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	88 lm/W

THE OXFORD SERIES: RANGE SPECIFICATIONS

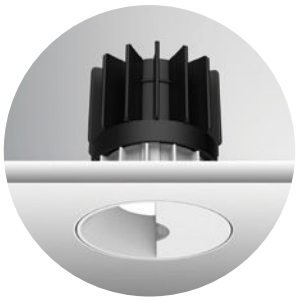
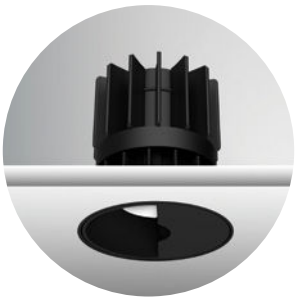
FIXED RECESSED WALL WASHERS - ROUND

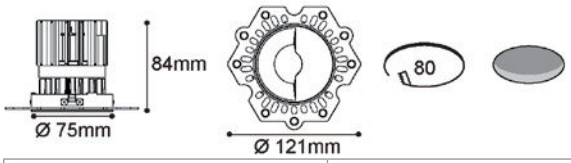
IP44 | 355° | 12W



Housing type	Fixed
Description	Oxford WW RD TR
Mounting brackets	Trim
Wattage	12W
Current	300mA
Beam angle	57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

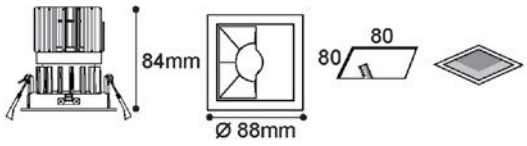


Housing type	Fixed
Description	Oxford WW RD TL
Mounting brackets	Trimless
Wattage	12W
Current	300mA
Beam angle	57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

FIXED RECESSED WALL WASHERS - SQUARE

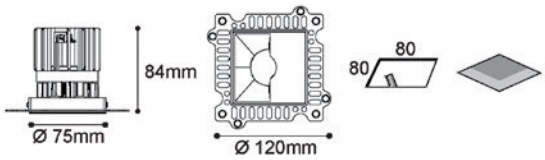
IP44 | 12W



Housing type	Fixed
Description	Oxford WW SQ TR
Mounting brackets	Trim
Wattage	12W
Current	300mA
Beam angle	57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

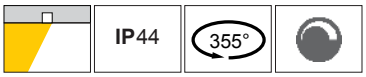


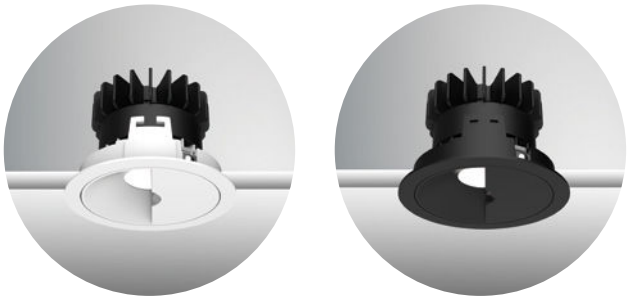
Housing type	Fixed
Description	Oxford WW SQ TL
Mounting brackets	Trimless
Wattage	12W
Current	300mA
Beam angle	57⁰
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	125 lm/W

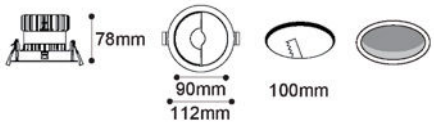
THE OXFORD SERIES: RANGE SPECIFICATIONS

FIXED RECESSED WALL WASHERS - ROUND

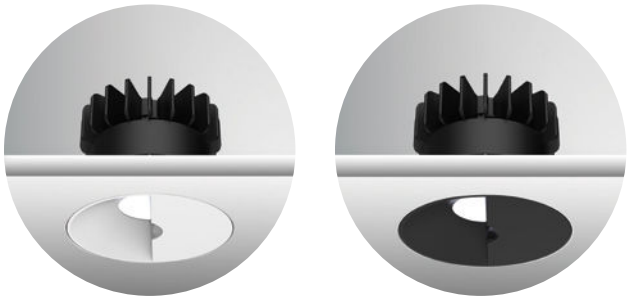


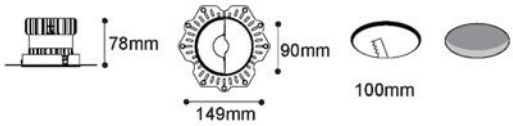
20W





Housing type	Fixed
Description	Oxford RD TR
Mounting brackets	Trim
Wattage	20W
Current	500mA
Beam angle	52^0
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	88 lm/W





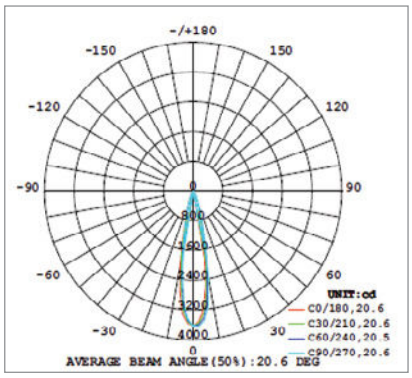
Housing type	Fixed
Description	Oxford RD TL
Mounting brackets	Trimless
Wattage	20W
Current	500mA
Beam angle	52^0
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire	88 lm/W

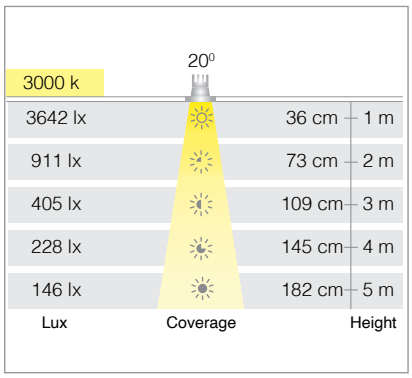
5 YEARS GUARANTEE*

THE OXFORD SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

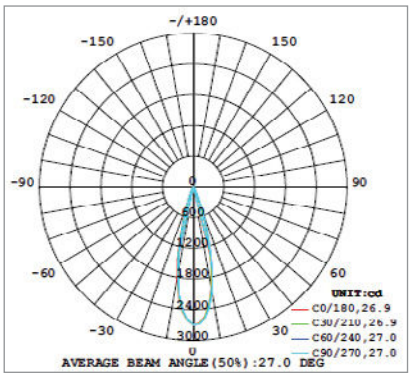
10W Luminaires

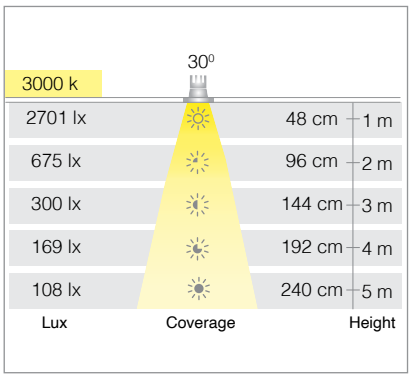
20° BEAM ANGLE



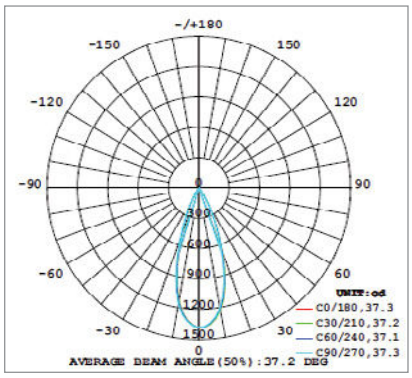


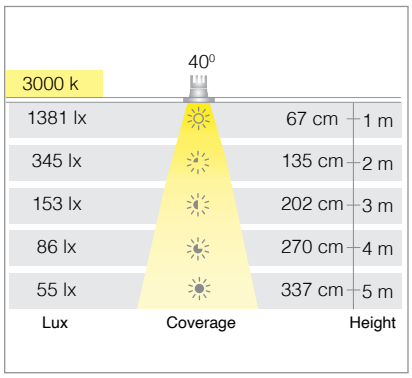
30° BEAM ANGLE



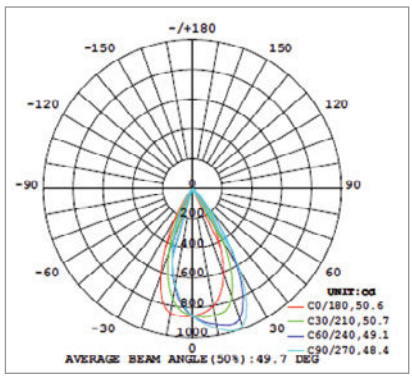


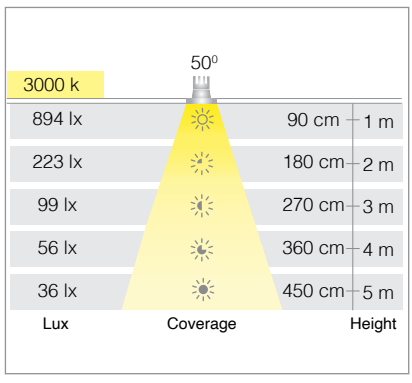
40° BEAM ANGLE





50° BEAM ANGLE



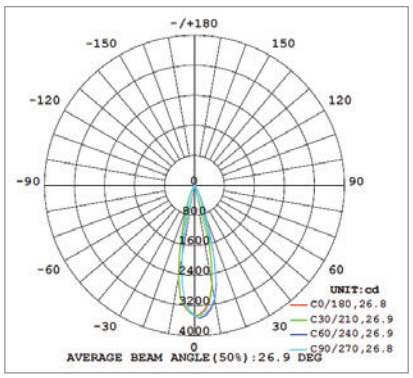


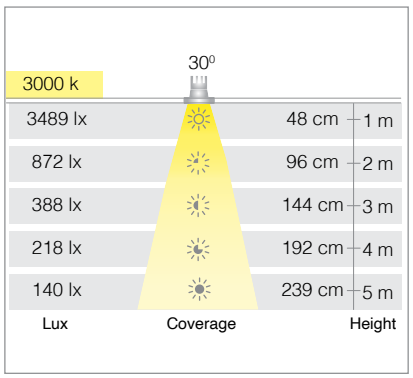
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE OXFORD SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

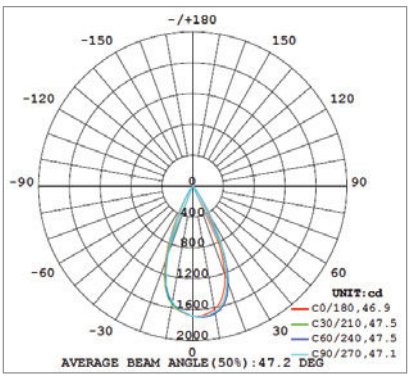
12W Luminaires

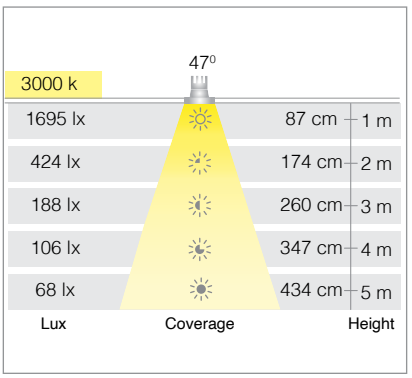
30° BEAM ANGLE



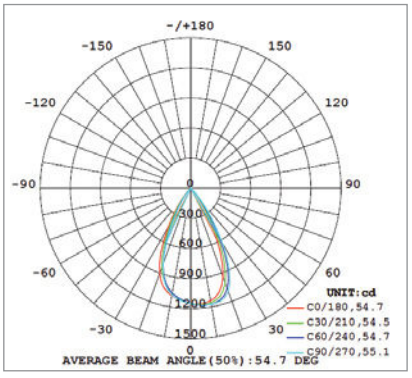


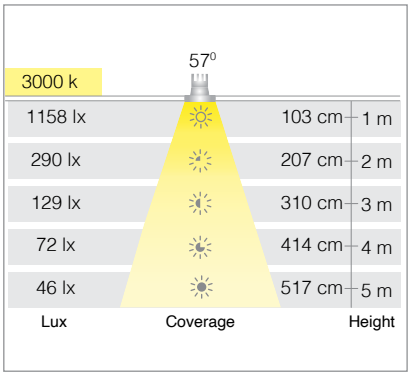
47° BEAM ANGLE





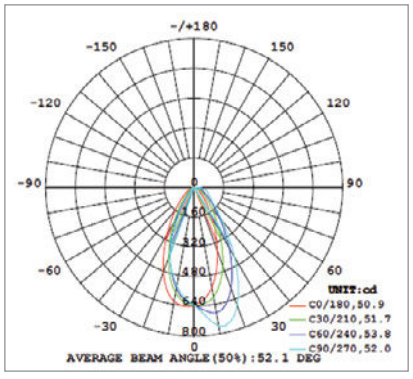
57° BEAM ANGLE

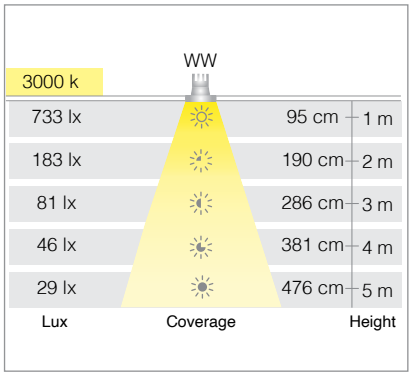




12W Luminaires

WALL WASHER



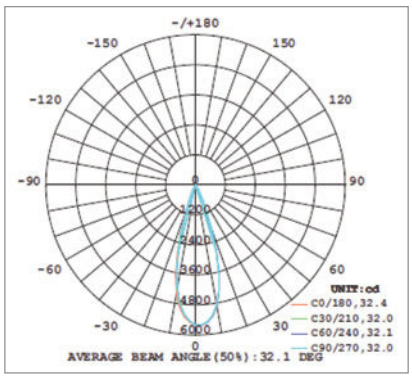


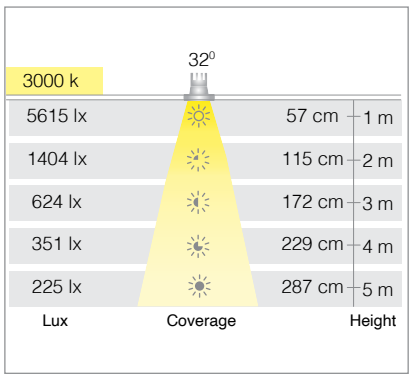
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE OXFORD SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

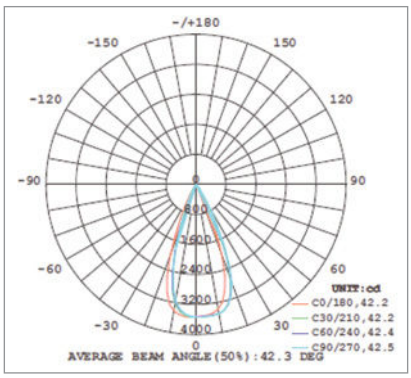
20W Luminaires

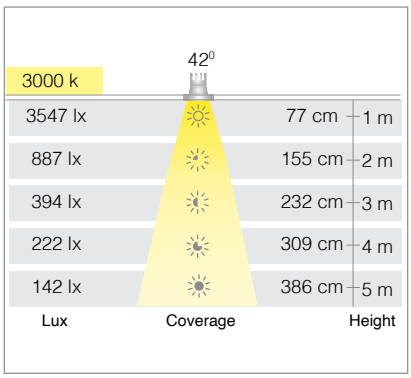
32° BEAM ANGLE



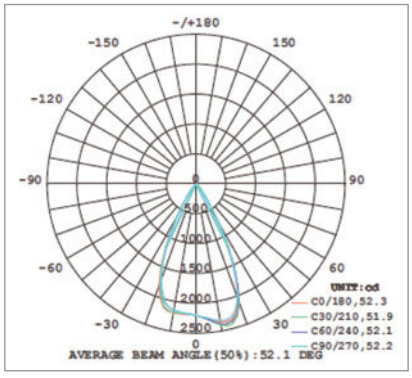


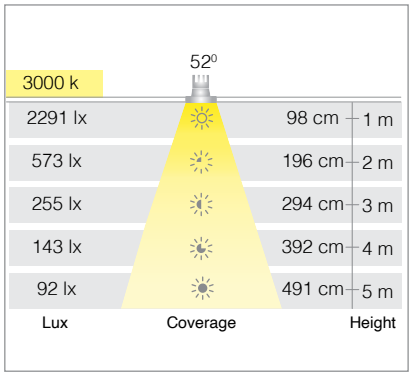
42° BEAM ANGLE





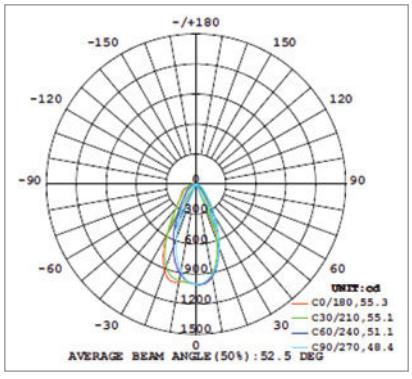
52° BEAM ANGLE

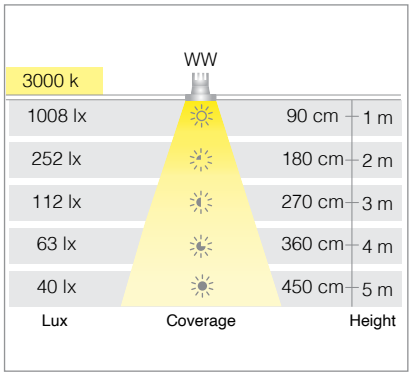




20W Luminaires

WALL WASHER





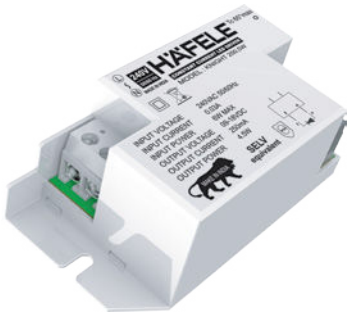
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

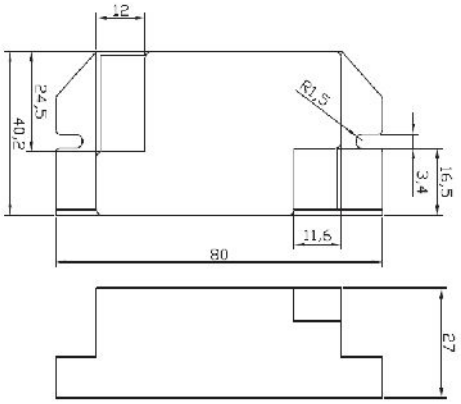
THE OXFORD SERIES: CONSTANT CURRENT DRIVERS

KNIGHT 250, 10W - CONSTANT SINGLE CURRENT LED DRIVER, 250mA

IP20

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output



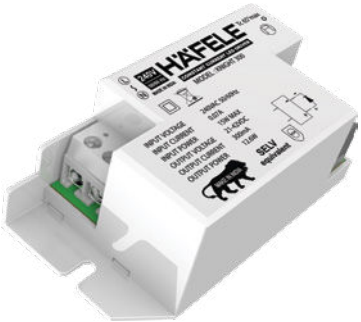


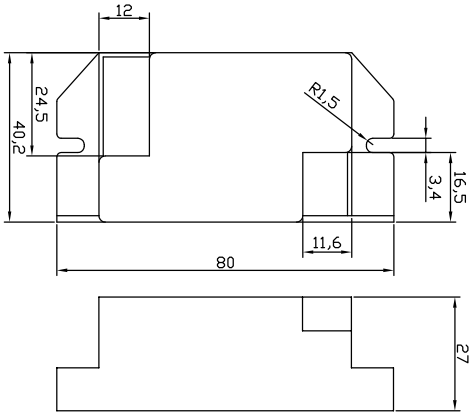
Technical Specifications	
Article No.	833.30.974
Input Voltage	240VAC ±10% 50 Hz
Input Current	0.06A Max.
Input Power	13W Max.
Output Current	250mA
Output Voltage	21 - 42VDC
Output Power	10W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV DM)

KNIGHT 300 - CONSTANT SINGLE CURRENT LED DRIVER, 300mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.





Technical Specifications	
Article No.	833.30.972
Input Voltage	240Vac ±10%,50/60Hz
Input Current	0.07A Max.
Input Power	15W Max.
Output Current	300mA
Output Voltage	21 - 42VDC
Output Power	12.6W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)

THE OXFORD SERIES: CONSTANT CURRENT DRIVERS

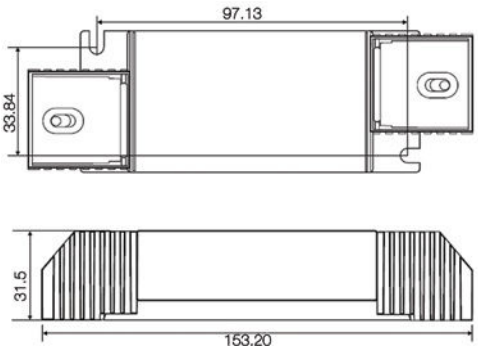
DUKE 500 - CONSTANT MULTI-CURRENT LED DRIVER, 250mA, 350mA, 450mA, 500mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.973
Input Voltage	240VAC ±20% 50Hz
Input Current	0.11A Max.
Input Power	27W Max.
Output Current	250mA, 350mA, 450mA, 500mA (±7%)
Output Voltage	33 - 43VDC
Output Power	22W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)



DUKE 500 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	500
ON	OFF	450
OFF	ON	350
OFF	OFF	250

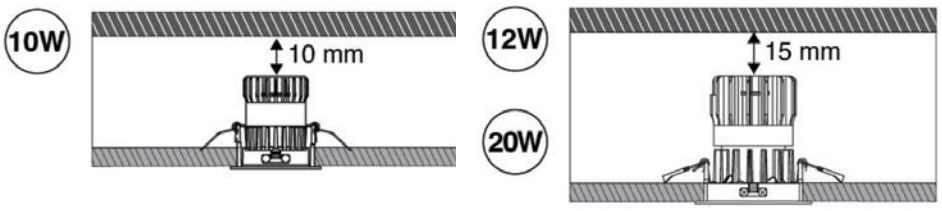


NOTE:

1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available.
3. The Oxford series downlights allow automation by connecting to Dali compatible drivers.

THE OXFORD SERIES: INSTALLATION DETAILS

GAP BETWEEN TRUE CEILING AND LUMINAIRE



A minimum gap of 10 mm for 10W Oxford luminaires and 15 mm for 12W and 20W Oxford luminaires from the true ceiling to the top edge of the luminaire is required for perfect installation.

THE OXFORD SERIES: ORDERING INFORMATION

1. LIGHT ENGINE

Article No.	Wattage	Current	Beam Angle	Colour Temperature	Dimensions (mm)
833.30.000	10W	250mA	20°	2700K	Dia 47 x H 49
833.30.001	10W	250mA	20°	3000K	Dia 47 x H 49
833.30.002	10W	250mA	20°	4000K	Dia 47 x H 49
833.30.004	10W	250mA	30°	2700K	Dia 47 x H 49
833.30.005	10W	250mA	30°	3000K	Dia 47 x H 49
833.30.006	10W	250mA	30°	4000K	Dia 47 x H 49
833.30.008	10W	250mA	40°	2700K	Dia 47 x H 49
833.30.009	10W	250mA	40°	3000K	Dia 47 x H 49
833.30.010	10W	250mA	40°	4000K	Dia 47 x H 49
833.30.012	10W	250mA	50°	2700K	Dia 47 x H 49
833.30.013	10W	250mA	50°	3000K	Dia 47 x H 49
833.30.014	10W	250mA	50°	4000K	Dia 47 x H 49
833.30.016	12W	300mA	30°	2700K	Dia 65 x H 69
833.30.017	12W	300mA	30°	3000K	Dia 65 x H 69
833.30.018	12W	300mA	30°	4000K	Dia 65 x H 69
833.30.020	12W	300mA	47°	2700K	Dia 65 x H 69
833.30.021	12W	300mA	47°	3000K	Dia 65 x H 69
833.30.022	12W	300mA	47°	4000K	Dia 65 x H 69
833.30.024	12W	300mA	57°	2700K	Dia 65 x H 69
833.30.025	12W	300mA	57°	3000K	Dia 65 x H 69
833.30.026	12W	300mA	57°	4000K	Dia 65 x H 69
833.30.846	20W	500mA	32°	3000K	Dia 83 x H 59
833.30.847	20W	500mA	32°	4000K	Dia 83 x H 59
833.30.279	20W	500mA	42°	3000K	Dia 83 x H 59
833.30.283	20W	500mA	42°	4000K	Dia 83 x H 59
833.30.284	20W	500mA	52°	3000K	Dia 83 x H 59
833.30.285	20W	500mA	52°	4000K	Dia 83 x H 59

2. HOUSING

Article No.	Wattage	Housing Type	Colour	Shape	Dimensions (mm)
833.30.028	10W	Fixed	White	Round	Dia 52 x H 35
833.30.032	10W	Tiltable	White	Round	Dia 52 x H 35
833.30.029	10W	Fixed	Black	Round	Dia 52 x H 35
833.30.033	10W	Tiltable	Black	Round	Dia 52 x H 35
833.30.030	10W	Fixed	White	Square	51 x 51 x 35
833.30.034	10W	Tiltable	White	Square	51 x 51 x 35
833.30.031	10W	Fixed	Black	Square	51 x 51 x 35
833.30.035	10W	Tiltable	Black	Square	51 x 51 x 35
833.30.044	12W	Fixed	White	Round	Dia 71 x H 43
833.30.048	12W	Tiltable	White	Round	Dia 71 x H 43
833.30.045	12W	Fixed	Black	Round	Dia 52 x H 35

THE OXFORD SERIES: ORDERING INFORMATION

2. HOUSING

Article No.	Wattage	Housing Type	Colour	Shape	Dimensions (mm)
833.30.049	12W	Tiltable	Black	Round	Dia 52 x H 35
833.30.046	12W	Fixed	White	Square	70 x 70 x 45
833.30.050	12W	Tiltable	White	Square	70 x 70 x 45
833.30.047	12W	Fixed	Black	Square	70 x 70 x 45
833.30.051	12W	Tiltable	Black	Square	70 x 70 x 45
833.30.286	20W	Fixed	White	Round	Dia 90 x H 53
833.30.288	20W	Tiltable	White	Round	Dia 90 x H 53
833.30.287	20W	Fixed	Black	Round	Dia 90 x H 53
833.30.280	20W	Tiltable	Black	Round	Dia 90 x H 53
833.30.060	12W	Wall Washer	White	Round	Dia 71 x H 35
833.30.062	12W	Wall Washer	White	Square	70 x 70 x 35
833.30.061	12W	Wall Washer	Black	Round	Dia 71 x H 35
833.30.063	12W	Wall Washer	Black	Square	70 x 70 x 35
833.30.291	20W	Wall Washer	White	Round	Dia 90 x H 53
833.30.292	20W	Wall Washer	Black	Round	Dia 90 x H 53

3. LOUVERS / GLARE REDUCTION ADD-ONS

Article No.	Description	Wattage
833.13.573	Diffusion Sheet	10W
833.13.574	Diffusion Sheet	12W
833.13.564	Honeycomb Louver	10W
833.13.565	Honeycomb Louver	12W
833.13.560	Striped Glass	10W
833.13.561	Striped Glass	12W
833.13.569	Woven Glass	10W
833.13.570	Woven Glass	12W

4. MOUNTING BRACKET

Article No.	Wattage	Mounting Bracket Type	Colour	Shape	Dimensions (mm)
833.30.036	10W	Trim	White	Round	Dia 77 x H 51
833.30.038	10W	Trimless	White	Round	Dia 110 x H 18
833.30.037	10W	Trim	Black	Round	Dia 77 x H 51
833.30.039	10W	Trimless	Black	Round	Dia 110 x H 18
833.30.040	10W	Trim	White	Square	77 x 66 x 51
833.30.042	10W	Trimless	White	Square	102 x 102 x 15
833.30.041	10W	Trim	Black	Square	77 x 66 x 51
833.30.043	10W	Trimless	Black	Square	102 x 102 x 15
833.30.052	12W	Trim	White	Round	Dia 100 x H 50
833.30.054	12W	Trimless	White	Round	Dia 122 x H 18
833.30.053	12W	Trim	Black	Round	Dia 100 x H 50
833.30.055	12W	Trimless	Black	Round	Dia 122 x H 18

THE OXFORD SERIES: ORDERING INFORMATION

4. MOUNTING BRACKET

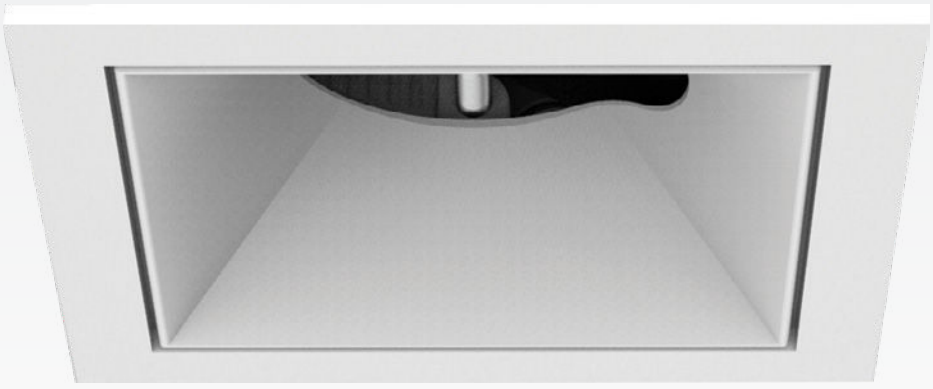
Article No.	Wattage	Mounting Bracket Type	Colour	Shape	Dimensions (mm)
833.30.056	12W	Trim	White	Square	100 x 100 x 50
833.30.058	12W	Trimless	White	Square	125 x 125 x 18
833.30.057	12W	Trim	Black	Square	100 x 100 x 50
833.30.059	12W	Trimless	Black	Square	125 x 125 x 18
833.30.081	20W	Trim	White	Round	Dia 112 x 51
833.30.089	20W	Trimless	White	Round	Dia 149 x 20
833.30.082	20W	Trim	Black	Round	Dia 112 x 51
833.30.090	20W	Trimless	Black	Round	Dia 149 x 20

5. DRIVERS

Article No.	Description	Current
833.30.974	Knight 250, 10W Constant Current LED Driver	250mA
833.30.972	Knight 300 Constant Current LED Driver, 300mA	300mA
833.30.973	Duke 500 - Constant Multi-Current LED Driver, 250mA, 350mA, 450mA, 500mA	500mA Max.







HÄFELE™
ARCHITECTURAL LIGHTS



STANFORD

Designed on the concept of modularization, Häfele's Stanford series offers you customization options like never before. The ordering process involves selecting the type of Light Engine, Baffle and Mounting Bracket, enabling the series to offer 42 different luminaire combinations. Selections in terms of wattage, beam angle, tilt angle and shape give you unmatched possibilities in ensuring a unified look for your interiors. The 7 trendy baffle colour options provide creative flexibility for incorporating elegant pops of colour that effortlessly highlight your ceiling or provide a seamless look that immaculately blends with your interior design.

The luminaires from the Stanford Series are suitable for use as spotlights and downlights. They have a low UGR (Unified Glare Rating) which enhances the visual clarity and provides comfortable aesthetics in the living spaces. With easy installation and wide customization options, the Stanford series is your ideal solution for contemporary aesthetics.


HÄFELE™
ARCHITECTURAL LIGHTS

THE STANFORD SERIES: MODULARIZATION CONCEPT



LIGHT ENGINE



Heat Sink
Absorbs the heat generated by the light engine and dissipates it into the environment, maintaining the required operating temperature.

LED Holder with LED Chip
Designed to mount the LED onto the fixture and to integrate it into the circuit.

Lens
Amplifies the light output from the LED.

Rubber Gasket
Prevents proliferation of moisture and dust particles.



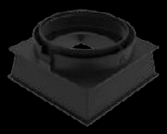
Lens Protector
Protects the lens from scratches and smudges ensuring an unhindered light output.



Glare Reduction Add-ons
Different louvers help achieve different light effects. They help reduce the glare and diffuse the beam angle.



Round



Square



BAFFLE
Round or Square
Available in the following colours:

- White
- Black (Matt)
- Piano Black (Glossy)
- Gold
- Champagne
- Chrome
- Bronze

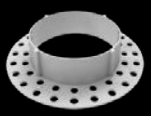
Square



Round



Trim



Trimless



MOUNTING BRACKET
Provides support to attach the luminaire to the false ceiling structure.

THE STANFORD SERIES: FEATURES

1. Modularization concept



Light Engine



Baffle



Mounting Bracket

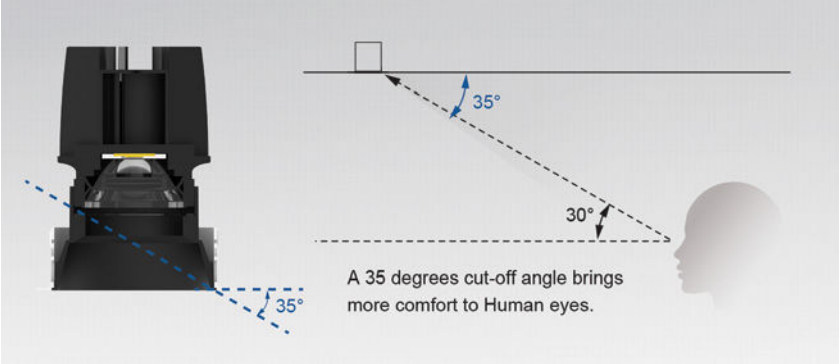
The Stanford series has been designed keeping flexibility in mind to give the customer a variety of options to choose from. The ordering process involves building up the luminaire by selecting different components as per your installation requirements. This modularization concept of selecting the type of Light Engine, Baffle and Mounting Bracket enables Stanford series to offer 42 different luminaire combinations.

2. Wide range of colour options

The Stanford Series offers 7 trendy baffle colour option for you to choose from. These options provide creative flexibility for incorporating elegant pops of colour that effortlessly highlight your ceiling or provide a seamless look that immaculately blends with your interior space.

- White
- Champagne
- Black (Matt)
- Chrome
- Piano Black (Glossy)
- Bronze
- Gold

3. Low glare fixture



The greater the cut-off angle, the greater the visual comfort provided by the luminaire to the user due to glare* reduction. Designed with a 35° cut-off angle, the luminaires from the Stanford Series ensure lower glare function that helps create a soft visual effect.

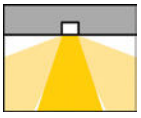
*Glare is a visual sensation caused by excessive and uncontrolled brightness at the light source.

4. Unified Glare Rating (UGR) <19

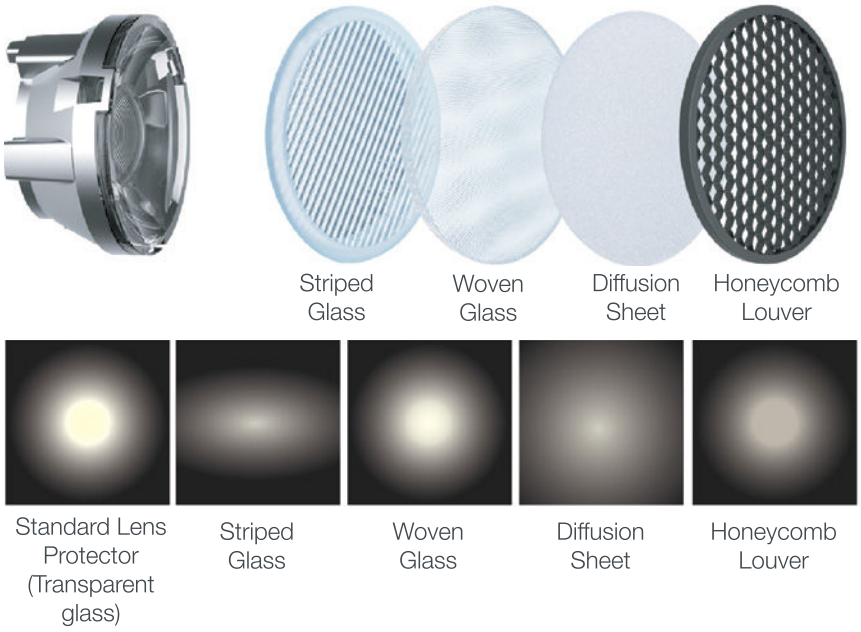
The lower the UGR rating, the lower the glare. In order to achieve comfortable illumination in your living spaces, the UGR of the luminaires is recommended to be below 20 which is possible to achieve with the Stanford Series. UGR values range from 40 (extremely high glare) to 5 (very low glare).

5. Tiltable on both sides

Stanford series luminaires can be tilted on either sides. Additionally you can change and adjust the tilt angle effortlessly even after the luminaire has been installed which ensures flexibility.



THE STANFORD SERIES: FEATURES



6. Glare reduction add-ons:

With numerous louver options to choose from, Stanford adds more flexibility and freedom for the lighting designer. The Honeycomb louver reduces glare, striped glass creates oval distribution, diffusion sheet and woven glass soften and spread the light.

7. Easy assembly



The luminaires from the Stanford Series follow the concept of plug and play and can be installed quickly and completely tool free. All you need to do is to assemble the luminaire by selecting the light engine, baffle and mounting bracket. Attach the mounting bracket to the false ceiling till the interior construction/renovation goes on. Once completed, simply connect the assembled luminaire to the driver lead and fix it into the mounting bracket.

Note: The images used above are for representational purposes only and for easy understanding of the assembly process. The Stanford series luminaires come with different design aesthetics.

THE STANFORD SERIES: DECODING THE NOMENCLATURE

Stanford	9W	.2A	RD	TR	15°	27K	WH	GD
	1	2	3	4	5	6	7	8

Number	Category	Abbreviation	Possibilities
1	Output	W	9 Watts
			12 Watts
			14 Watts
2	Current	.2A	200mA
		.3A	300mA
		.35A	350mA
3	Baffle Shape	RD	Round
		SQ	Square
4	Mounting Bracket Type	TR	Trim
		TL	Trimless
5	Beam Angle	°	15°
			24°
			50°
6	Color Temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
7	Mounting Bracket Finish	WH	White
		BLK	Black
8	Baffle Color	WH	White
		BLK	Black (Matt)
		PBLK	Piano Black (Glossy)
		GD	Gold
		CPGN	Champagne
		CM	Chrome
		BZ	Bronze

THE STANFORD SERIES: RANGE SPECIFICATIONS

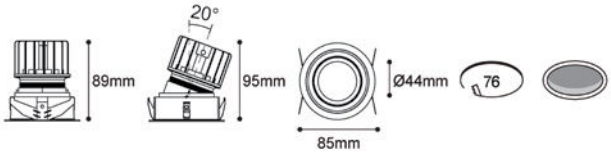
Luminaire type	Spotlight, Downlight
Color temperature	2700K, 3000K, 4000K
CRI	>95
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W
Maximum Ambient Temperature	45° C
Material	Die cast Aluminium
Beam Angle	15°, 24°, 50°
Baffle Color	White, Black, Piano Black, Gold, Champagne, Chrome, Bronze
Average rated life	> 60,000 hrs.
Mounting Technique	Recess
Degree of protection	IP44
Certification	BIS (Bureau of Indian Standards)
Application	Indoor - Residences, shops, offices, restaurant & bars, hotel rooms, showrooms

THE STANFORD SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

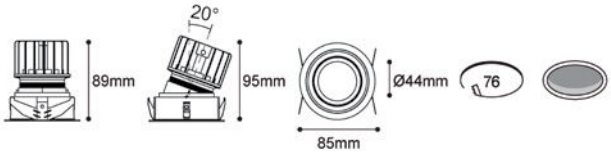
IP44 | UGR <19 | 30° | 9W, 12W, 14W



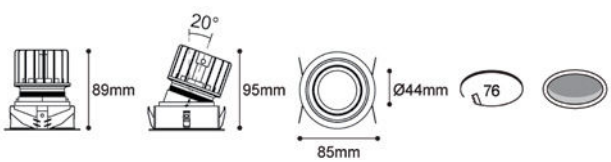
Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	White (WH)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



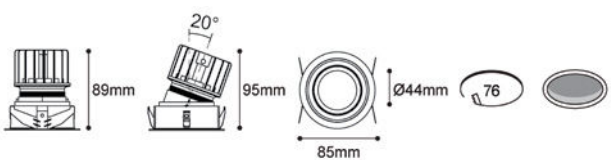
Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Black (Matt) (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Piano Black (Glossy) (PBLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Gold (GD)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

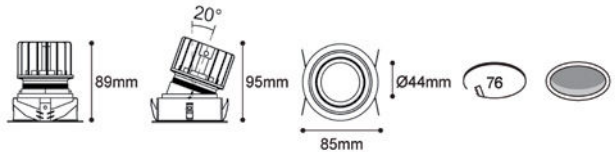
THE STANFORD SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

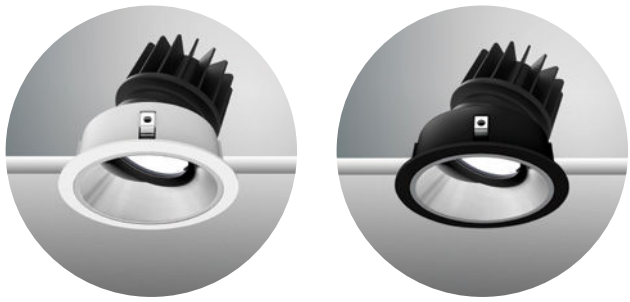


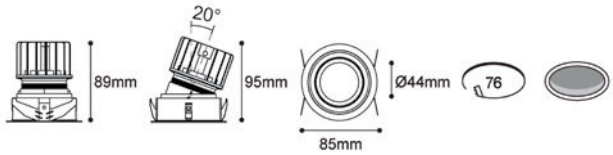
9W, 12W, 14W



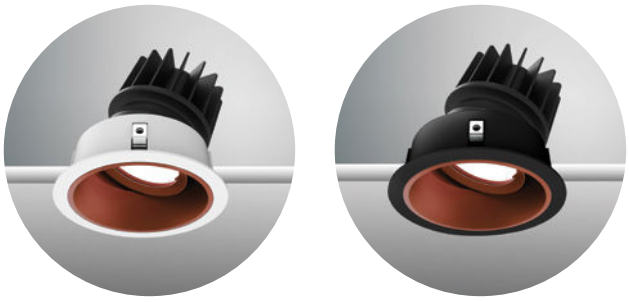


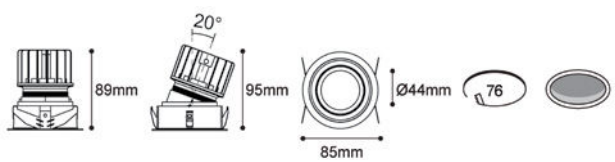
Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Champagne (CPGN)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Chrome (CM)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



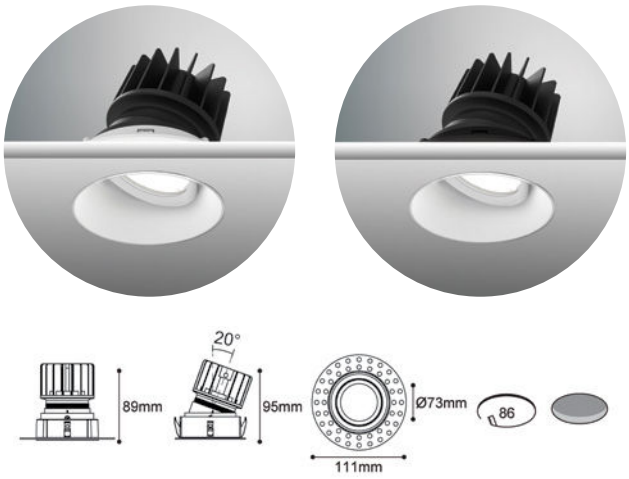


Housing type	Tiltable
Description	Stanford RD TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

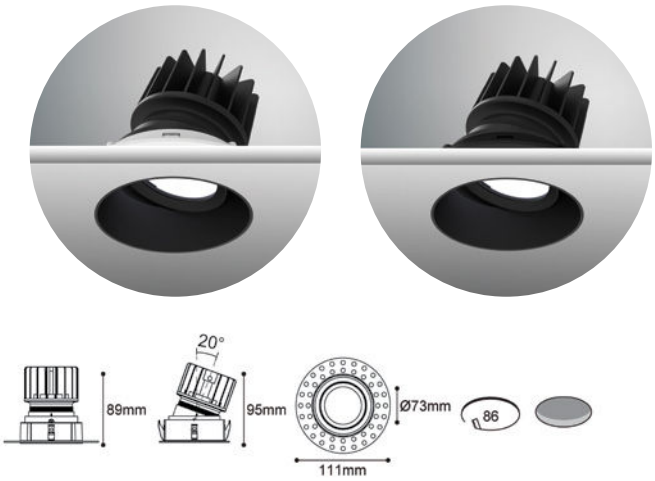
THE STANFORD SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

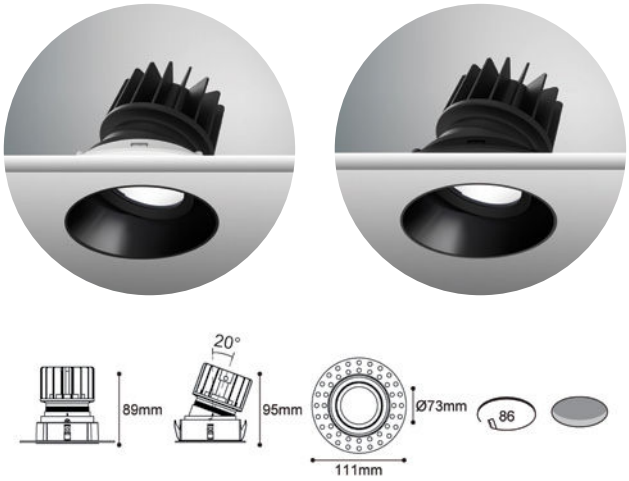
IP44 | UGR<19 | 20° | 9W, 12W, 14W



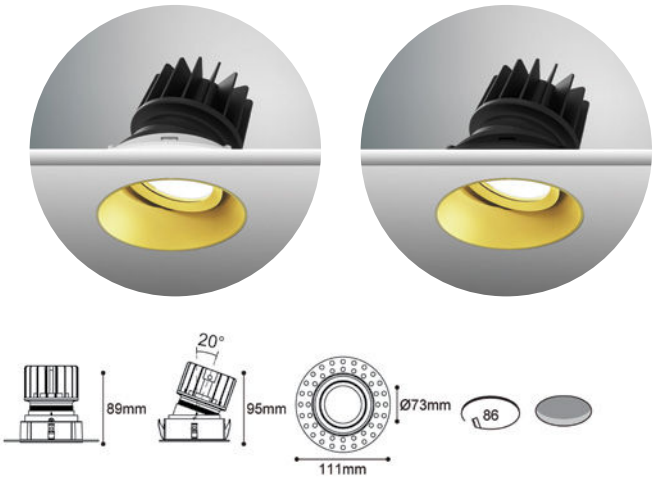
Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	White (WH)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Black (Matt) (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Piano Black (Glossy) (PBLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



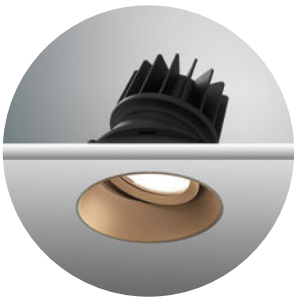
Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Gold (GD)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

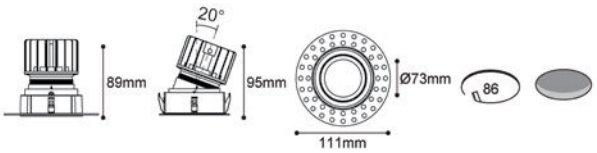
THE STANFORD SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

IP44 | UGR <19 | 20° | 9W, 12W, 14W



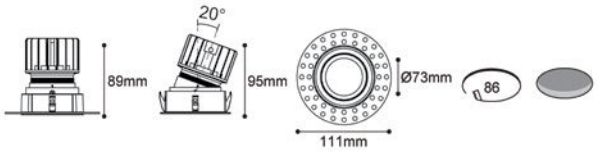




Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Champagne (CPGN)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



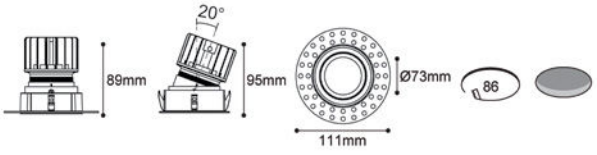




Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Chrome (CM)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W







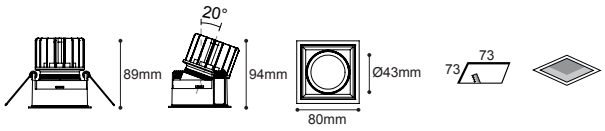
Housing type	Tiltable
Description	Stanford RD TL
Mounting bracket	Trimless
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

THE STANFORD SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - SQUARE

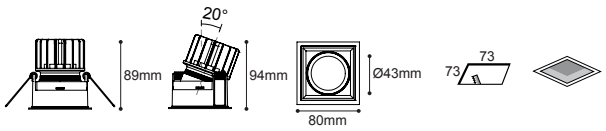
IP44 | UGR<19 | 20° | 9W, 12W, 14W



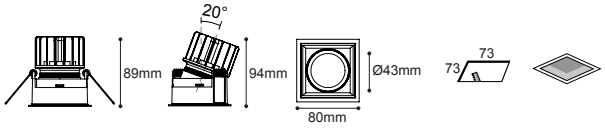
Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	White (WH)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



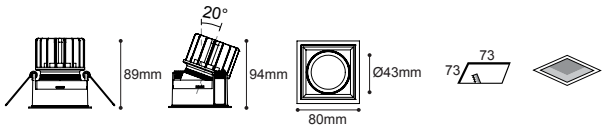
Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Black (Matt) (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Piano Black (Glossy) (PBLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



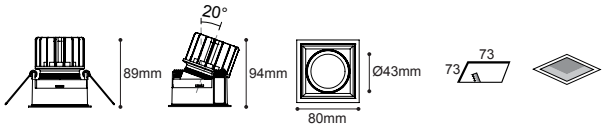
Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Gold (GD)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

THE STANFORD SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

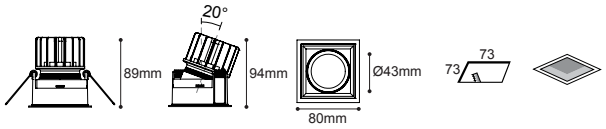
IP44 | UGR<19 | 20° | 9W, 12W, 14W



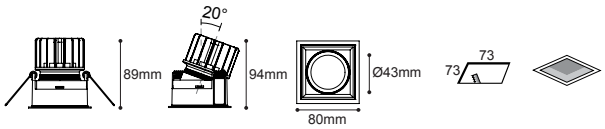
Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Champagne (CPGN)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Chrome (CM)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



Housing type	Tiltable
Description	Stanford SQ TR
Mounting bracket	Trim
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W,) 350mA (14W)
Beam angle	15°, 24°, 50°
Baffle colour	Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



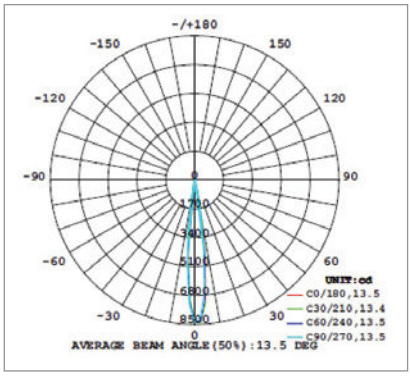


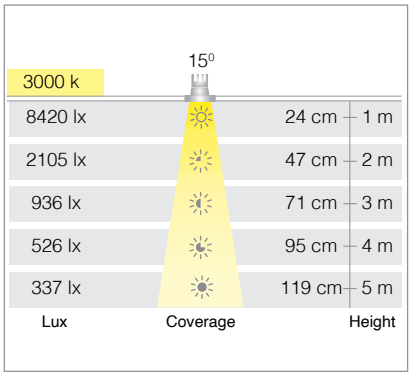


THE STANFORD SERIES: LIGHT DISTRIBUTION and AAI GRAPHS

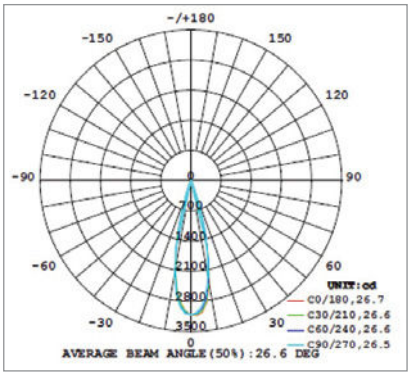
9W Luminaires

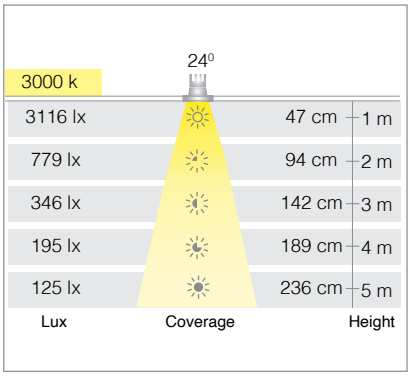
15° BEAM ANGLE



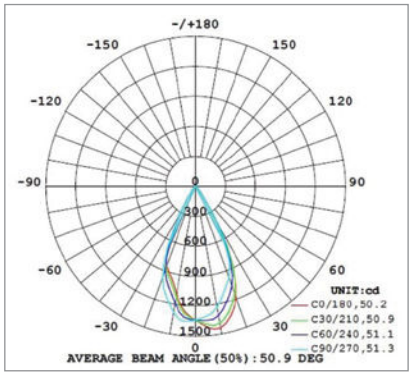


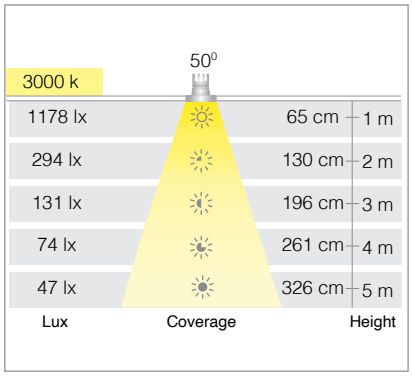
24° BEAM ANGLE





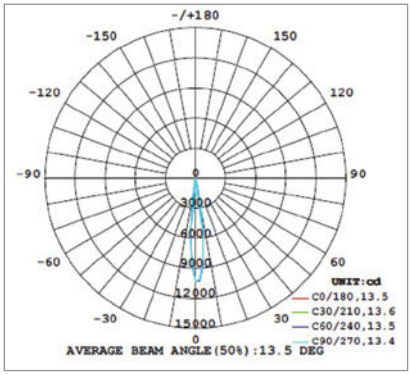
50° BEAM ANGLE

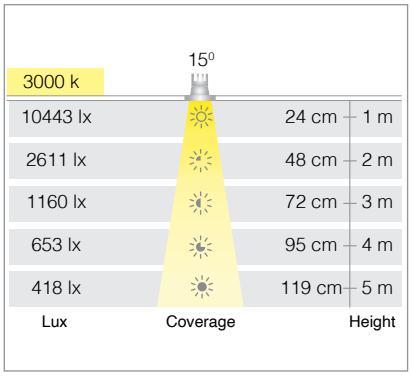




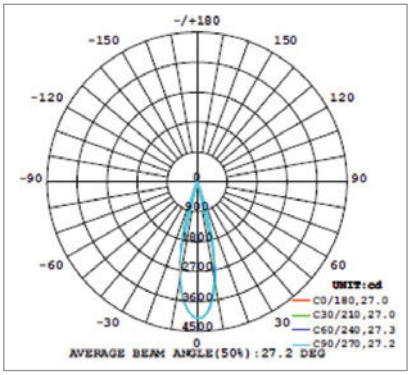
12W Luminaires

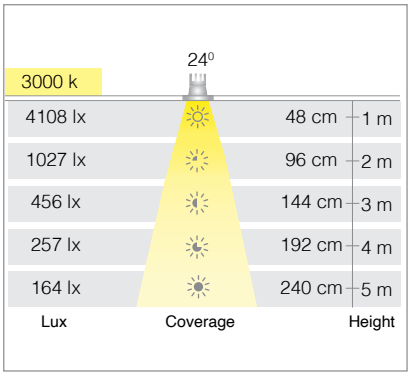
15° BEAM ANGLE



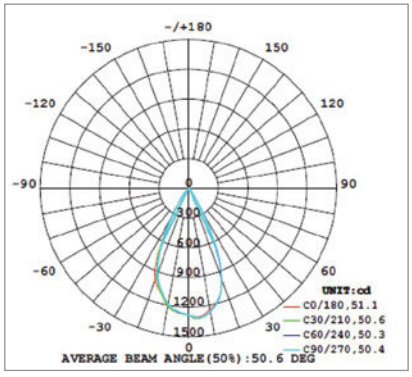


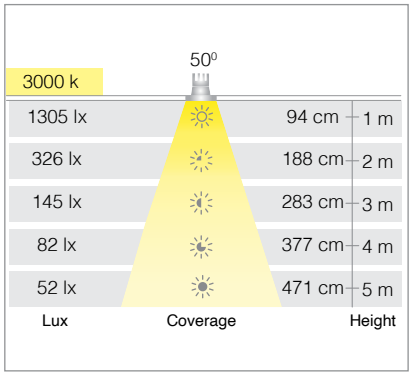
24° BEAM ANGLE





50° BEAM ANGLE



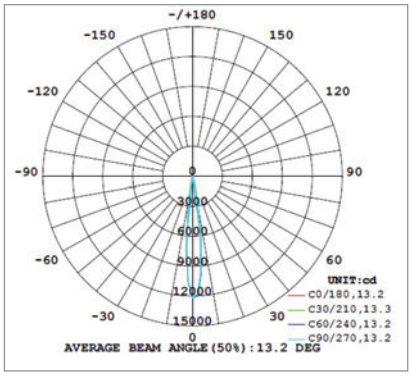


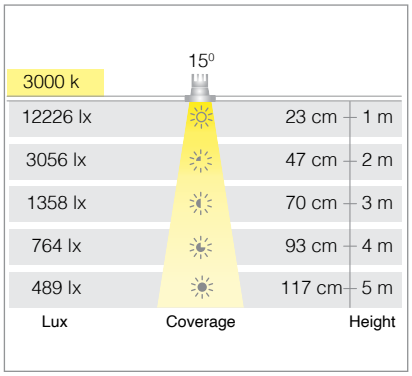
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE STANFORD SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

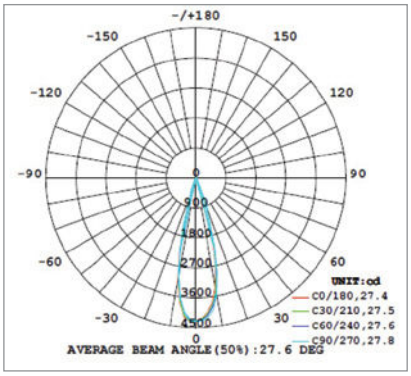
14W Luminaires

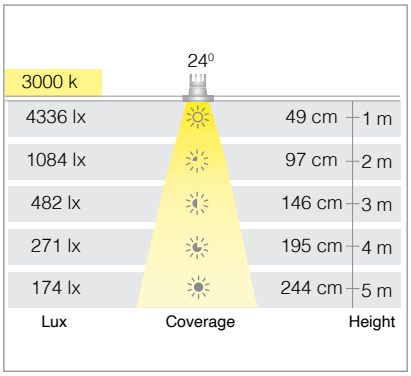
15° BEAM ANGLE



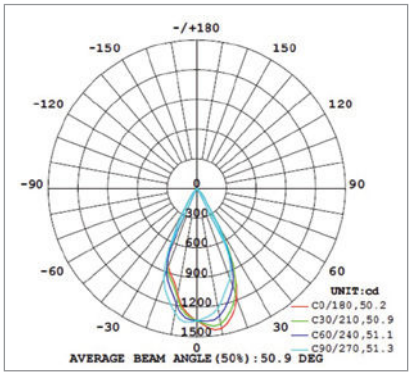


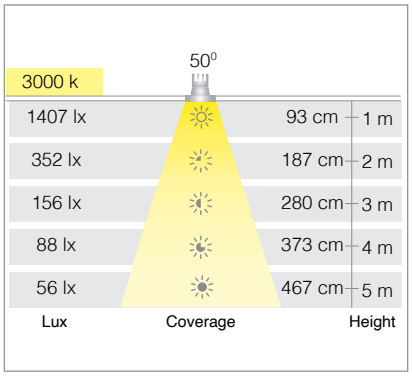
24° BEAM ANGLE





50° BEAM ANGLE





Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE STANFORD SERIES: CONSTANT CURRENT DRIVERS

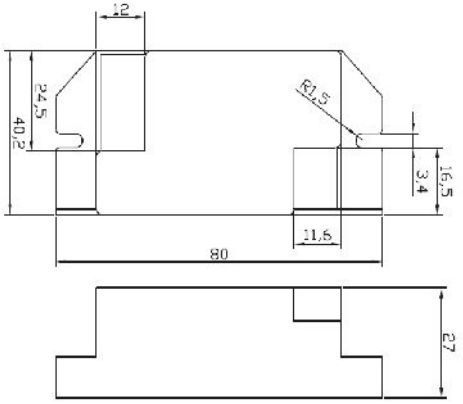
KNIGHT 200 - CONSTANT SINGLE CURRENT LED DRIVER, 200mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output



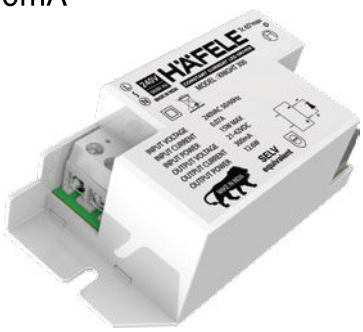
Technical Specifications	
Article No.	833.30.968
Input Voltage	240VAC ±10% 50/60 Hz
Input Current	0.05A Max.
Input Power	11W Max.
Output Current	200mA
Output Voltage	21 - 42VDC
Output Power	8.4W
Power Factor	>0.90
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)



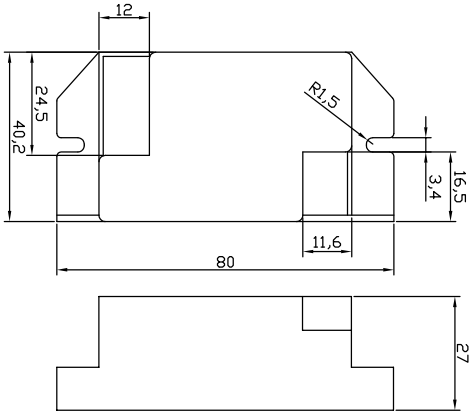
KNIGHT 300 - CONSTANT SINGLE CURRENT LED DRIVER, 300mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.



Technical Specifications	
Article No.	833.30.972
Input Voltage	240Vac ± 10%,50/60Hz
Input Current	0.07A Max.
Input Power	15W Max.
Output Current	300mA
Output Voltage	21 - 42VDC
Output Power	12.6W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)



THE STANFORD SERIES: CONSTANT CURRENT DRIVERS

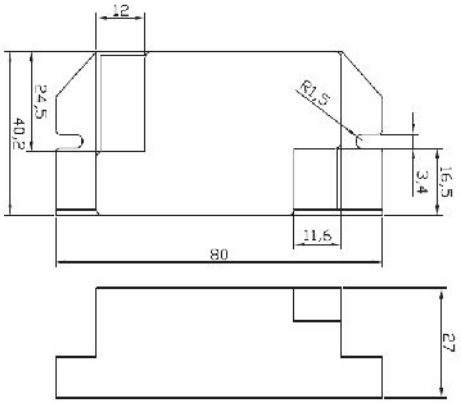
KNIGHT 350 - CONSTANT SINGLE CURRENT LED DRIVER, 350mA

IP20

- SELV Equivalent
- Suitable for Class II Fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output



Technical Specifications	
Article No.	833.30.971
Input Voltage	240VAC ±10% 60 Hz
Input Current	0.10A Max.
Input Power	18W Max.
Output Current	350mA
Output Voltage	21 - 42VDC
Output Power	15W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV As per EN 61000-4-5)



5 YEARS GUARANTEE*

THE STANFORD SERIES: CONSTANT CURRENT DRIVERS

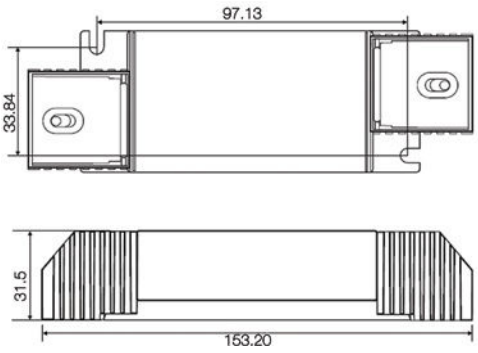
DUKE 500 - CONSTANT MULTI-CURRENT LED DRIVER, 250mA, 350mA, 450mA, 500mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.973
Input Voltage	240VAC ±20% 50Hz
Input Current	0.11A Max.
Input Power	27W Max.
Output Current	250mA, 350mA, 450mA, 500mA (±7%)
Output Voltage	33 - 43VDC
Output Power	22W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)



DUKE 500 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	500
ON	OFF	450
OFF	ON	350
OFF	OFF	250

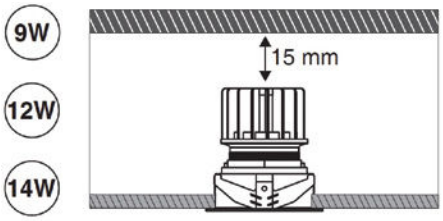


NOTE:

1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. The Stanford series spotlights and downlights allow automation by connecting to Dali compatible drivers.

THE STANFORD SERIES: INSTALLATION DETAILS

GAP BETWEEN TRUE CEILING AND LUMINAIRE



Minimum 15 mm of gap from the true ceiling to the top edge of the luminaire is required for installation of all luminaires under the Standford series, irrespective of their wattage.

THE STANFORD SERIES: ORDERING INFORMATION

1. LIGHT ENGINE

Article No.	Wattage	Current	Color Temperature	Beam Angle	Dimensions (mm)
833.30.848	9W	200mA	2700K	15°	Dia 65 x H 65
833.30.849	9W	200mA	3000K	15°	Dia 65 x H 65
833.30.850	9W	200mA	4000K	15°	Dia 65 x H 65
833.30.852	9W	200mA	2700K	24°	Dia 65 x H 65
833.30.853	9W	200mA	3000K	24°	Dia 65 x H 65
833.30.854	9W	200mA	4000K	24°	Dia 65 x H 65
833.30.856	9W	200mA	2700K	50°	Dia 65 x H 65
833.30.857	9W	200mA	3000K	50°	Dia 65 x H 65
833.30.858	9W	200mA	4000K	50°	Dia 65 x H 65
833.30.860	12W	300mA	2700K	15°	Dia 65 x H 65
833.30.861	12W	300mA	3000K	15°	Dia 65 x H 65
833.30.862	12W	300mA	4000K	15°	Dia 65 x H 65
833.30.864	12W	300mA	2700K	24°	Dia 65 x H 65
833.30.865	12W	300mA	3000K	24°	Dia 65 x H 65
833.30.866	12W	300mA	4000K	24°	Dia 65 x H 65
833.30.868	12W	300mA	2700K	50°	Dia 65 x H 65
833.30.869	12W	300mA	3000K	50°	Dia 65 x H 65
833.30.870	12W	300mA	4000K	50°	Dia 65 x H 65
833.30.872	14W	350mA	2700K	15°	Dia 65 x H 65
833.30.873	14W	350mA	3000K	15°	Dia 65 x H 65
833.30.874	14W	350mA	4000K	15°	Dia 65 x H 65
833.30.876	14W	350mA	2700K	24°	Dia 65 x H 65
833.30.877	14W	350mA	3000K	24°	Dia 65 x H 65
833.30.878	14W	350mA	4000K	24°	Dia 65 x H 65
833.30.880	14W	350mA	2700K	50°	Dia 65 x H 65
833.30.881	14W	350mA	3000K	50°	Dia 65 x H 65
833.30.882	14W	350mA	4000K	50°	Dia 65 x H 65

2. BAFFLES

Article No	Shape	Colour	Dimensions (mm)
833.30.884	Round	White	Dia 71 x H 37
833.30.885	Round	Black (Matt)	Dia 71 x H 37
833.30.886	Round	Piano Black (Glossy)	Dia 71 x H 37
833.30.887	Round	Gold	Dia 71 x H 37
833.30.888	Round	Champagne	Dia 71 x H 37
833.30.889	Round	Chrome	Dia 71 x H 37
833.30.890	Round	Bronze	Dia 71 x H 37

THE STANFORD SERIES: ORDERING INFORMATION

2. BAFFLES

Article No	Shape	Colour	Dimensions (mm)
833.30.824	Square	White	70 x 70 x 40
833.30.825	Square	Black (Matt)	70 x 70 x 40
833.30.826	Square	Piano Black (Glossy)	70 x 70 x 40
833.30.827	Square	Gold	70 x 70 x 40
833.30.828	Square	Champagne	70 x 70 x 40
833.30.829	Square	Chrome	70 x 70 x 40
833.30.830	Square	Bronze	70 x 70 x 40

3. LOUVERS / GLARE REDUCTION ADD-ONS

Article No.	Description
833.13.563	Stanford/Cambridge Striped Glass
833.13.566	Stanford/Cambridge Honeycomb Louver
833.13.571	Stanford/Cambridge Woven Glass
833.13.575	Stanford/Cambridge Diffusion Sheet

4. MOUNTING BRACKET

Article No.	Shape	Type	Colour	Dimensions (mm)
833.30.891	Round	Trim	White	Dia 85 x H 30
833.30.893	Round	Trimless	White	Dia 111 x H 30
833.30.892	Round	Trim	Black	Dia 85 x H 30
833.30.894	Round	Trimless	Black	Dia 111 x H 30
833.30.831	Square	Trim	White	81 x 81 x 50
833.30.832	Square	Trim	Black	81 x 81 x 50

5. DRIVERS

Article No.	Description	Current
833.30.968	Knight 200 - Constant Single Current LED Driver, 200mA	200mA
833.30.972	Knight 300 - Constant Single Current LED Driver, 300mA	300mA
833.30.971	Knight 350 - Constant Single Current LED Driver, 350mA	350mA
833.30.973	Duke 500 - Constant Multi-Current LED Driver, 250mA, 350mA, 450mA, 500mA	500mA Max.

HÄFELE™
ARCHITECTURAL LIGHTS



IMPERIAL

Porches, balconies, and bathrooms necessitate special considerations and extra planning when it comes to lighting because of the stark difference in their environmental conditions when compared to other indoor spaces. The Imperial Architectural Lights by Häfele are the best choice for meeting the illumination needs of such spaces.

These luminaires with a small design build and effortless aesthetics, come with an anti-glare feature that helps create a soft, soothing light effect for additional comfort. Owing to their IP65 Rating, the Imperial lights are best suited for areas that are continually exposed to dusty or humid environments. When in contact with dust, dirt, and debris, the high IP rating of the lights provides a great degree of protection and keeps the fixtures from getting damaged.


HÄFELE
ARCHITECTURAL LIGHTS

THE IMPERIAL SERIES: FEATURES

1. Simple design fixture

Imperial is a compact fixture with a modern, minimalist design. The reflective material inside the reflector within the light fixture shapes and enhances the light to illuminate your space. It is a recessed downlight that features an anti-glare reflector and a transparent glass.





2. Higher IP rated light fixture

The Imperial series, with an IP65 rating, offers protection against water, dust, dirt, debris, and moisture. The light fixture is resistant to multi-directional, low-pressure water jets, making it suitable to be used in humid environments.

3. Deep recessed downlight

The deep recessed light fixtures have the light source regressed into the luminaire to enhance the glare reduction quality, while the luminaire itself is recessed into the ceiling for an unobtrusive look.



THE IMPERIAL SERIES: DECODING THE NOMENCLATURE

Imperial	5W	.25A	TLT	RD	TR	40°	30K	WH
	1	2	3	4	5	6	7	8

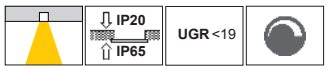
Number	Category	Abbreviation	Possibilities
1	Output	W	5 Watts
			7 Watts
			10 Watts
2	Current	.25A	250mA
		.7A	700mA
3	Housing type	TLT	Tilt
		DL	Fixed downlight
4	Shape	RD	Round
5	Mounting bracket type	TR	Trim
6	Beam angle	°	40°
7	Colour temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
8	Finish	WH	White
		BLK	Black

THE IMPERIAL SERIES: RANGE SPECIFICATIONS

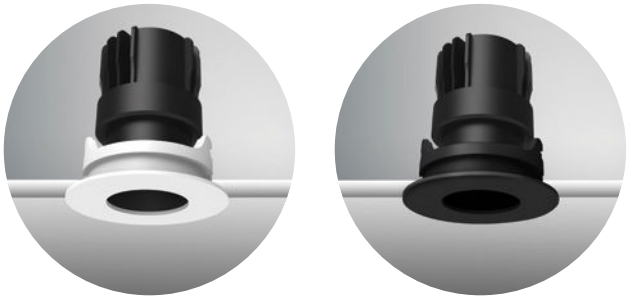
Luminaire type	Downlight
Colour temperature	2700K, 3000K, 4000K
CRI	>95
Wattage	5W, 7W, 10W
Current	250mA (5W, 10W), 700mA (7W)
Maximum ambient temperature	45°C
Beam angle	40°
Material	Die cast aluminium
Finish	Black, White
Average rated life	> 60,000 hrs.
UGR	<19
Mounting technique	Recess
Degree of protection	IP65
Certification	BIS (Bureau of Indian Standards)
Energy efficiency class	Class II
Applications	Indoors and wet areas - Porch, laundry room, bathroom, balcony, hotel, kitchen

THE IMPERIAL SERIES: RANGE SPECIFICATIONS

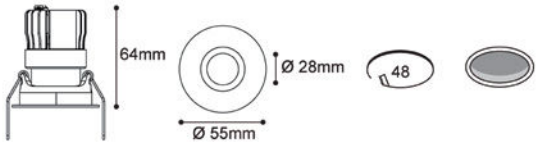
FIXED RECESSED DOWNLIGHTS - ROUND

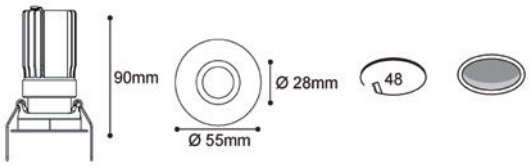


5W, 7W, 10W









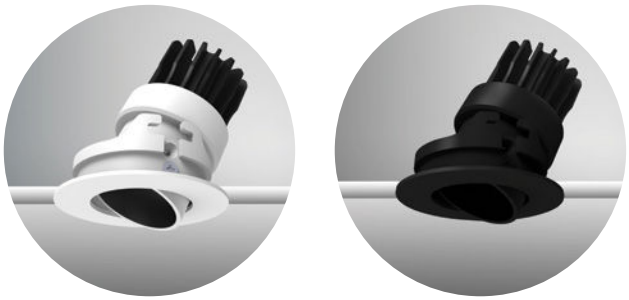
Housing type	Fixed
Description	Imperial RD TR
Mounting brackets	Trim
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Beam angle	40°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire (lm/W)	85 lm/w (5W), 79 lm/W (7W)

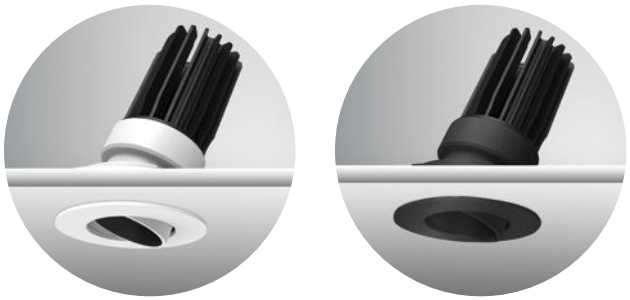
Housing type	Fixed
Description	Imperial RD TR
Mounting brackets	Trim
Wattage	10W
Current	250mA,10W
Beam angle	40°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire (lm/W)	82 lm/W

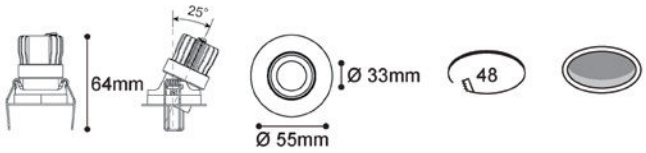
TILTABLE RECESSED DOWNLIGHTS - ROUND



5W, 7W, 10W









Housing type	Tiltable
Description	Imperial TLT RD TR
Mounting brackets	Trim
Wattage	5W, 7W
Current	250mA (5W), 700mA (7W)
Beam angle	40°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire (lm/W)	85 lm/w (5W), 79 lm/W (7W)

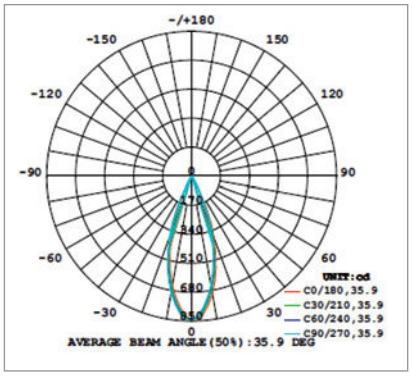
Housing type	Tiltable
Description	Imperial TLT RD TR
Mounting brackets	Trim
Wattage	10W
Current	250mA
Beam angle	40°
Housing colour	White (WH), Black (BLK)
Lumen output at source for 3000K luminaire (lm/W)	82 lm/w

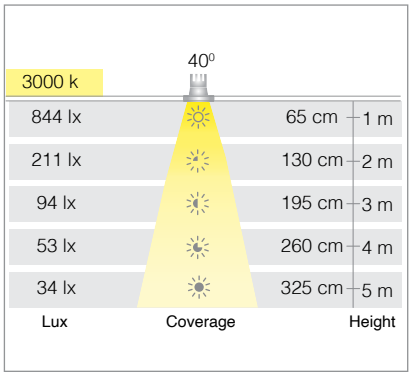
5 YEARS GUARANTEE*

THE IMPERIAL SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

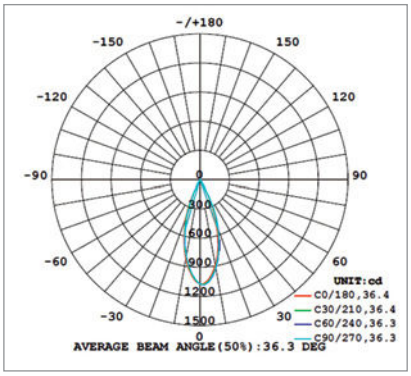
5W, 7W, 10W Luminaires

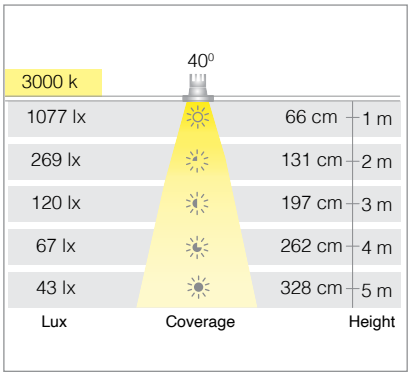
5W LUMINAIRE



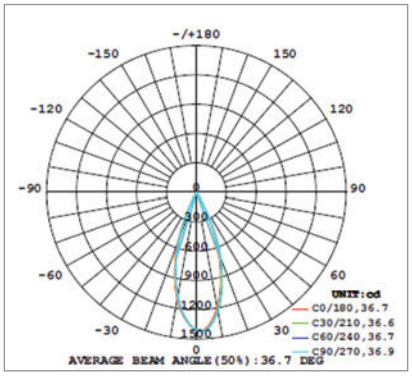


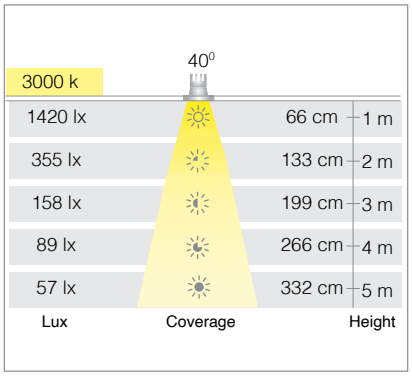
7W LUMINAIRE





10W LUMINAIRE





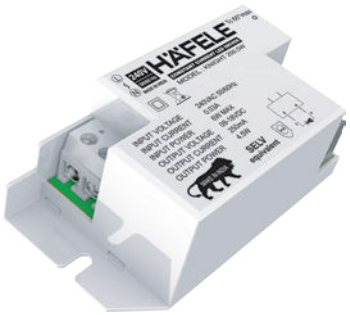
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

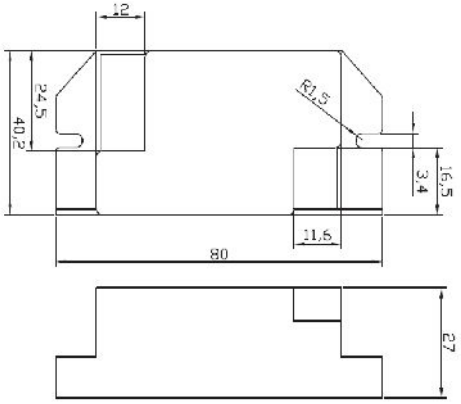
THE IMPERIAL SERIES: CONSTANT CURRENT DRIVERS

KNIGHT 250, 5W - CONSTANT SINGLE CURRENT LED DRIVER, 250mA

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

IP20



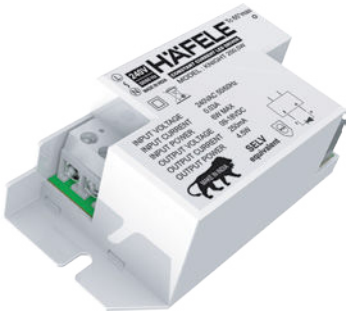


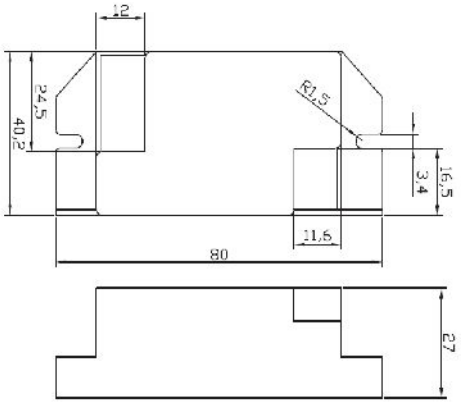
Technical Specifications	
Article No.	833.13.643
Input Voltage	240VAC ±10% 50 Hz
Input Current	0.03A Max.
Input Power	6W Max.
Output Current	250mA
Output Voltage	9 - 18VDC
Output Power	4.5W
Power Factor	>0.85
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV DM)

KNIGHT 250, 10W - CONSTANT SINGLE CURRENT LED DRIVER, 250mA

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

IP20





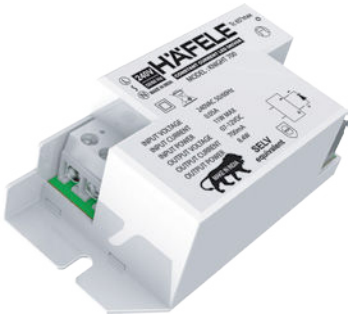
Technical Specifications	
Article No.	833.30.974
Input Voltage	240VAC ±10% 50 Hz
Input Current	0.06A Max.
Input Power	13W Max.
Output Current	250mA
Output Voltage	21 - 42VDC
Output Power	10W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV As per EN 61000-4-5)

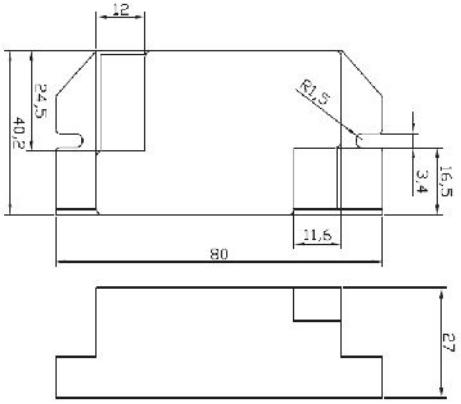
THE IMPERIAL SERIES: CONSTANT CURRENT DRIVERS

KNIGHT 700 - CONSTANT SINGLE CURRENT LED DRIVER, 700mA

IP20

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output





Technical Specifications	
Article No.	833.30.969
Input Voltage	240VAC ±10% 50 Hz
Input Current	0.06A Max.
Input Power	11W Max.
Output Current	700mA
Output Voltage	7 - 12VDC
Output Power	8.4W
Power Factor	>0.85
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV DM)

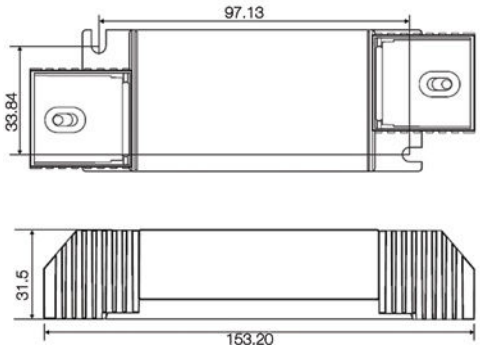
THE IMPERIAL SERIES: CONSTANT CURRENT DRIVERS

DUKE 500 - CONSTANT MULTI-CURRENT LED DRIVER, 250mA, 350mA, 450mA, 500mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output





Technical Specifications	
Article No.	833.30.973
Input Voltage	240VAC ±20% 50Hz
Input Current	0.11A Max.
Input Power	27W Max.
Output Current	250mA, 350mA, 450mA, 500mA (±7%)
Output Voltage	33 - 43VDC
Output Power	22W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)

DUKE 500 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	500
ON	OFF	450
OFF	ON	350
OFF	OFF	250



5 YEARS GUARANTEE*

THE IMPERIAL SERIES: CONSTANT CURRENT DRIVERS

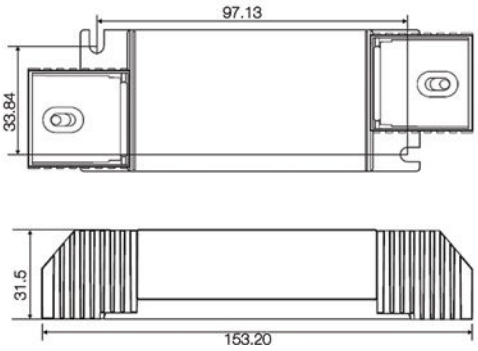
DUKE 700 - CONSTANT MULTI-CURRENT LED DRIVER, 400mA, 500mA, 600mA, 700mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.976
Input Voltage	240VAC ±20% 50Hz
Input Current	0.16A Max.
Input Power	36W Max.
Output Current	400mA, 5000mA, 600mA, 700mA (±7%)
Output Voltage	30 - 43VDC
Output Power	30.1W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)



DUKE 700 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	700
ON	OFF	600
OFF	ON	500
OFF	OFF	400

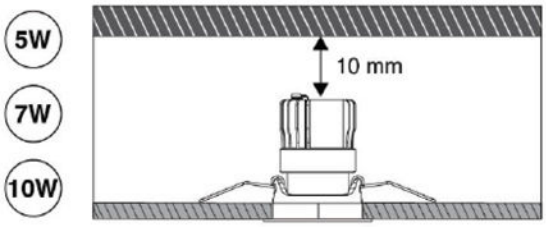


NOTE:

1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available
3. The Imperial series downlights allow automation by connecting to Dali compatible drivers.

THE IMPERIAL SERIES: INSTALLATION DETAILS

GAP BETWEEN TRUE CEILING AND LUMINAIRE



Minimum 10 mm of gap from the true ceiling to the top edge of the luminaire is required for installation of all luminaires under the Imperial series, irrespective of their wattage.

THE IMPERIAL SERIES: ORDERING INFORMATION

1. LUMINAIRE

Article No.	Wattage	Current	Colour Temperature	Housing type	Colour	Dimensions (mm)
833.13.520	5W	250mA	2700K	Fixed	White	Dia 55 x H 64
833.13.521	5W	250mA	3000K	Fixed	White	Dia 55 x H 64
833.13.522	5W	250mA	4000K	Fixed	White	Dia 55 x H 64
833.13.524	5W	250mA	2700K	Fixed	Black	Dia 55 x H 64
833.13.525	5W	250mA	3000K	Fixed	Black	Dia 55 x H 64
833.13.526	5W	250mA	4000K	Fixed	Black	Dia 55 x H 64
833.13.528	5W	250mA	2700K	Tiltable	White	Dia 55 x H 64
833.13.529	5W	250mA	3000K	Tiltable	White	Dia 55 x H 64
833.13.530	5W	250mA	4000K	Tiltable	White	Dia 55 x H 64
833.13.532	5W	250mA	2700K	Tiltable	Black	Dia 55 x H 64
833.13.533	5W	250mA	3000K	Tiltable	Black	Dia 55 x H 64
833.13.534	5W	250mA	4000K	Tiltable	Black	Dia 55 x H 64
833.30.816	7W	700mA	2700K	Fixed	White	Dia 55 x H 64
833.30.817	7W	700mA	3000K	Fixed	White	Dia 55 x H 64
833.30.818	7W	700mA	4000K	Fixed	White	Dia 55 x H 64
833.30.820	7W	700mA	2700K	Fixed	Black	Dia 55 x H 64
833.30.821	7W	700mA	3000K	Fixed	Black	Dia 55 x H 64
833.30.822	7W	700mA	4000K	Fixed	Black	Dia 55 x H 64
833.13.536	7W	700mA	2700K	Tiltable	White	Dia 55 x H 64
833.13.537	7W	700mA	3000K	Tiltable	White	Dia 55 x H 64
833.13.538	7W	700mA	4000K	Tiltable	White	Dia 55 x H 64
833.13.540	7W	700mA	2700K	Tiltable	Black	Dia 55 x H 64
833.13.541	7W	700mA	3000K	Tiltable	Black	Dia 55 x H 64
833.13.542	7W	700mA	4000K	Tiltable	Black	Dia 55 x H 64
833.13.544	10W	250mA	2700K	Fixed	White	Dia 55 x H 90
833.13.545	10W	250mA	3000K	Fixed	White	Dia 55 x H 90
833.13.546	10W	250mA	4000K	Fixed	White	Dia 55 x H 90
833.13.548	10W	250mA	2700K	Fixed	Black	Dia 55 x H 90
833.13.549	10W	250mA	3000K	Fixed	Black	Dia 55 x H 90
833.13.550	10W	250mA	4000K	Fixed	Black	Dia 55 x H 90
833.13.552	10W	250mA	2700K	Tiltable	White	Dia 55 x H 90
833.13.553	10W	250mA	3000K	Tiltable	White	Dia 55 x H 90
833.13.554	10W	250mA	4000K	Tiltable	White	Dia 55 x H 90
833.13.556	10W	250mA	2700K	Tiltable	Black	Dia 55 x H 90
833.13.557	10W	250mA	3000K	Tiltable	Black	Dia 55 x H 90
833.13.558	10W	250mA	4000K	Tiltable	Black	Dia 55 x H 90

THE IMPERIAL SERIES: ORDERING INFORMATION

2. DRIVERS

Article No.	Description	Current
833.13.643	Knight 250, 5W - Constant Single Current LED Driver, 250mA	250mA
833.30.974	Knight 250, 10W - Constant Single Current LED Driver, 250mA	250mA
833.30.969	Knight 700 - Constant Single Current LED Driver, 700mA	700mA
833.30.973	Duke 500 - Constant Multi-Current LED Driver, 250mA, 350mA, 450mA, 500mA	500mA Max.
833.30.976	Duke 700 - Constant Multi-Current LED Driver, 400mA, 500mA, 600mA, 700mA	700mA Max.

HÄFELE™
ARCHITECTURAL LIGHTS





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ARCHITECTURAL LIGHTS

PRINCETON

Wall washing is a special and unique effect that illuminates a vertical surface with flawless and even brightness. It is the element that draws attention to your textured wall, wall display, entrance or fireplace and makes it noticeable. The light fittings that deliver such effects not only need to produce a high quality light output but also need to be technically efficient.

It can therefore safely be said that achieving such a light effect and accurately installing a wall-washer is indeed an art and having a trusted brand deliver it quite rare. The Princeton series by Hafele brings you the perfect solution. The wall washers from this series give you a consistent wall illumination which reduces the effects of irregularities on the wall, provide smooth light transitions from ceiling to the wall, and an effortless gradient from the top to the bottom, presenting your wall with the elegance it deserves.

The luminaires from the Princeton series are made of Aluminium and are available in two colours - white and black. These are suitable for use in indoor applications like hotel lobbies, high-end residential apartments, offices etc.

THE PRINCETON SERIES: FEATURES

1. Uniform wall washing

The precise light control of Princeton wall washers provides uniform light distribution that reduces the visibility of shadows and patches that arise due to irregularities present on the wall. Such irregularities may arise due to, for example, improper finishing of the wall surface or improper installation of wallpaper.



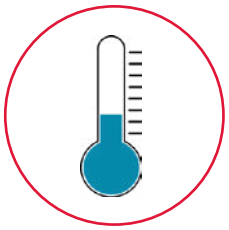
2. Hidden source of light that gives you harmonious visual experience

Multiple free form surface reflectors, also known as shells, together form a Princeton luminaire. Every shell has a reflective coating that directs the light output from the LED above. The LED in the luminaire is thus not directly visible to the naked eye, creating a hidden source of light and giving a harmonious visual experience.



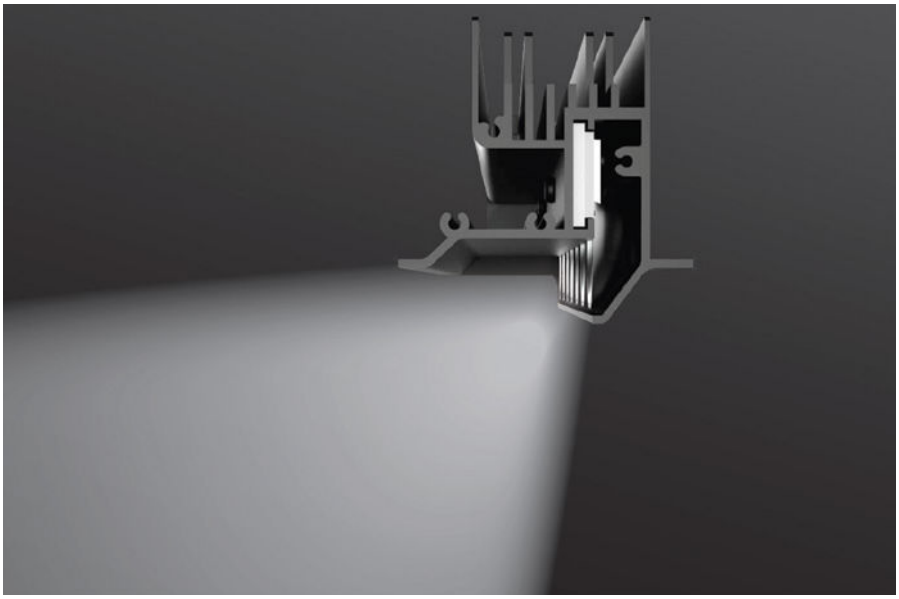
3. Optimized thermal properties that generate less heat

The innovative heat sink design optimizes the thermal properties of the Princeton luminaire, generating lesser heat even with prolonged usage. This increases the efficiency and life of the luminaire.



4. Sharp cut off angle with asymmetric light distribution

The shell design of the Princeton series luminaire provides an asymmetric light distribution that enables uniform light output starting from the top most edge of the wall. The sharp cut-off angle on both ends of the beam enables light output to evenly transition from the ceiling to the wall and transforms into a smooth gradient from the top most edge of the wall to the bottom edge offering a very comfortable visual experience.



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THE PRINCETON SERIES: DECODING THE NOMENCLATURE

Princeton	8W	.2A	TR	L	WW	30K	WH
	1	2	3	4	5	6	7

Number	Category	Abbreviation	Possibilities
1	Output	W	8 Watts
			15 Watts
			22 Watts
2	Current	.2A	200mA
		.3A	300mA
		.45A	450mA
3	Mounting bracket type	TR	Trim
4	Wall washer type	L	Linear
5	Type of luminaire	WW	Wall Washer
6	Colour temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
7	Finish	WH	White
		BLK	Black

THE PRINCETON SERIES: RANGE SPECIFICATIONS

Luminaire type	Wall Washer
Colour temperature	2700K, 3000K, 4000K
CRI	>90
Wattage	8W, 15W, 22W
Current	200mA (8W), 300mA (15W), 450mA (22W)
Maximum ambient temperature	45° C
Material	Aluminium
Finish	Black, White
Average rated life	> 60,000 hrs.
Mounting technique	Recess
Degree of protection	IP20
Certification	BIS (Bureau of Indian Standards)
Energy efficiency class	Class II
Applications	Indoor: Hotel lobbies, high-end residential apartments, museums and offices

THE PRINCETON SERIES: RANGE SPECIFICATIONS

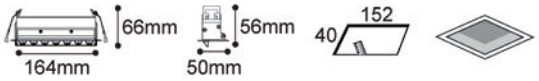
FIXED RECESSED LINEAR WALL WASHERS



8W, 15W, 22W







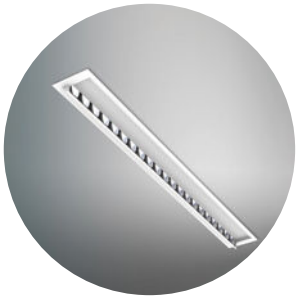
Description	Princeton WW TR
Wattage	8W
Current	200mA
Total lumen output at source (lm) for 3000K luminaire	936 lm



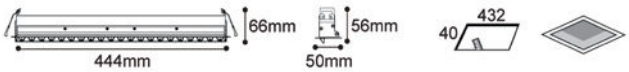




Description	Princeton WW TR
Wattage	15W
Current	300mA
Total lumen output at source (lm) for 3000K luminaire	1485 lm



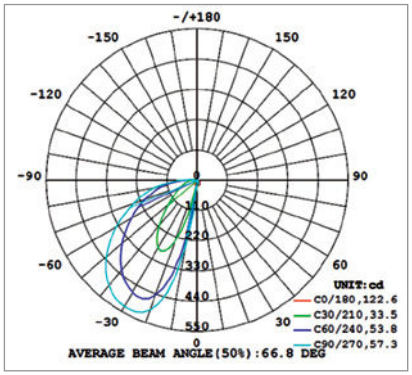


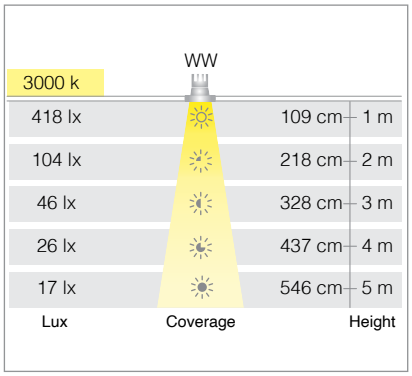


Description	Princeton WW TR
Wattage	22W
Current	450mA
Total lumen output at source (lm) for 3000K luminaire	2228 lm

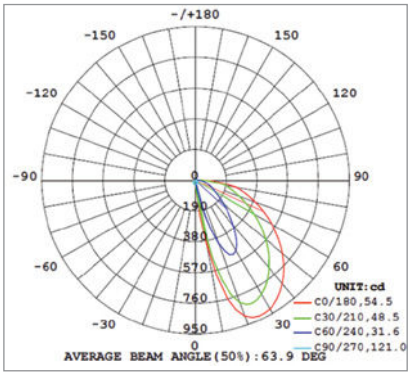
THE PRINCETON SERIES: LIGHT DISTRIBUTION and AAI GRAPHS

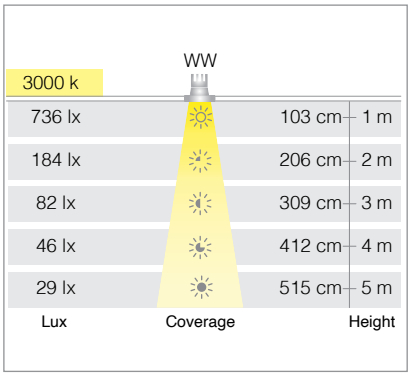
8W Luminaires



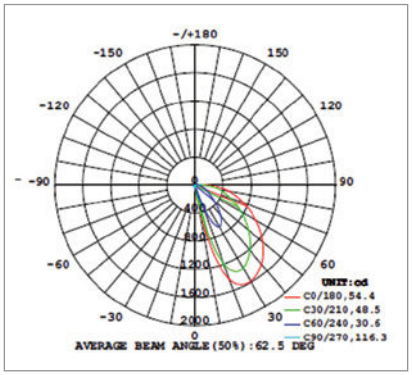


15W Luminaires





22W Luminaires



Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.



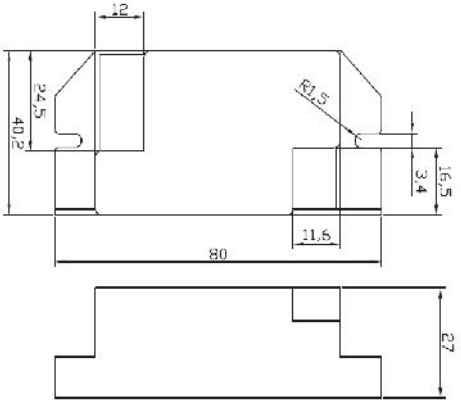
THE PRINCETON SERIES: CONSTANT CURRENT DRIVERS

KNIGHT 200 - CONSTANT SINGLE CURRENT LED DRIVER, 200mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output





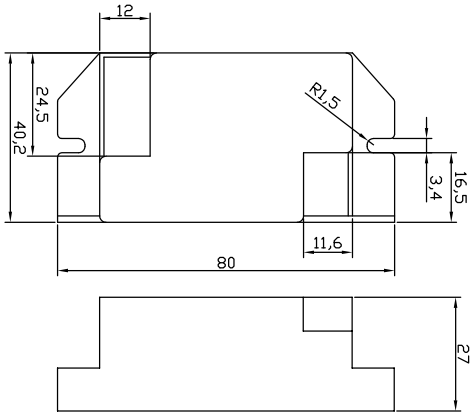
Technical Specifications	
Article No.	833.30.968
Input Voltage	240VAC ±10% 50/60 Hz
Input Current	0.05A Max.
Input Power	11W Max.
Output Current	200mA
Output Voltage	21 - 42VDC
Output Power	8.4W
Power Factor	>0.90
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)

KNIGHT 300 - CONSTANT SINGLE CURRENT LED DRIVER, 300mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.





Technical Specifications	
Article No.	833.30.972
Input Voltage	240Vac ± 10%,50/60Hz
Input Current	0.07A Max.
Input Power	15W Max.
Output Current	300mA
Output Voltage	21 - 42VDC
Output Power	12.6W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)

THE PRINCETON SERIES: CONSTANT CURRENT DRIVERS

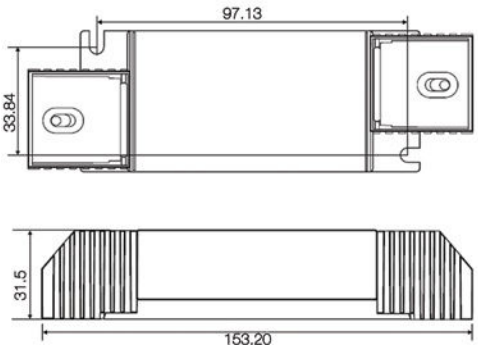
DUKE 500 - CONSTANT MULTI-CURRENT LED DRIVER, 250mA, 350mA, 450mA, 500mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.973
Input Voltage	240VAC ±20% 50Hz
Input Current	0.11A Max.
Input Power	27W Max.
Output Current	250mA, 350mA, 450mA, 500mA (±7%)
Output Voltage	33 - 43VDC
Output Power	22W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Protection	Yes (Line-Neutral 4kV)



DUKE 500 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	500
ON	OFF	450
OFF	ON	350
OFF	OFF	250

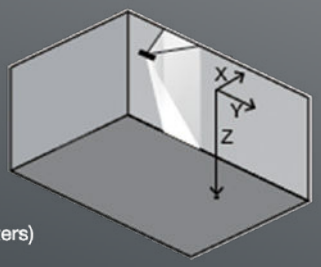


NOTE:

1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available
3. The Princeton series downlights allow automation by connecting to Dali compatible drivers.

THE PRINCETON SERIES: INSTALLATION DETAILS

IDEAL INSTALLATION DISTANCE

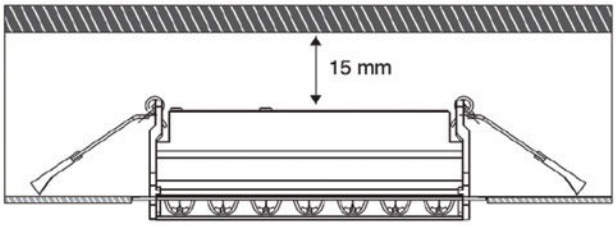


X: Lamp to Wall
Y: Lamp to Lamp
Z: Lamp to Floor
X : Y : Z = 1 : 1 : 3 (Meters)

The distances from lamp to wall, lamp to lamp and lamp to floor should be in the ratio of 1:1:3 (meters). For example, if the lamp is installed at a height of 3 meters above the floor, then the distance of the lamp from the wall which the lamp is illuminating should be 1 meter and its distance from adjacent lamp should be 1 meter.

GAP BETWEEN TRUE CEILING AND LUMINAIRE

8W
15W
22W



Minimum 15 mm of gap from the true ceiling to the top edge of the luminaire is required for installation of all luminaires under the Princeton series, irrespective of their wattage.

IMPORTANT INFORMATION

1. Do not use the luminaires from Princeton series to illuminate windows or mirrors because the light output from the luminaires could get reflected off such surfaces causing high degree of glare.
2. Dark surfaces reflect far less light as compared to lighter surfaces, hence more light should be directed at these surfaces if they are to be wall washed.
3. Fixtures mounted close to the wall create a grazing effect (light technique that accentuates wall textures or architectural elements by creating shadows) on textured surfaces. This can be an advantage if the texture is attractive, but should be avoided if the wall has surface irregularities. For a proper wall wash, always install Princeton luminaires in the ratio of 1:1:3 as shown above.
4. Note that wall washing is a special and unique effect. It is advised to consult an expert while selecting, planning and installing a wall washer.

THE PRINCETON SERIES: ORDERING INFORMATION

1. LUMINAIRE

Article No.	Wattage	Current	Colour Temperature	Colour	Dimensions (mm)
833.12.892	8W	200mA	2700K	White	165 x 50 x 50
833.12.893	8W	200mA	3000K	White	165 x 50 x 50
833.12.894	8W	200mA	4000K	White	165 x 50 x 50
833.12.896	8W	200mA	2700K	Black	165 x 50 x 50
833.12.897	8W	200mA	3000K	Black	165 x 50 x 50
833.12.898	8W	200mA	4000K	Black	165 x 50 x 50
833.12.900	15W	300mA	2700K	White	305 x 50 x 50
833.12.901	15W	300mA	3000K	White	305 x 50 x 50
833.12.902	15W	300mA	4000K	White	305 x 50 x 50
833.12.904	15W	300mA	2700K	Black	305 x 50 x 50
833.12.905	15W	300mA	3000K	Black	305 x 50 x 50
833.12.906	15W	300mA	4000K	Black	305 x 50 x 50
833.12.908	22W	450mA	2700K	White	445 x 50 x 50
833.12.909	22W	450mA	3000K	White	445 x 50 x 50
833.12.910	22W	450mA	4000K	White	445 x 50 x 50
833.12.912	22W	450mA	2700K	Black	445 x 50 x 50
833.12.913	22W	450mA	3000K	Black	445 x 50 x 50
833.12.914	22W	450mA	4000K	Black	445 x 50 x 50

2. DRIVERS

Article No.	Description	Current
833.30.968	Knight 200 - Constant Single Current LED Driver, 200mA	200mA
833.30.972	Knight 300 - Constant Single Current LED Driver, 300mA	300mA
833.30.973	Duke 500 - Constant Multi-Current LED Driver, 250mA, 350mA, 450mA, 500mA	500mA Max.

HÄFELE
ARCHITECTURAL LIGHTS



MCGILL

In corridors and along the stairways, floor washers are used to not only illuminate the surroundings but also to create soft lighting effects that subtly enhance the floor textures. Hafele's McGill floor washer light evenly across the floor while their concealed light source and minimal build enhance the aesthetics of the interior space.

These luminaires provide a glare-free illumination in areas with limited brightness and help avoid injuries or tripping especially in places where there are changes in the elevations. With an easy plug-and-play concept, installation of these lights is easy and entirely tool-free.


HÄFELE
ARCHITECTURAL LIGHTS

THE MCGILL SERIES: FEATURES

1. Even glare-free illumination

In corridors and along the staircase, floor washer luminaires add subtle, glare*-free illumination at a lower level. These luminaires wash the light evenly across the floor which helps highlight the floor textures as well as guides people through the area.

*Glare is a visual sensation caused by excessive and uncontrolled brightness at the light source.



2. Illumination for safety

Floor washers make the perfect solutions to light up the corridors and staircases under limited brightness conditions. These ensure higher safety especially at night. These luminaires also provide an estimation of different elevation levels to avoid tripping or injury, for e.g. on the stairway.

THE MCGILL SERIES: DECODING THE NOMENCLATURE

McGill	7W	.7A	SQ	TR	FW	30K	WH
	1	2	3	4	5	6	7

Number	Category	Abbreviation	Possibilities
1	Output	W	7 Watts
2	Current	.7A	700mA
3	Shape	SQ	Square
4	Mounting bracket type	TR	Trim
		TL	Trimless
5	Type of luminaire	FW	Floor Washer
6	Colour temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
7	Finish	WH	White
		BLK	Black

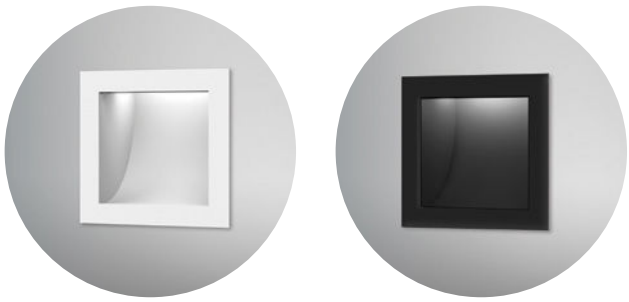
THE MCGILL SERIES: RANGE SPECIFICATIONS

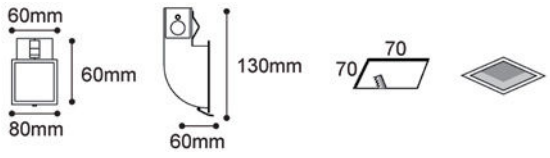
Luminaire type	Floor Washer
CRI	>95
Maximum ambient temperature	45° C
Material	Die cast Aluminium
Finish	White, Black
Average rated life	> 60,000 hrs.
Mounting technique	Recess
Degree of protection	IP20
Certification	BIS (Bureau of Indian Standards)
Energy efficiency class	Class II
Applications	Indoor: Corridors and stairways

THE MCGILL SERIES: RANGE SPECIFICATIONS

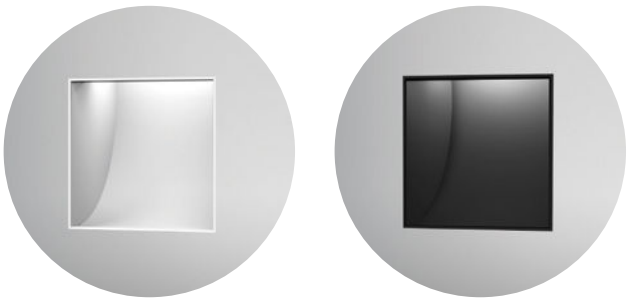
FLOOR WASHER - SQUARE

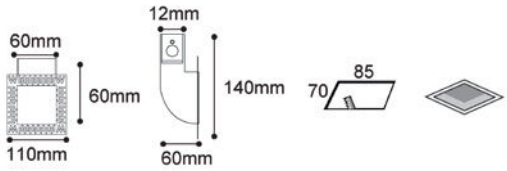






Description	McGill FW SQ TR
Mounting brackets	Trim
Wattage	7W
Current	700mA
Lumen output at source (lm/W) for 3000K luminaire	79 lm/W

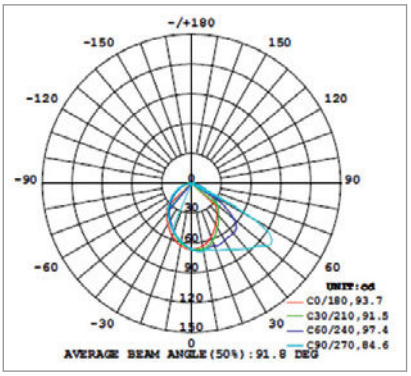


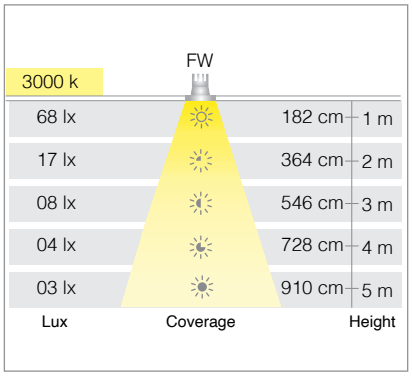


Description	McGill FW SQ TL
Mounting brackets	Trimless
Wattage	7W
Current	700mA
Lumen output at source (lm/W) for 3000K luminaire	79 lm/W

THE MCGILL SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

7W Luminaires





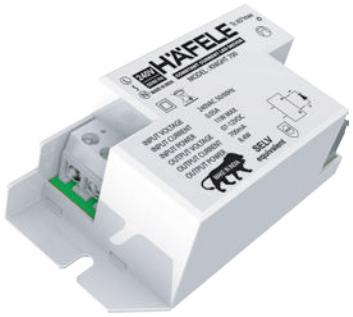
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE MCGILL SERIES: CONSTANT CURRENT DRIVERS

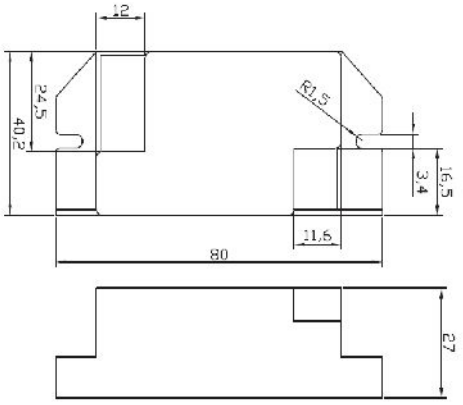
KNIGHT 700 - CONSTANT SINGLE CURRENT LED DRIVER, 700mA

IP20

- SELV equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output



Technical Specifications	
Article No.	833.30.969
Input Voltage	240VAC ±10% 50 Hz
Input Current	0.06A Max.
Input Power	11W Max.
Output Current	700mA
Output Voltage	7 - 12VDC
Output Power	8.4W
Power Factor	>0.85
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV DM)



THE MCGILL SERIES: CONSTANT CURRENT DRIVERS

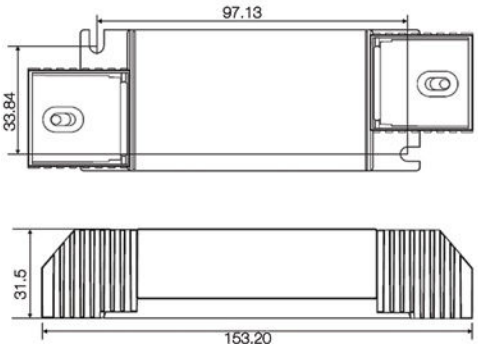
DUKE 700 - CONSTANT MULTI-CURRENT LED DRIVER, 400mA, 500mA, 600mA, 700mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.976
Input Voltage	240VAC ±20% 50Hz
Input Current	0.16A Max.
Input Power	36W Max.
Output Current	400mA, 500mA, 600mA, 700mA (±7%)
Output Voltage	33 - 43VDC
Output Power	30.1W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)



DUKE 700 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	700
ON	OFF	600
OFF	ON	500
OFF	OFF	400



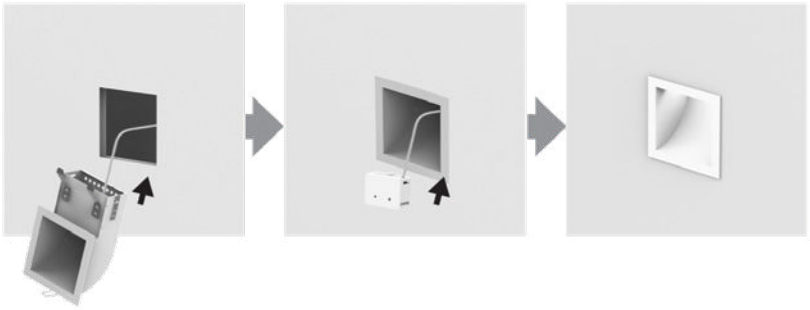
NOTE:

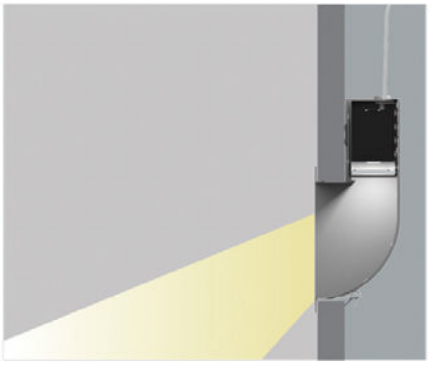
1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available
3. The McGill series allow automation by connecting to Dali compatible drivers.

THE MCGILL SERIES: INSTALLATION DETAILS

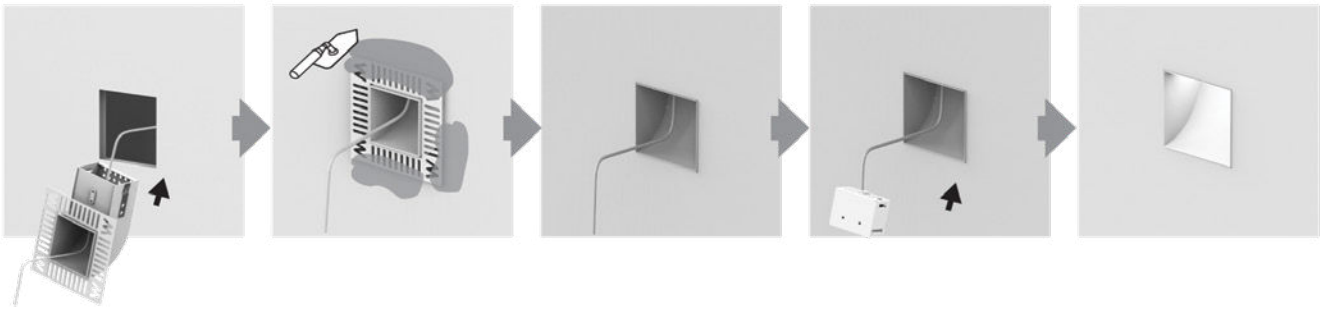
The plug-and-play concept of the luminaires from the McGill Series enables tool-free installation. Insert the luminaire housing into the cut-out made in the wall till the interior construction/renovation goes on. Simply insert the light engine, connect it to the driver lead and secure it in place once the renovation has been completed.

Floor washer installation with trim mounting bracket

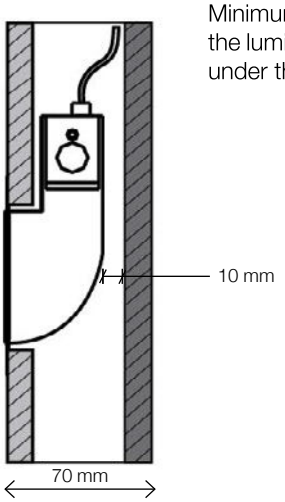




Floor washer installation with trimless mounting bracket



GAP REQUIRED FOR LUMINAIRE INSIDE WALL



Minimum 10 mm of gap from the wall to the edge of the luminaire is required for installation of all luminaires under the McGill series.

THE MCGILL SERIES: ORDERING INFORMATION

1. LUMINAIRE

Article No.	Wattage	Current	Mounting Bracket Type	Colour Temperature	Colour	Dimensions (mm)
833.12.630	7W	700mA	Trim	2700K	White	80 X 80 X 130
833.12.631	7W	700mA	Trim	3000K	White	80 X 80 X 130
833.12.632	7W	700mA	Trim	4000K	White	80 X 80 X 130
833.12.634	7W	700mA	Trim	2700K	Black	80 X 80 X130
833.12.635	7W	700mA	Trim	3000K	Black	80 X 80 X130
833.12.636	7W	700mA	Trim	4000K	Black	80 X 80 X130
833.12.860	7W	700mA	Trimless	2700K	White	110 X110 X 140
833.12.861	7W	700mA	Trimless	3000K	White	110 X110 X 140
833.12.862	7W	700mA	Trimless	4000K	White	110 X110 X 140
833.12.864	7W	700mA	Trimless	2700K	Black	110 X110 X 140
833.12.865	7W	700mA	Trimless	3000K	Black	110 X110 X 140
833.12.866	7W	700mA	Trimless	4000K	Black	110 X110 X 140

2. DRIVERS

Article No.	Description	Current
833.30.969	Knight 700 - Constant Single Current LED Driver, 700mA	700mA
833.30.976	Duke 700 - Constant Multi-Current LED Driver, 400mA, 500mA, 600mA, 700mA	700mA Max.



HÄFELE™
ARCHITECTURAL LIGHTS



CAMBRIDGE

Creating appealing interiors requires a combination of both, a well focused light highlighting specific areas or places of interest and a well spread out light illuminating other areas. This demands luminaires which offer visual precision by giving a precisely focused beam and those which offer a wider beam by giving an even light distribution. It thus becomes critical to carefully select the perfect downlight and spotlight that does justice to your interiors.

The Cambridge series downlights and spotlights offer this visual appeal and functionality by giving a focused beam of light with the pinhole variant and a more spread out beam using the cone variant. These luminaires have a lower unified glare rating (UGR) which enhances the visual experience.

Häfele's Cambridge series is a sleek and modern lighting solution that can be used for general lighting, task lighting and accent lighting, offering enhanced aesthetics, functionality and energy efficiency for both residential and commercial spaces giving you a well-illuminated and visually appealing environment.


HÄFELE
ARCHITECTURAL LIGHTS

THE CAMBRIDGE SERIES: MODULARIZATION CONCEPT

EXPLODED VIEW FOR FIXED LUMINAIRES (9W & 12W)



LIGHT ENGINE



Heat Sink
Absorbs the heat generated by the light engine and dissipates it into the environment, maintaining the required operating temperature.

LED Holder with LED Chip
Designed to mount the LED onto the fixture and to integrate it into the circuit.

Lens
Amplifies the light output from the LED.

Rubber Gasket
Prevents proliferation of moisture and dust particles.



Lens Protector
Protects the lens from scratches and smudges ensuring an unhindered light output.



Glare Reduction Add-ons
Different louvers help achieve different light effects. They help reduce the glare and diffuse the beam angle.





HOUSING (PINHOLE AND CONE)
Round or Square

The pinhole housing gives you a more focused beam by cutting off the additional light gradient outside the main beam, whereas the cone housing gives you a more spread out beam which is ideal for general lighting.





MOUNTING BRACKET
Provides support to attach the luminaire to the false ceiling structure.

THE CAMBRIDGE SERIES: MODULARIZATION CONCEPT

EXPLODED VIEW FOR TILTABLE LUMINAIRES (14W)



LIGHT ENGINE

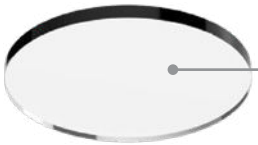


Heat Sink
Absorbs the heat generated by the light engine and dissipates it into the environment, maintaining the required operating temperature.

LED Holder with LED Chip
Designed to mount the LED onto the fixture and to integrate it into the circuit.

Lens
Amplifies the light output from the LED.

Rubber Gasket
Prevents proliferation of moisture and dust particles.



Lens Protector
Protects the lens from scratches and smudges ensuring an unhindered light output.

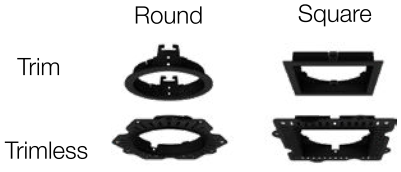


Glare Reduction Add-ons
Different louvers help achieve different light effects. They help reduce the glare and diffuse the beam angle.





HOUSING (PINHOLE AND CONE)
Round or Square
The pinhole housing gives you a more focused beam by cutting off the additional light gradient outside the main beam, whereas the cone housing gives you a more spread out beam which is ideal for general lighting.





MOUNTING BRACKET
Provides support to attach the luminaire to the false ceiling structure.

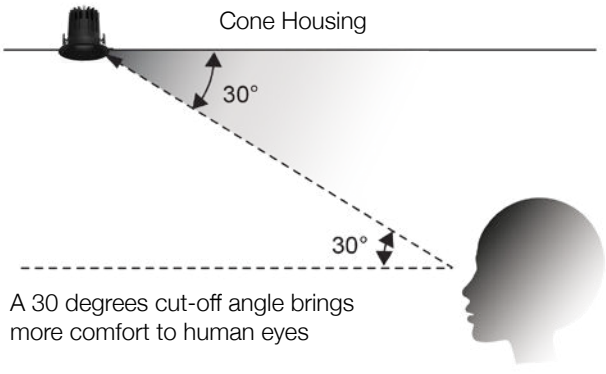
THE CAMBRIDGE SERIES: FEATURES

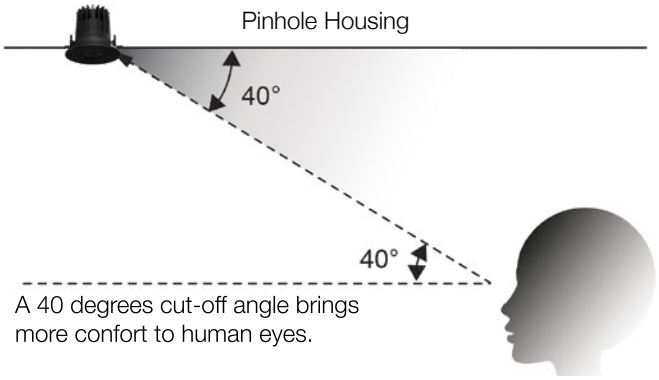
1. Modularization concept



The Cambridge series delivers flexibility and a variety of options for the customer to choose from. It comes with a modular design which enables you to independently select the light engine, housing and mounting bracket so as to assemble a luminaire configuration that best suits your installation requirement. The Cambridge series comes with square or round mounting brackets with trim or trimless installation options, fixed or tiltable cone and pinhole housing options and various glare reduction add-ons giving you flexibility not only in terms of aesthetics but also in terms of light distribution.

2. Low glare fixture





The greater the cut-off angle, the greater the visual comfort provided by the luminaire to the user due to glare* reduction. Designed with a 30° cut-off angle in case of cone housing and 40° in case of pinhole housing, the luminaires from the Cambridge Series ensure lower glare function that helps create a soft visual effect.

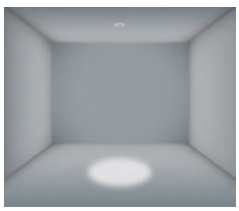
*Glare is a visual sensation caused by excessive and uncontrolled brightness at the light source.

3. Unified Glare Rating (UGR) of <19

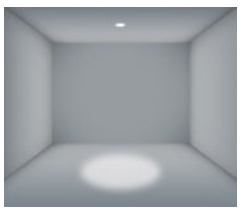
The lower the UGR rating, the lower the glare. In order to achieve comfortable illumination in your living spaces, the UGR of the luminaires is recommended to be below 20 which is easily achievable using Cambridge series luminaires since these have UGR rating of less than 19. UGR values range from 40 (extremely high glare) to 5 (very low glare).

4. Varied illumination outcomes

The smart pinhole housing design provides a narrow, concentrated light beam that limits the light spill outside the beam angle. Luminaires with pinhole housing are best used when you want to highlight an architectural feature or specific design element. The cone housing on the other hand offers a wider light beam with a gradient light spill which is perfect for general illumination.



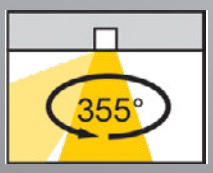
Luminaire with pinhole housing



Luminaire with cone housing

THE CAMBRIDGE SERIES: FEATURES

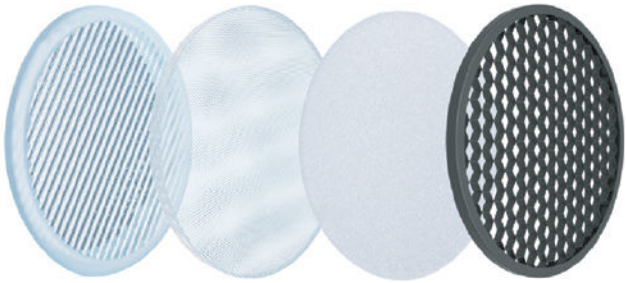
5. Swivel system



Round and tiltable luminaires in the Cambridge series can be tilted 30° as well as turned 355°. This gives you additional flexibility in adjusting the beam even after installing the luminaire.

6. Glare reduction add-ons





Striped Glass | Woven Glass | Diffusion Sheet | Honeycomb Louver



Standard Lens Protector (Transparent glass) | Striped Glass | Woven Glass | Diffusion Sheet | Honeycomb Louver

With numerous louver options to choose from, Cambridge adds more flexibility and freedom for the lighting designer. The Honeycomb louver reduces glare, striped glass creates oval distribution, diffusion sheet and woven glass soften and spread the light.

7. Easy assembly



The luminaires from the Cambridge Series follow the concept of plug and play and can be installed quickly and completely tool free. All you need to do is to assemble the luminaire by selecting the light engine, housing and mounting bracket. Attach the mounting bracket to the false ceiling till the interior construction/renovation goes on. Once completed, simply connect the assembled luminaire to the driver lead and fix it into the mounting bracket.

Note: The images used above are for representational purposes only and for easy understanding of the assembly process. The Cambridge series luminaires come with different design aesthetics.

THE CAMBRIDGE SERIES: DECODING THE NOMENCLATURE

Cambridge	9W	.2A	RD	TR	15°	27K	CN	BLK
	1	2	3	4	5	6	7	8

Number	Category	Abbreviation	Possibilities
1	Output	W	9 Watts
			12 Watts
			14 Watts
2	Current	.2A	200mA
		.3A	300mA
		.35A	350mA
3	Shape	RD	Round
		SQ	Square
4	Mounting Bracket Type	TR	Trim
		TL	Trimless
5	Beam Angle	°	15°
			20°
			24°
			30°
			50°
6	Colour Temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
7	Housing Type	CN	Cone
		PH	Pin hole
8	Housing Colour	BLK	Black

THE CAMBRIDGE SERIES: RANGE SPECIFICATIONS

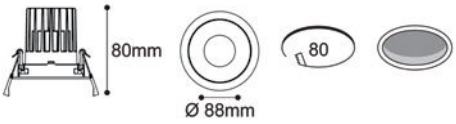
Luminaire type	Downlight and Spotlight
Colour temprature	2700K, 3000K, 4000K
CRI	>95
Wattage	9W, 12W, 14W
Current	200mA (9W), 300mA (12W), 350mA (14W)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W
Maximum ambient temperature	45° C
Material	Die cast Aluminium
Beam angle	15°, 20°, 24°, 30°, 50°
Body colour	Black
Average rated life	> 60,000 hrs.
Mounting technique	Recess
Degree of protection	IP44
Energy efficiency class	Class II
Certification	BIS (Bureau of Indian Standards)
Application	Indoors: Hotels, restaurants, residences, museums, galleries, showcases, conference rooms, etc.

THE CAMBRIDGE SERIES: RANGE SPECIFICATIONS

FIXED RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

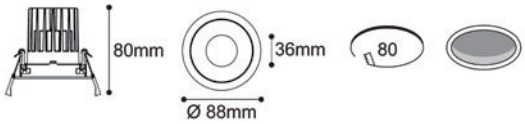
IP44 | UGR<19 | 355° | 9W, 12W





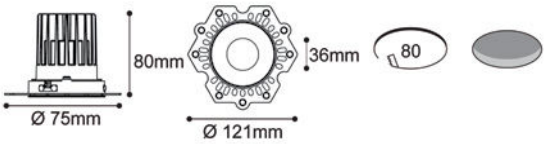
Housing type	Fixed
Description	Cambridge RD TR CN
Mounting brackets	Trim
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20°, 30°, 50°
Housing shape	Cone (CN)
Housing color	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





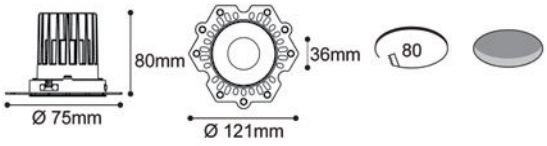
Housing type	Fixed
Description	Cambridge RD TR PH
Mounting brackets	Trim
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20°, 30°, 50°
Housing shape	Pinhole (PH)
Housing color	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





Housing type	Fixed
Description	Cambridge RD TL CN
Mounting brackets	Trimless
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20°, 30°, 50°
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





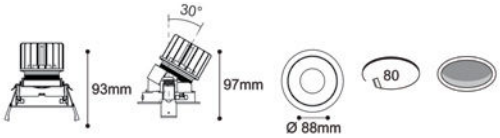
Housing type	Fixed
Description	Cambridge RD TL PH
Mounting brackets	Trimless
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20°, 30°, 50°
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

THE CAMBRIDGE SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHT AND DOWNLIGHT - ROUND

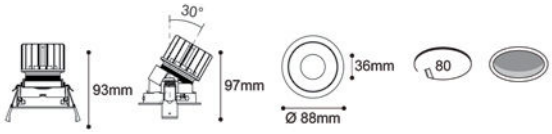
IP44 | UGR<19 | 30° | 14W





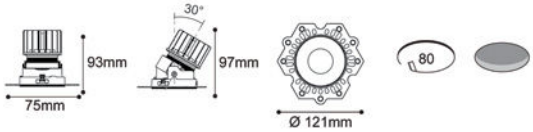
Housing type	Tiltable
Description	Cambridge TLT RD TR CN
Mounting brackets	Trim
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





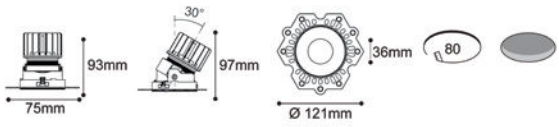
Husing type	Tiltable
Description	Cambridge TLT RD TR PH
Mounting bracket	Trim
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





Housing type	Tiltable
Description	Cambridge TLT RD TL CN
Mounting brackets	Trimless
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





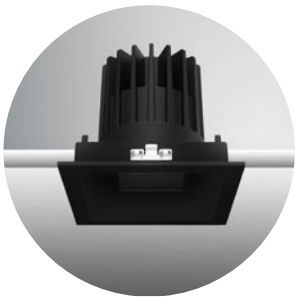
Housing type	Tiltable
Description	Cambridge TLT RD TL PH
Mounting brackets	Trimless
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

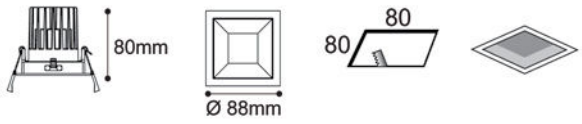
5 YEARS GUARANTEE*

THE CAMBRIDGE SERIES: RANGE SPECIFICATIONS

FIXED RECESSED SPOTLIGHT AND DOWNLIGHT - SQUARE

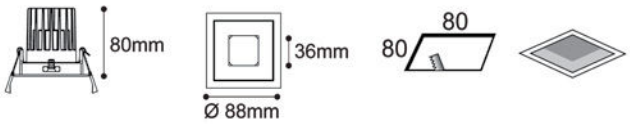
IP44 | UGR <19 | 9W, 12W





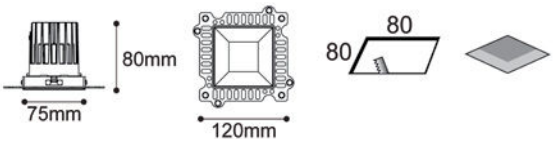
Housing type	Fixed
Description	Cambridge SQ TR CN
Mounting brackets	Trim
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20º, 30º, 50º
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





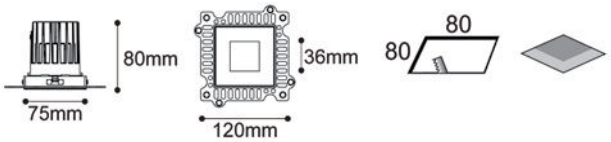
Housing type	Fixed
Description	Cambridge SQ TR PH
Mounting brackets	Trim
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20º, 30º, 50º
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





Housing type	Fixed
Description	Cambridge SQ TL CN
Mounting brackets	Trimless
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20º, 30º, 50º
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





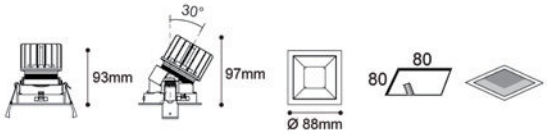
Housing type	Fixed
Description	Cambridge SQ TL PH
Mounting brackets	Trimless
Wattage	9W, 12W
Current	200mA (9W), 300mA (12W)
Beam angle	20º, 30º, 50º
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

THE CAMBRIDGE SERIES: RANGE SPECIFICATIONS

TILTABLE RECESSED SPOTLIGHTS / DOWNLIGHTS - ROUND

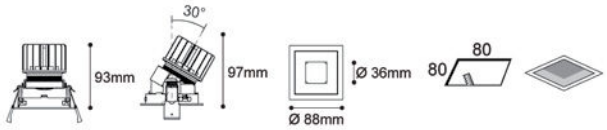
IP44 | UGR <19 | 30° | 14W





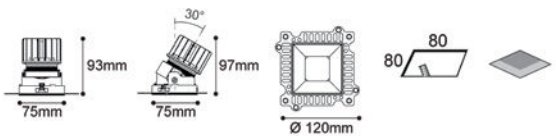
Housing type	Tiltable
Description	Cambridge TLT SQ TR CN
Mounting bracket	Trim
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





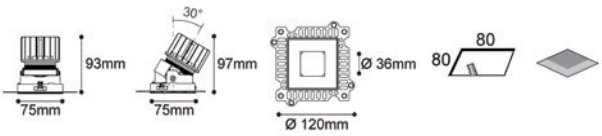
Housing type	Tiltable
Description	Cambridge TLT SQ TR PH
Mounting bracket	Trim
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W





Housing type	Tiltable
Description	Cambridge TLT SQ TL CN
Mounting bracket	Trimless
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Cone (CN)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W



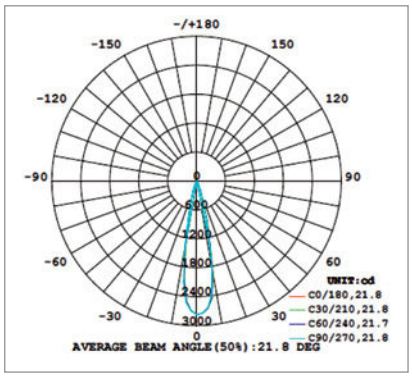


Housing type	Tiltable
Description	Cambridge TLT SQ TL PH
Mounting bracket	Trimless
Wattage	14W
Current	350mA
Beam angle	15°, 24°, 50°
Housing shape	Pinhole (PH)
Housing colour	Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	94 lm/W

THE CAMBRIDGE SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

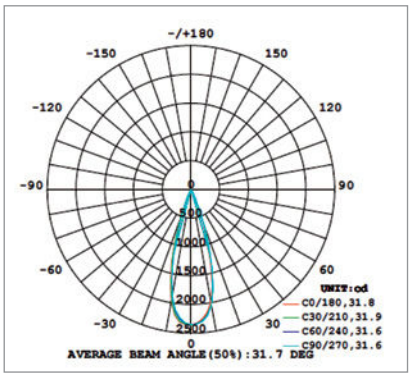
9W Luminaires

20° BEAM ANGLE, CONE



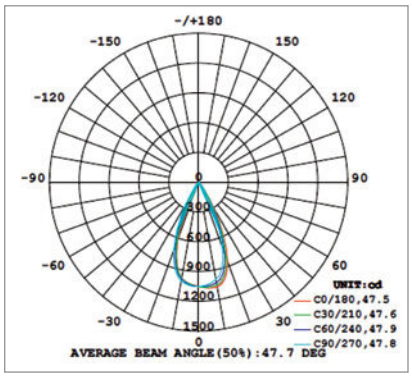
3000 k	20°	
2771 lx		39 cm – 1 m
693 lx		77 cm – 2 m
308 lx		116 cm – 3 m
173 lx		155 cm – 4 m
111 lx		193 cm – 5 m
Lux	Coverage	Height

30° BEAM ANGLE, CONE



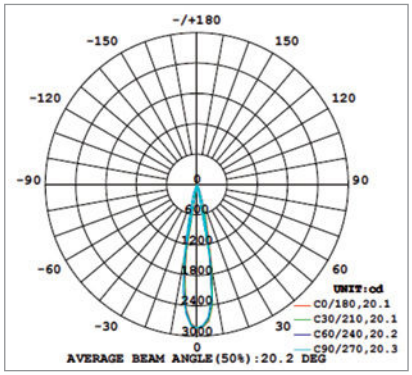
3000 k	30°	
2355 lx		57 cm – 1 m
589 lx		113 cm – 2 m
262 lx		170 cm – 3 m
147 lx		226 cm – 4 m
94 lx		283 cm – 5 m
Lux	Coverage	Height

50° BEAM ANGLE, CONE



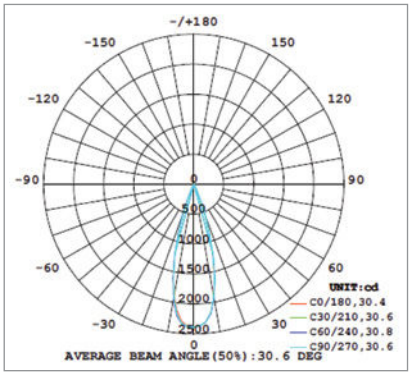
3000 k	50°	
1061 lx		88 cm – 1 m
265 lx		176 cm – 2 m
118 lx		264 cm – 3 m
66 lx		352 cm – 4 m
42 lx		440 cm – 5 m
Lux	Coverage	Height

20° BEAM ANGLE, PINHOLE



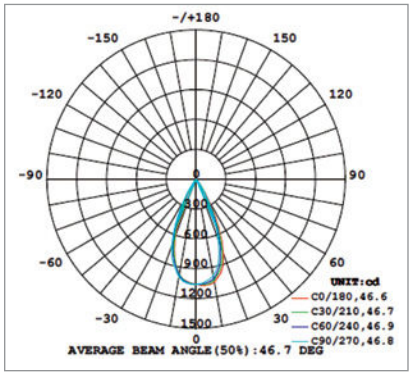
3000 k	20°	
2839 lx		36 cm – 1 m
710 lx		72 cm – 2 m
316 lx		107 cm – 3 m
177 lx		143 cm – 4 m
114 lx		179 cm – 5 m
Lux	Coverage	Height

30° BEAM ANGLE, PINHOLE



3000 k	30°	
2393 lx		54 cm – 1 m
598 lx		109 cm – 2 m
266 lx		163 cm – 3 m
150 lx		218 cm – 4 m
96 lx		272 cm – 5 m
Lux	Coverage	Height

50° BEAM ANGLE, PINHOLE



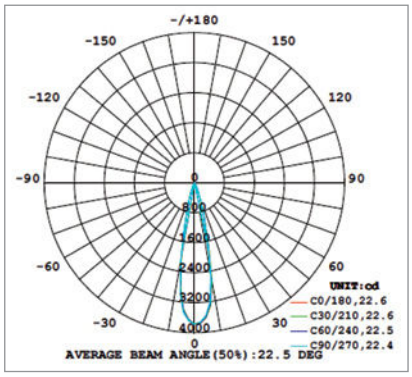
3000 k	50°	
1065 lx		86 cm – 1 m
266 lx		172 cm – 2 m
118 lx		258 cm – 3 m
67 lx		345 cm – 4 m
43 lx		431 cm – 5 m
Lux	Coverage	Height

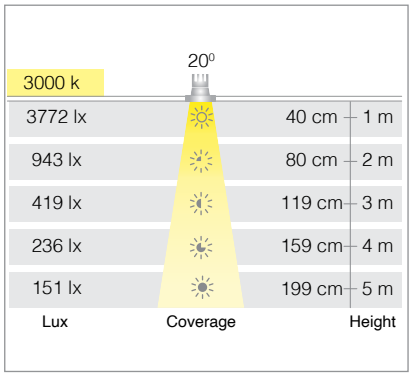
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE CAMBRIDGE SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

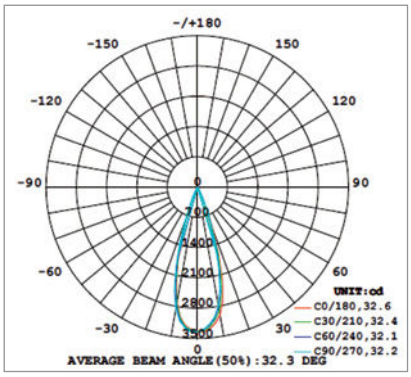
12W Luminaires

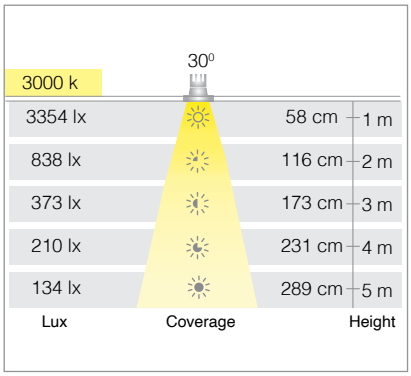
20° BEAM ANGLE, CONE



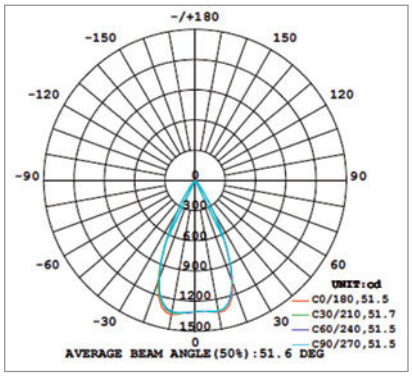


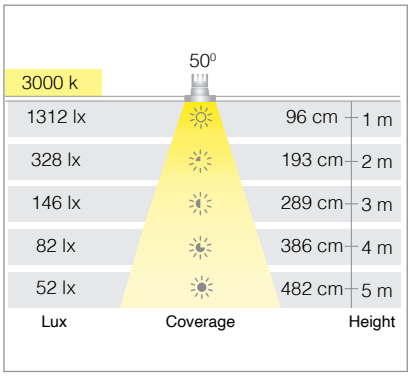
30° BEAM ANGLE, CONE



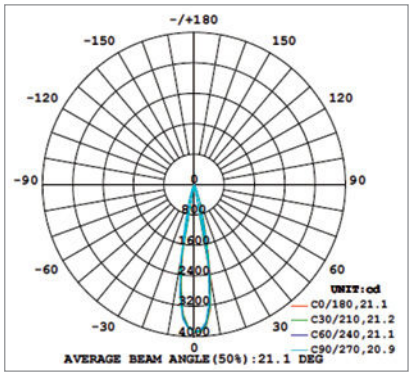


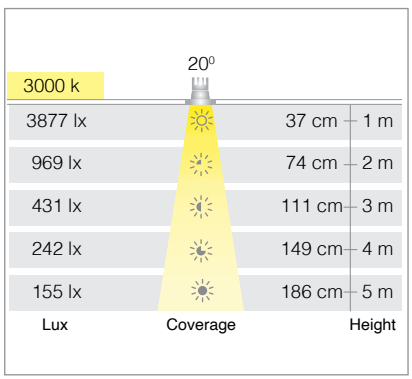
50° BEAM ANGLE, CONE



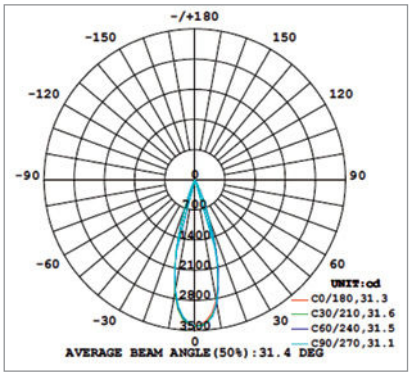


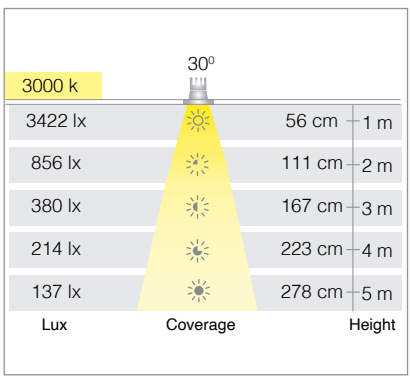
20° BEAM ANGLE, PINHOLE



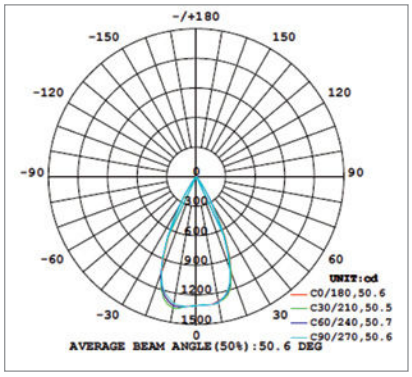


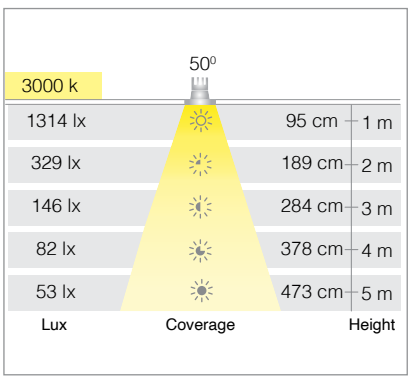
30° BEAM ANGLE, PINHOLE





50° BEAM ANGLE, PINHOLE



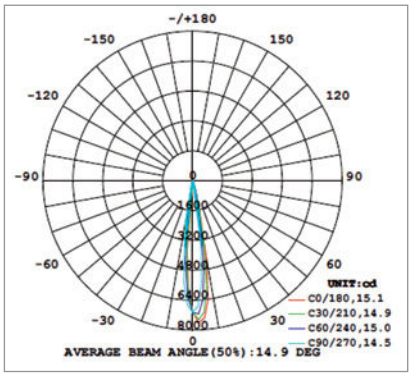


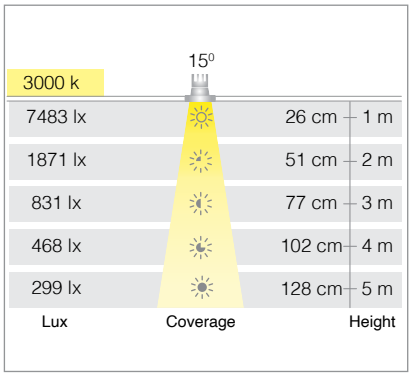
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE CAMBRIDGE SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

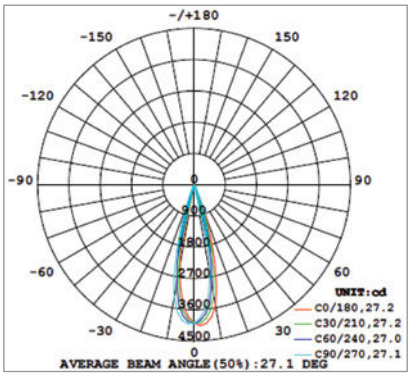
14W Luminaires

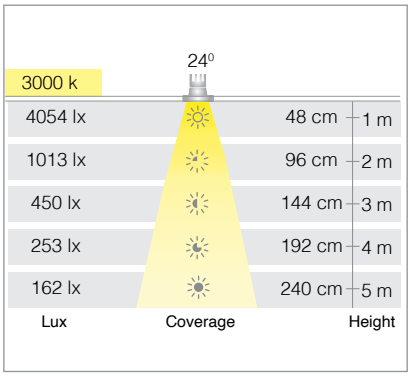
15° BEAM ANGLE, CONE



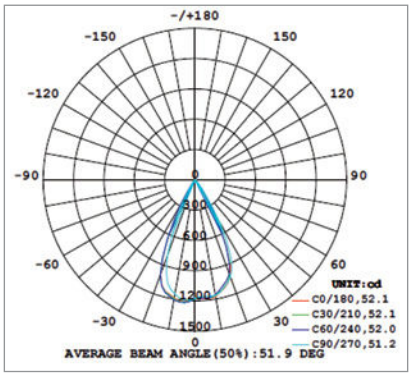


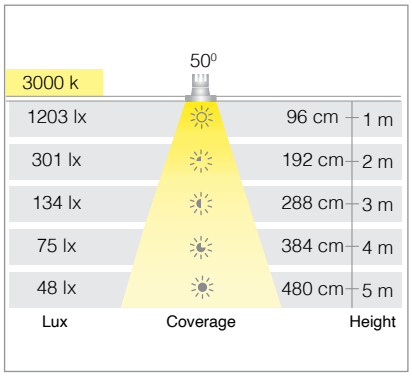
24° BEAM ANGLE, CONE



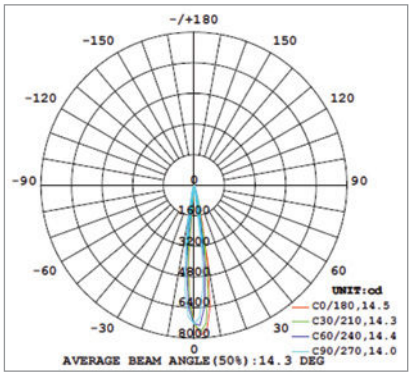


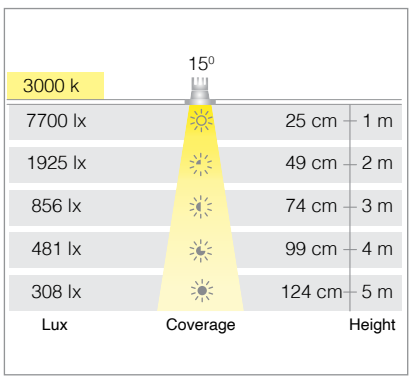
50° BEAM ANGLE, CONE



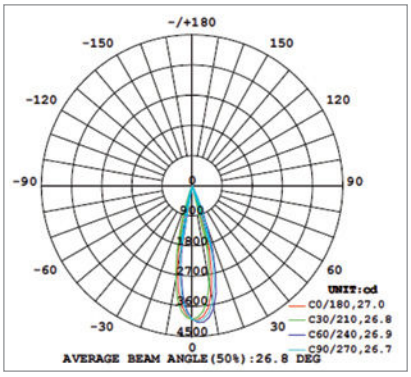


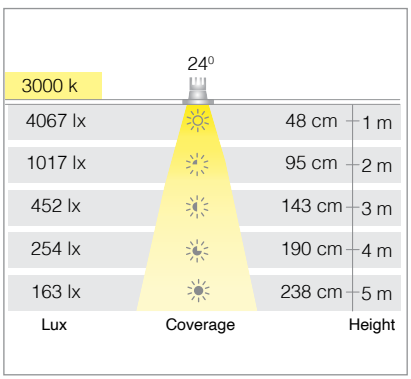
15° BEAM ANGLE, PINHOLE



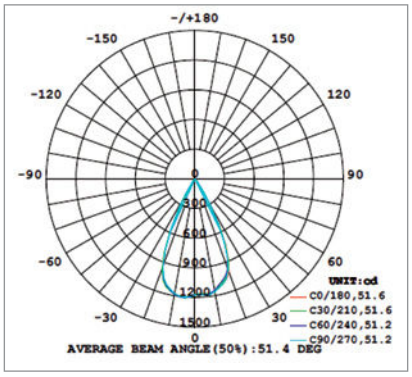


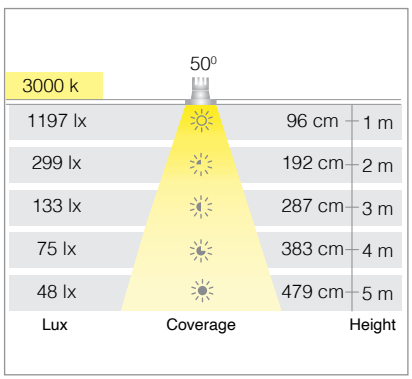
24° BEAM ANGLE, PINHOLE





50° BEAM ANGLE, PINHOLE





Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE CAMBRIDGE SERIES: CONSTANT CURRENT DRIVERS

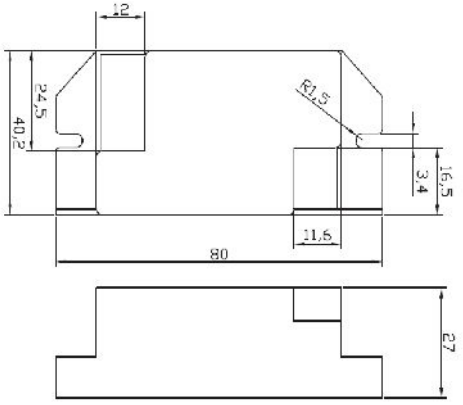
KNIGHT 200 - CONSTANT SINGLE CURRENT LED DRIVER, 200mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output



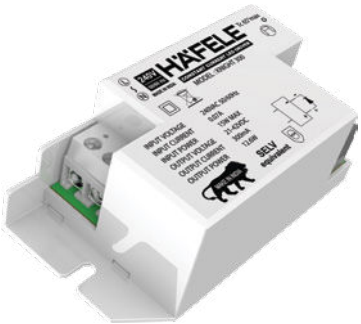
Technical Specifications	
Article No.	833.30.968
Input Voltage	240VAC ±10% 50/60 Hz
Input Current	0.05A Max.
Input Power	11W Max.
Output Current	200mA
Output Voltage	21 - 42VDC
Output Power	8.4W
Power Factor	>0.90
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)



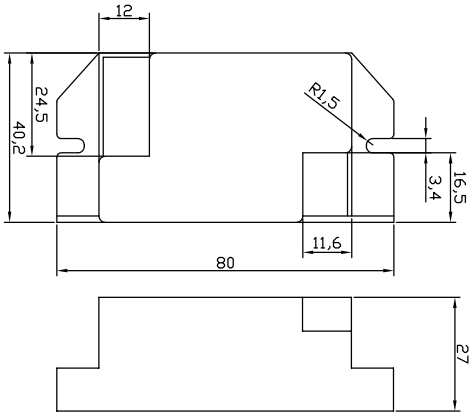
KNIGHT 300 - CONSTANT SINGLE CURRENT LED DRIVER, 300mA

IP20

- SELV equivalent
- Suitable for Class II fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.



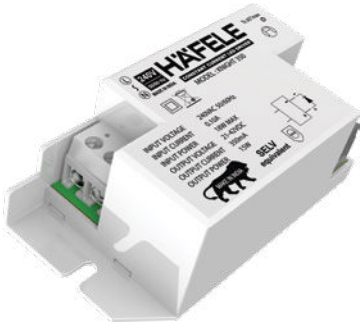
Technical Specifications	
Article No.	833.30.972
Input Voltage	240Vac ± 10%,50/60Hz
Input Current	0.07A Max.
Input Power	15W Max.
Output Current	300mA
Output Voltage	21 - 42VDC
Output Power	12.6W
Power Factor	>0.95
Ambient Operating Temperature Range	-10°C to +50°C
Input Surge Protection	Yes (Line-Neutral 3kV as per EN 61000-4-5)



THE CAMBRIDGE SERIES: CONSTANT CURRENT DRIVERS

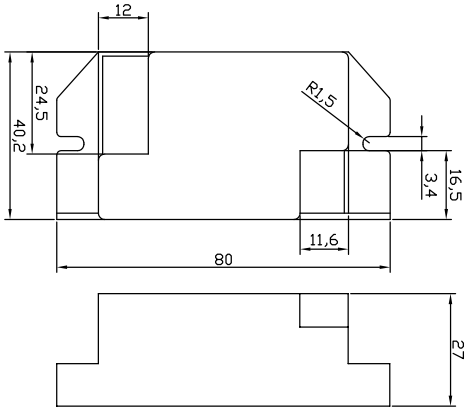
KNIGHT 350 - CONSTANT SINGLE CURRENT LED DRIVER, 350mA

IP20



- SELV Equivalent
- Suitable for Class II Fixtures
- Flicker-free output
- Suitable for dry locations
- Average rated life: 30,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

Technical Specifications	
Article No.	833.30.971
Input Voltage	240VAC ± 10% 50/60 Hz
Input Current	0.10A Max.
Input Power	18W Max.
Output Current	350mA
Output Voltage	21 - 42VDC
Output Power	15W
Power Factor	>0.95
Ambient operating temperature range	-10ºC to +50ºC
Input Surge Protection	Yes (Line-Neutral 3kV As per EN 61000-4-5)



THE CAMBRIDGE SERIES: CONSTANT CURRENT DRIVERS

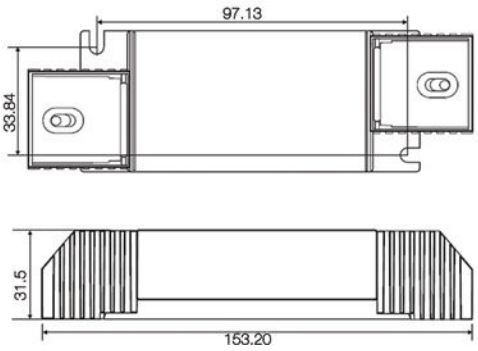
DUKE 500 - CONSTANT MULTI-CURRENT LED DRIVER, 250mA, 350mA, 450mA, 500mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.973
Input Voltage	240VAC ±20% 50Hz
Input Current	0.11A Max.
Input Power	27W Max.
Output Current	250mA, 350mA, 450mA, 500mA (±7%)
Output Voltage	33 - 43VDC
Output Power	22W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Protection	Yes (Line-Neutral 4kV)



DUKE 500 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	500
ON	OFF	450
OFF	ON	350
OFF	OFF	250



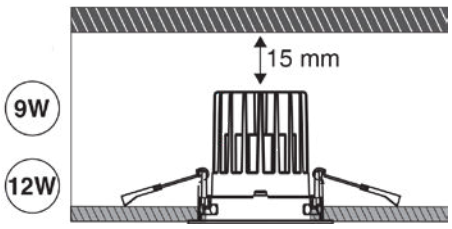
NOTE:

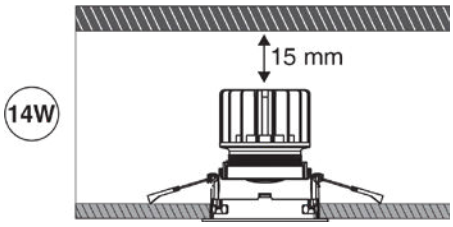
1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available
3. The Cambridge series downlights allow automation by connecting to Dali compatible drivers.

5 YEARS GUARANTEE*

THE CAMBRIDGE SERIES: INSTALLATION DETAILS

GAP BETWEEN TRUE CEILING AND LUMINAIRE





Minimum 15 mm of gap from the true ceiling to the top edge of the luminaire is required for installation of all luminaires under the Cambridge series, irrespective of their wattage.

THE CAMBRIDGE SERIES: ORDERING INFORMATION

1. LIGHT ENGINE

Article No.	Wattage	Current	Color Temperature	Beam Angle	Dimensions (mm)
833.12.916	9W	200mA	2700K	20°	Dia 70 x H 70
833.12.917	9W	200mA	3000K	20°	Dia 70 x H 70
833.12.918	9W	200mA	4000K	20°	Dia 70 x H 70
833.12.920	9W	200mA	2700K	30°	Dia 70 x H 70
833.12.921	9W	200mA	3000K	30°	Dia 70 x H 70
833.12.922	9W	200mA	4000K	30°	Dia 70 x H 70
833.12.924	9W	200mA	2700K	50°	Dia 70 x H 70
833.12.925	9W	200mA	3000K	50°	Dia 70 x H 70
833.12.926	9W	200mA	4000K	50°	Dia 70 x H 70
833.12.928	12W	300mA	2700K	20°	Dia 70 x H 70
833.12.929	12W	300mA	3000K	20°	Dia 70 x H 70
833.12.930	12W	300mA	4000K	20°	Dia 70 x H 70
833.12.932	12W	300mA	2700K	30°	Dia 70 x H 70
833.12.933	12W	300mA	3000K	30°	Dia 70 x H 70
833.12.934	12W	300mA	4000K	30°	Dia 70 x H 70
833.12.936	12W	300mA	2700K	50°	Dia 70 x H 70
833.12.937	12W	300mA	3000K	50°	Dia 70 x H 70
833.12.938	12W	300mA	4000K	50°	Dia 70 x H 70
833.12.956	14W	350mA	2700K	15°	Dia 63 x H 65
833.12.957	14W	350mA	3000K	15°	Dia 63 x H 65
833.12.958	14W	350mA	4000K	15°	Dia 63 x H 65
833.12.960	14W	350mA	2700K	24°	Dia 63 x H 65
833.12.961	14W	350mA	3000K	24°	Dia 63 x H 65
833.12.962	14W	350mA	4000K	24°	Dia 63 x H 65
833.12.964	14W	350mA	2700K	50°	Dia 63 x H 65
833.13.500	14W	350mA	3000K	50°	Dia 63 x H 65
833.13.501	14W	350mA	4000K	50°	Dia 63 x H 65

THE CAMBRIDGE SERIES: ORDERING INFORMATION

2. LOUVERS / GLARE REDUCTION ADD-ONS

Article No.	Description
833.13.563	Stanford/Cambridge Stripped Glass
833.13.566	Stanford/Cambridge Honeycomb Louver
833.13.571	Stanford/Cambridge Woven Glass
833.13.575	Stanford/Cambridge Diffusion Sheet

3. HOUSING

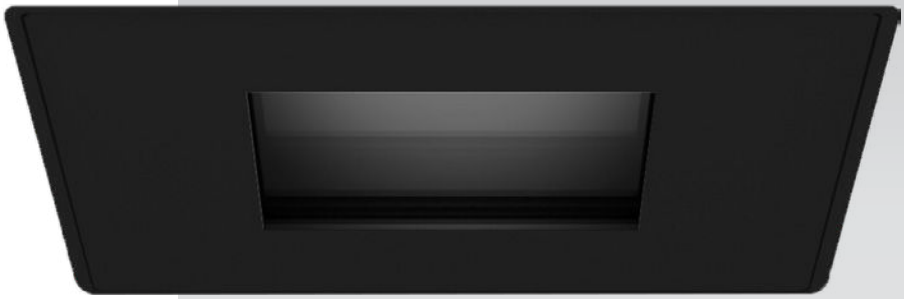
Article No	Wattage	Shape	Housing type	Baffle Type	Dimensions (mm)
833.12.944	9W, 12W	Round	Fixed	Cone	Dia 70 x H 20
833.12.945	9W, 12W	Round	Fixed	Pinhole	Dia 70 x H 23
833.12.946	9W, 12W	Square	Fixed	Cone	70 x 70 x 20
833.12.947	9W, 12W	Square	Fixed	Pinhole	70 x 70 x 20
833.13.507	14W	Round	Tiltable	Cone	Dia 70 x H 25
833.13.508	14W	Round	Tiltable	Pinhole	Dia 70 x H 23
833.13.509	14W	Square	Tiltable	Cone	70 x 70 x 20
833.13.510	14W	Square	Tiltable	Pinhole	70 x 70 x 23

4. MOUNTING BRACKET

Article No.	Shape	Type	Wattage	Dimensions (mm)
833.12.949	Round	Trim	9W, 12W	Dia 100 x H 50
833.12.953	Square	Trim	9W, 12W	100 x 100 x 50
833.12.951	Round	Trimless	9W, 12W	Dia 122 x H 18
833.12.955	Square	Trimless	9W, 12W	125 x 125 x 18
833.13.512	Round	Trim	14W	Dia 100 x H 50
833.13.517	Square	Trim	14W	100 x 100 x 50
833.13.514	Round	Trimless	14W	Dia 122 x H 18
833.13.519	Square	Trimless	14W	125 x 125 x 18

5. DRIVERS

Article No.	Description	Current
833.30.968	Knight 200 - Constant Single Current LED Driver, 200mA	200mA
833.30.972	Knight 300 - Constant Single Current LED Driver, 300mA	300mA
833.30.971	Knight 350 - Constant Single Current LED Driver, 350mA	350mA
833.30.973	Duke 500 - Constant Multi-Current LED Driver, 250mA, 350mA, 450mA, 500mA	500mA Max.





HÄFELE™
ARCHITECTURAL LIGHTS



HÄFELE
ARCHITECTURAL LIGHTS



EDINBURGH

Harmony in interior design is achieved by using colours that go well with each other. The element that further enhances this harmony is a lighting range that fulfills all of your interior lighting needs with a uniform luminaire design.

The Edinburgh series from Hafele's Architectural Lights range makes your interior design complete by offering light fixtures with a similar design that can be used for true ceiling as well as false ceiling installations. Drivers already built into the luminaires increase the ease of installation, whereas multiple design options like recess mounted lights with multiple application possibilities that go into false ceiling, surface mounted lights with swivel motion and suspended lights that go on true ceiling give you the freedom of installation. Offering a low UGR, the light output of this series gives you a comfortable visual experience.

These luminaires, available in natural white, warm white and cool white light colours, along with baffle colour options of black, white and bronze, are the perfect solution for creating the ultimate harmony in your interiors.

THE EDINBURGH SERIES: FEATURES

1. Recess mounted fixtures with multiple application possibilities



The same fixture of recess mounted luminaires can be used as surface mounted light, recess mounted light and surface mounted light with swivel motion. The luminaire can be used as recess mounted light by completely pushing it in, as surface mounted light by partially pulling it out and as surface mounted light with swivel motion by completely pulling it out.

2. Diverse range of applications



Surface mounted swivel



Surface mounted (fixed)

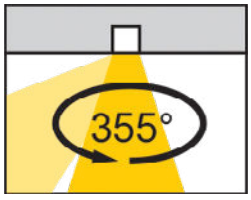


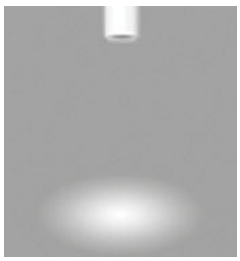
Suspended

In addition to recess mounted, luminaires from this series are also available in various fixture options like surface mounted swivel, surface mounted (fixed) and suspended. Edinburgh series thus offers you diverse applications by providing you different lighting options. These luminaires can be used as downlights and spotlights with the exception of surface mounted swivel where, in addition, you can also adjust the beam to focus on the wall, thereby illuminating every aspect of your interior. Also, these luminaires are available in different baffle colours - white, black and bronze, and body colours - black and white.

3. Swivel system

Recess mounted and surface mounted swivel luminaires from Edinburgh series can be tilted to up to 90° as well as turned 355°. This gives you additional flexibility in adjusting the beam even after installing the luminaires.

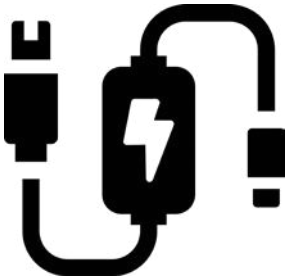




4. Uniform light distribution

Luminaires from this series offer a uniform light distribution with a smooth gradient. This highlights the interiors evenly and gives a comfortable visual experience.

THE EDINBURGH SERIES: FEATURES



5. In-built drivers

Surface mounted swivel, surface mounted (fixed) and suspended luminaires from this series come with in-built drivers and thus can be directly connected to the 230VAC mains power supply. This makes Edinburgh series luminaires easy and convenient to install and require less space.

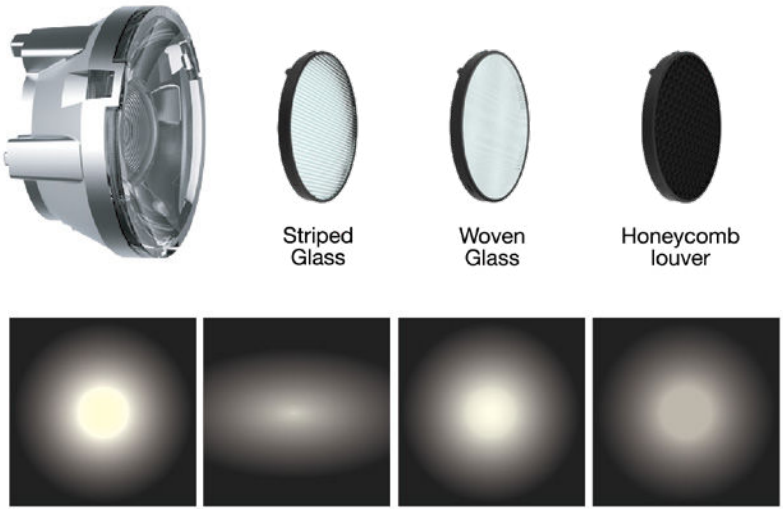
Note: Recess mounted swivel luminaires require external drivers.



6. Unified Glare Rating (UGR) of <19

The lower the UGR rating, the lower the glare. In order to achieve comfortable illumination in your living spaces, the UGR of the luminaires is recommended to be below 20 which is easily achievable using Edinburgh series luminaires since these have UGR rating of less than 19. UGR values range from 40 (extremely high glare) to 5 (very low glare).

7. Glare reduction add-ons



Standard Lens Protector (Transparent glass) | Striped Glass | Woven Glass | Honeycomb Louver

With numerous louver options to choose from, 15W luminaires from Edinburgh series add more flexibility and freedom for the lighting designer. The honeycomb louver reduces glare, striped glass creates oval distribution and woven glass softens and spreads the light.

8. Easy assembly

The luminaires from the Edinburgh Series follow the concept of plug and play and can be installed quickly and completely tool free. All you need to do is to attach the mounting bracket (in case of recessed lights) to the false ceiling till the interior construction/renovation goes on. Once the interior work is done, simply connect the luminaire to the 230VAC supply or to the compatible driver and insert the luminaire into the mounting bracket (in case of recessed lights) or fix them directly on the surface (in case of surface mounted lights).

THE EDINBURGH SERIES: DECODING THE NOMENCLATURE

Edinburgh	7W	.7A	RD	TR	SW	18°	27K	WH	BZ
	1	2	3	4	5	6	7	8	9

Number	Category	Abbreviation	Possibilities
1	Output	W	7 Watts
			13 Watts
			15 Watts
2	Current	.7A	700mA
		.3A	300mA
		.35A	350mA
3	Shape	RD	Round
		SQ	Square
4	Mounting Bracket Type	TR	Trim
		TL	Trimless
5	Mounting Technique	SWL	Swivel
		SM	Surface Mounted
		SS	Suspended
6	Beam Angle	18°	18 degree
		24°	24 degree
		36°	36 degree
7	Colour Temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
8	Body Colour	BLK	Black
		WH	White
9	Baffle Colour	BLK	Black
		WH	White
		BZ	Bronze

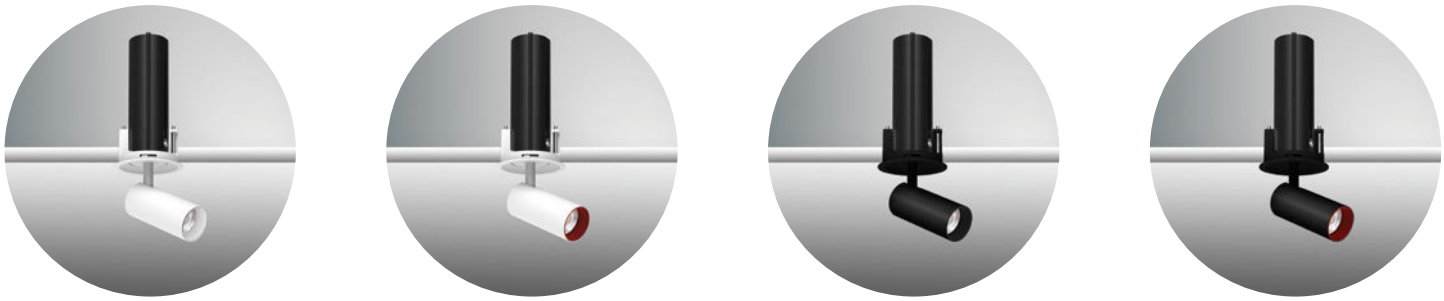
THE EDINBURGH SERIES: RANGE SPECIFICATIONS

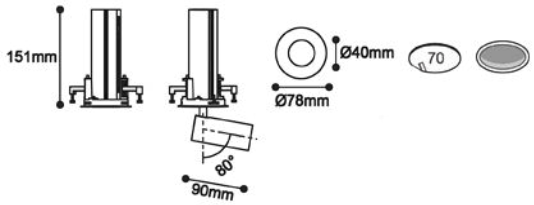
Luminaire type	Downlight and Spotlight
Colour temperature	2700K, 3000K, 4000K
CRI	>95
Wattage	7W, 13W, 15W
Current	300mA (13W), 350mA (7W, 15W), 700mA (7W)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W (7W), 105 lm/W (13W), 95 lm/W (15W)
Maximum ambient temperature	45° C
Material	Die cast aluminium
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White, Black, Bronze
Average rated life	> 60,000 hrs.
Degree of protection	IP44
Energy efficiency class	Class II
Certification	BIS (Bureau of Indian Standards)
Applications	Indoors: Residential areas, shopping malls, shops, hotel rooms, restaurants & bars, showrooms, offices

THE EDINBURGH SERIES: RANGE SPECIFICATIONS

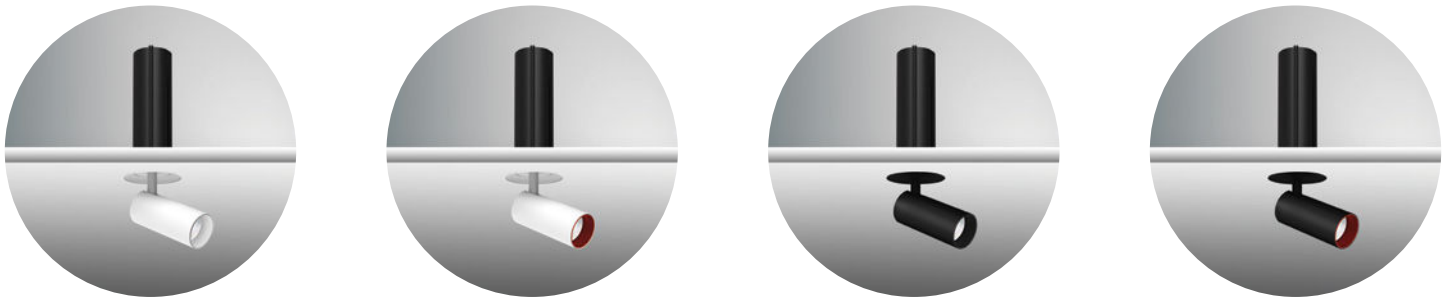
RECESS MOUNTED SWIVEL DOWNLIGHT AND SPOTLIGHT - ROUND

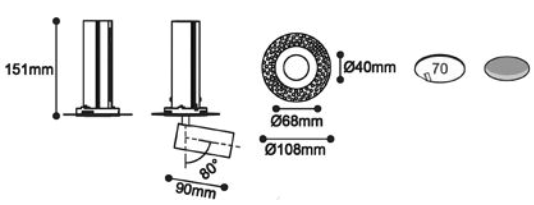






Description	Edinburgh RD TR SWL
Mounting technique	Recess
Mounting bracket type	Trim
Housing type	Swivel
Wattage	7W
Current	700mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Driver	Knight 700 Constant Current LED Driver, 700mA



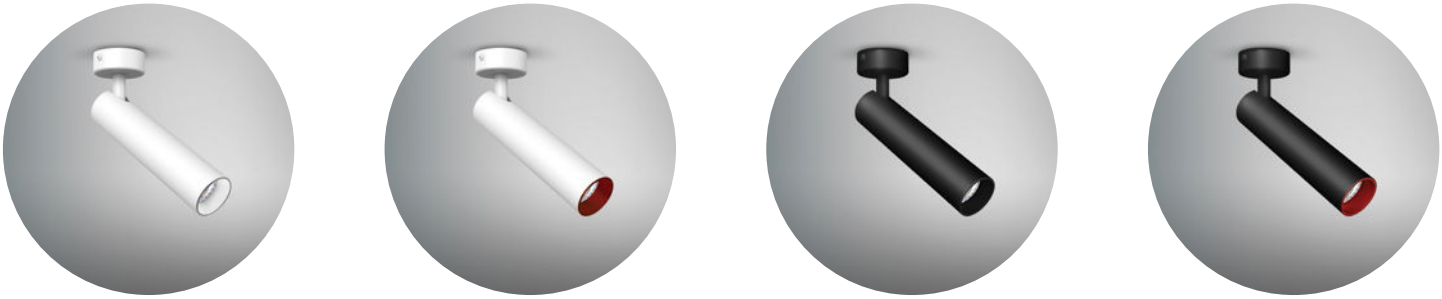


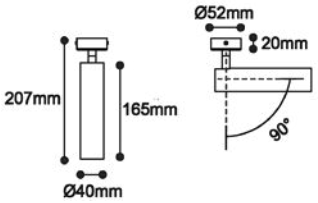
Description	Edinburgh RD TL SWL
Mounting technique	Recess
Mounting bracket type	Trimless
Housing type	Swivel
Wattage	7W
Current	700mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Driver	Knight 700 Constant Current LED Driver, 700mA

THE EDINBURGH SERIES: RANGE SPECIFICATIONS

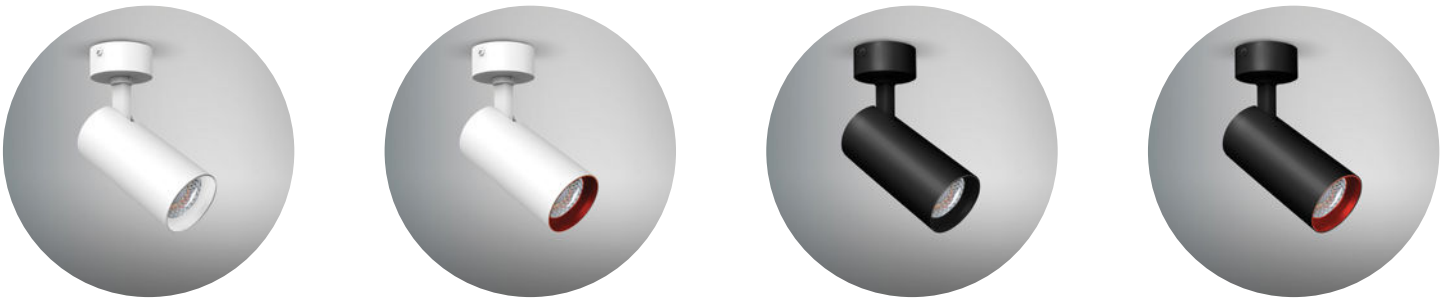
SURFACE MOUNTED SWIVEL DOWNLIGHT AND SPOTLIGHT - ROUND

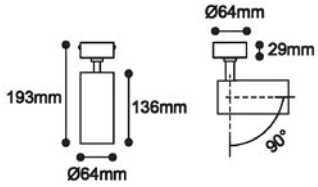






Description	Edinburgh RD SM SWL
Mounting technique	Surface Mounted
Housing type	Swivel
Wattage	7W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Driver	In-built - direct connection to 230VAC, 50Hz power supply





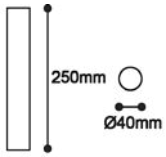
Description	Edinburgh RD SM SWL
Mounting technique	Surface Mounted
Housing type	Swivel
Wattage	15W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	95 lm/W
Driver	In-built - direct connection to 230VAC, 50Hz power supply

THE EDINBURGH SERIES: RANGE SPECIFICATIONS

SURFACE MOUNTED (FIXED) DOWNLIGHT AND SPOTLIGHT - ROUND

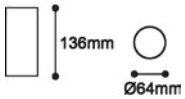






Description	Edinburgh RD SM
Mounting technique	Surface Mounted
Housing type	Fixed
Wattage	7W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Driver	In-built - direct connection to 230VAC, 50Hz power supply





Description	Edinburgh RD SM
Mounting technique	Surface Mounted
Housing type	Fixed
Wattage	15W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	95 lm/W
Driver	In-built - direct connection to 230VAC, 50Hz power supply

THE EDINBURGH SERIES: RANGE SPECIFICATIONS

SUSPENDED DOWNLIGHT AND SPOTLIGHT - ROUND

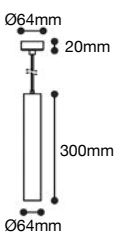






Description	Edinburgh RD SS
Mounting technique	Suspended
Housing type	Fixed
Wattage	7W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Suspension cable length (supplied with luminaire)	2 m
Driver	In-built - direct connection to 230VAC, 50Hz power supply





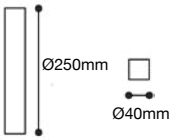
Description	Edinburgh RD SS
Mounting technique	Suspended
Housing type	Fixed
Wattage	13W
Current	300mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	105 lm/W
Suspension cable length (supplied with luminaire)	2 m
Driver	In-built - direct connection to 230VAC, 50Hz power supply

THE EDINBURGH SERIES: RANGE SPECIFICATIONS

SURFACE MOUNTED (FIXED) DOWNLIGHT AND SPOTLIGHT - SQUARE





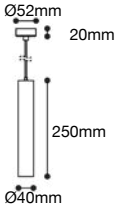


Description	Edinburgh SQ SM
Mounting technique	Surface Mounted
Housing type	Fixed
Wattage	7W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Driver	In-built - direct connection to 230VAC, 50Hz power supply

SUSPENDED DOWNLIGHT AND SPOTLIGHT - SQUARE





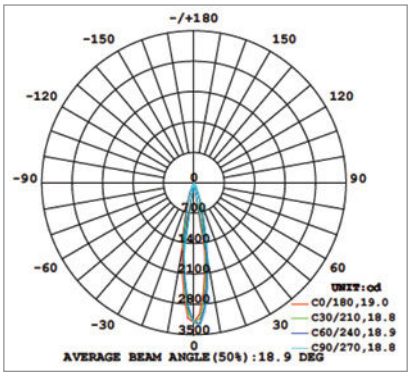


Description	Edinburgh SQ SS
Mounting technique	Suspended
Housing type	Fixed
Wattage	7W
Current	350mA
Beam angle	18°, 24°, 36°
Body colour	White, Black
Baffle colour	White (WH), Black (BLK), Bronze (BZ)
Lumen output at source (lm/W) for 3000K luminaire	110 lm/W
Suspension cable length (supplied with luminaire)	2 m
Driver	In-built - direct connection to 230VAC, 50Hz power supply

THE EDINBURGH SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

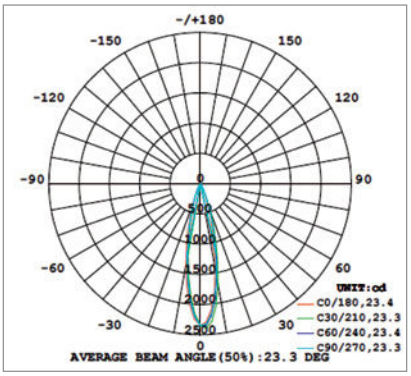
Recess mounted swivel, 7W - Edinburgh 7W SWL

18° BEAM ANGLE



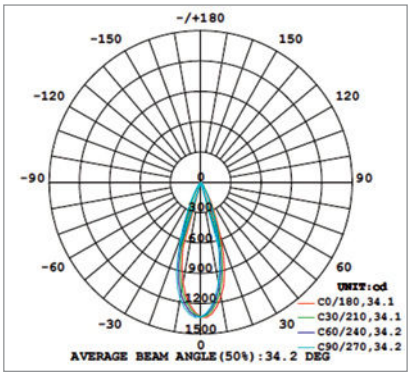
3000 k	18°	
2189 lx	33 cm	1 m
5472 lx	67 cm	2 m
2432 lx	100 cm	3 m
1368 lx	133 cm	4 m
8755 lx	167 cm	5 m
Lux	Coverage	Height

24° BEAM ANGLE



3000 k	24°	
1572 lx	41 cm	1 m
3930 lx	83 cm	2 m
1747 lx	124 cm	3 m
9824 lx	166 cm	4 m
6287 lx	207 cm	5 m
Lux	Coverage	Height

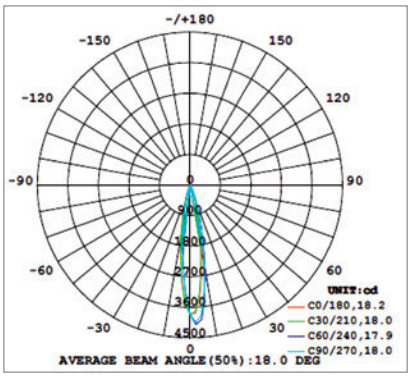
36° BEAM ANGLE



3000 k	36°	
9068 lx	61 cm	1 m
2267 lx	123 cm	2 m
1008 lx	184 cm	3 m
5668 lx	246 cm	4 m
3627 lx	307 cm	5 m
Lux	Coverage	Height

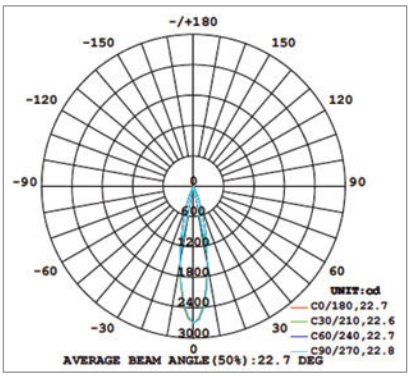
Surface mounted swivel, 7W - Edinburgh 7W SM SWL

18° BEAM ANGLE



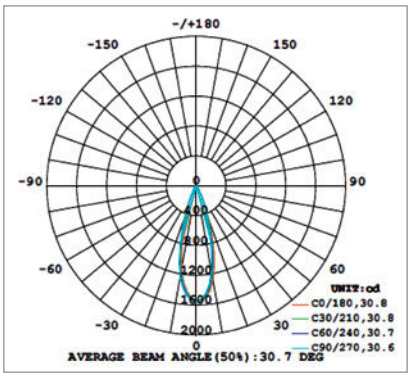
3000 k	18°	
2596 lx	32 cm	1 m
6489 lx	64 cm	2 m
2884 lx	96 cm	3 m
1622 lx	128 cm	4 m
1038 lx	159 cm	5 m
Lux	Coverage	Height

24° BEAM ANGLE



3000 k	24°	
2702 lx	40 cm	1 m
676 lx	81 cm	2 m
300 lx	121 cm	3 m
169 lx	161 cm	4 m
108 lx	201 cm	5 m
Lux	Coverage	Height

36° BEAM ANGLE



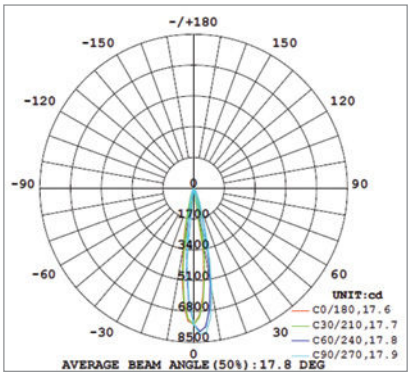
3000 k	36°	
1552 lx	55 cm	1 m
388 lx	110 cm	2 m
173 lx	165 cm	3 m
97 lx	219 cm	4 m
62 lx	274 cm	5 m
Lux	Coverage	Height

Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE EDINBURGH SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

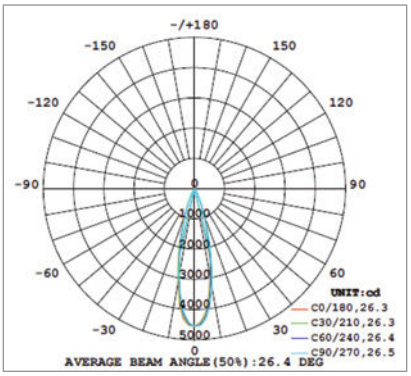
Surface mounted swivel, 15W - Edinburgh 15W SM SWL

18° BEAM ANGLE



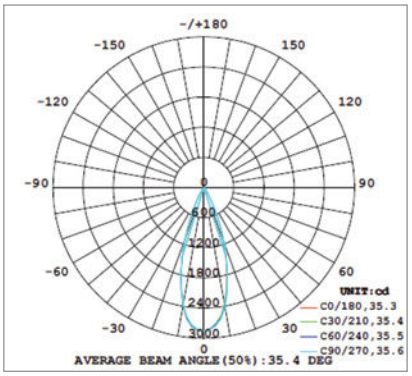
18°		
3000 k		
7982 lx	31 cm	1 m
1996 lx	63 cm	2 m
887 lx	94 cm	3 m
499 lx	125 cm	4 m
319 lx	156 cm	5 m
Lux	Coverage	Height

24° BEAM ANGLE



24°		
3000 k		
4667 lx	47 cm	1 m
1167 lx	93 cm	2 m
519 lx	140 cm	3 m
292 lx	187 cm	4 m
187 lx	233 cm	5 m
Lux	Coverage	Height

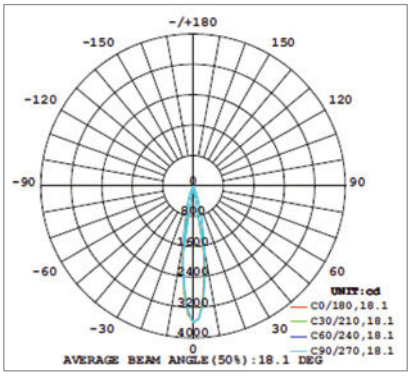
36° BEAM ANGLE



36°		
3000 k		
2871 lx	64 cm	1 m
718 lx	127 cm	2 m
319 lx	191 cm	3 m
179 lx	255 cm	4 m
115 lx	319 cm	5 m
Lux	Coverage	Height

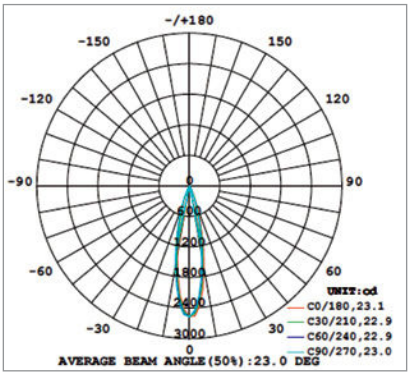
Surface mounted (fixed), round, 7W - Edinburgh 7W RD SM

18° BEAM ANGLE



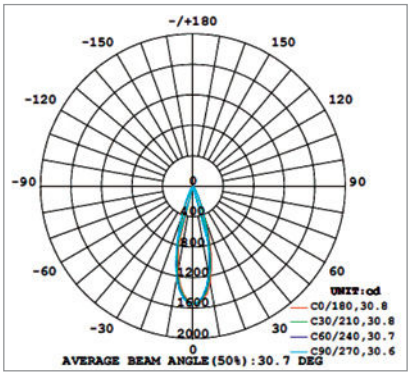
18°		
3000 k		
3602 lx	32 cm	1 m
901 lx	64 cm	2 m
400 lx	96 cm	3 m
225 lx	128 cm	4 m
144 lx	160 cm	5 m
Lux	Coverage	Height

24° BEAM ANGLE



24°		
3000 k		
2576 lx	41 cm	1 m
644 lx	82 cm	2 m
286 lx	123 cm	3 m
161 lx	163 cm	4 m
103 lx	204 cm	5 m
Lux	Coverage	Height

36° BEAM ANGLE



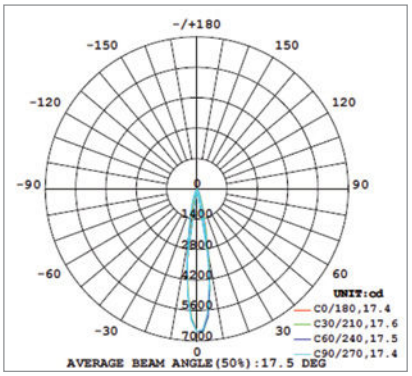
36°		
3000 k		
1552 lx	55 cm	1 m
388 lx	110 cm	2 m
173 lx	165 cm	3 m
97 lx	219 cm	4 m
62 lx	274 cm	5 m
Lux	Coverage	Height

Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE EDINBURGH SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

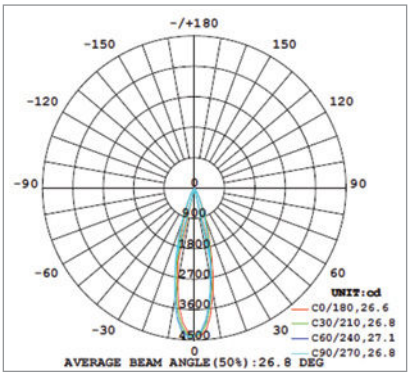
Surface mounted (fixed), round, 15W - Edinburgh 15W RD SM

18° BEAM ANGLE



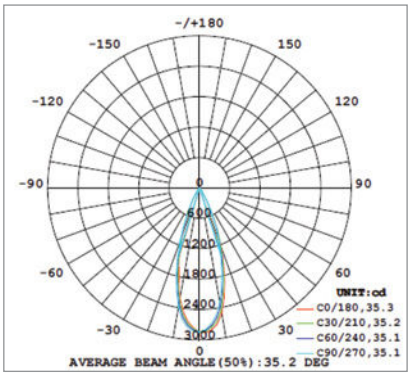
18°		
3000 k		
6611 lx		31 cm — 1 m
1653 lx		61 cm — 2 m
735 lx		92 cm — 3 m
413 lx		123 cm — 4 m
264 lx		154 cm — 5 m
Lux	Coverage	Height

24° BEAM ANGLE



24°		
3000 k		
4412 lx		47 cm — 1 m
1103 lx		95 cm — 2 m
490 lx		142 cm — 3 m
276 lx		189 cm — 4 m
177 lx		237 cm — 5 m
Lux	Coverage	Height

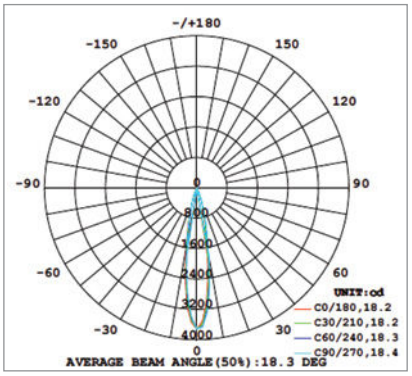
36° BEAM ANGLE



36°		
3000 k		
2852 lx		63 cm — 1 m
713 lx		127 cm — 2 m
317 lx		190 cm — 3 m
178 lx		253 cm — 4 m
114 lx		317 cm — 5 m
Lux	Coverage	Height

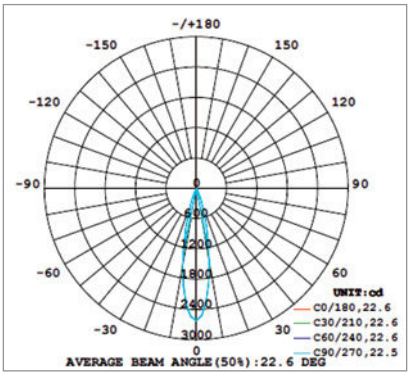
Suspended, round, 7W - Edinburgh 7W RD SS

18° BEAM ANGLE



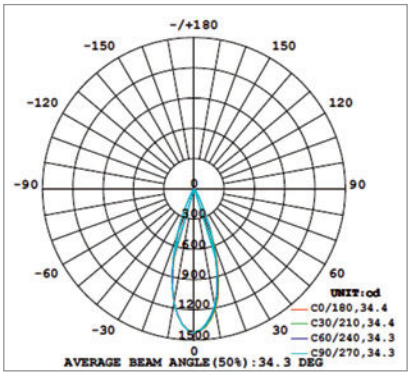
18°		
3000 k		
3728 lx		32 cm — 1 m
932 lx		64 cm — 2 m
414 lx		96 cm — 3 m
233 lx		129 cm — 4 m
149 lx		161 cm — 5 m
Lux	Coverage	Height

24° BEAM ANGLE



24°		
3000 k		
2624 lx		40 cm — 1 m
656 lx		80 cm — 2 m
292 lx		120 cm — 3 m
164 lx		160 cm — 4 m
105 lx		200 cm — 5 m
Lux	Coverage	Height

36° BEAM ANGLE



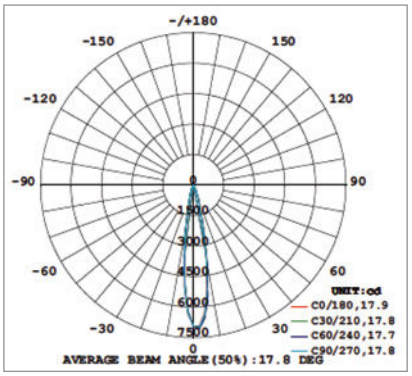
36°		
3000 k		
1423 lx		62 cm — 1 m
356 lx		123 cm — 2 m
158 lx		185 cm — 3 m
89 lx		247 cm — 4 m
57 lx		309 cm — 5 m
Lux	Coverage	Height

Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE EDINBURGH SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

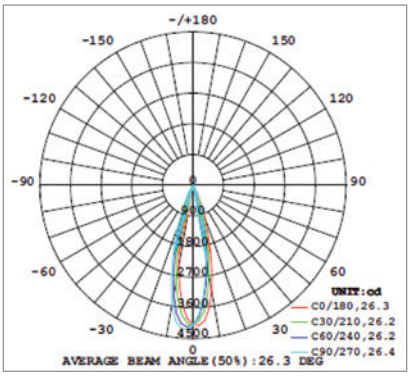
Suspended, round, 13W - Edinburgh 13W RD SS

18° BEAM ANGLE



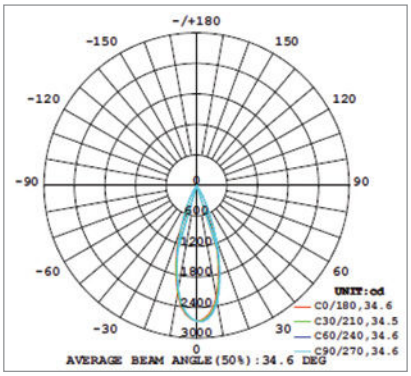
18°			
3000 k			
7017 lx		31 cm	1 m
1754 lx		63 cm	2 m
780 lx		94 cm	3 m
439 lx		125 cm	4 m
281 lx		157 cm	5 m
Lux	Coverage		Height

24° BEAM ANGLE



24°			
3000 k			
4209 lx		47 cm	1 m
1052 lx		93 cm	2 m
468 lx		140 cm	3 m
263 lx		187 cm	4 m
168 lx		234 cm	5 m
Lux	Coverage		Height

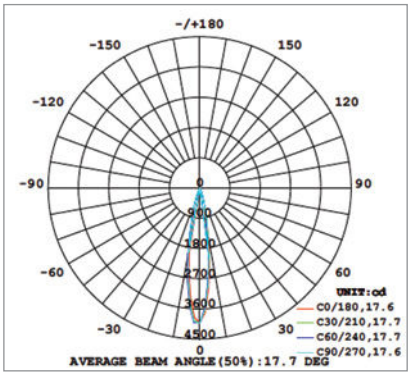
36° BEAM ANGLE



36°			
3000 k			
2676 lx		62 cm	1 m
669 lx		124 cm	2 m
297 lx		187 cm	3 m
167 lx		249 cm	4 m
107 lx		311 cm	5 m
Lux	Coverage		Height

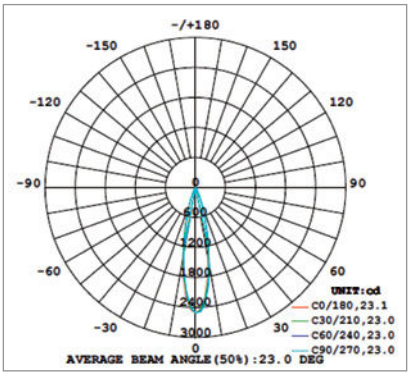
Surface mounted (fixed), square, 7W - Edinburgh 7W SQ SM

18° BEAM ANGLE



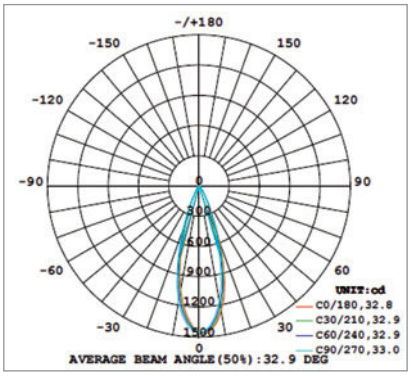
18°			
3000 k			
4042 lx		31 cm	1 m
1011 lx		62 cm	2 m
449 lx		93 cm	3 m
253 lx		124 cm	4 m
162 lx		155 cm	5 m
Lux	Coverage		Height

24° BEAM ANGLE



24°			
3000 k			
2520 lx		41 cm	1 m
630 lx		81 cm	2 m
280 lx		122 cm	3 m
158 lx		162 cm	4 m
111 lx		203 cm	5 m
Lux	Coverage		Height

36° BEAM ANGLE



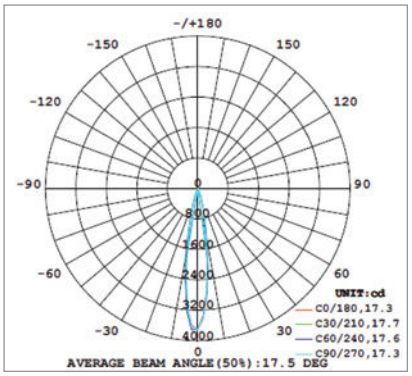
36°			
3000 k			
1462 lx		59 cm	1 m
366 lx		118 cm	2 m
162 lx		177 cm	3 m
91 lx		236 cm	4 m
58 lx		295 cm	5 m
Lux	Coverage		Height

Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE EDINBURGH SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

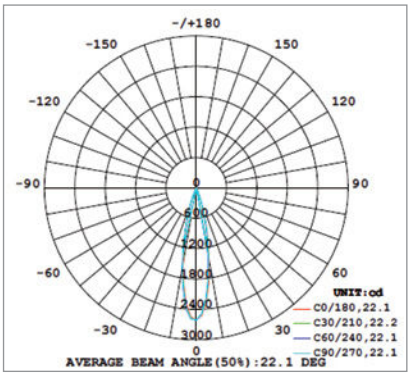
Suspended, square, 7W - Edinburgh 7W SQ SS

18° BEAM ANGLE



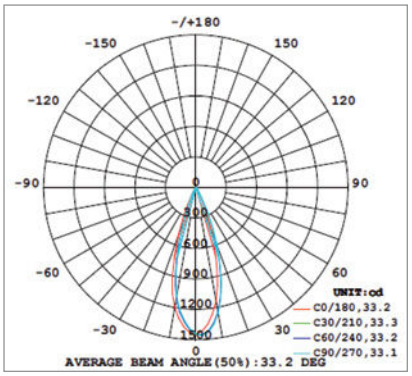
18°		
3000 k		
3719 lx	31 cm	1 m
930 lx	61 cm	2 m
413 lx	92 cm	3 m
232 lx	123 cm	4 m
149 lx	153 cm	5 m
Lux	Coverage	Height

24° BEAM ANGLE



24°		
3000 k		
2621 lx	39 cm	1 m
655 lx	79 cm	2 m
291 lx	118 cm	3 m
164 lx	157 cm	4 m
105 lx	196 cm	5 m
Lux	Coverage	Height

36° BEAM ANGLE

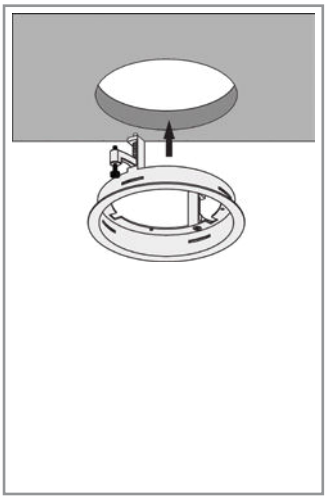


36°		
3000 k		
1459 lx	59 cm	1 m
365 lx	119 cm	2 m
162 lx	178 cm	3 m
91 lx	238 cm	4 m
58 lx	297 cm	5 m
Lux	Coverage	Height

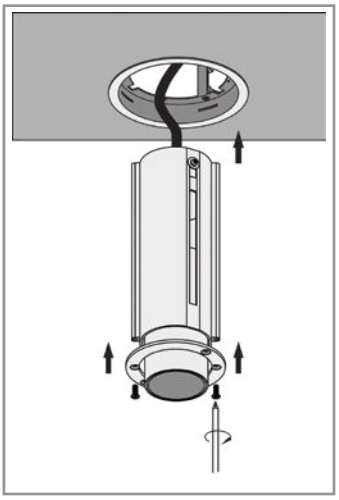
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE EDINBURGH SERIES: INSTALLATION DETAILS

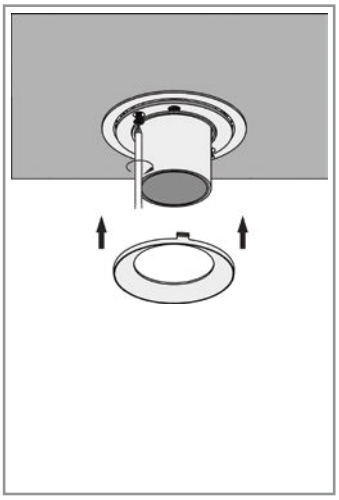
RECESS MOUNTED SWIVEL DOWNLIGHT AND SPOTLIGHT WITH TRIM MOUNTING



1. Install the mounting bracket on to the false ceiling.



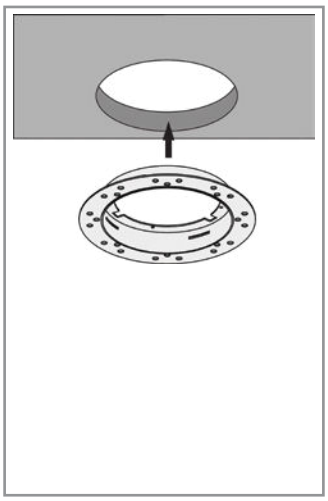
2. Once the interior work is done, connect the light engine to the driver and insert it into the mounting bracket and fix it using screws.



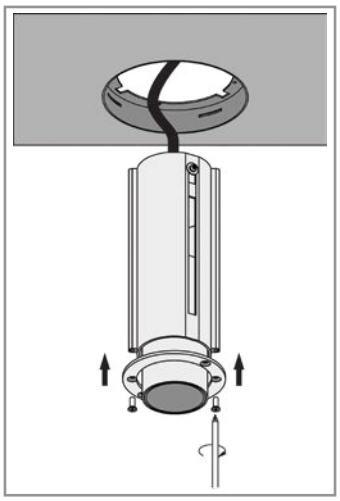
3. Finally press fit the baffle on to the light engine. Your luminaire is ready to use.

THE EDINBURGH SERIES: INSTALLATION DETAILS

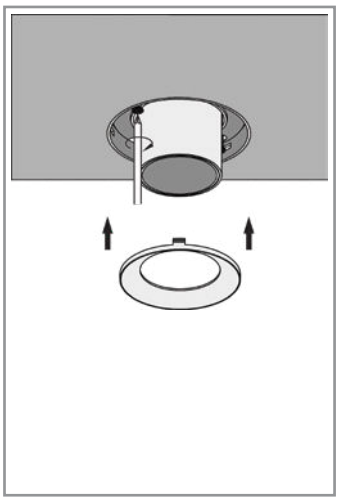
RECESS MOUNTED SWIVEL DOWNLIGHT AND SPOTLIGHT WITH TRIMLESS MOUNTING



1. Fix the mounting bracket on to the false ceiling with the help of screws and cover the edges of the bracket using PoP so that it is not visible on the ceiling.

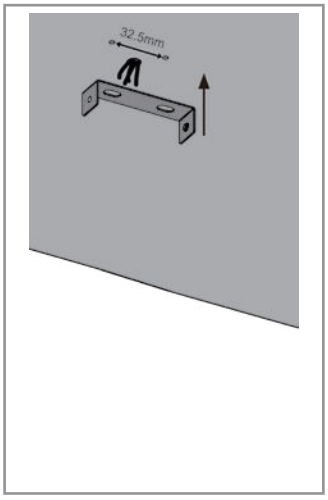


2. Once the interior work is done, connect the light engine to the driver and insert it into the mounting bracket and fix it using screws.

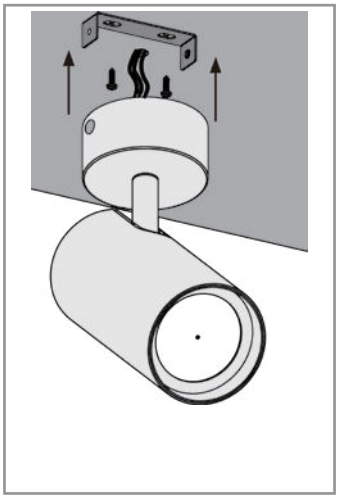


3. Finally press fit the baffle on to the light engine. Your luminaire is ready to use.

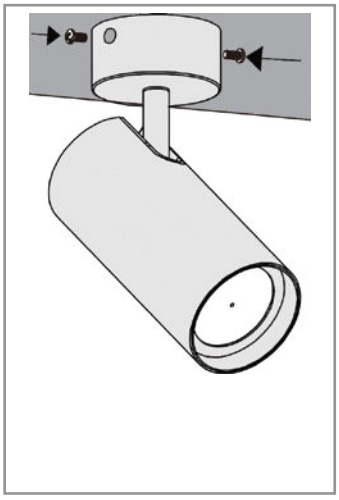
SURFACE MOUNTED SWIVEL DOWNLIGHT AND SPOTLIGHT



1. Install the mounting bracket on to the false ceiling.



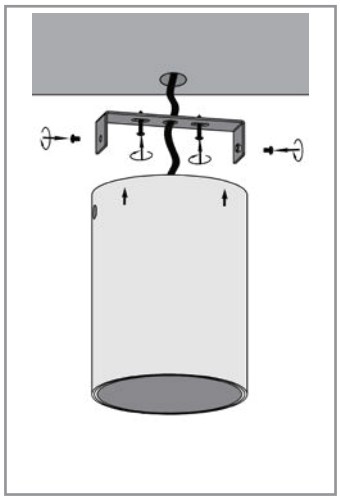
2. Connect the housing to the AC mains power supply.



3. Finally insert the luminaire on to the mounting bracket and fix it using screws. Your luminaire is ready to use.

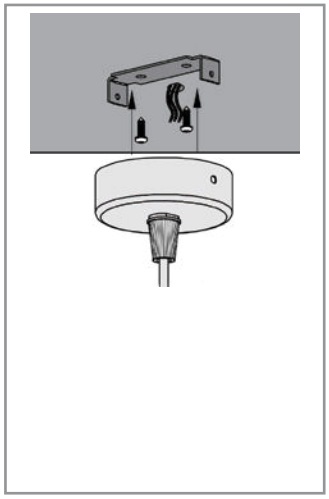
THE EDINBURGH SERIES: INSTALLATION DETAILS

SURFACE MOUNTED (FIXED) DOWNLIGHT AND SPOTLIGHT

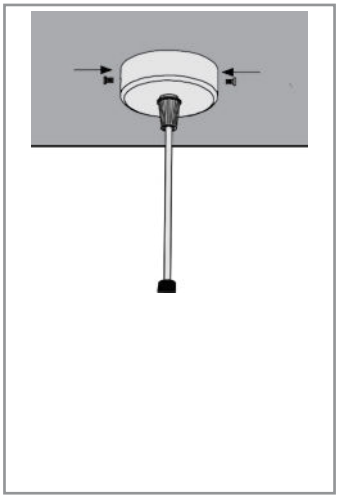


1. Fix the mounting bracket on to the false ceiling with the help of screws. Connect the luminaire to the AC mains power supply and slide the luminaire on to the mounting bracket and fix it with the help of screws. Your luminaire is now ready to use.

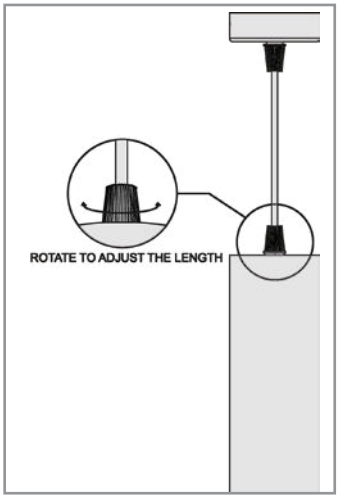
SUSPENDED DOWNLIGHT AND SPOTLIGHT - SQUARE



1. Fix the mounting bracket on to the false ceiling with the help of screws.



2. Connect the housing to the AC mains power supply and slide it on to the mounting bracket and fix it using screws.

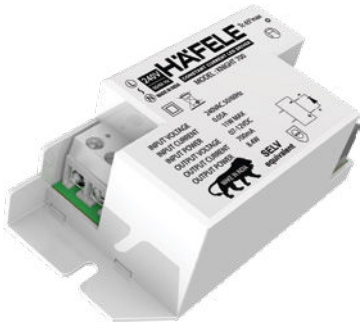


3. Adjust the length of the cable by rotating the screw on the luminaire. Your luminaire is now installed and ready to use.

THE EDINBURGH SERIES: CONSTANT CURRENT DRIVERS

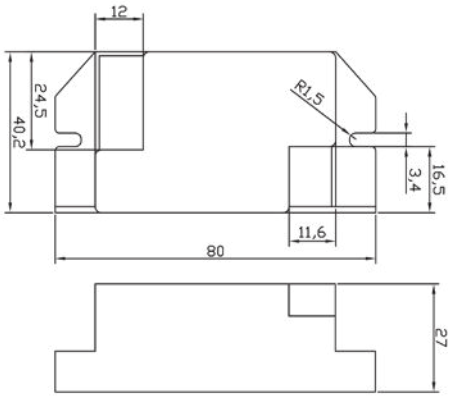
KNIGHT 700 - CONSTANT SINGLE CURRENT LED DRIVER, 700mA

IP20



- SELV Equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

Technical Specifications	
Article No.	833.30.969
Input Voltage	240VAC ±10% 50 Hz
Input Current	0.06A Max.
Input Power	11W Max.
Output Current	700mA
Output Voltage	7 - 12VDC
Output Power	8.4W
Power Factor	>0.85
Ambient operating temperature range	-10ºC to +50ºC
Input Surge Protection	Yes (Line-Neutral 3kV DM)



Note: This driver is compatible with recess mounted swivel luminaires.

THE EDUNBURGH SERIES: CONSTANT CURRENT DRIVERS

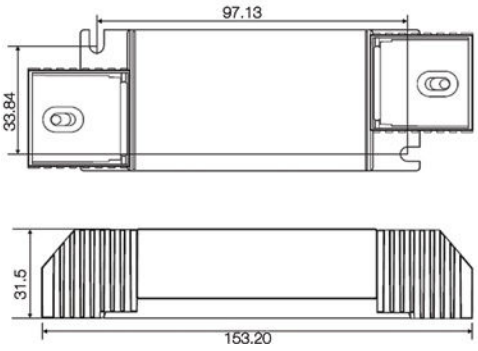
DUKE 700 - CONSTANT MULTI-CURRENT LED DRIVER, 400mA, 500mA, 600mA, 700mA

IP20

- SELV equivalent
- CE certified
- Suitable for Class II fixtures
- Flicker-free output
- Multiple current selection through DIP switch
- Overload and short circuit protection
- Input over-voltage and under-voltage protection
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hours & 440VAC for 8 hours
- 1 channel output



Technical Specifications	
Article No.	833.30.976
Input Voltage	240VAC ±20% 50Hz
Input Current	0.16A Max.
Input Power	36W Max.
Output Current	400mA, 500mA, 600mA, 700mA (±7%)
Output Voltage	33 - 43VDC
Output Power	30.1W
Power Factor	>0.95
Ambient Operating Temperature Range	-20°C to +50°C
Input Surge Protection	Yes (Line-Neutral 4kV)



DUKE 700 DIP SWITCH CURRENT SELECTION CHART

DIP Switch		Output Current (mA)
PIN 1	PIN 2	
ON	ON	700
ON	OFF	600
OFF	ON	500
OFF	OFF	400



NOTE:

1. You can order the Knight Series or the Duke Series drivers, as per your requirement, by checking the suitable current ratings.
2. For Duke drivers: Please set the dip switch setting as indicated on the driver to activate the desired current rating out of the 4 options available
3. The Edinburgh series downlights allow automation by connecting to Dali compatible drivers.

THE EDINBURGH SERIES: ORDERING INFORMATION

1. RECESS MOUNTED LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.624	7W	700mA	2700K	18°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.625	7W	700mA	3000K	18°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.626	7W	700mA	4000K	18°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.628	7W	700mA	2700K	24°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.629	7W	700mA	3000K	24°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.630	7W	700mA	4000K	24°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.632	7W	700mA	2700K	36°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.633	7W	700mA	3000K	36°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.634	7W	700mA	4000K	36°	Recess Mounted Swivel Trim	White	White	Round	Dia 78 x H 151
833.30.636	7W	700mA	2700K	18°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.637	7W	700mA	3000K	18°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.638	7W	700mA	4000K	18°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.640	7W	700mA	2700K	24°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.641	7W	700mA	3000K	24°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.642	7W	700mA	4000K	24°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.644	7W	700mA	2700K	36°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.645	7W	700mA	3000K	36°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.646	7W	700mA	4000K	36°	Recess Mounted Swivel Trim	Black	Black	Round	Dia 78 x H 151
833.30.114	7W	700mA	2700K	18°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.115	7W	700mA	3000K	18°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.116	7W	700mA	4000K	18°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.117	7W	700mA	2700K	24°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.118	7W	700mA	3000K	24°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.119	7W	700mA	4000K	24°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.120	7W	700mA	2700K	36°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.121	7W	700mA	3000K	36°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.122	7W	700mA	4000K	36°	Recess Mounted Swivel Trim	White	Bronze	Round	Dia 78 x H 151
833.30.123	7W	700mA	2700K	18°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.124	7W	700mA	3000K	18°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.125	7W	700mA	4000K	18°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.126	7W	700mA	2700K	24°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.127	7W	700mA	3000K	24°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.128	7W	700mA	4000K	24°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.129	7W	700mA	2700K	36°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.130	7W	700mA	3000K	36°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.131	7W	700mA	4000K	36°	Recess Mounted Swivel Trim	Black	Bronze	Round	Dia 78 x H 151
833.30.648	7W	700mA	2700K	18°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.649	7W	700mA	3000K	18°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.650	7W	700mA	4000K	18°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.652	7W	700mA	2700K	24°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.653	7W	700mA	3000K	24°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.654	7W	700mA	4000K	24°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.656	7W	700mA	2700K	36°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.657	7W	700mA	3000K	36°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151
833.30.658	7W	700mA	4000K	36°	Recess Mounted Swivel Trimless	White	White	Round	Dia 109 x H 151

THE EDINBURGH SERIES: ORDERING INFORMATION

1. RECESS MOUNTED LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.660	7W	700mA	2700K	18°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.661	7W	700mA	3000K	18°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.662	7W	700mA	4000K	18°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.664	7W	700mA	2700K	24°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.665	7W	700mA	3000K	24°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.666	7W	700mA	4000K	24°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.668	7W	700mA	2700K	36°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.669	7W	700mA	3000K	36°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.670	7W	700mA	4000K	36°	Recess Mounted Swivel Trimless	Black	Black	Round	Dia 109 x H 151
833.30.132	7W	700mA	2700K	18°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.133	7W	700mA	3000K	18°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.134	7W	700mA	4000K	18°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.135	7W	700mA	2700K	24°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.136	7W	700mA	3000K	24°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.137	7W	700mA	4000K	24°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.138	7W	700mA	2700K	36°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.139	7W	700mA	3000K	36°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.140	7W	700mA	4000K	36°	Recess Mounted Swivel Trimless	White	Bronze	Round	Dia 109 x H 151
833.30.141	7W	700mA	2700K	18°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.142	7W	700mA	3000K	18°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.143	7W	700mA	4000K	18°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.144	7W	700mA	2700K	24°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.145	7W	700mA	3000K	24°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.146	7W	700mA	4000K	24°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.147	7W	700mA	2700K	36°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.148	7W	700mA	3000K	36°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151
833.30.149	7W	700mA	4000K	36°	Recess Mounted Swivel Trimless	Black	Bronze	Round	Dia 109 x H 151

2. SURFACE MOUNTED (FIXED) LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.576	7W	350mA	2700K	18°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.577	7W	350mA	3000K	18°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.578	7W	350mA	4000K	18°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.580	7W	350mA	2700K	24°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.581	7W	350mA	3000K	24°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.582	7W	350mA	4000K	24°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.584	7W	350mA	2700K	36°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.585	7W	350mA	3000K	36°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.586	7W	350mA	4000K	36°	Surface Mounted	White	White	Round	Dia 40 x H 250
833.30.588	7W	350mA	2700K	18°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.589	7W	350mA	3000K	18°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.590	7W	350mA	4000K	18°	Surface Mounted	Black	Black	Round	Dia 40 x H 250

THE EDINBURGH SERIES: ORDERING INFORMATION

2. SURFACE MOUNTED (FIXED) LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.592	7W	350mA	2700K	24°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.593	7W	350mA	3000K	24°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.594	7W	350mA	4000K	24°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.596	7W	350mA	2700K	36°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.597	7W	350mA	3000K	36°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.598	7W	350mA	4000K	36°	Surface Mounted	Black	Black	Round	Dia 40 x H 250
833.30.078	7W	350mA	2700K	18°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.079	7W	350mA	3000K	18°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.080	7W	350mA	4000K	18°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.081	7W	350mA	2700K	24°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.082	7W	350mA	3000K	24°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.083	7W	350mA	4000K	24°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.084	7W	350mA	2700K	36°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.085	7W	350mA	3000K	36°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.086	7W	350mA	4000K	36°	Surface Mounted	White	Bronze	Round	Dia 40 x H 250
833.30.087	7W	350mA	2700K	18°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.088	7W	350mA	3000K	18°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.089	7W	350mA	4000K	18°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.090	7W	350mA	2700K	24°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.091	7W	350mA	3000K	24°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.092	7W	350mA	4000K	24°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.093	7W	350mA	2700K	36°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.094	7W	350mA	3000K	36°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.095	7W	350mA	4000K	36°	Surface Mounted	Black	Bronze	Round	Dia 40 x H 250
833.30.744	15W	350mA	2700K	18°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.745	15W	350mA	3000K	18°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.746	15W	350mA	4000K	18°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.748	15W	350mA	2700K	24°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.749	15W	350mA	3000K	24°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.750	15W	350mA	4000K	24°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.752	15W	350mA	2700K	36°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.753	15W	350mA	3000K	36°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.754	15W	350mA	4000K	36°	Surface Mounted	White	White	Round	Dia 64 x H 136
833.30.756	15W	350mA	2700K	18°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.757	15W	350mA	3000K	18°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.758	15W	350mA	4000K	18°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.760	15W	350mA	2700K	24°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.761	15W	350mA	3000K	24°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.762	15W	350mA	4000K	24°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.764	15W	350mA	2700K	36°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.765	15W	350mA	3000K	36°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.766	15W	350mA	4000K	36°	Surface Mounted	Black	Black	Round	Dia 64 x H 136
833.30.204	15W	350mA	2700K	18°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.205	15W	350mA	3000K	18°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.206	15W	350mA	4000K	18°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136

THE EDINBURGH SERIES: ORDERING INFORMATION

2. SURFACE MOUNTED (FIXED) LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.207	15W	350mA	2700K	24°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.208	15W	350mA	3000K	24°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.209	15W	350mA	4000K	24°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.210	15W	350mA	2700K	36°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.211	15W	350mA	3000K	36°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.212	15W	350mA	4000K	36°	Surface Mounted	White	Bronze	Round	Dia 64 x H 136
833.30.213	15W	350mA	2700K	18°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.214	15W	350mA	3000K	18°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.215	15W	350mA	4000K	18°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.216	15W	350mA	2700K	24°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.217	15W	350mA	3000K	24°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.218	15W	350mA	4000K	24°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.219	15W	350mA	2700K	36°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.220	15W	350mA	3000K	36°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.221	15W	350mA	4000K	36°	Surface Mounted	Black	Bronze	Round	Dia 64 x H 136
833.30.696	7W	350mA	2700K	18°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.697	7W	350mA	3000K	18°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.698	7W	350mA	4000K	18°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.700	7W	350mA	2700K	24°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.701	7W	350mA	3000K	24°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.702	7W	350mA	4000K	24°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.704	7W	350mA	2700K	36°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.705	7W	350mA	3000K	36°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.706	7W	350mA	4000K	36°	Surface Mounted	White	White	Square	40 x 40 x 250
833.30.708	7W	350mA	2700K	18°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.709	7W	350mA	3000K	18°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.710	7W	350mA	4000K	18°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.712	7W	350mA	2700K	24°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.713	7W	350mA	3000K	24°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.714	7W	350mA	4000K	24°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.716	7W	350mA	2700K	36°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.717	7W	350mA	3000K	36°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.718	7W	350mA	4000K	36°	Surface Mounted	Black	Black	Square	40 x 40 x 250
833.30.168	7W	350mA	2700K	18°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.169	7W	350mA	3000K	18°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.170	7W	350mA	4000K	18°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.171	7W	350mA	2700K	24°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.172	7W	350mA	3000K	24°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.173	7W	350mA	4000K	24°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.174	7W	350mA	2700K	36°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.175	7W	350mA	3000K	36°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.176	7W	350mA	4000K	36°	Surface Mounted	White	Bronze	Square	40 x 40 x 250
833.30.177	7W	350mA	2700K	18°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.178	7W	350mA	3000K	18°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.179	7W	350mA	4000K	18°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250

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2. SURFACE MOUNTED (FIXED) LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.180	7W	350mA	2700K	24°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.181	7W	350mA	3000K	24°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.182	7W	350mA	4000K	24°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.183	7W	350mA	2700K	36°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.184	7W	350mA	3000K	36°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250
833.30.185	7W	350mA	4000K	36°	Surface Mounted	Black	Bronze	Square	40 x 40 x 250

3. SURFACE MOUNTED SWIVEL LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.600	7W	350mA	2700K	18°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.601	7W	350mA	3000K	18°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.602	7W	350mA	4000K	18°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.604	7W	350mA	2700K	24°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.605	7W	350mA	3000K	24°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.606	7W	350mA	4000K	24°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.608	7W	350mA	2700K	36°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.609	7W	350mA	3000K	36°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.610	7W	350mA	4000K	36°	Surface Mounted Swivel	White	White	Round	Dia 40 x H 207
833.30.612	7W	350mA	2700K	18°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.613	7W	350mA	3000K	18°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.614	7W	350mA	4000K	18°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.616	7W	350mA	2700K	24°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.617	7W	350mA	3000K	24°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.618	7W	350mA	4000K	24°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.620	7W	350mA	2700K	36°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.621	7W	350mA	3000K	36°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.622	7W	350mA	4000K	36°	Surface Mounted Swivel	Black	Black	Round	Dia 40 x H 207
833.30.096	7W	350mA	2700K	18°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.097	7W	350mA	3000K	18°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.098	7W	350mA	4000K	18°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.099	7W	350mA	2700K	24°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.100	7W	350mA	3000K	24°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.101	7W	350mA	4000K	24°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.102	7W	350mA	2700K	36°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.103	7W	350mA	3000K	36°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.104	7W	350mA	4000K	36°	Surface Mounted Swivel	White	Bronze	Round	Dia 40 x H 207
833.30.105	7W	350mA	2700K	18°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.106	7W	350mA	3000K	18°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.107	7W	350mA	4000K	18°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.108	7W	350mA	2700K	24°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.109	7W	350mA	3000K	24°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207

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3. SURFACE MOUNTED SWIVEL LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.110	7W	350mA	4000K	24°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.111	7W	350mA	2700K	36°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.112	7W	350mA	3000K	36°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.113	7W	350mA	4000K	36°	Surface Mounted Swivel	Black	Bronze	Round	Dia 40 x H 207
833.30.768	15W	350mA	2700K	18°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.769	15W	350mA	3000K	18°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.770	15W	350mA	4000K	18°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.772	15W	350mA	2700K	24°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.773	15W	350mA	3000K	24°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.774	15W	350mA	4000K	24°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.776	15W	350mA	2700K	36°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.777	15W	350mA	3000K	36°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.778	15W	350mA	4000K	36°	Surface Mounted Swivel	White	White	Round	Dia 64 x H 193
833.30.780	15W	350mA	2700K	18°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.781	15W	350mA	3000K	18°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.782	15W	350mA	4000K	18°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.784	15W	350mA	2700K	24°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.785	15W	350mA	3000K	24°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.786	15W	350mA	4000K	24°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.788	15W	350mA	2700K	36°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.789	15W	350mA	3000K	36°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.790	15W	350mA	4000K	36°	Surface Mounted Swivel	Black	Black	Round	Dia 64 x H 193
833.30.222	15W	350mA	2700K	18°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.223	15W	350mA	3000K	18°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.224	15W	350mA	4000K	18°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.225	15W	350mA	2700K	24°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.226	15W	350mA	3000K	24°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.227	15W	350mA	4000K	24°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.228	15W	350mA	2700K	36°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.229	15W	350mA	3000K	36°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.230	15W	350mA	4000K	36°	Surface Mounted Swivel	White	Bronze	Round	Dia 64 x H 193
833.30.231	15W	350mA	2700K	18°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.232	15W	350mA	3000K	18°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.233	15W	350mA	4000K	18°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.234	15W	350mA	2700K	24°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.235	15W	350mA	3000K	24°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.236	15W	350mA	4000K	24°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.237	15W	350mA	2700K	36°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.238	15W	350mA	3000K	36°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193
833.30.239	15W	350mA	4000K	36°	Surface Mounted Swivel	Black	Bronze	Round	Dia 64 x H 193

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4. SUSPENDED LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.672	7W	350mA	2700K	18°	Suspended	White	White	Round	Dia 40 x H 250
833.30.673	7W	350mA	3000K	18°	Suspended	White	White	Round	Dia 40 x H 250
833.30.674	7W	350mA	4000K	18°	Suspended	White	White	Round	Dia 40 x H 250
833.30.676	7W	350mA	2700K	24°	Suspended	White	White	Round	Dia 40 x H 250
833.30.677	7W	350mA	3000K	24°	Suspended	White	White	Round	Dia 40 x H 250
833.30.678	7W	350mA	4000K	24°	Suspended	White	White	Round	Dia 40 x H 250
833.30.680	7W	350mA	2700K	36°	Suspended	White	White	Round	Dia 40 x H 250
833.30.681	7W	350mA	3000K	36°	Suspended	White	White	Round	Dia 40 x H 250
833.30.682	7W	350mA	4000K	36°	Suspended	White	White	Round	Dia 40 x H 250
833.30.684	7W	350mA	2700K	18°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.685	7W	350mA	3000K	18°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.686	7W	350mA	4000K	18°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.688	7W	350mA	2700K	24°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.689	7W	350mA	3000K	24°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.690	7W	350mA	4000K	24°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.692	7W	350mA	2700K	36°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.693	7W	350mA	3000K	36°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.694	7W	350mA	4000K	36°	Suspended	Black	Black	Round	Dia 40 x H 250
833.30.150	7W	350mA	2700K	18°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.151	7W	350mA	3000K	18°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.152	7W	350mA	4000K	18°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.153	7W	350mA	2700K	24°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.154	7W	350mA	3000K	24°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.155	7W	350mA	4000K	24°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.156	7W	350mA	2700K	36°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.157	7W	350mA	3000K	36°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.158	7W	350mA	4000K	36°	Suspended	White	Bronze	Round	Dia 40 x H 250
833.30.159	7W	350mA	2700K	18°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.160	7W	350mA	3000K	18°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.161	7W	350mA	4000K	18°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.162	7W	350mA	2700K	24°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.163	7W	350mA	3000K	24°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.164	7W	350mA	4000K	24°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.165	7W	350mA	2700K	36°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.166	7W	350mA	3000K	36°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.167	7W	350mA	4000K	36°	Suspended	Black	Bronze	Round	Dia 40 x H 250
833.30.792	13W	300mA	2700K	18°	Suspended	White	White	Round	Dia 64 x H 300
833.30.793	13W	300mA	3000K	18°	Suspended	White	White	Round	Dia 64 x H 300
833.30.794	13W	300mA	4000K	18°	Suspended	White	White	Round	Dia 64 x H 300
833.30.796	13W	300mA	2700K	24°	Suspended	White	White	Round	Dia 64 x H 300
833.30.797	13W	300mA	3000K	24°	Suspended	White	White	Round	Dia 64 x H 300
833.30.798	13W	300mA	4000K	24°	Suspended	White	White	Round	Dia 64 x H 300
833.30.800	13W	300mA	2700K	36°	Suspended	White	White	Round	Dia 64 x H 300
833.30.801	13W	300mA	3000K	36°	Suspended	White	White	Round	Dia 64 x H 300
833.30.802	13W	300mA	4000K	36°	Suspended	White	White	Round	Dia 64 x H 300

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4. SUSPENDED LUMINAIRES

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.804	13W	300mA	2700K	18°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.805	13W	300mA	3000K	18°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.806	13W	300mA	4000K	18°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.808	13W	300mA	2700K	24°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.809	13W	300mA	3000K	24°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.810	13W	300mA	4000K	24°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.812	13W	300mA	2700K	36°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.813	13W	300mA	3000K	36°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.814	13W	300mA	4000K	36°	Suspended	Black	Black	Round	Dia 64 x H 300
833.30.240	13W	300mA	2700K	18°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.241	13W	300mA	3000K	18°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.242	13W	300mA	4000K	18°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.243	13W	300mA	2700K	24°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.244	13W	300mA	3000K	24°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.245	13W	300mA	4000K	24°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.246	13W	300mA	2700K	36°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.247	13W	300mA	3000K	36°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.248	13W	300mA	4000K	36°	Suspended	White	Bronze	Round	Dia 64 x H 300
833.30.249	13W	300mA	2700K	18°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.250	13W	300mA	3000K	18°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.251	13W	300mA	4000K	18°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.252	13W	300mA	2700K	24°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.253	13W	300mA	3000K	24°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.254	13W	300mA	4000K	24°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.255	13W	300mA	2700K	36°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.256	13W	300mA	3000K	36°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.257	13W	300mA	4000K	36°	Suspended	Black	Bronze	Round	Dia 64 x H 300
833.30.720	7W	350mA	2700K	18°	Suspended	White	White	Square	40 x 40 x 250
833.30.721	7W	350mA	3000K	18°	Suspended	White	White	Square	40 x 40 x 250
833.30.722	7W	350mA	4000K	18°	Suspended	White	White	Square	40 x 40 x 250
833.30.724	7W	350mA	2700K	24°	Suspended	White	White	Square	40 x 40 x 250
833.30.725	7W	350mA	3000K	24°	Suspended	White	White	Square	40 x 40 x 250
833.30.726	7W	350mA	4000K	24°	Suspended	White	White	Square	40 x 40 x 250
833.30.728	7W	350mA	2700K	36°	Suspended	White	White	Square	40 x 40 x 250
833.30.729	7W	350mA	3000K	36°	Suspended	White	White	Square	40 x 40 x 250
833.30.730	7W	350mA	4000K	36°	Suspended	White	White	Square	40 x 40 x 250
833.30.732	7W	350mA	2700K	18°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.733	7W	350mA	3000K	18°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.734	7W	350mA	4000K	18°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.736	7W	350mA	2700K	24°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.737	7W	350mA	3000K	24°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.738	7W	350mA	4000K	24°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.740	7W	350mA	2700K	36°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.741	7W	350mA	3000K	36°	Suspended	Black	Black	Square	40 x 40 x 250
833.30.742	7W	350mA	4000K	36°	Suspended	Black	Black	Square	40 x 40 x 250

THE EDINBURGH SERIES: ORDERING INFORMATION

4. SUSPENDED LUMINAIRE

Article No.	Wattage	Current	Colour Temperature	Beam Angle	Mounting Technique	Body Colour	Baffle Colour	Shape	Dimensions (mm)
833.30.186	7W	350mA	2700K	18°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.187	7W	350mA	3000K	18°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.188	7W	350mA	4000K	18°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.189	7W	350mA	2700K	24°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.190	7W	350mA	3000K	24°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.191	7W	350mA	4000K	24°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.192	7W	350mA	2700K	36°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.193	7W	350mA	3000K	36°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.194	7W	350mA	4000K	36°	Suspended	White	Bronze	Square	40 x 40 x 250
833.30.195	7W	350mA	2700K	18°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.196	7W	350mA	3000K	18°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.197	7W	350mA	4000K	18°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.198	7W	350mA	2700K	24°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.199	7W	350mA	3000K	24°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.200	7W	350mA	4000K	24°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.201	7W	350mA	2700K	36°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.202	7W	350mA	3000K	36°	Suspended	Black	Bronze	Square	40 x 40 x 250
833.30.203	7W	350mA	4000K	36°	Suspended	Black	Bronze	Square	40 x 40 x 250

5. DRIVERS

Article No.	Description	Current
833.30.969	Knight 700 - Constant Single Current LED Driver, 700mA	700mA
833.30.976	Duke 700 - Constant Multi-Current LED Driver, 400mA, 500mA, 600mA, 700mA	700mA Max.

6. GLARE REDUCTION ADD-ONS

Article No.	Description
833.13.572	Edinburgh Woven Glass - 15W RD SM SWL
833.13.568	Edinburgh Honeycomb Louver - 13W RD SS
833.13.567	Edinburgh Honeycomb Louver - 15W RD SM SWL
833.13.562	Edinburgh Striped Glass - 15W RD SM SWL


HÄFELE™
ARCHITECTURAL LIGHTS

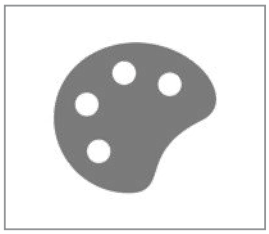


HÄFELE
ARCHITECTURAL LIGHTS

COLUMBIA

Experience true High-Definition interior lighting with Häfele's new Columbia architectural lights series that offers excellent true colour reproduction and sharper details. The compact luminaires from this series deliver a brighter light output, thanks to the premium reflectors that direct maximum light from the LED, efficiently illuminating your interior space. In addition, the wall washer luminaires from this series give a soothing visual experience thanks to the reflector design which directs the light to the wall in a way that the light source is not visible directly. With an extremely low UGR of less than 16 and, single LED and multiple LED linear luminaire options, the Columbia series downlights and wall washers can be used to illuminate smaller and wider areas.

THE COLUMBIA SERIES: FEATURES



1. Excellent colour rendering

With a colour rendering index (CRI) of greater than 97, these luminaires can reproduce better colour contrasts and features with vivid details, that make your interiors look more lively. This results in less strain to the eyes especially when reading.

2. Premium reflectors

The premium reflectors are specially designed to offer increased efficiency and brightness in a compact package. The diamond pattern reflects maximum light, giving excellently illuminated interiors.



3. Diverse range of applications



Recessed Square Downlight with Single Light Output

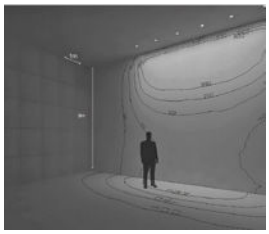


Recessed Square Wall Washer with Single Light Output



Recessed Linear Wall Washer and Downlight with Multiple Light Outputs

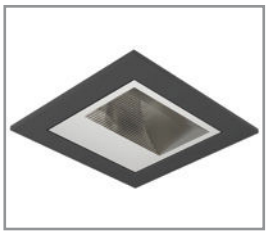
Columbia series luminaires are available in various fixture options like recessed linear downlights and recessed linear wall washers with single light output, that come with single LED offering illumination over smaller areas, and recessed linear downlights and recessed linear wall washers that encompass multiple LEDs arranged along a length offering illumination over wider areas.



4. Perfect wall washing

The wall washer luminaires from this series enable perfect wall washing by creating a smooth light gradient without creating any dark or bright patches. The sharp cut-off angle gives a precise light output that illuminates the wall from the top edge to the bottom, offering a comfortable visual experience. The suggested ratio of luminaire to luminaire to wall is 1:1:3.

THE COLUMBIA SERIES: FEATURES



5. Hidden source of light

The reflector design of the wall washer luminaires effectively directs the light output from the LED above. The LED in the luminaire is thus not directly visible to the naked eye, creating a hidden source of light and giving a harmonious visual experience.

6. Unified Glare Rating (UGR) of <16



The lower the UGR rating, the lower the glare. In order to achieve comfortable illumination in your living spaces, the UGR of the luminaires is recommended to be below 20 which is easily achievable using Columbia series downlights since these have UGR rating of less than 16. UGR values range from 40 (extremely high glare) to 5 (very low glare).



7. Easy maintenance

The Columbia series luminaires are easy to maintain, thanks to the compact external drivers that can be installed near the luminaire, making them easy to locate and service.

THE COLUMBIA SERIES: DECODING THE NOMENCLATURE

Columbia	4W	1.2A	RECT	REC	DL	38°	27K	WH
	1	2	3	4	5	6	7	8

Number	Category	Abbreviation	Possibilities
1	Output	W	4 Watts
			8 Watts
			12 Watts
			18 Watts
2	Current	1.2A	1200 mA
3	Shape	SQ	Square
		RECT	Rectangle
4	Mounting Technique	REC	Recessed
5	Housing Type	DL	Fixed Downlight
		WW	Wall Washer
6	Beam Angle	20°	20 degree
		38°	38 degree
		48°	48 degree
		60°	60 degree
7	Colour Temperature	27K	2700 K
		30K	3000 K
		40K	4000 K
8	Body Colour	BLK	Black
		WH	White

THE COLUMBIA SERIES: RANGE SPECIFICATIONS

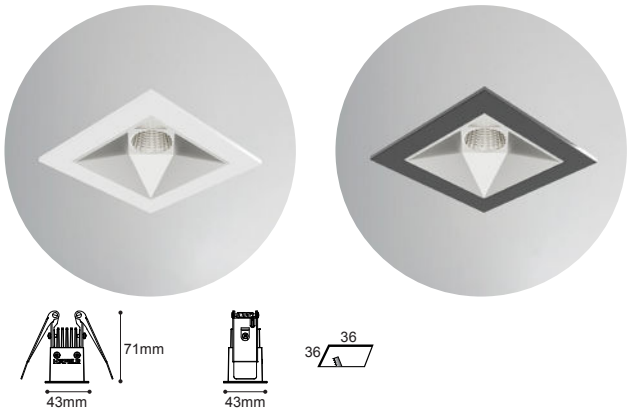
Luminaire type	Downlights and Wall Washers
Colour temperature	2700K, 3000K, 4000K
CRI	>97
Wattage	4W, 8W, 12W, 18W
Current	1200 mA
Lumen output at source (lm/W) for 3000K luminaire	91 lm/W (4W), 84 lm/W (8W), 79 lm/W (12W), 74 lm/W (18W)
Maximum ambient temperature	45° C
Material	Die cast aluminium
Beam angle	20°, 38°, 48°, 60°
Body colour	White, Black
Reflector colour	Silver
Average rated life	> 60,000 hrs.
Degree of protection	IP20
Energy efficiency class	Class II
Certification	BIS (Bureau of Indian Standards)
Applications	Indoors: bed rooms, living rooms, galleries, showcases, conference rooms, restaurants, hotel rooms

HÄFELE ARCHITECTURAL LIGHTS

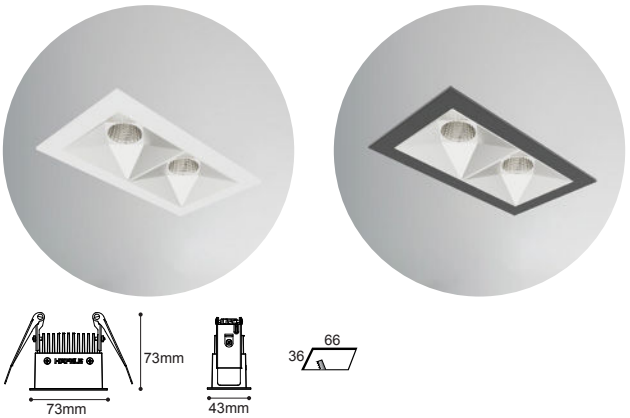
THE COLUMBIA SERIES: RANGE SPECIFICATIONS

FIXED RECESSED DOWNLIGHTS

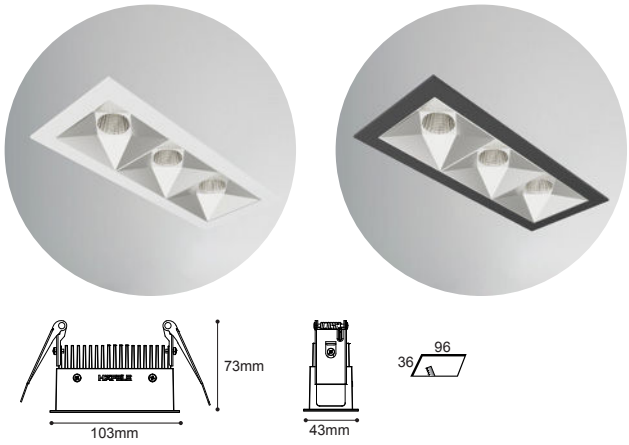
IP20 | UGR <16 | 4W, 8W, 12W, 18W



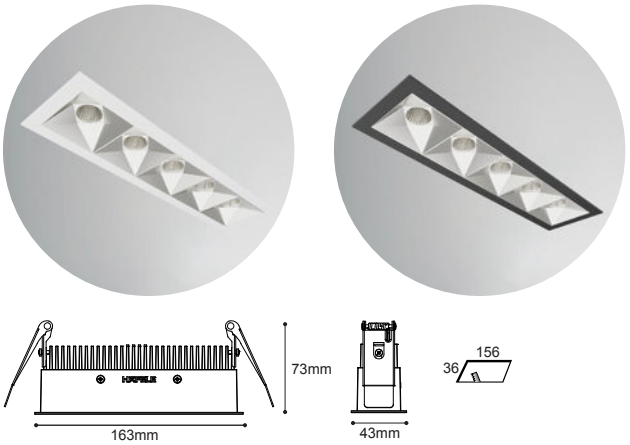
Housing type	Fixed
Description	Columbia 4W 1.2A SQ DL
Wattage	4W
Current	1200mA
Shape	Square
Beam angle	20°, 38°, 48°, 60°
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	91 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 3.6W, 1200mA



Housing type	Fixed
Description	Columbia 8W 1.2A RECT DL
Wattage	8W
Current	1200mA
Shape	Rectangle
Beam angle	20°, 38°, 48°, 60°
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	84 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 7.2W, 1200mA



Housing type	Fixed
Description	Columbia 12W 1.2A RECT DL
Wattage	12W
Current	1200mA
Shape	Rectangle
Beam angle	20°, 38°, 48°, 60°
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	79 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 10.8W, 1200mA

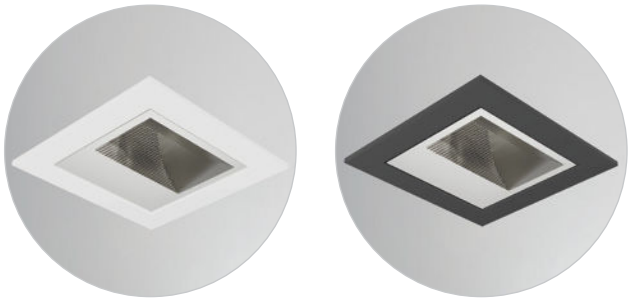


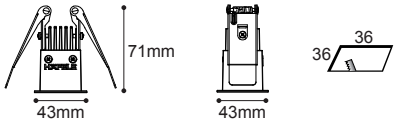
Housing type	Fixed
Description	Columbia 18W 1.2A RECT DL
Wattage	18W
Current	1200mA
Shape	Rectangle
Beam angle	20°, 38°, 48°, 60°
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	74 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 18W, 1200mA

THE COLUMBIA SERIES: RANGE SPECIFICATIONS

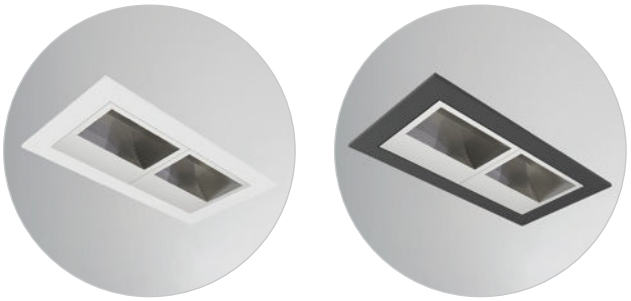
FIXED RECESSED WALL WASHERS

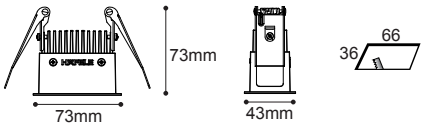
IP20 4W, 8W, 12W, 18W



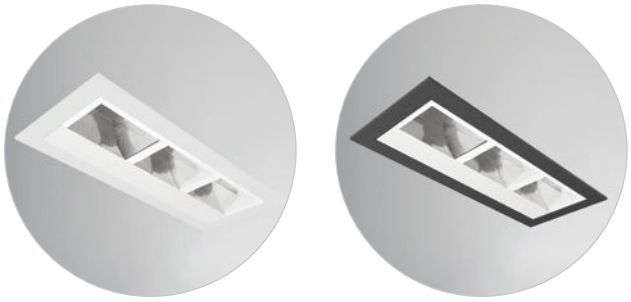


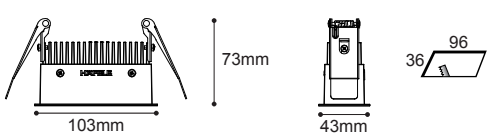
Housing type	Fixed
Description	Columbia 4W 1.2A SQ WW
Wattage	4W
Current	1200mA
Shape	Square
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	91 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 3.6W, 1200mA



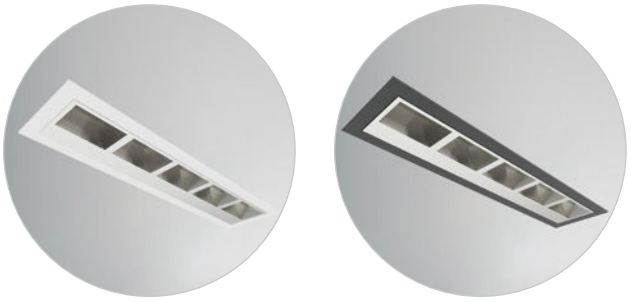


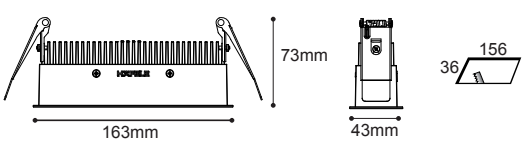
Housing type	Fixed
Description	Columbia 8W 1.2A RECT WW
Wattage	8W
Current	1200mA
Shape	Rectangle
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	84 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 7.2W, 1200mA





Housing type	Fixed
Description	Columbia 12W 1.2A RECT WW
Wattage	12W
Current	1200mA
Shape	Rectangle
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	79 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 10.8W, 1200mA



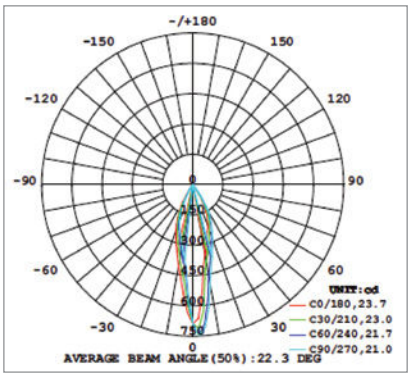


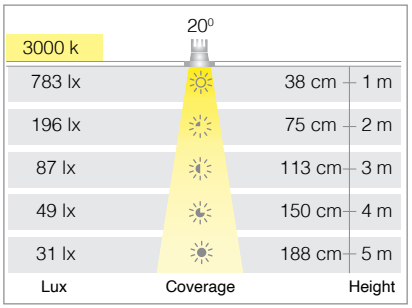
Housing type	Fixed
Description	Columbia 18W 1.2A RECT WW
Wattage	18W
Current	1200mA
Shape	Rectangle
Body colour	White (WH), Black (BLK)
Lumen output at source (lm/W) for 3000K luminaire	74 lm/W
Driver	Knight NEU - Constant Single Current LED Driver, 18W, 1200mA

THE COLUMBIA SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

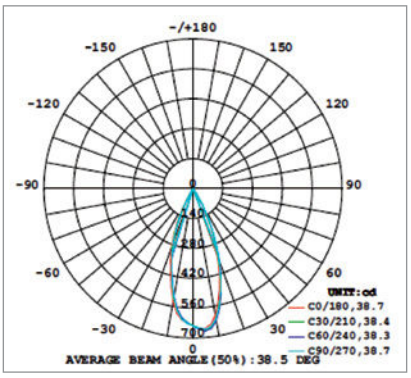
Recessed Downlight, 4W

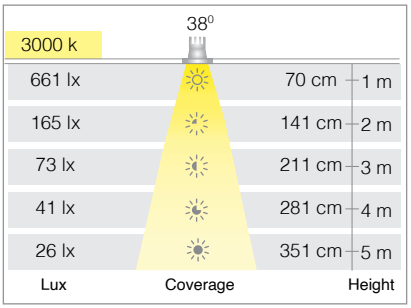
20° BEAM ANGLE



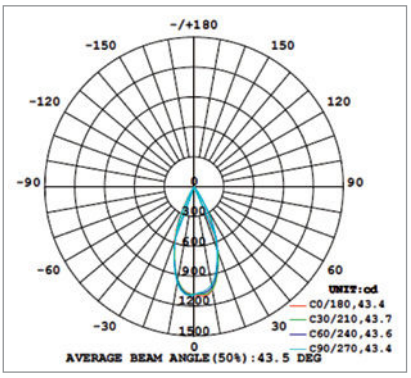


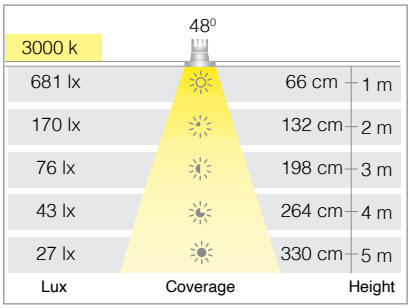
38° BEAM ANGLE



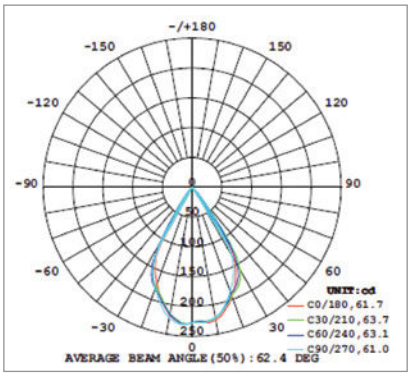


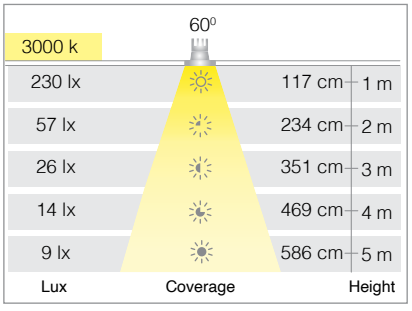
48° BEAM ANGLE





60° BEAM ANGLE



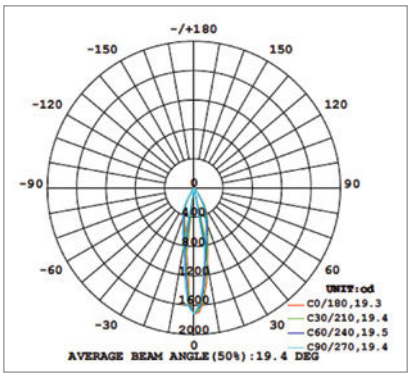


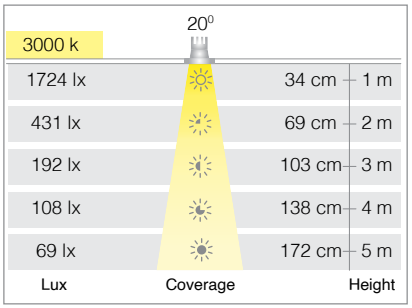
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE COLUMBIA SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

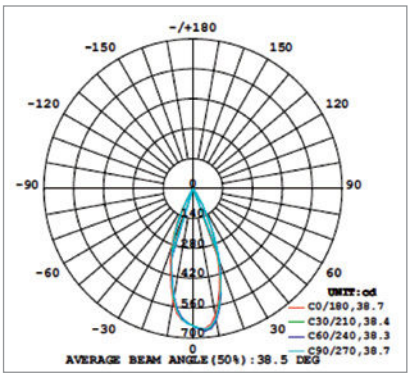
Linear Recessed Downlight, 8W

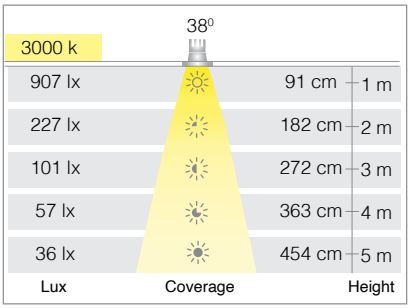
20° BEAM ANGLE



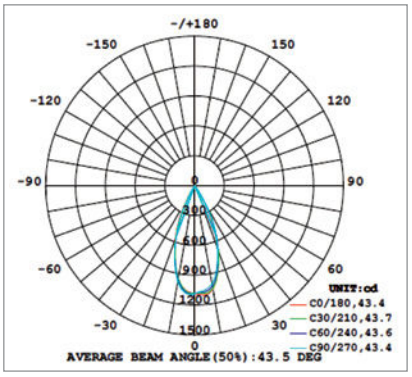


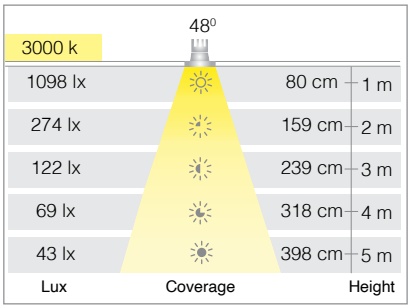
38° BEAM ANGLE



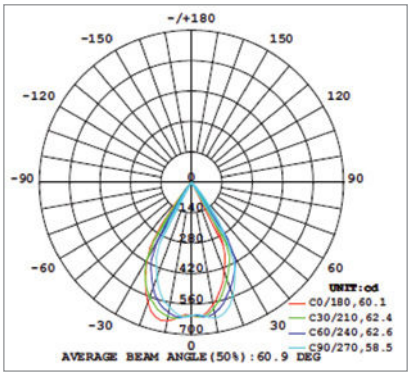


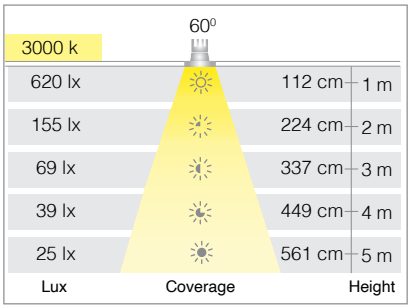
48° BEAM ANGLE





60° BEAM ANGLE



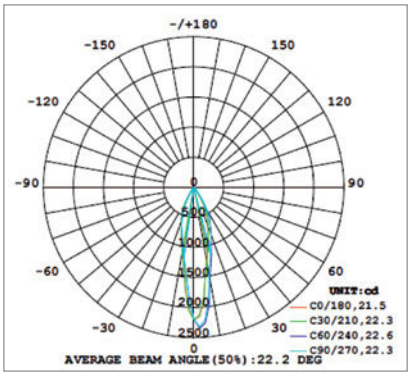


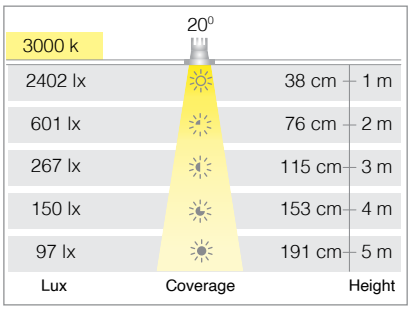
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE COLUMBIA SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

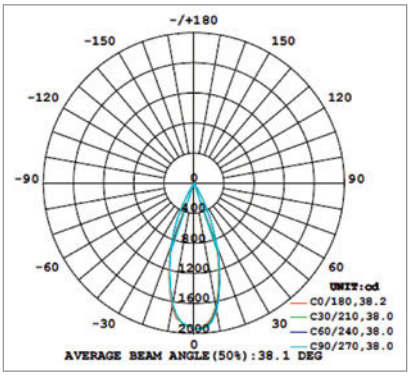
Linear Recessed Downlight, 12W

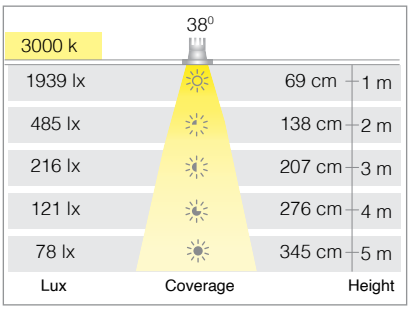
20° BEAM ANGLE



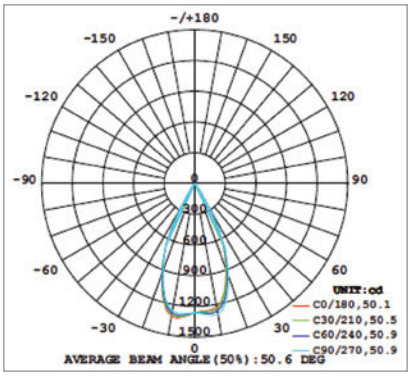


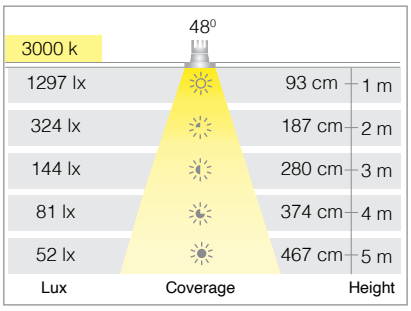
38° BEAM ANGLE



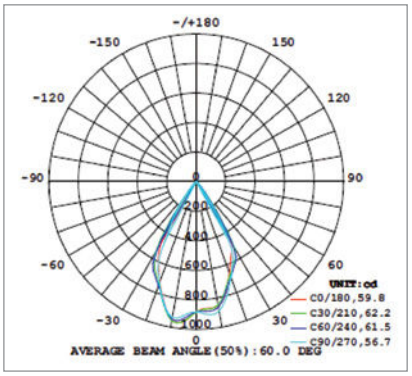


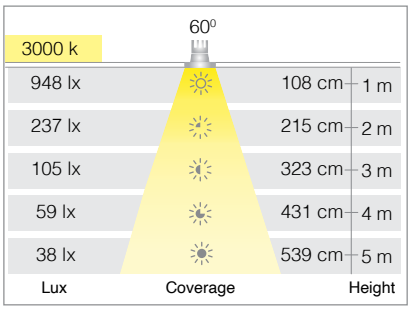
48° BEAM ANGLE





60° BEAM ANGLE



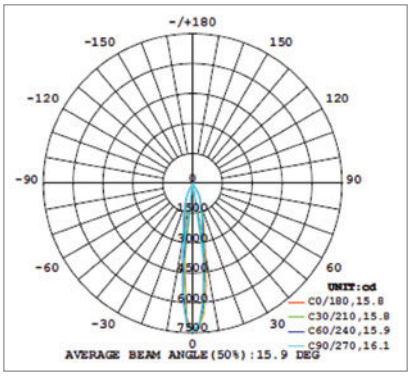


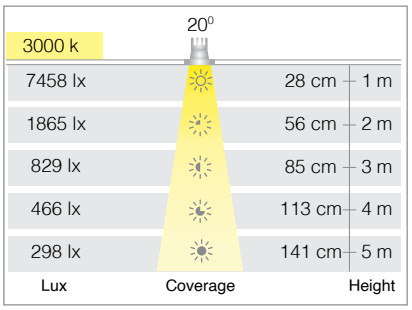
Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE COLUMBIA SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

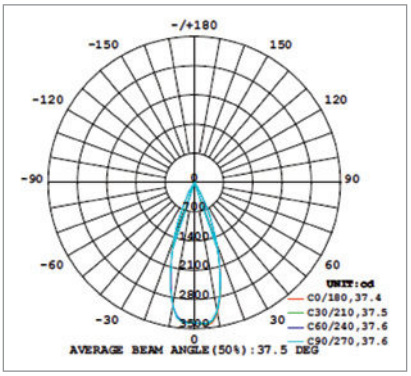
Linear Recessed Downlight, 18W

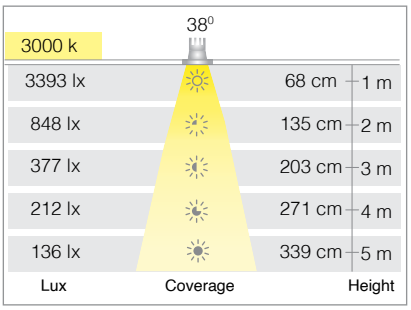
20° BEAM ANGLE



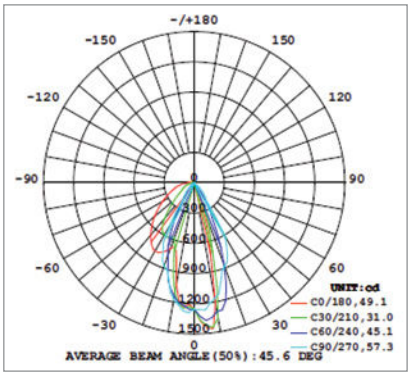


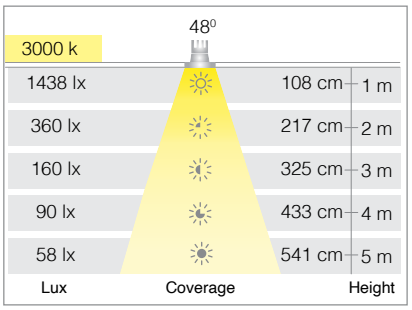
38° BEAM ANGLE



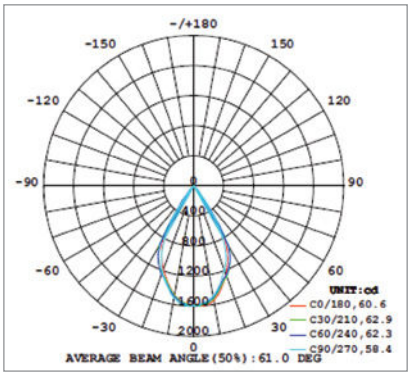


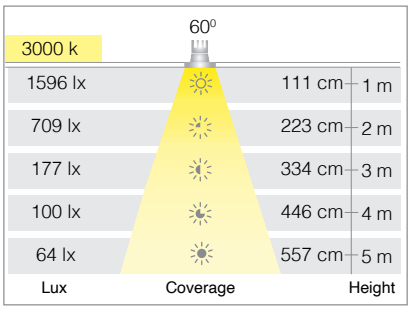
48° BEAM ANGLE





60° BEAM ANGLE



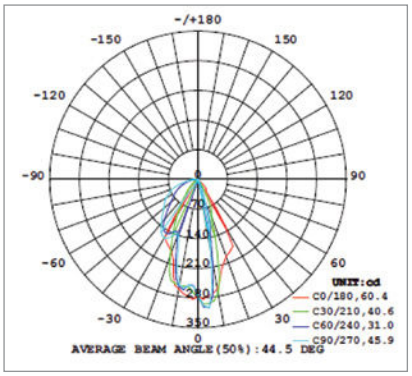


Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE COLUMBIA SERIES: LIGHT DISTRIBUTION AND AAI GRAPHS

Recessed Wall Washers

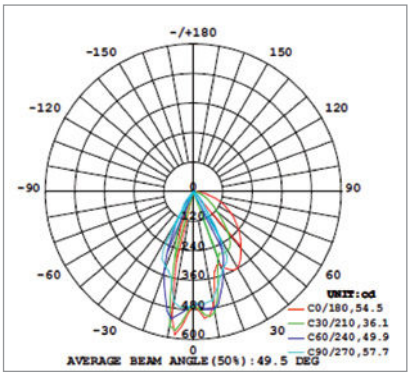
4W Luminaire



WW

3000 k			
306 lx		85cm	1 m
76 lx		170 cm	2 m
34 lx		255 cm	3 m
19 lx		340 cm	4 m
12 lx		426 cm	5 m
Lux	Coverage		Height

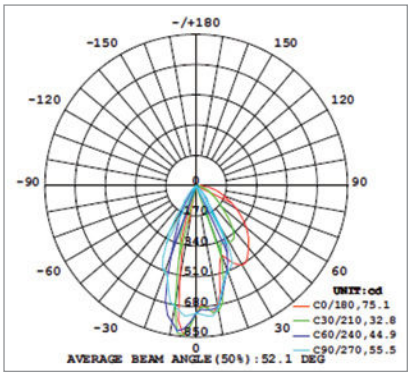
8W Luminaire



WW

3000 k			
578 lx		110 cm	1 m
143 lx		220 cm	2 m
64 lx		329 cm	3 m
36 lx		439 cm	4 m
23 lx		549 cm	5 m
Lux	Coverage		Height

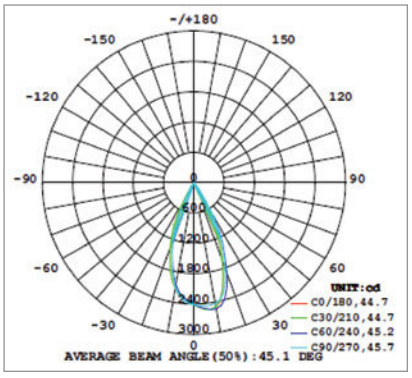
12W Luminaire



12⁰

3000 k			
847 lx		105 cm	1 m
212 lx		210 cm	2 m
94 lx		315 cm	3 m
53 lx		420 cm	4 m
34 lx		525 cm	5 m
Lux	Coverage		Height

18W Luminaire



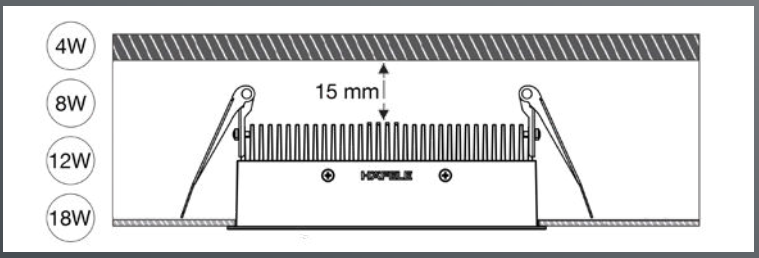
18⁰

3000 k			
2497 lx		82 cm	1 m
624 lx		164 cm	2 m
278 lx		247 cm	3 m
156 lx		329 cm	4 m
100 lx		411 cm	5 m
Lux	Coverage		Height

Note: The curves indicate the illuminated area and the average illumination when the luminaire is at a different distance.

THE COLUMBIA SERIES: INSTALLATION DETAILS

GAP BETWEEN TRUE CEILING AND LUMINAIRE



Minimum 15 mm of gap from the true ceiling to the top edge of the luminaire is required for installation of all luminaires under the Columbia series, irrespective of their wattage.

THE COLUMBIA SERIES: CONSTANT CURRENT DRIVERS

KNIGHT NEU - CONSTANT SINGLE CURRENT LED DRIVER, 3.6W, 1200mA

IP20



- SELV Equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

Technical Specifications	
Article No.	833.30.306
Input Voltage	220-240VAC, 50/60Hz
Input Current	0.04A Max.
Input Power	10W Max.
Output Current	1200mA
Output Voltage	3VDC
Max. Output Power	3.6W
Power Factor	>0.95
Ambient operating temperature range	-20ºC to +50ºC
Input Surge Protection	Yes (Line-Neutral 3.5kV)

5 YEARS GUARANTEE*

HÄFELE ARCHITECTURAL LIGHTS

THE COLUMBIA SERIES: CONSTANT CURRENT DRIVERS

KNIGHT NEU - CONSTANT SINGLE CURRENT LED DRIVER, 7.2W, 1200mA

IP20



- SELV Equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

Technical Specifications	
Article No.	833.30.307
Input Voltage	220-240VAC, 50/60Hz
Input Current	0.05A Max.
Input Power	12W Max.
Output Current	1200mA
Output Voltage	6VDC
Max. Output Power	7.2W
Power Factor	>0.95
Ambient operating temperature range	-20ºC to +50ºC
Input Surge Protection	Yes (Line-Neutral 3.5kV)

KNIGHT NEU - CONSTANT SINGLE CURRENT LED DRIVER, 10.8W, 1200mA

IP20



- SELV Equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

Technical Specifications	
Article No.	833.30.308
Input Voltage	220-240VAC, 50/60Hz
Input Current	0.08A Max.
Input Power	19.2W Max.
Output Current	1200mA
Output Voltage	9VDC
Max. Output Power	10.8W
Power Factor	>0.95
Ambient operating temperature range	-20ºC to +50ºC
Input Surge Protection	Yes (Line-Neutral 3.5kV)

THE COLUMBIA SERIES: CONSTANT CURRENT DRIVERS

KNIGHT NEU - CONSTANT SINGLE CURRENT LED DRIVER, 18W, 1200mA

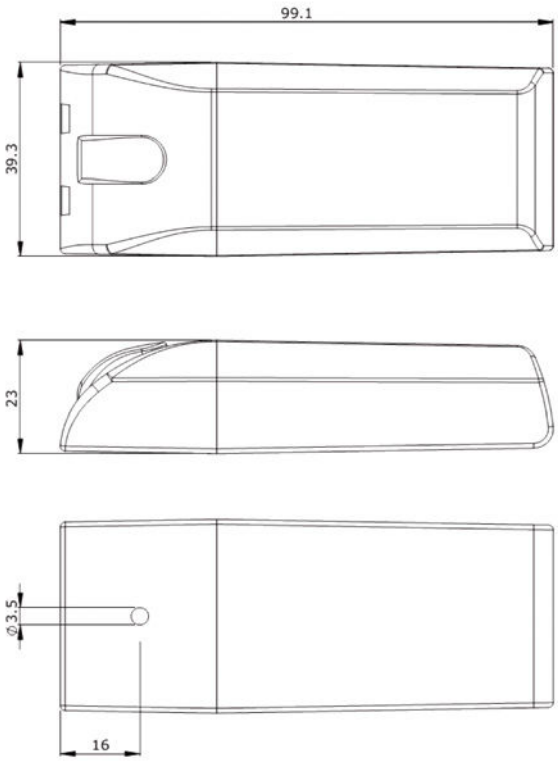
IP20



- SELV Equivalent
- Flicker-free output
- Suitable for dry locations
- Average rated life: 50,000 hours
- Sustains at 320VAC for 48 hrs. and 360VAC for 2 hrs.
- 1 channel output

Technical Specifications	
Article No.	833.30.309
Input Voltage	220-240VAC, 50/60Hz
Input Current	0.09A Max.
Input Power	21.6W Max.
Output Current	1200mA
Output Voltage	15VDC
Max. Output Power	18W
Power Factor	>0.95
Ambient operating temperature range	-20ºC to +50ºC
Input Surge Protection	Yes (Line-Neutral 3.5kV)

KNIGHT NEU, CONSTANT SINGLE CURRENT LED DRIVER - DIMENSIONS



5 YEARS GUARANTEE*

HÄFELE™ ARCHITECTURAL LIGHTS

THE COLUMBIA SERIES: ORDERING INFORMATION

1. FIXED RECESSED DOWNLIGHTS AND WALL WASHERS

Article No.	Wattage	Current	Shape	Luminaire Type	Beam Angle	Colour Temperature	Body Colour	Dimension (mm)
833.13.576	4W	1.2A	Square	Downlight	20°	27K	White	43 x 43 x 63
833.13.577	4W	1.2A	Square	Downlight	20°	30K	White	43 x 43 x 63
833.13.578	4W	1.2A	Square	Downlight	20°	40K	White	43 x 43 x 63
833.13.579	4W	1.2A	Square	Downlight	20°	27K	Black	43 x 43 x 63
833.13.580	4W	1.2A	Square	Downlight	20°	30K	Black	43 x 43 x 63
833.13.581	4W	1.2A	Square	Downlight	20°	40K	Black	43 x 43 x 63
833.13.588	4W	1.2A	Square	Downlight	38°	27K	White	43 x 43 x 63
833.13.589	4W	1.2A	Square	Downlight	38°	30K	White	43 x 43 x 63
833.13.590	4W	1.2A	Square	Downlight	38°	40K	White	43 x 43 x 63
833.13.591	4W	1.2A	Square	Downlight	38°	27K	Black	43 x 43 x 63
833.13.592	4W	1.2A	Square	Downlight	38°	30K	Black	43 x 43 x 63
833.13.593	4W	1.2A	Square	Downlight	38°	40K	Black	43 x 43 x 63
833.13.594	4W	1.2A	Square	Downlight	48°	27K	White	43 x 43 x 63
833.13.595	4W	1.2A	Square	Downlight	48°	30K	White	43 x 43 x 63
833.13.597	4W	1.2A	Square	Downlight	48°	40K	White	43 x 43 x 63
833.13.598	4W	1.2A	Square	Downlight	48°	27K	Black	43 x 43 x 63
833.13.600	4W	1.2A	Square	Downlight	48°	30K	Black	43 x 43 x 63
833.13.601	4W	1.2A	Square	Downlight	48°	40K	Black	43 x 43 x 63
833.13.602	4W	1.2A	Square	Downlight	60°	27K	White	43 x 43 x 63
833.13.603	4W	1.2A	Square	Downlight	60°	30K	White	43 x 43 x 63
833.13.604	4W	1.2A	Square	Downlight	60°	40K	White	43 x 43 x 63
833.13.606	4W	1.2A	Square	Downlight	60°	27K	Black	43 x 43 x 63
833.13.607	4W	1.2A	Square	Downlight	60°	30K	Black	43 x 43 x 63
833.13.608	4W	1.2A	Square	Downlight	60°	40K	Black	43 x 43 x 63
833.13.610	4W	1.2A	Square	Wall Washer	WW	27K	White	43 x 43 x 63
833.13.611	4W	1.2A	Square	Wall Washer	WW	30K	White	43 x 43 x 63
833.13.612	4W	1.2A	Square	Wall Washer	WW	40K	White	43 x 43 x 63
833.13.613	4W	1.2A	Square	Wall Washer	WW	27K	Black	43 x 43 x 63
833.13.614	4W	1.2A	Square	Wall Washer	WW	30K	Black	43 x 43 x 63
833.13.615	4W	1.2A	Square	Wall Washer	WW	40K	Black	43 x 43 x 63
833.13.616	8W	1.2A	Rectangle	Linear Downlight	20°	27K	White	43 x 73 x 63
833.13.617	8W	1.2A	Rectangle	Linear Downlight	20°	30K	White	43 x 73 x 63
833.13.618	8W	1.2A	Rectangle	Linear Downlight	20°	40K	White	43 x 73 x 63
833.13.619	8W	1.2A	Rectangle	Linear Downlight	20°	27K	Black	43 x 73 x 63
833.13.620	8W	1.2A	Rectangle	Linear Downlight	20°	30K	Black	43 x 73 x 63
833.13.621	8W	1.2A	Rectangle	Linear Downlight	20°	40K	Black	43 x 73 x 63
833.13.628	8W	1.2A	Rectangle	Linear Downlight	38°	27K	White	43 x 73 x 63
833.13.629	8W	1.2A	Rectangle	Linear Downlight	38°	30K	White	43 x 73 x 63
833.13.630	8W	1.2A	Rectangle	Linear Downlight	38°	40K	White	43 x 73 x 63
833.13.631	8W	1.2A	Rectangle	Linear Downlight	38°	27K	Black	43 x 73 x 63
833.13.632	8W	1.2A	Rectangle	Linear Downlight	38°	30K	Black	43 x 73 x 63

THE COLUMBIA SERIES: ORDERING INFORMATION

1. FIXED RECESSED DOWNLIGHTS AND WALL WASHERS

Article No.	Wattage	Current	Shape	Luminaire Type	Beam Angle	Colour Temperature	Body Colour	Dimension (mm)
833.13.633	8W	1.2A	Rectangle	Linear Downlight	38°	40K	Black	43 x 73 x 63
833.13.634	8W	1.2A	Rectangle	Linear Downlight	48°	27K	White	43 x 73 x 63
833.13.635	8W	1.2A	Rectangle	Linear Downlight	48°	30K	White	43 x 73 x 63
833.13.636	8W	1.2A	Rectangle	Linear Downlight	48°	40K	White	43 x 73 x 63
833.13.637	8W	1.2A	Rectangle	Linear Downlight	48°	27K	Black	43 x 73 x 63
833.13.638	8W	1.2A	Rectangle	Linear Downlight	48°	30K	Black	43 x 73 x 63
833.13.639	8W	1.2A	Rectangle	Linear Downlight	48°	40K	Black	43 x 73 x 63
833.13.640	8W	1.2A	Rectangle	Linear Downlight	60°	27K	White	43 x 73 x 63
833.13.641	8W	1.2A	Rectangle	Linear Downlight	60°	30K	White	43 x 73 x 63
833.13.642	8W	1.2A	Rectangle	Linear Downlight	60°	40K	White	43 x 73 x 63
833.32.704	8W	1.2A	Rectangle	Linear Downlight	60°	27K	Black	43 x 73 x 63
833.13.644	8W	1.2A	Rectangle	Linear Downlight	60°	30K	Black	43 x 73 x 63
833.13.645	8W	1.2A	Rectangle	Linear Downlight	60°	40K	Black	43 x 73 x 63
833.13.646	8W	1.2A	Rectangle	Linear Wall Washer	WW	27K	White	43 x 73 x 63
833.13.647	8W	1.2A	Rectangle	Linear Wall Washer	WW	30K	White	43 x 73 x 63
833.13.648	8W	1.2A	Rectangle	Linear Wall Washer	WW	40K	White	43 x 73 x 63
833.13.649	8W	1.2A	Rectangle	Linear Wall Washer	WW	27K	Black	43 x 73 x 63
833.13.650	8W	1.2A	Rectangle	Linear Wall Washer	WW	30K	Black	43 x 73 x 63
833.13.651	8W	1.2A	Rectangle	Linear Wall Washer	WW	40K	Black	43 x 73 x 63
833.13.652	12W	1.2A	Rectangle	Linear Downlight	20°	27K	White	43 x 103 x 63
833.13.653	12W	1.2A	Rectangle	Linear Downlight	20°	30K	White	43 x 103 x 63
833.13.654	12W	1.2A	Rectangle	Linear Downlight	20°	40K	White	43 x 103 x 63
833.13.655	12W	1.2A	Rectangle	Linear Downlight	20°	27K	Black	43 x 103 x 63
833.13.656	12W	1.2A	Rectangle	Linear Downlight	20°	30K	Black	43 x 103 x 63
833.13.657	12W	1.2A	Rectangle	Linear Downlight	20°	40K	Black	43 x 103 x 63
833.13.664	12W	1.2A	Rectangle	Linear Downlight	38°	27K	White	43 x 103 x 63
833.13.665	12W	1.2A	Rectangle	Linear Downlight	38°	30K	White	43 x 103 x 63
833.13.666	12W	1.2A	Rectangle	Linear Downlight	38°	40K	White	43 x 103 x 63
833.13.667	12W	1.2A	Rectangle	Linear Downlight	38°	27K	Black	43 x 103 x 63
833.13.668	12W	1.2A	Rectangle	Linear Downlight	38°	30K	Black	43 x 103 x 63
833.13.669	12W	1.2A	Rectangle	Linear Downlight	38°	40K	Black	43 x 103 x 63
833.13.670	12W	1.2A	Rectangle	Linear Downlight	48°	27K	White	43 x 103 x 63
833.13.671	12W	1.2A	Rectangle	Linear Downlight	48°	30K	White	43 x 103 x 63
833.13.672	12W	1.2A	Rectangle	Linear Downlight	48°	40K	White	43 x 103 x 63
833.13.673	12W	1.2A	Rectangle	Linear Downlight	48°	27K	Black	43 x 103 x 63
833.13.674	12W	1.2A	Rectangle	Linear Downlight	48°	30K	Black	43 x 103 x 63
833.13.675	12W	1.2A	Rectangle	Linear Downlight	48°	40K	Black	43 x 103 x 63
833.13.676	12W	1.2A	Rectangle	Linear Downlight	60°	27K	White	43 x 103 x 63
833.13.677	12W	1.2A	Rectangle	Linear Downlight	60°	30K	White	43 x 103 x 63
833.13.678	12W	1.2A	Rectangle	Linear Downlight	60°	40K	White	43 x 103 x 63

THE COLUMBIA SERIES: ORDERING INFORMATION

1. FIXED RECESSED DOWNLIGHTS AND WALL WASHERS

Article No.	Wattage	Current	Shape	Luminaire Type	Beam Angle	Colour Temperature	Body Colour	Dimension (mm)
833.13.679	12W	1.2A	Rectangle	Linear Downlight	60°	27K	Black	43 x 103 x 63
833.13.680	12W	1.2A	Rectangle	Linear Downlight	60°	30K	Black	43 x 103 x 63
833.13.681	12W	1.2A	Rectangle	Linear Downlight	60°	40K	Black	43 x 103 x 63
833.13.682	12W	1.2A	Rectangle	Linear Wall Washer	WW	27K	White	43 x 103 x 63
833.13.683	12W	1.2A	Rectangle	Linear Wall Washer	WW	30K	White	43 x 103 x 63
833.13.684	12W	1.2A	Rectangle	Linear Wall Washer	WW	40K	White	43 x 103 x 63
833.13.685	12W	1.2A	Rectangle	Linear Wall Washer	WW	27K	Black	43 x 103 x 63
833.13.686	12W	1.2A	Rectangle	Linear Wall Washer	WW	30K	Black	43 x 103 x 63
833.13.687	12W	1.2A	Rectangle	Linear Wall Washer	WW	40K	Black	43 x 103 x 63
833.13.688	18W	1.2A	Rectangle	Linear Downlight	20°	27K	White	43 x 163 x 63
833.13.689	18W	1.2A	Rectangle	Linear Downlight	20°	30K	White	43 x 163 x 63
833.13.690	18W	1.2A	Rectangle	Linear Downlight	20°	40K	White	43 x 163 x 63
833.13.691	18W	1.2A	Rectangle	Linear Downlight	20°	27K	Black	43 x 163 x 63
833.13.692	18W	1.2A	Rectangle	Linear Downlight	20°	30K	Black	43 x 163 x 63
833.13.693	18W	1.2A	Rectangle	Linear Downlight	20°	40K	Black	43 x 163 x 63
833.13.770	18W	1.2A	Rectangle	Linear Downlight	38°	27K	White	43 x 163 x 63
833.13.771	18W	1.2A	Rectangle	Linear Downlight	38°	30K	White	43 x 163 x 63
833.13.772	18W	1.2A	Rectangle	Linear Downlight	38°	40K	White	43 x 163 x 63
833.13.773	18W	1.2A	Rectangle	Linear Downlight	38°	27K	Black	43 x 163 x 63
833.13.774	18W	1.2A	Rectangle	Linear Downlight	38°	30K	Black	43 x 163 x 63
833.13.775	18W	1.2A	Rectangle	Linear Downlight	38°	40K	Black	43 x 163 x 63
833.13.776	18W	1.2A	Rectangle	Linear Downlight	48°	27K	White	43 x 163 x 63
833.13.777	18W	1.2A	Rectangle	Linear Downlight	48°	30K	White	43 x 163 x 63
833.13.778	18W	1.2A	Rectangle	Linear Downlight	48°	40K	White	43 x 163 x 63
833.13.779	18W	1.2A	Rectangle	Linear Downlight	48°	27K	Black	43 x 163 x 63
833.13.780	18W	1.2A	Rectangle	Linear Downlight	48°	30K	Black	43 x 163 x 63
833.13.781	18W	1.2A	Rectangle	Linear Downlight	48°	40K	Black	43 x 163 x 63
833.13.782	18W	1.2A	Rectangle	Linear Downlight	60°	27K	White	43 x 163 x 63
833.13.783	18W	1.2A	Rectangle	Linear Downlight	60°	30K	White	43 x 163 x 63
833.13.784	18W	1.2A	Rectangle	Linear Downlight	60°	40K	White	43 x 163 x 63
833.13.785	18W	1.2A	Rectangle	Linear Downlight	60°	27K	Black	43 x 163 x 63
833.13.786	18W	1.2A	Rectangle	Linear Downlight	60°	30K	Black	43 x 163 x 63
833.13.787	18W	1.2A	Rectangle	Linear Downlight	60°	40K	Black	43 x 163 x 63
833.13.788	18W	1.2A	Rectangle	Linear Wall Washer	WW	27K	White	43 x 163 x 63
833.13.789	18W	1.2A	Rectangle	Linear Wall Washer	WW	30K	White	43 x 163 x 63
833.13.792	18W	1.2A	Rectangle	Linear Wall Washer	WW	40K	White	43 x 163 x 63
833.13.793	18W	1.2A	Rectangle	Linear Wall Washer	WW	27K	Black	43 x 163 x 63
833.13.794	18W	1.2A	Rectangle	Linear Wall Washer	WW	30K	Black	43 x 163 x 63
833.13.795	18W	1.2A	Rectangle	Linear Wall Washer	WW	40K	Black	43 x 163 x 63

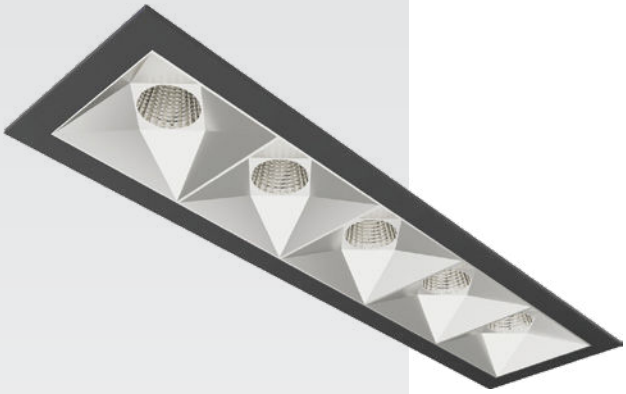
THE COLUMBIA SERIES: ORDERING INFORMATION

2. DRIVERS

Article No.	Description	Current
833.30.306	Knight NEU - Constant Single Current LED Driver, 3.6W	1200mA
833.30.307	Knight NEU - Constant Single Current LED Driver, 7.2W	1200mA
833.30.308	Knight NEU - Constant Single Current LED Driver, 10.8W	1200mA
833.30.309	Knight NEU - Constant Single Current LED Driver, 18W	1200mA
833.13.907*	Prince Dali CC Automation Dimming Driver 3-52VDC,1050-1500mA	1500mA Max.

*Note: Prince Dali CC Automation Dimming Drivers are to be used only in automation projects where dimming is required.





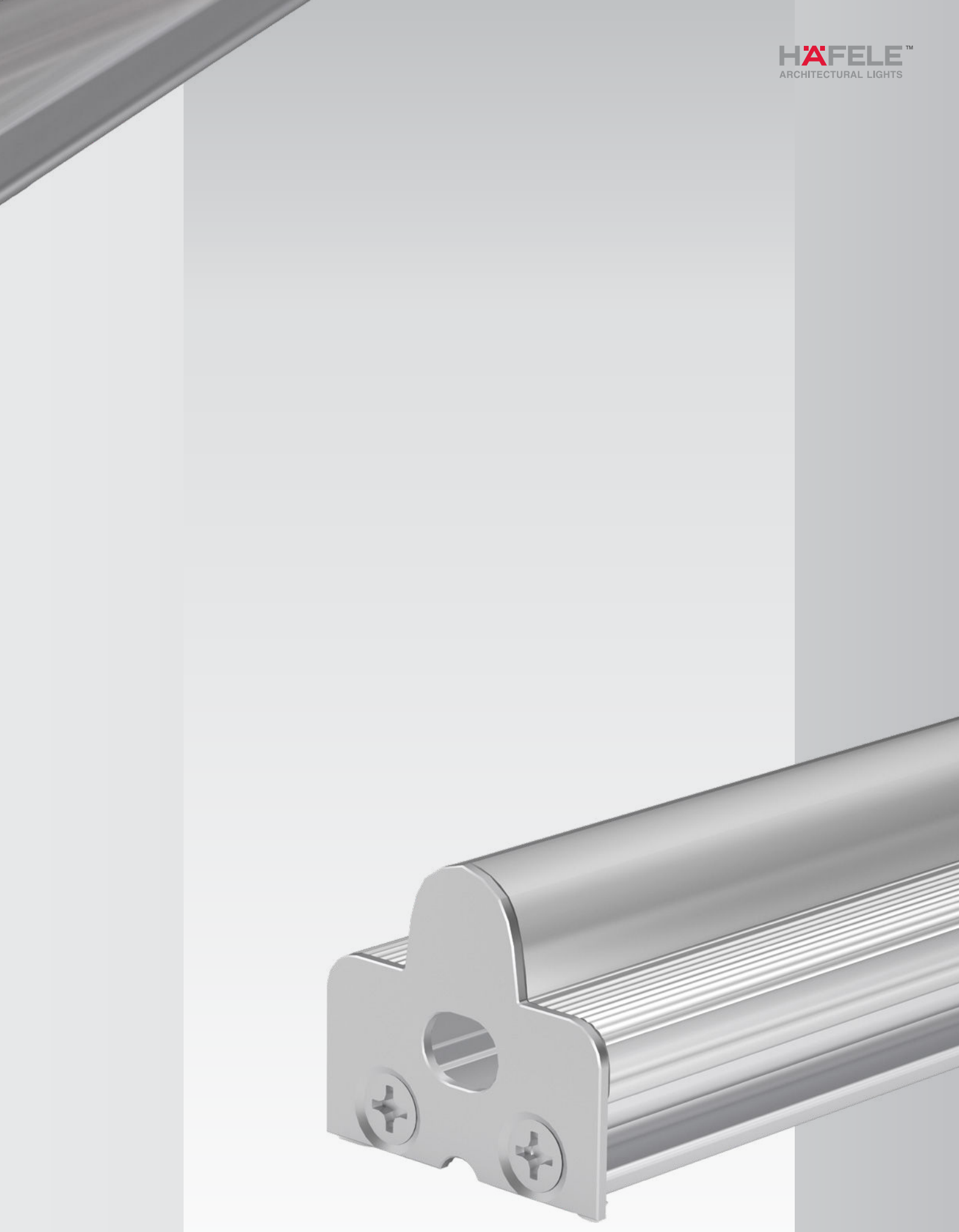


HÄFELE™
ARCHITECTURAL LIGHTS



LINEAR LIGHTS

HÄFELE™
ARCHITECTURAL LIGHTS



HÄFELE™
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HÄFELE™
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LINEAR LENS

With Häfele's Linear Lens,experience brilliance like never! The well thought-out, patented lighting solution helps provide enhanced illumination in the targeted area and is ideal for kitchen worktops and for cupboard or shelf lighting applications. It can also function as wall washers in living areas.

While the Häfele Loox5 Range of Profiles and Strip Lights provide flawless accents that create a welcoming ambience, the new, made in Germany, linear lens presents a compelling take on task lighting. Its asymmetrical form bundles the light from the LED strip and directs it into a limiting angle which helps double its brightness in the desired focus area. Crafted exclusively to aid integration of lighting into furniture construction, the linear lens diffuses almost the entire light output onto the work area, with the slightest scatter loss and an extremely diminished glare effect.

THE LINEAR LENS: FEATURES

1. The lens achieves the following improvement over a traditional profile light without a focusing lens

- Brighter: Increase in illuminance (in lx) by 100% which means that the Linear Lens amplifies the light and, optimally distributes and guides it in the desired focused area.
- Glare-Free: Directed light distribution reduces glare by 85% in undesirable areas.





2. Innovation. That‘s what the Häfele linear lens stands for.

Product innovation:
The lens attacks the light directly above the LED chip which helps augment the overall light output. It also functions as a cover for the Linear Lens Aluminum Profile.

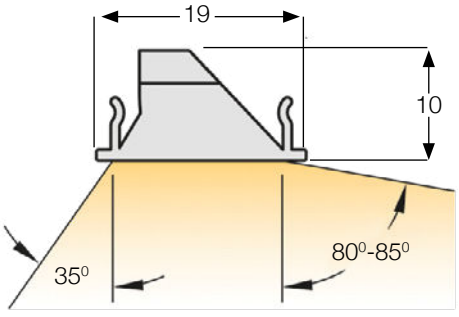
Craft innovation:
The lens is specifically tailored to the needs of the furniture installers. Although it functions differently as compared to a conventional profile light, it can be assembled and installed just as easily, ensuring error-free operations.

System innovation:
The Linear Lens works flawlessly with the Loox5 Strip Lights. The control takes place either via the Loox Switch Range or via the latest Häfele Connect System - BLE mesh technology (to be launched).

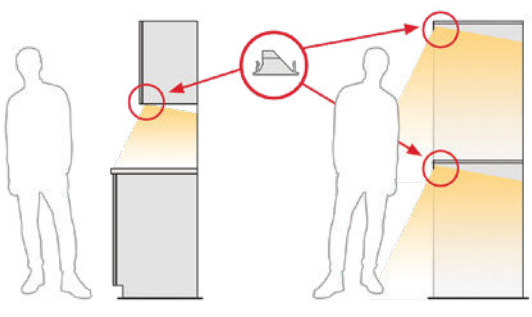
Light innovation:
Currently, there exists no linear lens technology developed and optimised for the needs of furniture lighting. Häfele together with the renowned lighting technology institute, Bartenbach GmbH from Austria, has designed this lens with an objective of achieving targeted light diffusion over work surfaces.

Furniture innovation:
The development of this lens, makes light a fundamental extension to the way furniture is perceived. Almost the entire light output, with onlythe slightest scatter loss, is well distributed onto the work area.

3. Application



The linear lens has a beam angle of approximately 120° in cross-section (-35° to +85°).
It provides 80 - 85° illumination in the functional area.



Kitchen Countertops | Storage Countertops

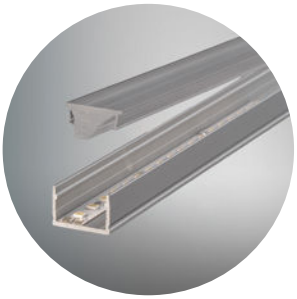
Recessed mounting; ideal for kitchen worktops and for cupboard or shelf lighting applications. Can also function as wall washers and curtain grazers in living areas.

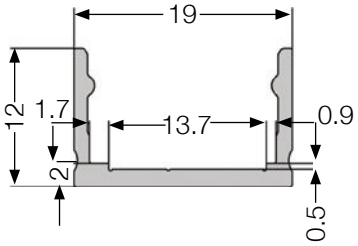
THE LINEAR LENS: RANGE SPECIFICATIONS

Material	PMMA* (Lens), Aluminium (Profile) *Polymethyl Methacrylate Acrylic
Mounting	Recessed
Quality standards	Protected Häfele in-house assortment, made in Germany with certified Häfele standards
Compatibility	With the Häfele Loox5 Lighting System. Can be used with the standard 5 mm and 8 mm strip lights
Connectivity	Can be controlled via the BLE Mesh (to be launched) with the smartphone APP or Loox Range of Switches
Installation	Quick assembly, easy configuration and straight-forward operation
Applications	Indoor: Kitchen worktops, cupboard/shelf lighting, can also function as wall washers and curtain grazers in living areas

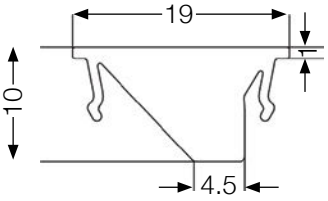
PROFILE FOR RECESS MOUNTING WALL WASHERS

IP20 UGR<19

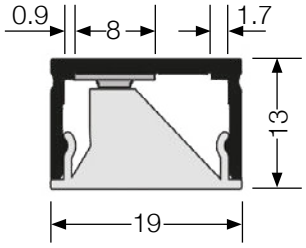




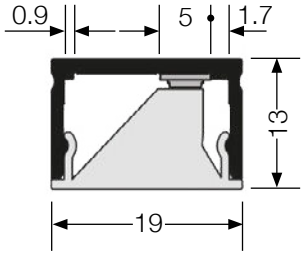
Profile: Cross section



Linear Lens: Cross section



With 8 mm strip light



With 5 mm strip light

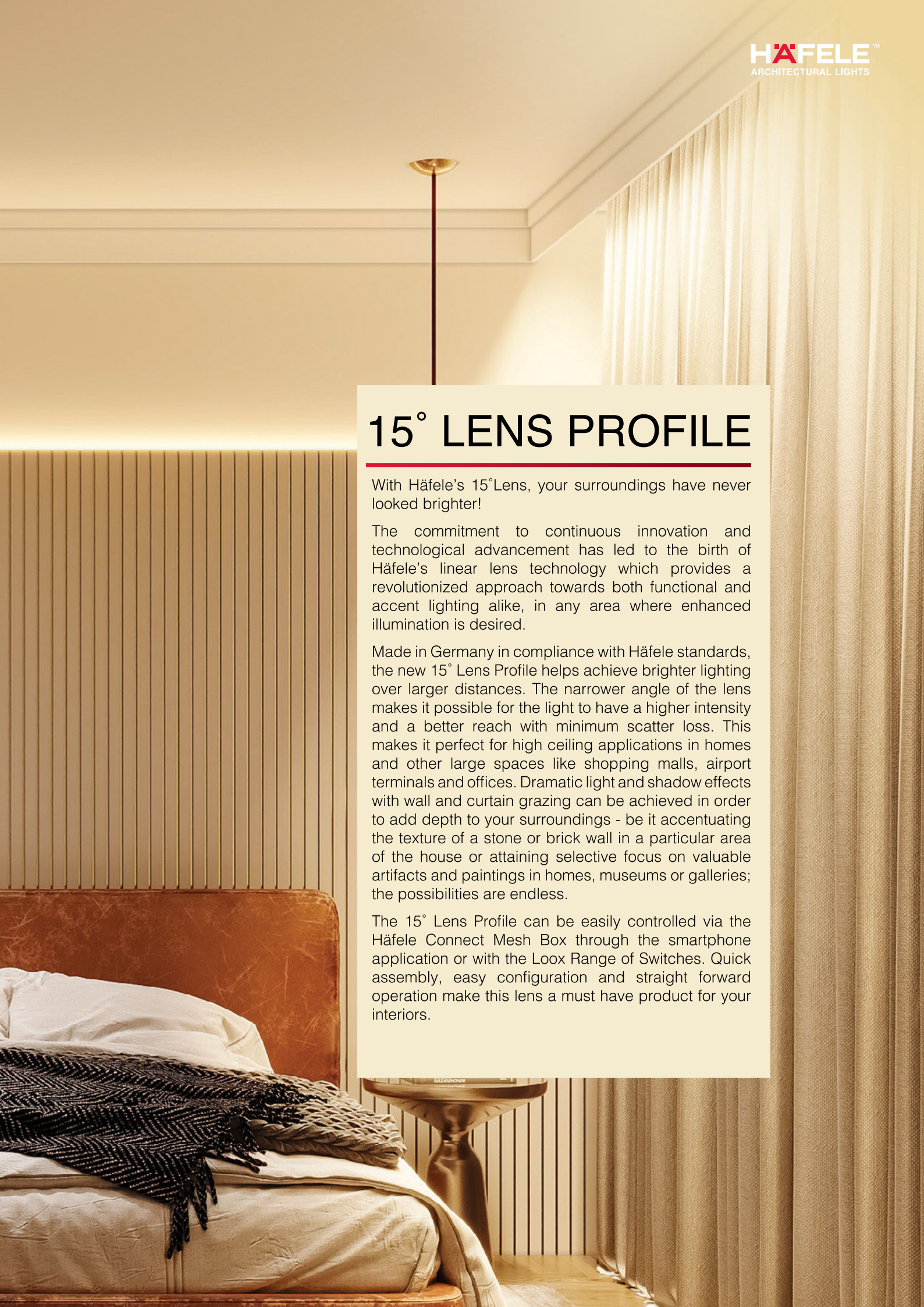
Description	Linear lens
Beam angle	120° in cross-section (-35° to +85°)

THE LINEAR LENS: ORDERING INFORMATION

Article No.	Material	Mounting Technique	Colour	Qty (Nos)	Description	Dimensions (mm)
833.89.300	PMMA	Recessed	Silver	1	LED Linear Lens	2500 x 19 x 10
833.01.870	Aluminium	Recessed	Silver	1	Linear Lens Profile	2500 x 19 x 12
833.01.764	ABS	Recessed	Silver	2	End Cap for Linear Lens	19 x 3 x 4

HÄFELE™
ARCHITECTURAL LIGHTS





HÄFELE
ARCHITECTURAL LIGHTS

15° LENS PROFILE

With Häfele's 15°Lens, your surroundings have never looked brighter!

The commitment to continuous innovation and technological advancement has led to the birth of Häfele's linear lens technology which provides a revolutionized approach towards both functional and accent lighting alike, in any area where enhanced illumination is desired.

Made in Germany in compliance with Häfele standards, the new 15° Lens Profile helps achieve brighter lighting over larger distances. The narrower angle of the lens makes it possible for the light to have a higher intensity and a better reach with minimum scatter loss. This makes it perfect for high ceiling applications in homes and other large spaces like shopping malls, airport terminals and offices. Dramatic light and shadow effects with wall and curtain grazing can be achieved in order to add depth to your surroundings - be it accentuating the texture of a stone or brick wall in a particular area of the house or attaining selective focus on valuable artifacts and paintings in homes, museums or galleries; the possibilities are endless.

The 15° Lens Profile can be easily controlled via the Häfele Connect Mesh Box through the smartphone application or with the Loox Range of Switches. Quick assembly, easy configuration and straight forward operation make this lens a must have product for your interiors.

THE 15˚ LENS PROFILE: FEATURES

1. The lens achieves the following improvement over a traditional profile light without a focusing lens

- Brighter: Increase in illuminance (in lx) compared to standard diffuser-based profile lights which means that the 15˚ Lens Profile amplifies the light and owing to the narrow beam angle, guides it towards the desired area of focus with minimal scatter loss
- Versatile: Can be used in wall /curtain grazing and accent lighting applications in different residential and commercial areas.

2. Innovation. That‘s what the Häfele linear lens stands for.

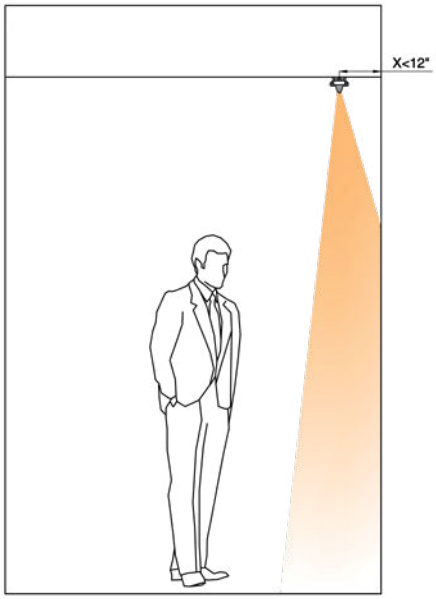
Product innovation:
While diffuser-based profile light is used for homogeneous lighting, lens-based profile lighting is better for applications that need brighter light intensity at a larger distance. The lens attacks the light directly above the LED chip which helps augment the overall light output. The smaller angle of the 15° Lens Profile provides a narrow light beam that travels more distance with minimal loss, compared to other conventional diffuserbased profile lights commonly available in the market.

Craft innovation:
The lens is specifically tailored to cater wall and curtain grazing applications. Although it functions differently as compared to a conventional profile light, it can be assembled and installed just as easily, due to its plug and play system ensuring error-free operations.

Light innovation:
The products currently available in the market for ceiling lighting are not conducive to installations over larger lengths due to complexities in their construction and installation. Häfele’s 15° Lens Profile with a length of 2000 mm makes continuous installation across the lengths of entire rooms not only possible but also simple.

System innovation:
The 15° Lens Profile works flawlessly with the Loox5 Strip Lights. The control takes place either via the Loox Switch Range or via the latest Häfele Connect Mesh Box System.

3. Application



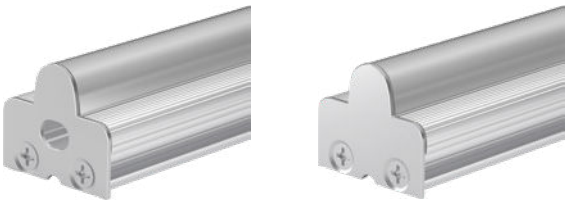
The linear lens has a beam angle of 15° causing the light intensity to be higher even at a farther distance.

4. Easy assembly



Aluminium Profile + 15° Lens Profile + Pair of End Caps with Screws*

=



15° Lens Profile

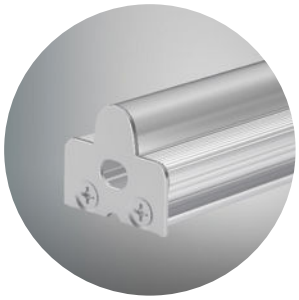
* The pair includes one end cap with a slot to route electrical wires through it. This end cap can be installed on either side based on the electrical wiring and position of the power supply.

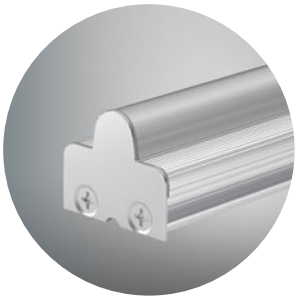
THE 15˚ LENS PROFILE: SPECIFICATIONS

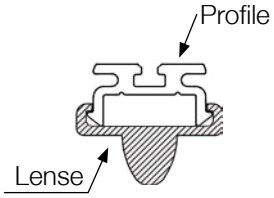
Material	PMMA* (Lens), Aluminium (Profile) *Polymethyl Methacrylate Acrylic
Mounting	Surface
Quality standards	In-house assortment manufactured in Germany adhering to certified Häfele standards
Compatibility	Fully compatible with the Häfele Loox5 lighting system. Can be used with Loox5 5 mm and 8 mm LED strip lights
Connectivity	Can be controlled via the BLE Mesh (to be launched) with the smartphone app or loox range of switches
Installation	Quick assembly, easy configuration and straight-forward operation
Applications	Surface mounting; ideal for wall and curtain grazing applications in residential spaces, retail shopping areas, airport terminals, commercial spaces, hotels and banquet halls, museums and galleries.

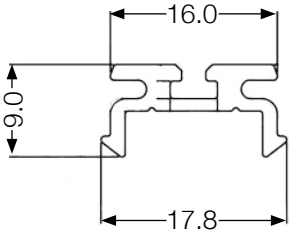
PROFILE FOR RECESS MOUNTING WALL WASHERS

IP20 UGR <19

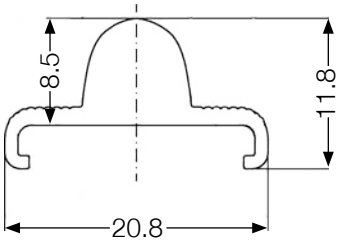




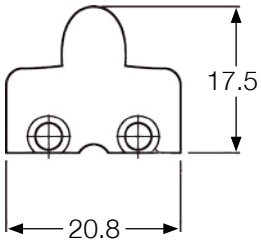




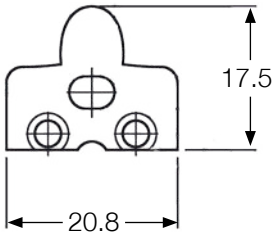
Profile: Cross Section



Linear Lens: Cross Section



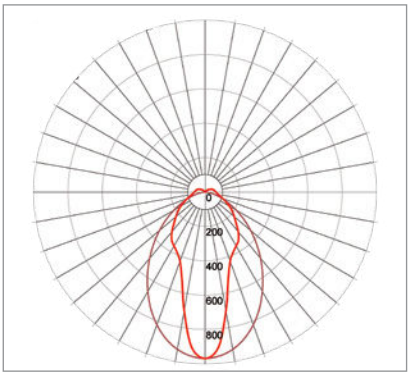
End Cap (Without Slot)



End Cap (With Slot)

THE 15˚ LENS PROFILE: LIGHT DISTRIBUTION GRAPH

15° BEAM ANGLE



THE 15˚ LENS PROFILE: ORDERING INFORMATION

Article No.	Material	Mounting Technique	Colour	Qty (Nos)	Description	Dimensions (mm)
833.72.959	Lens-PMMA, Profile-Aluminium	Surface	Silver	Profile- 1 Lens- 1	Linear Profile Lens 15˚	2000X21X12
833.01.870	Aluminium end caps	NA	Silver	2	Set Of 2 End caps for 15˚ Lens	2500 x 19 x 12
833.01.906	Mounting brackets	NA	Silver	2	15˚ Lens Profile mounting clip	25 x 25 x 10



Wall Grazing:
Residential Spaces / Museums / Galleries



Wall and Curtain Grazing:
Bedrooms / Hotel Rooms

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Haji Moosa Patrawala Ind.(SOBO)
Estate, Near Famous Studio,
Mahalaxmi (West), Mumbai - 400 011
Tel.: 022 6264 7100

Mumbai Design Centre:
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L.B.S. Marg, Bhandup (West),
Mumbai - 400 078
Tel.: 022 2596 9660 / 2596 9787 /
2594 7305

Pune Design Centre:
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F P No. 403, A/2, ICC Trade Tower,
Senapati Bapat Marg,
Shivaji Nagar, Pune - 411 016
Tel.: 020 2563 3301
Fax: 020 2563 3302

Pune Office:
Office No. 12, Vastushree Complex,
Survey No.587,
Near Hyde Park, Gultekdi,
Market Yard, Pune - 411 037
Tel.: 020 2426 6264
Fax: 020 2426 6274

Ahmedabad Office:
Häfele India Pvt. Ltd., Office No. 302,
3rd Floor, Shangrila Arcade, Near
Shyamal Cross Road, Satellite,
Ahmedabad - 380 015
Tel.: +91 79695 55505 / 88662 20505

New Delhi Office & Design Centre:
D-89 , 1st Floor, Okhla Phase-I,
New Delhi - 110 020
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Fax: 011 4160 5482

Chandigarh Office:
Godrej Eternia, Wing A, 2nd Floor,
WL2, Plot No.70, Industrial Area
Phase I, Chandigarh - 160 002
Mob.: +91 85588 44448

Jaipur Office:
Airport Plaza, Plot No.15, 1st & 2nd
floor, Tonk Road, Next to Cocoon
Hospital, Jaipur, Rajasthan - 302 016
Mob.: +91 98887 77796

Kolkata Design Centre:
PS PACE, Premises No. 1/1A,
Mahendra Roy Lane, Topsia,
Kolkata - 700 046
Tel.: 033 4008 6814 / 4008 9268
Fax: 033 2498 8020

Kolkata Office:
Office No. 1001, PS Continental,
10th Floor, 83/2/1 Topsia Road,
Near Vishwakarma Building.
South Kolkata - 700 046
Tel: 033 2285 0104 / 5 / 6

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Road, Shanti Nagar,
Bangalore - 560 025
Tel.: 080 4132 6116
Fax: 080 4132 6226

Bangalore
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Shantinagar, Bangalore - 560 027
Tel.: 080 4142 6336

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Hyderabad - 500 032
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Nungambakkam, Chennai - 600 006
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C34, Chalikkavattom, North
Ponnurunni, Vyttila, Cochin - 682010

Sri Lanka:
Häfele Office and Design Centre:
52, Nandana Gardens
(On Duplication Road), Colombo 04.
Tel: +94 112 500 501
Fax: +94 112 500 553

Häfele Design Centre:
448, Galle Road, Rawathawatta,
Moratuwa, Sri Lanka.
Tel.: +94 112 644 600

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Kandy, Sri Lanka.
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Bangladesh Office:
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Mohakhali DOHS, Dhaka - 1206.
Tel.: 018 4401 8431 / 32 / 33 / 37

Bangladesh Design Center:
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Block - E, Banani, Dhaka - 1213
Tel.: +880 2 - 4881 0380 / 81

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UHS Holdings Pvt. Ltd.
Kathmandu-2, Gairidhara Chowk,
Nepal.
Mob.: +977 98023 38800

Bhutan:
SMART HOMES
Gr. Floor, Druk Building (Opp Helipad)
Babesa -Thimpu Expressway, Thimpu
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Mob.: +975 - 7727 7615 / 1783 9717 /
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