

switch to smart

(CK BIRLA GROUP





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240, Okhla Industrial Estate Phase III
New Delhi-110020

Fans | Home Appliances | Lighting | Switchgear





# **OUR JOURNEY**

# SEVEN DECADES OF TRUST, INNOVATION & EXCELLENCE

We started our journey more than 70 years ago, manufacturing and distributing highly efficient, premium quality fans. Since then, we have become one of the leading consumer electrical brands in India. Today, we are the largest manufacturer and exporter of fans from India with a dominating global presence in over 35 international markets. In the domestic market, we enjoy a robust pan-India reach, with over 1 lakh retail outlets and a service network covering 300 cities aided by a 24x7 call center. Not only this, we have also paved the way for pioneering pride in our R&D capabilities, spirit of continuous innovation and commitment to manufacturing cutting-edge lifestyle electrical products always strived to achieve and exceed industry benchmarks in quality and continue to partner our customers at every stage of their lives by offering superior lifestyle solutions with technology that makes their world safer, easier and creatively inspiring. Orient Electric offers a diverse variety of lighting solutions apart from its equally diverse range of fans and home appliances. Advancing with modern requirements, the brand constantly upgrades to newer technologies. These, being low on cost and more efficient, are used for industrial lighting and outdoor, and also for specialised lighting requirements. With the power of the most futuristic and smartest lighting solutions, it's so easy to switch to smart.

# OUR JOURNEY

# FELICITATIONS THAT SPUR US ON

Orient Electric and its efforts towards excellence have been lauded by several awards and accolades. Here is a look at some of the most prominent ones.

#### Superbrand, 2016 & 2017

Orient Electric was named a 'Superbrand' two times in a row in Consumer Durable category in 2016 & 2017.

#### **ASSOCHAM's Corporate Excellence Award, 2016**

Orient Electric received the award for The 'Comeback Brand' in the consumer durables category at the ASSOCHAM National Brand Summit & Excellence Awards in 2016. The prestigious awards felicitate Indian brands working in various sectors towards excellence and innovation.

#### Make in India Award for Excellence, 2015

Orient Electric bagged the prestigious 'Make in India Award for Excellence' in the consumer electrical products category in 2015. The 'Make in India Awards for Excellence' recognise contributions that enable India to become a leading global economy.

#### **Most Trusted Brand, 2015**

Orient Electric earned the status of being one of India's most trusted brands in 2015, as per a Nielsen survey. It was listed in the consumer durables category in the Most Trusted Brand Survey report.

#### **Global Quality Award, 2015**

Orient Electric bagged the prestigious 'Global Quality Award' for the quality energy-efficient lighting products Manufacturer of the Year in 2016. The 'Global Quality Awards' recognise doers and pioneers across the manufacturing sector in India.

#### Icon of the Year, 2015

Orient Electric won the "Icon of the Year' award in the lighting & switchgear category in 2015. The Brands Academy 'Icon of the Year' Awards are given to select individuals, brands and organisations to recognise their outstanding contributions to the economic growth of India.







# WHY ORIENT?

A pioneer of innovation in lighting and more, Orient is a name you can always put your trust in.

- Orient Electric offers a wide range of lighting products, from LED lighting and fixtures to energy-efficient light bulbs, batten and tube lights, as well as consumer and professional luminaires
- Smart lighting at Orient Electric stands for four P's: People, Power, Planet and Performance. Our LED lighting solutions comply with photobiological safety norms and are environment-friendly, save energy, and perform even in trying temperature conditions, from cold storages to boiler rooms.
- Orient Electric provides lighting solutions for the professional and consumer segments, catering to commercial, industrial and residential needs.
- Orient Electric operates major manufacturing facility in Noida (Uttar Pradesh).
- Orient Electric has a wide network made up of 500 distributors and over 50,000 direct/indirect retail shops, efficiently serviced by 20 company depots across India.
- Orient Electric is one of the first companies in India to receive a 3-star BEE rating for all the wattages. It's also the only brand to have a 5-star rating for selected wattages.
- Orient Electric is the first company to launch Flicker Controlled Lights with their EyeLuv.
- Orient Electric is a regular and prominent supplier of various LED lights to the Indian government through Energy Efficiency Services Limited (EESL).

1-16	EYELUV LIGHTING
17-52	INDOOR LIGHTING
53-60	RETAIL LIGHTING
61-78	INDUSTRIAL LIGHTING
79-92	OUTDOOR LIGHTING
93-102	SOLAR LIGHTING
103-124	LANDSCAPE LIGHTING

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# **Presenting**





Orient EyeLuv LED lights come with Flicker-Control Technology that reduces the impact of LED flicker and its effects, like eye strain and eye fatigue, making them better and safer for overall eye health.







# **YOUR LED LIGHTS HAVE FLICKER THAT** IS NOT VISIBLE.

Flicker is the constant fluctuation of light output. It can be divided into two kinds: Visible and Invisible. While Visible Flicker can be seen with your eyes, Invisible Flicker is at a high frequency and therefore not visible to the naked eye.

#### **HOW DOES LED LIGHTS' FLICKER AFFECT YOU?**

- Blurred vision and eye strain
- Reduced visual task performance
- Apparent slowing or stopping of motion
- Epileptic seizure and other neurological problems
- Headache, migraine, fatigue and distraction
- Leading to lack of concentration

#### **DECREASES PERFORMANCE AND PRODUCTIVITY**

# IT'S INVISIBLE. **BUT HERE'S HOW TO CHECK THE FLICKER**



Open your smartphone camera in slow-motion video mode.



Point the camera towards the lights & check for flicker.







Orient EyeLuv LED Lights come with the revolutionary FCT (Flicker-Control Technology), which reduces the harmful invisible flicker present in LED lighting sources that causes eye strain, eye fatigue and many other health complications, thus making them better and safer for overall eye health.

- Good for eye health
- (1) High lumen efficacy

Co Long life

Substantial energy saving

#### Low flicker toh No fikar











#### **POWERLINE FC**

Ultra bright LED retrofit tube light aluminium housing with powder coating and polycarbonate diffuser with high efficacy, suitable for replacement of existing T8 & T12 fluorescent tube light with G13 lamp holder and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Elegantly designed aluminium housing polycarbonate end caps are snap-fitted to the housing.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Directly installed in existing T8/T12 FTL conventional lighting fixtures; refer to the wiring diagram for proper installation.

#### **Control Gear**

Powered by an integral constant-current driver suitable for 120-280 V AC working range.

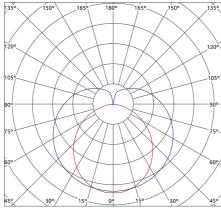
#### **Surge Protection**

Up to 2.5 KV

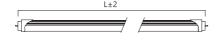
#### IP

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Front View





#### WIRING DIAGRAM



#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	ССТ	CRI	Rated	Power	Dimensions (in mm)	
	Wattage			Voltage	Factor	L	Ø
LTPS-18-C-FC	18W	6500K	≥80	240V AC	≥0.9	1212	32.5

#### CCT's are available in Cool white, Neutral white & Warm white.

# **TASKLINE FC**

Slim LED batten with polycarbonate round-shape diffuser, Polycarbonate housing is an ideal replacement solution for existing battens/fluorescent lamps with elegantly designed end caps with revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Made of ultra-slim co-extruded polycarbonate channel with the housing part in white finish & diffuser part in opal finish. White- finish ABS end caps with decorative circular polycarbonate cap snap-fitted on the end cap to enhance the aesthetic of the fixture.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Fix directly into the wall/ceiling by means of mounting SS clips provided with the fixture.

#### **Control Gear**

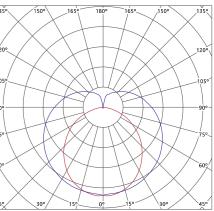
Integral electronic driver with Output Short-Circuit Protection/Open Circuit Protection, Surge Voltage Protection and other safety tests.

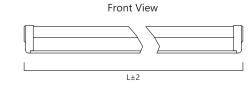
#### **Surge Protection**

Up to 2.5 KV

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#### Side View



#### RECOMMENDED USAGE

 $\bullet \ \mathsf{Commercial} \ \mathsf{Buildings} \ \bullet \ \mathsf{Residential} \ \mathsf{Buildings} \ \bullet \ \mathsf{Other} \ \mathsf{Indoor} \ \mathsf{Applications}$ 

#### **TECHNICAL DETAILS**

Model No.	System	сст	CRI	Rated Power		Dimensions (in mm)		
	Wattage			Voltage	Factor	L	W	Н
LBLN-18-C-FC	18W	6500K	≥80	240V AC	≥0.9	1183	21.5	36.5

CCT's are available in Cool white, Neutral white & Warm white.









# **VENUS PLUS FC**

Recess backlit downlighter round with heat dissipating fins for larger surface area finished in epoxy powder coated white to deliver high efficacy light output and uniformity utilising back lit technology and revolutionary flicker- control technology that reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed in round shape with excellent thermally managed aluminium pressure die cast housing.

High transmittance opal diffuser for glare free symmetric light distribution.

#### Mounting

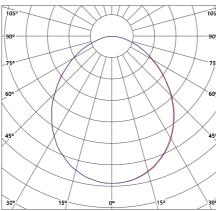
Fix into false ceiling by means of spring & clips provided.

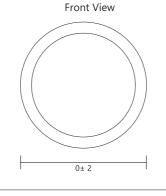
#### **Control Gear**

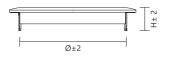
Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV









#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI Rated Power		Dime	ensions (in	mm)	
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	Ø	н
LDRVP-012-C-FC	12W	6500K	≥80	240V AC	≥0.9	170	155	30
LDRVP-015-C-FC	15W	6500K	≥80	240V AC	≥0.9	170	155	30
LDRVP-018-C-FC	18W	6500K	≥80	240V AC	≥0.9	225	215	30

CCT's are available in Cool white. Neutral white & Warm white.

# **MERCURY PLUS FC**

Recess backlit downlighter square with heat dissipating fins for larger surface area finished in epoxy powder coated white to deliver high efficacy light output and uniformity utilising back lit technology and revolutionary flickercontrol technology that reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed in square shape with excellent thermally managed aluminium pressure die cast housing.

#### **Optics**

High transmittance opal diffuser for glare free symmetric light distribution.

#### Mounting

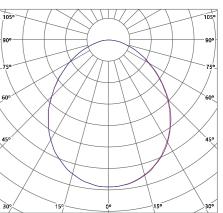
Fix into false ceiling by means of spring & clips provided.

#### **Control Gear**

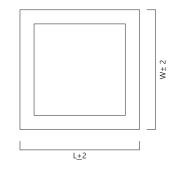
Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV

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Front View



Side View

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

**RECOMMENDED USAGE** 

Model No.	System	Rated	CRI	Rated	Power	Dimensions (in mm)		
iviodel No.	Wattage	ССТ	CKI	Voltage	Factor	LxW	Ø	Н
LDRMP-012-C-FC	12W	6500K	≥80	240V AC	≥0.9	160 x 160	145 x 145	30
LDRMP-015-C-FC	15W	6500K	≥80	240V AC	≥0.9	160 x 160	145 x 145	30
LDRMP-018-C-FC	18W	6500K	≥80	240V AC	≥0.9	210 x 210	195 x 195	30









# **VENUS RECESS ECO FC**

Recess-mounting low-height round LED downlighter housing and revolutionary Flicker-Control Technology that reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Designed in polycarbonate housing for durability and aesthetics.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Fix into false ceiling by means of provided spring & clips.

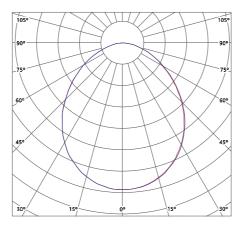
#### **Control Gear**

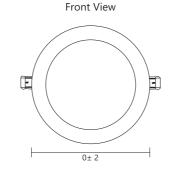
Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

#### **Surge Protection**

Up to 2.5 KV

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#### **RECOMMENDED USAGE**

- Banks & Back Offices Reception & Public Service Areas Waiting Lounges
- Meeting Rooms Corridors

#### **TECHNICAL DETAILS**

Model No.	System Wattage	сст	CRI	Rated Voltage	Power Factor	Dimer O	nsions (i Ø	n mm) H
LDRVE-015-C-FC	15W	6500K	≥80	240V AC	≥0.9	170	150	20

CCT's are available in Cool white, Neutral white & Warm white.

# **VENUS SURFACE ECO FC**

Surface-mounting low-height round LED downlighter housing and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed in polycarbonate housing for durability and aesthetics.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Surface mounting

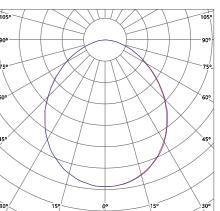
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

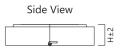
# **Surge Protection** Up to 2.5 KV

IP





Front View



#### **RECOMMENDED USAGE**

- Banks & Back Offices Reception & Public Service Areas Waiting Lounges
- Meeting Rooms Corridors

#### **TECHNICAL DETAILS**

Model No.	System	ССТ	CRI	Rated	Power	Dimensions (in mm	
Model No.	Wattage	CCI	CKI	Voltage	Factor	0	н
LDSVE-015-C-FC	15W	6500K	≥80	240V AC	≥0.9	170	30









# MERCURY RECESS ECO FC

Recess-mounting low-height square LED downlighter housing and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Designed in polycarbonate housing for durability and aesthetics.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Fix into false ceiling by means of provided spring & clips.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

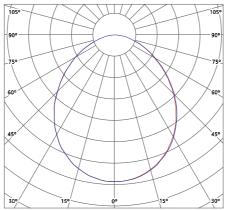
#### **Surge Protection**

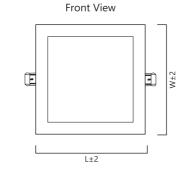
Up to 2.5 KV

#### IΡ

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#### **RECOMMENDED USAGE**

- Banks & Back Offices Reception & Public Service Areas Waiting Lounges
- Meeting Rooms Corridors

#### **TECHNICAL DETAILS**

Model No.	System	ССТ	CDI	Rated	Power	Dimensions (in mm)			
woder No.	Wattage	CCI	CRI Voltage	Factor	LxW	Ø	н		
LDRME-015-C-FC	15W	6500K	≥80	240V AC	≥0.9	170x170	150x150	20	

CCT's are available in Cool white, Neutral white & Warm white.

# MERCURY SURFACE ECO FC

Surface-mounting low-height square LED downlighter housing and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Designed in polycarbonate housing for durability and aesthetics.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Surface mounting.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

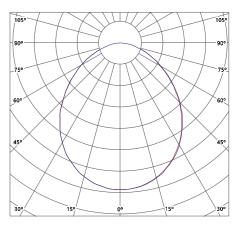
#### **Surge Protection**

Up to 2.5 KV

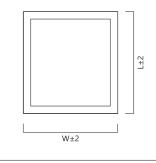
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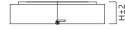
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Front View



Side View



#### **RECOMMENDED USAGE**

- Banks & Back Offices Reception & Public Service Areas Waiting Lounges
- Meeting Rooms Corridors

#### **TECHNICAL DETAILS**

Model No.	System Wattage	сст	CRI	Rated Voltage	Power Factor	Dimension LxW	ns (in mm) H
LDSME-015-C-FC	15W	6500K	≥80	240V AC	≥0.9	170x170	30









# AQUA RECESS 2X2 FC

Recess-mounting back-lit LED 2X2 tile in CRCA housing with full-opal diffuser suitable for Armstrong/Grid ceilings and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Recessed mounting.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

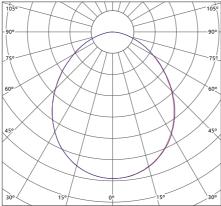
#### **Surge Protection**

Up to 2.5 KV

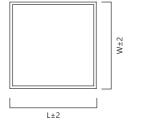
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Front View



#### Side View



#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Madal Na	System	ССТ	CDI	Rated	Power	Dimensions (in mm)		
Model No.	Wattage	cci	CRI	Voltage	Factor	LxW	Ø	Н
LTRAQ-36-C-FC	36W	6500K	≥80	240V AC	≥0.95	595x595	570x570	80

#### CCT's are available in Cool white, Neutral white & Warm white.

# **AQUA RECESS 1X4 FC**

Recess-mounting back-lit LED 1X4 tile in CRCA housing with full-opal diffuser suitable for Armstrong/Grid ceilings and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

CRCA white powder-coated after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Recessed mounting.

#### **Control Gear**

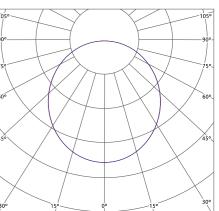
Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

#### **Surge Protection**

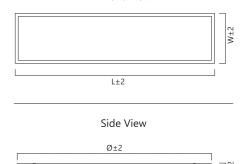
Up to 2.5 KV

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Front View



#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

	Model No.	System	ССТ	CRI	Rated	Power	ower Dimensions (in		n mm)	
Į	Model No.	Wattage	CCI	CKI	Voltage	Factor	LxW	Ø	н	
	LTRAQ-36-C-1X4-FC	36W	6500K	≥80	240V AC	≥0.95	1195x295	1170x270	80	









# **AQUA SURFACE** 2X2 FC

Surface-mounting back-lit LED 2x2 tile in CRCA housing with full-opal diffuser for soft & glare-free light distribution and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Provision for surface mounting.

#### **Control Gear**

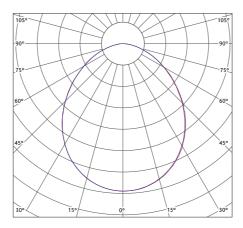
Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

#### **Surge Protection**

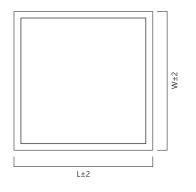
Up to 2.5 KV

#### IP

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#### Front View



Side View

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#### **RECOMMENDED USAGE**

 • Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System			Rated	Power	Dimensions (in mm)		
Model No.	Wattage			Factor	L	w	Н	
LTSAQ-36-C-FC	36W	6500K	≥80	240V AC	≥0.95	595	595	80

CCT's are available in Cool white, Neutral white & Warm white.

# **AQUA SURFACE 1X4 FC**

Surface-mounting back-lit LED 1x4 tile in CRCA housing with full-opal diffuser for soft & glare-free light distribution and revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Provision for surface mounting.

#### **Control Gear**

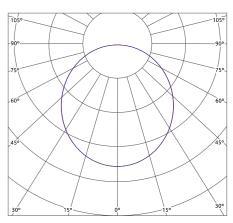
Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

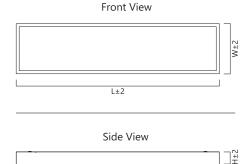
#### **Surge Protection**

Up to 2.5 KV

#### IP

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#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	ССТ	CRI	Rated Voltage	Power Factor	Dimen	isions (i	
	Wattage			voitage	Factor	L	W	Н
LTSAQ-36-C-1X4-FC	36W	6500K	≥80	240V AC	≥0.95	1195	295	80









#### **DLINE RECESS FC**

Seamless LED aluminium extruded recess-mounting luminaire for indoor architectural lighting solution and continuous mounting. It offers excellent energy saving and maintenance-free operation featured with best-in-class LED light sources with high luminous efficacy and highly translucent optical system to ensure maximum light output with excellent glare control and uniformity along with revolutionary Flicker-Control Technology to reduce harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Aluminum extruded housing in white powder-coated finish and plastic moulded end caps.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Suitable for Recess mounting through mounting clamps as per installation manual provided with the fixture. It can be installed in continuous mounting using joining kits.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

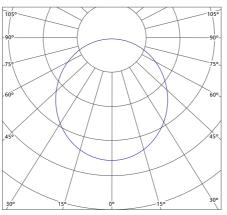
#### **Surge Protection**

Up to 2.5 KV

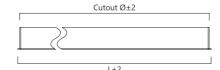
#### IP

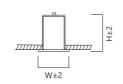
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#### Side View





#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	ССТ	CRI	Rated	Power	Dime	ensions (in	sions (in mm)	
woder No.	Wattage	CCI	CRI	Voltage	Factor	LxW	Ø	Н	
LCRDL-28-C-66-FC	28W	6500K	≥80	240V AC	≥0.95	1211x66	120x54	38	
LCRDL-36-C-90-FC	36W	6500K	≥80	240V AC	≥0.95	1212x90	1202x82	38	

CCT's are available in Cool white, Neutral white & Warm white

# **DLINE FC**

Seamless LED aluminium extruded suspended luminaire for indoor architectural lighting solution. Offers excellent energy saving and maintenance-free operation. Suitable for continous mounting linear lighting system. It enhances visual ambience with uniform illumination with its revolutionary Flicker-Control Technology reduces harmful invisible flicker present in LED lighting sources.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Aluminum extruded housing in white powder-coated finish and plastic moulded end caps.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Suitable for suspended/surface mounting with height adjustable suspension kit. It can be installed in continuous mounting using joining kits.

#### **Control Gear**

Powered by an independent electronic LED with Output Short-circuit protection, Surge protection & other reliability tests.

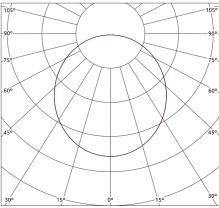
#### **Surge Protection**

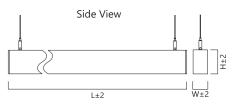
Up to 2.5 KV

#### ΙP

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#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

ı	Model No.	System	ССТ	CRI	Rated	Power	Dimer	isions (i	n mm)
	Model No.	Wattage	cci	CRI	Voltage	Factor	L	W	н
	LCPDL-28-C-54-FC	28W	6500K	≥80	240V AC	≥0.95	1200	54	73
	LCPDL-36-C-75-FC	36W	6500K	≥80	240V AC	≥0.95	1200	75	85









(Single-Side Connection)

Ultra-bright polycarbonate LED retrofit tube light with high efficacy. Suitable for the replacement of existing T8 & T12 fluorescent tube light with G13 lamp holder.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Elegantly designed polycarbonate housing with opal finish to provide glare-free uniform light distribution. High-quality polycarbonate end caps are snap-fitted to the housing.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Directly installed in existing T8/T12 FTL conventional lighting fixtures; refer to the wiring diagram for proper installation.

#### **Control Gear**

Powered by an integral constant-current driver suitable for 120-280 V AC working range.

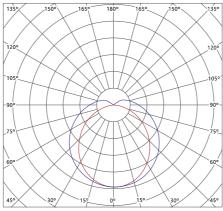
#### **Surge Protection**

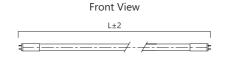
Up to 2.5 KV



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Side View





#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CDI	Rated	Power	Dimension	s (in mm)
iviodei ivo.	Wattage	ССТ	CRI	Voltage	Factor	L	Ø
LTXL-09-C	9W	6500K	≥80	240V AC	≥0.9	602	28
LTXL-18-C	18W	6500K	≥80	240V AC	≥0.9	1212	28
LTXL-20-C	20W	6500K	≥80	240V AC	≥0.9	1212	28

CCT's are available in Cool white, Neutral white & Warm white.

# **XLINE XT**

(Double-Side Connection)

Ultra-bright polycarbonate LED retrofit tube light with high efficacy of 120 lm/W. Suitable for the replacement of existing T8 & T12 fluorescent tube light with G13 lamp holder.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Elegantly designed polycarbonate housing in opal finish to provide glare-free uniform light distribution. High-quality polycarbonate end caps are snap-fitted to the housing.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

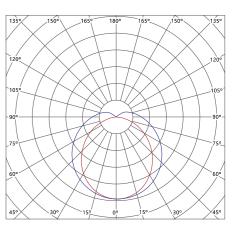
Directly installed in existing T8/T12 FTL conventional lighting fixtures; refer to the wiring diagram for proper installation.

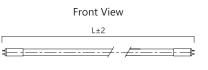
#### **Control Gear**

Powered by an integral constant-current driver suitable for 120-280 V AC working range.

# **Surge Protection** Up to 2.5 KV

# HIGH LUMEN OUTPUT





#### Side View





#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimension	ns (in mm)
Widdel No.	Wattage	ССТ	CNI	Voltage	Factor	L	Ø
LTXL-13-C-XT	13W	6500K	≥80	240V AC	≥0.9	1212	28
LTXL-18-C-XT-D	18W	6500K	≥80	240V AC	≥0.9	1212	28





# **POWERLINE SP**

(Double-Side Connection)

Ultrabright LED retrofit tube light with aluminium housing and polycarbonate diffuser with high efficiency, suitable for replacement of existing T8 & T12 flouroscent tube light with G13 lamp holder.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Elegantly designed aluminium heat sink for efficient heat dissipation.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Directly installed in existing T8/T12 FTL conventional lighting fixtures; refer to the wiring diagram for proper installation.

#### **Control Gear**

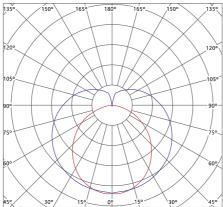
Powered by an integral constant-current driver suitable for 120-280 V AC working range.

#### **Surge Protection**

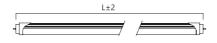
Up to 2.5 KV







Front View







#### WIRING DIAGRAM



#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CDI	Rated	Power	Dimensio	ns (in mm)
Model No.	Wattage	ССТ	CRI	Voltage	Factor	L	Ø
LTPS-18-C	18W	6500K	≥80	240V AC	≥0.9	1212	32.5
LTPS-20-C	20W	6500K	≥80	240V AC	≥0.9	1212	32.5

CCT's are available in Cool white, Neutral white & Warm white.

# **POWERLINE SPXT**

(Double-Side Connection)

Ultra-bright LED retrofit tube light with aluminium housing and polycarbonate diffuser with very high efficacy of 120lm/W; suitable for replacement of existing T8 & T12 fluorescent tube light with G13 lamp holder.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Directly installed in existing T8/T12 FTL conventional lighting fixtures; refer to the wiring diagram for proper installation.

Powered by an integral constant current driver suitable for 120-280 V AC

Up to 2.5 KV

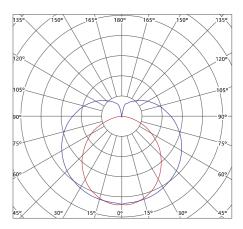
#### Elegantly designed aluminium heat sink for efficient heat dissipation.

#### **Control Gear**

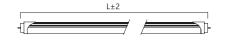
working range.

#### **Surge Protection**

# HIGH LUMEN OUTPUT



Front View



#### Side View



#### WIRING DIAGRAM



**RECOMMENDED USAGE** 

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CDI	CRI Rated I		Dimensio	ns (in mm)
iviodei ivo.	Wattage	ССТ	CRI	Voltage	Factor	L	Ø
LTPS-18-C-XT	18W	6500K	≥80	240V AC	≥0.9	1212	32.5



# **SLEEKLINE**

(Double-Side Connection)

Ultra-bright LED retrofit tube light with aluminium housing and polycarbonate diffuser; suitable for replacement of existing T5 fluorescent tube light with G5 lamp holder.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Elegantly designed aluminium heat sink for efficient heat dissipation. High quality polycarbonate end caps are snap-fitted to the housing.

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Directly installed in existing T5 FTL conventional lighting fixtures; refer to the wiring diagram for proper installation.

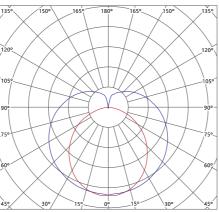
#### **Control Gear**

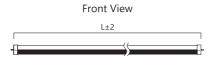
Powered by constant-current driver suitable for 120-280 V AC working range.

# **Surge Protection** Up to 2.5 KV

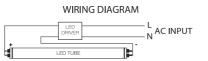
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#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### TECHNICAL DETAILS

Model No.	System Wattage	Rated CCT	CRI	Rated Voltage	Power Factor	Dimensior L	ns (in mm) Ø
LTSL-018-C	18W	6500K	≥80	240V AC	≥0.9	1164	16.5







# **TASKLINE**

Slim LED batten with polycarbonate housing and diffuser is an ideal replacement solution for existing battens/fluorescent lamps with elegantly designed end caps.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Made of ultra-slim co-extruded polycarbonate channel with the housing part in white finish & diffuser part in opal finish. White-finish ABS end caps with decorative circular polycarbonate cap snap-fitted on the end cap to enhance the aesthetic of the fixture. These end caps are snapfitted to the fixture.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Fix directly into the wall/ceiling by means of mounting SS clips provided with the fixture.

#### **Control Gear**

Integral electronic driver with Output Short-Circuit Protection/Open Circuit Protection, Surge Voltage Protection and other safety tests.

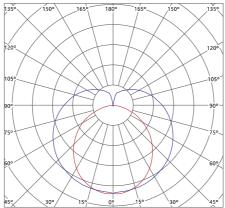
#### **Surge Protection**

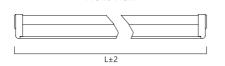
Up to 2.5 KV



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Front View



# **TASKLINE SQUARE**

Slim LED batten with polycarbonate housing and diffuser is an ideal replacement solution for existing battens/fluorescent lamps with elegantly designed end caps.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Made of ultra-slim co-extruded polycarbonate channel with housing part in white finish & diffuser part in opal finish. White-finish ABS end caps with decorative square polycarbonate cap are snap-fitted on the end cap to enhance the aesthetic of the fixture. These end caps are snapfitted to the fixture.

#### **Optics**

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Fix directly into the wall/ceiling by means of mounting SS clips provided with the fixture.

#### **Control Gear**

Integral electronic driver with Output Short Circuit Protection/Open Circuit Protection, Surge Voltage Protection and other safety tests.

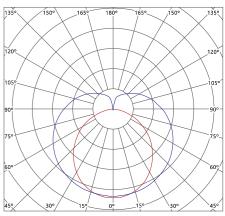
#### **Surge Protection**

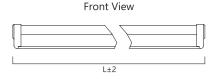
Up to 2.5 KV

ΙP

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#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### TECHNICAL DETAILS

Model No.	System	Rated	CRI	Rated	Power	Dime	ensions (in	mm)
Model No.	Wattage	CCT	CKI	Voltage	Factor	L	W	Н
LBLN-10-C-SQ	10W	6500K	≥80	240V AC	≥0.9	591	21.5	37
LBLN-18-C-SQ	18W	6500K	≥80	240V AC	≥0.9	1184	21.5	37
LBLN-20-C-SQ	20W	6500K	≥80	240V AC	≥0.9	1184	21.5	37
LBLN-22-C-SQ	22W	6500K	≥80	240V AC	≥0.9	1184	21.5	37

CCT's are available in Cool white, Neutral white & Warm white

#### RECOMMENDED USAGE

• Commercial Buildings • Residential Buildings • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI		Power	Dime	ensions (in	mm)
wiodei ivo.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LBLN-18-C	18W	6500K	≥80	240V AC	≥0.9	1135	21.5	36.5
LBLN-20-C	20W	6500K	≥80	240V AC	≥0.9	1135	21.5	36.5







# **TASKLINE AL**

Slim LED batten with aluminium housing and polycarbonate diffuser with elegantly designed End caps. It is an ideal replacement solution for existing battens fluorescent lamps.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Epoxy powder-coated white extruded aluminium channel housing for efficient heat dissipation. Elegantly designed white-coloured ABS end caps enhance the aesthetics of the fixture.

Polycarbonate diffuser to provide glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Fix directly into the wall/ceiling by means of mounting SS clips provided with the fixture.

#### **Control Gear**

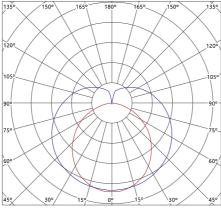
Powered by an integral electronic driver with Output Short-Circuit Protection, Surge Protection & other safety tests.

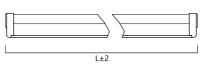
#### **Surge Protection**

Up to 2.5 KV



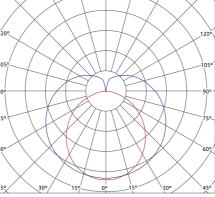






Front View







#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications • Industrial Buildings

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CDI	Rated	Power	Dime	ensions (in	mm)
wodel No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LBLN-18-C-AL	18W	6500K	≥80	240V AC	≥0.9	1183	21.5	36.5
LBLN-20-C-AL	20W	6500K	≥80	240V AC	≥0.9	1183	21.5	36.5
LBLN-22-C-AL	22W	6500K	≥80	240V AC	≥0.9	1183	21.5	36.5
LBLN-36-C-AL	36W	6500K	≥80	240V AC	≥0.9	1188	27.0	35.0

CCT's are available in Cool white, Neutral white & Warm white.

# **LED BATTEN-**1/2X18 LED

Universal battens with powder-coated CRCA housing complete with prewired Control Gear. Suitable for T5 and T8/T12 LED tubes.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Housing & cover made up of CRCA sheet steel. Cover is fixed to the housing by means of bolts with engineering plastic head. Epoxy powder-coated white after phosphochromate treatment. Push-fit type white polycarbonate housing and ABS rotor with corrosion-resistant brass contacts.

#### **Optics**

White powder-coated CRCA sheet.

#### **Mounting**

On ceiling/wall with screws.

#### **Control Gear**

Complete internal wiring suitable for retrofit LED tubelight with single/double side connections.

#### **Surge Protection**

Up to 2.5 KV



Side View





#### **RECOMMENDED USAGE**

• Commercial Buildings • Residential Buildings • Other Indoor Applications • Industrial Buildings

#### TECHNICAL DETAILS

Model No.	Suitable For*	Dimensi	ons (in mm)
Model No.	Suitable For	L	W
LIBT-118-SS	1X18/20 W T8 LED TUBE	1230	45
LIBT-218-SS	2X18/20 W T8 LED TUBE	1230	100
LIBT-118-DS	1X18/20 W T8 LED TUBE	1230	45
LIBT-218-DS	2X18/20 W T8 LED TUBE	1230	100
LIBT-118-T5	1X18 W T5 LED TUBE	1230	45
LIBT-218-T5	2X18 W T5 LED TUBE	1230	100

<sup>\*</sup>Tubes to be ordered separatly





# **VENUS**

Recess-mounting round LED downlighter designed with back-lit technology.

#### **PRODUCT SPECIFICATIONS**

**Housing**Designed with excellent thermally managed aluminium pressure die-cast housing with heat-dissipating fins for larger surface area, finished in epoxy powder-coated white.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

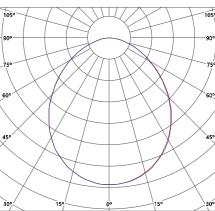
Fix into false ceiling by means of provided spring & clips.

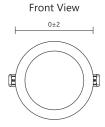
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

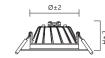
# **Surge Protection** Up to 2.5 KV







Side View



#### **RECOMMENDED USAGE**

- Banks & Back Offices Reception & Public Service Areas Waiting Lounges
- Meeting Rooms Corridors

#### TECHNICAL DETAILS

Model No.	System	Rated	CRI	Rated	Power	Dimensions (in		n mm)	
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	Ø	Н	
LDRVS-010-C	10W	6500K	≥80	240V AC	≥0.9	170	145	50	
LDRVS-015-C	15W	6500K	≥80	240V AC	≥0.9	170	145	50	
LDRVS-020-C	20W	6500K	≥80	240V AC	≥0.9	170	145	50	
LDRVS-022-C	22W	6500K	≥80	240V AC	≥0.9	170	145	50	
LDRVS-024-C	24W	6500K	≥80	240V AC	≥0.9	170	145	50	





# **VENUS PLUS**

Recess backlit downlighter round with heat dissipating fins for larger surface area finished in epoxy powder coated white to deliver high efficacy light output and uniformity utilising back lit technology.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Designed in round shape with excellent thermally managed aluminium pressure die cast housing.

#### **Optics**

High transmittance opal diffuser for glare free symmetric light distribution.

#### **Mounting**

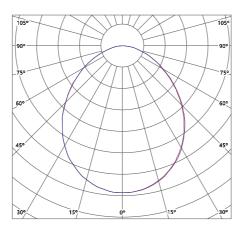
Fix into false ceiling by means of spring & clips provided.

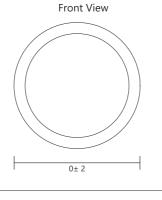
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV

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#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimensions (in mm)		
iviodei ivo.	Wattage	CCT	Voltage	Factor	0	Ø	Н	
LDRVP-06-C	6W	6500K	≥80	240V AC	≥0.9	110	85	30
LDRVP-012-C	12W	6500K	≥80	240V AC	≥0.9	170	155	30
LDRVP-015-C	15W	6500K	≥80	240V AC	≥0.9	170	155	30
LDRVP-018-C	18W	6500K	≥80	240V AC	≥0.9	225	215	30

CCT's are available in Cool white. Neutral white & Warm white

# **MERCURY PLUS**

Recess backlit downlighter square with heat dissipating fins for larger surface area finished in epoxy powder coated white to deliver high efficacy light output and uniformity utilising back lit technology.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed in square shape with excellent thermally managed aluminium pressure die cast housing.

#### **Optics**

High transmittance opal diffuser for glare free symmetric light distribution.

#### Mounting

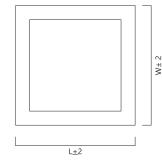
Fix into false ceiling by means of spring & clips provided.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV





#### Side View

#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dime	ensions (in r	nm)
wodel No.	Wattage	ССТ	CKI	Voltage	Factor	LxW	Ø	Н
LDRMP-06-C	6W	6500K	≥80	240V AC	≥0.9	95 x 95	85 x 85	30
LDRMP-012-C	12W	6500K	≥80	240V AC	≥0.9	160 x 160	145 x 145	30
LDRMP-015-C	15W	6500K	≥80	240V AC	≥0.9	160 x 160	145 x 145	30
LDRMP-018-C	18W	6500K	≥80	240V AC	≥0.9	210 x 210	195 x 195	30







# **EDGE RECESS ROUND PANEL**

Ultraslim recess-mounting round LED downlighter designed with edge-lit technology with heat-dissipating fins for larger surface area. finished in epoxy powder-coated white to deliver high efficacy light output and uniformity, utilising edge-lit technology.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed with excellent thermally managed aluminium pressure die-cast housing.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

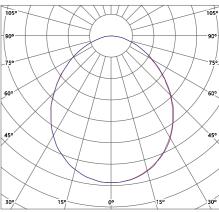
Fix into false ceiling by means of provided spring & clips.

#### **Control Gear**

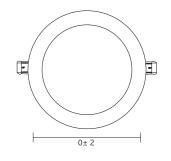
Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests

# Surge Protection Up to 2.5 KV





Front View





#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### TECHNICAL DETAILS

Model No.	System	Rated	CRI	Rated	Power	Dime	Dimensions (in n	
Model No.	Wattage	CCT	CRI	Voltage	Factor	0	Ø	Н
LDRER-06-C	6W	6500K	≥80	240V AC	≥0.9	120	105	22
LDRER-12-C	12W	6500K	≥80	240V AC	≥0.9	170	160	22
LDRER-15-C	15W	6500K	≥80	240V AC	≥0.9	200	180	22
LDRER-18-C	18W	6500K	≥80	240V AC	≥0.9	225	205	22





# EDGE RECESS SQUARE PANEL

Ultraslim recess-mounting square LED downlighter designed with edge-lit technology.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed with excellent thermally managed aluminium pressure die-cast housing with heat-dissipating fins for larger surface area, finished in epoxy powder-coated white to deliver high efficacy light output and uniformity, utilising edge-lit technology.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Fix into false ceiling by means of provided spring and clips.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests

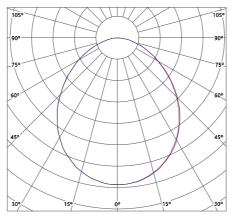
#### **Surge Protection**

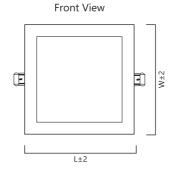
Up to 2.5 KV

#### IΡ

20







#### Side View



#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dime	ensions (in I	mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	LxW	Ø	Н
LDRES-06-C	6W	6500K	≥80	240V AC	≥0.9	120 x 120	105 x 105	13
LDRES-12-C	12W	6500K	≥80	240V AC	≥0.9	170 x 170	160 x 160	13
LDRES-18-C	18W	6500K	≥80	240V AC	≥0.9	225 x 225	205 x 205	22
LDRES-24-C	24W	6500K	≥80	240V AC	≥0.9	300 x 300	280 x 280	22

CCT's are available in Cool white, Neutral white & Warm white.

# **EDGE SURFACE ROUND PANEL**

Ultraslim surface-mounting round LED downlighter designed with edge-lit technology.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed with excellent thermally managed aluminium pressure die-cast housing with heat-dissipating fins for larger surface area, finished in epoxy powder-coated white to deliver high efticacy Iight output and uniformity, utilising edge-lit technolog.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Surface mounting

#### **Control Gear**

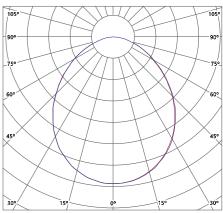
Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

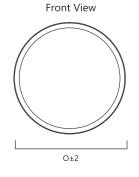
#### **Surge Protection**

Up to 2.5 KV

IP







Side View

#### Side view

#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CDI	CRI Rated Power Dimension		Dimension	ns (in mm)
Model No.	Wattage	CCT	CKI	Voltage	Factor	0	н
LDSER-06-C	6W	6500K	≥80	240V AC	≥0.9	120	35
LDSER-12-C	12W	6500K	≥80	240V AC	≥0.9	170	35
LDSER-18-C	18W	6500K	≥80	240V AC	≥0.9	225	35







# **EDGE SURFACE SQUARE PANEL**

Ultraslim surface-mounting square LED downlighter designed with edge-lit technology.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Designed with excellent thermally managed aluminium pressure die-cast housing with heat dissipating fins for larger surface area, finished in epoxy powder-coated white to deliver high efficacy light output and uniformity, utilising edge-lit technology.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

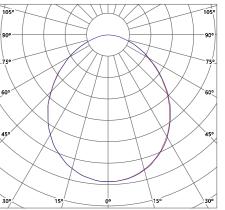
Surface-mounting.

#### **Control Gear**

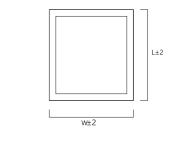
Powered by an independent electronic LED driver with Output Short-Circuit Crotection, Surge Protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV





Front View





#### **RECOMMENDED USAGE**

• Retail Stores • Restaurants • Hotel Lobbies • Waiting Areas • Corporate Offices

#### TECHNICAL DETAILS

Model No.	System	Rated	CRI	Rated	Power	Dimensions	(in mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	LxW	Н
LDSES-06-C	6W	6500K	≥80	240V AC	≥0.9	120 x 120	35
LDSES-12-C	12W	6500K	≥80	240V AC	≥0.9	170 x 170	35
LDSES-18-C	18W	6500K	≥80	240V AC	≥0.9	225 x 225	35





# **AQUA RECESS 2X2**

Recess-mounting back-lit LED 2X2 tile in CRCA housing with full opal diffuser; suitable for Armstrong/Grid ceilings.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

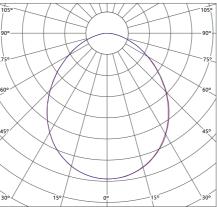
Recess-mounting.

#### **Control Gear**

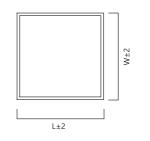
Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

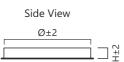
# **Surge Protection** Up to 2.5 KV





Front View





#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dime	Dimensions (in mm	
Model No.	Wattage	ССТ	CRI	Voltage   Factor	LxW	Ø	Н	
LTRAQ-24-C	24W	6500K	≥80	240V AC	≥0.95	595x595	570x570	80
LTRAQ-30-C	30W	6500K	≥80	240V AC	≥0.95	595x595	580x580	80
LTRAQ-36-C	36W	6500K	≥80	240V AC	≥0.95	595x595	580x580	80
LTRAQ-42-C	42W	6500K	≥80	240V AC	≥0.95	595x595	580x580	80

CCT's are available in Cool white, Neutral white & Warm white.

# **AQUA RECESS 1X4**

Recess-mounting back-lit LED 1x4 tile in CRCA housing with full opal diffuser; suitable for Armstrong/Grid ceilings.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Recess-mounting.

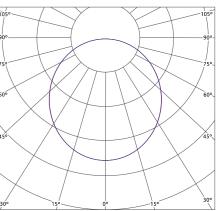
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

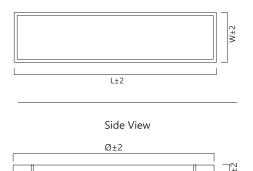
#### **Surge Protection**

Up to 2.5 KV





Front View



#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	System Rated		Rated	Power	Dimensions (in mm)		
Model No.	Wattage	ССТ	CRI	Voltage	Factor	LxW	Ø	Н
LTRAQ-36-C-1X4	36W	6500K	≥80	240V AC	≥0.95	1195x295	1170x270	80







#### **HYDRA 2X2**

Recess-mounting ultraslim LED 2x2 edge-lit tile in aluminium extruded housing with full opal diffuser; suitable for perfect lighting conditions for various visual tasks in offices and general areas.

#### **PRODUCT SPECIFICATIONS**

#### Housing

White powder-coated aluminium extruded frame for better thermal management with a CRCA sheet used as a back cover and fixed with an aluminium extrusion through SS screws.

#### **Optics**

Micro-structured wave guide (LGP), opal diffuser for glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Suitable for Armstrong/Grid ceiling.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge rotection & other reliability tests.

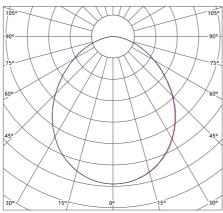
#### **Surge Protection**

Up to 2.5 KV

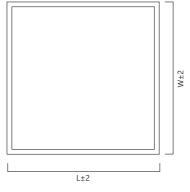
#### IΡ

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Front View



Side View

#### **RECOMMENDED USAGE**

 $\bullet \ \, \text{Offices} \bullet \mathsf{BPOs} \bullet \ \, \mathsf{Hospitals} \bullet \mathsf{Banks} \bullet \mathsf{Meeting} \ \, \mathsf{Rooms} \bullet \mathsf{Other} \, \mathsf{Indoor} \, \mathsf{Applications}$ 

#### **TECHNICAL DETAILS**

Model No.	System Wattage	Rated CCT	CRI	Rated Voltage	Power Factor	Dimer L	nsions (ii W	n mm) H
LTRHD-36-C	36W	6500K	≥80	240V AC	≥0.95	595	595	14

CCT's are available in Cool white, Neutral white & Warm white.

# **HYDRA 1X4**

Recess-mounting ultraslim LED 1x4 edge-lit tile in aluminium extruded housing with full opal diffuser; suitable for perfect lighting conditions for various visual tasks in offices and general areas.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

White powder-coated aluminium extruded frame for better thermal management with a CRCA sheet used as a back cover and fixed with an aluminium extrusion through SS screws.

#### **Optics**

Micro-structured wave guide (LGP), opal diffuser for glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Suitable for Armstrong/Grid ceiling.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

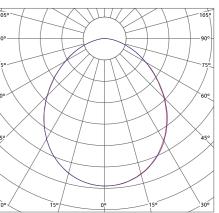
#### **Surge Protection**

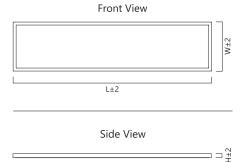
Up to 2.5 KV

#### IP

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#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	No System Rated	Rated	CRI	Rated	Power	Dimensions (in mm)		
Model No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LTRHD-36-C-1X4	36W	6500K	≥80	240V AC	≥0.95	1195	295	14





# **HYDRA 1X1**

Recess-mounting ultraslim LED 1x1 edge-lit tile in aluminium extruded housing with full opal diffuser; suitable for perfect lighting conditions for various visual tasks in offices and general areas.

#### **PRODUCT SPECIFICATIONS**

#### Housing

White powder-coated aluminium extruded frame for better thermal management with a CRCA sheet used as a back cover and fixed with an aluminium extrusion through SS screws.

#### **Optics**

Micro-structured wave guide (LGP), opal diffuser for glare-free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

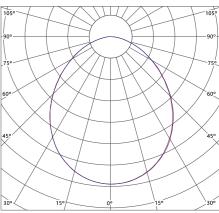
Suitable for Armstrong ceiling.

#### **Control Gear**

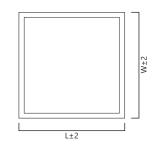
Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV





Front View



Side View

#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### TECHNICAL DETAILS

Model No.	System Rated		CRI	Rated	Power	Dimensions (in mm)		
Model No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LTRHD-24-C	24W	6500K	≥80	240V AC	≥0.95	295	295	14





# **AQUA SURFACE 2X2**

Surface-mounting back-lit LED 2x2 tile in CRCA housing with full opal diffuser for soft & glare-free light distribution.

#### **PRODUCT SPECIFICATIONS**

**Housing**CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

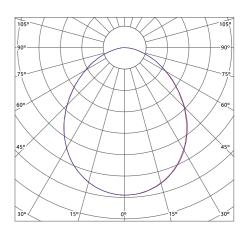
Surface-mounting.

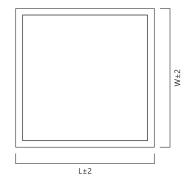
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

# **Surge Protection** Up to 2.5 KV

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Side View

#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### TECHNICAL DETAILS

Model No.	System Rate		CDI	Rated	Power	Dimensions (in mm)		
Wodel No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LTSAQ-36-C	36W	6500K	≥80	240V AC	≥0.95	595	595	80





# **AQUA SURFACE 1X4**

Surface-mounting back-lit LED 1x4 tile in CRCA housing with full opal diffuser for soft & glare-free light distribution.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

CRCA powder-coated white after phosphochromate treatment.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Surface-mounting.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

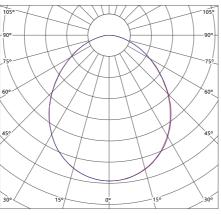
#### **Surge Protection**

Up to 2.5 KV

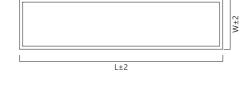
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#### Front View



Side View

# **DLINE RECESS**

Seamless aluminium extruded recess-mounting luminaire for indoor architectural lighting solution for continuous mounting. Offers excellent energy-saving and maintenance-free operation featured with best-in-class LED light sources having high luminous efficacy and highly translucent optical system to ensure maximum light output with excellent glare control and uniformity.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Aluminum extruded housing in white powder-coated finish and plastic moulded end caps.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Suitable for Recess-mounting. Can be installed in continuous mounting using joining kits.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

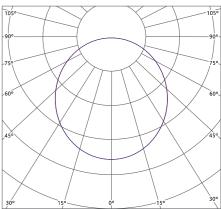
#### **Surge Protection**

Up to 2.5 K

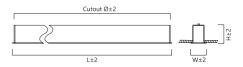
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Side Vie



#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	System Rated		Rated	Power	Dimensions (in mm)		
Wodel No.	Wattage	ССТ	CKI	CRI Voltage	Factor	LxW	Ø	Н
LCRDL-28-C-66	28W	6500K	≥80	240V AC	≥0.95	1211x66	1202x54	38
LCRDL-56-C-66	56W	6500K	≥80	240V AC	≥0.95	2411x66	2402x54	38
LCRDL-36-C-90	36W	6500K	≥80	240V AC	≥0.95	1211x90	1202x82	38
LCRDL-72-C-90	72W	6500K	≥80	240V AC	≥0.95	2411x90	2402x82	38

CCT's are available in Cool white, Neutral white & Warm white

#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimer	sions (ir	n mm)
Model No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	н
LTSAQ-36-C-1X4	36W	6500K	≥80	240V AC	≥0.95	1195	295	80





# **DLINE TZ**

High-efficiency energy-saving LED recess-mounting luminaire with premium powder-coating and robust electronics makes it the ideal choice for office lighting for continuous mounting. Featured with the best-in-class LED light sources having high luminous efficacy and highly translucent optical system to ensure maximum light output with excellent glare control and uniformity. Suitable for architectural lighting for TechZone ceiling.

#### PRODUCT SPECIFICATIONS

#### **Housing**

Housing in aluminium extrusion in white powder- coated finish and metal end caps.

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Suitable for recess mounting in TechZone ceiling.

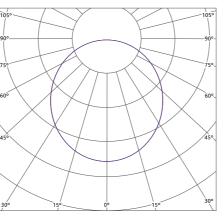
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

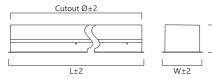
# **Surge Protection** Up to 2.5 KV

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#### Side View



#### **RECOMMENDED USAGE**

• Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### TECHNICAL DETAILS

Model No.	System	Rated	CRI	Rated Voltage	Rated	Rated	Rated	Power	Dime	ensions (in	mm)
wiodei ivo.	Wattage	age CCT CRI	CKI		Factor	LxW	Ø	Н			
LCRDL-28-C-TZ	28W	6500K	≥80	240V AC	≥0.95	1200 x 135	1185 x 115	90			
LCRDL-56-C-TZ	56W	6500K	≥80	240V AC	≥0.95	2400 x 135	2385 x 115	90			







#### **DLINE**

Seamless LED aluminium extruded suspended luminaire for indoor architectural lighting solution. Offers excellent energy- saving and maintenance-free operation, suitable for continuous mounting linear lighting system. It enhances visual ambience with uniform illumination.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

AluminIum extruded housing in white powder-coated finish and plastic-moulded end caps.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### **Mounting**

Suitable for suspended/surface mounting with height-adjustable suspension kit. Can be installed in continuous mounting using joining kits.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

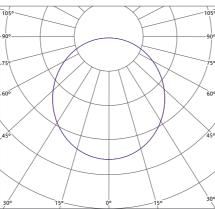
#### **Surge Protection**

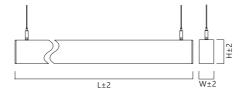
Up to 2.5 KV



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Side View

# **UDLINE**

Suspended, seamless LED up-downlight luminaire in extruded aluminium for indoor architectural lighting solution, offering excellent energy-saving and maintenance-free operation. Luminaires can be connected end-to-end to make a continuous lighting system of any length to uplift the visual ambience.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Aluminium extruded housing in white powder-coated finish and plastic-moulded end caps.

#### **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Suitable for suspended/surface mounting with height-adjustable suspension kit. Can be installed in continuous mounting using joining kits.

#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-Circuit Protection, Surge Protection & other reliability tests.

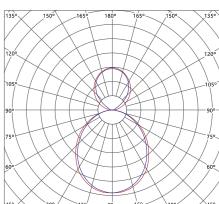
#### **Surge Protection**

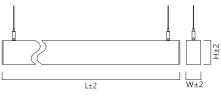
Up to 2.5 KV

ΙP

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Side View

#### RECOMMENDED USAGE

•Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CDI	Rated	Power	Dime	ensions (in	mm)
Model No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LCPUD-28-C-1-EI	8W+20W	6500K	≥80	240V AC	≥0.95	1200	54	73
LCPUD-56-C-2-EI	16W+40W	6500K	≥80	240V AC	≥0.95	2400	54	73

CCT's are available in Cool white, Neutral white & Warm white.

#### **RECOMMENDED USAGE**

•Offices • BPOs • Hospitals • Banks • Meeting Rooms • Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.		Rated CRI	Rated	Power	Dimensions (in mm)			
wiodei No.	Wattage	CCT	CRI	Voltage	Factor	L	W	Н
LCPDL-14-C-54	14W	6500K	≥80	240V AC	≥0.95	600	54	73
LCPDL-28-C-54	28W	6500K	≥80	240V AC	≥0.95	1200	54	73
LCPDL-56-C-54	56W	6500K	≥80	240V AC	≥0.95	2400	54	73
LCPDL-18-C-75	18W	6500K	≥80	240V AC	≥0.95	600	75	85
LCPDL-36-C-75	36W	6500K	≥80	240V AC	≥0.95	1200	75	85
LCPDL-72-C-75	72W	6500K	≥80	240V AC	≥0.95	2400	75	85

CCT's are available in Cool white, Neutral white & Warm white.

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# **NUCLEUS RECESS**

Recess-mounted adjustable LED downlights made of extruded aluminium housing and high-power COB LED as a light source with clear diffuser and a separate electronic driver.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Extruded aluminium heat sink for efficient heat dissipation with clear

#### **Optics**

High-efficiency and long-life COB LED with high lumen efficacy. High-purity anodised glossy stepped-type reflector to enhance the lumen output of the fixture. Available in narrow and wide beam angles.

#### Mounting

Fix into false ceiling with spring clamps provided with the fixture.

#### **Control Gear**

Powered by an independent isolated electronic driver in ABS housing with Output Short-Circuit Protection, Over Voltage Protection, Surge Voltage Protection and other safety tests.

#### **Surge Protection**

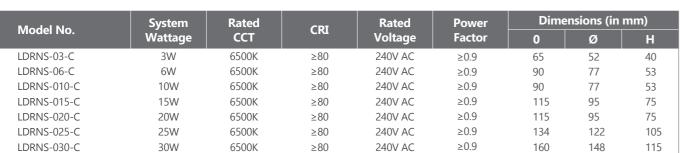
Up to 2.5 KV

20

#### **RECOMMENDED USAGE**

- Corporate Offices Restaurants Hotel Waiting Areas Modern Gym & Spa
- Corporate Offices

#### **TECHNICAL DETAILS**



CCT's are available in Cool white, Neutral white & Warm white.

# **NUCLEUS DEEP RECESS**

Recess-mounted LED downlights made of die-cast aluminium housing and high-power LED as a light source with clear diffuser and a separate electronic driver.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Pressure die-cast aluminium heat sink for efficient heat dissipation with

High-efficiency and long-life deep recess COB LED with high lumen efficacy. High-purity anodised glossy stepped type reflector to enhance the lumen output of the fixture.

protection, Surge protection & other reliability tests.

Up to 2.5 KV

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#### Mounting

Fix into false ceiling by means of spring & clips provided

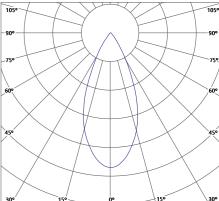
#### **Control Gear**

Powered by an independent electronic LED driver with Output Short-circuit

#### **Surge Protection**

Front View

Side View



Front View

Side View





#### **RECOMMENDED USAGE**

• Retail Stores • Resturents • Hotel Lobbies • Waiting Areas • Corporate Offices

#### **TECHNICAL DETAILS**

Model No.	System	Rated CRI Ra		Rated	Power	Dimensions (in mm)		
wodei No.	Wattage	CCT	CKI	Voltage	Factor	0	Ø	Н
LDRND-06-C	6W	6500K	≥80	240V AC	≥0.9	55	45	92
LDRND-010-C	10W	6500K	≥80	240V AC	≥0.9	76	70	99
LDRND-012-C	12W	6500K	≥80	240V AC	≥0.9	76	70	99
LDRND-015-C	15W	6500K	≥80	240V AC	≥0.9	92	85	117
LDRND-020-C	20W	6500K	≥80	240V AC	≥0.9	92	85	117
LDRND-025-C	25W	6500K	≥80	240V AC	≥0.9	128	122	128





# **NUCLEUS SURFACE**

Cylindrical surface-mounting round LED downlighter designed with excellent thermally managed aluminium pressure die-cast housing finished in epoxy powder-coated white to deliver high efficacy light output and uniformity, utilising COB technology.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Pressure die-cast aluminium heat sink for efficient heat dissipation with

#### **Optics**

High-efficiency and long-life COB LED with high lumen efficacy. High-purity anodised glossy stepped type reflector to enhance the lumen output of the fixture.

#### **Mounting**

Surface-mounted.

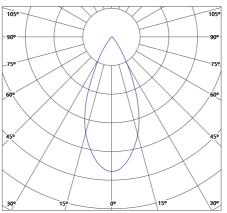
#### **Control Gear**

Powered by an independent electronic driver with Output Short Circuit protection, Over Voltage protection, Surge Voltage protection and other safety tests.

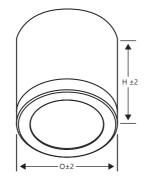
# **Surge Protection** Up to 2.5 KV

20





Front View



#### **RECOMMENDED USAGE**

• Corporate Offices • Restaurants • Hotels • Waiting Areas • Modern Gym & Spa

#### **TECHNICAL DETAILS**

Model No.	sl No.		Rated CRI		Power	Dimensions (in mm)	
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	Н
LDSNS-010-C	10W	6500K	≥80	240V AC	≥0.9	70	125
LDSNS-015-C	15W	6500K	≥80	240V AC	≥0.9	100	148
LDRNS-020-C	20W	6500K	≥80	240V AC	≥0.9	100	148

CCT's are available in Cool white, Neutral white & Warm white.

# **WALL WASHER**

LED recessed adjustable downlight made up of high-grade aluminium die-cast housing with spectacular reflector with 36° beam angle. It is featured with advanced COB LED with and adjustable focus.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Powder coated white pressure die-cast aluminium housing for efficient thermal management with angle adjustment.

High purity aluminium sputtered stepped type reflector with clear diffuser, 36° beam angle available.

#### Mounting

Fix into false ceiling by means of spring & clips provided.

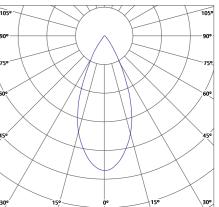
#### **Control Gear**

Powered by a separate electronic driver with Output Short Circuit Protection, Surge Voltage Protection and other reliability tests.

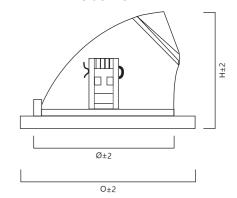
# **Surge Protection** Up to 2.5 KV

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Side View



#### **RECOMMENDED USAGE**

- Showrooms Reception & Public Service Areas Waiting Lounges
- Breakout Zones Corridors

#### **TECHNICAL DETAILS**

Model No.	System Rated		CRI	Rated	Power	Dimensions (in mm)		
Model No.	Wattage CC	CCT	ст	Voltage	Factor	0	Ø	Н
LDRWS-25-C	25W	6500K	≥80	240V AC	≥0.9	152	142	122







Front View

# **LED TRACK LIGHT**

Track-based spot light with high-efficiency reflector makes it ideal for lighting up retail spaces with bright and crisp light.

#### **PRODUCT SPECIFICATIONS**

#### Housing

Pressure die-cast aluminium housing (heat sink) with powder-coated

High-efficiency and long-life COB LED with high lumen efficacy. Available in narrow and wide beam angles with 355° swivel and 90° elbow tilt.

#### Mounting

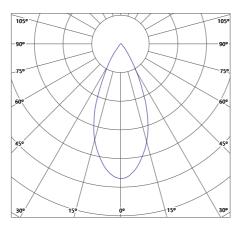
Track-mounted.

#### **Control Gear**

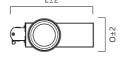
Powered by an inbuilt electronic LED driver.

# Surge Protection Up to 2.5 KV

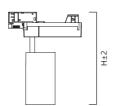
20



Front View



#### Side View



#### **RECOMMENDED USAGE**

- Retail Stores Hypermarkets Hotel Lobbies Waiting Areas
- Restaurants Museums

#### **TECHNICAL DETAILS**

Model No.	System	Rated	Rated CRI Rated Power	Rated Power Dimensions (in m				mm)
Model No.	Wattage	ge CCT CRI	CKI	Voltage	Factor	L	0	Н
LTSTL-20-C	20W	6500K	≥80	240V AC	≥0.9	203	100	201
LTSTL-30-C	30W	6500K	≥80	240V AC	≥0.9	203	100	201

Track rail to be ordered separately.

CCT's are available in Cool white, Neutral white & Warm white.

# **LED STRIP LIGHT**

Flexible LED strip uses high-brightness SMD LED as the light source (for indoor application only). It is highly suitable for cove-lighting, decorative lighting, etc.

#### **PRODUCT SPECIFICATIONS**

Flexible PCB, fits in any shape.

#### Mounting

Tape is used at the back of the strip to mount it.

#### **Control Gear**

Short-Circuit Protection, Surge Voltage Protection and other. Reliability tests.

20

#### Housing

Powered by a separate electronic driver with Output

# **Surge Protection** Up to 2.5 KV

#### **RECOMMENDED USAGE**

- Banks & Back Offices Reception & Public Service Areas Waiting Lounge
- Meeting Rooms Corridors

#### **TECHNICAL DETAILS**

Model No.	System	System Rated CRI Rated Wattage CCT Voltage	Power	Dimensions (in mm)			
iviodei ivo.	Wattage		Voltage	Factor	L	W	
LSTRIP-24-C	24W	6500K	≥80	240V AC	-	5000	10

Driver to be ordered separately.









# **TASKLINE IND**

LED batten in robust Aluminium housing is an ideal replacement solution for existing battens/fluorescent lamps.

#### **PRODUCT SPECIFICATIONS**

#### **Housing**

Epoxy powder-coated aluminium housing for efficient heat dissipation. Elegantly designed end caps to enhance the aesthetic view of the fixture.

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

#### Mounting

Fix directly into the wall/ceiling by means of mounting SS clips, provided with the fixture.

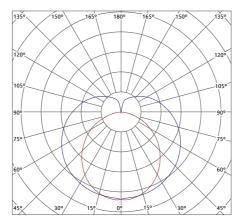
#### **Control Gear**

Powered by an integral electronic driver with Output Short-Circuit Protection, surge Protection & other safety tests.

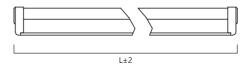
# **Surge Protection** Up to 3 KV



40



Front View



Side View



#### **RECOMMENDED USAGE**

- Commercial Buildings Residential Buildings Industrial Applications
- Other Indoor Applications

#### **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated Voltage	Power Factor	Dimensions (in mm)			
Model No.	Wattage CCT	ССТ				L	w	Н	
LBLN-40-C-IND	40W	5700K	≥80	240V AC	≥0.95	1136	45	55	

CCT's are available in Cool white, Neutral white & Warm white.

# **VAPORPROOF**

Energy-saving, long-life, corrosion-resistant, impact proof, surface/suspendedmounting luminaires with PC housing and linear ribbed PC cover for glare-free light; suitable for T8 LED tube.

Made up of corrosion-resistant unbreakable polycarbonate.

#### **Optics**

light-dispersive internal reeds fixed to the housing by means of SS toggles.

#### Mounting

65

#### **PRODUCT SPECIFICATIONS**

#### Housing

Clear polycarbonate cover with better

Fix directly into the wall/ceiling by means of mounting SS clips, provided with the fixture.

#### **RECOMMENDED USAGE**

• Chemical Plants • Stores • Food & Beverage Industry • Other Industrial Applications

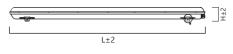
#### **TECHNICAL DETAILS**

Model No.	System Wattage LED TUBE	Rated CCT	CRI	Rated Voltage	Power Factor	Dimensions (in mm)		
						L	w	Н
LIVP-118-DS	1x18W T8	-	-	240V AC	-	1300	70	60
LIVP-218-DS	2x18W T8	-	-	240V AC	-	1300	110	60

<sup>\*</sup>Tubes to be ordered separately.







Side View







Energy-saving, long-life, corrosion-resistant, impact-proof, surface/suspended mounting luminaires with PC housing and PC cover for glare-free light.

# **PRODUCT SPECIFICATIONS**

Housing
Made up of scratch-resistant unbreakable polycarbonate in grey finish.
Cable gland used for maintaining ingress protection. High-quality polycarbonate diffuser in opal finish for glare-free uniform light distribution, snap-fitted to the housing.

# **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

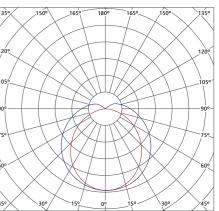
**Mounting**Fix directly into the wall/ceiling by means of mounting SS clips, provided with the fixture.

# **Control Gear**

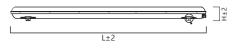
Powered by an integral electronic driver with Output Short-Circuit Protection, Surge Protection & other safety tests.

# Surge Protection Up to 3 KV









Side View



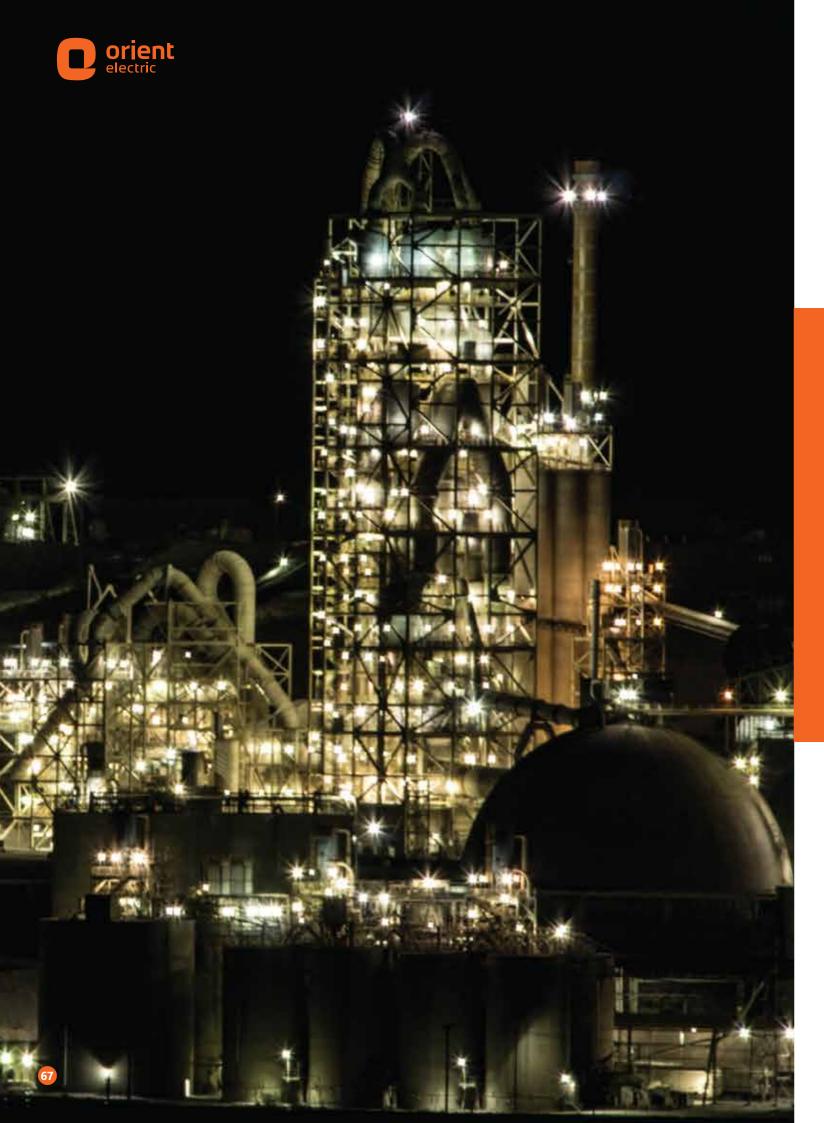
# **RECOMMENDED USAGE**

• Chemical Plants • Stores • Food & Beverage Industry • Other Industrial Applications

# TECHNICAL DETAILS

Madel No	System	Rated	CRI	Rated	Power	Dime	ensions (in	mm)
Model No.	Wattage CCT	CNI	Voltage	Factor	L	W	Н	
LIVP-36-C	36W	6500K	≥80	240V AC	≥0.95	1140	75	70







# **KRYPTON**

Energy-saving long-life corrosion-resistant, vertical surface- mounting pressure die-cast aluminium housing integral well glass luminaires with high-lumen LED as light source.

# **PRODUCT SPECIFICATIONS**

**Housing**Pressure die-cast aluminium alloy housing (heat sink) for effective thermal management, sturdiness & excellent corrosion- resistance; cable gland is provided at cable entry for maintaining ingress protection and for providing loopin & loopout facility. Epoxy powder-coated finish.

# **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

# Mounting

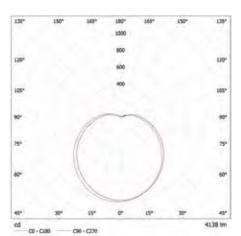
Suspended by means of eye-bolt provided with the fixture.

# **Control Gear**

Powered by an integral electronic driver with Output Short-Circuit Protection, Surge Protection & other safety tests.

# Surge Protection Up to 4 KV (internal)

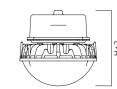
65



Front View



Side View



# **RECOMMENDED USAGE**

• Cement Plants • Power Plants • Conveyor Belts • Material Handling Areas

# TECHNICAL DETAILS

	System	Rated	400	Rated	Power	Dimensio	ns (in mm)
Model No.	Wattage	ССТ	CRI	Voltage	Factor	0	Н
LWKT-30-C	25W	5700K	≥70	240V AC	≥0.95	154	143
LWKT-36-C	30W	5700K	≥70	240V AC	≥0.95	154	143
LWKT-40-C	40W	5700K	≥70	240V AC	≥0.95	154	143
LWKT-45-C	45W	5700K	≥70	240V AC	≥0.95	154	143
LWKT-60-C	60W	5700K	≥70	240V AC	≥0.95	190	208
LWKT-70-C	70W	5700K	≥70	240V AC	≥0.95	190	208



# **NEUTRON**

Energy-saving long-life corrosion-resistant, vertical surface- mounting pressure die-cast aluminium housing and control gear compartment well glass luminaires with high-power LED as light source.

# **PRODUCT SPECIFICATIONS**

# Housing

Pressure die-cast aluminium alloy housing (heat sink) for effective thermal management, sturdiness & excellent corrosion- resistance. Epoxy powder coated finish.

# **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

# **Mounting**

Suspended by means of eye-bolt provided with the fixture.

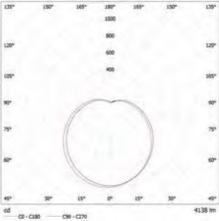
### **Control Gear**

Powered by an integral electronic driver with Output Short-Circuit Protection, Surge Protection & other safety tests.

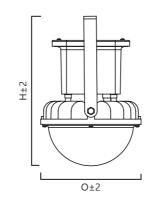
**Surge Protection**Up to 4 KV (internal); optional 10 KV external SPD.







Side View

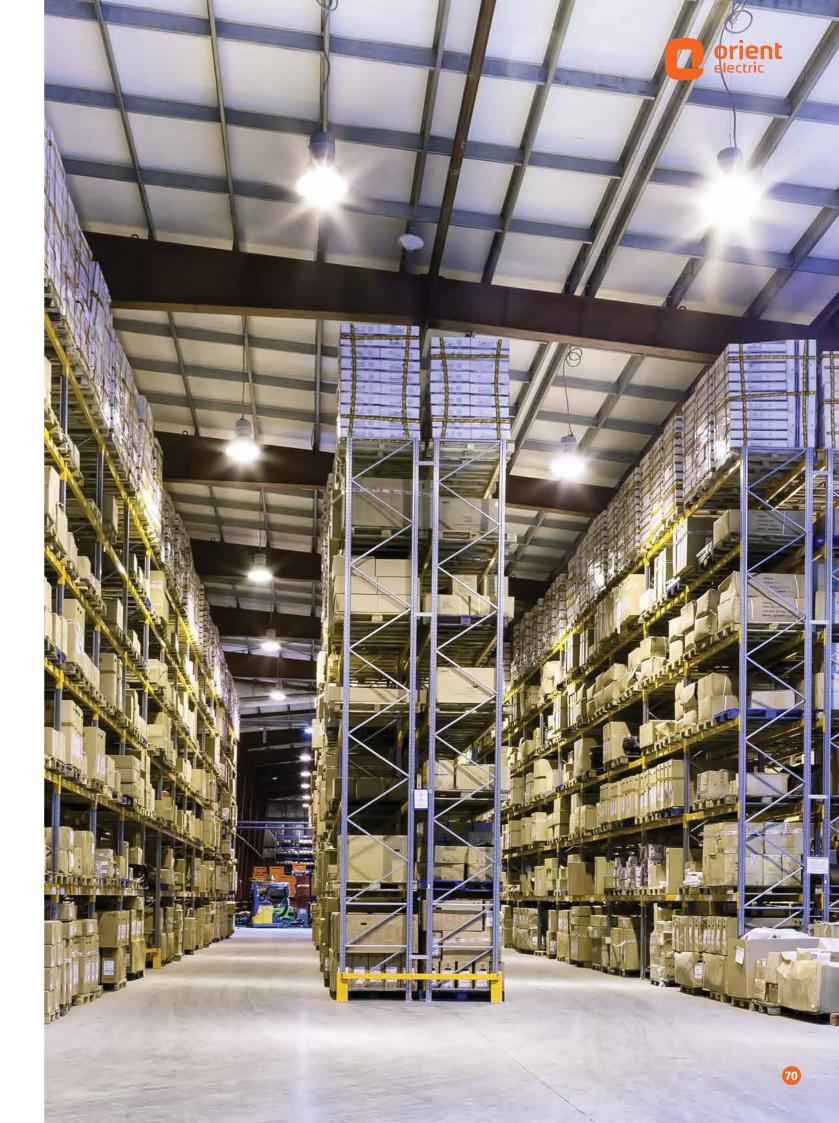


# **RECOMMENDED USAGE**

• Cement Plants • Power Plants • Conveyor Belts • Material Handling Areas

# TECHNICAL DETAILS

Model No.	System Wattage	Rated CCT	CRI	Rated Voltage	Power Factor	Dimensior O	ns (in mm) H
LWNT-35-C	35W	5700K	≥70	240V AC	≥0.95	154	229







# **VERTEX SPIRAL**

LED Highbay with high efficacy of 110 lm/W designed with excellent thermally managed aluminium die cast housing having heat dissipating fins for larger surface area, satin finish powder coating and fitted with polycarbonate lens diffuser in the front for the desired Ingress Protection.

# **PRODUCT SPECIFICATIONS**

# Housing

Excellent thermally managed Pressure die cast aluminum.

# **Optics**

PC Lens Cluster Cover with 60° Beam Angle.

# **Mounting**

Eyebolt.

### **Control Gear**

Powered by independent electronic LED driver with Output Short-circuit protection, Surge protection & other reliability tests.

# **Surge Protection**

Upto 4 KV (internal), optional 10KV SPD

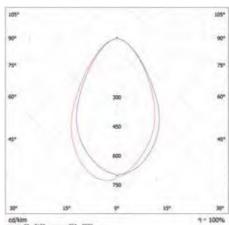
**RECOMMENDED USAGE** 

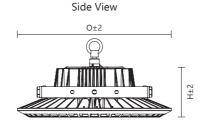
• Warehouses • Industrial Sheds • Hyper/supermarkets



65







# **PINNACLE**

LED Highbay with high efficacy of 110 lm/W designed with excellent thermally managed aluminium die cast housing having heat dissipating fins for larger surface area, satin finish powder coating and fitted with toughened glass in the front.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast housing & control gear box for better heat dissipation and aesthetic appeal. Gland is used for cable entry. The fixture is epoxy powder-coated for smooth finish.

# **Optics**

High-quality PC lens with optional beam angles 60° & 90° for uniform distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

# Mounting

Bracket mounting

### **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection**

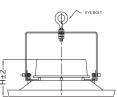
Up to 4 KV (Interal), Optional 10 KV external SPD.

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# Front View

### Side View



# **RECOMMENDED USAGE**

• Warehouses • Industrial Sheds • Manufacturing Units

# TECHNICAL DETAILS

Model No.	System	Rated	CRI	Rated	Power	Dimensio	ns (in mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	Н
LHVXS-080-C	80W	5700K	≥70	240V AC	≥0.95	292	135
LHVXS-100-C	100W	5700K	≥70	240V AC	≥0.95	292	135
LHVXS-120-C	120W	5700K	≥70	240V AC	≥0.95	292	135
LHVXS-150-C	150W	5700K	≥70	240V AC	≥0.95	344	109
LHVXS-180-C	180W	5700K	≥70	240V AC	≥0.95	400	165
LHVXS-200-C	200W	5700K	≥70	240V AC	≥0.95	400	165

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dim	ensions (in mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	H (without bracket)
LHPN-080-C-V1	80W	5700K	≥70	240V AC	≥0.95	276	135
LHPN-100-C-V1	100W	5700K	≥70	240V AC	≥0.95	276	135
LHPN-120-C-V1	120W	5700K	≥70	240V AC	≥0.95	276	135
LHPN-150-C-V1	150W	5700K	≥70	240V AC	≥0.95	360	132
LHPN-180-C-V1	180W	5700K	≥70	240V AC	≥0.95	360	132
LHPN-200-C-V1	200W	5700K	≥70	240V AC	≥0.95	360	

CCT's are available in Cool white, Neutral white & Warm white.



# **PINNACLE PLUS**

LED Highbay with high efficacy of 130 lm/W designed with excellent thermally managed aluminium die cast housing having heat dissipating fins for larger surface area, satin finish powder coating and fitted with toughened glass in the front.

# **PRODUCT SPECIFICATIONS**

# Housing

Pressure die-cast housing & control gear box for better heat dissipation and aesthetic appeal. Gland is used for cable entry. The fixture is epoxy powder-coated with smooth finish.

# **Optics**

High-quality PC lens with optional beam angles 60° & 90° for uniform distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

# Mounting

Bracket mounting.

# **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

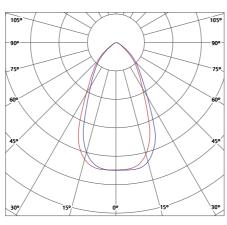
**Surge Protection**Up to 4 KV (internal); optional 10 KV external SPD

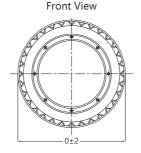


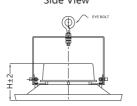
# **RECOMMENDED USAGE**

• Warehouses • Industrial sheds • Hyper/supermarkets • Manufacturing units

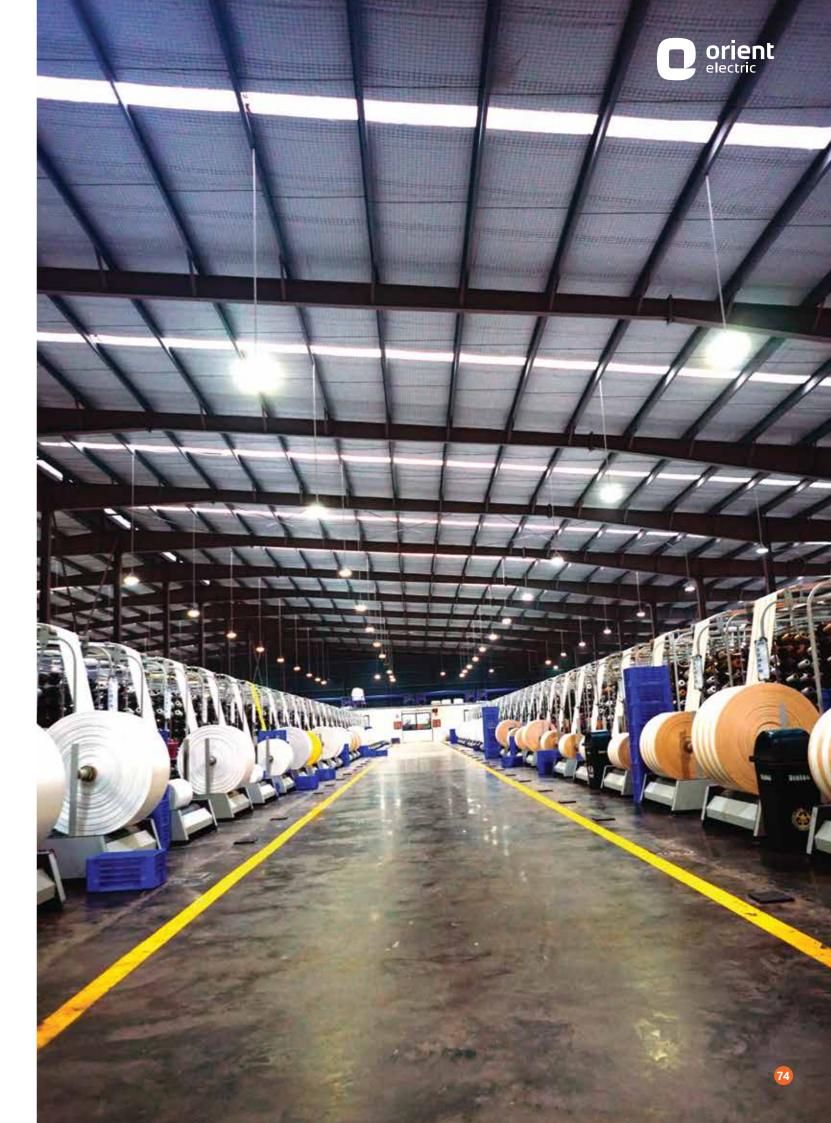








Model No.	System	Rated	CRI	Rated	Power	Dim	ensions (in mm)
wodei No.	Wattage	ССТ	CKI	Voltage	Factor	0	H (without bracket)
LHPNP-080-C	80W	5700K	≥70	240V AC	≥0.95	285	120
LHPNP-100-C	100W	5700K	≥70	240V AC	≥0.95	285	120
LHPNP-120-C	120W	5700K	≥70	240V AC	≥0.95	285	120
LHPNP-150-C	150W	5700K	≥70	240V AC	≥0.95	385	127
LHPNP-180-C	180W	5700K	≥70	240V AC	≥0.95	385	127
LHPNP-200-C	200W	5700K	≥70	240V AC	≥0.95	385	127







# **CANOPY**

Innovative design petrol pump/canopy lights with power LEDs as light source.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast aluminium housing with frame and elegantly designed extruded aluminium heat sink for efficient thermal management, sturdiness & excellent corrosion resistance.

# **Optics**

High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

### Mounting

Recess-mounting.

### **Control Gear**

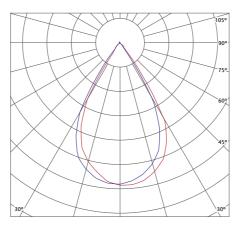
Independent electronic driver, lower THD, open-circuit protection, over voltage protection, surge voltage protection & other safety tests.

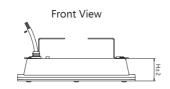
# **Surge Protection**

Up to 4 KV (internal)



65





# Side View

# **RECOMMENDED USAGE**

• Petrol Pumps • Toll Plaza • Railway Platforms

# **TECHNICAL DETAILS**

Model No.	System	Rated	Rated CRI	Rated	Power	Dimensions (in mm)		
iviodei No.	Wattage	ССТ	CKI	Voltage	Factor	L	W	Н
LICP-080-C	80W	5700K	≥80	240V AC	≥0.95	283	246	55
LICP-100-C	100W	5700K	≥80	240V AC	≥0.95	283	246	55

CCT's are available in Cool white, Neutral white & Warm white

# **CLEANLED-R-BO**

Dust-free and zero-maintenance recess-mounting bottom- opening LED cleanroom luminaire.

# **PRODUCT SPECIFICATIONS**

# Housing

MS powder-coated white housing having high-quality opal diffuser for glare-free uniform light distribution.

High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

# Mounting

Recess-mounting.

Protection, Surge Protection & other safety tests.

Up to 2.5 KV (internal)

High transmittance opal diffuser for glare free uniform light distribution.

### **Control Gear**

Powered by an integral electronic driver with output short-Circuit

# **Surge Protection**

65 (From bottom)

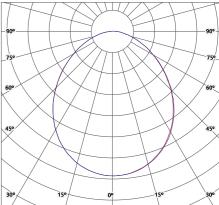
# **RECOMMENDED USAGE**

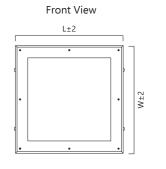
- Pharma Industry Chemical & Biological Labs Hospitals
- Food & Beverage Industry

Model No.	System	· · · · · · · · · · · · · · · · · · ·	CRI	Rated	Power	Dime	ensions (in mm)	
woder No.	Wattage	CCT	CKI	Voltage	Factor	LxW	Ø	Н
LTRCL-24-C-BO	24W	6500K	≥80	240V AC	≥0.95	330x330	300x300	80
LTRCL-36-C-BO	36W	6500K	≥80	240V AC	≥0.95	595x595	575x575	80
LTRCL-45-C-BO	45W	6500K	≥80	240V AC	≥0.95	595x595	575x575	80
LTRCL-60-C-BO	60W	6500K	≥80	240V AC	≥0.95	595x595	575x575	80

















# **CLEANLED-R-TO**

Dust-free and zero-maintenance recess-mounting top openable LED cleanroom luminaire.

# **PRODUCT SPECIFICATIONS**

# Housing

MS powder-coated white housing having high-quality opal diffuser for glare-free uniform light distribution.

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

# Mounting

Recess-mounting.

### **Control Gear**

Powered by an integral electronic driver with Output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection**

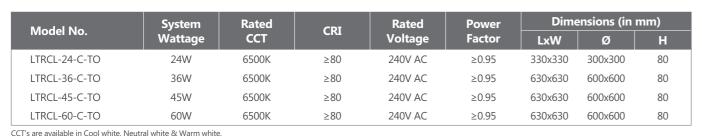
Up to 2.5 KV (internal)

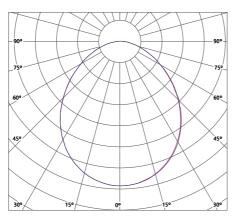
65 (From Top)

# **RECOMMENDED USAGE**

- Pharma Industry Chemical & Biological Labs Hospitals
- Food & Beverage Industry

# **TECHNICAL DETAILS**





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Front View

Side View

# **BULKHEAD PLUS**

Ultra modern, energy saving, surface mounted, decorative oval bulk head edge-lit LED luminaires comprising of high brightness LEDs.

# **PRODUCT SPECIFICATIONS**

# Housing

Oval shaped pressure die-cast aluminium housing & ring for sturdiness & corrosion resistance. Epoxy powder coated white after phosphochromate treatment.

# **Optics**

High transmittance opal diffuser for glare free uniform light distribution. High lumen efficacy LED with viewing angle of 120° used to enhance the lumen output.

### Mounting

Wall/ceiling mounted by means of clamp with expansion screws provided.

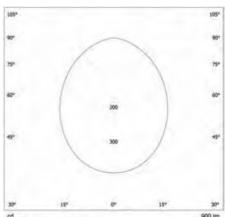
### **Control Gear**

Powered by built-in electronic LED driver with Output Short-circuit protection, Surge protection & other safety tests.

# **Surge Protection**

Upto 2.5 KV(Internal)

65



Side View

# **RECOMMENDED USAGE**

• Staircases • Basements • Security Lighting

Model No.	System	Rated	CRI	Rated	Power	Dime	ensions (in	mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	L	W	Н
LIBHP-10-C	10W	5700K	≥70	240V AC	≥0.9	195	95	85

CCT's are available in Cool white, Neutral white & Warm white







# **FEST**

Highly efficient IP66 LED streetlight with aluminium pressure die cast housing toughened glass in the front and peanut lens for batwing light distribution to ensure uniform light distribution. Front maintainable driver compartment for easy maintenance.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland used for maintaining ingress protection. Epoxy powder coated with smooth finish. Tempered protective toughened glass, thermal, shock and impact-resistant, fixed to the housing.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

### Mounting

Suitable for pole mounting with bracket arm.

### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

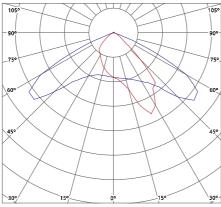
# **Surge Protection**

Upto 4 KV (Internal); Inbuilt 10KV external SPD

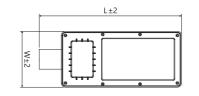


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Front View



ide View



# **RECOMMENDED USAGE**

• Road Lighting • Campus Lighting • Industrial Estates • Open Parkings • Circulating Areas

# **TECHNICAL DETAILS**

Model No.	No. System Rated	CRI	Rated	Power	Dimensions (in mm)			
Wodel No.	Wattage	ССТ	CRI	Voltage	Factor	L	W	Н
LSFT-045-C	45W	5700K	≥70	240V AC	≥0.95	376	148	70
LSFT-060-C	60W	5700K	≥70	240V AC	≥0.95	376	148	70
LSFT-070-C	70W	5700K	≥70	240V AC	≥0.95	376	148	70

CCT's are available in Cool white, Neutral white & Warm white.

# **FIESTA**

LED streetlight designed with excellent thermally managed aluminium pressure die cast housing having heat dissipating fins for larger surface area, matt finish powder coated in grey paint and fitted with polycarbonate cover in the front for the desired Ingress Protection. Front maintainable driver compartment for easy maintenance.

# **PRODUCT SPECIFICATIONS**

# Housing

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion-resistance. Cable gland is used for maintaining ingress protection. Epoxy powder coated with smooth finish. High-quality PC cover fixed to the housing.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# Mounting

Suitable for pole mounting with bracket arm.

### **Control Gear**

Powered by an integral electronic driver with output short-Circuit Protection, Surge Protection & other safety tests.

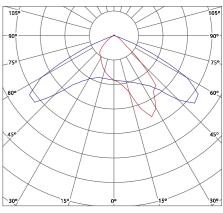
### **Surge Protection**

Up to 4 KV (internal); optional 10 KV external SPD

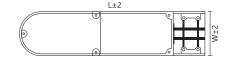
IP

66

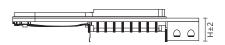




Front View



Side View



# **RECOMMENDED USAGE**

• Road Lighting • Campus Lighting • Industrial Estates • Open Parking • Circulating Areas

# **TECHNICAL DETAILS**

Model No.	System	Rated CPI Rated Power	CRI				n mm)	
Widdel No.	Wattage	CCT	T Voltage Factor	L	W	Н		
LSFS-020-CF	20W	5700K	≥70	240V AC	≥0.95	3 <b>22</b> 5	79 79 54	5410





# **FIESTA PC**

LED streetlight designed with excellent thermally managed aluminium pressure die-cast housing having heat-dissipating fins for larger surface area, mattefinish powder-coated in grey paint and fitted with polycarbonate cover in the front for the desired Ingress Protection.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion- resistance. Cable gland is used for maintaining ingress protection. Epoxy powder-coated with smooth finish. High-quality PC cover fixed to the housing.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# **Mounting**

Suitable for pole mounting with bracket arm.

### **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

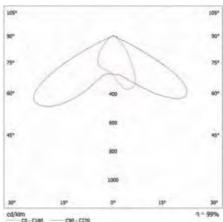
# **Surge Protection**

Up to 4 KV (Internal); optional 10 KV external SPD

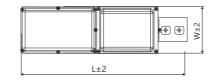


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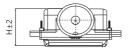




Front View



Side View



# RECOMMENDED USAGE

• Road Lighting • Campus Lighting • Industrial Estates • Open Parking • Circulating Areas

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dim	ensions (	in mm)
Wodel No.	Wattage	CCT	CKI	Voltage	Factor	L	w	н
LSFS-25-CF-PC	25W	5700K	≥70	240V AC	≥0.95	246	103	85
LSFS-36-CF-PC	36W	5700K	≥70	240V AC	≥0.95	255	118	85
LSFS-45-CF-PC	45W	5700K	≥70	240V AC	≥0.95	255	118	85

CCT's are available in Cool white, Neutral white & Warm white.

# **FIESTA PLUS**

Highly-efficient LED streetlight with aluminium pressure die-cast housing toughened glass in the front and peanut lens for batwing light distribution to ensure uniform light distribution. Front maintainable driver compartment for easy maintenance.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast aluminium alloy for housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection. Epoxy powder-coated with smooth finish. Tempered protective toughened glass, thermal, shock and impact-resistant, fixed to the housing.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

### Mounting

Suitable for pole mounting with bracket arm.

### **Control Gear**

Powered by an integral electronic driver with output short-Circuit Protection, Surge Protection & other safety tests.

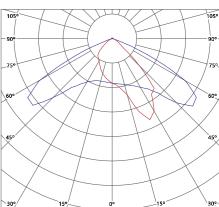
# **Surge Protection**

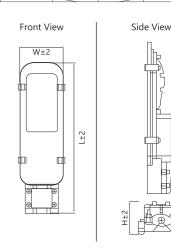
Up to 4 KV (internal); optional 10 KV external SPD

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# **RECOMMENDED USAGE**

• Road Lighting • Campus Lighting • Industrial Estates • Open Parking • Circulating Areas

# **TECHNICAL DETAILS**

Model No.	L No. System Rated		CRI Ra	Rated	ated Power		Dimensions (in mm)			
Wiodel No.	Wattage	ССТ	CKI	Voltage	Factor	L	w	Н	Pole OD	
LSFS-020-C	20W	5700K	≥70	240V AC	≥0.95	325	94	74	25-35	
LSFS-030-C	30W	5700K	≥70	240V AC	≥0.95	325	94	74	25-35	





# **FIESTA PLUS**

Highly-efficient LED streetlight with aluminium pressure die-cast housing toughened glass in the front, and peanut lens for batwing light distribution to ensure uniform light distribution. Top maintainable driver compartment for easy maintenance.

# **PRODUCT SPECIFICATIONS**

# Housing

Pressure die-cast aluminium housing (heat sink) and elegantly designed extruded aluminium heat sink for effective thermal management, sturdiness & excellent corrosion- resistance. Cable gland is used for maintaining ingress protection. Epoxy powder-coated with smooth finish. Tempered protective toughened glass, thermal, shock and impact-resistant, fixed to the housing.

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# Mounting

Suitable for pole mounting with bracket arm.

### **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection**

Up to 4 KV (internal); Inbuilt 10 KV external SPD



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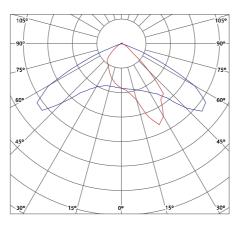
# **RECOMMENDED USAGE**

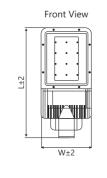
• Road Lighting • Campus Lighting • Industrial Estates • Open Parking • Circulating Areas

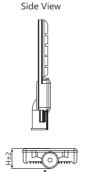
# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Din	nensions (	(in mm)
Model No.	Wattage	CCT	CNI	Voltage	Factor	L	w	Н
LSFS-040-C	40W	5700K	≥70	240V AC	≥0.95	325	94	74
LSFS-045-C	45W	5700K	≥70	240V AC	≥0.95	325	94	74
LSFS-060-C	60W	5700K	≥70	240V AC	≥0.95	388	95	88
LSFS-070-C	70W	5700K	≥70	240V AC	≥0.95	391	179	62
LSFS-080-C	80W	5700K	≥70	240V AC	≥0.95	391	179	62
LSFS-090-C	90W	5700K	≥70	240V AC	≥0.95	391	179	62
LSFS-110-C	110W	5700K	≥70	240V AC	≥0.95	446	226	115
LSFS-120-C	120W	5700K	≥70	240V AC	≥0.95	446	226	115
LSFS-150-C	150W	5700K	≥70	240V AC	≥0.95	446	226	115
LSFS-160-C	160W	5700K	≥70	240V AC	≥0.95	540	266	90
LSFS-180-C	180W	5700K	≥70	240V AC	≥0.95	540	266	90
LSFS-200-C	200W	5700K	≥70	240V AC	≥0.95	540	266	90
LSFS-250-C	250W	5700K	≥70	240V AC	≥0.95	660	264	97









# FIESTA PLUS PC

Highly-efficient LED streetlight with aluminium pressure die-cast housing and engraved PC lens in the front for batwing light distribution to ensure uniform light distribution. Front maintainable driver compartment for easy maintenance.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast aluminium for housing for effective thermal management, sturdiness & excellent corrosion resistance. Cable gland is used for maintaining ingress protection. Epoxy powder-coated with smooth finish. Engraved PC lens front cover fixed to the housing.

### **Optics**

High lumen efficacy LED module with SMD LED package mounted with engraved PC lens to ensure better uniformity of light distribution.

### Mounting

Suitable for pole mounting with bracket arm.

### **Control Gear**

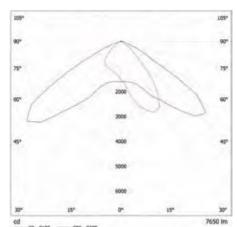
Powered by an integral electronic driver with output short-Circuit Protection, Surge Protection & other safety tests.

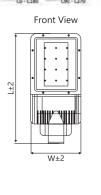
# **Surge Protection**

Up to 4 KV (internal); optional 10 KV external SPD

# **IP**

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# **RECOMMENDED USAGE**

• Road Lighting • Campus Lighting • Industrial Estates • Open Parking • Circulating Areas

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Din	nensions (	in mm)
Model No.	Wattage	ССТ	Voltage Factor		Factor	L	W	Н
LSFS-030-C-PC	30W	5700K	≥70	240V AC	≥0.95	253	85	70
LSFS-045-C-PC	45W	5700K	≥70	240V AC	≥0.95	317	96	57
LSFS-060-C-PC	60W	5700K	≥70	240V AC	≥0.95	300	153	89
LSFS-070-C-PC	70W	5700K	≥70	240V AC	≥0.95	300	153	89
LSFS-090-C-PC	90W	5700K	≥70	240V AC	≥0.95	300	153	89
LSFS-100-C-PC	100W	5700K	≥70	240V AC	≥0.95	300	153	89
LSFS-120-C-PC	120W	5700K	≥70	240V AC	≥0.95	366	196	90
LSFS-150-C-PC	150W	5700K	≥70	240V AC	≥0.95	480	210	93
LSFS-180-C-PC	180W	5700K	≥70	240V AC	≥0.95	539	263	90
LSFS-200-C-PC	200W	5700K	≥70	240V AC	≥0.95	539	263	90

CCT's are available in Cool white. Neutral white & Warm white.





# **SIGMA**

Energy saving, robust LED Flood light luminaires with high efficacy suitable for highlighting architectural facade highmast and general purpose lighting.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Aluminum alloy pressure die casted housing & control gear box for better heat dissipation and aesthetic appeal. The fixture is epoxy powder coated with smooth finish.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted to ensure better uniformity of light distribution.

# Mounting

Wall or surface mounting using adjustable MS cradle.

### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

# **Surge Protection**

Upto 4 KV (Internal)



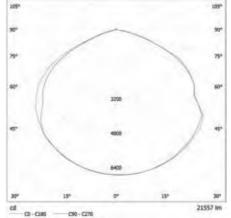
# **RECOMMENDED USAGE**

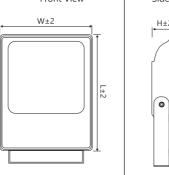
- Area Lighting Building Façade Open Parking Security Lighting
- Construction Sites Lighting

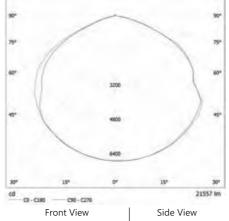
# **TECHNICAL DETAILS**

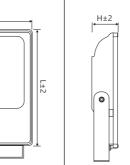
Model No.	System	Rated	CDI	CRI Rated		Dimer	nsions (i	n mm)
Model No.	Wattage CCT		CKI	Voltage	Factor	L	w	н
LFSM-020-C-V1	20W	5700K	≥70	240V AC	≥0.95	179	184	44
LFSM-030-C-V1	30W	5700K	≥70	240V AC	≥0.95	179	184	44
LFSM-040-C-V1	40W	5700K	≥70	240V AC	≥0.95	224	229	52
LFSM-050-C-V1	50W	5700K	≥70	240V AC	≥0.95	224	229	52
LFSM-060-C-V1	60W	5700K	≥70	240V AC	≥0.95	224	229	52
LFSM-070-C-V1	70W	5700K	≥70	240V AC	≥0.95	275	285	63
LFSM-080-C-V1	80W	5700K	≥70	240V AC	≥0.95	275	285	63
LFSM-100-C-V1	100W	5700K	≥70	240V AC	≥0.95	275	285	63
LFSM-120-C-V1	120W	5700K	≥70	240V AC	≥0.95	306	285	75
LFSM-150-C-V1	150W	5700K	≥70	240V AC	≥0.95	306	285	75
LFSM-160-C-V1	160W	5700K	≥70	240V AC	≥0.95	306	285	75
LFSM-180-C-V1	180W	5700K	≥70	240V AC	≥0.95	355	327	75
LFSM-200-C-V1	200W	5700K	≥70	240V AC	≥0.95	355	327	84
LFSM-250-C-V1	250W	5700K	≥70	240V AC	≥0.95	355	327	84
LFSM-300-C-V1	300W	5700K	≥70	240V AC	≥0.95	400	420	75
LFSM-350-C-V1	350W	5700K	≥70	240V AC	≥0.95	510	395	155
LFSM-400-C-V1	400W	5700K	≥70	240V AC	≥0.95	510	395	155











# **SIGMA ULTRA**

Energy-saving, robust LED flood light luminaires with high efficacy-suitable for highlighting architectural facade High-mast and general purpose lighting.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Aluminium alloy pressure die-casted housing & control gear box for better heat dissipation and aesthetic appeal. The fixture is epoxy powder-coated with smooth finish.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted

# Mounting

Wall or surface mounting using adjustable MS cradle.

# **Control Gear**

Powered by an integral electronic d river with output Short-Circuit Protection, Surge Protection & other safety tests.

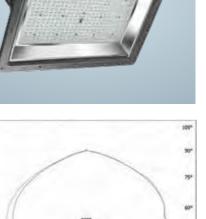
# **Surge Protection**

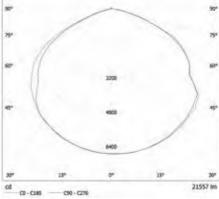
Up to 4 KV (internal); Inbuilt 10 KV external SPD

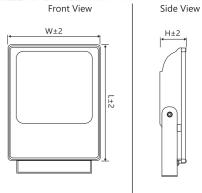
### IP

# **RECOMMENDED USAGE**

• Area Lighting • Building Façade • Open Parking • Security Lighting







# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimensions (in mm		
Model No.	Wattage	ССТ	CKI	Voltage	Factor	L	w	н
LFSMU-070-C	70W	5700K	≥70	240V AC	≥0.95	228	188	130
LFSMU-100-C	100W	5700K	≥70	240V AC	≥0.95	305	305	80
LFSMU-120-C	120W	5700K	≥70	240V AC	≥0.95	305	305	80
LFSMU-150-C	150W	5700K	≥70	240V AC	≥0.95	305	305	80
LFSMU-200-C	200W	5700K	≥70	240V AC	≥0.95	390	299	155
LFSMU-250-C	250W	5700K	≥70	240V AC	≥0.95	390	299	155





# **SIGMA PLUS**

Energy-saving, robust LED flood light luminaires with high- efficacy suitable for stadium and sports lighting. High-mast and general purpose lighting.

# **PRODUCT SPECIFICATIONS**

# Housing

Aluminium alloy pressure die-casted housing & control gear box for better heat dissipation and aesthetic appeal. The fixture is epoxy powder- coated with smooth finish.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

### Mounting

Wall or surface mounting using adjustable MS cradle.

### **Control Gear**

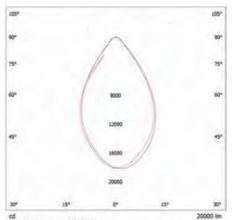
Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

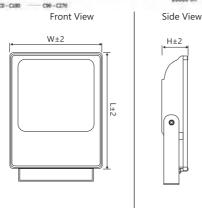


# **RECOMMENDED USAGE**

• Sports & Stadium Lighting • Highmast Lighting • Security Lighting • Junction Lighting

# W±2 **Surge Protection** Up to 4 KV (internal); Inbuilt 10 KV external SPD





**TECHNICAL DETAILS** 

Model No.	System	Rated	CRI**	Rated	Power	Dimer	nsions (i	n mm)
Model No.	Wattage	ССТ	Cita	Voltage	Factor	L	w	н
LFSMP-050-C	50W	5700K	≥70	240V AC	≥0.95	247	190	68
LFSMP-080-C	80W	5700K	≥70	240V AC	≥0.95	247	190	68
LFSMP-100-C	100W	5700K	≥70	240V AC	≥0.95	400	258	82
LFSMP-120-C	120W	5700K	≥70	240V AC	≥0.95	400	258	82
LFSMP-150-C	150W	5700K	≥70	240V AC	≥0.95	400	258	82
LFSMP-200-C	200W	5700K	≥70	240V AC	≥0.95	460	304	90
LFSMP-250-C	250W	5700K	≥70	240V AC	≥0.95	460	304	90
LFSMP-300-C	300W	5700K	≥70	240V AC	≥0.95	503	346	75
LFSMP-350-C	350W	5700K	≥70	240V AC	≥0.95	503	346	75
LFSMP-400-C	400W	5700K	≥70	240V AC	≥0.95	503	346	75

# **ALPHA**

Energy-saving, robust LED flood light luminaires with high efficacy-suitable for highlighting architectural facade High-mast and general purpose lighting.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Aluminium alloy pressure die-casted housing & control gear box for better heat dissipation and aesthetic appeal. Gland is used for cable entry and loopin-loopout. The fixture is epoxy powder- coated with smooth finish.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# Mounting

Wall or surface mounting using adjustable MS cradle.

### **Control Gear**

Powered by an integral electronic d river with output Short-Circuit Protection, Surge Protection & other safety tests.

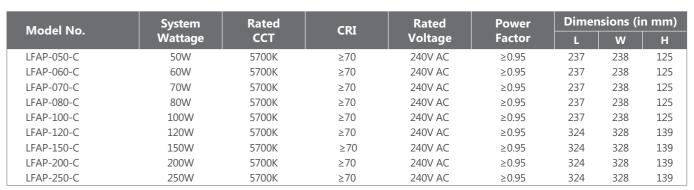
# **Surge Protection**

Up to 4 KV (internal); Inbuilt 10 KV external SPD

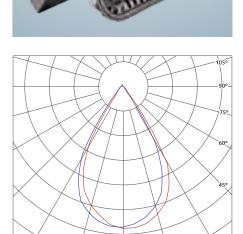
# **RECOMMENDED USAGE**

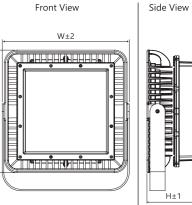
- Area Lighting Building Façade Open Parking Security Lighting
- Junction Lighting

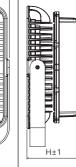
# **TECHNICAL DETAILS**













# **DELTA**

Energy-saving, robust LED flood light luminaires with high- efficacy suitable for stadium and sports lighting. High-mast and general purpose lighting.

# **PRODUCT SPECIFICATIONS**

# Housing

Aluminium alloy pressure die-casted housing & control gear box for better heat dissipation and aesthetic appeal. The fixture is epoxy powder- coated with smooth finish.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# Mounting

Wall or surface mounting using adjustable MS cradle.

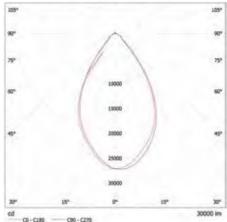
# **Control Gear**

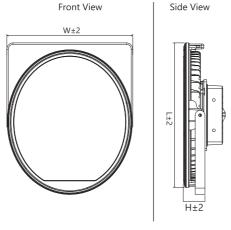
Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

**Surge Protection**Up to 4 KV (internal); Inbuilt 10 KV external SPD

66







# **RECOMMENDED USAGE**

• Sports & Stadium Lighting • Highmast Lighting • Security Lighting • Junction Lighting

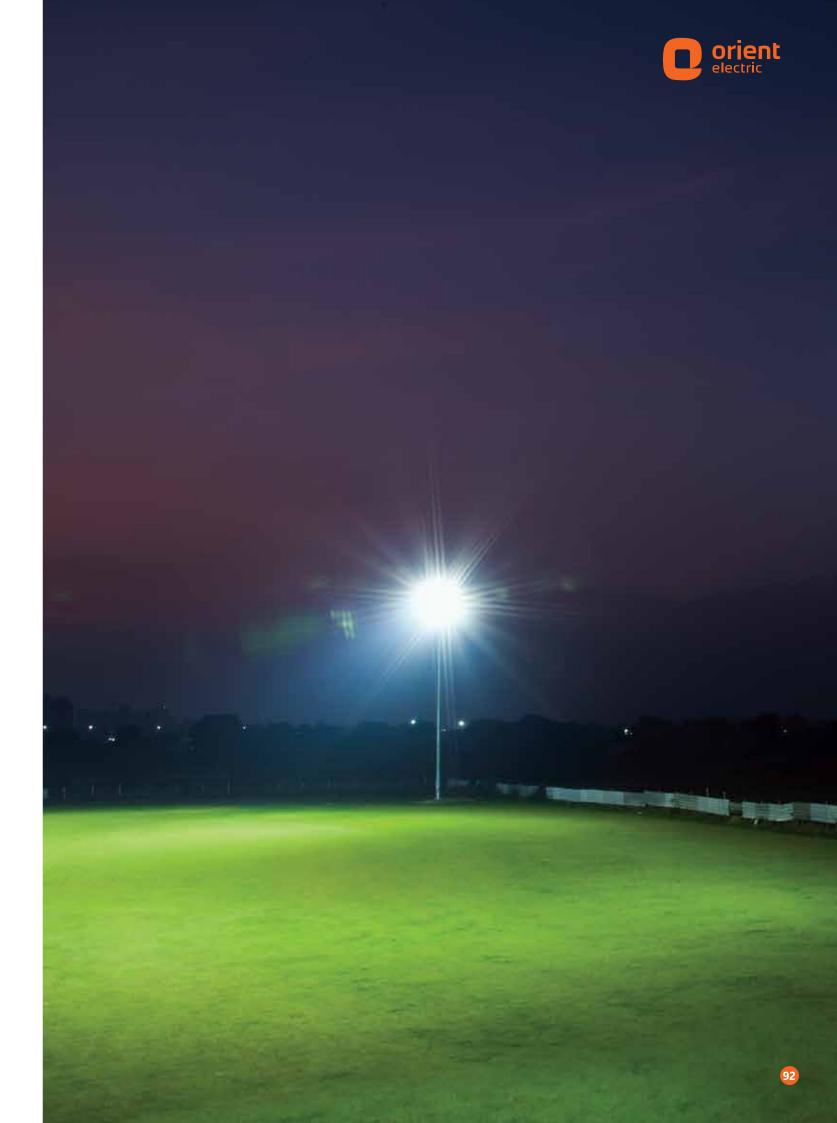
# TECHNICAL DETAILS

Model No.	System	Rated	CRI**	Rated	Power	Dimer	Dimensions (in mm)		
Model No.	Wattage	ССТ	CCT CRI Voltage		Factor	L	w	Н	
LFDT-300-C	300W	5700K	≥70	240V AC	≥0.95	379	325	166	
LFDT-350-C	350W	5700K	≥70	240V AC	≥0.95	460	394	177	
LFDT-400-C	400W	5700K	≥70	240V AC	≥0.95	460	394	177	
*LFDT-450-C	450W	5700K	≥70	240V AC	≥0.95	500	419	177	
*LFDT-500-C	500W	5700K	≥70	240V AC	≥0.95	500	419	177	

\*Separate Driver box is provided in 450W & 500W.

"Customised CRI can be provided on request.
CCT's are available in Cool white, Neutral white & Warm white.











# **SOLARIN**

Highly efficient IP65 LED Solar Lighting System with built-in high efficiency Solar Panel, LED Light and long-life LiFePO4 / Li-ion battery with high efficiency microprocessor-based charge controller and PIR sensor. The light has automatic dusk to down operation and maintenance free after installation.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance.

# **Optics**

135° x 85° PC Lens.

# **Mounting**

Pole Mounting.

### **Panel**

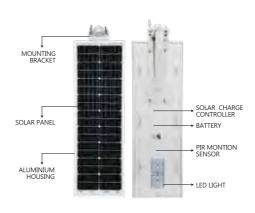
Solar Photovoltaic Panel.

# **Battery Type**

Lithium

### ΙP

65



# **SOLAR SPIKE LIGHT**

IP65 LED solar garden spike light with solar panel, 4 No. LED Light and Lithium battery with charge controller.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance.

# **Optics**

Clear diffuser.

# Mounting

Spike mounted.

### **Panel**

Solar Photovoltaic Panel.

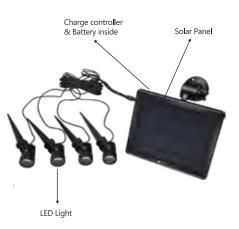
# **Battery Type**

Lithium

### IP

65





# **RECOMMENDED USAGE**

• Planter Area Lighting • Ornamental Lighting

# **TECHNICAL DETAILS**

Model No.	Wattage (W)	Solar Panel (W)	Battery Capacity (AH)	Autonomy	CRI	Beam Angle
LSSL-04-C	1W x 4 Nos	5.5	6	8 Hours	≥70	≥120°

# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	Wattage (W)	Solar Panel (W)	Battery Capacity (AH)	Autonomy	CRI	Beam Angle
LSSN-09C30-12P	9	30	12	24 Hours	≥70	135°/85°
LSSN-12C40-18P	12	40	18	24 Hours	≥70	135°/85°
LSSN-15C40-24P	15	40	24	24 Hours	≥70	135°/85°
LSSN-20C50-30P	20	50	30	24 Hours	≥70	135°/85°
LSSN-30C90-30P	30	90	30	24 Hours	≥70	135°/85°
LSSN-40C70-30P	40	70	30	12 Hours	≥70	135°/85°

95



# **SOLAR BOLLARD**

IP65 LED Solar bollard with built-in solar panel, LED Light and Lithium battery with charge controller.

# PRODUCT SPECIFICATIONS

**Housing**Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance.

# **Optics**Opal diffuser.

# **Mounting**Fixed on ground.

### **Panel**

Solar Photovoltaic Panel.

# Battery Type Lithium





# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting

Model No.	Wattage (W)	Solar Panel (W)	Battery Capacity (AH)	Autonomy	CRI	Beam Angle
LSBL-03-C	3	3.5	4	8 Hours	≥70	≥120°







# **SOLAR GATE LIGHT**

IP65 LED Solar surface post top with built-in Solar panel, LED light and Lithium battery with charge controller.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance.

# **Optics**

Clear diffuser.

# **Mounting**

Surface mounting.

### **Panel**

Solar photovoltaic panel.

# **Battery Type**

Lithium.

### IΡ

65





# **SOLAR PILLAR LIGHT**

IP65 LED Solar pillar light with built-in Solar panel, LED Light and Lithium battery with charge controller.

# **PRODUCT SPECIFICATIONS**

### Housing

Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance.

# **Optics**

Opal diffuser.

### Mounting

Pole mounted.

### **Panel**

Solar photovoltaic panel.

# **Battery Type**

Lithium

### ΙP

65





# RECOMMENDED USAGE

Parks and Garden Lighting • Gate Lighting • Boundary Lighting

# **TECHNICAL DETAILS**

Model No.	Wattage (W)	Solar Panel (W)	Battery Capacity (AH)	Autonomy	CRI	Beam Angle
LSGL-02-C	2	3.7	2.5	8 Hours	≥70	≥120°

# **RECOMMENDED USAGE**

Parks and Garden Lighting • Gate Lighting • Boundary Lighting

Model No.	Wattage (W)	Solar Panel (W)	Battery Capacity (AH)	Autonomy	CRI	Beam Angle
LSPL-03-C	3	5	4.4	8 Hours	≥70	≥120°





# **SOLAR POST TOP**

IP65 LED Solar post top with built-in Solar panel, LED light and Lithium battery with charge controller.



Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance.

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# Mounting Pole mounting.

# **Panel**

Solar photovoltaic panel.

# **Battery Type**

65



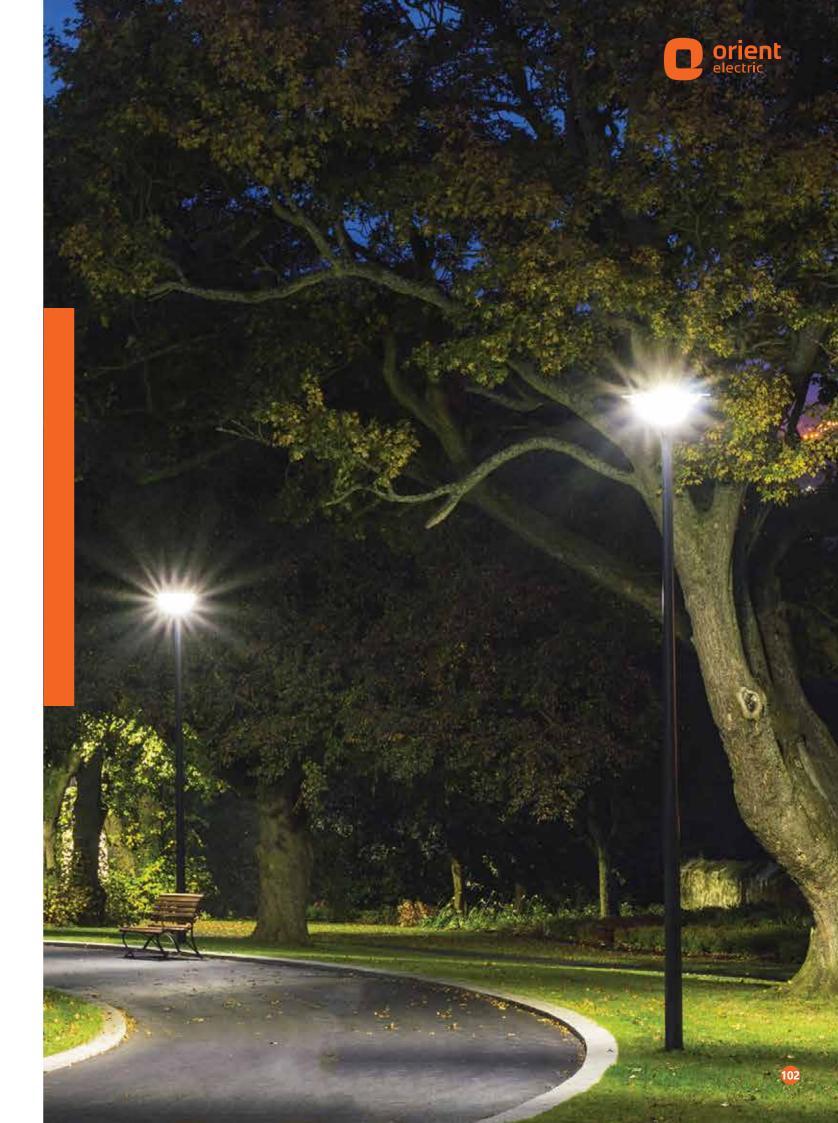


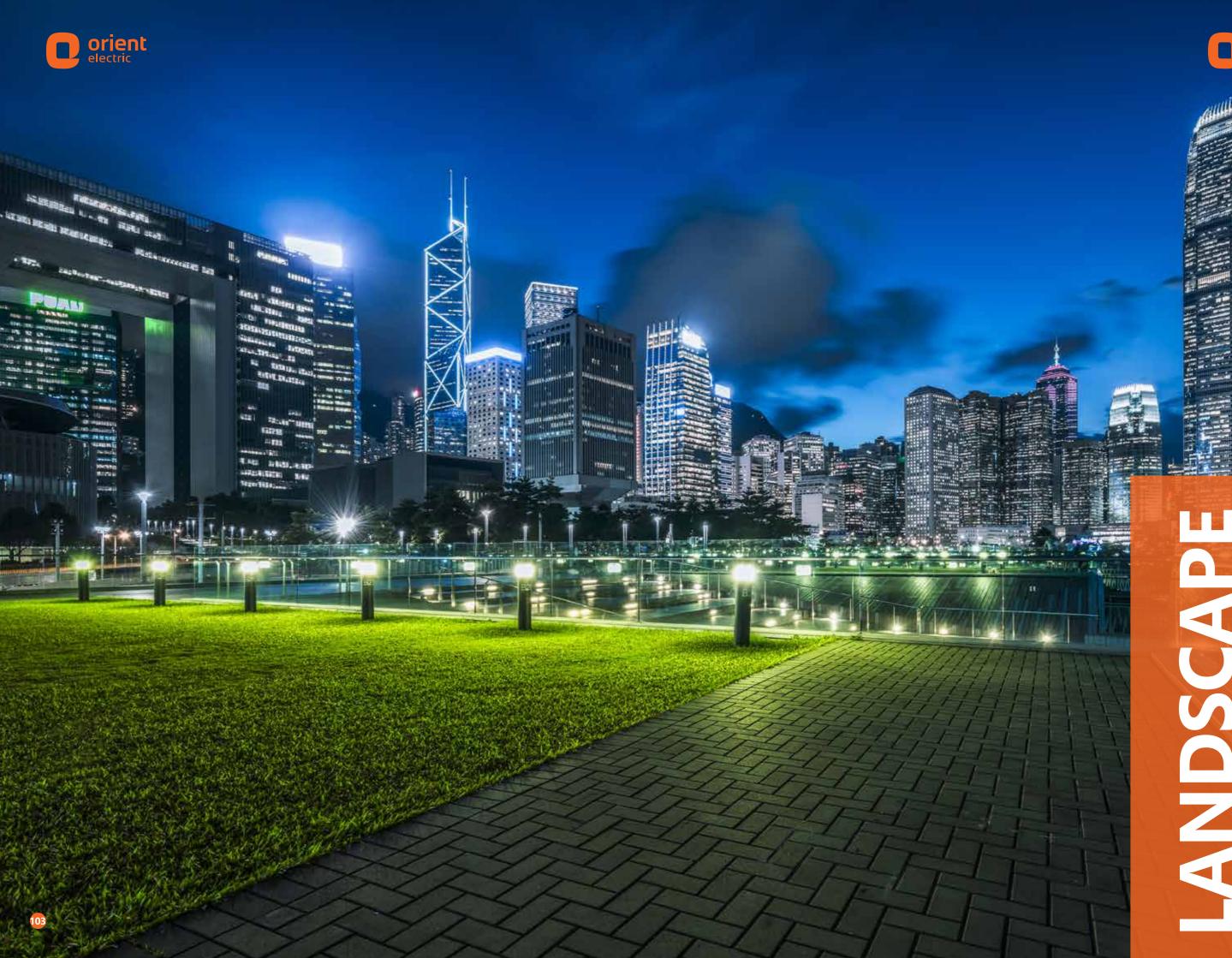


# **RECOMMENDED USAGE**

Parks and Garden Lighting • Pathway Lighting

Model No.	Wattage (W)	Solar Panel (W)	Battery Capacity (AH)	Autonomy	CRI	Beam Angle	
LSPT-25-C	25	25	24	8 Hours	≥70	≥120°	











# **SPIKE LIGHT**

Energy-saving, stylish LED spike light luminaires with high-efficacy; suitable for highlighting architectural & ornamental planter area lighting.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Aluminium alloy pressure die-casted housing for better heat dissipation and aesthetic appeal. The fixture is epoxy powder-coated with smooth finish.

# **Optics**

Clear diffuser is used for effective distribution of light

# Mounting

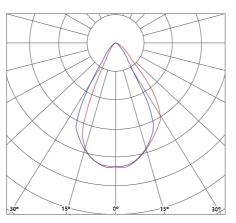
In-ground, spike-mounted.

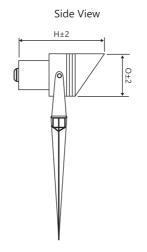
# **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection** Up to 2 KV (internal)

65





# **RECOMMENDED USAGE**

• Parks and Gardens • Residential Areas • Squares and Plazas

# **TECHNICAL DETAILS**

System	Rated	Rated	Power	Dimensions (in mm)		
Wattage	ССТ	CNI	Voltage	Factor	0	H*
3W	3000K	≥70	240V AC	-	72	85
6W	3000K	≥70	240V AC	-	72	85
9W	3000K	≥70	240V AC	-	80	105
12W	3000K	≥70	240V AC	-	75	150
	Wattage 3W 6W 9W	Wattage         CCT           3W         3000K           6W         3000K           9W         3000K	Wattage         CCT         CRI           3W         3000K         ≥70           6W         3000K         ≥70           9W         3000K         ≥70	Wattage         CCT         CRI         Voltage           3W         3000K         ≥70         240V AC           6W         3000K         ≥70         240V AC           9W         3000K         ≥70         240V AC	Wattage         CCT         CRI         Voltage         Factor           3W         3000K         ≥70         240V AC         -           6W         3000K         ≥70         240V AC         -           9W         3000K         ≥70         240V AC         -	Wattage         CCT         CRI         Voltage         Factor         0           3W         3000K         ≥70         240V AC         -         72           6W         3000K         ≥70         240V AC         -         72           9W         3000K         ≥70         240V AC         -         80

# **STEP LIGHT**

Energy-saving, long-life, aesthetically designed decorative rectangular-shaped wall-recessed luminaires for step lighting.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Pressure die-cast aluminium housing for sturdiness, excellent corrosion resistance and efficient thermal management.

# **Optics**

White-finish front cover is designed to provide glare-free downward lighting. High lumen efficacy LED module ensure precise light distribution.

# **Mounting**

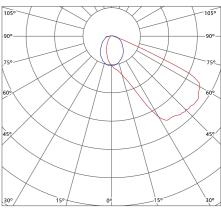
Recessed in wall.

### **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection**

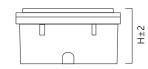
Up to 2 KV (internal)



### Front View



### Side View



# **RECOMMENDED USAGE**

- Supermarket & Malls Staircases Stairways & Walkways Outdoor Staircases
- Wall Lights

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimen	sions (i	n mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	L	w	Н
LLSP-03-W	3W	3000K	≥70	240V AC	-	80	80	42
LLSP-06-W	6W	3000K	≥70	240V AC	-	175	85	42







# **GROUND BURIAL**

Energy-saving, long-life, ground burial light is a floor-embedded luminaire suitable for architectural lighting of outdoor landscapes.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Aluminium die-casting with anodised finish and epoxy powder-coating.

### **Mounting**

Fixed to ground.

# **Optics**

Tempered glass acts as cover.

### **Control Gear**

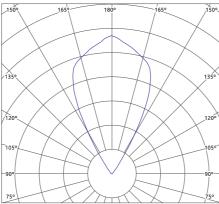
Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# Surge Protection Up to 2 KV (Internal)



67





Front View



Side View



# **RECOMMENDED USAGE**

• Hotels • Shop • Restaurants • Shopping Malls • Showrooms • Outdoor Landscapes

# **TECHNICAL DETAILS**

Model No.	System Rated		CRI	Rated	Power	Dimensions (in mm)	
	Wattage	ССТ		Voltage	Factor	0	н
LLGB-15-W	15W	3000K	≥70	240V AC	≥0.9	150	94

CCT's are available in Cool white, Neutral white & Warm white.

# **CRYSTAL BOLLARD**

LED bollard light IP65 having a cylindrical body placed on top. Ideal for architectural outdoor lighting, typically giving off light from the sides, suitable to illuminate walkways, steps or pathways.

# **PRODUCT SPECIFICATIONS**

# Housing

Housing made up of aluminium pipe powder-coated black after phosphochromate treatment with aluminium heat sink for effective thermal management, sturdiness & excellent corrosion resistance.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# Mounting

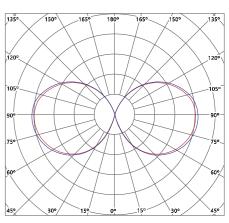
Fixed to ground.

### **Control Gear**

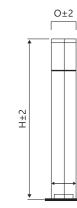
Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection**

Up to 2 KV (internal)



Front View



# **RECOMMENDED USAGE**

• Parks and Gardens • Townships • Squares and Plazas

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimensions (in mm)	
Model No.	Wattage	ССТ	CNI	Voltage	Factor	0	H**
LLCBL-10-W	10W	3000K	≥70	240V AC	≥0.9	75	600
LLCBL-10-W-B	10W	3000K	≥70	240V AC	≥0.9	75	800







# **STEP BOLLARD**

Energy-saving, long-life, aesthetically designed aluminium landscape luminaires for diffused lighting with high-power LED as light source.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Housing made up of aluminium pipe powder-coated black after phosphochromate treatment with aluminium heat sink for effective thermal management, sturdiness & excellent corrosion resistance.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

Fixed to Ground.

### Accessories

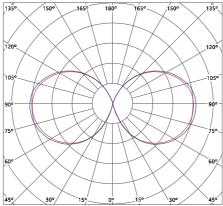
Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

# **Surge Protection**

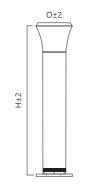
Up to 2 KV (internal)







Front View



# **OYSTER BOLLARD**

LED bollard light IP65 aesthetically designed landscape luminaire for diffused lighting. Suitable for architectural outdoor lighting typically giving off light from all sides. Best suitable to illuminate walkways, steps or pathways.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed spun aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Two nos. aluminum arms are provided to support the housing. Powder coated black after phosphochromate treatment.

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

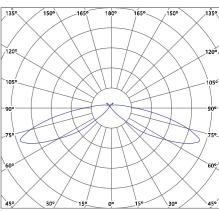
Fixed to ground.

# **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

# Surge Protection Upto 2 KV (Internal)





Front View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimensior	ns (in mm)
Widdel No.	Wattage	ССТ	CKI	Voltage	Factor	0	н
LLOBL-10-W	10W	3000K	≥70	240V AC	≥0.9	100	600
LLOBL-10-W-B	10W	3000K	≥70	240V AC	≥0.9	100	800

CCT's are available in Cool white, Neutral white & Warm white.

# **RECOMMENDED USAGE**

• Parks and gardens • Townships • Squares and Plazas

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimension	ns (in mm)
Model No.	Wattage	ССТ	CNI	Voltage	Factor	0	Н
LLSBL-10-W	10W	3000K	≥70	240V AC	≥0.9	100	610
LLSBL-10-W-B	10W	3000K	≥70	240V AC	≥0.9	100	800







# **GEM BOLLARD**

LED bollard light IP65 having a cylindrical body with LED under PC Lens placed on top. Ideal for architectural outdoor lighting suitable to illuminate walkways, steps or pathways.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. MS base plate are provided to support the housing. Powder coated black after phosphochromate treatment.

# **Optics**

High lumen efficacy LED module with SMD LED package mounted with PC lens to ensure better uniformity of light distribution.

# Mounting

Ground Mounting.

### **Control Gear**

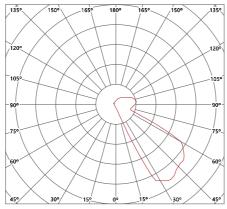
Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

# **Surge Protection**

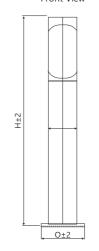
Upto 2 KV (Internal)

65





Front View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dimensions (in mm)	
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	н
LLGBL-10-C	10W	5700K	≥70	240V AC	≥0.9	90	600
LLGBL-10-C-B	10W	5700K	≥70	240V AC	≥0.9	90	800

CCT's are available in Cool white, Neutral white & Warm white.

# **RING BOLLARD**

LED bollard light IP65 having circular profile placed on top. Ideal for architectural outdoor lighting suitable to illuminating Gardens and walkways.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. MS base plate are provided to support the housing. Powder coated black after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

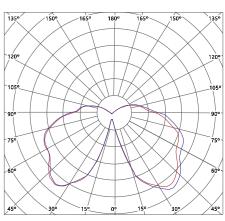
# Mounting

Ground Mounting.

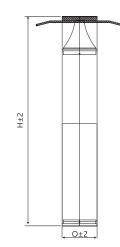
### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

# Surge Protection Upto 2 KV (Internal)



Front View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	Rated CRI		Power	Dimensions (in mm)	
Wodel No.	Wattage	ССТ	CKI	Voltage	Factor	0	н
LLRBL-15-C	15W	5700K	≥70	240V AC	≥0.9	100	600
LLRBL-15-C-B	15W	5700K	≥70	240V AC	≥0.9	100	800





# **TOPAZ BOLLARD**

LED bollard light IP65 aesthetically designed aluminium housing landscape luminaire for sturdiness with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Elegantly designed aluminum (sheet) housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Die-cast aluminum base provided to support the housing. Powder coated grey after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

Ground Mounting.

### **Control Gear**

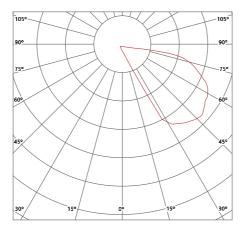
Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

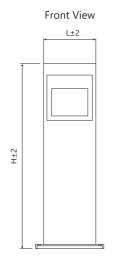
# **Surge Protection**

Upto 2 KV(Internal)

### IΡ

65





# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System Wattage	Rated CCT	CRI	Rated Voltage	Power Factor	Dimensior LxW	ns (in mm) H
LLTBL-20-C	20W	5700K	≥70	240V AC	≥0.9	230x120	815

CCT's are available in Cool white, Neutral white & Warm white.

# **ASTER**

Energy saving, long life aesthetically designed die-cast aluminium landscape luminaire with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed spun aluminum housing and high grade aluminium heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. MS base provided to support the housing. Powder coated black after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# Mounting

Pole Mounting.

### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

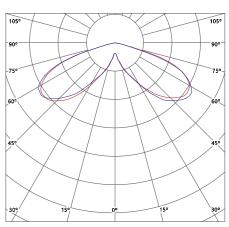
# **Surge Protection**

Upto 3.5 KV(Internal);optional 10KV external SPD

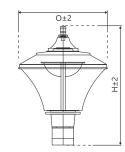
### IF

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Side View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI Rated	Power	Dimensions (in mm)			
Model No.	Wattage	ССТ	CRI	Voltage	Factor	0	Н	Pole OD
LLAS-20-C	20W	5700K	≥70	240V AC	≥0.95	356	500	76
LLAS-30-C	30W	5700K	≥70	240V AC	≥0.95	356	500	76
LLAS-45-C	45W	5700K	≥70	240V AC	≥0.95	356	500	76







# **OPALINE**

LED Post-top IP65 die-cast aluminium spigot for mounting LED driver and spun aluminium canopy which is painted white inside. Epoxy powder-coated matte black finish after phosphochromate treatment.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Die-cast aluminium spigot for mounting LED driver and spun aluminium canopy which is painted white inside. Epoxy powder- coated matte black finish after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

Pole-mounting.

### **Control Gear**

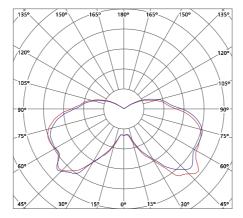
Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

### **Surge Protection**

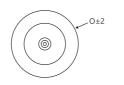
Up to 3.5 KV (internal); optional 10 KV external SPD.



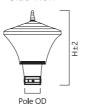
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Top View



Side View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	Rated CRI	Rated	Power	Dimensions (in mm)		
Woder No.	Wattage	ССТ	CNI	Voltage	Factor	0	Н	Pole OD
LLOP-30-C	30W	5700K	≥70	240V AC	≥0.95	456	528	78

CCT's are available in Cool white, Neutral white & Warm white.

# **MERIDIAN**

Energy saving, long life aesthetically designed die-cast aluminium landscape luminaire with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed die-cast aluminum housing and high grade aluminum heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Four nos. die-cast aluminum arms are provided to support the housing. Powder coated black after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

### Mounting

Pole Mounting.

# **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

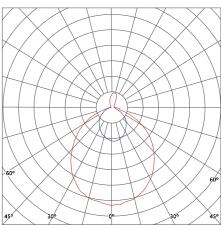
# **Surge Protection**

Upto 3.5 KV (Internal); optional 10KV external SPD

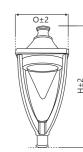
### IΡ

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Side View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated Power		Dime	nsions (ii	n mm)
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	Н	Pole OD
LLMD-30-C	30W	5700K	≥70	240V AC	≥0.95	315x315	695	78
LLMD-45-C	45W	5700K	≥70	240V AC	≥0.95	315x315	695	78







# **CRESTINE**

Energy saving, long life aesthetically designed die-cast aluminium landscape luminaire with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Elegantly designed die-cast aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Four nos. die-cast aluminum arms are provided to support the housing. Powder coated black after phosphochromate treatment.

### **Optic**

Clear Cover is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

Pole Mounting.

### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

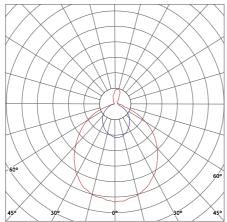
# **Surge Protection**

Upto 3.5 KV(Internal);optional 10KV external SPD

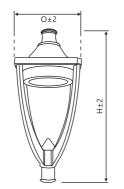


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Side View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System Rated		CRI Rated	Power	Dimensions (in mm)			
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	Н	Pole OD
LLCT-45-C	45W	5700K	≥70	240V AC	≥0.95	400x400	922	78
LLCT-60-C	60W	5700K	≥70	240V AC	≥0.95	400x400	922	78

CCT's are available in Cool white, Neutral white & Warm white.

# **SNOWDROP**

Energy saving, long life aesthetically designed die-cast aluminium landscape luminaire with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed spun aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Two nos. aluminum arms are provided to support the housing. Powder coated black after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

Pole Mounting.

### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

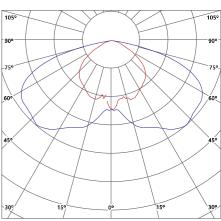
# **Surge Protection**

Upto 3.5 KV(Internal);optional 10KV external SPD

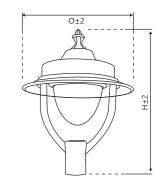
IP

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Side View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated	Power	Dime	ensions (ir	n mm)
Model No.	Wattage	ССТ	CRI	Voltage	Factor	0	Н	Pole OD
LLSD-30-C	30W	5700K	≥70	240V AC	≥0.95	435	610	78
LLSD-45-C	45W	5700K	≥70	240V AC	≥0.95	435	610	78







# **PRISTINE**

Energy-saving, long-life, aesthetically designed die-cast aluminium landscape luminaire with high-power LED as light source.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed die-cast aluminium housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Three nos. die-cast aluminium arms are provided to support the housing. Epoxy powder-coated grey after phosphochromate treatment.

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# **Mounting**

Pole-mounting.

### **Control Gear**

Powered by an integral electronic driver with output Short-Circuit Protection, Surge Protection & other safety tests.

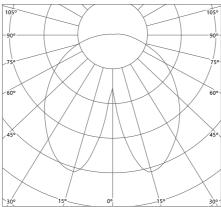
# **Surge Protection**

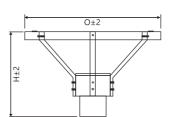
Up to 3.5 KV (Internal); optional 10 KV external SPD



65







Side View

# **ORBIT**

Energy saving, long life aesthetically designed die-cast aluminium landscape luminaire with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# Housing

Elegantly designed spun aluminum housing and heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Two nos. aluminum arms are provided to support the housing. Powder coated black after phosphochromate treatment.

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# Mounting

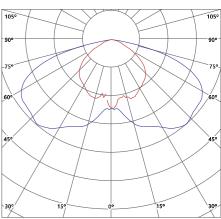
Pole Mounting.

### **Control Gear**

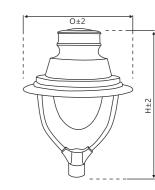
Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

**Surge Protection**Upto 3.5 KV(Internal); optional 10KV external SPD





Side View



# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System	Rated	CRI	Rated Power		Dime	ensions (in	n mm)
Wiodel No.	Wattage	ССТ	CKI	Voltage	Factor	0	Н	Pole OD
LLOT-60-C	60W	5700K	≥70	240V AC	>0.95	625	910	75
LLOT-90-C	90W	5700K	≥70	240V AC	>0.95	625	910	75

CCT's are available in Cool white, Neutral white & Warm white.

# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# **TECHNICAL DETAILS**

Model No.	System Rated		CRI	Rated	Power	Dime	Dimensions (in mm)	
Model No.	Wattage	ССТ	CKI	Voltage	Factor	0	н	Pole OD
LLPT-45-C	45W	5700K	≥70	240V AC	≥0.95	400	263	78
LLPT-60-C	60W	5700K	≥70	240V AC	≥0.95	585	365	78





# **COMET**

Energy saving, long life aesthetically designed die-cast aluminium landscape luminaire with high power LED as light source.

# **PRODUCT SPECIFICATIONS**

# **Housing**

Elegantly designed spun aluminum housing and high grade aluminium heat sink for efficient thermal management, sturdiness and excellent corrosion resistance. Three nos. MS arms are provided to support the housing. Powder coated Black after phosphochromate treatment.

# **Optics**

Opal diffuser is used for glare-free uniform light distribution. High efficiency and long-life LEDs with high lumen efficacies are used.

# Mounting

Pole Mounting.

### **Control Gear**

Powered by an integral electronic driver with output short-circuit protection, surge protection & other safety tests.

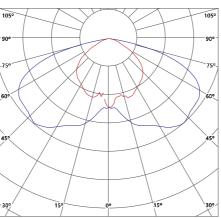
# **Surge Protection**

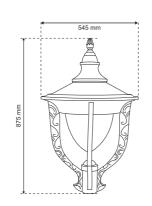
Upto 3.5 KV(Internal);optional 10KV external SPD

### IΡ

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# **RECOMMENDED USAGE**

• Parks and Garden Lighting • Pathway Lighting • Street Lanterns

# TECHNICAL DETAILS

Model No.	System System		System Rated CRI	Rated	Power	Dime	nensions (in mm)	
Model No.	Wattage	ССТ	CNI	Voltage	Factor	0	н	Pole OD
LLCO-60-C	60W	5700K	≥70	240V AC	≥0.95	545	875	60
LLCO-125-C	125W	5700K	≥70	240V AC	≥0.95	545	875	60







# CCMS-CENTRALISED CONTROL & MONITORING SYSTEM CCMS

Street lighting system controller is a device that automates the entire process, leading to significant energy-Saving and convenience.

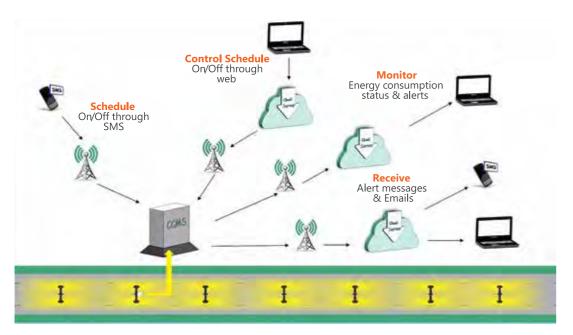
It provides the capability for remote controlling and monitoring of the street lights, using GPRS technology. The system is fully programmable, and controlled from the controller via o User-friendly web application.

# **PRODUCT DESCRIPTION**

- CCMS consists of two components:
- Gateway
- Web application

# **FUNCTIONING**

Turning lights on & off Sending meter data to web application



# **ADVANTAGE**

Easy to monitor existing infrastructure of street lighting from the desktop instead of employing dedicated personnel. Changes the status of lights (ON/OFF) from a remote location.

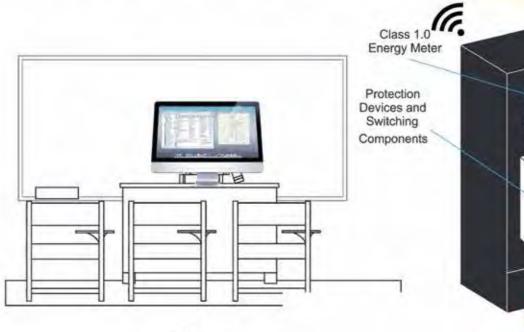
Connects Switch nodes to the web without any additional wiring cost.

Customization can be done to generate custom reports and interfacing new sensors.

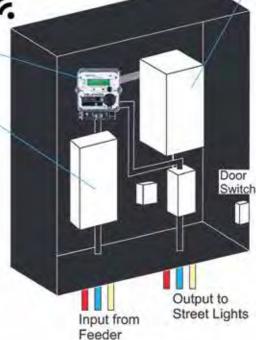
Saves energy by turning lights On and OFF as required, instead of manual intervention.

Provides a safe environment for commuters pedestrians and women travelling at late hours by turning on lights automatically at dusk.





Office Monitor, Control and Schedule operations carried out from here



3 Phase CCMS Unit





# **Glossary**

### **AH (Ampere hour)**

It is the amount of energy charge in a battery that will allow one ampere of current to flow for one hour. An ampere is a unit of measure of the rate of electron flow or current in an electrical conductor. One ampere of current represents one coulomb of electrical charge moving past a specific point in one second.

### **Autonomy**

The term days of autonomy means the number of days a battery bank can provide the appliances you have connected to the system without a recharged by the solar panels. The system's location is important to determine how the number of "no sun days" which is an important variable to figure out the autonomy.

### **Average illuminance**

Illuminance averaged over a specified surface with respect to area.

Unit: lux (lx) = lm/m2

Symbol: Eavg

### **Battery**

A container consisting of one or more cells, in which chemical energy is converted into electricity and used as a source of power.

### **Beam Angle**

The beam angle of a lamp is the angle at which the light is distributed or emitted.

### Brightness

Attribute of visual sensation according to which an area appears to emit more or less light. Brightness according to the definition is also an attribute of color.

### Candela

The standard unit of light intensity, abbreviated to "CD", which is one lumen per steradian.

CCT (Correlated color Temperature)

CCT or Correlated Color Temperature is a number, expressed in degrees Kelvin (K) which represents the color of a light source, it is equivalent to the color emitted by a blackbody radiator when heated to that temperature. The CCT value indicates the apparent «warmth» or «coolness» of the light. Common CCTs used for lighting applications are 3000K, 4000K, 5700K & 6500K.

### **Color rendering**

Ability of a light source to render colors naturally, without distorting the hues seen under a full spectrum radiator (like daylight).

CRI (Color Rendering Index)

The color rendering index (CRI) ranges from 0 to 100. It is a quantitative measure of the ability of a light source to reveal the colors of various objects faithfully in comparison with Sunlight (CRI=100)

CRI 90 –100: Retail, Design work spaces, Inspection areas

CRI 70 –90 : Offices, Residences, café, Schools, Hospitals

CRI below 70: Industrial, Security, Store, Streets, Yards where color fidelity is not so important

### **DALI**

Digital Addressable Lighting Interface, a standardized communication interface to regulate lighting levels and to switch electronic on and off.

### Diffuse

To scatter light using diffusion material. Generally, something made of diffusion material that softens the quality of the light passing through it to produce a more flattering light with less noticeable shadows.

# **Glossary**

### **Discomfort glare**

Glare that causes discomfort without necessarily impairing vision.

### **Electronic LED Driver**

An LED driver is a self-contained power supply which regulates the power required for an LED or array of LEDs. The light emitting diodes are low energy, lighting devices with a long lifespan and low energy consumption, hence the requirement for specialized power supplies.

### FC

Abbreviation for Flicker Control.

Flicker Control is the technology which reduces the harmful invisible flicker present in the LED lighting source which causes eyestrain, eye-fatigue and many other health complications.

### Glare

Glare refers to difficulty seeing or a reduction of visibility in the presence of a bright light

### **Heat Sink**

Heat sinks used with LEDs are designed to absorb and disperse excess heat away from the LED diode and into the heat sink. Passive or active air then circulates around the heat sink to help cool it.

### **Horizontal Illuminance**

Illuminance incident on the horizontal surface.

Unit: lux (lx) = lm/m2

### **IK Rating**

IK Rating or "Impact Protection" (the K is from Kinetic) to differentiate from IP rating) is defined in international standards and indicates the level of resistance an electrical enclosure provides against mechanical impact.

### Illuminance

The luminous flux density at the surface being lit. The Illuminance in the full summer sun is approx. 100 000 lux. Recommended Illuminances for work places range from 200 lux for rough work to 2000 lux for detailed or critical work.

Unit: lux (lx) = lm/m2

Symbol: E

### **Input Current**

LEDs emit light when an input electric current passes through them.

### **IP (Ingress Protection)**

IEC standard 60529, sometimes interpreted as International Protection Code, classifies and rates the degree of protection provided by mechanical casings and electrical enclosures against intrusion, dust, accidental contact, and water.

### LED

Light Emitting Diode used as a light source. Solid-state semiconductor device that converts electrical energy directly into light of a specific color or white light.

### **Light output ratio (LOR)**

Ratio of the total light emitted by a luminaire to the total light output of the lamps it contains measured at standard operating conditions.

### **Lumen depreciation**

The decline in the light output of a light source during its lifetime.





# **Glossary**

### Luminaire

Appliance that distributes, filters or transforms the light given by a light source (LED), and which contains all the necessary elements for fixing and protecting the light source(s) and facilitates their power supply and operating conditions.

### Luminance

The light intensity per square meter of apparent area of the light source, luminaire or illuminated surface. Where surfaces are lit, the luminance depends upon both lighting level and reflection characteristics of the luminous surface.

Unit: cd/m2

Symbol: L

### **Luminous efficacy**

The quantity of light that a light source emits per unit of electrical energy consumed. Notice that the luminous efficacy can be specified for a light source or for a lighting system.

The luminous efficacy of a system is lower than that of the light source.

Unit: Im/W

### **Luminous flux**

The total light output emitted by a light source. Also the total light falling on a surface. The light output of a light source is measured in lumen.

Unit: lumen

### **Luminous intensity**

The luminous flux in a given direction, e.g. from a floodlight or projector.

Unit: candela (cd) = one lumen per steradian

Symbol: I

### Lux

The standard unit of illuminance of a surface being lit. One lux equals one lumen per square meter.

### **Maintenance factor**

Correction factor used in lighting design to compensate for the rate of lumen depreciation, caused by lamp ageing (lumen depreciation and lamp failure) and dirt accumulation (luminaire and environment). It determines the maintenance cycle needed to ensure that illuminance does not fall below the maintained value.

### Nadii

A point directly below an observer or object. In lighting, the point vertically below a luminaire's lamp source center with the luminaire mounted in standard position with zero tilt or roll.

### Optics

The behaviour of light, or the properties of transmission and deflection of light.

### **Photovoltaics**

Photovoltaics are best known as a method for generating electric power by using solar cells to convert energy from the sun into a flow of electrons by the photovoltaic effect

### Power factor

Ratio of the circuit power in watts over the product of the root-mean square values of voltage and current. For sinusoidal waveforms, it is equal to the cosine of the angle of phase difference between voltage and current. Power factor close to unity i.e 1 is considered an ideal condition.

### **RGB**

Red, green and blue, used to specify the colors of a light source.

# **Glossary**

### **Room Reflection Factor**

The ratio of the total amount of radiation, as of light, reflected by a surface to the total amount of radiation incident on the surface.

### **SPD** (Surge protection device)

It will act as a voltage controlled switch which will remain passive till system voltage is lower than its activation voltage. When the system (input voltage in case of LED street lights) increases SPDs activation voltage, SPD will divert the surge energy protecting the luminaire.

### **THD (Total harmonic distortion)**

It is a measurement of the harmonic distortion present in a signal and is defined as the ratio of the sum of the powers of all harmonic components to the power of the fundamental frequency.

### **Thermal Management**

At least 70% of the energy put into an LED during operation is converted to heat rather than visible light so, in order to keep the LED junction temperature within its safe operating temperature, this heat needs to be removed quickly. LEDs that operate consistently above their recommended junction temperature run into serious issues. Thus Thermal management by creating heat sinks is essential to keep LEDs cool for harnessing their full potential and ensuring they work efficiently over a long life.

### **Transverse uniformity**

Transverse uniformity is measured across the road along a line passing through the nadir point. It is also defined as the ratio of minimum illumination to the maximum illumination (Emin/Emax).

### **Uniformity ratio**

Ratio of the minimum over the average illuminance for a specified area (Emin/Eavg).

### **Vertical illuminance**

Illuminance incident on the vertical surface.

Unit: lux (lx) = lm/m2

### Voltage

Voltage is what makes electric charges move. It is the <push> that causes charges to move in a wire or other electrical conductor.

### Wattage

A unit of measurement for heat or electrical power.

NOTES		NOTES



