LOW-CARBON
诺可®智造

LOW-CARBON

Retail&Commercial Project Specialist

2025

LED Product Catalog Ver02

LOW-CARBON
诺可®智造

Company Introduction / 公司简介

Retail Lighting is a critical factor in creating a unique shopping environment: one that attracts customers and pulls them in, creates a store personality while reflecting brand and identity. Successful retail lighting does not come in a one-size-fits-all package; it is a strategic blend of color, contrast, control, and energy efficiency.

More than application knowledge and experience, it requires proper application and lighting techniques utilizing the latest lamp and luminaire technology. A customer that is excited about their shopping experience will stay longer, spend more money, and not only be more likely to return, but enjoy coming back.

Low-Carbon Lighting, Founded in 2010, with more than 15 years experience of researching and producing LED luminares for retail stores lighting,We will guide you through the retail lighting process and be your lighting resource. Uniquely qualified to fulfill your retail store lighting needs,

Low-Carbon manufactures a variety of lighting systems including LED Track Spot Lights, LED Downlights, LED Track Linear Lights, and LED Grid Lights that keep stores fresh and up-todate. It takes time and effort to ensure that your investment in lighting will be returned to the bottom line, and it's a partnership we'll be involved with every step of the way.

Production Base

Production Line

Quality Control

R&D Service

Aging Testing

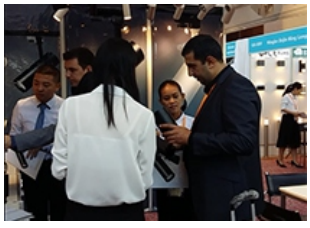
Certification

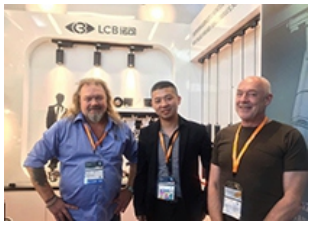
Low-carbon product performance are stable, patents are complete, safety and quality are guaranteed. All commercial LED product are passed by CE, FCC, RoHS and other domestic & overseas resource certifications.

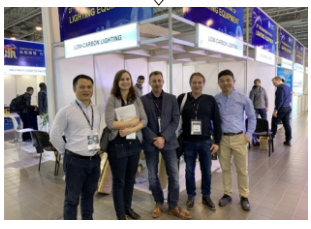
Market Activity

From Frankfurt to Dubai, we engage clients face-to-face.

Low-carbon takes an active role in key international lighting exhibitions, with a focus on long-term partnerships rather than just product displays.


2016 HK(Aut) Lighting Fair


2017 HK(Aut) Lighting Fair


2021 Poland Lighting Fair

2022 Matelec Fair(Spain)

2023 HK(Aut) Lighting Fair

2024 HK(Aut) Lighting Fair

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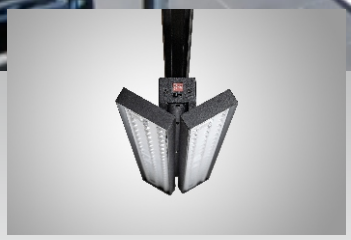
√ Click ▲ at the bottom of the page to return content table.

TRACK PANEL



Led Track Panel Light

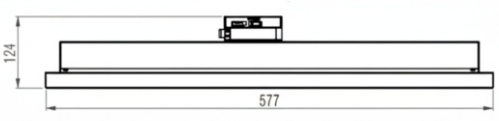
The LL1615 Series is a high-output dual-panel LED track linear light designed for large retail, supermarket, and industrial commercial applications. Each side panel is independently controllable, offering full lighting flexibility.

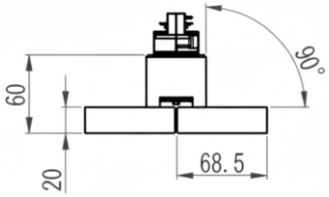
With adjustable wattage (40W–70W), wide beam optics, and ultra-high efficiency,it's the go-to solution for projects that demand precision and performance.

Dimensions

√ Dimension:L577xW140xH124mm

√ 355° Rotation plus 90° tilt





opt. 0-10V DALI BLE

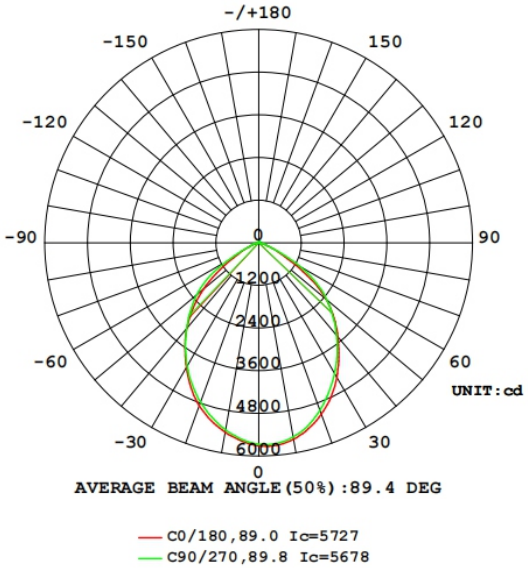
CE RoHS

40~70w（DIP）Max11000lm

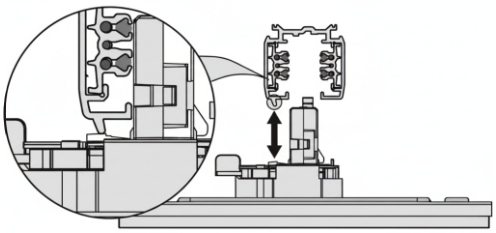
LL1615 TRACK PANEL

Model num	LC-LL1615
Power consumption	40W/50W/60/70W(By DIP Switch)
Input voltage	220V~240V AC 50~60Hz
Dimension	L577xW140xH124mm
Adapter	4 Wire (3 Phase)
Luminous flux	Max 11000lm
CRI	Ra82
LEDs	SMD2835
Beam Angle	60deg/90deg
Finishing	Black/White
Tilting Angle	360deg+90deg
Warranty	5 Years

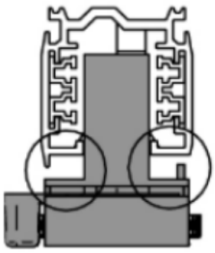
Light distribution curve



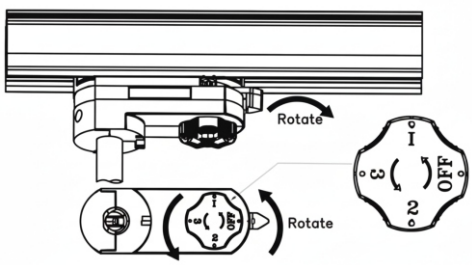
Installation Guide



1.Mount the lamp on the 3-phase track rail system.

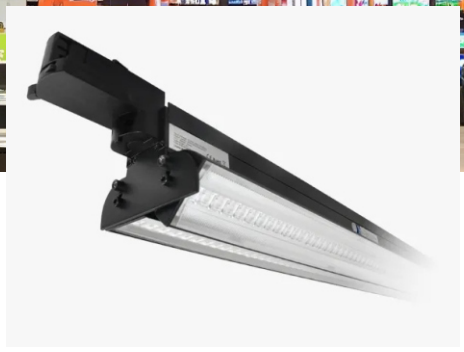


2.Install the track light in the correct direction



3.Set the phase selector to the appropriate position, 1, 2, or 3.And turn the selector to OF F,to remove the lamp from track. .

LINEAR TRACK



Led Linear Track-LL1613

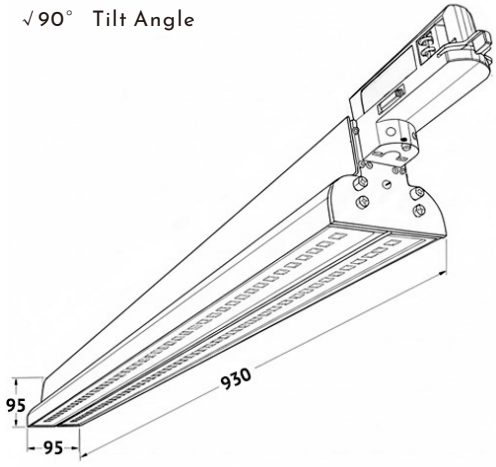
Tailored for large retail, supermarket, and industrial commercial applications, the LL1613 Series is a high-output LED track linear light. Its two side tube offer independent control, enabling full lighting flexibility.

With adjustable wattage (60W-90W), wide beam optics, ultra-high efficiency, it is the go-to solution for projects demanding precision and performance.

Dimensions

√ Dimension:L930×W95×H95mm

√ 90° Tilt Angle



opt. 0-10V DALI BLE

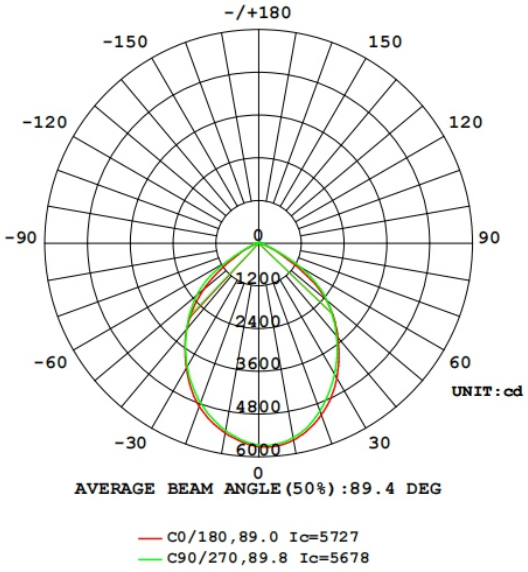
CE RoHS

60~90w（DIP）Max13600lm

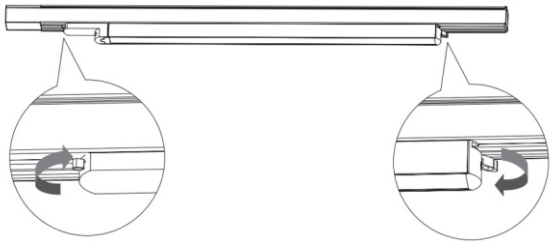
LI1613 LINEAR TRACK

Model num	LC-LL1613
Power consumption	60W~90W(By DIP Switch)
Input voltage	220V~240V AC 50~60Hz
Dimension	L930×W95×H95mm
Adapter	4 Wire (3 Phase)
Luminous flux	Max 13600lm
CRI	Ra82
LEDs	SMD2835
Beam Angle	60deg/90deg
Finishing	Black/White/Silver
Tilting Angle	90deg
Warranty	5 Years

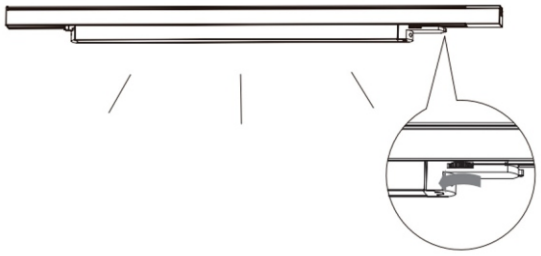
Light distribution curve



Installation Guide



1.Mount the lamp on the 3-phase track rail system,Rotate the clasp to ensure the light has been fixed with the track well.



2.Adjust the rotary switch to the preferred circuit, turn on the power.

Ultra Slim Linear Track

Tailored for commercial spaces like shops, showrooms, and offices, ultra-slim Led linear light. Its 8mm thickness (excluding driver) delivers a sleek look, blending seamlessly with various decors.

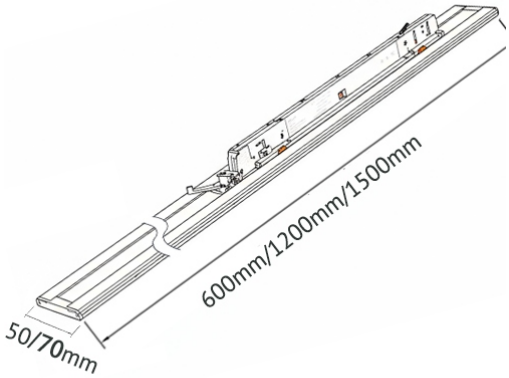
Boasting 170lm/W high efficacy, CRI over 80, 2ft-5ft length options, and up to 10000lm output, plus a 5-year warranty, it's ideal for style and performance-focused projects.

Finishing: Black ● White ○

Dimensions

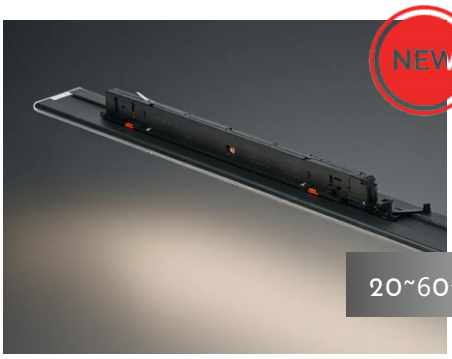
√ Dimension:L60/120/150*W5/7*H0.8cm

√ Ultra Slim Design:8mm Thickness



opt. 0-10V DALI BLE

CE RoHS



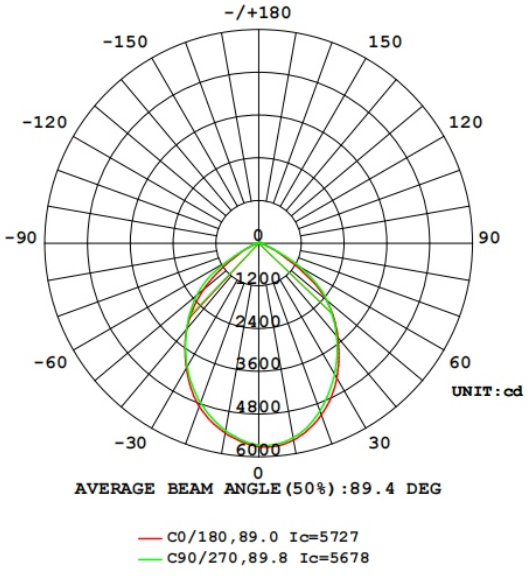
20~60w（DIP）Max9500lm

Model No.	Power	Size (mm)	Track	CRI	Lumen	Angle
LC-LL1616-2	20W	L600*W70mm	3 Phase	>Ra80	3300lm	90°
LC-LL1616-4	40W	L1200*W70mm	3 Phase	>Ra80	6500lm	90°
LC-LL1616-5	60W	L1500*W70mm	3 Phase	>Ra80	9500lm	90°

20~40w（DIP）Max6600lm

Model No.	Power	Size (mm)	Track	CRI	Lumen	Angle
LC-LL1617-2	20W	L600*W50mm	3 Phase	>Ra80	3300lm	30/90°
LC-LL1617-4	36W	L1200*W50mm	3 Phase	>Ra80	5800lm	30/90°
LC-LL1617-5	40W	L1500*W50mm	3 Phase	>Ra80	6600lm	30/90°

Light distribution curve



Linkable Led Linear Light

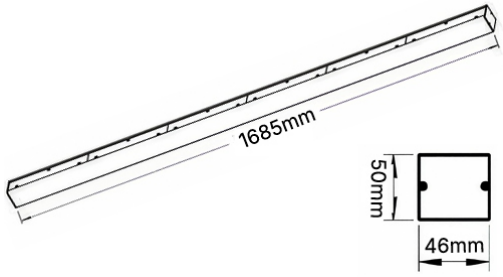
Low-Carbon LED Linear Light is ideal for shopping malls, convenience stores, boutiques and other commercial spaces needing efficient, flexible lighting.

High energy efficiency: Luminous efficacy reaches up to 170lm/W.Flexible installation: Linkable design supports up to 10 units connected, fitting various space sizes. Its adaptive lighting also meets diverse retail needs, making it practical and versatile.

Dimensions

√ Dimension:L1685×W46×H50mm

√ Linkable,Max.Run:10 Units



opt. 0-10V DALI BLE

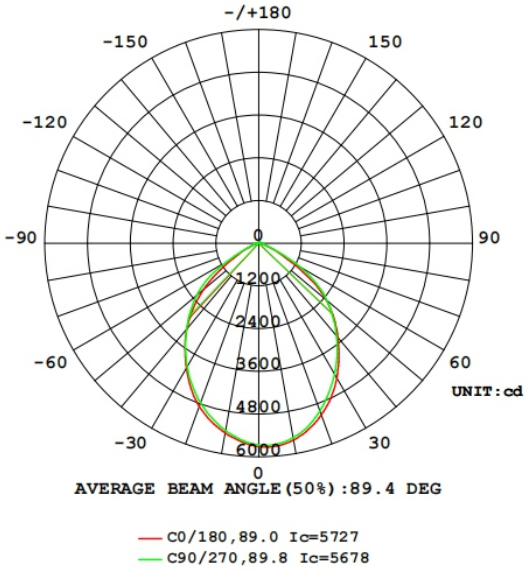
CE RoHS

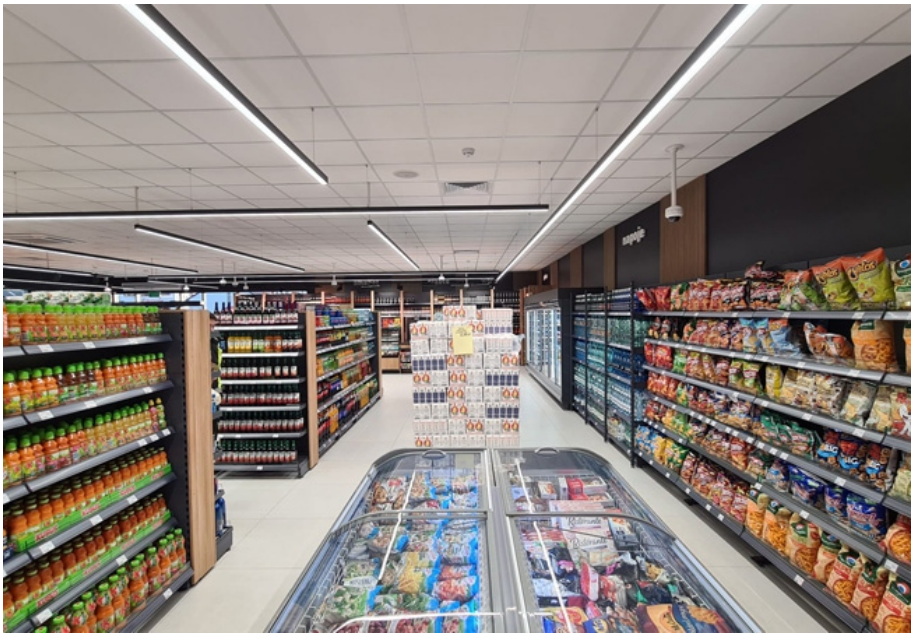
Linkable,Max. Run: 10 units

Linkable linear Light

Model num	LC-LL1614
Power consumption	20W~40W(By DIP Switch)
Input voltage	220V~240V AC 50~60Hz
Dimension	L1685×W46×H50mm
Installation	Suspended/Surface Mounted
Luminous flux	Max 6600lm
CRI	Ra82
LEDs	SMD2835
Beam Angle	60deg/90deg
Finishing	Black/White
Power Factor	>0.9
Warranty	5 Years

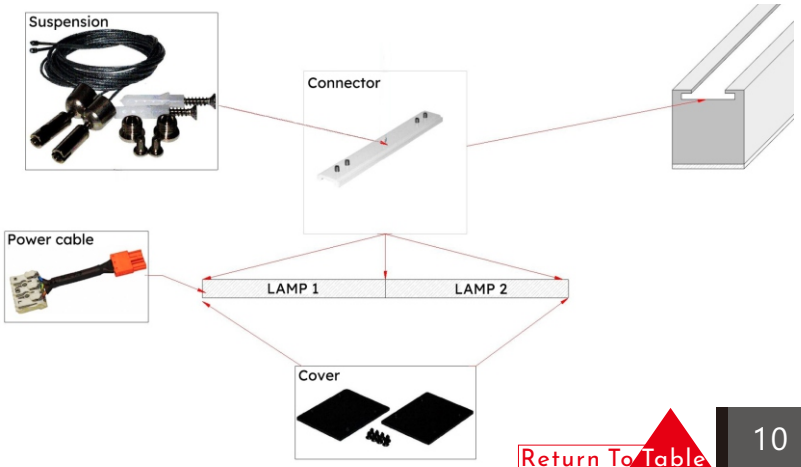
Light distribution curve





Exploded view

Acessories



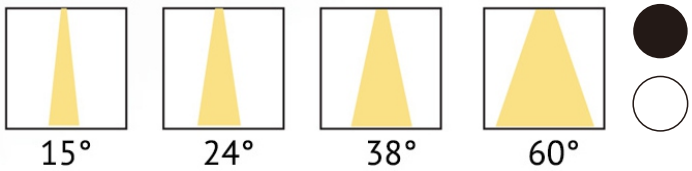
TRACK SPOT

Led Track Spot Light

Low-carbon track light is designed for retail, exhibition, and commercial display spaces, boasting core strengths of high luminous efficacy and excellent color rendering for vivid illumination.

Up to 145lm/W while maintaining >Ra90, ensuring true-to-life color reproduction. 5-year warranty. Featuring maximum power of 32W and up to 4500lm, it's a perfect selection for spaces requiring bright, accurate, and reliable lighting.

Beam Angle



opt. 0-10V DALI BLE

CE RoHS

Finishing: Black White

Optional Function

√ Triac/Dali/0~10v dimming

Invisible in the track

Dali/cct dimmimg

Angle:15° /24° /38° /60°

Model No.	Power	Size (mm)	Lumen
LC-TR0102-15W	15W	Ø60 * H130 mm	2050lm
LC-TR0102-25W	25W	Ø75 * H161 mm	3550lm
LC-TR0102-32W	32W	Ø85 *H160 mm	4500lm

Angle:15° /24° /38° /60°

Model No.	Power	Size (mm)	Lumen
LC-TR0103-20W	20W	Ø72*H123mm	2850lm
LC-TR0103-25W	25W	Ø80*H131mm	3550lm
LC-TR0103-32W	32W	Ø90*H141mm	4500lm

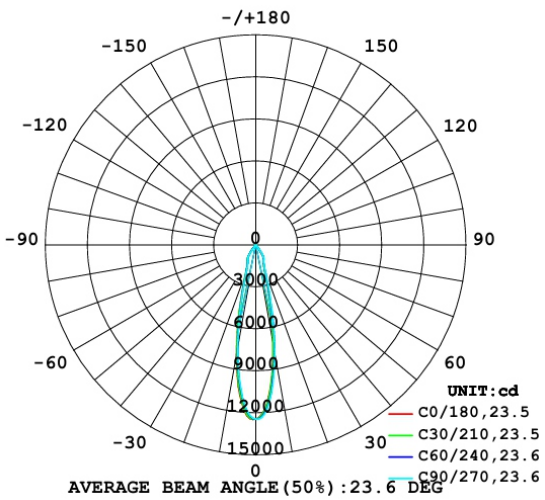
Angle:15° /24° /38° /60°

Model No.	Power	Size (mm)	Lumen
LC-6500A-15W	15W	Ø71*H85mm	2050lm
LC-6501A-25W	25W	Ø82*H100mm	3550lm
LC-6502A-32W	32W	Ø100*H105mm	4500lm

Zoomable:15° -55°

Model No.	Power	Size (mm)	Lumen
LC-ZT01-15W	15W	D65*H98mm	1450lm
LC-ZT01-20W	20W	D75*H120mm	2000lm
LC-ZT01-25W	25W	D85*H120mm	2400lm

Light distribution curve



Anti-Glare Downlight Led

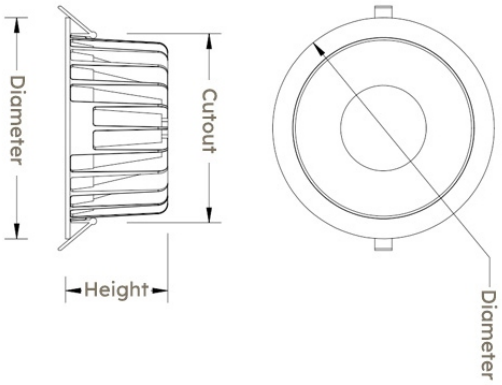
The Anti-Glare LED Downlight Series is tailored for residential, commercial, and hospitality spaces, with its core advantage of minimizing glare for comfortable eye protection.

It offers flexible wattage options from 10W to 40W and size variants ranging from 3 inches to 8 inches. Delivering stable brightness and energy efficiency, it's an ideal choice for spaces needing soft, non-dazzling illumination.

Dimensions

√ 3/4/5/6/8/ inch

√ 38°/60° Beam Angle



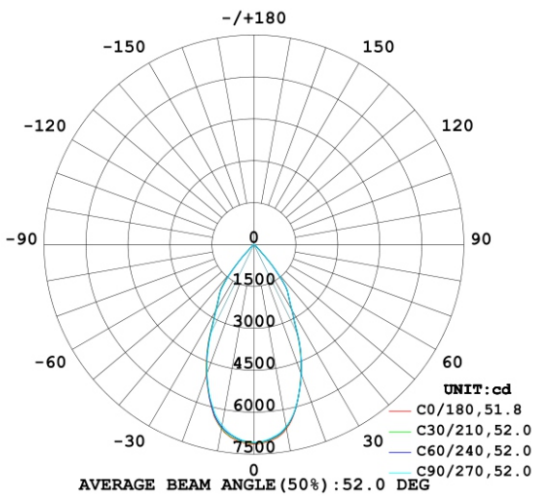
opt. 0-10V DALI BLE

CE RoHS

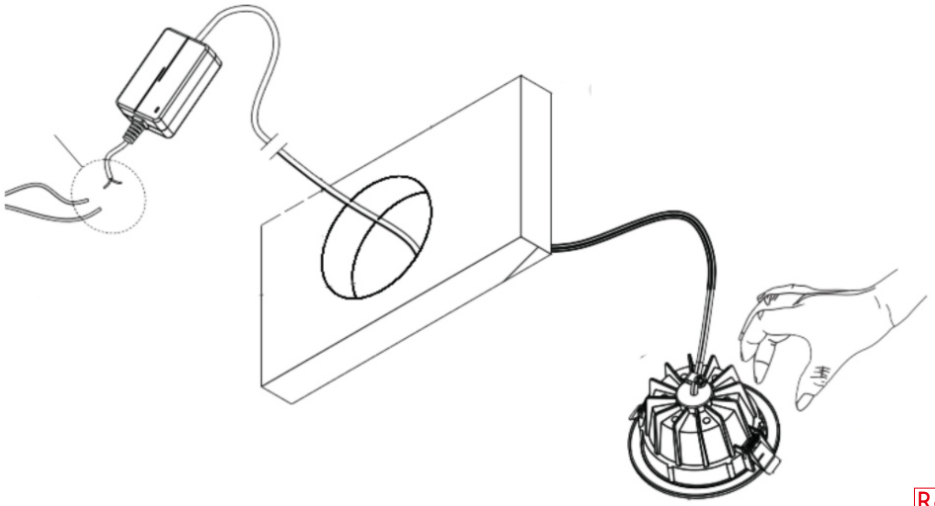
10~30w Max 4650lm Output

Model Num	Power	Size (mm)	Cut-out	CRI	Lumen	Angle
LC-DL01-10W	10W	Ø115×H56	Ø105mm	⩾90	1500lm	38° / 60°
LC-DL01-15W	15W	Ø136×H70	Ø125mm	⩾90	2400lm	38° / 60°
LC-DL01-20W	20W	Ø162×H80	Ø145mm	⩾90	3150lm	38° / 60°
LC-DL01-25W	25W	Ø195×H95	Ø175mm	⩾90	3850lm	38° / 60°
LC-DL01-30W	30W	Ø220×H100	Ø200mm	⩾90	4650lm	38° / 60°

Light distribution curve



Installation Guide



Tiltable Downlight Led

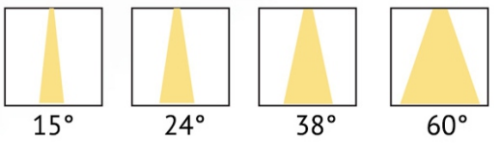
Low-carbon titable downlight is designed for commercial lighting, hotels, clothing and boutique stores, boasting core strengths of high luminous efficacy up to 145lm/w and color rendering index over Ra90.

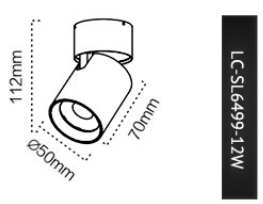
It provides flexible wattage selections from 10W to 32W. Offering excellent light quality and vivid color reproduction, it's a perfect option for spaces requiring bright, true-to-life illumination.90deg tilting angle.

Finishing: Black ● White ○

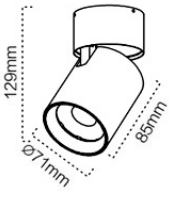
Beam Angle

√15°/24°/38°/60°,355° rotation plus 90° tilt

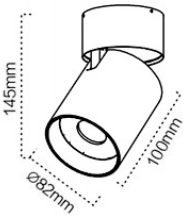




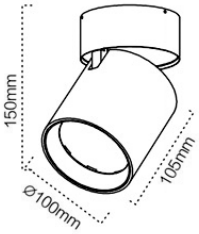
LC-SL6499-12W



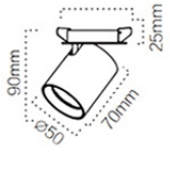
LC-SL6500-20W



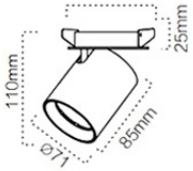
LC-SL6501-30W



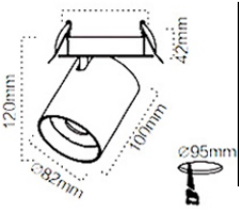
LC-SL6502-40W



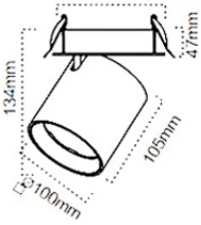
LC-RD6499-10W



LC-RD6500-15W



LC-RD6501-25W



LC-RD6502-32W

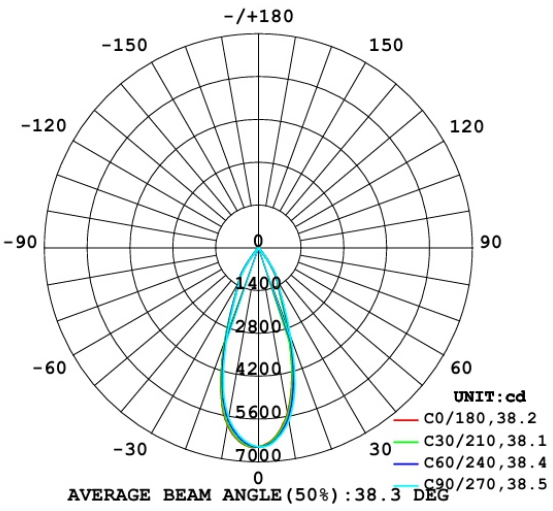
10~32w Surface Mounted

Model No.	Power	Size (mm)	PF	CRI	Lumen	Angle
LC-SL6499-10W	10W	Ø50×H70	>0.9	⩾90	1400lm	24° / 60°
LC-SL6500-15W	15W	Ø71×H85	>0.9	⩾90	2100lm	24° / 60°
LC-SL6501-25W	25W	Ø82×H100	>0.9	⩾90	3600lm	24° / 60°
LC-SL6502-32W	32W	Ø100×H105	>0.9	⩾90	4400lm	24° / 60°

10w~32w Recessed Installation

Model No.	Power	Size (mm)	Cutout	CRI	Lumen	Angle
LC-RD6499-10W	10W	Ø50×H70	Ø55mm	⩾90	1400lm	24° / 60°
LC-RD6500-15W	15W	Ø71×H85	Ø75mm	⩾90	2100lm	24° / 60°
LC-RD6501-25W	25W	Ø82×H100	Ø95mm	⩾90	3600lm	24° / 60°
LC-RD6502-32W	32W	Ø100×H105	Ø115mm	⩾90	4400lm	24° / 60°

Light distribution curve



Return To Table

Grille Downlight Led

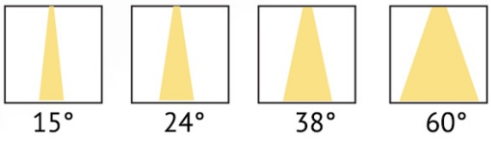
The LED Grille Series is tailored for hotels, boutiques, jewelry stores and similar spaces, with core strengths of 145lm/w efficacy and Ra>90 for true color display.

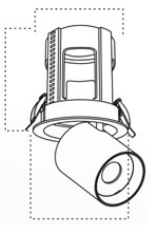
It offers retractable body into ceilings, 360° horizontal rotation and 90° vertical adjustment, making it an ideal choice for spaces needing flexible, high-quality illumination.

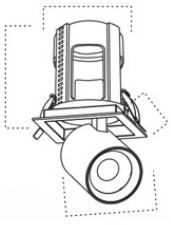
Finishing: Black ● White ○

Beam Angle

√15°/24°/38°/60°,355° rotation plus 90° tilt







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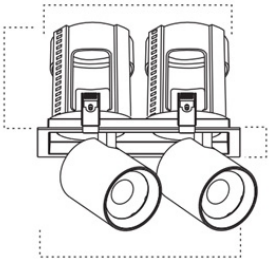
CE RoHS



Single/Double-Head Grille

Single-head Grille Downlight/Round

Model No.	Power	Size (mm)	Cutout(mm)	CRI	Lumen	Angle
LC-GL6499-R10W	10W	Ø90×H95	Ø75	⩾90	1400lm	24° / 60°
LC-GL6499-R15W	15W	Ø110×H120	Ø95	⩾90	2100lm	24° / 60°
LC-GL6499-R25W	25W	Ø130×H140	Ø115	⩾90	3600lm	24° / 60°

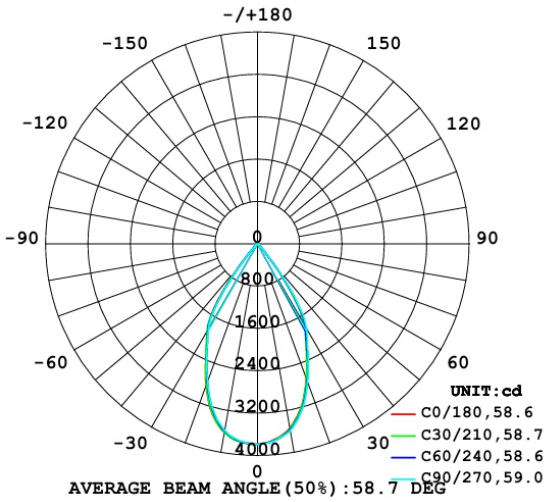
Single-head Grille Downlight/Square

Model No.	Power	Size (mm)	Cutout(mm)	CRI	Lumen	Angle
LC-GL6499-S10W	10W	90*90×H95	75*75	⩾90	1400lm	24° / 60°
LC-GL6499-S15W	15W	110*110×H120	95*95	⩾90	2100lm	24° / 60°
LC-GL6499-S25W	25W	130*130×H140	115*115	⩾90	3600lm	24° / 60°

Double-head Grille Downlight

Model No.	Power	Size (mm)	Cutout(mm)	CRI	Lumen	Angle
LC-GL6499-2*10W	20W	90*170×H95	75*155	⩾90	2800lm	24° / 60°
LC-GL6499-2*15W	30W	110*210×H120	95*190	⩾90	4200lm	24° / 60°
LC-GL6499-2*25W	50W	130*250×H140	115*230	⩾90	7200lm	24° / 60°

Light distribution curve



TRI-PROOF

Ip65 Led Tubular

AL Tri-Proof Light

Led Tri-proof Light

Low-Carbon LED Tri-Proof Light is a durable lighting solution designed for chicken farms, cattle farms, parking lots and similar venues. It boasts up to 165lm/w efficacy, MaxIP65 waterproof & dust-proof rating, and over IK09 explosion-proof grade.

Reliable performance and robust protection, it effectively adapts to harsh environments, making it an ideal choice for demanding agricultural and parking applications.

Application(Led tubular)

- Chicken farm
- Cattle farm
- Underground parking lot,etc

Application(Tri-proof Light)

- Industrial workshops
- Warehouses and storage areas
- Underground passages,etc

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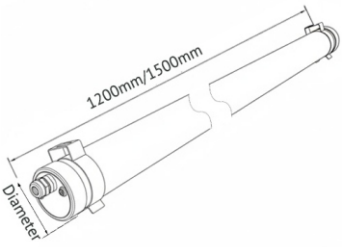
CE RoHS

Ip65 Led Tubular,140lm/w

Dimensions:

Ø78×L1200mm
Ø85×L1500mm

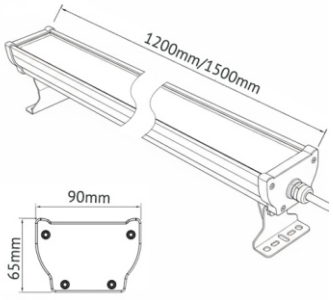


Model No.	Power	Size (mm)	PF	CRI	Lumen	Angle
LC-SF01-40W-4	40W	Ø78×L1200	>0.9	⩾80	5600lm	120°
LC-SF01-60W-5	60W	Ø85×L1500	>0.9	⩾80	8600lm	120°

IP65 AL Tri-proof,Clear/Lens

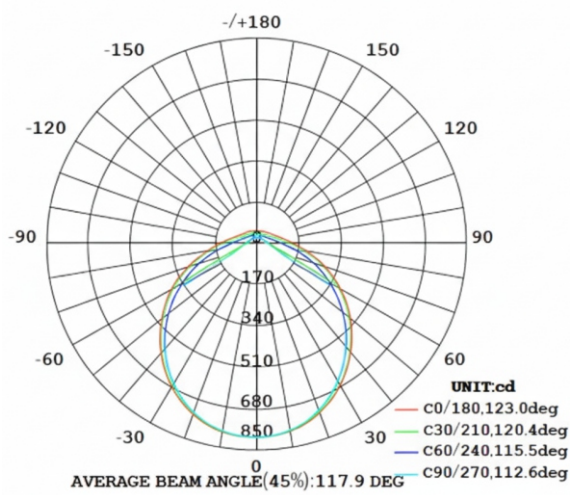
Dimensions:

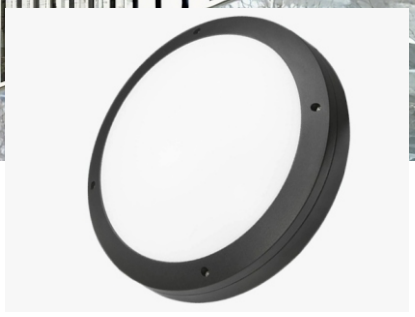
W90*H65*L1200mm
W90*H65*L1500mm



Model No.	Power	Size (mm)	PF	CRI	Lumen	Angle
LC-SF02-100W-4	100W	W90*H65*L1200mm	>0.9	⩾80	16000 lm±5%	120°
LC-SF02-120W-5	120W	W90*H65*L1500mm	>0.9	⩾80	18500lm±5%	120°

Light distribution curve





Ip65 Led Bulkhead

Low-Carbon led bulkhead is a practical IP65 waterproof and dustproof LED bulkhead tailored for bathrooms, corridors, balconies, and other damp or dusty environments.

Boasting excellent sealing performance, effectively resists moisture intrusion and dust accumulation, ensuring stable operation in harsh conditions.Power range from 10W-40W and ultra-high luminous efficacy up to 130lm/w, ideal choice for spaces require reliable, energy-efficient, long-lasting illumination.

Finishing: Black ● White ○

Application

- Shopping mall corridors
- Park walkways
- Apartment building lobbies, etc

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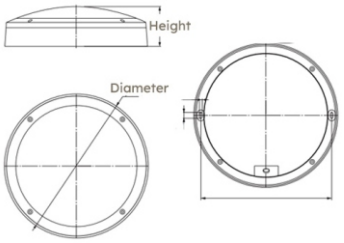
CE RoHS

10~30w Max 4000lm Output

Dimensions:

√Ø145/Ø220/Ø275/Ø350

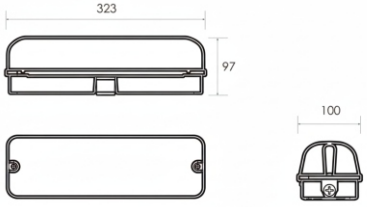


Model No.	Power	Size (mm)	IP Rating	CRI	Lumen	Angle
LC-BH01-10W-D	10W	Ø145×55	Ip65	⩾80	1300lm	120°
LC-BH01-15W-D	15W	Ø220x65	Ip65	⩾80	2000lm	120°
LC-BH01-20W-D	20W	Ø275x85	Ip65	⩾80	2600lm	120°
LC-BH01-30W-D	30W	Ø350×110	Ip65	⩾80	4000lm	120°

Rectangular Led Bulkhead

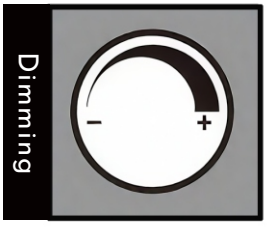
Dimensions:

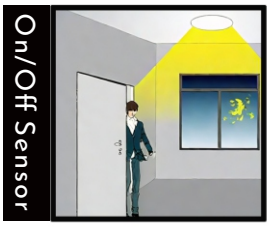
√L323*W100*H97mm



Model No.	Power	Size (mm)	IP Rating	CRI	Lumen	Angle
LC-BH02-12W-R	12W	W323*W100*H97	Ip65	⩾80	1500lm	120°

Optional Function





Optional Type

LED LIGHTING EXPERT

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