



CLT SERIES

SQUARE CANOPY LIGHT

INTRODUCTION

The FGE-CLT Series Square Canopy Light is designed for parking garages, gas stations, corridors, and other covered commercial or industrial areas requiring bright, uniform illumination. Featuring high-efficacy LED chips and a precision optical diffuser, it delivers up to 150 lm/W of glare-free light, enhancing visibility and safety while minimizing energy costs.

Constructed with a durable die-cast aluminum housing and impact-resistant polycarbonate lens, the CLR Series offers IP65 and IK08 protection, ensuring long-lasting performance in demanding environments. Its slim, low-profile design allows for easy surface or pendant installation, fitting seamlessly into various architectural spaces.

Compatible with 0–10V dimming and motion sensor options, the FGE-CLR enables intelligent energy management and adaptive lighting control. With a 100,000-hour lifetime and 5/7/10 years warranty, it provides a dependable, low-maintenance lighting solution for modern canopy and ceiling-mounted applications.



FEATURES



Wattage Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.



3 CCTS Tunable: Adjustable color temperature to suit diverse environments.



High Efficacy & Energy Saving: Up to 150 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



Smart Control Ready: Compatible with 0–10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



QUICK & EASY

Easy Installation and Maintenance:

Reduce installation time and maintenance labor, effectively lowering overall operational costs.



SENSOR

Plug & Play Sensor Options: Provides smart lighting control to improve energy efficiency and convenience.



EMERGENCY
BACKUP

90 Minutes EM Back-up Options:

Ensuring safety and visibility during critical moments.



RELIABLE
WARRANTY

Reliable Warranty: 5 / 7 / 10 Years Warranty Options.

– Advanced Optical Design:

High-transmittance PC lens with 150° beam options, ensuring uniform illumination and glare reduction.

– Robust Protection:

IP65 waterproof & dustproof, IK08 impact resistance for harsh industrial environments.

– Superior Thermal Management:

Die-cast cold-rolled steel housing with optimized heat sink for reliable performance.

– Versatile Mounting Options:

Ceiling, and pole mounting for flexible installation.

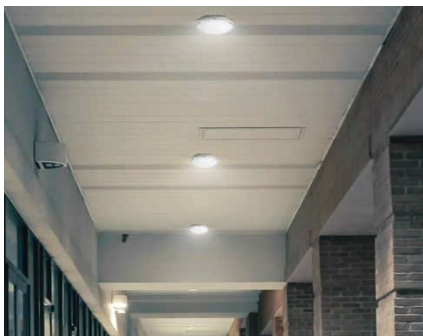
– Wide Input Voltage:

AC100–277V, suitable for global power grids.

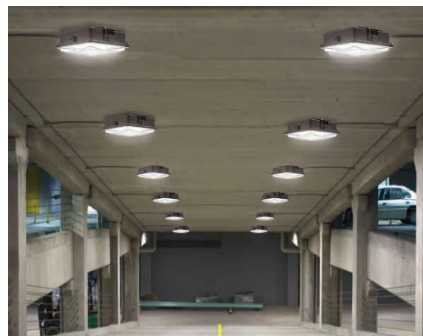
APPLICATIONS



Loading Docks: Resist weather elements while delivering bright light for nighttime operations.



Walkways or Corridor: Providing bright, uniform illumination for safety and visibility.



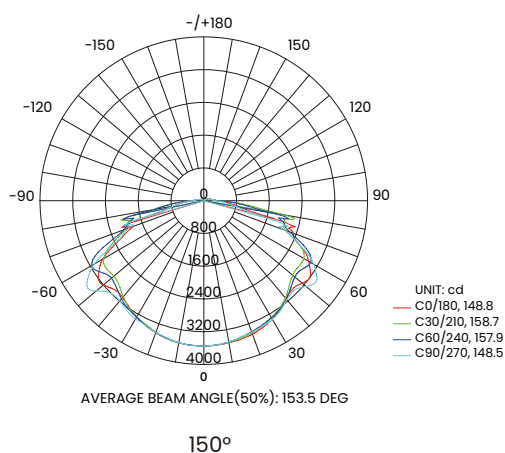
Parking Garages & Tunnels: Ensure consistent lighting for navigation and security in enclosed, damp environments.

TECHNICAL PARAMETERS

Product Model	CLT-100W
Electrical Performance	
Wattage Selectable	100W/80W/60W
Input Voltage	AC100-277V
Frequency	50/60Hz
Power Factor (PF)	>0.9
Surge Protection	6KV
THD	<20%
Optical Performance	
Luminous Efficacy	150lm/W
Luminous Flux	15000lm/12000lm/9000lm
CCT Selectable	3000K/4000K/5000K
CRI	Ra>80
Beam Angle	150°
Unified Glare Rating (UGR)	<28
Reliability	
Lifetime	>100,000h, L70 @25°C
Operating Temperature	-40 ~ +45°C
Storage Temperature	-40 ~ +70°C
Ingress Protection	IP65
Impact Resistance	IK08
Control	
Dimming	0-10V/DALI
Sensor	Motion Sensor
Communication Protocol	Bluetooth/Zigbee/LoRa
Emergency Kit	8W Battery Backup
Mechanical	
Housing Material	Die-cast Aluminum
Lens Material	Polycarbonate
Coating	Brown/RAL9003
Net Weight	2.12kg
Dimensions	280x280x85mm
Warranty	5/7/10 Years

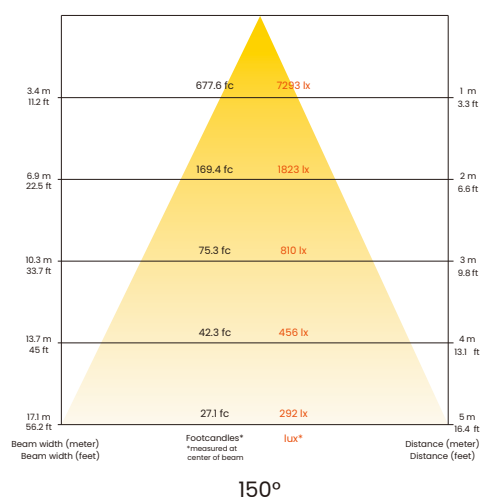
PHOTOMETRICS

Luminous Intensity Distribution Diagram

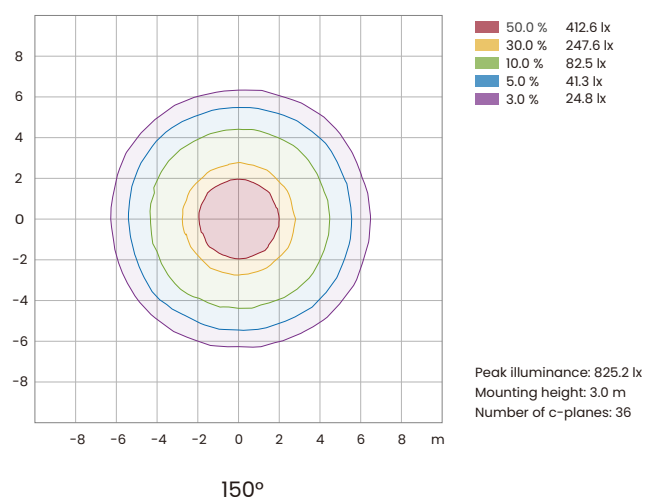


ILLUMINANCE DISTRIBUTION

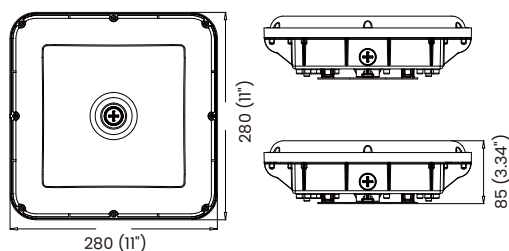
Illuminance at A Distance



Iso-illuminance Diagram (Iso-lux)



MECHANICAL DIMENSIONS



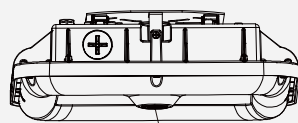
100W/80W/60W

Product Model	CLT-100W
Wattage Selectable	100W/80W/60W
Outer box (L*W*H)	462x395x405mm (18.2"x15.6"x15.9")
Q'ty/Ctn	4pcs
N.W./Ctn	8.5kg/18.7lbs
G.W./Ctn	9.6g/21.12lbs
Remarks	1.8M cable

INSTALLATION

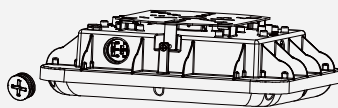
Step of Adjusting Color Temperature and Power

1. Place the fitting face up.

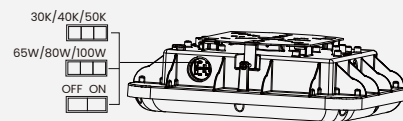


Photosensitive position
(Transparent plug)

2. Use a screwdriver to remove the screws from the switch box cover and remove the switch box cover.

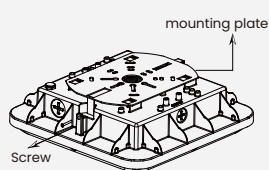


3. According to the requirements of the color temperature and power switch to the designated location.

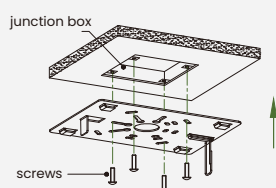


Ceiling Installation

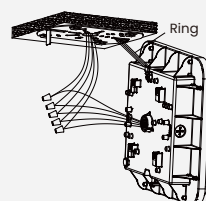
1. Loosen the screw to take off the mounting plate from the lamp.



2. Use screws to lock the mounting plate on the embedded junction box.



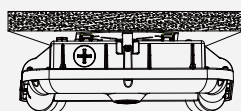
3. Hang the lamp on the ring so as to connect wires with terminal caps.



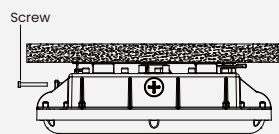
Green —○— Green
White —○— White
Black —○— Black
Dim- —○— Gray
Dim+ —○— Pink

this connection can be omitted if with non-dim driver

4. Hook up lamp on the mounting plate.

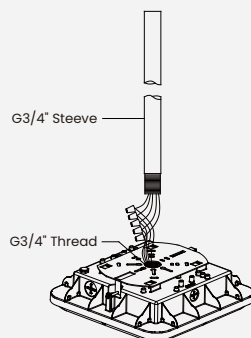


5. Secure the screw. Installation completed.



Pole-pendant Installation

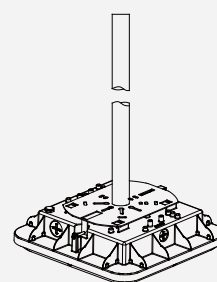
1. Connecting wires with terminal caps as picture shows.



Green —○— Green
White —○— White
Black —○— Black
Dim- —○— Gray
Dim+ —○— Pink

this connection can be omitted if with non-dim driver

2. Rotating the steeve to make it fixed with lamp. Installation completed.



ACCESSORIES



Microwave
Motion Sensor

ORDER INFORMATION

CLT-YY-YY-YY-Y

1 2 3 4 5 6 7 8

1 CLT Series Square Canopy Light

2 Wattage

100W	100W/80W/60W
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3 Color Temperature

30K	3000K
40K	4000K
50K	5000K

4 Voltage

(Blank)	100-277V
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5 Dimmable

D	0-10V Dimming
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6 Optics

(Blank)	150°
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7 Control

(Blank)	No Socket
S	Sensor Socket
C	Control Module

8 Options

(Blank)	1.8M cord
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WARRANTY PERIOD
5/7/10 YEARS
WARRANTY OPTIONS



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT