



Catalog Number	
Project	Type

FEATURES & SPECIFICATIONS

APPLICATION — The high performance luminaire is designed for refrigerated environments where the normal operation ambient temperature is below 60°F. The low 1.75" luminaire profile minimizes the chance for luminaire damage due to operational traffic. The luminaire's sloped walls further help by forcing the contact object to slip under the luminaire.

CONSTRUCTION — Heavy duty single piece die cast aluminum housing for durability. The fixture is sealed to the elements and can be cleaned by pressurized water (IP66 rated). The power supply is remotely mounted outside of the refrigerated environment for heat reduction and maintenance ease. The LED lamps are mounted onto dedicated heat sinks. The "starburst" heat sink conducts heat from lamp to radial fins and onward to the cooled pyramid walls.

FINISH — A super durable polyester powder coat finish is electrostatically applied. Standard housing finish is white. Custom colors available upon request.

OPTICAL SYSTEM — Two optical options are available. Option A — architecturally designed for applications where luminaire is in view of customers. This option also illuminates the ceiling plane and direct glare is minimized. Option B — utilitarian design for maximum efficiency having downlight option only. Both options' optical distributions are available for low and high mounting. Also, both luminaires' lamp optical assembly is independent of neighboring lamps permitting the use of multiple optics on a single luminaire.

ELECTRICAL SYSTEM — The constant current LED power supply operates off a voltage input range from 90V~305V (50/60 Hz) and an output range of 103V~171V. An internal surge protection device protects the assembly from up to 10,000 kV surge events. For ease of service the power supply is typically located outside the refrigerated box. Through an integral J-Box located at the luminaire center, power and signal are distributed to lamps and when needed, to nearby luminaires. 70 and 80 CRI LED lamps are available in 4000°K and 5000°K color temperature. An occupancy sensor and thermal probe can be used as the J-Box cover. To assure prolonged lamp life the thermal probe with dimming option is recommended when the luminaire environment exceeds 60°F.

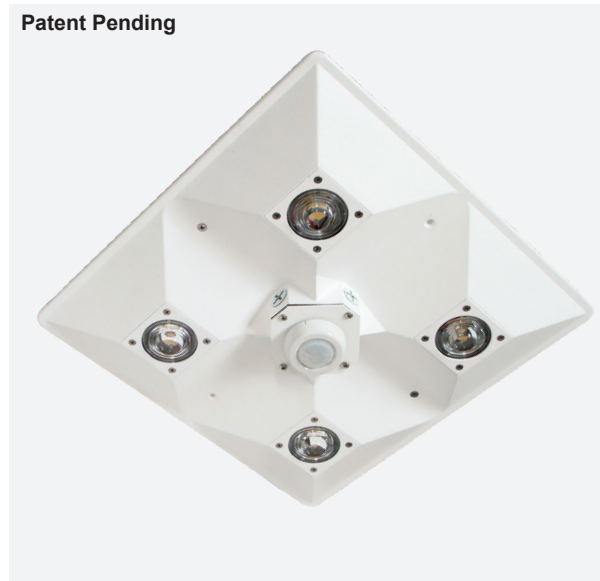
MOUNTING — A patent-pending invention sets the luminaire apart. A single non-conductive through bolt secures the luminaire to the ceiling panel. Inserted from above through a 7/8" dia. bore, the bolt also acts as a wire conduit. The bolt luminaire entry is at the J-Box. The luminaire installation is quick and easy, eliminating common issues such as sweating and air infiltration.

LISTINGS — ETL listed for wet locations (IP66). Meets US and Canadian safety standards. -40°F to 60°F ambient operation.

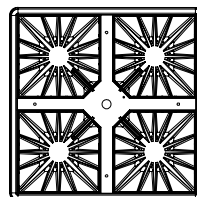


Refrigeration Canopy Luminaire CL4 SERIES

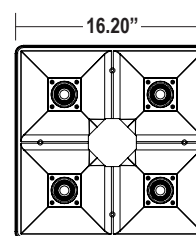
Patent Pending



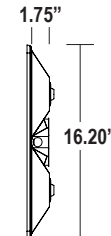
Top View
(Flush to Ceiling)



Bottom View



Elevation



Series	Housing Height	Length & Width	Weight
CL4	1.75"	16.20"	14 lbs

ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

Example: **CL42NW6W**
CC1BE
EUC_120S070ST

Series	Optics	Color Temp & CRI	Mounting	FINISH
CL4	1 Uplight/Downlight 2 Downlight Only 3 Wide Distribution 4 Diffuse Anti-Glare Lens	NW Natural White (4000K / 80 CRI) CW Cool White (5000K / 70 CRI)	4 4" Bolt Length 5 5" Bolt Length 6 6" Bolt Length 0 No Bolt Provided SP Custom Bolt Length ⁴	W White SP Custom Finish

Accessories

Order as separate line items

CC1BE	Single Driver Enclosure
CC7BE	Multiple Driver Enclosure (Up to 7)
EUC_120S070ST	90V~305V Input Driver (Order 1 per fixture)
OSP1F1W²	PIR Occupancy Sensor (luminaire mount)
PCCBBU	125W, 90 Minute Battery Back-Up
PSJ183³	18 Gauge, 3 Strand SO Cord
PSJ185³	18 Gauge, 5 Strand SO Cord

NOTES

- Multi-Volt is an auto ranging power supply from 90V to 300V input.
- The PIR Occupancy Sensor is individually rated as IP65. The addition of this option downrates the entire assembly to the IP65 rating.
- SO Cord is ordered by the linear foot.
- Custom bolt length required must be denoted on purchase order.

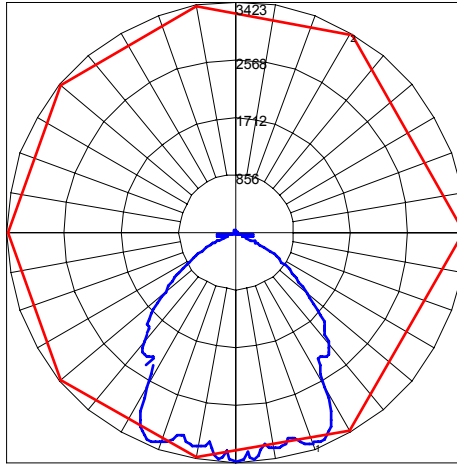
CL4 Refrigeration Canopy Luminaire

PHOTOMETRICS

IES INDOOR REPORT PHOTOMETRIC FILE NAME: CL41CW POLAR GRAPH

Uplight/Downlight Optical
Assembly (92% Efficient)

107W! Refrigeration Canopy
Color Temperature: 4,000 K
CRI: 80

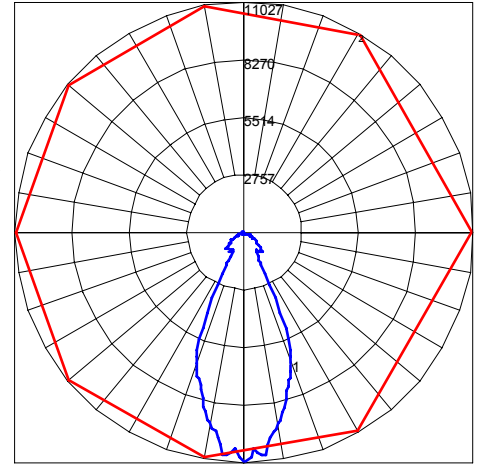


Maximum Candela = 3423.49 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

IES INDOOR REPORT PHOTOMETRIC FILE NAME: CL42CW POLAR GRAPH

Downlight Only Optical
Assembly (94% Efficient)

107W! Refrigeration Canopy
Color Temperature: 5,000 K
CRI: 70



Maximum Candela = 11027.31 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

LED DRIVER CHARACTERISTICS — High Efficiency, Constant Current Output Driver

Driver	Output Current	Input Voltage	Input AC Current	Max Output Voltage	Max Output Power	Typical Efficiency ³	Power Factor	
							110Vac	220Vac
High Efficiency, Constant Current Output, IP67 Driver	700 mA	90 ~ 305 Vac	1.5 A @ 100 Vac ³ 0.7 A @ 220 Vac ⁴	171 Vdc	120W	92.0%	0.99	0.96

LED CHARACTERISTICS

PHOTOMETRIC (Cool White)

Initial Lumens ²	9540
LED Lumens Per Watt ⁴	89
System Lumens Per Watt ⁴	82 (typical)
L70	(70%) @ 52,257 hours ⁵
CCT	5000K
CRI	70

PHOTOMETRIC (Neutral White)

Initial Lumens ²	7848
LED Lumens Per Watt ⁴	73
System Lumens Per Watt ⁴	68 (typical)
L70	(70%) @ 52,257 hours ⁵
CCT	4000K
CRI	80

LUMEN DEPRECIATION FACTORS

AMBIENT TEMP	LUMEN MULTIPLIER
-30°C	1.08
-20°C	1.06
-10°C	1.04
0°C	1.02
10°C	1.00
8.9°C	0.99

LIFE DEPRECIATION FACTORS

AMBIENT TEMP	LIFE HOUR MULTIPLIER
-30°C	4.29
-20°C	2.90
-10°C	2.02
0°C	1.44
10°C	1.04
8.9°C	1.00

NOTES

- 107W is the total wattage for all 4 LED modules not including driver.
- Initial Lumen values are based upon 10°C (48°F) ambient operating temperature.
- Measured at full load and 100 Vac input.
- Measured at full load and 220 Vac input.
- L70 values based upon 8.9°C (48°F) ambient operating temperature.



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