

Project:	
Type:	
Catalog #:	



PRODUCT DESCRIPTION

The Charon Series LED Luminaire is designed for installations where moisture, dirt, dust, corrosion and vibration may be present, or NEMA 3 and 4X areas where wind, water, snow or high ambient can be expected. They can be used in locations made hazardous by the presence of flammable vapors or gases or combustible dusts as defined by the NEC.

FEATURES

- High luminous efficacy-Up to 160Lm/W
- Input Voltage: AC1 00~277V, AC347 ~480V (50/60Hz)
- Instant illumination and restrike no warm-up time required
- Valid over the entire temperature range from -40°C up to 65°C (-40°F~+149°F)
- Safe and reliable heat transfer-Offering a T-rating of T4A (CI D2/CII D1/CIII)
- Shock and vibration resistant-Durable LEDs with solderless board connection
- Anti-corrosion housing tested 1000hrs to standard ASTM "B117-11"
- All exposed fasteners with quality stainless steel
- High Temperature silicone gasketing
- Thermal shock and impact resistant tempered Glass or PC Lens

COMPLIANCE

- NEC/CEC Standard
- UL844
- Class I Division 2 Group A,B,C,D
- Class II Division 1 Group E,F,G Class
- II Division 2 Group F,G
- Class III
- Simutaneous Presence
- UL1598 Wet Location
- UL1598A Outside Type (Salt Water)
- IP66/IK08 (glass)/IK10 (PC)
- 5G
- 1,000hrs Salt Spray

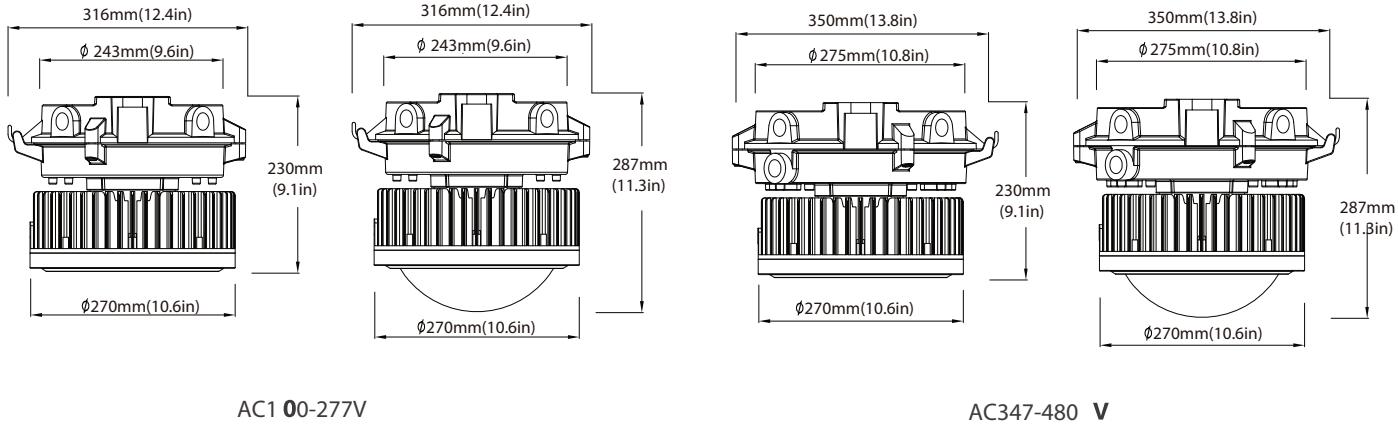
APPLICATION

- Power Plants/Heavy Industrials
- Storage Facility
- Paper Mills
- Wastewater Treatment Plants
- Loading Docks/Platforms/Shipyards
- Chemical Processing Facility
- Petrochemical Processing Facility

WARRANTY

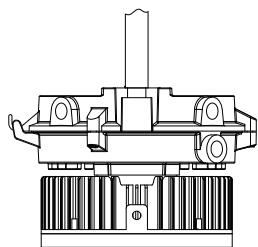
- 5-year Standard Warranty.
- LED Lumen Maintenance: L70>145,000
- Operation Hours at 55°C.

PRODUCT DIMENSIONS

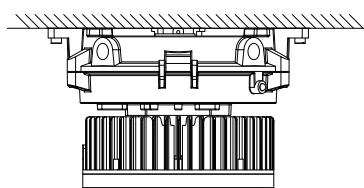


Model	Parts	Input Voltage	Net weight	Product Dimensions (LxWxH)	Gross weight	Package Dimensions (LxWxH)
FME-CRN-8	Flat	AC1 00-277V	8.9kg	Φ316×230mm 12.4×9.1in	9.9kg	
FME-CRN-12			9.2kg		10.2kg	
FME-CRN-15			9.8kg		10.8kg	
FME-CRN-20		AC347-480V	9.7kg		10.7kg	
FME-CRN-8	Lens	AC347-480V	9.9kg	Φ350×230mm 13.8×9.1in	10.9kg	
FME-CRN-12			9.9kg		11.5kg	
FME-CRN-15			10.5kg		11.5kg	
FME-CRN-20		AC1 00-277V	9.9kg		10.9kg	
FME-CRN-8	Drop	AC1 00-277V	10.2kg	Φ316×287mm 12.4×11.3in	11.2kg	
FME-CRN-12			10.8kg		11.8kg	
FME-CRN-15			10.7kg		11.7kg	
FME-CRN-20		AC347-480V	10.9kg		11.9kg	
FME-CRN-20			11.5kg		12.5kg	

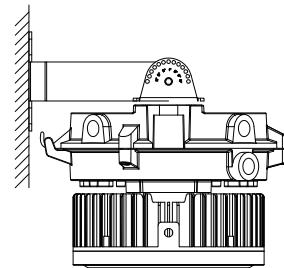
MOUNTING



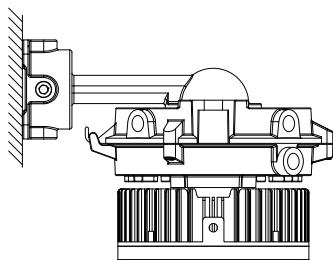
PENDANT



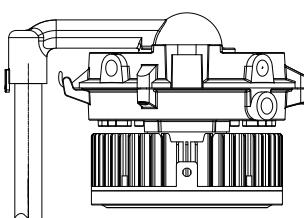
CEILING



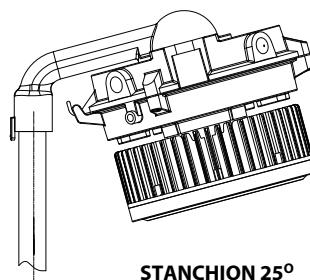
BRACKET



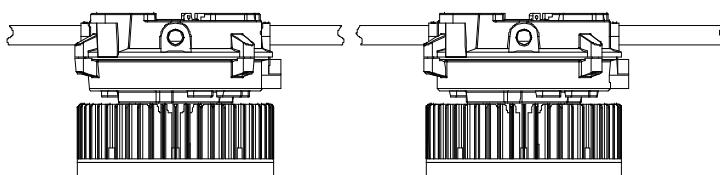
WALL



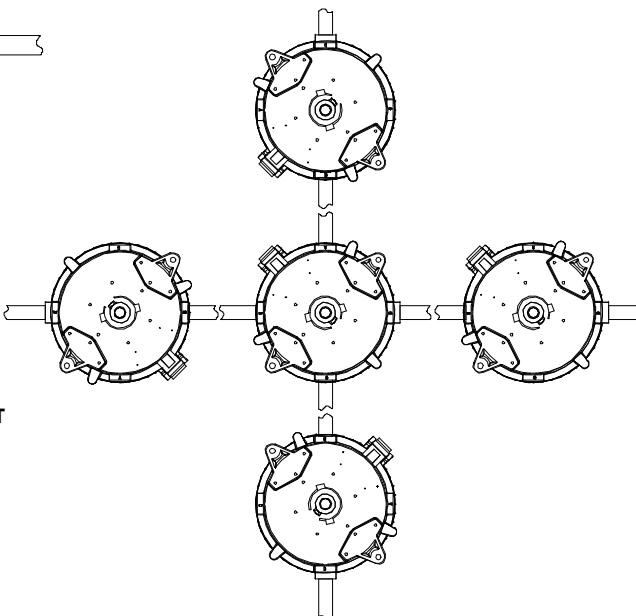
STANCHION 90°



STANCHION 25°



ROW MOUNT



TECHNICAL PARAMETER

ELECTRICAL

Specification		FME-CRN-8	FME-CRN-12
Rated Power		80W	120W
MH Replacement		320W	400~600W
Input Voltage		AC100~277V / AC347~480V	
Input Frequency		50/60Hz	
Power Factor		≥0.95	
Driver Efficiency		≥90%	
Input Current	(AC100~277V)	0.67/0.29A	1.00/0.44A
	(AC347~480V)	0.23/0.17A	0.36/0.25A

OPTICAL

Specification		FME-CRN-8	FME-CRN-12
Lumen Output		12000Lm	18000Lm
Lumens Per Watt		150Lm/W with T5; 130Lm/W with T1 or T3	
Beam Angle		T1 / T3 / T5	
Correlated Color Temperature (CCT)		3000K / 4000K / 5000K	
Color Rendering Index (CRI)		Ra>80	

ENVIRONMENTAL

Specification		FME-CRN-8	FME-CRN-12
Ambient Operating Temperature		-40°C ~ +65°C/-40°F ~ +149°F	
T-code	CID2 CIID1 / CIII	T4A	T4A

MECHANICAL

Specification		FME-CRN-8	FME-CRN-12
Housing Material		Copper-free Aluminum	
Lens Material		Glass(Clear / Frosted / Drop lens) PC (Clear / Frosted / Drop lens)	
Mounting Options		Pendant, Bracket, Ceiling, Stanchion, Wall	
IP Rating		IP66	
IK Rating		IK08(Glass) / IK10(PC)	

TECHNICAL PARAMETER

ELECTRICAL

Specification	FME-CRN-15	FME-CRN-20
Rated Power	150W	200W
MH Replacement	600~750W	750~1000W
Input Voltage	AC100~277V / AC347~480V	
Input Frequency		50/60Hz
Power Factor		≥0.95
Driver Efficiency		≥90%
Input Current	(AC100~277V)	1.25/0.54A
	(AC347~480V)	0.43/0.31A
		1.67/0.72A
		0.58/0.42A

OPTICAL

Specification	FME-CRN-15	FME-CRN-20
Lumen Output	22500Lm	30000Lm
Lumens Per Watt	150Lm/W with T5; 130Lm/W with T1 or T3	
Beam Angle		T1 / T3 / T5
Correlated Color Temperature (CCT)		3000K / 4000K / 5000K
Color Rendering Index (CRI)		Ra>80

ENVIRONMENTAL

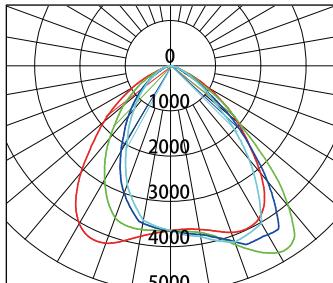
Specification	FME-CRN-15	FME-CRN-20	
Ambient Operating Temperature	-40°C ~ +60°C/-40°F ~ +140°F	-40°C ~ +55°C/-40°F ~ +131°F	
T-code	CID2 CIID1 / CIII	T4A	T4A

MECHANICAL

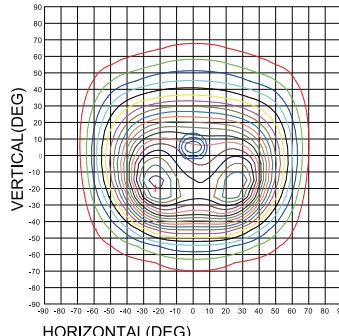
Specification	FME-CRN-15	FME-CRN-20
Housing Material	Copper-free Aluminum	
Lens Material	Glass(Clear / Frosted / Drop lens) PC (Clear / Frosted / Drop lens)	
Mounting Options	Pendant, Bracket, Ceiling, Stanchion, Wall	
IP Rating	IP66	
IK Rating	IK08(Glass) / IK10(PC)	

PHOTOMETRIC

Type I



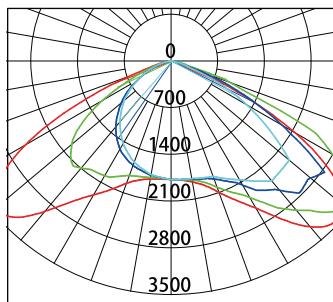
C0/180,102.1
 C30/210,94.2
 C60/240,77.3
 C90/270,72.6



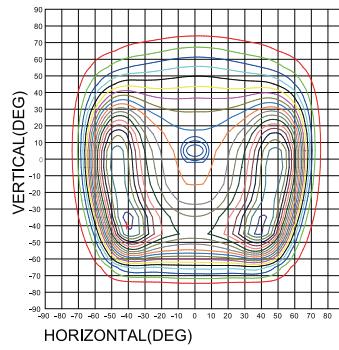
Illumination-Type II Degree

2m	6m	491Lux
4m	12m	122Lux
6m	18.1m	54Lux
8m	24.1m	30Lux
10m	30.2m	19Lux
Height	Diameter	Eavg

Type III



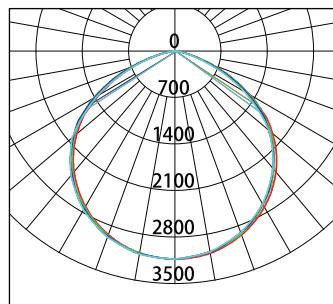
C0/180,134.6
 C30/210,133.3
 C60/240,98.3
 C90/270,102.0



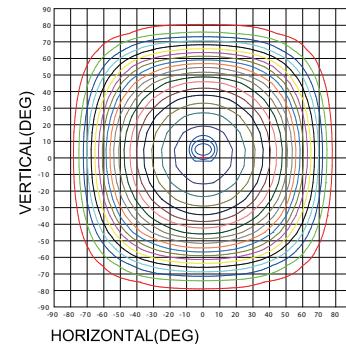
Illumination-Type III Degree

2m	6m	491Lux
4m	12m	122Lux
6m	18.1m	54Lux
8m	24.1m	30Lux
10m	30.2m	19Lux
Height	Diameter	Eavg

Type V



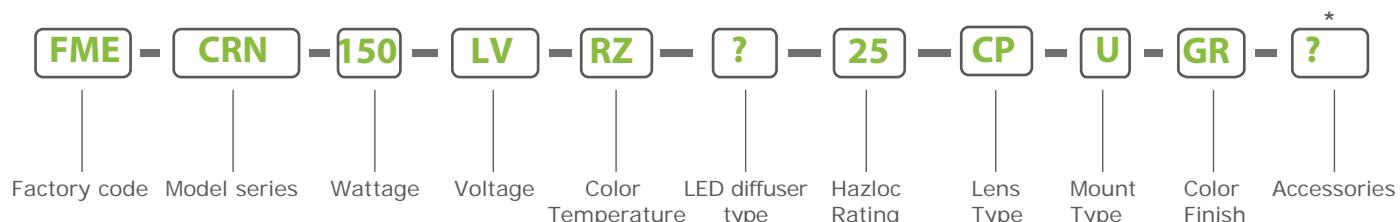
C0/180,112.5
 C30/210,113.7
 C60/240,112.9
 C90/270,111.4



Illumination-Type V Degree

2m	6m	491Lux
4m	12m	122Lux
6m	18.1m	54Lux
8m	24.1m	30Lux
10m	30.2m	19Lux
Height	Diameter	Eavg

ORDERING INFORMATION AND MOUNTING ACCESSORIES



*: Suffix not within nomenclature as per Certification, for marketing purpose only

<u>FACTORY CODE</u>	<u>MODEL SERIES</u>	<u>WATTAGE</u>	<u>VOLTAGE</u>	<u>COLOR TEMPERATURE</u>
FME	CRN	8=80W 12=120W 15=150W 20=200W	LV= AC100~277V HV= AC347~480V	3K= 3000K (Warm White) 4K= 4000K (Neutral White) 5K= 5000K (Neutral White) RD= Red GN= Green BU= Blue AM= Amber.

<u>LED DIFFUSER TYPE</u>	<u>HAZLOC RATING</u>	<u>LENS TYPE</u>	<u>MOUNT TYPE</u>
T1=Type I LED diffuser T3=Type III LED diffuser T5=110° (No LED diffuser)	25=CID2,CIID1	TG = Clear glass FG = Frosted glass DL = Drop lens (glass) CP = Clear PC FP = Frosted PC DP = Drop lens (PC)	P=NPT 3/4"pendant mount U=NPT 3/4"pendant+U-bracket F=Multi-mount (Stanchion / Wall)

<u>COLOR FINISH</u>	<u>ACCESSORIES</u>
GR = "gray"	1 = U-Bracket (SUS 304) for 100~277V models 2 = U-Bracket (SUS 304) for 347~480V models 3 = Wall mount - 90° 4 = Stanchion - 25° (NPT 1.25") 5 = Stanchion - 25° (NPT 1.50") 6 = Stanchion - 90° (NPT 1.25") 7 = Stanchion - 90° (NPT 1.50") 8 = Stainless Steel Wire Guard for Flat Glass Lens 9 = Stainless Steel Wire Guard for Glass Drop Lens 10 = Stainless Steel Safety Cable Kit 11 = 3' SJTOW-18/3 Cord (Factory Installed) 12 = Cable (order upon request) 13 = 10kv Surge Protector for 120-227V 14 = 10kv Surge Protector for 347-480V 15 = 20kv Surge Protector for 120-277V 16 = 20kv Surge Protector for 347-480V