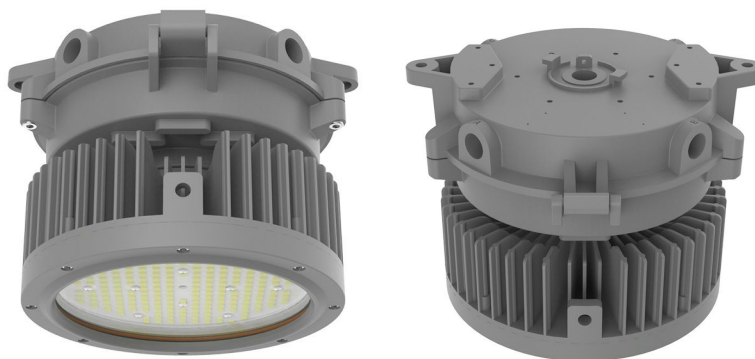


Project:	
Type:	
Catalog #:	



## 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  
Simultaneous Presence  
UL1598 Wet Location  
UL1598A Outside Type (Salt Water)  
IP66/IK08 (glass)/IK10 (PC)  
5G  
1,000hrs Salt Spray

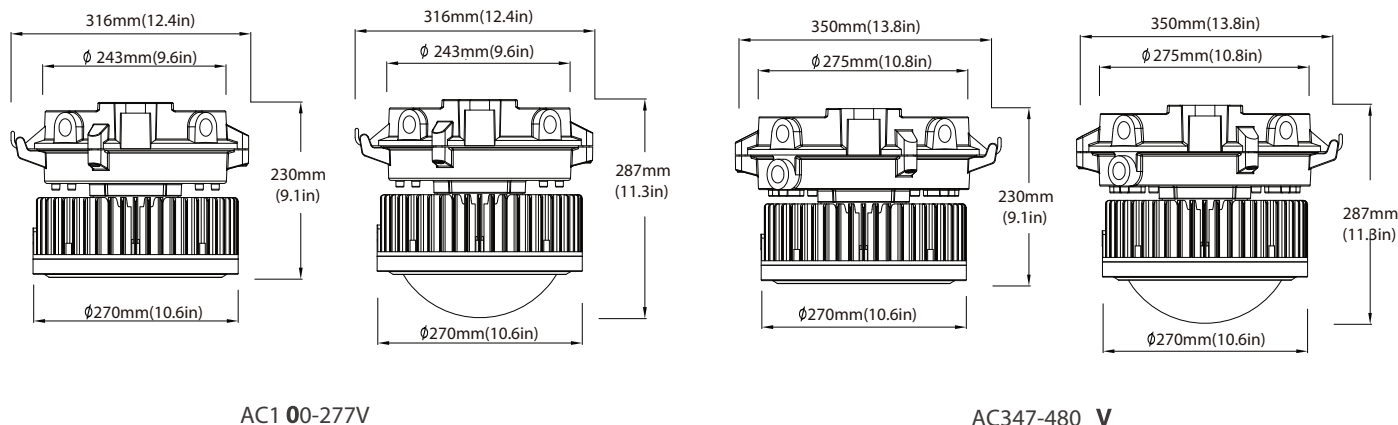
## APPLICATION

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

## WARRANTY

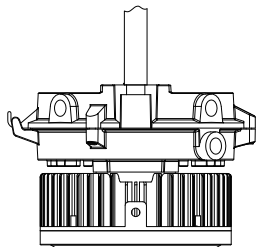
5-year Standard Warranty.  
LED Lumen Maintenance: L70>145,000  
Operation Hours at 55°C.

### PRODUCT DIMENSIONS

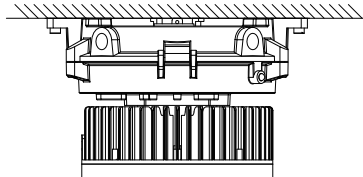


Model	Parts	Input Voltage	Net weight	Product Dimensions (LxWxH)	Gross weight	Package Dimensions (LxWxH)
FME-CRN-8	Flat	AC1 00-277V	8.9kg	Φ316×230mm 12.4×9.1in	9.9kg	
FME-CRN-12			9.2kg		10.2kg	
FME-CRN-15			9.8kg		10.8kg	
FME-CRN-20			9.7kg		10.7kg	
FME-CRN-8	Lens	AC347-480V	9.7kg	Φ350×230mm 13.8×9.1in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

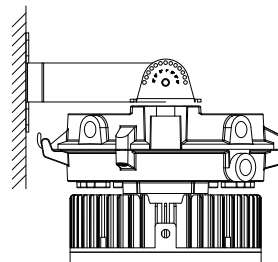
### MOUNTING



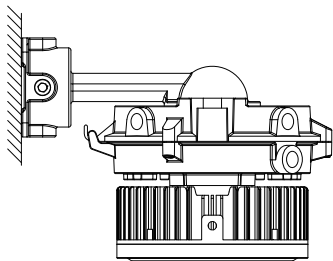
**PENDANT**



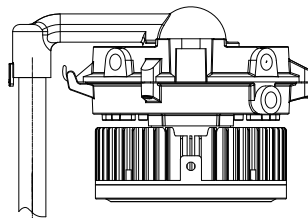
**CEILING**



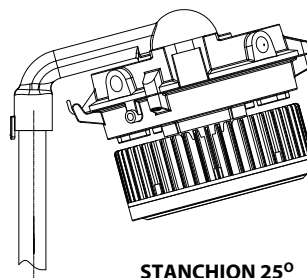
**BRACKET**



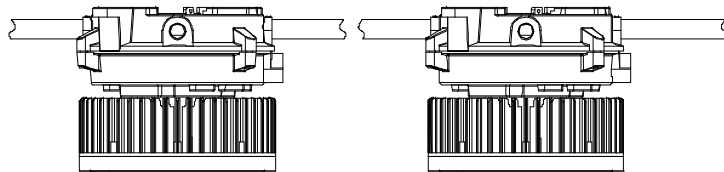
**WALL**



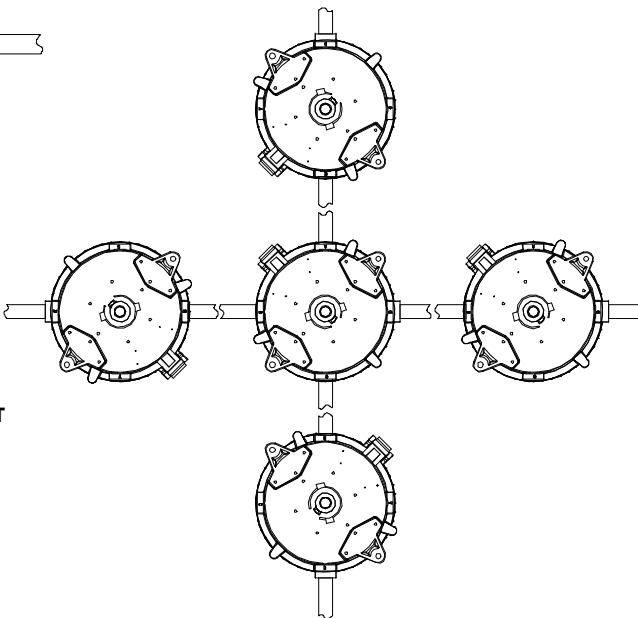
**STANCHION 90°**



**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	T4A	T4A
	CIID1 / CIII		

### 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	1.67/0.72A
	(AC347 ~ 480V)	0.43/0.31A	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

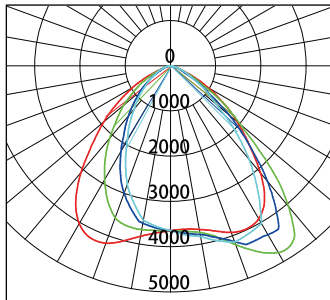
Specification		FME-CRN-15	FME-CRN-20
Ambient Operating Temperature		-40°C ~ +60°C / -40°F ~ +140°F	-40°C ~ +55°C / -40°F ~ +131°F
T-code	CID2	T4A	T4A
	CIID1 / CIID3		

#### MECHANICAL

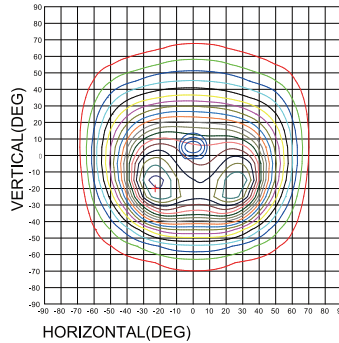
Specification		FME-CRN-15	FME-CRN-20
Housing Material		Copper-free Aluminum	
Lens Material		Glass(Clear / Frosted / Drop lens) PC (Clear / Frosted / Drop lens )	
Mounting Options		Pendant, Bracket, Ceiling, Stanchion, Wall	
IP Rating		IP66	
IK Rating		IK08(Glass) / IK10(PC)	

### PHOTOMETRIC

#### Type I



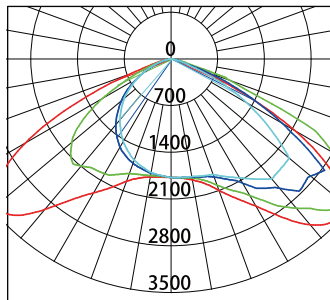
— C0/180,102.1  
— C30/210,94.2  
— C60/240,77.3  
— C90/270,72.6



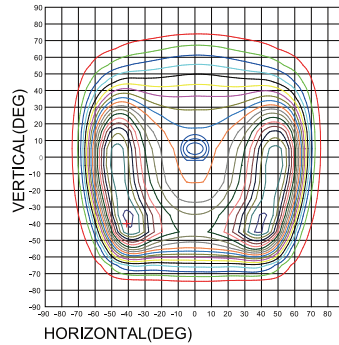
#### Illumination-Type II Degree

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

#### Type III



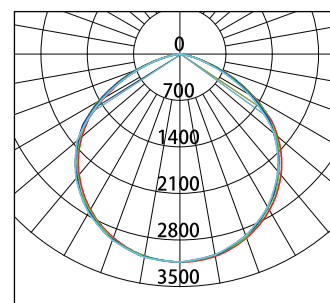
— C0/180,134.6  
— C30/210,133.3  
— C60/240,98.3  
— C90/270,102.0



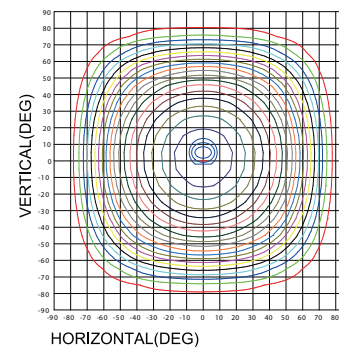
#### Illumination-Type III Degree

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

#### Type V



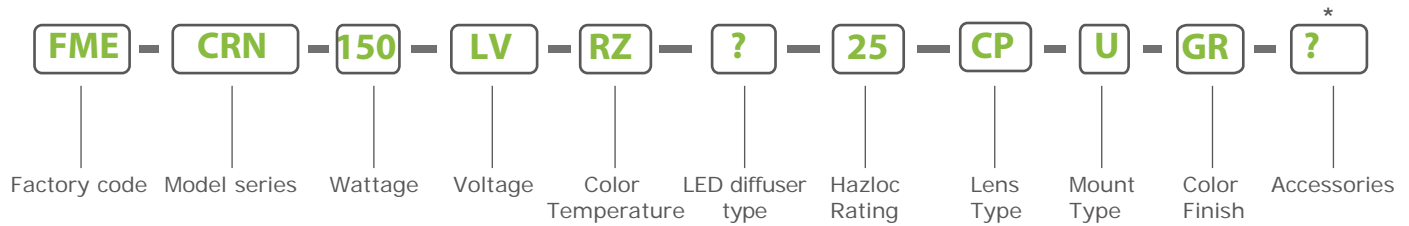
— C0/180,112.5  
— C30/210,113.7  
— C60/240,112.9  
— C90/270,111.4



#### 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

#### FACTORY CODE

FME

#### MODEL SERIES

CRN

#### WATTAGE

8=80W  
12=120W  
15=150W  
20=200W

#### VOLTAGE

LV= AC100 ~ 277V  
HV= AC347 ~ 480V

#### COLOR TEMPERATURE

3K= 3000K (Warm White)  
4K= 4000K (Neutral White)  
5K= 5000K (Neutral White)  
RD= Red  
GN= Green  
BU= Blue  
AM= Amber.

#### LED DIFFUSER TYPE

T1=Type I LED diffuser T3=Type III  
LED diffuser T5=110° (No LED  
diffuser)

#### HAZLOC RATING

25=CID2,CIID1

#### LENS TYPE

TG = Clear glass  
FG = Frosted glass  
DL = Drop lens (glass)  
CP = Clear PC  
FP = Frosted PC  
DP = Drop lens (PC)

#### MOUNT TYPE

P=NPT 3/4"pendant mount U=NPT  
3/4"pendant+U-bracket  
F=Multi-mount ( Stanchion / Wall )

#### COLOR FINISH

GR = "gray"

#### ACCESSORIES

- 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