STANPRO

Project: _____ Type: _____

Drawn by: _____ Catalogue #: _____ Date: _____

Series Spec Sheet

CXM

HAZARDOUS LOCATION MULTI MOUNT LUMINAIRE

Class I, Division 1, Groups B, C, D
Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
Class III
Non recessed marine luminaires, outside type (salt water)

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

Glass Lens (CID1, CID2, CIID1)

Top View (CID1 & CID2)

FEATURES AND SPECIFICATIONS

- **Construction**

  Housing

  Rugged and resilient housing made of a copper-free aluminum corrosion resistant casting with separated driver compartment for improved thermal manage-ment. All exposed fasteners are quality stainless steel as well as high temperature quality silicone gasketing. Available in a grey casting color and a superior electrostatic powder coating.

  Temperature ratings

  Based on the surface temperature of the fixture;
  - Class I, Division 1 is rated T6 for 21 W, 40 W and 50 W (will not exceed 85°C) and rated T5 (will not exceed 100°C) for 60 W configurations.
  - Class I Division 2 is rated T4A (will not exceed 120°C), except for 21 W and 50 W configurations and is rated T4 (will not exceed 135°C) for 40 W and 60 W configurations.
  - Class II Division 1 & Class III are rated T6 for 21 W, 40 W and 50 W (will not exceed 85°C) and rated T5 (will not exceed 100°C) for 60 W configurations.

  Ambient operating temperature
  - **21, 40, 50 W:** -40°C to +65°C
  - **60 W:** -40°C to +64°C

  Ambient operating humidity

  5% ~ 95% RH

  Optics

  This luminaire is outfitted with either a thermal shock and impact resistant tempered glass lens. A clear and diffuse finish is available for glass lens. Type II and III distribution patterns are available with the clear glass lens and Type V distribution pattern is available for diffuse glass.

- **Electrical**

  Available in either 1 (21 W), 2 (40 W), 3 (50 W) or 4 (60 W) lumen packages with a lumen per watt ration of 100 to 124 lm/W. Driver input voltages are 120-277 V or 347-480 V 50/60Hz are non-dimmable and have 4 kV integrated transient surge protection with a power factor >0.95. The CXM is offered in either 2 700, 4 000 or 5 000 K color temperatures with a color rendering index (CRI) >75.

- **NEC/CEC Standards**

  NEC500/CEC Section 18: Existing plants
  - Hazloc D :
    - Class I, Division 1, Groups B, C, D
    - Class I, Division 2, Groups A, B, C, D
    - Class II, Division 1, Groups E, F, G
    - Class III
  - Hazloc E :
    - Class I, Division 2, Groups A, B, C, D
    - Class II, Division 1, Groups E, F, G
    - Class III

  NEC505/CEC Section 18 Zones: New plants
  - Hazloc D :
    - Class I, Zone 1, Group IIB + H2
    - Class I, Zone 2, Group IIC
    - Zone 21
  - Hazloc E :
    - Class I, Zone 2, Group IIC
    - Zone 21

- **Compliances**
  - Meets requirements of ICES-005 issue 5 for class A products
  - 5G vibration resistant in compliance with IEC60598-1 standard, CL-4.20
  - IK08 (glass lens)
  - UL Standards
  - UL844
  - UL1598A
  - UL1598
  - UL8750
  - CSA Standards
  - CSA C22.2 No.250.0 250.13
  - CSA C22.2 No.137

OVERVIEW

Light source	LED
Watts (W)	21, 40, 50, 60
Lumen output (lm)	2 648 - 8 514
Efficiency (lm/W)	100 - 124
Color temperature (K)	2 700, 4 000, 5 000
CRI	>75
Weight (lbs)	7.30 - 13.90

5 yrs warranty

LED *fixture*

IP 65

IP 67

ICES *005*

IK08

c UL LISTED

MARINE UL LISTED

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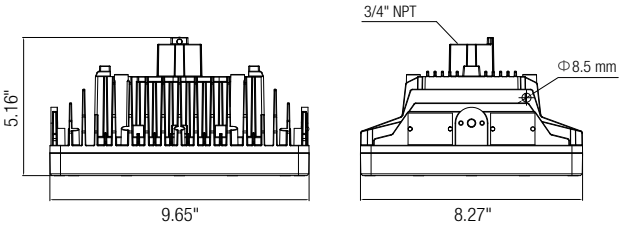
DIMENSIONS

GLASS LENS



Lens type	Lumen package	Net Weight (lbs)	Dimensions (LxWxH) (in)
Glass lens	1 (21 W)	10.50	9.7 x 8.3 x 5.1
	2 (40 W)	10.80	
	3 (50 W)	11.70	
	4 (60 W)	11.70	

MOUNTINGS

PENDANT MOUNT
(STANDARD)

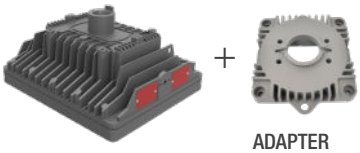
ACCESSORIES REQUIRED FOR OPTIONAL MOUNTING

CEILING MOUNT
BKT836

GLASS LENS

MULTI MOUNT

PENDANT MOUNT AND ADAPTER (BKT837)
FOR ALL THE FOLLOWING MOUNTINGS:



ADAPTER
BKT837

CEILING MOUNT
JB018

WALL MOUNT
BKT771-25 or
BKT771-90

25˚

90˚

POLE MOUNT (25˚ ANGLE)
BKT772-P166 or
BKT772-P1900

POLE MOUNT (90˚ ANGLE)
BKT773-P166 or
BKT773-P1900

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions.
All products are subject to change or may be discontinued any time without notice.

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ORDERING GUIDE

CXM						GY	

Series	Lumen package (W)	Distribution type	Volt (V)	Hazloc	Color temp. (K)	Casting color	Lens options
CXM	**1 -** 21 **2 -** 40 **3 -** 50 **4 -** 60	**2 -** Type II [1] **3 -** Type III [1] **5 -** Type V	**W -** 120-277 **I -** 347-480 **W -** 120-277	**D -** CID1, CID2, CIID1 **E -** CID2, CIID1	**27K -** 2 700 **40K -** 4 000 **50K -** 5 000	**GY -** Grey	**TG -** Transparent flat glass lens [2] **FG -** Diffuse flat glass lens [2]

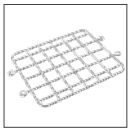
[1] Type II and III only available with TG lens option
[2] TG and FG lens options are only available with hazloc D

ACCESSORIES FOR MOUNTING (order separately)

Mounting	Part number	Type
PENDANT MOUNT	BKT836	U-Bracket (SUS 304)
	WGD078-F	Stainless steel wireguard (Glass lens)
	HAR1117	Stainless steel safety cable kit
	BKT838	Pipe clamps for pole 1-7/8" [1]
	BKT775	Pipe clamps for pole 2-3/8" [1]

[1] Two (2) pipe clamps per box

BKT836
U-Bracket



WGD078-F
Wireguard
Glass lens

HAR1117
Stainless steel
safety cable kit

BKT838 or BKT775
Stanchion mount
pipe clamp

Mounting	Part number	Type
MULTI MOUNT	BKT837	Adapter for multi mount [2]
	JB018	Junction box NPT 3/4"
	BKT771-25	Wall mount - 25°
	BKT771-90	Wall mount - 90°
	BKT772-P166	Stanchion - 25° (NPT 1.25")
	BKT772-P1900	Stanchion - 25° (NPT 1.50")
	BKT773-P166	Stanchion - 90° (NPT 1.25")
	BKT773-P1900	Stanchion - 90° (NPT 1.50")
	WGD078-F	Stainless steel wireguard (Glass lens)
	HAR1117	Stainless steel safety cable kit

[2] Mandatory for any Multi mount mountings

BKT837
Adapter for
multi mount [2]

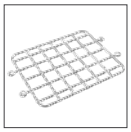
JB018
Junction box
NPT 3/4"

BKT771-25
Wall mount - 25°

BKT771-90
Wall mount - 90°

BKT772-P166 or
BKT772-P1900
Stanchion - 25°

BKT773-P166 or
BKT773-P1900
Stanchion - 90°



WGD078-F
Wireguard
Glass lens

HAR1117
Stainless steel
safety cable kit

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TECHNICAL SPECIFICATION TABLE

Lumen package	Distribution type	Lens type	Watts (W)	Volts (VAC)	LED current (mA)	Lumen output (lm)	Efficiency (lm/w)	CRI	Life L70 (hrs)	Tested hours LM80 (hrs)	Power factor	THD (%)	B.U.G. rating	# of LEDs
2 700 K														
1	2	Clear glass	21	120-277	113	3 151	147	>75	>300 000	10 000	0.99	<20	B1-U0-G0	60
	3		21	120-277	113	2 960	138	>75	>300 000	10 000	0.99	<20	B1-U0-G1	60
	5		21	120-277	113	3 279	153	>75	>300 000	10 000	0.99	<20	B2-U0-G0	60
2	2		40	120-277	117	5 831	142	>75	>230 000	10 000	0.99	<20	B2-U0-G0	108
	3		40	120-277	117	5 452	133	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
	5		40	120-277	117	6 037	147	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
3	2		50	347-480	100	6 760	137	>75	>170 000	10 000	0.99	<20	B3-U0-G0	138
	3		50	347-480	100	6 396	130	>75	>170 000	10 000	0.99	<20	B2-U0-G1	138
	5		50	347-480	100	7 051	143	>75	>170 000	10 000	0.96	<20	B3-U0-G1	138
4	2		60	120-277	124	7 607	138	>75	>130 000	10 000	0.99	<20	B3-U0-G0	138
	3		60	120-277	124	7 245	131	>75	>130 000	10 000	0.99	<20	B2-U0-G1	138
	5		60	120-277	124	8 062	145	>75	>130 000	10 000	0.99	<20	B3-U0-G1	138
1	5	Diffuse glass	21	120-277	113	2 648	123	>75	>300 000	10 000	0.99	<20	B1-U0-G0	60
2			40	120-277	117	4 860	119	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
3			50	347-480	100	5 694	115	>75	>170 000	10 000	0.96	<20	B2-U0-G1	138
4			60	120-277	124	6 483	117	>75	>130 000	10 000	0.99	<20	B3-U0-G1	138
4 000 K														
1	2	Clear glass	21	120-277	113	3 269	150	>75	>300 000	10 000	0.99	<20	B2-U0-G0	60
	3		21	120-277	113	3 133	144	>75	>300 000	10 000	0.99	<20	B1-U0-G1	60
	5		21	120-277	113	3 398	156	>75	>300 000	10 000	0.99	<20	B2-U0-G0	60
2	2		40	120-277	117	5 937	145	>75	>230 000	10 000	0.99	<20	B2-U0-G0	108
	3		40	120-277	117	5 625	137	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
	5		40	120-277	117	6 246	152	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
3	2		50	347-480	100	6 972	141	>75	>170 000	10 000	0.99	<20	B3-U0-G0	138
	3		50	347-480	100	6 450	131	>75	>170 000	10 000	0.99	<20	B2-U0-G1	138
	5		50	347-480	100	7 292	148	>75	>170 000	10 000	0.96	<20	B3-U0-G1	138
4	2		60	120-277	124	7 990	144	>75	>130 000	10 000	0.99	<20	B3-U0-G0	138
	3		60	120-277	124	7 465	135	>75	>130 000	10 000	0.99	<20	B2-U0-G1	138
	5		60	120-277	124	8 383	151	>75	>130 000	10 000	0.99	<20	B3-U0-G1	138
1	5	Diffuse glass	21	120-277	113	2 761	127	>75	>300 000	10 000	0.99	<20	B1-U0-G0	60
2			40	120-277	117	5 053	123	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
3			50	347-480	100	5 880	119	>75	>170 000	10 000	0.96	<20	B2-U0-G1	138
4			60	120-277	124	6 766	122	>75	>130 000	10 000	0.99	<20	B3-U0-G1	138
5 000 K														
1	2	Clear glass	21	120-277	113	3 363	155	>75	>300 000	10 000	0.99	<20	B2-U0-G0	60
	3		21	120-277	113	3 210	148	>75	>300 000	10 000	0.99	<20	B1-U0-G1	60
	5		21	120-277	113	4 220	162	>75	>300 000	10 000	0.99	<20	B2-U0-G0	60
2	2		40	120-277	117	6 162	153	>75	>230 000	10 000	0.99	<20	B2-U0-G0	108
	3		40	120-277	117	5 991	149	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
	5		40	120-277	117	6 499	160	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
3	2		50	347-480	100	6 948	146	>75	>170 000	10 000	0.99	<20	B3-U0-G0	138
	3		50	347-480	100	6 519	137	>75	>170 000	10 000	0.99	<20	B2-U0-G1	138
	5		50	347-480	100	7 179	151	>75	>170 000	10 000	0.96	<20	B3-U0-G1	138
4	2		60	120-277	124	8 112	147	>75	>130 000	10 000	0.99	<20	B3-U0-G0	138
	3		60	120-277	124	7 839	142	>75	>130 000	10 000	0.99	<20	B2-U0-G1	138
	5		60	120-277	124	8 514	154	>75	>130 000	10 000	0.99	<20	B3-U0-G1	138
1	5	Diffuse glass	21	120-277	113	2 761	127	>75	>300 000	10 000	0.99	<20	B1-U0-G0	60
2			40	120-277	117	5 053	123	>75	>230 000	10 000	0.99	<20	B2-U0-G1	108
3			50	347-480	100	5 880	119	>75	>170 000	10 000	0.96	<20	B2-U0-G1	138
4			60	120-277	124	6 766	122	>75	>130 000	10 000	0.99	<20	B3-U0-G1	138

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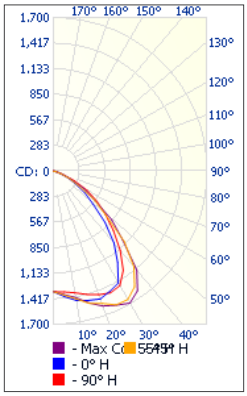
PHOTOMETRIC DATA[1]

CXM12XX40KGYTG • 3 245.1 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 150.8	35.5%
0-40	1 894.7	58.4%
0-60	2 969.2	91.5%
60-90	275.9	8.5%
70-100	63.3	1.9%
90-120	0.0	0%
0-90	3 245.1	100%
90-180	0.0	0%
0-180	3 245.1	100%

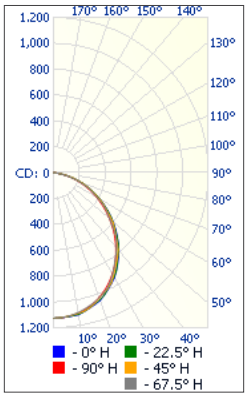
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	4.65	23.7'	36.6'
34.0'	1.16	47.4'	73.3'
51.0'	0.52	71.0'	109.9'
68.0'	0.29	94.7'	146.6'
85.0'	0.19	118.4'	183.2'
102.0'	0.13	142.1'	219.9'

Vert. spread: 69.7°
Horiz. spread: 94.3°

CXM13XX40KGYTG • 3 065.7 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	649.9	21.2%
0-40	1 171.5	38.2%
0-60	2 524.4	82.3%
60-90	541.3	17.7%
70-100	122.7	4%
90-120	0.0	0%
0-90	3 065.7	100%
90-180	0.0	0%
0-180	3 065.7	100%

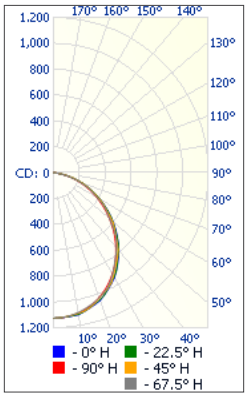
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	2.65	36.0'	54.6'
34.0'	0.66	72.0'	109.2'
51.0'	0.29	108.0'	163.8'
68.0'	0.17	144.0'	218.4'
85.0'	0.11	180.0'	273.0'
102.0'	0.07	216.0'	327.5'

Vert. spread: 93.3°
Horiz. spread: 116.2°

CXM15XX40KGYFG • 2 872.7 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	868.0	30.2%
0-40	1 400.5	48.8%
0-60	2 377.1	82.7%
60-90	495.7	17.3%
0-90	2 872.7	100%

Illuminance at a distance

	Center beam fc	Beam width	
17.0'	3.91	44.0'	41.2'
34.0'	0.98	88.0'	82.5'
51.0'	0.43	132.0'	123.7'
68.0'	0.24	176.0'	165.0'
85.0'	0.16	220.0'	206.2'
102.0'	0.11	264.0'	247.5'

Vert. spread: 104.6°
Horiz. spread: 101.0°

[1] Complete IES files available on our website.

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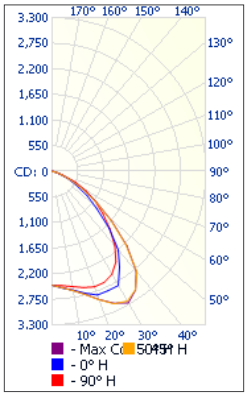
PHOTOMETRIC DATA[1]

CXM22XX40KGYTG • 5 984.4 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 085.3	34.8%
0-40	3 450.9	57.7%
0-60	5 477.6	91.5%
60-90	506.7	8.5%
70-100	113.6	1.9%
90-120	0.0	0%
0-90	5 984.3	100%
90-180	0.0	0%
0-180	5 984.4	100%

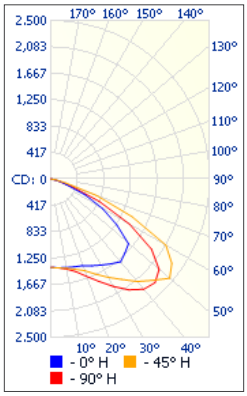
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	8.51	23.0'	35.6'
34.0'	2.13	45.9'	71.2'
51.0'	0.95	68.9'	106.9'
68.0'	0.53	91.8'	142.5'
85.0'	0.34	114.8'	178.1'
102.0'	0.24	137.8'	213.7'

Vert. spread: 68.1°
Horiz. spread: 92.7°

CXM23XX40KGYTG • 5 741.7 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 245.4	21.7%
0-40	2 273.0	39.6%
0-60	4 801.7	83.6%
60-90	939.9	16.4%
70-100	209.9	3.7%
90-120	0.0	0%
0-90	5 741.7	100%
90-180	0.0	0%
0-180	5 741.7	100%

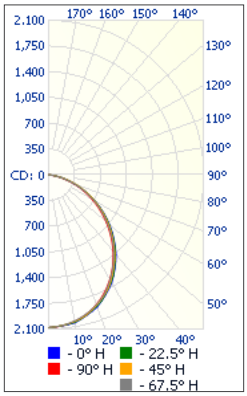
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	4.86	32.7'	49.3'
34.0'	1.21	65.4'	98.6'
51.0'	0.54	98.1'	147.9'
68.0'	0.30	130.8'	197.3'
85.0'	0.19	163.5'	246.6'
102.0'	0.13	196.2'	295.9'

Vert. spread: 87.8°
Horiz. spread: 110.8°

CXM25XX40KGYFG • 5 126.5 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 582.0	30.9%
0-40	2 544.0	49.6%
0-60	4 285.9	83.6%
60-90	840.6	16.4%
0-90	5 126.5	100%

Illuminance at a distance

	Center beam fc	Beam width	
17.0'	7.22	42.3'	39.8'
34.0'	1.81	84.6'	79.5'
51.0'	0.80	127.0'	119.3'
68.0'	0.45	169.3'	159.1'
85.0'	0.29	211.6'	198.8'
102.0'	0.20	253.9'	238.6'

Vert. spread: 102.4°
Horiz. spread: 98.9°

[1] Complete IES files available on our website.

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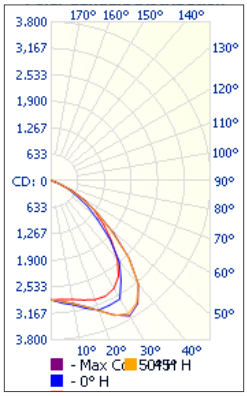
PHOTOMETRIC DATA[1]

CXM32XX40KGYTG • 6 888.4 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 404.5	34.9%
0-40	3 987.4	57.9%
0-60	6 335.6	92%
60-90	552.8	8%
70-100	119.6	1.7%
90-120	0.0	0%
0-90	6 888.4	100%
90-180	0.0	0%
0-180	6 888.4	100%

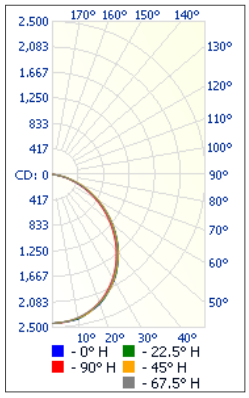
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	9.88	23.3'	35.4'
34.0'	2.47	46.7'	72.7'
51.0'	1.10	70.0'	109.1'
68.0'	0.62	93.4'	145.4'
85.0'	0.40	116.7'	181.8'
102.0'	0.27	140.1'	218.1'

Vert. spread: 68.9°
Horiz. spread: 93.8°

CXM33XX40KGYTG • 6 310.6 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 375.6	21.8%
0-40	2 466.4	39.1%
0-60	5 243.8	83.1%
60-90	1 066.8	16.9%
70-100	237.1	3.8%
90-120	0.0	0%
0-90	6 310.6	100%
90-180	0.0	0%
0-180	6 310.6	100%

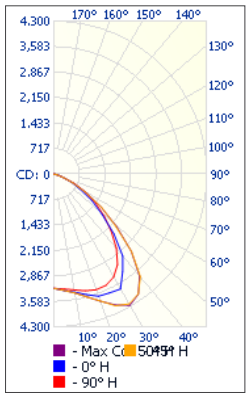
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	5.66	33.1'	50.6'
34.0'	1.41	1.41'	101.2'
51.0'	0.63	0.63'	151.8'
68.0'	0.35	0.35'	202.4'
85.0'	0.23	0.23'	253.0'
102.0'	0.16	0.16'	303.6'

Vert. spread: 88.4°
Horiz. spread: 112.2°

CXM35XX40KGYFG • 6 119.9 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 868.7	30.5%
0-40	3 014.2	49.3%
0-60	5 101.5	83.4%
60-90	1 018.4	16.6%
0-90	6 119.9	100%

Illuminance at a distance

	Center beam fc	Beam width	
17.0'	8.45	42.8'	40.9'
34.0'	2.11	85.7'	81.7'
51.0'	0.94	128.5'	122.6'
68.0'	0.53	171.4'	163.4'
85.0'	0.34	214.2'	204.3'
102.0'	0.23	257.0'	25.1'

Vert. spread: 103.1°
Horiz. spread: 100.5°

[1] Complete IES files available on our website.

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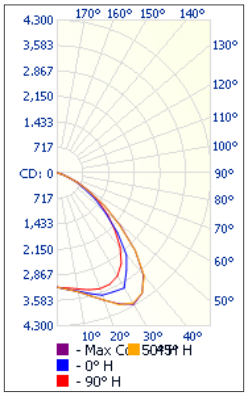
PHOTOMETRIC DATA[1]

CXM42XX40KGYTG • 7 964.0 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 739.3	34.4%
0-40	4 554.2	57.2%
0-60	7 294.8	91.6%
60-90	669.1	8.4%
70-100	150.9	1.9%
90-120	0.0	0%
0-90	7 964.0	100%
90-180	0.0	0%
0-180	7 964.0	100%

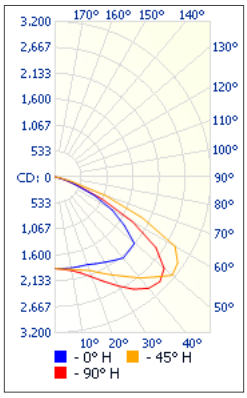
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	11.2	23.7'	36.2'
34.0'	2.79	47.5'	72.5'
51.0'	1.24	71.2'	108.7'
68.0'	0.70	95.0'	145.0'
85.0'	0.45	118.7'	181.2'
102.0'	0.31	142.4'	217.5'

Vert. spread: 69.8°
Horiz. spread: 93.7°

CXM43XX40KGYTG • 7 637.1 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1 661.0	21.7%
0-40	3 010.8	39.4%
0-60	6 356.2	83.2%
60-90	1 280.8	16.8%
70-100	294.5	3.9%
90-120	0.0	0%
0-90	7 637.0	100%
90-180	0.0	0%
0-180	7 637.1	100%

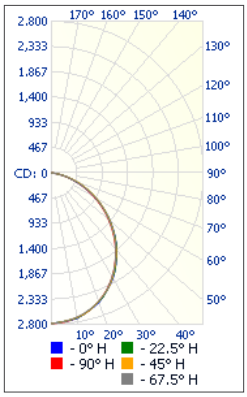
Illuminance at a distance

	Center beam fc	Beam width	
17.0'	6.53	35.0'	49.4'
34.0'	1.63	69.9'	98.7'
51.0'	0.73	104.9'	148.1'
68.0'	0.41	139.8'	197.5'
85.0'	0.26	174.8'	246.8'
102.0'	0.18	209.7'	296.8'

Vert. spread: 91.6°
Horiz. spread: 110.9°

CXM45XX40KGYFG • 6 810.2 lm

Polar candela distribution



Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 116.7	31.1%
0-40	3 403.3	50%
0-60	5 724.6	84.1%
60-90	1 085.6	15.9%
0-90	6 810.2	100%

Illuminance at a distance

	Center beam fc	Beam width	
17.0'	9.67	41.5'	40.3'
34.0'	2.42	83.0'	80.6'
51.0'	1.07	124.4'	121.0'
68.0'	0.60	165.9'	161.3'
85.0'	0.39	207.4'	201.6'
102.0'	0.27	248.9'	241.9'

Vert. spread: 101.3°
Horiz. spread: 99.7°

[1] Complete IES files available on our website.

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