

Areamaster™ LED Flood/High Bay Luminaires

For Hazardous Locations. 250 W, 400 W, 750 W HID Light Level Equivalent

NEC/CEC:

Class I, Division 2, Groups A, B, C, D
Class I, Zone 2 AEx nA IIC, Ex nA IIC
Type 3R, 4, 4X
IP66/67

NEC:

Marine Outside Type (Salt Water)
Wet Locations

ATEX/IECEX:

II 3 G
Ex nA IIC T4 Gc
Ta -25 °C to +40 °C
(-13 °F to +104 °F)
IP66

NBR IEC:

Zone 2 – 21 and 22
Ex nA IIC Gc
Ex tb IIIC Db
IP66

Applications

- Typical applications include:
 - Pulp and paper mills
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Foundries
 - Food processing plants
 - Storage areas
 - Waste and sewage treatment
 - Parking garages
 - Other areas where water, dirt and rough usage are a problem

Features

- Compact in size, attractively styled contemporary design, rugged and dependable.
- Easy to install and service.
- One-piece housing.
- One-piece lens in hinged cover. Secured by four M6 captive stainless steel slotted hex-head bolts.
- Thermal shock- and impact-resistant glass lens standard.
- Diffused polycarbonate lens available as an option.
- Heavy duty, high temperature silicone rubber gasket, mechanically secured.
- Universal design for flood and high bay mounting.
- Floodlight Mounting:
 - Yoke mount, zinc plated steel yoke with architectural bronze polyester finish.
- High Bay Mounting:
 - (1) Conduit entry on back of luminaire with locking set screw.
 - Rotate yoke up or remove.
- Chain Mounting:
 - Mounts via eyebolts threaded into the corners of the fixture.
 - Available with chain mounting, or as an accessory.
 - Rotate yoke up or remove.
- Cool operating temperatures translate into long luminaire life.
- NEC/CEC versions available with a total of three (3) 3/4" NPT entries with integral bushings.
- ATEX/IECEX version provided with one (1) 3/4" NPT/M20 adapter and two (2) close up plugs.
- Two (2) 3/4" NPT aluminum close up plugs provided.
- Electrical:
 - NEC/CEC: 120-277 Vac, 50/60 Hz; 347-480 Vac, 50/60 Hz.; 250 Vdc available on AMLED77YBC.
 - ATEX/IECEX and NBR IEC: 220-240 Vac, 50/60 Hz.
- Terminal block (screw type for secure connection) can accept UL/CSA 24-10AWG and IEC 0.2 - 4 mm².

Standard Materials

- Housing and lens door: copperfree (4/10 of 1% max.) aluminum
- Gasket: silicone rubber
- Reflector: metallized high reflectance finish
- Yoke mount: zinc plated steel
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided

Standard Finishes

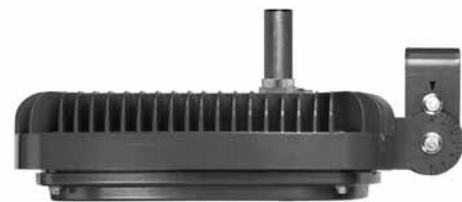
- Housing, lens cover and yoke mount: architectural bronze polyester

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 8750, UL 844
- UL Listed: E10794
- CSA Standards: C22.2 No. 250.0, C22.2 No. 137



Floodlight



High Bay

- Ambient Temperature: AMLED67 and AMLED77 -40 °C to +65 °C (-40 °F to +149 °F); AMLED87 -40 °C to +55 °C (-40 °F to +131 °F)

ATEX/IECEX Certifications and Compliances

- Gas
 - Conforming to ATEX 94/9/EC: II 3 G
 - ATEX Protection: Ex nA IIC
 - T Rating: T4 (Ta < +40 °C) (Ta < +104 °F)
 - Ambient Temperature: -25 °C < Ta < 40 °C (-13 °F < Ta < 104 °F)
 - ATEX Certificate: DEMKO 12 ATEX 1225382
 - Index of Protection: IP66
 - CE Declaration of Conformity: 12-01
 - Ex Standards: EN/IEC 60079-0 2009; 60079-15:2010
 - Product Standards: EN/IEC 60598-1; 60598-2-22
 - EMC Standards: EN/IEC 55015; 61547
 - Other Standards: EN/IEC 60529; 1991/A1 2000 (IP)

NBR IEC Brazilian Certifications and Compliances

- Certification Type: AMLED
 - Gas: Zone 2
 - IEC Marking: Ex nA IIC Gc
 - T Rating: T4
 - Dust: Zone 21 and 22
 - IEC Marking: Ex tb IIIC Db
 - Surface Temperature: T135°C (275°F)
- Ambient Temperature: -25°C to +40°C (-13°F to +104°F)
- Ingress Protection (solid and liquid): IP66
- INMETRO Certificate: TUV 13.0455
- Ex Standards: ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-15, ABNT NBR IEC 60079-31
- Other Standards: ABNT NBR IEC 60529 (IP)

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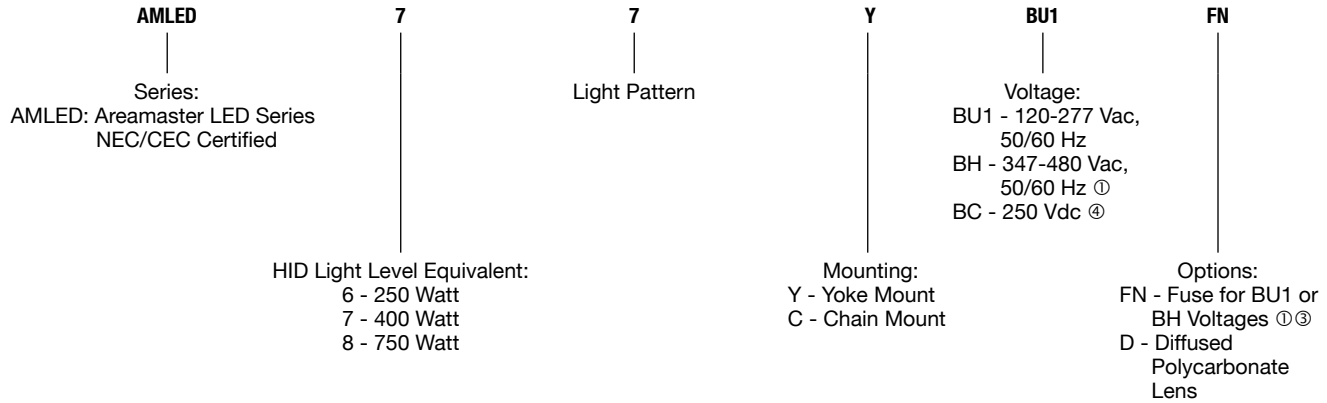
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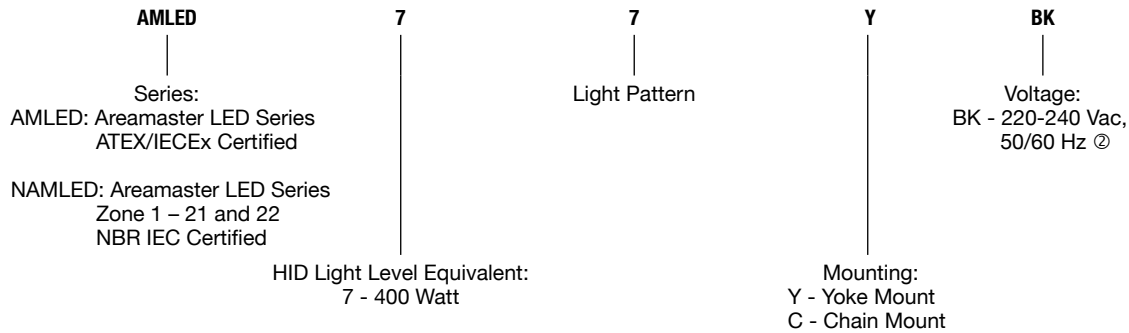
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 Zone 2 – 21 and 22
 Ex nA IIC Gc
 Ex tb IIC Db
 IP66

Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide – NEC/CEC Certified Areamaster LED



Catalog Numbering Guide – ATEX/IECEX and NBR IEC Brazilian Certified Areamaster LED



① Not available for use on the 750 Watt equivalent.
 ② 220-240 Vac, 50/60 Hz voltage is certified for use on the ATEX/IECEX and NBR IEC 400 Watt equivalent fixtures.
 ③ Canadian Electrical Code does NOT allow fusing in hazardous locations Ⓜ. Fuse not CEC rated.
 ④ Not available for use on the 250 and 750 Watt equivalent.

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Ex tb IIIC Db
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Technical Data

Catalog Number	Lamp		NEC/CEC					ATEX/IECEX and NBR IEC		
			Ambient Temperature °C (°F)	Supply Wire Temperature °C (°F)	Class I, Division 2 ①	Gas		Dust		Gas
						Line Voltage	Type	Groups	ExnA IIC AExnA IIC	Class II, Division 1 Groups E,F,G
AMLED67YBU1	120-277 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	T4	—	—	—
			55 (131)	90 (194)	T3C	A,B,C,D	T3	—	—	—
			65 (149)	90 (194)	T3C	A,B,C,D	T3	—	—	—
AMLED67YBH	347-480 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	T4	—	—	—
			55 (131)	90 (194)	T3C	A,B,C,D	T3	—	—	—
			65 (149)	105 (221)	T3C	A,B,C,D	T3	—	—	—
AMLED77YBU1	120-277 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	T4	—	—	—
			55 (131)	90 (194)	T3C	A,B,C,D	T3	—	—	—
			65 (149)	105 (221)	T3C	A,B,C,D	T3	—	—	—
AMLED77YBH	347-480 Vac	LED	40 (104)	75 (167)	T4	A,B,C,D	T4	—	—	—
			55 (131)	90 (194)	T3C	A,B,C,D	T3	—	—	—
			65 (149)	105 (221)	T3C	A,B,C,D	T3	—	—	—
AMLED77YBK NAMLED77YBK	220-240 Vac	LED	40 (104)	60 (140)	T4	A,B,C,D	T4	—	T4	IIC
AMLED77YBC	250 Vdc	LED	40 (104)	75 (167)	T4A	A,B,C,D	T4	—	—	—
AMLED87YBU1	120-277 Vac	LED	40 (104)	75 (167)	T3C	A,B,C,D	T3	—	—	—
			55 (131)	90 (194)	T3A	A,B,C,D	T3	—	—	—

“T” Numbers Represent the Maximum Internal Temperature ① or Maximum Surface Temperature ②

“T” Number	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-12	185

“T” Number	ATEX/IECEX and NBR IEC					
	T1	T2	T3	T4	T5	T6
Temp. Range (°C)	301-450	201-300	136-200	101-135	86-100	85
Temp. Range (°F)	547-842	394-572	277-392	214-275	187-212	185

① T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

② T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

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Electrical Specifications – Flood Mount






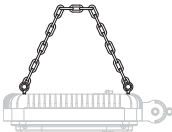
Catalog Number	Voltage Range	Frequency (Hz)	Watts Input Power (Nom.)	Input Amps (Max.)	Total Harmonic Distortion	Power Factor
AMLED67YBU1	120-277 Vac	50/60	76/74	0.64 - 0.32	0.5	> 0.98
AMLED67YBH	347-480 Vac	50/60	76/76	0.22 - 0.16	0.5	> 0.96
AMLED77YBU1	120-277 Vac	50/60	125/121	1.10 - .047	0.5	> 0.98
AMLED77YBH	347-480 Vac	50/60	120/119	0.35 - 0.25	0.5	> 0.96
AMLED77YBK NAMLED77YBK	220-240 Vac	50/60	117	0.53 - 0.48	0.5	> 0.98
AMLED77YBC	250 Vdc	—	118	0.47	0.5	> 0.98
AMLED87YBU1	120-277 Vac	50/60	174/169	1.60 - 0.70	0.5	> 0.98

Line Voltage	NEC/CEC	Catalog Number ATEX/IECEX	NBR IEC
120-277 Vac, 50/60 Hz	AMLED67YBU1	—	—
120-277 Vac, 50/60 Hz	AMLED77YBU1	—	—
120-277 Vac, 50/60 Hz	AMLED87YBU1	—	—
347-480 Vac, 50/60 Hz	AMLED67YBH	—	—
347-480 Vac, 50/60 Hz	AMLED77YBH	—	—
250 Vdc	AMLED77YBC	—	—
220-240 Vac, 50/60 Hz	—	AMLED77YBK	NAMLED77YBK



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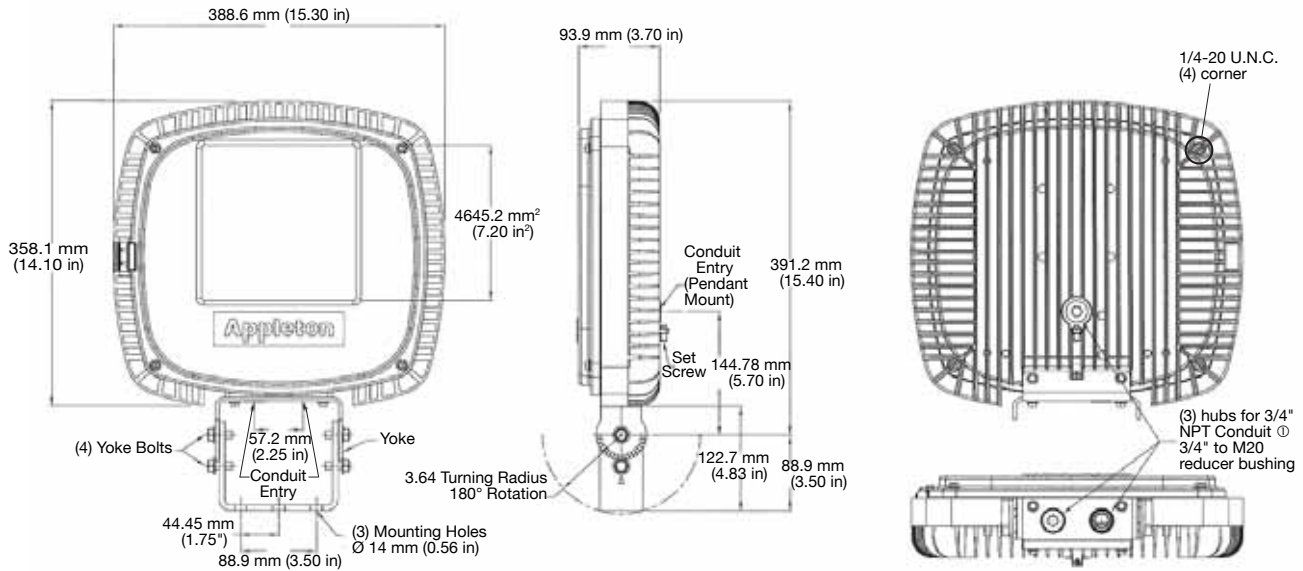
Accessories and Replacement Parts				
	Description	Catalog Number		
		NEC/CEC, ATEX/IEC	NBR IEC	
Crossarm Mounting Bracket				
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to G-AM-8-WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	G-AM-8-CA	NGAM8CA	
Pipe or Wall Mount Bracket				
	Used with G-AM-8-CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	G-AM-8-WB	NGAM8WB	
Poletop Slip-Fitter				
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	G-SF20	—	
	Slip-fits 1" or 1-1/2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	AMLEDSF1	—	
Poletop Slip-Fitter				
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	G-AM-8-SF	—	
Chain				
	Chain mount assembly comes with two (2) 914.4 mm (36 inch) long chains, four (4) eye bolts, four (4) hex bolts, four (4) lock washers, four (4) hex nuts, eight (8) plain washers and an instruction sheet for complete assembly and mounting. Chains are galvanized steel, eye bolts are zinc plated steel, all other hardware is stainless steel.	AMLEDCM	NAMLEDCM	
Description		NEC/CEC	Catalog Number ATEX/IEC	NBR IEC
LED Array				
With White LED's for the AMLED67		AMLED67AW	—	—
With White LED's for the AMLED77		AMLED77AW	AMLED77AW	NAMLED77AW
With White LED's for the AMLED87		AMLED87AW	—	—
Drivers				
120 - 277 Vac — BU Version		AMLED77DBU	—	—
120 - 277 Vac — BU1 Version — AMLED87: Left Side — AMLED67, AMLED77		AMLEDDBU1L	—	—
120 - 277 Vac — BU1 Version — AMLED87: Right Side		AMLEDDBU1R	—	—
220 - 240 Vac — BK Version		AMLED77DBK	AMLED77DBK	NAMLED77DBK
347 - 480 Vac — BH Version		AMLED77DBH	—	—
Door Assembly				
With a Glass Lens, Pins		AMLEDMDOOR	AMLEDMDOOR	NAMLEDMDOOR
With a Polycarbonate Lens, Pins		AMLEDMDOORP	—	—

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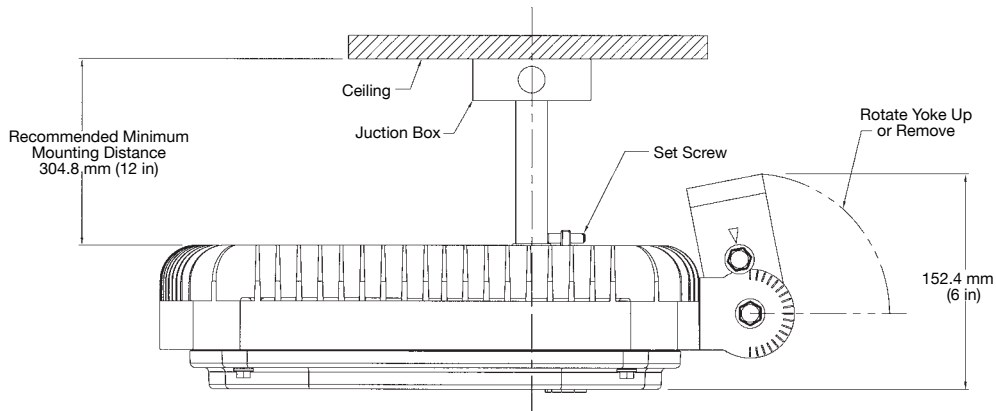
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Dimensions in Millimeters (Inches)

Floodlight



High Bay Pendant Mount



① 3/4" NPT/M20 adapter supplied for ATEX version.

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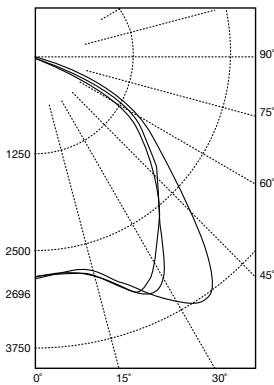
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Photometric Data — DATA SHOWN IS ABSOLUTE

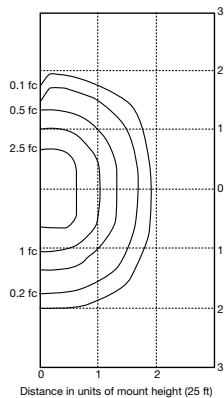
REPORT NUMBER: AMLED67YBU1_FLOOD

Lamps: Areamaster, High Bay Mount, LED Board 39 LEDs, Specular Reflector 6–1/2 X 6–1/2 Tapered To 3–1/2 X 3–1/2, Lens Clear
 Luminaire Lumens 8238

POLAR CANDELA DISTRIBUTION



ISOCANDELA CURVES



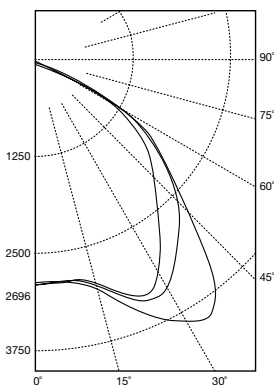
Zonal Lumen and Percentage at 25 °C (77 °F)

Zone	Lumens	% Lamp	% Fixture
0-10	245.6	N.A.	3.0
10-20	771.8	N.A.	9.4
20-30	1431	N.A.	17.4
30-40	1842	N.A.	22.4
40-50	1785	N.A.	21.7
50-60	1448	N.A.	17.6
60-70	667.1	N.A.	8.1
70-80	43.8	N.A.	0.5
80-90	4.5	N.A.	0.1

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POLAR CANDELA DISTRIBUTION



Zonal Lumen Summary and Percentage at 25 °C (77 °F)

Zone	Lumens	% Lamp	% Fixture
0-30	2434	N.A.	29.2
0-40	4283	N.A.	51.6
0-60	7553	N.A.	90.6
60-90	780	N.A.	9.4
0-90	8333	N.A.	100.0
90-180	0	N.A.	0
0-180	8333	N.A.	100.0

Zonal Lumen and Percentage at 25 °C (77 °F)

Zone	Lumens	% Lamp	% Fixture
0-10	244.8	N.A.	2.9
10-20	764.2	N.A.	9.2
20-30	1425	N.A.	17.1
30-40	1849	N.A.	22.2
40-50	1787	N.A.	21.4
50-60	1483	N.A.	17.8
60-70	731.0	N.A.	8.8
70-80	46.7	N.A.	0.6
80-90	2.4	N.A.	0.0

Areamaster™ LED Flood/High Bay Luminaire Photometric Data

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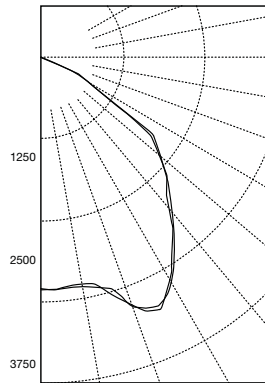
Lamps: Areamaster, High Bay Mount, LED Board 56 LEDs, Specular Reflector 6–1/2 X 6–1/2 Tapered To 3–1/2 X 3–1/2, Lens Clear

Characteristics: Maximum Candela: 5818; Maximum Candela Angle: 22.5 H 25.5 V; Horizontal Beam Angle (50%): 97.0; Vertical Beam Angle (50%): 102; Horizontal Field Angle (10%): 134; Vertical Field Angle (10%): 134; Beam Lumens 10414; Field Lumens 12967; Luminaire Lumens 13157

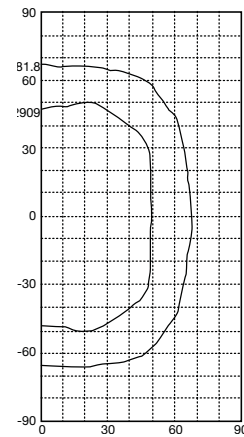
AXIAL CANDELA

DEG.	HOR.	VERT.
90.0	0	0
85.0	21	2
75.0	26	5
65.0	700	733
55.0	2400	2341
47.5	3023	2976
42.5	3375	3307
37.5	3838	3826
33.0	4312	4319
29.0	4670	4719
25.5	4964	4898
22.5	4910	4857
19.5	4700	4660
17.0	4456	4343
15.0	4273	4249
13.0	4184	4165
11.0	4154	4123
9.0	4139	4105
7.0	4124	4119
5.0	4127	4133
3.0	4138	4150
1.0	4149	4153
0.0	4149	4149

AXIAL CANDELA DISPLAY



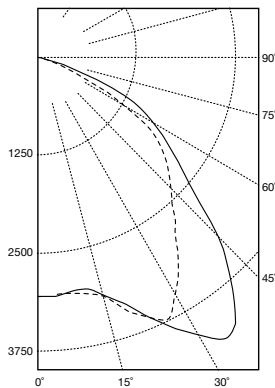
ISOCANDELA CURVES



CIE Type – Direct

Plane	Spacing Criteria
0 Deg	1.5
90 Deg	1.5

Zone	Lumens
0-5	98
5-10	290
10-15	485
15-20	711
20-25	993
25-30	1264
30-35	1440
35-40	1517
40-45	1471
45-50	1392
50-55	1283
55-60	1086
60-65	764
65-70	340
70-75	37
75-80	4
80-85	2
85-90	1



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Lamps: Areamaster, High Bay Mount, LED Board 56 LEDs, Specular Reflector 6–1/2 X 6–1/2 Tapered To 3–1/2 X 3–1/2, Lens Clear

Coefficients of Utilization – Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	% Walls Rw	Effective Floor Cavity Reflectance 0.20																		
		80				70				50				30				10		
0	119	119	119	119	116	116	116	116	111	111	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	93	92	90	88	
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65		
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37		
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	31	42	36	31	30		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	3841	N.A.	29.1	90-130	2	N.A.	0.0
0-40	6798	N.A.	51.5	90-150	6	N.A.	0.0
0-60	12029	N.A.	91.1	90-180	7	N.A.	0.1
0-90	13177	N.A.	99.8	0-180	13199	N.A.	100
90-120	1	N.A.	0.0				

Areamaster™ LED High Bay Luminaire Photometric Data

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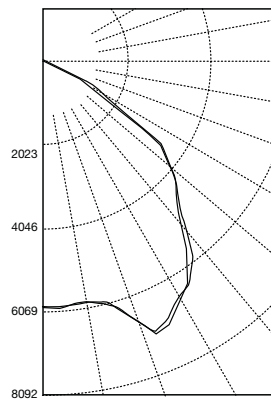
REPORT NUMBER: AMLED87YBU1_FLOOD

Lamps: Areamaster, Pendant Mount, LED Board 20 LEDs, Specular Reflector 6-1/2 X 6-1/2 Tapered To 3-1/2 X 3-1/2, Lens Clear

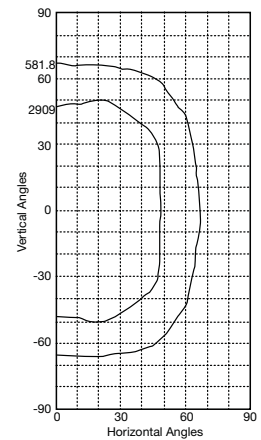
Characteristics: NEMA Type: 7Hx7V; Maximum Candela: 8092; Maximum Candela Angle: 25.5H 25.5V; Horizontal Beam Angle (50%): 97.3; Vertical Beam Angle (50%): 103; Horizontal Field Angle (10%): 137; Vertical Field Angle (10%): 136; Beam Lumens 14933; Field Lumens 18585; Luminaire Lumens 18842

AXIAL CANDELA		
DEG.	HOR.	VERT.
90	0	0
85	31	5
75	36	8
65	1239	938
55	3463	3477
47.5	4393	4345
42.5	4921	4831
37.5	5955	5752
33	6455	6392
29	6656	6778
25.5	6998	7087
22.5	7109	7158
19.5	6665	6664
17	6302	6222
15	6059	6108
13	6027	6044
11	5931	5942
9	5914	5938
7	5933	5956
5	5974	5975
3	6003	5995
1	6002	6004
0	5999	5999

AXIAL CANDELA DISPLAY



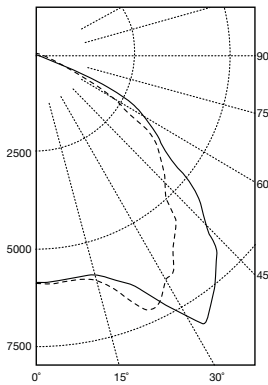
ISOCANDELA CURVES



CIE Type - Direct

Plane	Spacing Criteria
0-180	1.54
90-270	1.54

Zone	Lumens
0- 5	141
5- 10	419
10- 15	697
15- 20	1004
20- 25	1408
25- 30	1794
30- 35	2079
35- 40	2151
40- 45	2143
45- 50	2011
50- 55	1834
55- 60	1567
60- 65	1118
65- 70	514
70- 75	62
75- 80	3
80- 85	2
85- 90	1



REPORT NUMBER: AMLED87YBU1_HIGHBAY

Lamps: Areamaster, High Bay Mount, LED Board 20 LEDs, Specular Reflector 6-1/2 X 6-1/2 Tapered To 3-1/2 X 3-1/2, Lens Clear

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

% Ceiling Rcc	80	70	50	30	10	0
0	119	119	119	119	116	116
1	111	107	103	100	108	105
2	102	95	89	84	99	93
3	93	84	77	71	91	82
4	86	75	67	60	84	73
5	79	67	58	52	77	66
6	73	60	52	45	71	59
7	67	54	46	40	66	54
8	63	49	41	36	61	49
9	58	45	37	32	57	45
10	54	42	34	29	53	41

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture	Zone	Lumens	% Lamp	% Fixture
0-30	5462	N.A.	28.8	90-130	3	N.A.	0
0-40	9692	N.A.	51.2	90-150	5	N.A.	0
0-60	17247	N.A.	91.1	90-180	7	N.A.	0
0-90	18946	N.A.	100.1	0-180	18933	N.A.	100
90-120	2	N.A.	0				