

Industrial Areamaster™ LED Flood/High Bay Luminaires

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

NEC/CEC:
Type 3R, 4X
IP66, IP67
Suitable for use in Wet Locations
Marine Outside Type (Salt Water)

Applications

- Powerful, efficient weatherproof lighting for applications such as:
 - Security lighting
 - Production facilities
 - Warehouses
 - Processing plants
 - Storage areas
 - Parking garages and lots

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.
- Available with a total of three (3) 3/4" NPT entries with integral bushings.
- 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.
- 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



Floodlight



High Bay

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 1598A,
- CSA Standards: C22.2 No. 250.0
- cCSAus Certified: 164460

DesignLights™ Consortium (for the following models)

- IAMLED67YBU1
- IAMLED67YBU1D
- IAMLED77YBU1
- IAMLED77YBU1D
- IAMLED87YBU1
- IAMLED87YBU1D

LED/FLOODLIGHTS: NEC/CEC ORDINARY LOCATION

 **Appleton**

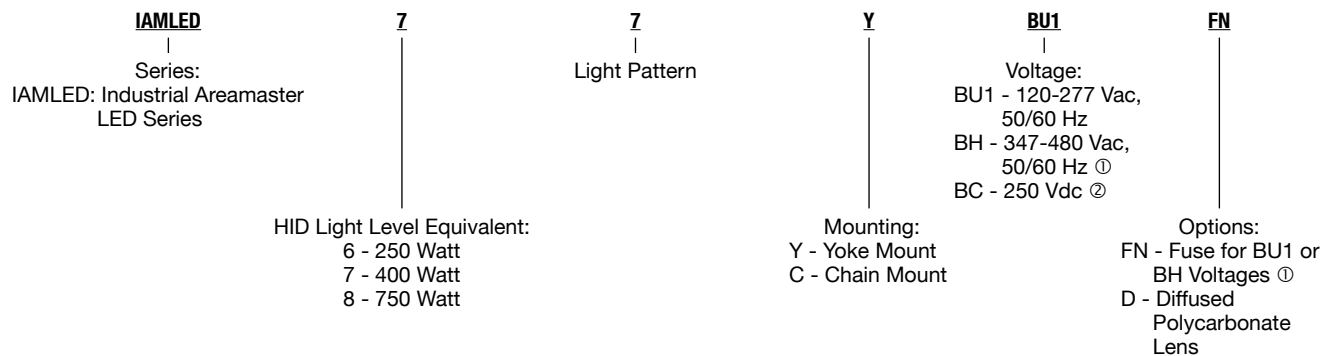
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Order using catalog numbering guide below or select catalog number from tables on following pages.

Catalog Numbering Guide — Industrial Areamaster LED



Electrical Specifications — Flood Mount

Catalog Number	Voltage Range	Frequency (Hz)	Watts Input Power (Nom.)	Input Amps (Max.)	Total Harmonic Distortion	Power Factor
IAMLED67YBU1	120-277 Vac	50/60	86/85	0.72 - 0.32	0.5	> 0.98
IAMLED67YBH	347-480 Vac	50/60	88/90	0.25 - 0.19	0.5	> 0.96
IAMLED77YBU1	120-277 Vac	50/60	125/121	1.10 - .047	0.5	> 0.98
IAMLED77YBH	347-480 Vac	50/60	124/125	0.35 - 0.25	0.5	> 0.96
IAMLED77YBC	250 Vdc	—	118	0.47	0.5	> 0.98
IAMLED87YBU1	120-277 Vac	50/60	176/175	1.60 - 0.70	0.5	> 0.98



Line Voltage	Catalog Number
120-277 Vac, 50/60 Hz	IAMLED67YBU1
120-277 Vac, 50/60 Hz	IAMLED77YBU1
120-277 Vac, 50/60 Hz	IAMLED87YBU1
347-480 Vac, 50/60 Hz	IAMLED67YBH
347-480 Vac, 50/60 Hz	IAMLED77YBH
250 Vdc	IAMLED77YBC

① Not available for use on the 750 Watt equivalent.

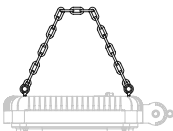
② Not available for use on the 250 and 750 Watt equivalent.

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Accessories and Replacement Parts

	Description	Catalog Number
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
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
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
LED Array		
	LED Array with White LED's for the IAMLED67	IAMLED67AW
	LED Array with White LED's for the IAMLED77	IAMLED77AW
	LED Array with White LED's for the IAMLED87	IAMLED87AW
Drivers		
	120 - 277 Vac Driver — BU1 Version — IAMLED87: Left Side — IAMLED67, IAMLED77	IAMLEDDBU1L
	120 - 277 Vac Driver — BU1 Version — IAMLED87: Right Side	IAMLEDDBU1R
	347 - 480 Vac Driver — BH Version	IAMLED77DBH
	250 Vdc Driver — BC Version	IAMLED77DBU
Door Assembly		
	Door Assembly with a Glass Lens, Pins	IAMLEDMDOOR
	Door Assembly with a Polycarbonate Lens, Pins	IAMLEDMDOORP

LED/FLOODLIGHTS: NEC/CEC ORDINARY LOCATION

Appleton®

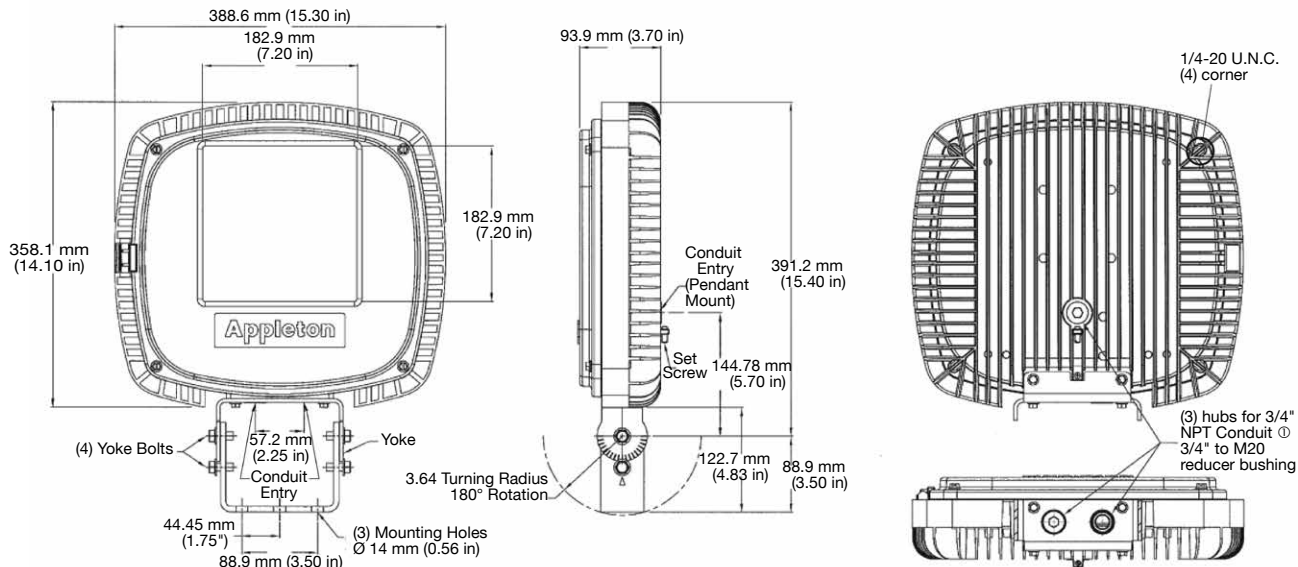
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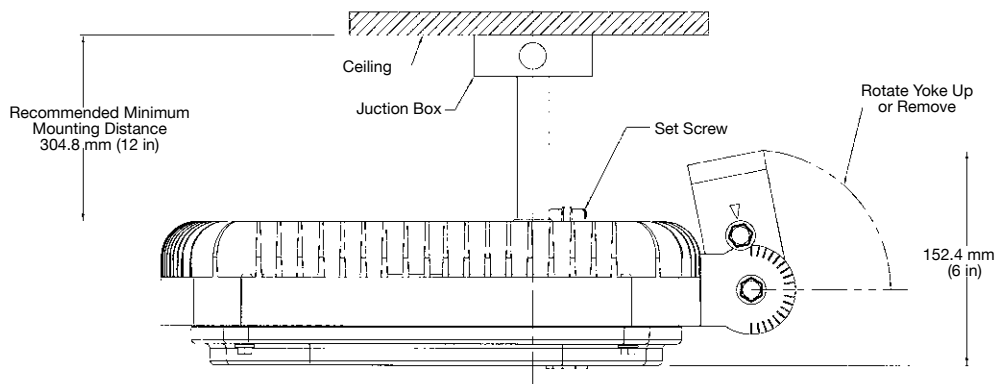
NEC/CEC:
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Dimensions in Millimeters (Inches)

Floodlight



High Bay Pendant Mount



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Marine Outside Type (Salt Water)

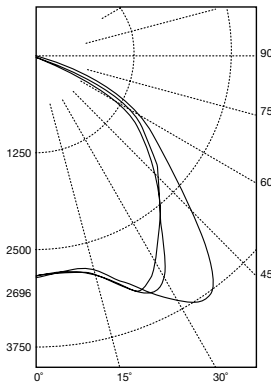
Photometric Data — DATA SHOWN IS ABSOLUTE

REPORT NUMBER: **IAMLED67YBU1_FLOOD**

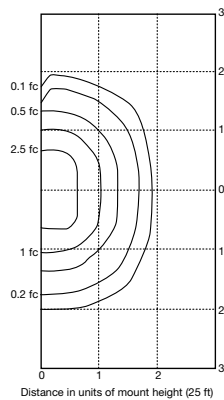
Lamps: Areamaster, High Bay Mount, LED Board 39 LEDs, Specular Reflector 6–1/2 X 6–1/2 Tapered To 3–1/2 X 3–1/2, Lens Clear

Luminaire Lumens 8238

POLAR CANDELA DISTRIBUTION



ISOCANDELA CURVES



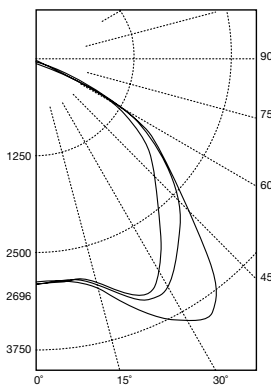
Zonal Lumen and Percentage at 25 °C (77 °F)

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

REPORT NUMBER: **IAMLED67YBU1_HIGHBAY**

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

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

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Suitable for use in Wet Locations
Marine Outside Type (Salt Water)

Photometric Data — DATA SHOWN IS ABSOLUTE

REPORT NUMBER: **IAMLED77YBU1_FLOOD**

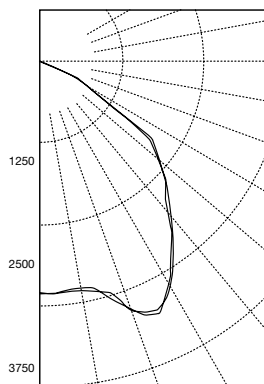
Lamps: Areamaster, High Bay Mount, LED Board 56 LEDs, Specular Reflector 6–1/2 X 6–1/2 Tapered To 3–1/2 X 3–1/2, Lens Clear

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

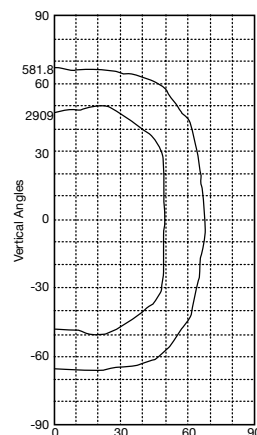
AXIAL CANDELA

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



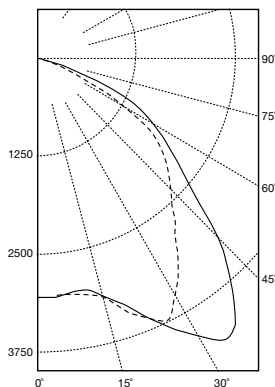
ISOCANDELA CURVES



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



REPORT NUMBER: **IAMLED77YBU1_HIGHBAY**

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

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				

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Marine Outside Type (Salt Water)

Photometric Data — DATA SHOWN IS ABSOLUTE

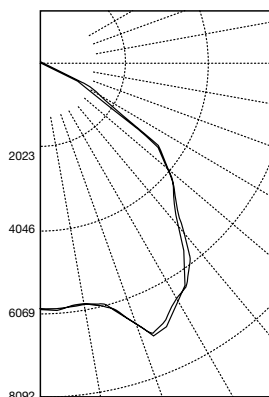
REPORT NUMBER: **IAMLED87YBU1_FLOOD**

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

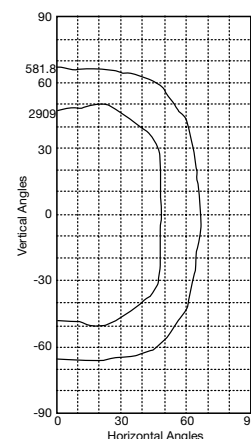
Characteristics: NEMA Type: 7Hx7V; Maximum Candela: 8092; Maximum Candela Angle: 25.5H 25.5V; Horizontal Beam Angle (50%): 97.3; Vertical Beam Angle (50%): 103; Horizontal Field Angle (10%): 137; Vertical Field Angle (10%): 136; Beam Lumens 14933; Field Lumens 18585; Luminaire Lumens 18842

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



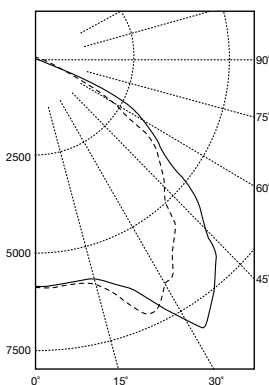
ISOCANDELA CURVES



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: **IAMLED87YBU1_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

		Effective Floor Cavity Reflectance 0.20															
		80				70				50				30			
% Ceiling	Rcc	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
% Walls	Rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90
2	102	95	89	84	99	93	88	83	89	85	81	86	83	79	83	80	77
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28

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				