

Product # _____ Type _____ Date _____

Project Name _____

Project Location _____ Prepared By _____

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Construction

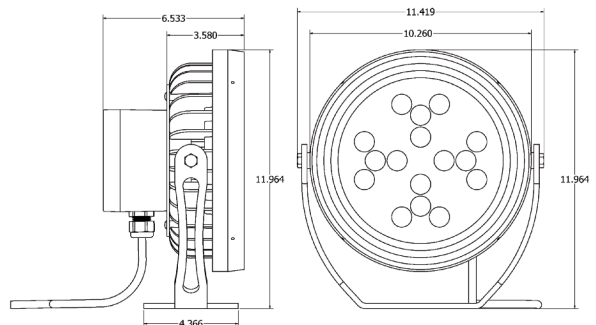
- Housing is low copper die-cast aluminum, heavy duty, structurally rigid and vibrantly dissipating heat for longer lumen maintenance life-hours. Housing is finished mini texture charcoal gray using polyester powder coat. Other optional finishes are available upon request.
- Lens Door Assembly Minimum 1/8" thick clear tempered glass lens, thermal and impact resistant, sealed with doorframe and housing using extruded, memory retentive gasket. The doorframe is die-cast aluminum and all external hardware is stainless steel.

Optical System

- Largest selection of optical choices shall be available to fit your applications. Please specify your selection from the ordering guide. Photometric Application Data table is provided as an additional tool for selecting an appropriate optic system suitable to the application.
- Glare Control: Choice of external glare control accessories are available. Please select from the catalog ordering guide.

Product Applications

- Landscape lighting
- Building façade/Column light
- Statue/art painting display spot light
- Sign light
- Flag light
- Building wall washer
- High power flood light
- Very long throw narrow spot light
- Stay-cable bridge light
- Fisherman long throw flood
- Very cold environment flood light
- Vibration resistant flood light



Fixture EPA: 0.5sq. ft.

Weight: 12 lbs.

Made in the U.S.A: meets Buy America and ARRA requirements.

LED configuration shown for illustration purposes only.
Actual LED configuration may be different.



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Electrical Components

- AlphaLED™ Engine: 4- ALXPG4 LED Modules are configured with 16 Cree XPG-2 LEDs using the 4 triangle boards. They are mounted directly on the highly conductive aluminum die-cast housing. These LEDs are operating below 85°C case temperature and deliver superior maintained illumination per LM80 L70 standards. Please refer to LED Performance Data table for the targeted LED illumination life at 25°C to 50° C luminaire outside ambient temperature. The choice of color temperatures (3000K, 4000K and 5000K) are available to match your intended application.
- LED Drivers: UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR -E328335). Suitable for input power at 120-277VAC 50/60Hz.
- Power connection: A 6 feet long outdoor rated water resistant cable shall be provided for the electrical power connections to the nearest junction box.

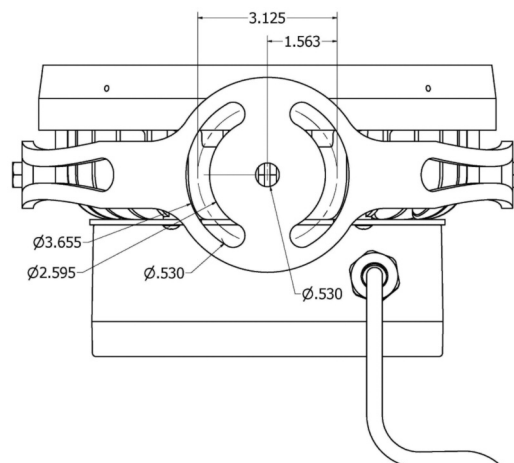
Mounting

- Adjustable aim and lock type yoke is provided with (2) 0.5620 dia. mounting holes to mount on horizontal or vertical surface depending on application. The yoke is made of steel and finished powder coat to match luminaire finish.

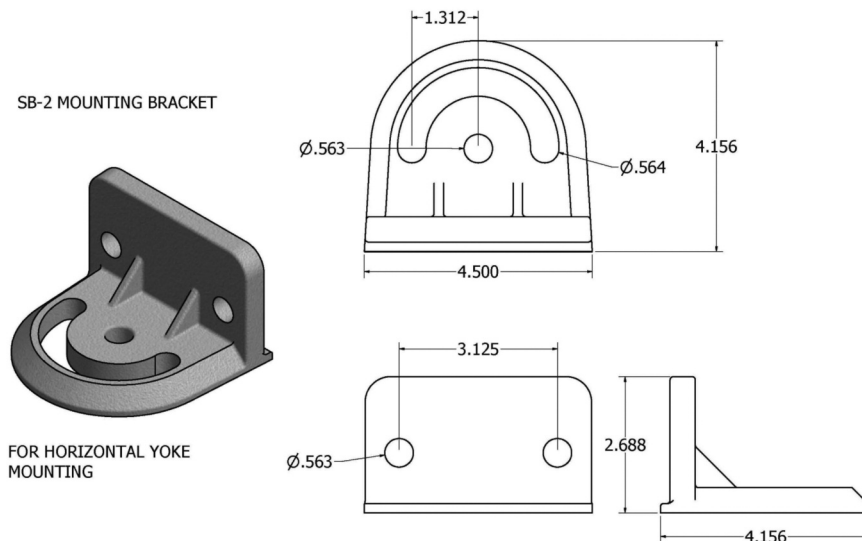
Safety Compliance

- UL 1598 and CSA C22.2 NO. 250.0 standards. Suitable for indoor/outdoor wet (IP65) or damp location use.

Mounting Options



Mounting Accessories



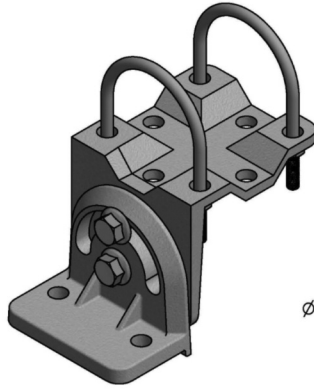
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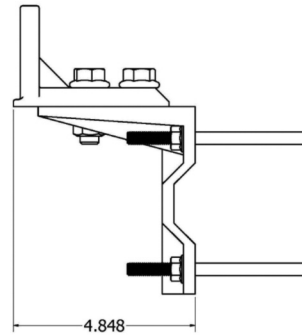
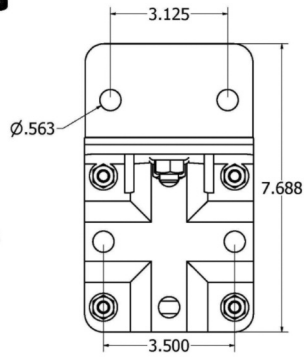
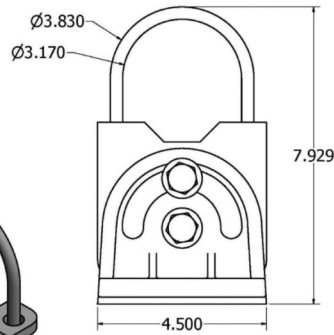
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Mounting Accessories

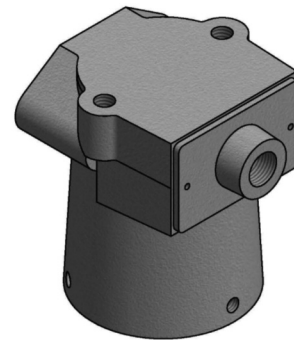
SB-3 PIPE CLAMP MOUNT



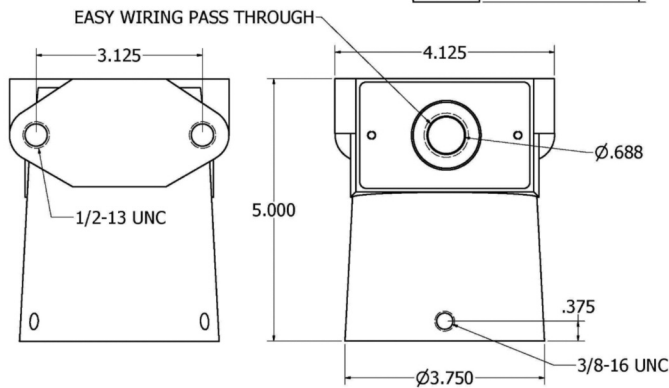
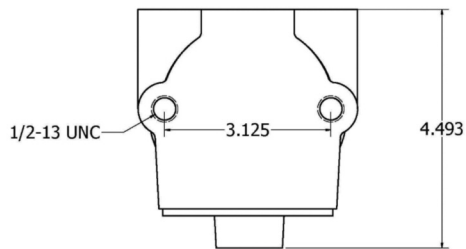
FOR PIPE SIZES OF 2 TO 3 INCHES



SB-5 POLE TOP SLIP-FITTER



FITS 2" to 2 1/2" PIPE
(2 3/8" to 2 7/8" OD)



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Mounting Options

SB-2 Mounting Bracket



SB-3 Pipe Clamp Mount



SB-5 Pole Top Slip-Fitter



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Targeted LED Performance

Luminaire Data @ 25°C

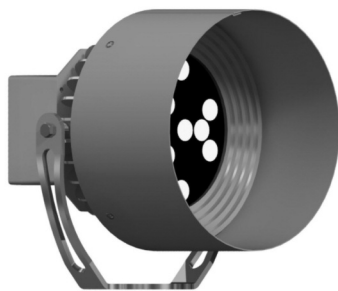
Samsung LM80 Projected Life Hours Per IESNA TM21

Model	No. of LEDs	LED Color Temp	LED Watts	Output Lumens	At 25°C, Luminaire Ambient L70 (10k)		At 40°C, Luminaire Ambient L70 (10k)		At 50°C, Luminaire Ambient L70 (10k)	
					Life Hours	TS-°C	Life Hours	TS-°C	Life Hours	TS-°C
PRO1	16	5000	35	3546	Greater than 60,000	Under 85	Greater than 51,400	Under 105	Greater than 60,000	Under 105
	16	4000		3440						
	16	3000		3268						
	16	5000	53	5004	Greater than 60,000	Under 85	Greater than 51,400	Under 105	Greater than 60,000	Under 105
	16	4000		4854						
	16	3000		4611						
	16	5000	75	6038	Greater than 60,000	Under 85	Greater than 51,400	Under 105	Greater than 60,000	Under 105
	16	4000		5857						
	16	3000		5564						

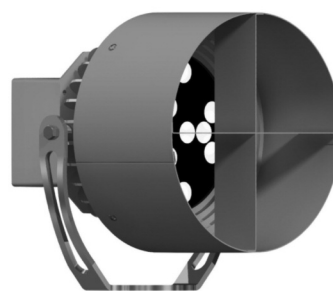
Optical Accessories



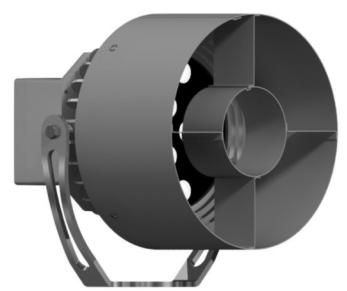
V - Visor



H - Hood



CL - Cross Baffle



CR - Concentric Ring

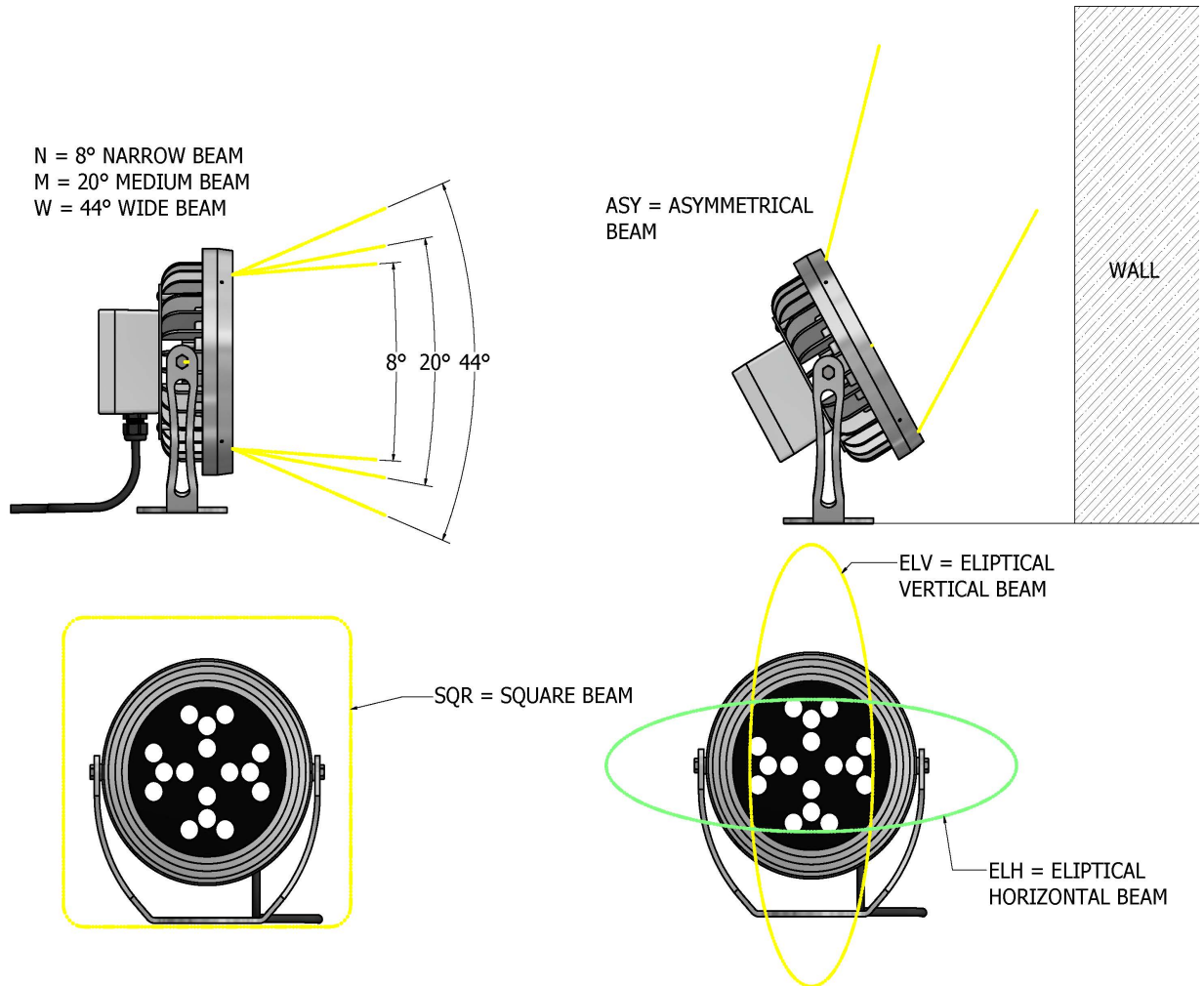
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Beam Information



NOTE: SEE PHOTOMETRIC APPLICATION DATA FOR SPECIFIC BEAM INFORMATION

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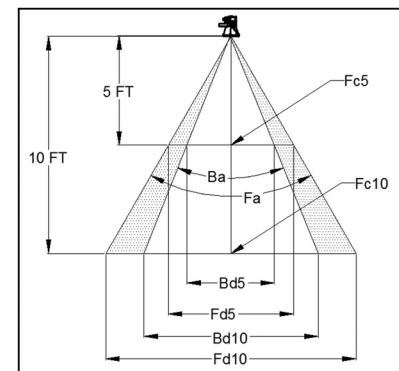
Photometric Application Data

Performance Values	Optic N8	Optic M20	Optic W44	Optic ELH	Optic ELV
NEMA Classification	1HX1V	3HX3V	4HX4V	4VX2H	2HX4V
Maximum Center Candela Cd-max	155264	34453	9708	32048	32048
Maximum Center Fc @ 5 ft Fc5	6211	1378	388	1282	1282
Maximum Center Fc @ 10 ft - Fc10	1553	345	97	320	320
Beam Angle @ 50% of Max. Fc - Ba degrees	8°	20°	44°	37° x 13°	13° x 37°
Field Angle @ 10% of Max Fc - Fa degrees	15°	40°	65°	60° x 28°	28° x 60°
Beam Diameter in feet @ 5 ft - Bd5	0.70	1.76	4.04	3.35 x 1.14	1.14 x 3.35
Field Diameter in feet @ 5 ft - Fd5	1.32	3.64	6.37	5.77 x 2.5	2.5 x 5.77
Beam Diameter in feet @ 105 ft - Bd10	1.40	3.53	8.08	7.70 x 2.28	2.28 x 7.7
Field Diameter in feet @ 10 ft - Fd10	2.63	7.28	12.74	14.54 x 5.0	5.0 x 14.54

Photometric Conversion Table

To be used to convert from photometry of 83W, 5000K to other wattages and color temperature LEDs

Model	No. of LEDs	LED Color Temp	LED Watts	Output Lumens	Conversion Multiplier-for candela values and foot candle values-all optics options
PRO1	16	5000	35	3546	0.587
	16	4000		3440	0.570
	16	3000		3268	0.541
	16	5000	53	5004	0.829
	16	4000		4854	0.804
	16	3000		4611	0.764
	16	5000	75	6038	1.000
	16	4000		5857	0.970
	16	3000		5564	0.922



Distance Multipliers (Adjusted from 10 ft values)

Distance in Feet	Multiplier for Beam or Field	Multiplier for Footcandle values
10	1.00	1.0000
15	1.50	0.4444
20	2.00	0.2500
25	2.50	0.1600
50	5.00	0.0400
75	7.50	0.0178
100	10.00	0.0100
150	15.00	0.0044

Projected Lumen Maintenance Factors VS Ambient Temperature (Reference IESNA TM-21-11)

Ambient Temp.	Initial Lumen Multiplier	Projected to 25K Hours	Projected to 25K Hours
0°C	1.08	1.05	1.03
10°C	1.03	0.98	0.96
15°C	1.02	0.97	0.95
20°C	1.01	0.96	0.94
25°C	1.00	0.95	0.93
30°C	0.99	0.94	0.92
35°C	0.98	0.93	0.91
40°C	0.97	0.92	0.9

Electrical Data Table

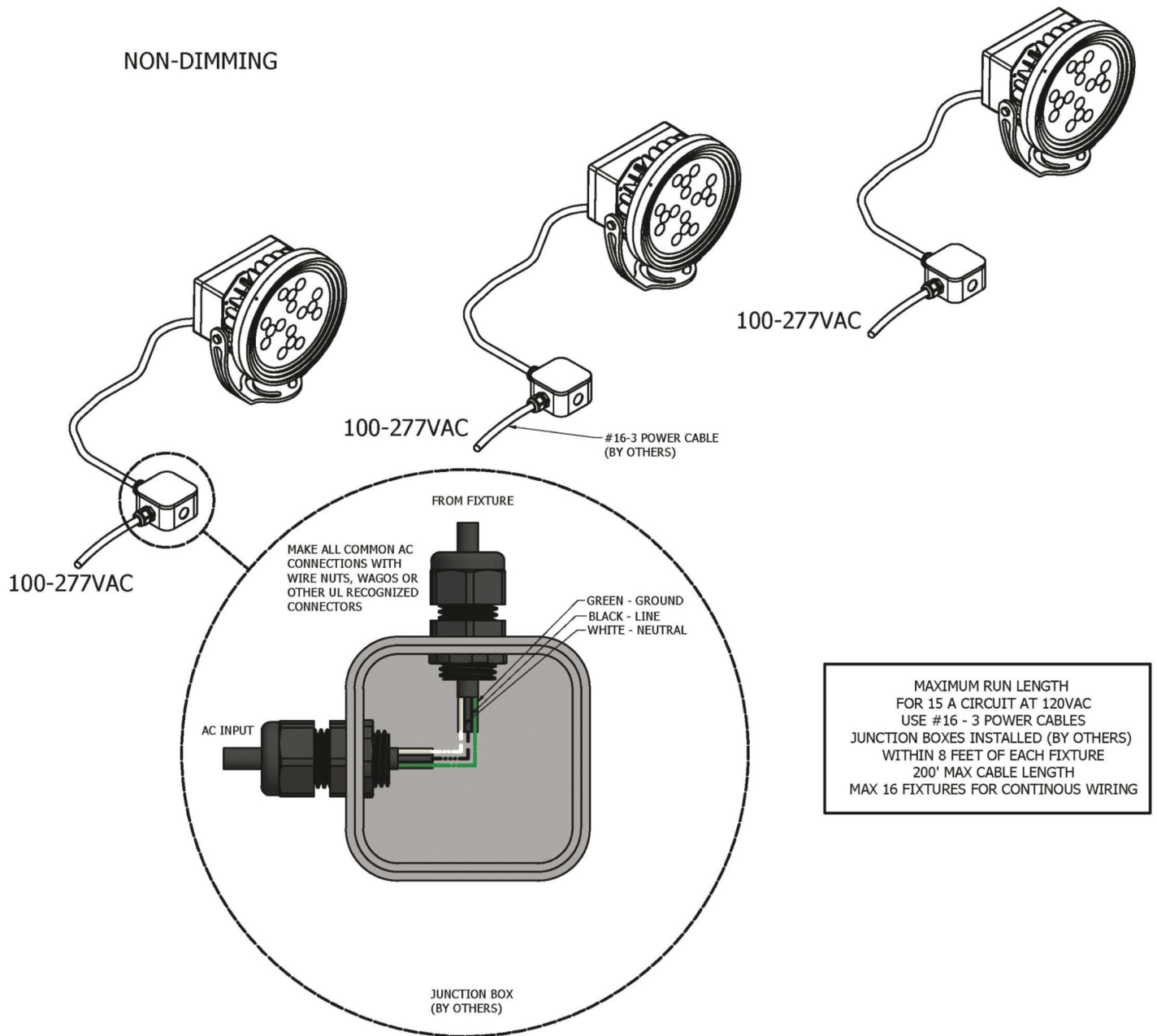
Pro 1 LED Power	System Input Power	Input Current Rated Voltage			
Watts	Watts	120V	208V	240V	277V
75W	83	0.69	0.40	0.35	0.30
53W	61	0.51	0.29	0.25	0.22
35W	40	0.33	0.19	0.17	0.14

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Typical Wiring Diagram

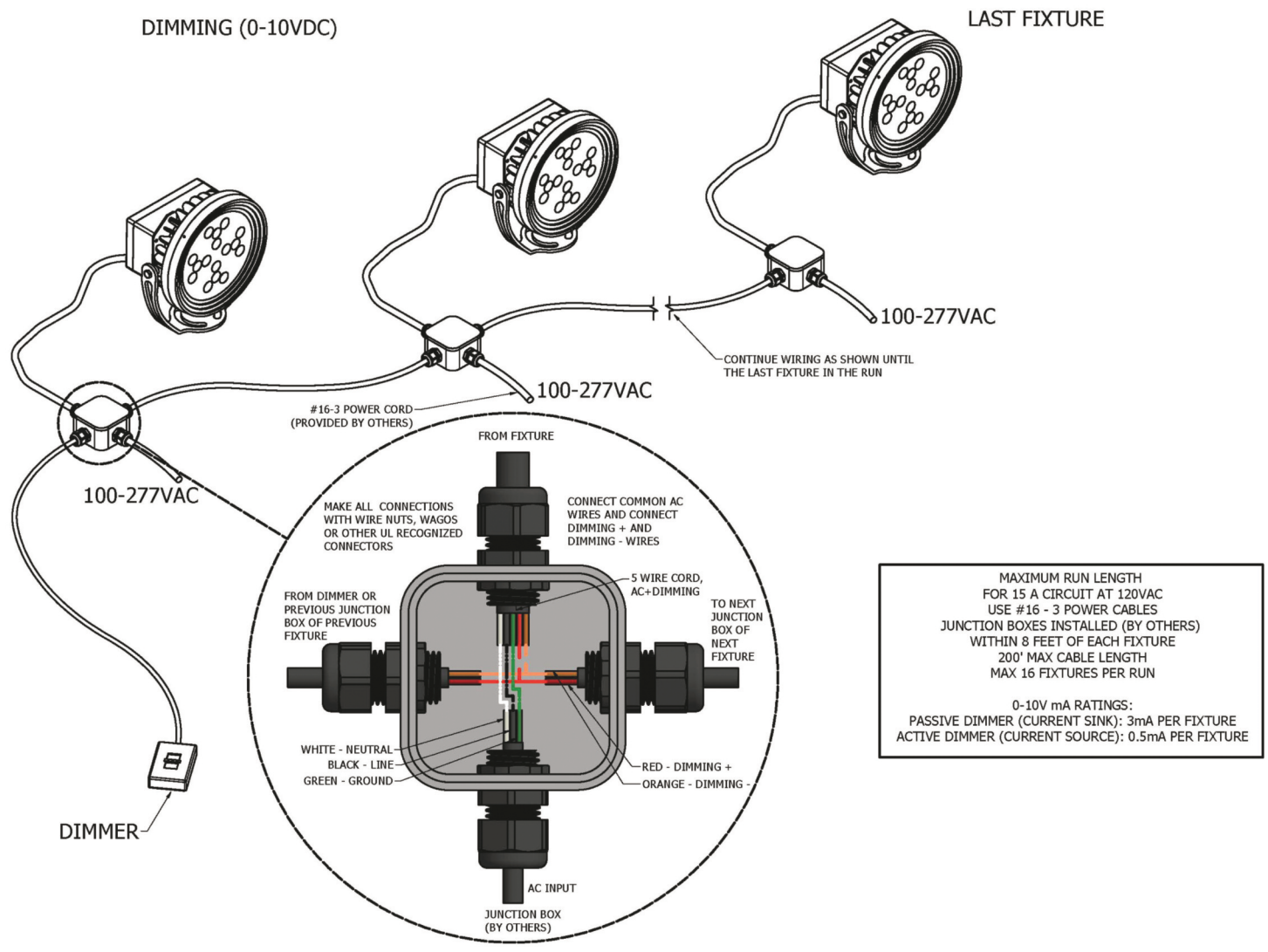


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Typical Wiring Diagram



MAXIMUM RUN LENGTH
 FOR 15 A CIRCUIT AT 120VAC
 USE #16 - 3 POWER CABLES
 JUNCTION BOXES INSTALLED (BY OTHERS)
 WITHIN 8 FEET OF EACH FIXTURE
 200' MAX CABLE LENGTH
 MAX 16 FIXTURES PER RUN

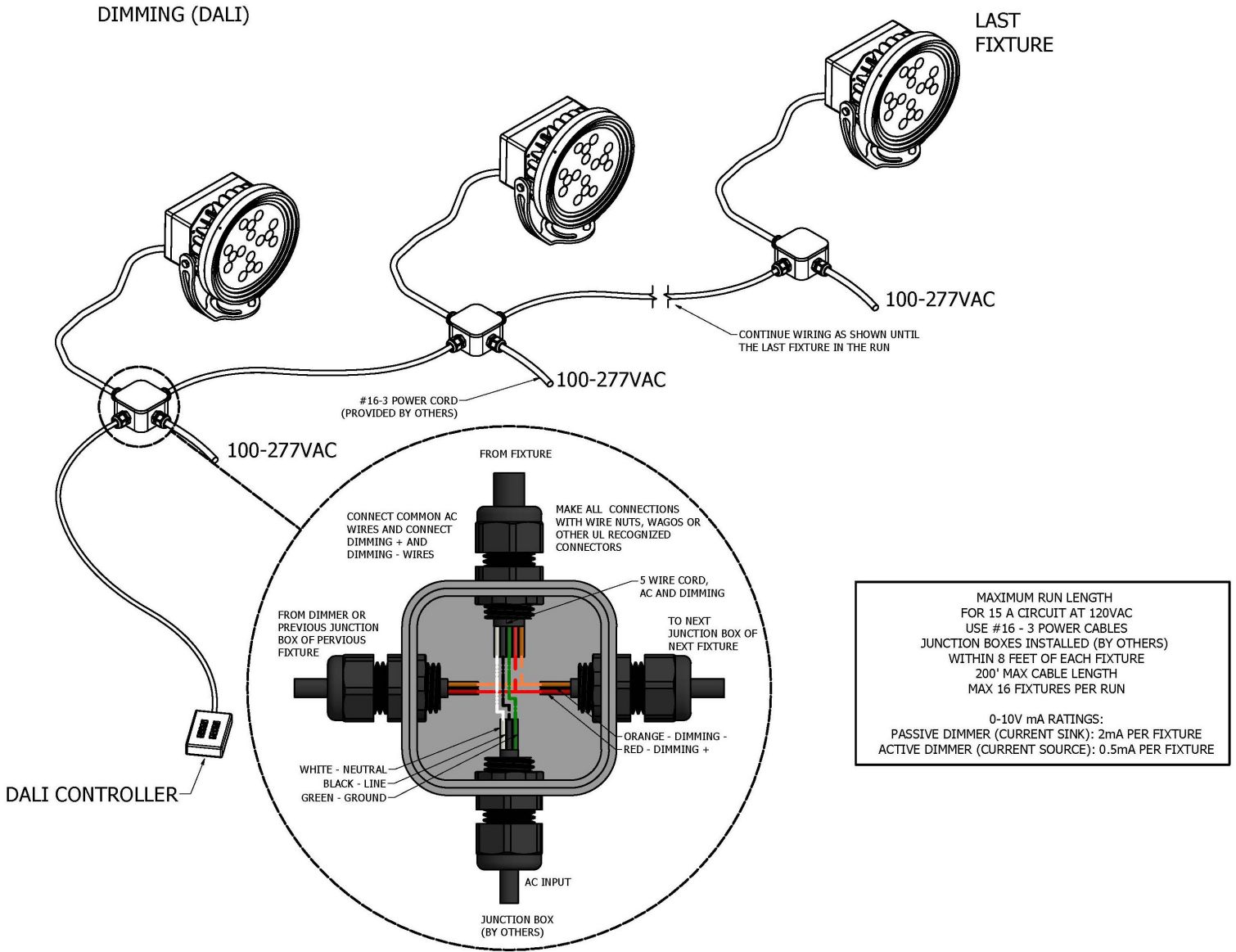
0-10V mA RATINGS:
 PASSIVE DIMMER (CURRENT SINK): 3mA PER FIXTURE
 ACTIVE DIMMER (CURRENT SOURCE): 0.5mA PER FIXTURE

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Typical Wiring Diagram



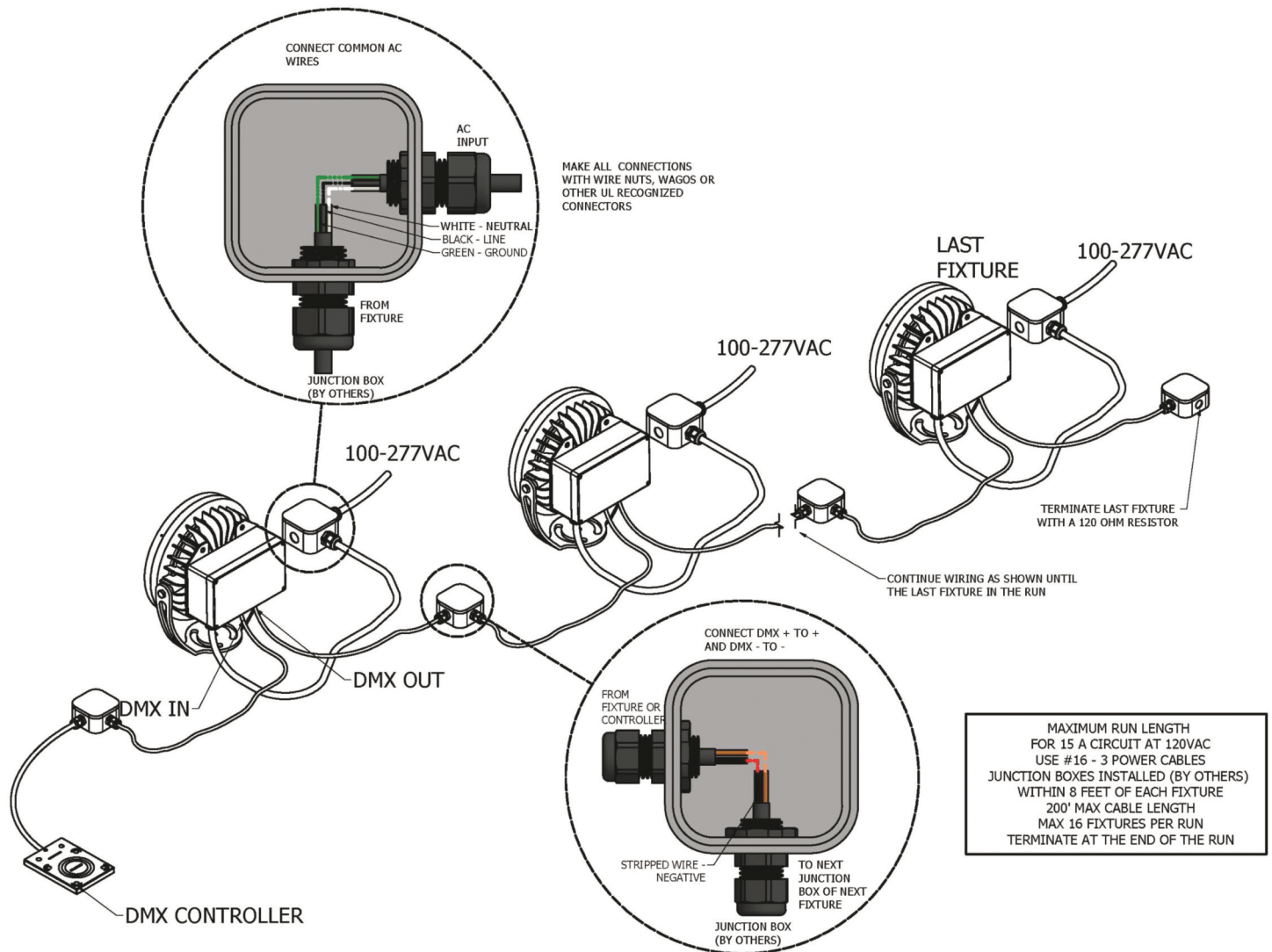
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Typical Wiring Diagram

DIMMING (DMX)



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Ordering Guide

MODEL	TOTAL LED POWER	CCT COLOR TEMP	LIGHT BEAM SPREAD	INPUT VAC	LIGHTING CONTROL	GLARE CONTROL
PRO1	75	CW	N	U	DM	V
PRO1	75=75W 53=53W 35 =35W	CW = 5K NW = 4K WW = 3K	N= 8° Narrow Beam M = 20° Medium Beam W = 44° Wide Beam ELH = Ellip. Hor. ELV = Ellip. Vert. ASY = Asym. Beam SQR = Square Beam	U = Universal 90V to 305V	DM = Dimming 1-10V, Interface only DX = DMX Dimming Interface Only DL = DALI Dimming Interface Only RM = Remote Driver Maximum 100 ft. Distance	V = Visor H = Hood CL = Cross Louver

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