

AREA & ROADWAY LIGHTING

LAB SERIES - LED

SPECIFICATIONS

Luminaire

One piece high impact clear acrylic patterned diffusing globe provided with durable corrosion resistant cast aluminum fitter and crown. Standard fitter has 3" I.D. opening for 2.88" OD tenon. All hardware is stainless steel. Luminaire is UL® Listed for Wet Location.

LED POWER ARRAY™ 2

Three-dimensional array of individual LED Tubes fastened to retaining plates. Each LED Tube consists of circuit board populated with a multiple of LED's covered with a gasketed acrylic lens and mechanically fastened to an extruded aluminum heatsink. Tubes are sealed to a an IP65 Standard.

Area and Roadway Distributions: Acrylic Tube Lenses have individual molded-in refractive optics for each LED and provides concisely tailored beam patterns. LED Tubes are uniquely aimed horizontally and beam patterns combine to produce wide throw, highly efficient IES Distribution Types II, III, IV and V with minimal uplight. Used in conjunction with a clear patterned diffusing globe only.

General Diffused Lighting: Acrylic Tube Lense provides duffusion of the raw LED distributions. Tubes are combined to produce uniform luminance of the outer globe. Used in conjunction with an opal patterned diffusing globe only.

LED Emitters

High Power White LED's are driven between 350mA and 700mA for a maximum output of 2 Watts nominal. LED's are available in standard Neutral White (4000K), Cool White (5000K), or Warm White (2700K & 3000K). All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L94 at 60,000 hours (TM-21 calculated at 6x Test Time).

LED Driver

Constant current electronic with a power factor of >0.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz. 0-10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.

True Amber LED's TRA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

Finish

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

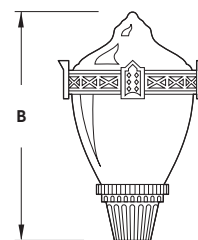
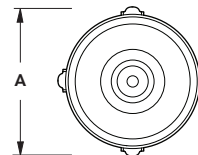
PROJECT NAME: _____

PROJECT TYPE: _____



LAB

SHOWN WITH STANDARD -YA FITTER



FIXTURE	A	B
LAB1*	18.0" 457mm	29.3" 744mm
LAB2*	15.5" 394mm	25.5" 648mm

*Height Varies With Fitter. See Page 3.

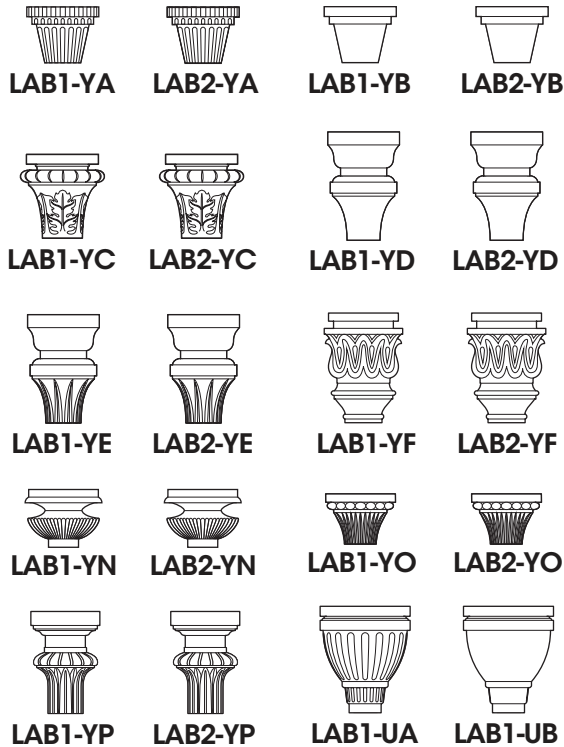


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LAB SERIES - LED

SPECIFICATIONS

FITTER OPTIONS

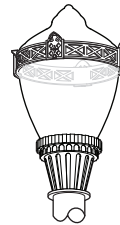


All Fitters Available with Mini-Button Photocells.
YD, YE, UA, & UB Available with Twist-Lock Photocells.

EPA & WEIGHT



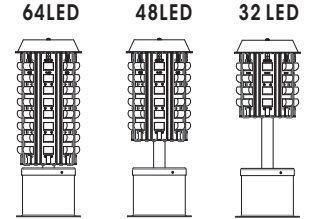
LAB1
Max Weight = 34 lbs
Max EPA = 1.86
64 LED Max



LAB2
Max Weight = 31 lbs
Max EPA = 1.50
48 LED Max

POWER ARRAY™ 2 MODULES

POWER ARRAY™ 2 8 Tube Array



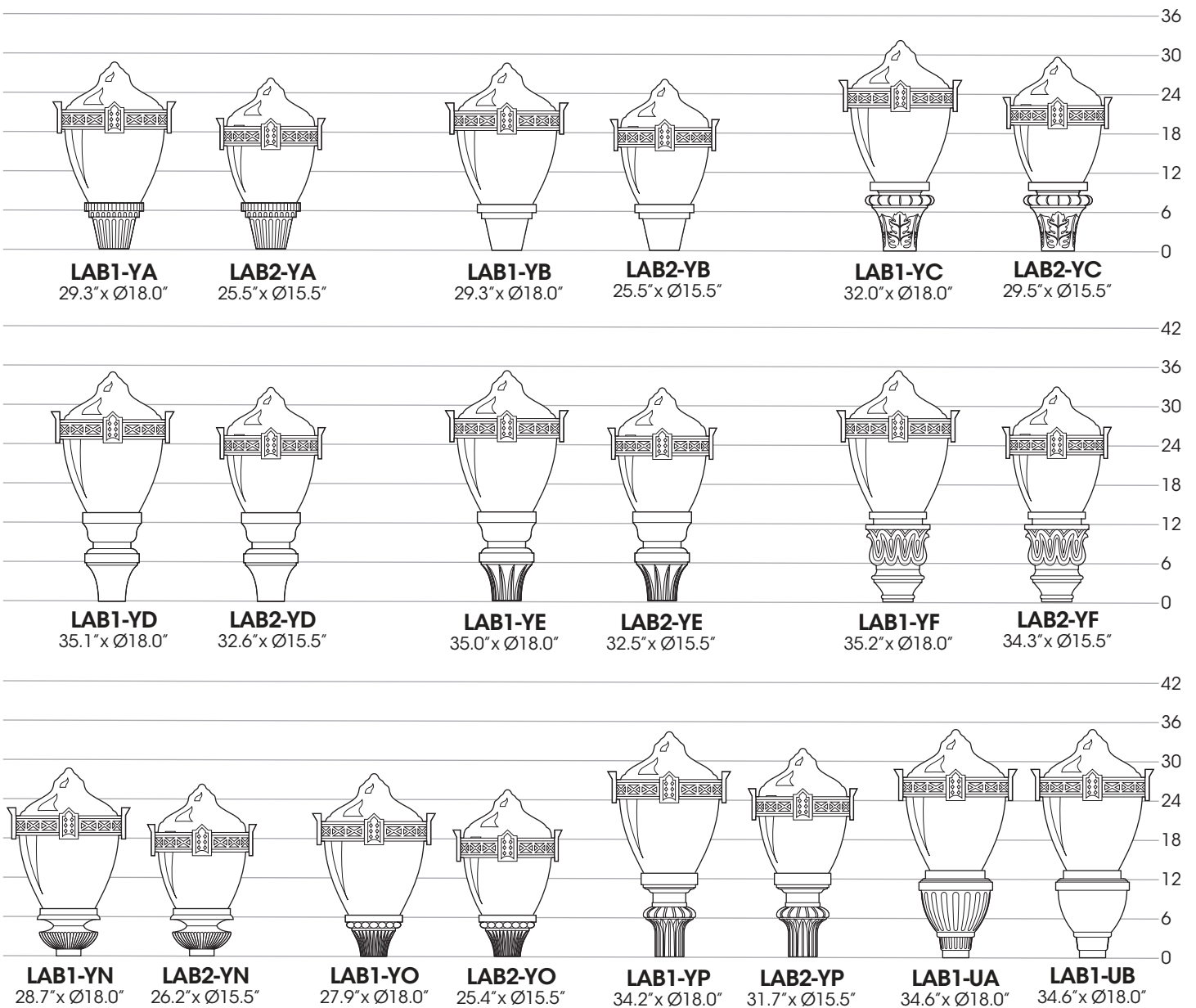
ORDERING INFORMATION

Spec/Order Example: LAB1-YP/PA2-IV/60LED/525mA/30K/347/PT/RAL-7005-S/CPA/OF

LUMINAIRE-FITTER	OPTICS	# of LED's	DRIVE CURRENT	CCT	VOLTAGE	MOUNTING	FINISH	OPTIONS
Luminaire	Optics	LED			Voltage	Mounting	Finish	Options
LAB1 <input type="checkbox"/> LAB1-YA <input type="checkbox"/> LAB1-YB <input type="checkbox"/> LAB1-YC <input type="checkbox"/> LAB1-YD <input type="checkbox"/> LAB1-YE <input type="checkbox"/> LAB1-YF <input type="checkbox"/> LAB1-YN <input type="checkbox"/> LAB1-YP LAB2 <input type="checkbox"/> LAB2-YA <input type="checkbox"/> LAB2-YB <input type="checkbox"/> LAB2-YC <input type="checkbox"/> LAB2-YD <input type="checkbox"/> LAB2-YE <input type="checkbox"/> LAB2-YF <input type="checkbox"/> LAB2-YN <input type="checkbox"/> LAB2-YO <input type="checkbox"/> LAB2-YP	Area & Roadway (CLEAR PATTERNED LENS) <input type="checkbox"/> PA2 - II <input type="checkbox"/> PA2 - III <input type="checkbox"/> PA2 - IV <input type="checkbox"/> PA2 - V General Diffuse (OPAL PATTERNED LENS) <input type="checkbox"/> PA2 - SYM	# of LED's LAB1 <input type="checkbox"/> 64LED <input type="checkbox"/> 48LED <input type="checkbox"/> 32LED LAB2 <input type="checkbox"/> 48LED <input type="checkbox"/> 32LED	Drive Current <input type="checkbox"/> 350mA <input type="checkbox"/> 525mA <input type="checkbox"/> 700mA	Color Temp-CCT <input type="checkbox"/> 27K (2700K) <input type="checkbox"/> 30K (3000K) <input type="checkbox"/> 40K (4000K) <input type="checkbox"/> 50K (5000K) <input type="checkbox"/> TRA True Amber* Consult Factory for Other LED Color, CCT, & CRI Options	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	Arm Mount <input type="checkbox"/> 1 <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> 4-90 Wall Mount <input type="checkbox"/> WM Post Top <input type="checkbox"/> PT	Standard Textured Finish <input type="checkbox"/> Black RAL-9005-T <input type="checkbox"/> White RAL-9003-T <input type="checkbox"/> Grey RAL-7004-T <input type="checkbox"/> Dark Bronze RAL-8019-T <input type="checkbox"/> Green RAL-6005-T For Smooth Finish, Replace Suffix "T" With Suffix "S" Example: RAL-9500-S Consult Factory for Custom Colors	Lens Options: <input type="checkbox"/> Clear Patterned Acrylic (STANDARD GLOBE) CPA <input type="checkbox"/> Opal Patterned Acrylic WA <input type="checkbox"/> Brass Finial BF <input type="checkbox"/> Ornamental Finial OF <input type="checkbox"/> House Side Shield HS <input type="checkbox"/> High-Low Dimming for Switch (BY OTHERS) Select 25/100 Or 50/100 (EX HLSW25) HLSW** <input type="checkbox"/> Pole Mounted Bluetooth Photo/Motion Sensor. (Factory 50/100 Motion Photo 75 fc) MS-F311 <input type="checkbox"/> Mini-Button Photocell + Voltage PC+V <input type="checkbox"/> Std. Twist Lock Photocell Receptacle TPR <input type="checkbox"/> 7 Pin Twist Lock Photocell Receptacle TPR7 <input type="checkbox"/> SINGLE FUSE SF <input type="checkbox"/> DOUBLE FUSE DF
		*TRA Available only in 350mA and 525mA Drive Currents Consult Factory for Other Drive Currents						

LAB SERIES - LED

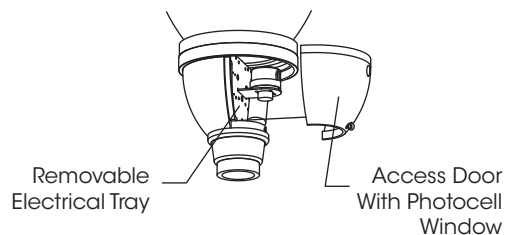
GLOBE AND FITTER CONFIGURATIONS



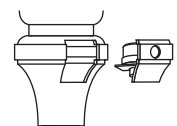
Notes:

All Fitters Have 3" ID Opening for 2.88" OD Tenon.
 Standard Tenon Length is 3.0".
 Stainless Steel Set Screws Provided for Mounting.
 All Fitters Can Accept Mini-Button Photo Cells.
 YD, YE, UA, & UB Fitters Can Accept Standard
 Twist Lock Photo Cells (See Detail).
 UA & UB Fitters Have a Removable Electrical Tray.

UA & UB Utility Fitters

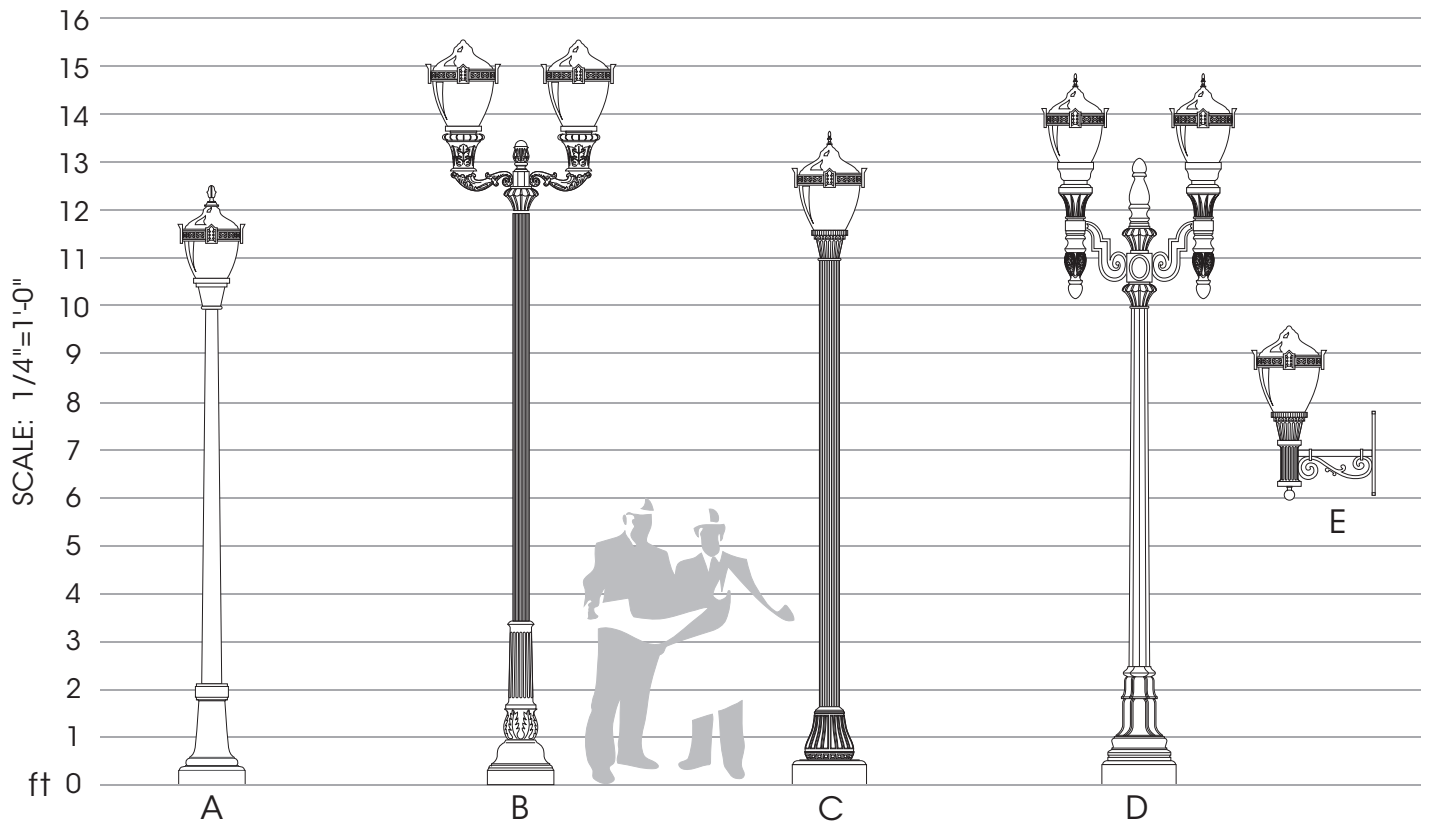


Twist Lock Photocell Fitters



LAB SERIES - LED

SAMPLE ASSEMBLIES



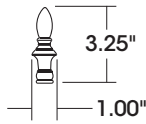
- A. 75-1035T-10'/PT/LAB2-YB-WP-PF/LED/ACCESSORIES/FINISH
- B. 5-1060-12'/XAB-2-180/LAB1-YC-CA/LED/ACCESSORIES/FINISH
- C. 17-1070-11'/PT/LAB1-YA-CA-BF/LED/ACCESSORIES/FINISH
- D. 19-1058C-10'/XAC-UP-2-180/LAB2-YE-WP-BF/LED/ACCESSORIES/FINISH
- E. WM-XAY/LAB1-YA-CA/LED/ACCESSORIES/FINISH

Sample Assemblies show a small offering of the Sun Valley Line of Poles, Bases, Shafts, Arms, & Luminaires. Please visit usaltg.com for the full product offering.

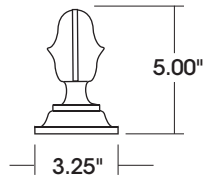
LAB SERIES - LED

OPTIONS

Brass Finial



Ornamental Finial

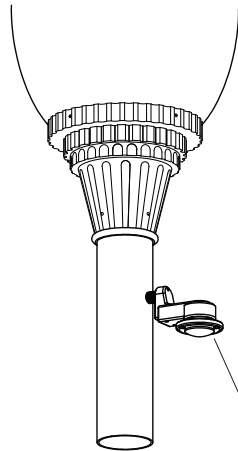


POLE MOUNTED MFS-311 BLUETOOTH PHOTO/MOTION SENSOR

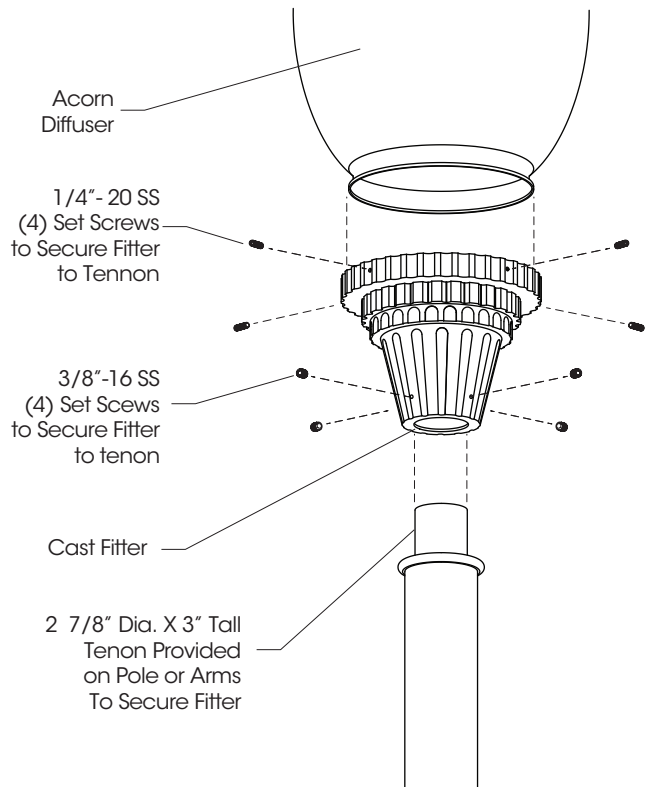
Factory Settings:
No Motion - 50%
Motion - 100%
Delay - 15 min.
Photocell - 75fc

Sensors can be Field
Programmed With
Bluetooth App

Coupling Provided
on Pole to Secure
Motion Sensor.



INSTALLATION DETAIL



High Low Dimming For Switches (HLSW)

The HLSW is a Small Electronic Switch which Provides High Low Dimming Control Through the LED Driver's 0-10V Control. Switching is Done by Adding a Secondary AC Switched Hot Trigger Line to the HLSW in Addition to the Normal AC Power Line. When the Secondary Trigger Line is Powered, the Fixture will go to 100% Dimming. With no Power to the Trigger, the Fixture will operate at 50% or 25% Dimming. Switches for the Trigger Line can be a Normal AC Switch/Breaker or Timed Switch/Breaker.

Wireless and Other Fixture Controls

Contact Factory for Wireless and Other Fixture Controls and Recommendations. Most Controls Can be Integrated and Factory Installed.

ELECTRICAL DATA GUIDE - AMPERAGE CHARTS

# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
32	350	34	0.28	0.16	0.12	0.10	0.07
32	525	52	0.43	0.25	0.19	0.15	0.11
32	700	69	0.58	0.33	0.25	0.20	0.14
48	350	51	0.43	0.25	0.18	0.15	0.11
48	525	78	0.65	0.38	0.28	0.22	0.16
48	700	104	0.87	0.50	0.38	0.30	0.22
64	350	68	0.57	0.33	0.25	0.20	0.14
64	525	103	0.86	0.50	0.37	0.30	0.21
64	700	138	1.15	0.66	0.50	0.40	0.29

Electrical Amperage Loads are for High Power White LED's in All Color Temperatures.

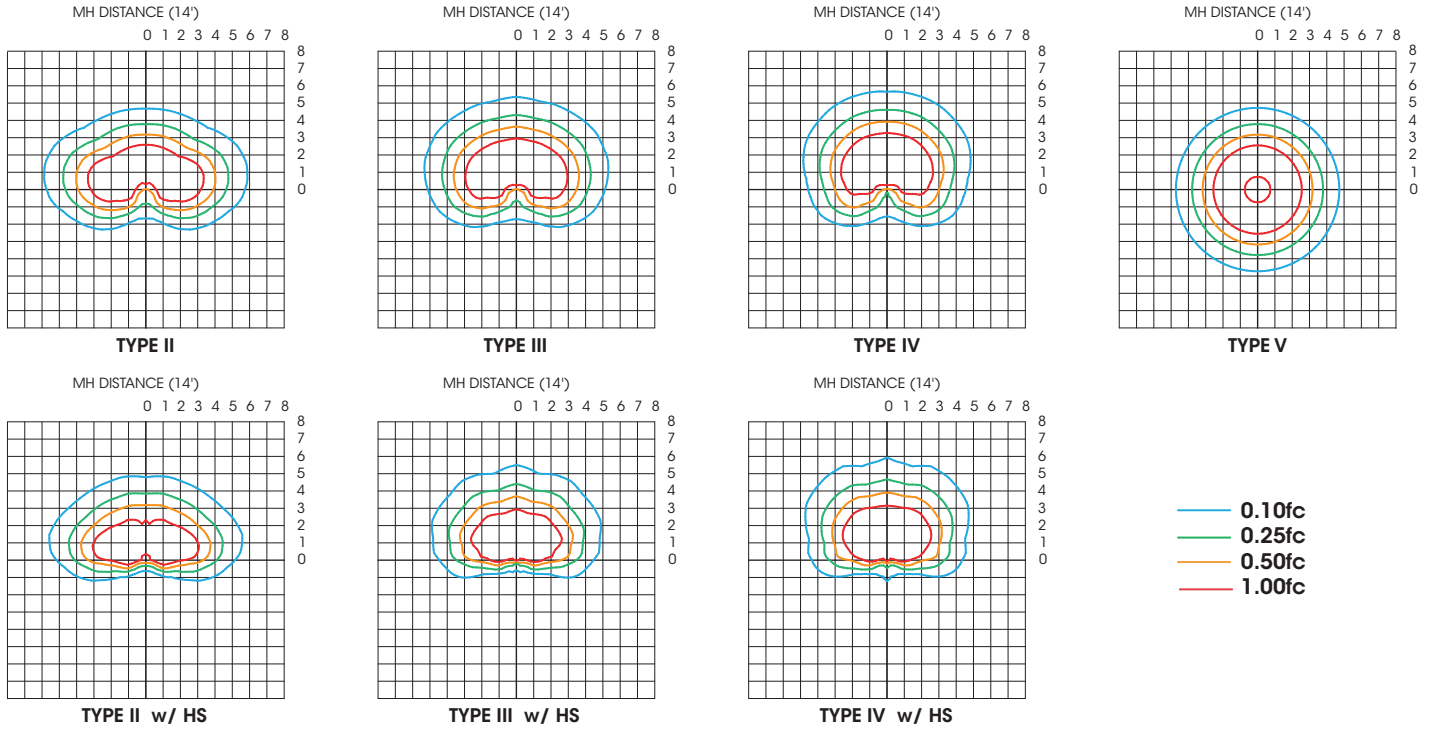
Wattages are System Watts or Total Input Watts and include all Electrical Components.

Use 0.80 Scale factor for TRA LED's.

LAB SERIES - LED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

LAB1-PA2-CPA-48LED-700mA-4000K - 14' Pole Height



LAB1/LAB2-PA2-CPA-32LED-700mA-4000K - 12' Pole Height

