

HB50B - HPS

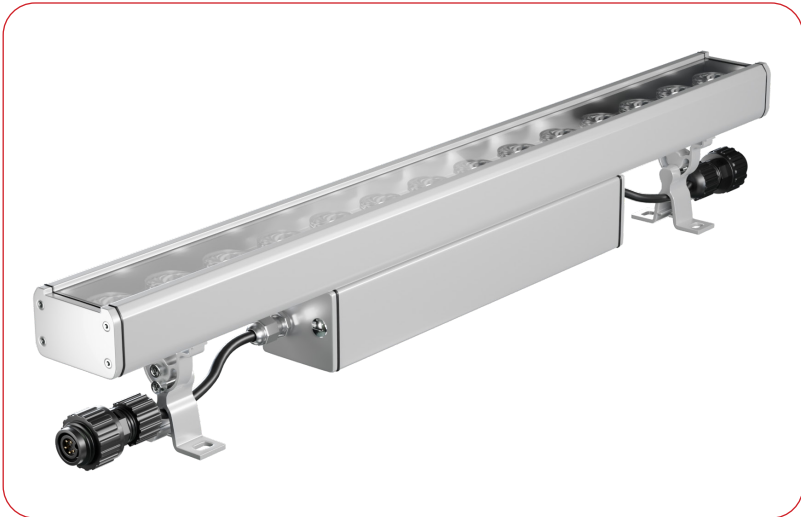
High Intensity | High Power
 100/277VAC | 1170lm/ft

HPS - TURTLE FRIENDLY LINEAR LED LIGHTBAR

Exterior:

Graze | Wall Wash | Cove | Façade | General Lighting

The HB50HP HPS is a linear exterior architectural LED luminaire specifically designed to provide a superior alternative to high-pressure sodium lighting. Delivering an impressive 1170 lumens per foot, this fixture is tailored for high-intensity grazing, wall washing, and flood lighting applications. It utilizes Nichia bin-sorted LEDs, renowned for their uniform, high-quality illumination that meets the exacting standards of lighting designers. It features an integral universal 100/277VAC power supply with 0-10v dimming, instant on/off, no restrike period, and is available in five lengths and a range of color temperatures, catering to a variety of design needs. Equipped with top-quality, bin-sorted Nichia LEDs, the HB50HP-HPS ensures a high-quality, even light output without the yellow HPS tint. Its energy-efficient optical lenses are expertly designed to maximize illumination while minimizing power consumption. Constructed for durability, it boasts an extruded anodized aluminum housing with tooled end caps and a secure IP66 rated Plug and Play connection system. With multiple mounting options, including powder-coated housing with integral glare shields, the HB50HP HPS is easy to install and perfect for replacing traditional high-pressure sodium fixtures to improve energy efficiency and reduce maintenance costs.



SPECIFICATIONS

PERFORMANCE

Output

20w-1170lm/ft

Color Temperatures

1800k

Beam Angles

8°, 15°, 20°, 30°, 45°, 120°,
8°x40°, 10°x60°, 13°x17°, 15°x35° & 30°x60°

LEDs per Foot

7

LED's

Bin-sorted

Color Consistency

2 SCDM

ELECTRICAL

Input Voltage

Universal 100/277VAC

Driver

Integral

Control

0-10v dimming

Heat dissipation

Full thermal management system
(one cable for power and signal)

Connection

Quick connect plug and play system

Projected Lumen Maintenance

>90,000 hours

PHYSICAL

Fixture Length Options

12", 24", 36", 48"

Max Run Length

110ft @277vac; 48ft @120vac

Housing

Extruded gray aluminum

Lens

Tempered Glass

Fixture Finish (Standard)

Anodized

Powder Coated Finish (Optional)

Black, Bronze, White, CU

Standard Mounting

Stainless adjustable brackets

Optional Mounting

Powder-coated housing | extended arms or
ground post stakes

Operating Temperature

-40°F to 122°F, (-40°C to +50°C)

ENVIRONMENT AND WARRANTY

IP Rating

IP66

Environment

Dry, Damp or Wet locations
0-100% non condensing humidity

Certifications

UL, cUL

Warranty

5 year limited warranty

SPECIFICATIONS

PHYSICAL

HB50B HPS

Fixture Wattage

20w/ft

System Wattage

17.67w/ft

Lumens

1171lm/ft @2700K

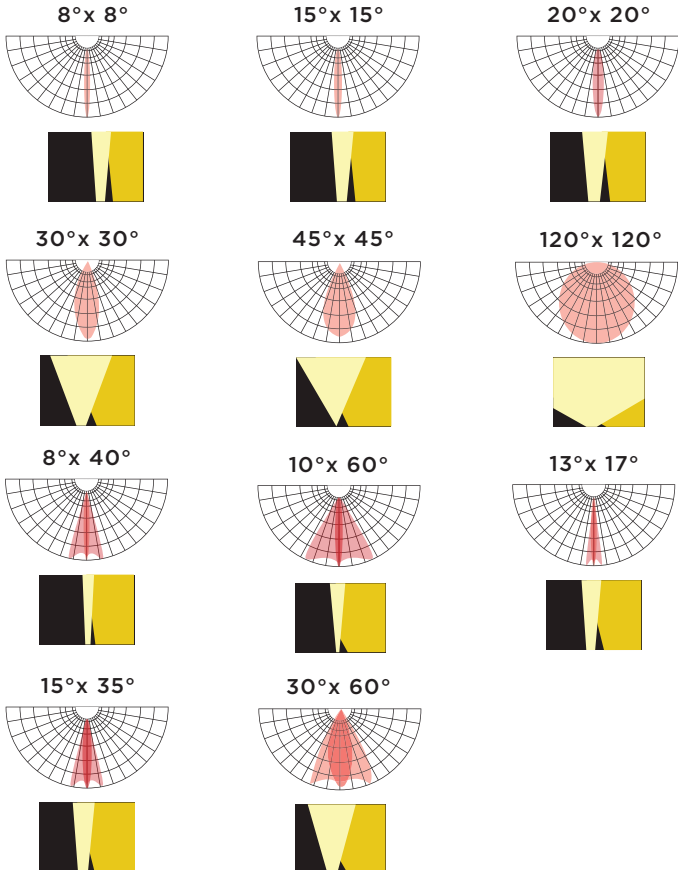
Max Run Length

110ft @277vac

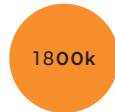
96ft @240vac

48ft @120vac

OPTICS



COLOR TEMPERATURES

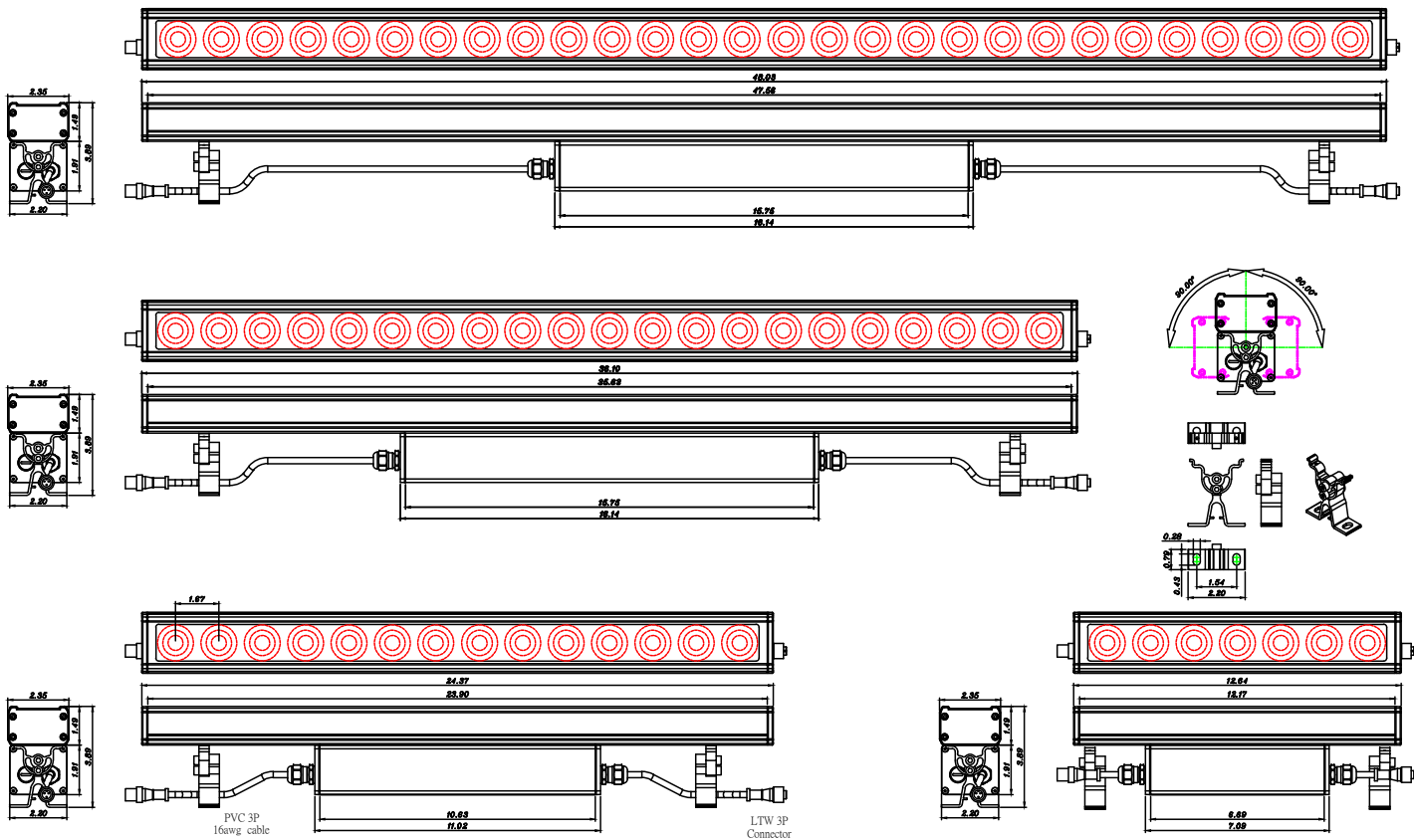


SPECIFICATIONS

DIMENSIONS AND DATA

Model Number	Voltage	View Angle	LEDs/pc	Lumens/Fixture	Watts/Fixture	Extrusion Length(A)	Total Length(B)
HB50B-12"-18K-XXD-AC	100/ 277VAC	8°, 15°, 20°, 30°, 45°, 120°, 8"x40°, 10"x60°, 13"x17°, 15"x35°, 30"x60°	7	1170 lm	20	12.17" (309mm)	12.64" (321mm)
HB50B-24"-18K-XXD-AC			14	2340 lm	40	23.90" (607mm)	24.37" (619mm)
HB50B-36"-18K-XXD-AC			21	3510 lm	60	35.63" (905mm)	36.1" (917mm)
HB50B-48"-18K-XXD-AC			28	4680 lm	80	47.56" (1208mm)	48" (1220mm)

PROFILE



ORDER FORM

CREATE YOUR FIXTURE

Ex. HB50B-20-48-18K-840-ACD

MODEL <input type="text"/> HB50B	LENGTH <input type="text"/> 12" 12 inches 24" 24 inches 36" 36 inches 48" 48 inches	COLOR <input type="text"/> 18k 1800k	OPTICS <input type="text"/> <table border="1"> <thead> <tr> <th></th> <th>GRAZE</th> <th></th> <th>WASH</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>8°x 8°</td> <td>30</td> <td>30°x 30°</td> </tr> <tr> <td>840</td> <td>8°x 40°</td> <td>3060</td> <td>30°x 60°</td> </tr> <tr> <td>1317</td> <td>13°x 17°</td> <td>45</td> <td>45°x 45°</td> </tr> <tr> <td>15</td> <td>15°x 15°</td> <td></td> <td></td> </tr> <tr> <td>1535</td> <td>15°x 35°</td> <td></td> <td>COVE/FLOOD</td> </tr> <tr> <td>1060</td> <td>10°x 60°</td> <td>120</td> <td>120° x120°</td> </tr> <tr> <td>20</td> <td>20°x 20°</td> <td></td> <td></td> </tr> </tbody> </table>		GRAZE		WASH	8	8°x 8°	30	30°x 30°	840	8°x 40°	3060	30°x 60°	1317	13°x 17°	45	45°x 45°	15	15°x 15°			1535	15°x 35°		COVE/FLOOD	1060	10°x 60°	120	120° x120°	20	20°x 20°		
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20	20°x 20°																																		
VOLTAGE <input type="text"/> AC 100-277vac	CONTROL <input type="text"/> D Dimming ND Non Dimming																																		

SELECT CONNECTION

Wire Lead

QTY	POWER/SIGNAL	
<input type="text"/>	HB50-5P-72"-W/L	72" (6ft) Wire Lead
<input type="text"/>	HB50-5P-xx"- W/L	xx" (CU) Wire Lead (custom length – consult factory)
QTY	POWER	
<input type="text"/>	HB50-3P-72"-W/L	72" (6ft) Wire Lead
<input type="text"/>	HB50-3P-xx"- W/L	xx" (CU) Wire Lead (custom length – consult factory)

* 1 wire lead and end cap required for each run.

End Cap

QTY		
<input type="text"/>	HB5P-END CAP	End cap

Jumper Cable

QTY	POWER/SIGNAL	
<input type="text"/>	HB50-5P-12"-J	12" (1ft) Jumper Cable
<input type="text"/>	HB50-5P-72"-J	72" (6ft) Jumper Cable
<input type="text"/>	HB50-5P-xx"-J	xx" (CU) Jumper Cable (custom length – consult factory)
QTY	POWER	
<input type="text"/>	HB50-3P-12"-J	12" (1ft) Jumper Cable
<input type="text"/>	HB50-3P-72"-J	72" (6ft) Jumper Cable
<input type="text"/>	HB50-3P-xx"-J	xx" (CU) Jumper Cable (custom length – consult factory)

* All connectors to be hand tightened, do not use tools or this will void the warranty.

Surge Protection

QTY		
<input type="text"/>	LSP4-UNV	120/277v surge protector

* A surge protection device must be installed on each supplying circuit to comply with TSLC's 5-year warranty terms.

Dimmer Switch

QTY		
<input type="text"/>	IP710-DLZ	0-10V Dimmer

Optional Powder Coated Finish

QTY	Powder coated finishes available for additional cost	
<input type="text"/>	BK	Black
<input type="text"/>	BZ	Bronze
<input type="text"/>	WH	White
<input type="text"/>	CU	Custom

* Fixture housing is anodized aluminum standard

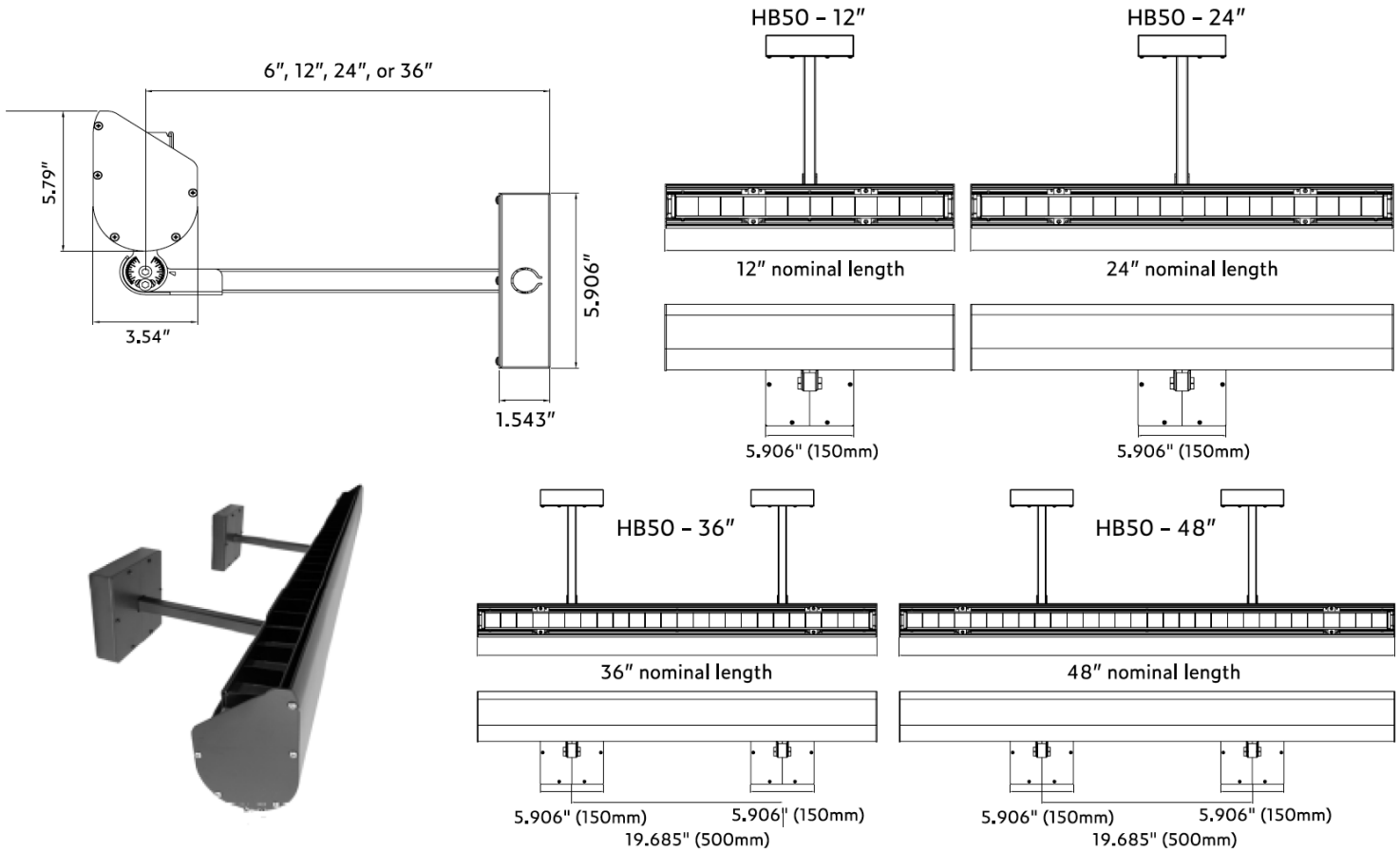
ORDER FORM

MOUNTING OPTIONS

Housing and Extended Arms

HB50EXT-XXL-XXF-XXA (L=Length, F=Finish, A= Extended arm length)

QTY	Housing	(L) Housing Length	(F) Finish	(A) Extended Arm Length
	HB50EXT-	12"	BK - Black	6"
		24"	BZ- Bronze	12"
		36"	WH - White	18"
		48"	SI - Silver	24"
			CU - Custom	36"
				GPA (Ground Post Arm)



* Standard fixture housing is anodized aluminum. Powder coating is available from factory in Black, Bronze, Silver, White, or custom.
 * There is a minimum quantity for powder coating or a surcharge will be added. Custom colors available upon request and will require a cost adder.
 * 1ft & 2ft extrusions require one ground post stake (HBEXP-GPS). 3ft & 4ft extrusions require two ground post stakes (HBEXP-GPS).

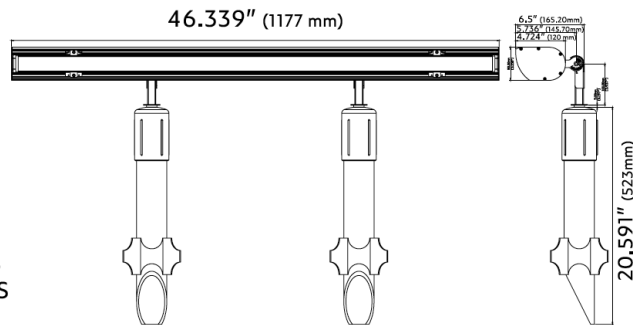
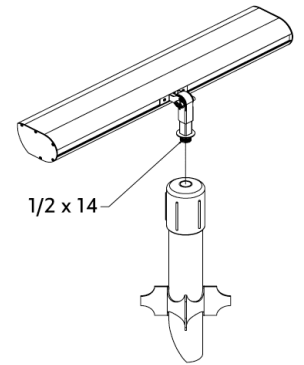
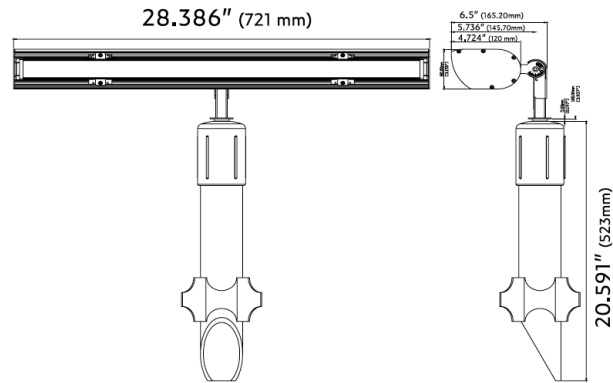
Ground Posts Stakes

QTY **Select when using GPA above (1 per fixture for 12" & 24" housing and 2 for 36" & 48" housing)**
HBEXT-GPS Ground post mount

1ft & 2ft extrusions require one HBEXT-GPS. 3ft & 4ft extrusions require two HBEXT-GPS.



- * 12" & 24" extrusions require one HBEXT-GPS
- * 36" & 48" extrusions require two HBEXT-GPS



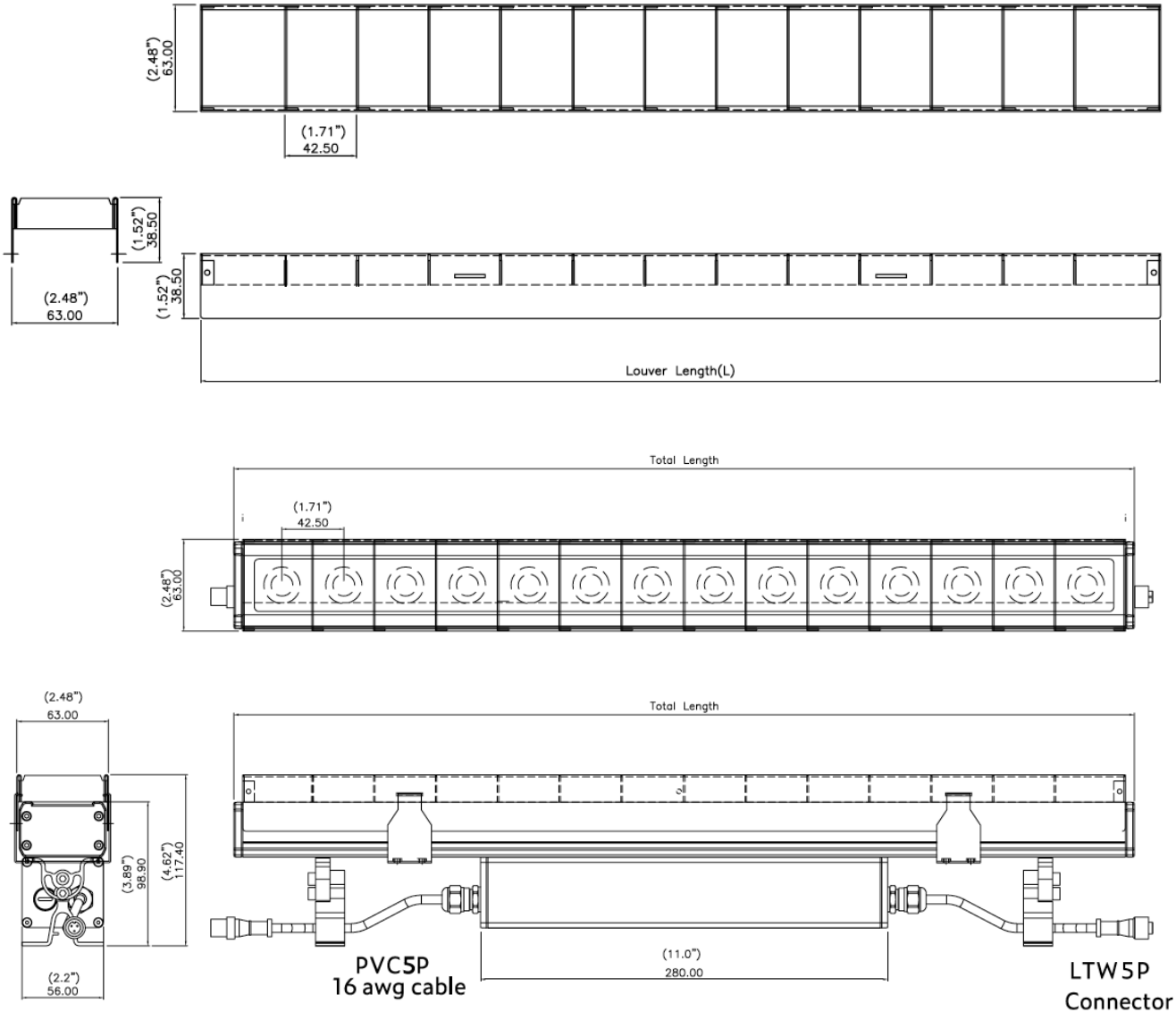
GLARE PROTECTION

LOUVERS

Glare Protection

Standard louvers are in Black. Louvers are also available in Bronze, White, or custom.

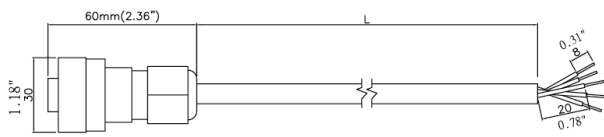
QTY	Housing	Standard Inch	LEDs/unit	LEDs/Pitch	Louver Length	Total Length	(F) Finish
	HB50-12" LOUVER	12"	6	42.5 mm/1.71 in	309 mm/12.2 in	321 mm/12.6 in	BK - Black
	HB50-24" LOUVER	24"	12	42.5 mm/1.71 in	607 mm/23.9 in	619 mm/24.4 in	BZ - Bronze
	HB50-36" LOUVER	36"	18	42.5 mm/1.71 in	905 mm/35.6 in	917 mm/36.1 in	WH - White
	HB50-48" LOUVER	48"	24	42.5 mm/1.71 in	1208 mm/47.6 in	1220 mm/48 in	SI - Silver
							CU - Custom



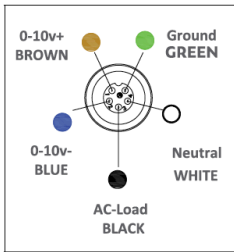
WIRING OPTIONS

WIRE LEAD

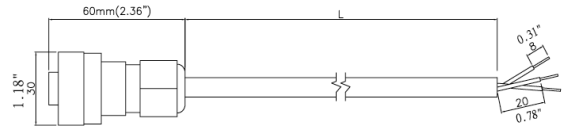
DESCRIPTION | **PART NUMBER**
 5 pin 0-10v dimming wire lead | HB50-5P-xx" 16W/L



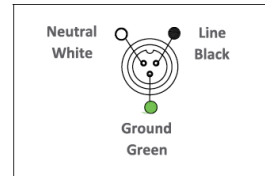
Female | PVC Cable 16 awg 5 pin



DESCRIPTION | **PART NUMBER**
 3 pin non-dimming wire lead | HB50-3P-xx" 16W/L

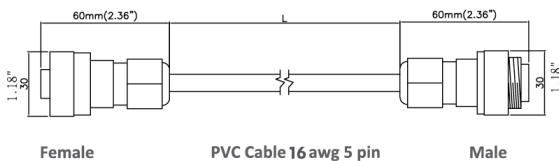


Female | PVC Cable 16 awg 3 pin

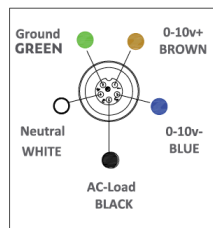
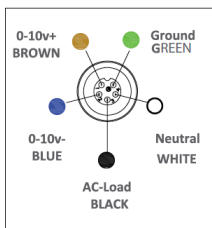


JUMPER CABLE

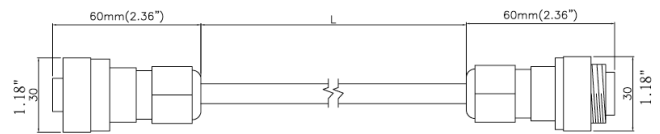
DESCRIPTION | **PART NUMBER**
 5 pin 0-10v dimming jumper | HB50-5P-xx" 16J



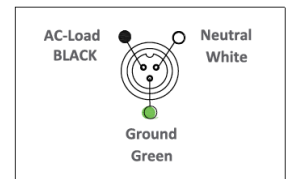
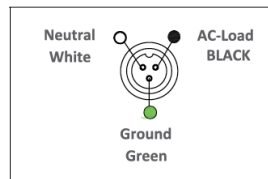
Female | PVC Cable 16 awg 5 pin | Male



DESCRIPTION | **PART NUMBER**
 3 pin non-dimming jumper | HB50-3P-xx" 16J



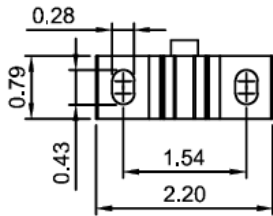
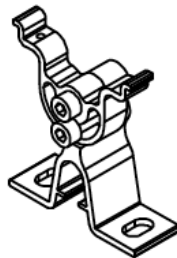
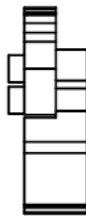
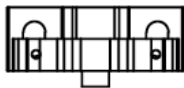
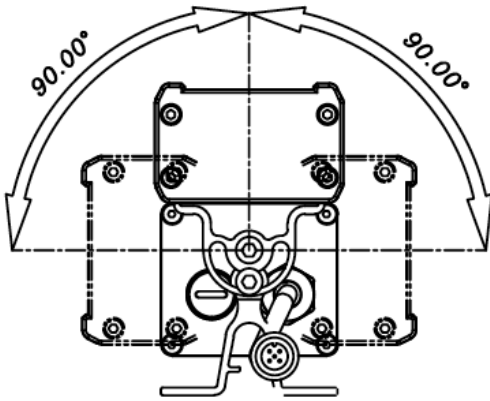
Female | PVC Cable 20awg 3 pin | Male



MOUNTING BRACKETS

INTEGRATED ADJUSTABLE BRACKETS

DESCRIPTION	PART NUMBER
HB30 Adjustable Bracket	AL-HB30 ADJ.Bracket



SURGE PROTECTION DEVICE

SURGE PROTECTION

DESCRIPTION | **PART NUMBER** | The use of a surge protection device is necessary to maintain your warranty. Specifications are subject to change without notice.

Surge Protection Device | AL-LSP-UNV

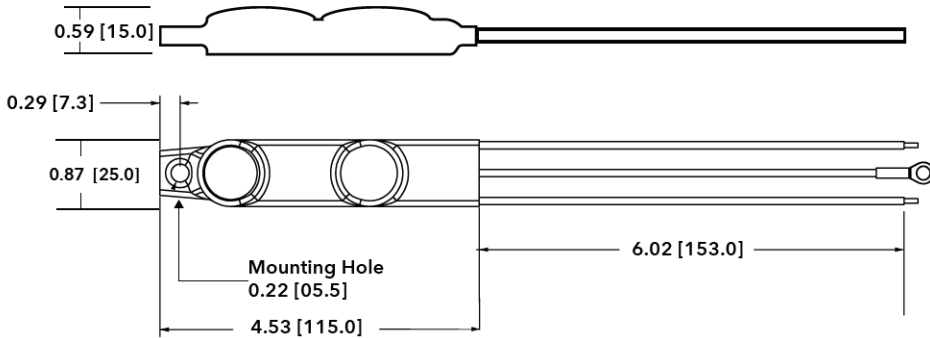
SPECIFICATIONS

Input Voltage	120-277V (+/- 5%)		
Frequency	50Hz-60Hz		
Maximum Continuous Voltage	320V		
Maximum Discharge Current	L-N 20kA; L-G, N-G 10kA (8/20Qs standard wave)		
Nominal Discharge Current	5kA		
Measured Limiting Voltage (VpK)	L-N	L-G	N-G
	1200	1320	1320
Max Case Temperature	85°C		

PULSE RATING (8 X 20 SEC)		
Surge Level	# of Strikes	
	L-N	L-G, N-G
10,000A	*2	1
6,500A	4	2
5,000A	30	15
2,000A	200	100
700A	20000	1000

*1 strike at 20,000A

MECHANICAL DIMENSIONS : IN (MM)



WIRING DIAGRAM

