TSLC
THE SMART LIGHTING COMPANY

Date: .....
Type: .....
Project: .....
Firm: .....



HB40HP RGB

LINEAR LED LIGHTBAR

POWERFUL | HIGH PERFORMANCE
13w/ft | RGB | DMX







Exterior: Graze| Wall Wash | Cove | Flood Lighting

The Smart Lighting Company HB40 Series wet location rated, high-performance linear fixtures designed for a range of exterior applications, including grazing, wall-washing, and flood lighting. With RGB color-changing capabilities at 13 watts per foot, it's ideal for creating dynamic and impactful lighting environments. These fixtures use Nichia bin-sorted LEDs and precision optics, ensuring high-quality, uniform illumination with less energy. Versatile and user-friendly, they feature DMX control and self-addressing capabilities, along with a variety of options for fixture length, color temperature, optics, mounting, and finishes. Each fixture includes an integral universal 100/277VAC power supply, is built with full thermal management, and is equipped with a Plug and Play cable system that simplifies installation while providing both power and signal. Constructed with a durable extruded anodized aluminum housing and tooled end caps, and featuring IP66 rated secure Plug and Play connectors, the HB40HP is perfect for providing powerful, consistent lighting.

DIMMABLE IP66 LM80 TESTED LEDS CSA c UL us LISTED NICHIA

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technology by LEDpower

TSLC THE SMART LIGHTING COMPANY

HB40HP LINEAR LED LIGHTBAR

SPECIFICATIONS

Date: .....
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PERFORMANCE

Output
13w/ft | 376lm/ft (12.1w/ft system)

Color Temperatures
RGB

Beam Angles
15°, 20°, 30°, 45°, 60°, 75°, 90°, 120°, 18°x26°, 18°x58°, 30°x60°

LEDs per Foot
12 (4R, 4G, 4B) LED's/ft

LED's
Nichia bin-sorted

Color Consistency
2 SCDM

ELECTRICAL

Input Voltage
100-277vac

Power Supply
Integral

Control
DMX

Resolution
Per 9" or per fixture

Heat dissipation
Full thermal management system

Connection
Quick connect plug and play system (power and signal in one cable)

Projected Lumen Maintenance
>90,000 hours

PHYSICAL

Fixture Length Options
10", 19", 28", 37", 46"

Max Run Length
125ft@277vac, 54ft@120vac

Housing
Anodized extruded aluminum, tooled end caps

Lens
Polycarbonate

Fixture Finish (Standard)
Anodized aluminum

Powder Coated Finish (Optional)
Black, Bronze, White, CU

Standard Mounting
Stainless adjustable or flat 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

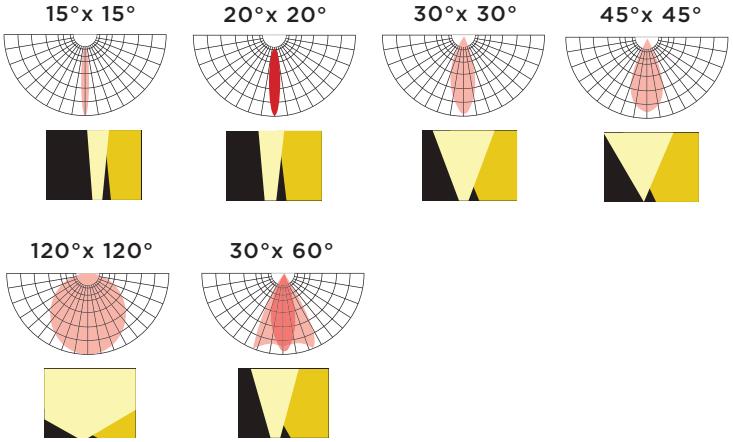
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HB40HP EXTERIOR LINEAR LED LIGHTBAR

SPECIFICATIONS

Date: .....
Type: .....
Project: .....
Firm: .....

OPTICS



COLOR TEMPERATURES

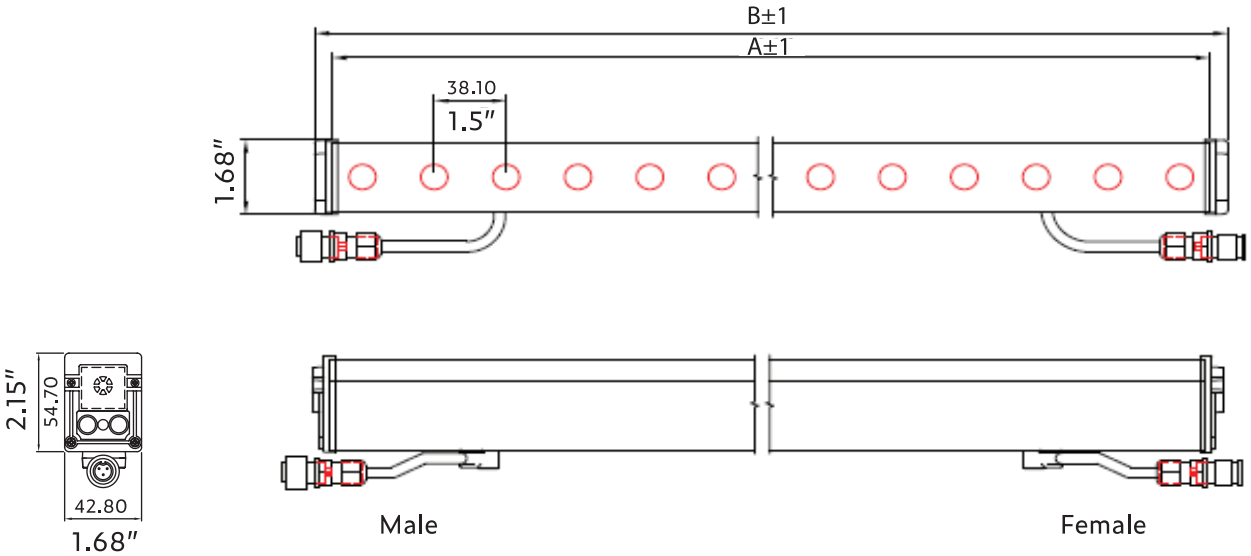


RGB

DIMENSIONS AND DATA

13w/ft	Voltage	View Angle	Watts/ Fixture	Lumens/ Fixture	LEDs/ Fixture	Extrusion Length	Total Length
HB40HP-10-XXK-XXD-ACD	100-277VAC	15°, 20°, 30° 45°, 60°, 75°, 90°, 120° 18°x26° 18°x58° 30°x60°	10w	313	3R, 3G, 3B	L=237.4mm	L=256mm (10”)
HB40HP-19-XXK-XXD-ACD			20w	595	6R, 6B, 6G	L=465.4mm	L=484mm (19”)
HB40HP-28-XXK-XXD-ACD			30w	877	9R, 9G, 9B	L=693.0mm	L=712mm (28”)
HB40HP-37-XXK-XXD-ACD			40w	1159	12R, 12G, 12B	L=921.4mm	L=940mm (37”)
HB40HP-46-XXK-XXD-ACD			50w	1441	15R, 15G, 15B	L=1149.4mm	L=1168mm (46”)

PROFILE



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HB40HP EXTERIOR LINEAR RGB LED LIGHTBAR

ORDER FORM

Date: .....
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Firm: .....

CREATE YOUR FIXTURE

Ex. HB40HP-46-RGB-45-AC-DM

MODEL

HB40HP	13w/ft.

LENGTH

10”	10 inches
19”	19 inches
28”	28 inches
37”	37 inches
46”	46 inches

COLOR

RGB	RGB

OPTICS

15	15°x15°
20	20°x20°
30	30°x30°
45	45°x45°
60	60°x60°
75	75°x75°
90	90°x90°
120	120°x120°
1826	18°x26°
1858	18°x58°
3060	30°x60°

VOLTAGE

AC	100-277vac

CONTROL

DM	Addressable/9"
DS	Addressable/fixture

SELECT CONNECTION

Wire Lead

QTY	POWER/SIGNAL	
	AL-HB5P-72”-W/L	72” (6ft) Wire lead 5pin
	AL-HB5P-xx”-W/L	xx” (CU) Wire lead 5pin

** 1 wire lead required for each run.*

End Cap

QTY		
	AL-HB3P-ENDCAP	End cap for fixture output at end of run

** 1 End cap required at the end of each*

Jumper Cable

QTY	POWER/SIGNAL	
	AL-HB5P-12”-J	12” (1ft) jumper 5pin
	AL-HB5P-72”-J	72” (6ft) jumper 5pin
	AL-HB5P-xx”-J	xx” (CU) jumper 5pin

** Fixtures are end to end connected. Use jumpers if space is needed between fixtures.*

SELECT MOUNTING

QTY	MOUNTING BRACKETS - 2 REQUIRED PER FIXTURE	
	AL-HB40ADJ BRACKET	HB40 Adjustable bracket
	AL-HB40FLAT BRACKET	HB40 Flat bracket

** Flat brackets only used if fixture is mounted in powder coated housing*

ADDITIONAL OPTIONS

Optional Powder Coated Finish

QTY	Powder coated finishes available for additional cost	
	BK	Black
	BZ	Bronze
	WH	White
	CU	Custom

** Fixture housing is anodized aluminum standard*

Surge Protection

QTY		
	LSP4-UNV	120/277v surge protector

Junction Boxes

QTY

	AC4A-3WB1-M	Power and signal splitter
	AC4A-3WB2-M	AC Power amplifier for long run lengths
	AC4A-3WB3-M	Power and Wire lead signal splitter

** Used in place of wire leads to separate power and signal*

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POWER/SIGNAL

DISTRIBUTION BOXES

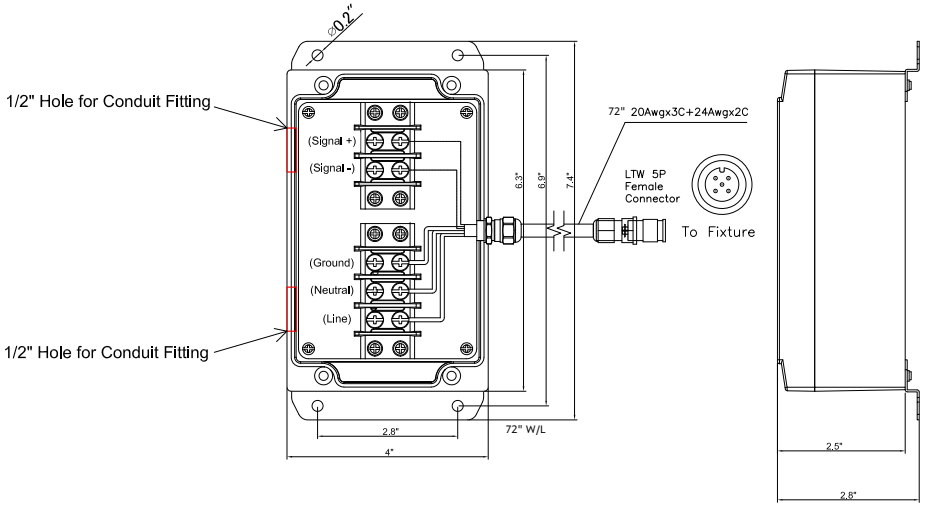
Used at the beginning of the run – All HB30 and HB40 Series

METAL JUNCTION BOX – POWER AND SIGNAL SPLITTER WITHOUT INPUT WIRES

JUNCTION BOX
AC4A-3WB1-M

INPUT
1/2" hole for conduit fitting for AC power
1/2" hole for conduit fitting for Signal

OUTPUT
72" Cable w 5P Female 5A Connector

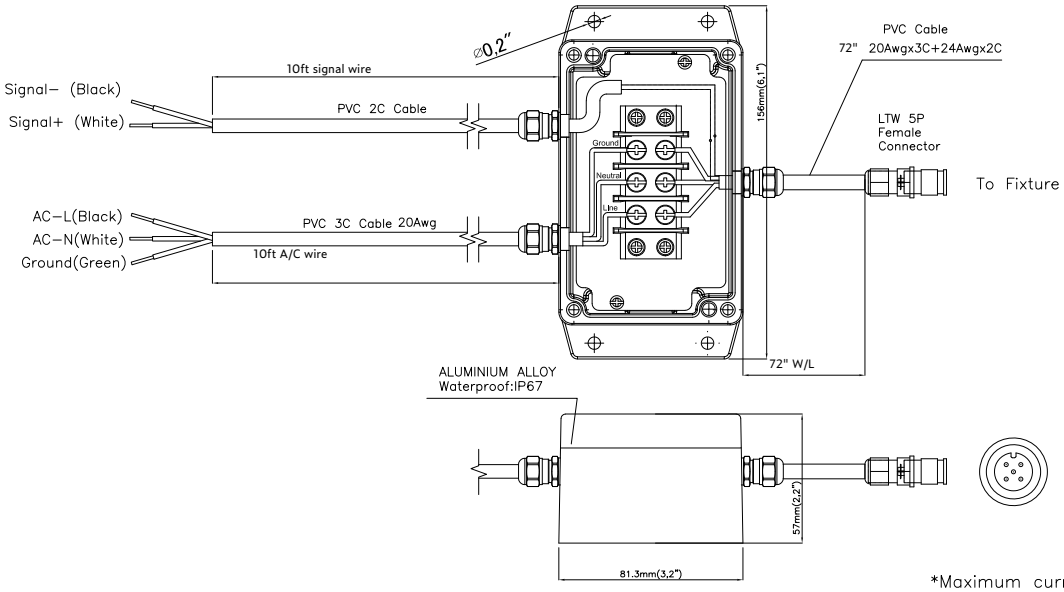


METAL JUNCTION BOX – POWER AND SIGNAL SPLITTER WITH INPUT WIRES

JUNCTION BOX
AC4A-3WB3-M

INPUT
10ft PVC 2C Cable for signal
10ft PVC 3C Cable for AC

OUTPUT
72" Cable w 5P Female 5A Connector



*Maximum current 4Amp

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POWER/SIGNAL

DISTRIBUTION BOXES

Used in the middle of the run – All HB30 and HB40 Series

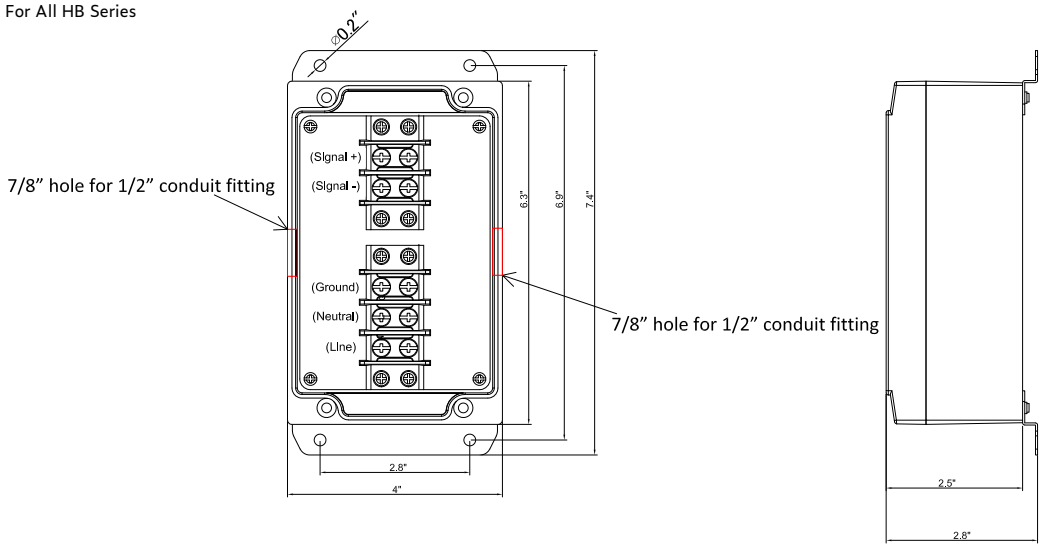
METAL JUNCTION BOX–AC POWER AND SIGNAL FOR LONG RUN LENGTHS FOR AC AND SIGNAL WIRE CONNECTION

JUNCTION BOX
AC-2WB2-M

INPUT
12” PVC Cable w/ 5P Male 5A Connector

OUTPUT
12” PVC Cable w/ 5P Female 5A Connector

For All HB Series

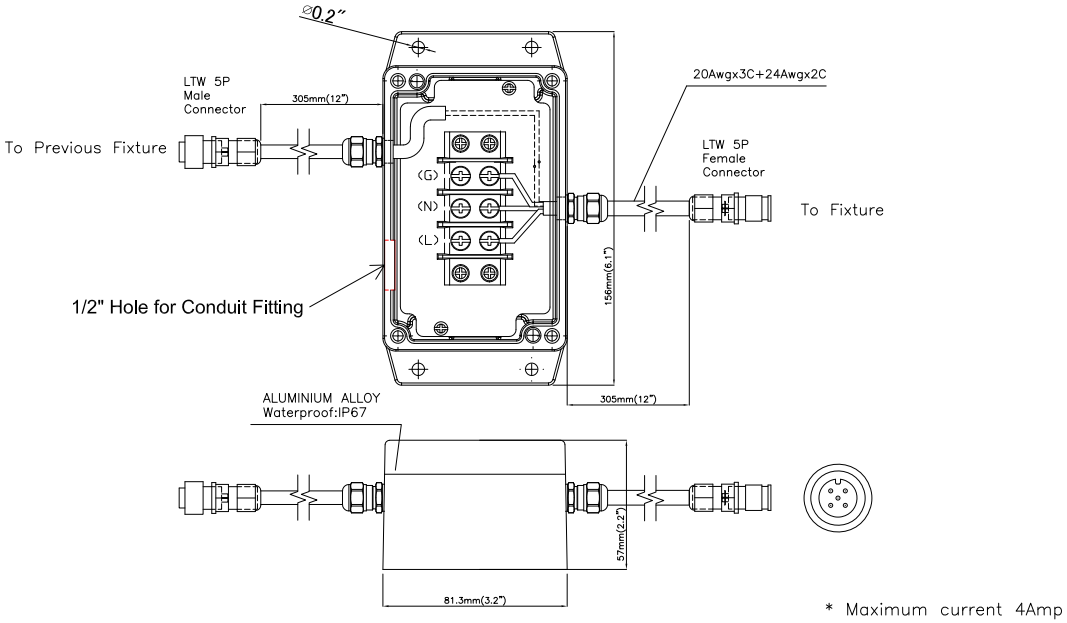


METAL JUNCTION BOX–AC POWER AMPLIFIER FOR LONG RUN LENGTHS

JUNCTION BOX
AC4A-3WB2-M

INPUT
12” PVC Cable w/ 5P Male 5A Connector

OUTPUT
12” PVC Cable w/ 5P Female 5A Connector



* Maximum current 4Amp

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HB40HP SERIES

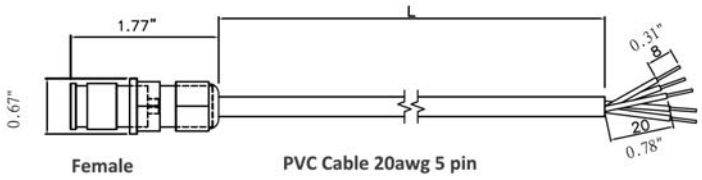
WIRING OPTIONS

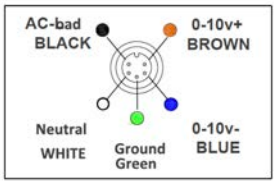
Date: .....
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WIRE LEAD

DESCRIPTION
5 pin power / signal wire

PART NUMBER
AL-HB5P-xx”-W/L

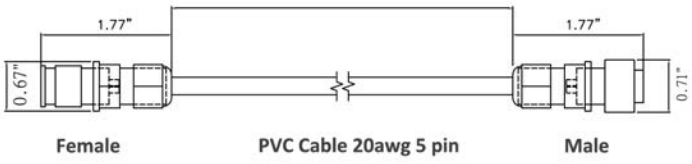


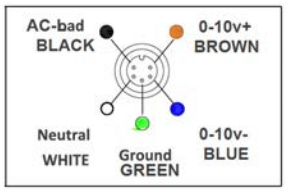


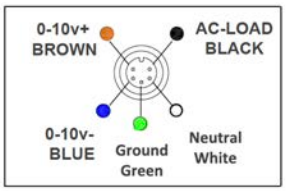
JUMPER CABLE

DESCRIPTION
5 pin power / signal jumper

PART NUMBER
AL-HB5P-xx”-J







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HB40HP SERIES

MOUNTING BRACKETS

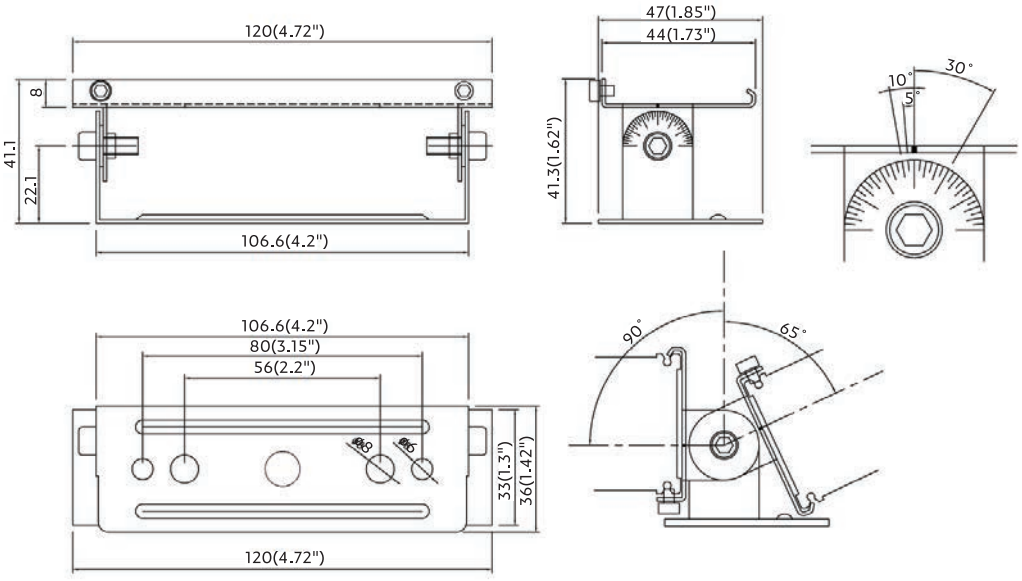
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ADJUSTABLE BRACKETS

DESCRIPTION
HB40 Adjustable Bracket

PART NUMBER
AL-HB40 ADJ.Bracket

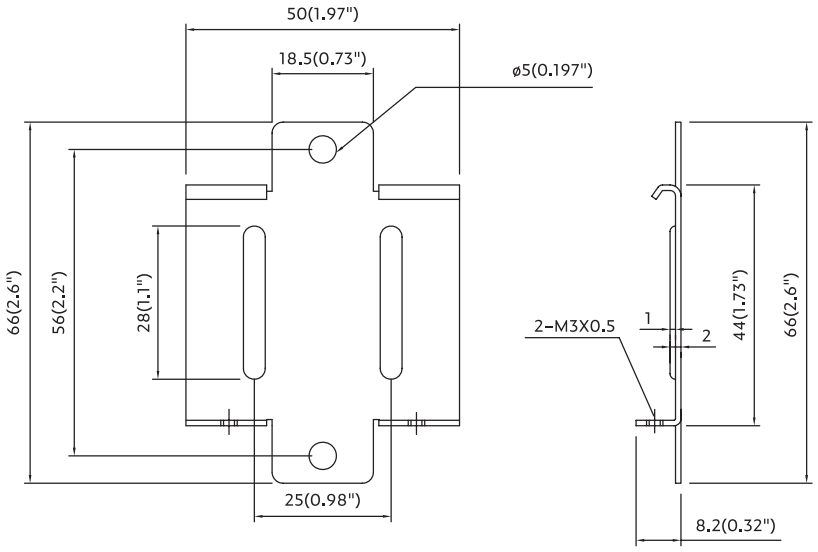




FLAT BRACKETS

DESCRIPTION
HB40HP Flat Bracket

PART NUMBER
AL-HB40HP-Flat Bracket



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HB40 SERIES

ORDER FORM

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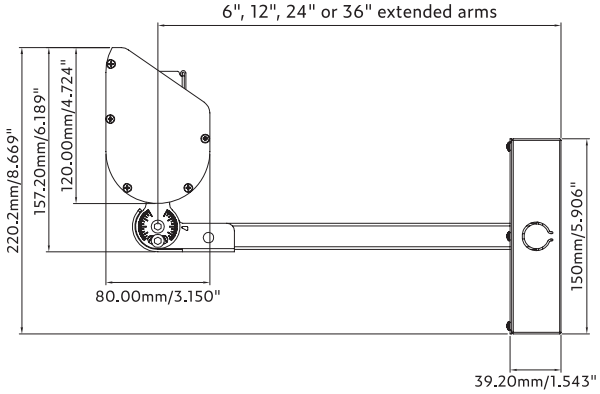
ADDITIONAL MOUNTING OPTIONS

Housing and Extended Arms

Fixture can be mounted in a powder coated housing with integral glare shield

QTY	Housing	(L) Housing Length	(F) Finish	(A) Extended Arm Length
	HB40EXT-	10”	BK - Black	6”
		19”	BZ- Bronze	12”
		28”	WH - White	18”
		37”	SI - Silver	24”
		46”	CU - Custom	36”
				GPA (Ground Post Arm)

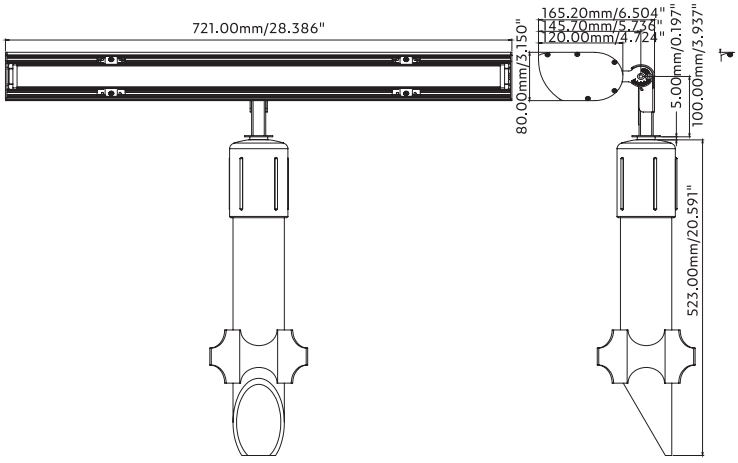




Ground Posts

QTY	Select when using GPA above (1 per fixture for 10”, 19" & 28” housing and 2 for 37” & 46” housing)	
	HBEXT-GPS	Ground post mount





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HB40HP SERIES

GLARE PROTECTION

Date: .....
Type: .....
Project: .....
Firm: .....

LOUVERS

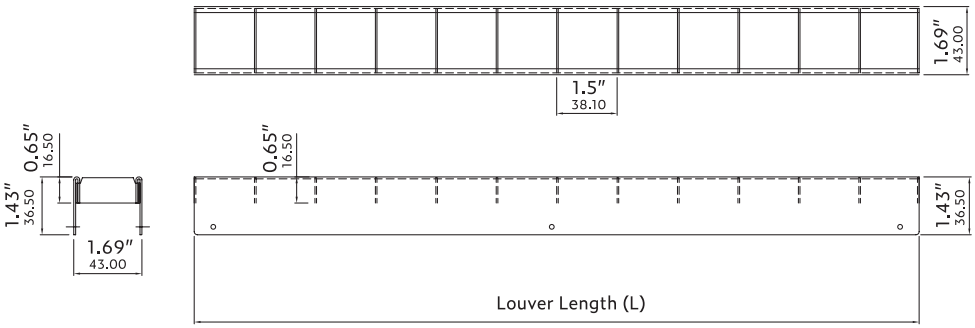
Glare Control

Standard black finish powder coated louvers

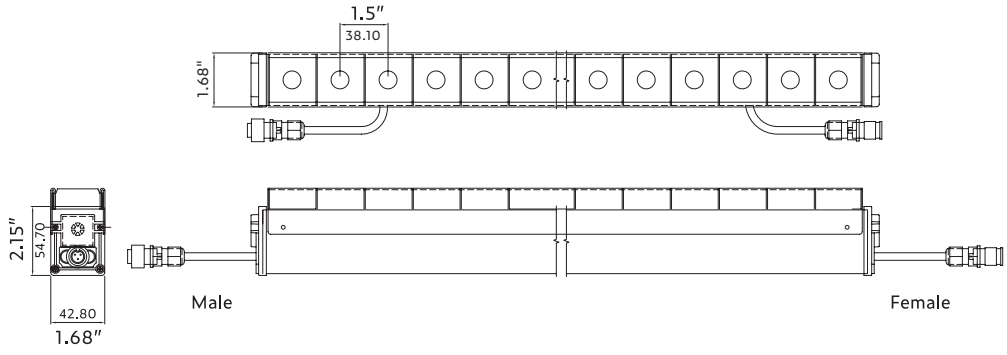
QTY	Housing	(L) Housing Length	(F) Finish
	HB40-10"LOUVER	10"	BK - Black
	HB40-19"LOUVER	19"	BZ- Bronze
	HB40-28"LOUVER	28"	WH - White
	HB40-37"LOUVER	37"	SI - Silver
	HB30-46"LOUVER	46"	CU - Custom

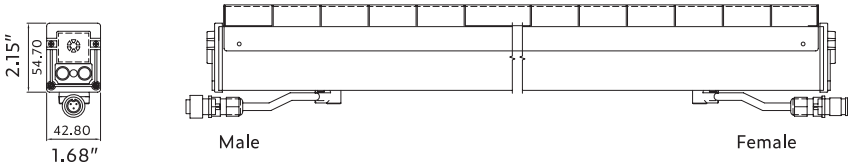
** Other powder coated finishes available for additional cost*











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Date: .....
Type: .....
Project: .....
Firm: .....

SURGE PROTECTION DEVICE

SURGE PROTECTION

DESCRIPTION
Surge Protection Device

PART NUMBER
AL-LSP-UNV

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

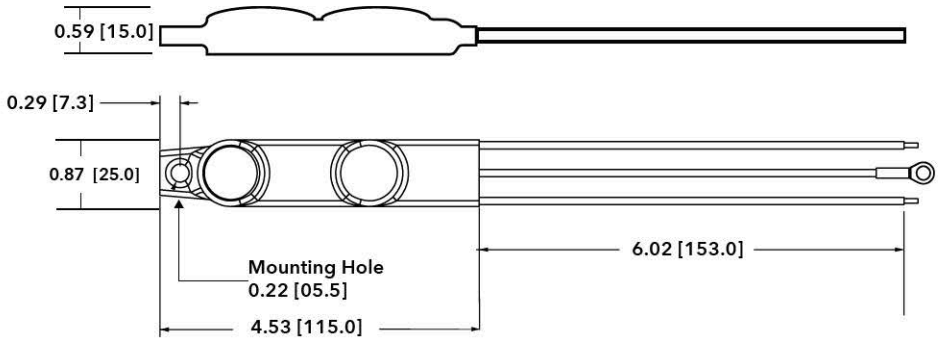
SPECIFICATIONS

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

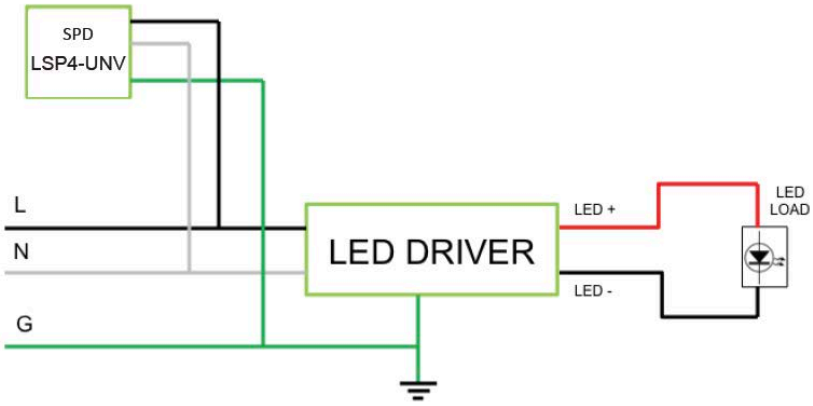
**1 strike at 20,000A*

MECHANICAL DIMENSIONS : IN (MM)





WIRING DIAGRAM



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