TSLC
THE SMART LIGHTING COMPANY

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



HB50A RGB

HIGH POWER LINEAR LED LIGHTBAR

High Power | High Intensity
20w/ft | 855lm/ft | DMX







Exterior: Graze | Wall Washing | Cove | Façade | General Lighting

The HB50A RGB is a powerful, high-performance exterior architectural fixture. This color-changing LED linear fixture delivers 20 watts per foot, tailor-made for architectural enhancement, such as wall grazing, washing, cove, façade, and flood illumination. Equipped with Nichia bin-sorted LEDs, and a range of precise optics to fine-tune your lighting effect, it ensures a high-quality, consistent output. Known for its reach and intensity over 60 feet, this fixture is DMX controlled and customizable in terms of length, color temperature, optics, and finishes. The HB50A RGB features a universal 100/277VAC power supply and is self-addressing, offering ease in integration and control. Installation is streamlined with a Plug and Play system, and multiple mounting options, including powder-coated housing with integral glare shields, to accommodate your architectural application.

DIMMABLE IP66 LM80 TESTED LEDS CSA c UL us LISTED NICHIA

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technology by LEDpower

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HB50A

HIGH POWER LINEAR LED LIGHTBAR

SPECIFICATIONS

Date: .....
Type: .....
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PERFORMANCE

Output
20w/ft | 855lm/ft

Color Temperatures
RGB

Beam Angles
15°, 20°, 30°, 45°, 60°, 75°, 90°, 120°, 15°x35°, 18°x58° & 30°x60°

LEDs per Foot
18 (6R, 6G, 6B) LEDs/ft.

LED's
Nichia bin-sorted

Color Consistency
2 SCDM

ELECTRICAL

Input Voltage
Universal 100/277VAC

Driver
Integrated Driver

Control
DMX

Resolution
Per 12" 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
12", 24", 36", 48"

Max Run Length
110ft@277vac, 48ft@120vac

Housing
Extruded gray aluminum

Lens
Tempered Glass

Fixture Finish (Standard)
Anodized aluminum

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

Standard Mounting
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

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HB50A

HIGH POWER LINEAR
LED LIGHTBAR

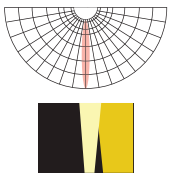
SPECIFICATIONS

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

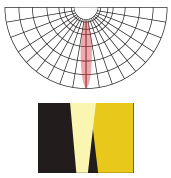
PHYSICAL

OPTICS

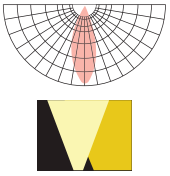
15°x 15°



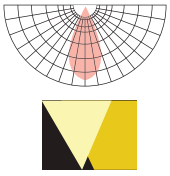
20°x 20°



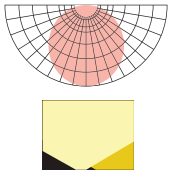
30°x 30°



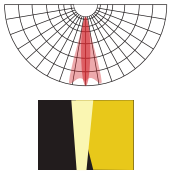
45°x 45°



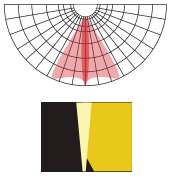
120°x 120°



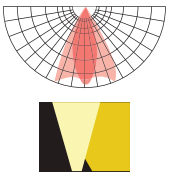
15°x 35°



18°x 58°



30°x 60°



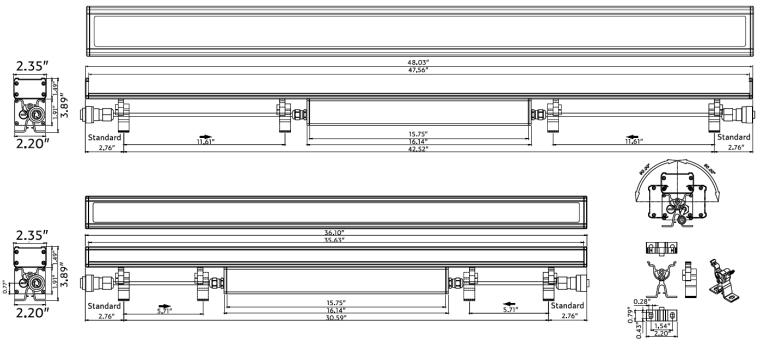
COLOR TEMPERATURES

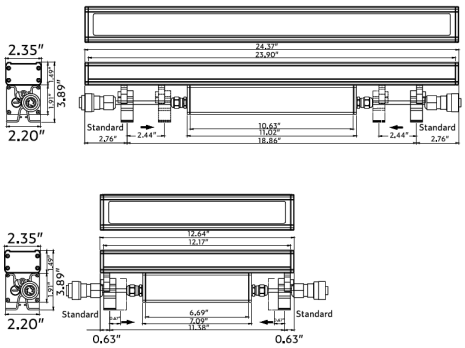


DIMENSIONS AND DATA

Model Number	Volt-age	View Angle	Watts/ Fixture	Lumens/ Fixture	LEDs Fixture	Extrusion Length	Total Length
HB50A-12”-RGB-XXD-AC-DX	100-277VAC	15°, 20°,30°, 45°, 60°, 75°, 90°, 120°, 15°x35°, 18°x58°, 30°x60°	20	855lm	6R, 6G, 6B	12.17” (309mm)	12.64” (321mm)
HB50A-24”-RGB-XXD-AC-DX			40	1710lm	12R, 12G, 12B	23.90” (607mm)	24.37” (619mm)
HB50A-36”-RGB-XXD-AC-DX			60	2565lm	18R, 18G, 18B	35.63” (905mm)	36.1” (917mm)
HB50A-48”-RGBXXD-AC-DX			80	3420lm	24R, 24G, 24B	47.56” (1208mm)	48” (1220mm)

PROFILE





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HB50A

HIGH POWER LINEAR
LED LIGHTBAR

ORDER FORM

Date: .....
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CREATE YOUR FIXTURE

Ex. HB50A-48-RGB-15-AC-DM

MODEL

HB50A

LENGTH

12”	12 inches
24”	24 inches
36”	36 inches
48”	48 inches

COLOR

RGB	RGB

OPTICS

15	15°x15°	1535	15°x35°
20	20°x20°	1858	18°x58°
30	30°x30°	3060	30°x60°
45	45°x45°		
60	60°x60°		
75	75°x75°		
90	90°x90°		
120	120°x120°		

VOLTAGE

AC	100-277vac

CONTROL

DM	Addressable/12"
DS	Addressable/fixture

SELECT CONNECTION

Wire Lead

QTY	POWER/SIGNAL	
	HB50-5P-72”-W/L	72” (6ft) Wire Lead
	HB50-5P-xx”- W/L	xx” (CU) Wire Lead (custom length – consult factory)

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

End Cap

QTY		
	HB50-5P-END CAP	End cap

Jumper Cable

QTY	POWER/SIGNAL	
	HB50-5P-12”-J	12” (1ft) Jumper Cable
	HB50-5P-72”-J	72” (6ft) Jumper Cable
	HB50-5P-xx”-J	xx” (CU) Jumper Cable (custom length – consult factory)

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*

DMX Controller

QTY		
	NIC-DMX-STICK-DE3	DMX controller

Surge Protection

QTY		
	LSP4-UNV	120/277v surge protector

Junction Boxes

QTY		
	AC8A-3WB1-M	Power and signal splitter
	AC8A-3WB2-M	AC Power amplifier for long run lengths
	AC8A-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 HB50 Series

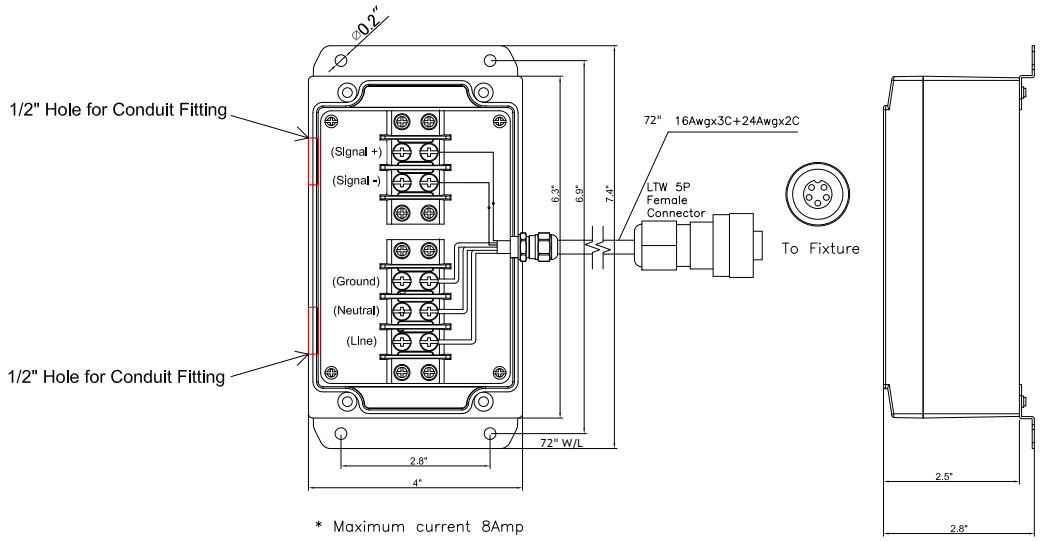
METAL JUNCTION BOX – POWER AND SIGNAL SPLITTER WITHOUT INPUT WIRES

JUNCTION BOX
AC8A-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

For All HB50 Series



* Maximum current 8Amp

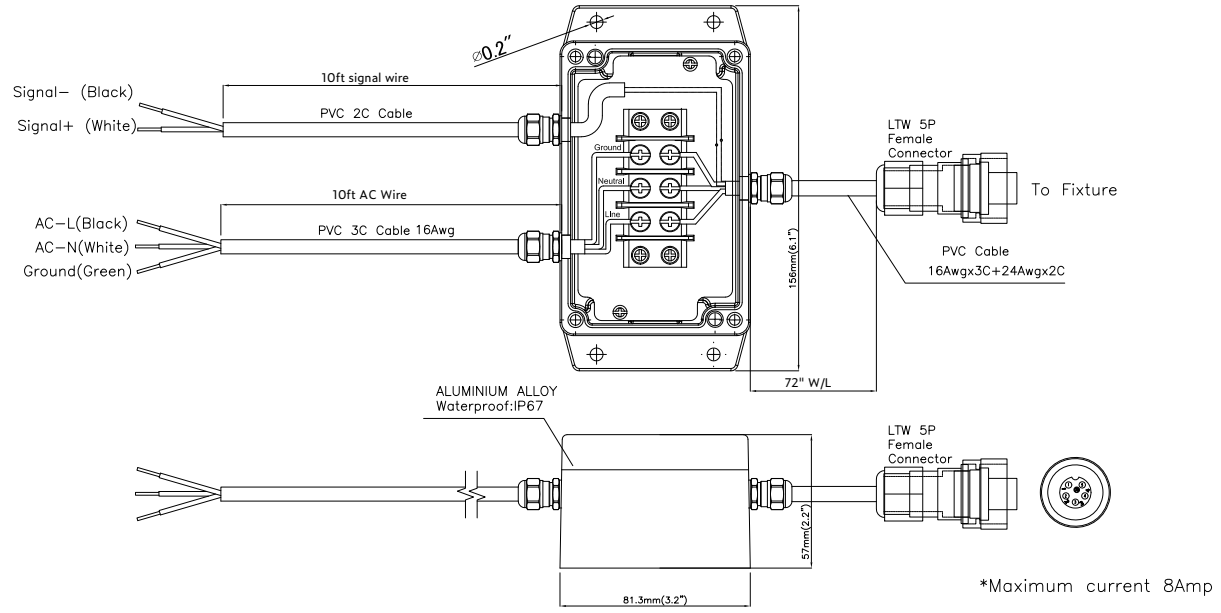
METAL JUNCTION BOX – POWER AND SIGNAL SPLITTER WITH INPUT WIRES

JUNCTION BOX
AC8A-3WB3-M

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

OUTPUT
72" Cable w 5P Female 5A Connector

For All HB50 Series



*Maximum current 8Amp

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POWER/SIGNAL

DISTRIBUTION BOXES

Used in the middle of the run – All HB50 Series

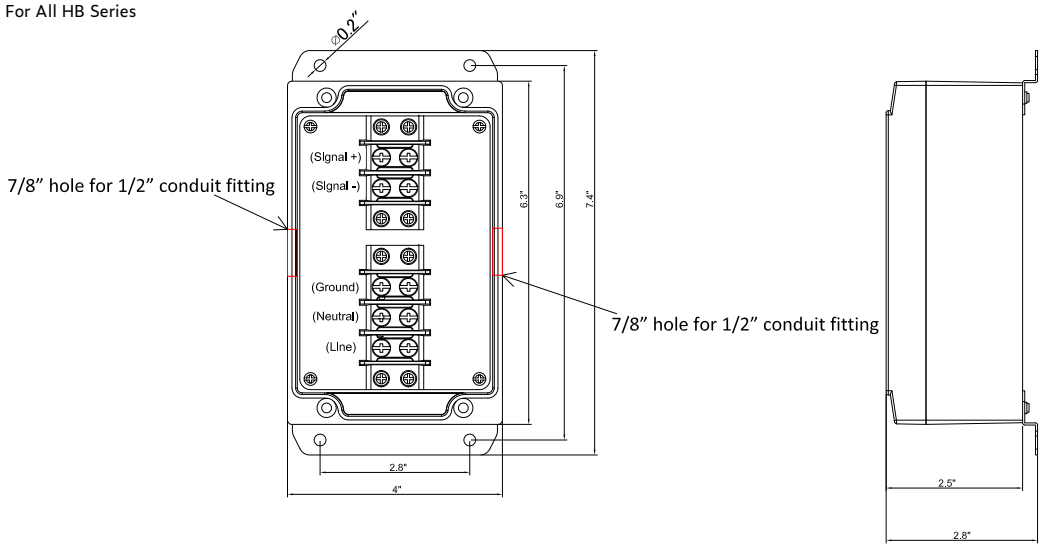
METAL JUNCTION BOX–AC POWER AND SIGNAL FOR LONG RUN LENGTHS FOR AC AND SIGNAL WIRE CONNECTION

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



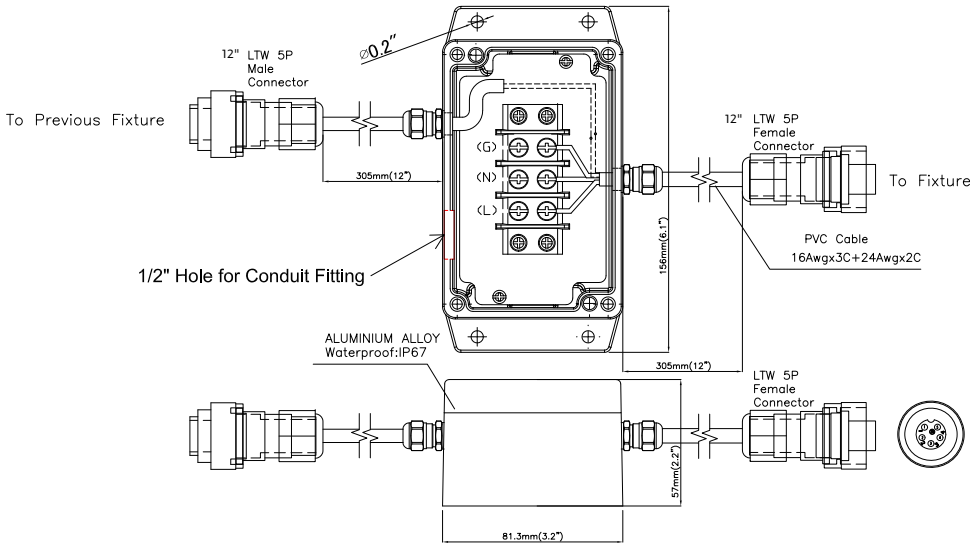
METAL JUNCTION BOX–AC POWER AMPLIFIER FOR LONG RUN LENGTHS

JUNCTION BOX
AC8A-3WB2-M

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

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

For All HB50 Series



* Maximum current 8Amp

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HB50 SERIES

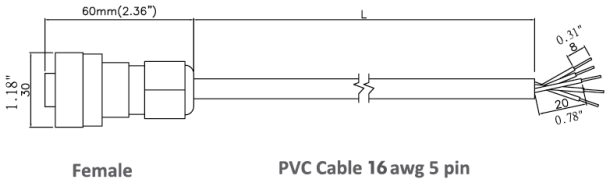
WIRING OPTIONS

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

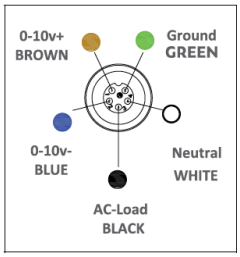
WIRE LEAD

DESCRIPTION
5 pin Power/Signal

PART NUMBER
HB50-5P-xx" 16W/L



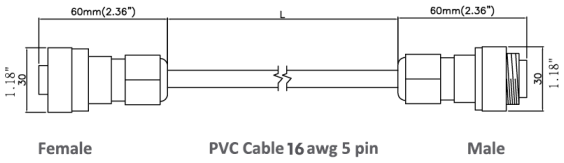
Female PVC Cable 16 awg 5 pin



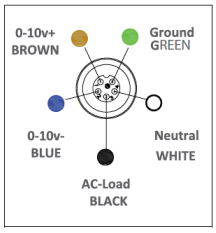
JUMPER CABLE

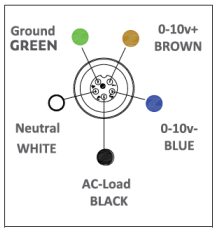
DESCRIPTION
5 pin Power/Signal

PART NUMBER
HB50-5P-xx" 16J



Female PVC Cable 16 awg 5 pin Male





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HB50 SERIES

ORDER FORM

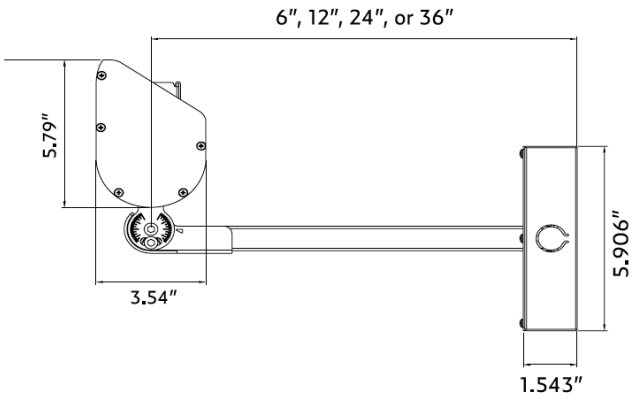
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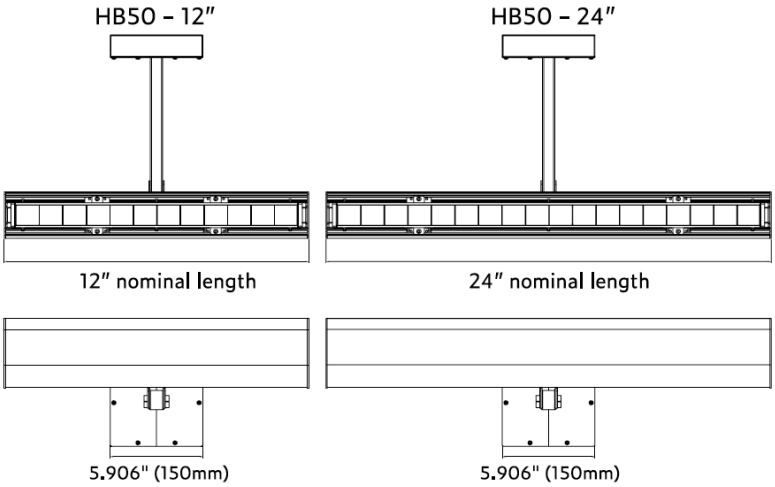
MOUNTING OPTIONS

Housing and Extended Arms

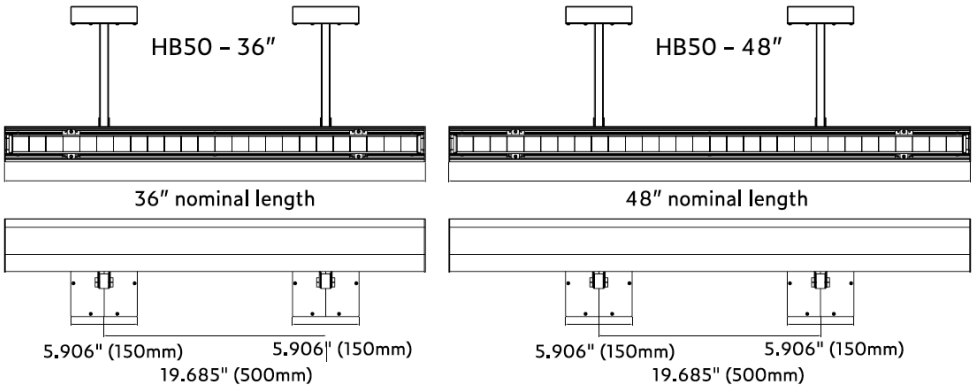
HB50EXT-XXL-XXF-XXA (L=Length, F=Finish, A= Extended arm length)

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).*

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HB50 SERIES

ORDER FORM

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

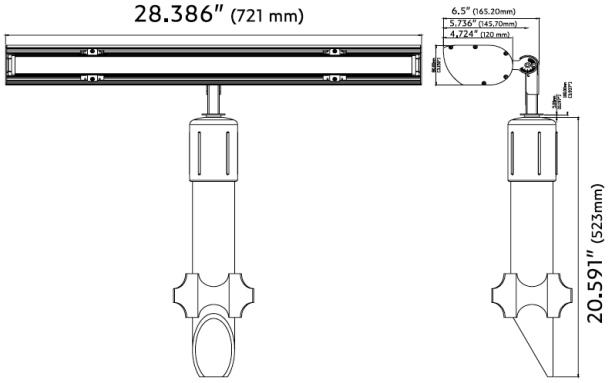
Ground Posts Stakes

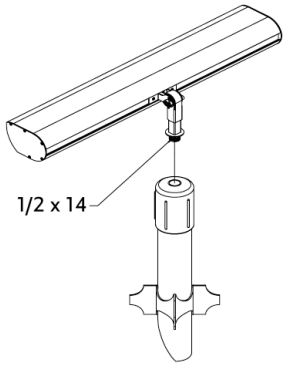
QTY **Select when using GPA above (1 per fixture for 12” & 24” housing and 2 for 36” & 48” housing)**

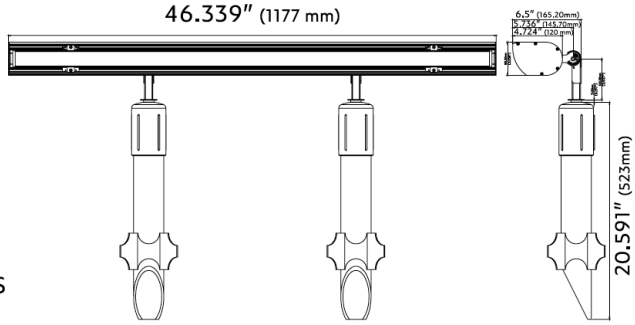
HBEXT-GPS Ground post mount

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









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

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HB50 SERIES

GLARE PROTECTION

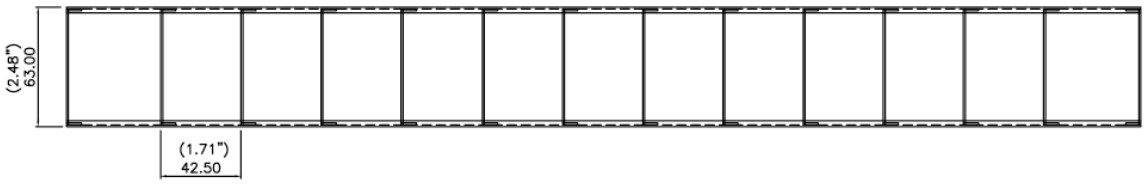
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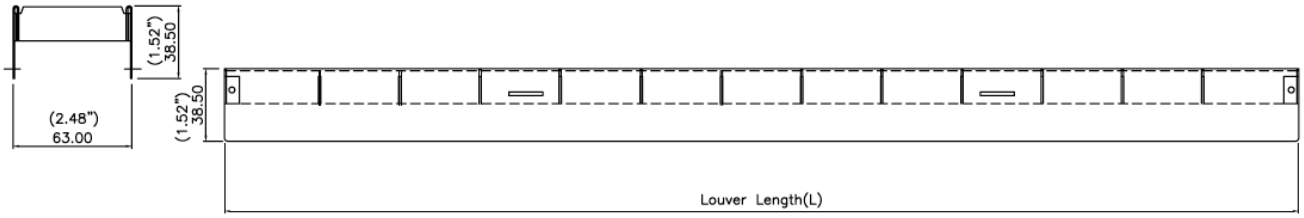
LOUVERS

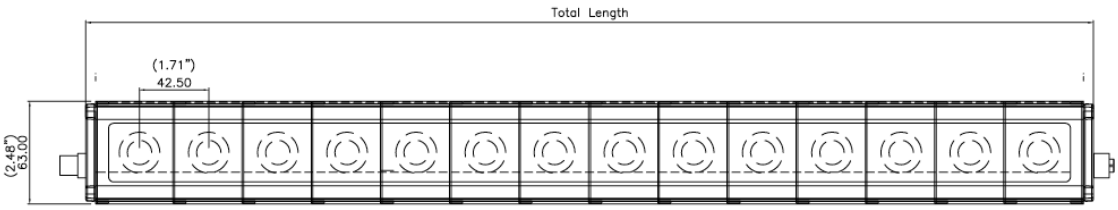
Glare Protection

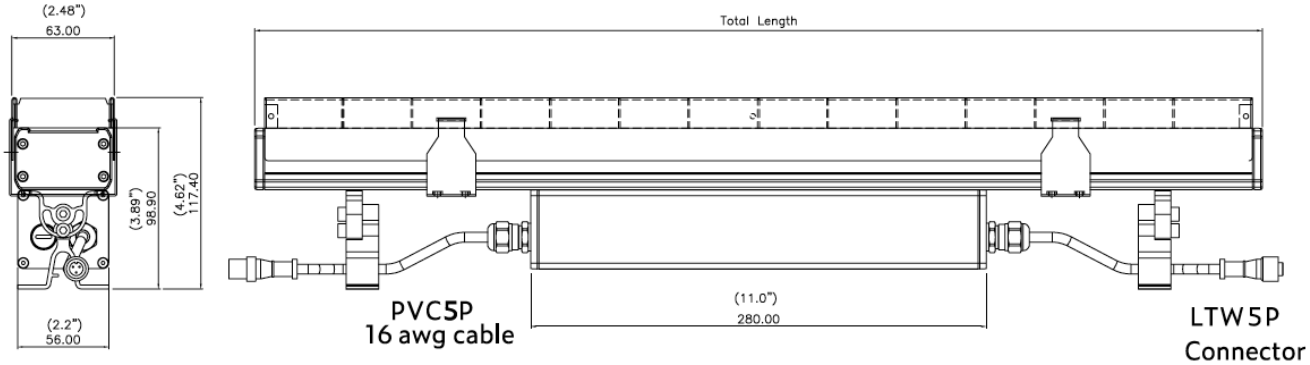
Standard louvers are in Black. Louvers are also available in Bronze, White, or custom.

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









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HB50 SERIES

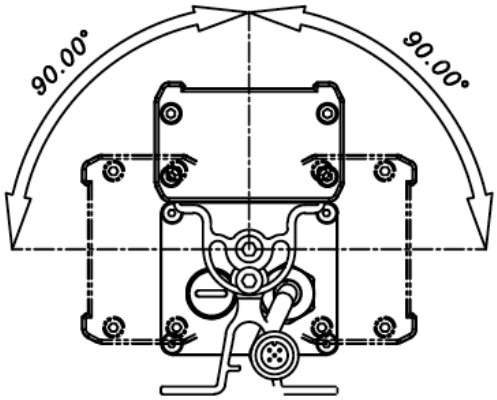
MOUNTING BRACKETS

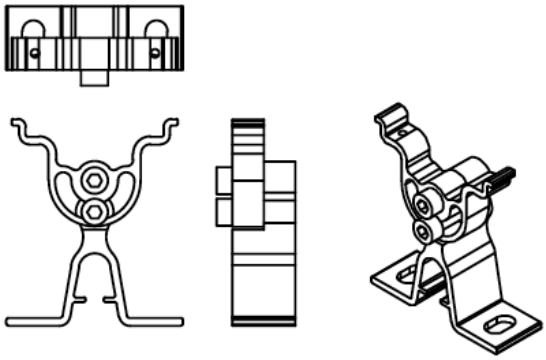
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Project: .....
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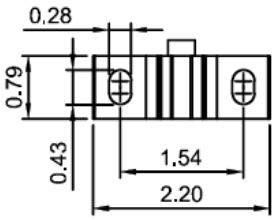
INTEGRATED ADJUSTABLE BRACKETS

DESCRIPTION
HB50 Adjustable Bracket

PART NUMBER
AL-HB50 ADJ.Bracket











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HB50 SERIES

SURGE PROTECTION DEVICE

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

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.

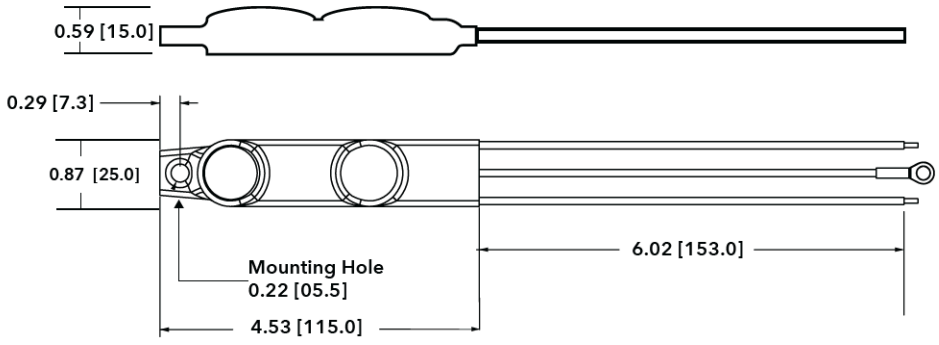
SPECIFICATIONS

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

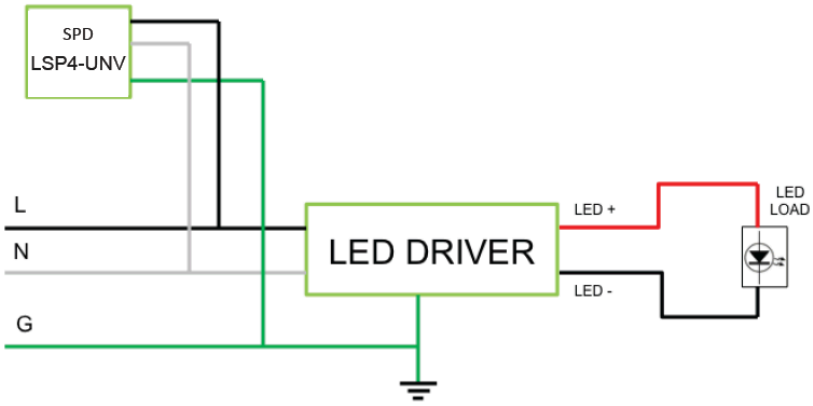
**1 strike at 20,000A*

MECHANICAL DIMENSIONS : IN (MM)





WIRING DIAGRAM



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