

Date:	
Туре:	
Project	:
Firm:	



HB50B

High Intensity | High Power 100/277VAC | 1368-1691 lm/ft



















HIGH POWER LINEAR LED LIGHTBAR

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

Introducing The Smart Lighting HB50B Series, a cost-effective yet high-power exterior architectural fixture designed to excel in highintensity grazing, wall washing, signage, and general illumination.

Capable of reaching over 10 stories or 100ft, the HB50B allows for precise customization with a broad selection of finely tuned optics to achieve your specific lighting goals. It features a universal 100/277VAC driver with integral 0-10v dimming capability and is available in options of 1368lm/ft or 1691lm/ft. Fitted with Nichia bin-sorted LEDs, the HB50B ensures high-quality, even illumination and comes with a powder-coated housing with integral glare shields.

The HB50B is easy to install, thanks to an integral universal power supply, a Plug and Play cable system, and diverse mounting options and accessories. The HB50B stands out as an affordable solution for uniform, precise, and impactful outdoor lighting.





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PERFORMANCE

Output

16w-1368 lm/ft | 20w-1691 lm/ft

Color Temperatures

22k, 27k, 30k, 35k, 41k, 50k, 65k, R, G, B, A

Beam Angles

8°, 15°, 20°, 30°, 45°, 60°, 75°, 90°, 120°, 8°x40°, 18°x58°, 13°x17°, 15°x35° & 30°x60°

LEDs per Foot

7

LED's

Nichia bin-sorted

Color Consistency

2 SCDM

CRI

83 standard, 92 optional

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

184ft @277vac; 80ft @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





Date:	
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PHYSICAL

HB50B 16

Fixture Wattage

16w/ft

System Wattage

15w/ft

Lumens

1368lm/ft @4100K

Max Run Length

138ft @277vac

120ft @240vac

60ft @120vac

HB50B 20

Fixture Wattage

20w/ft

System Wattage

17w/ft

Lumens

1691lm/ft @4100K

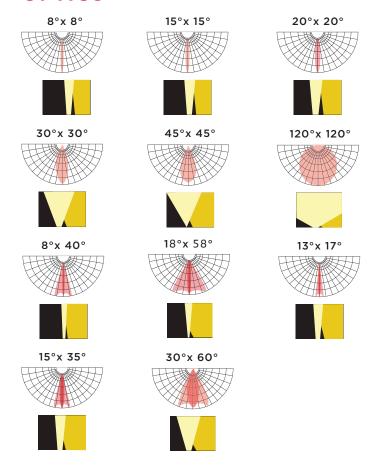
Max Run Length

110ft @277vac

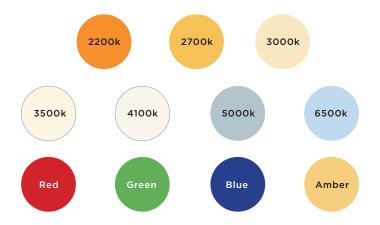
95ft @240vac

48ft @120vac

OPTICS



COLOR TEMPERATURES





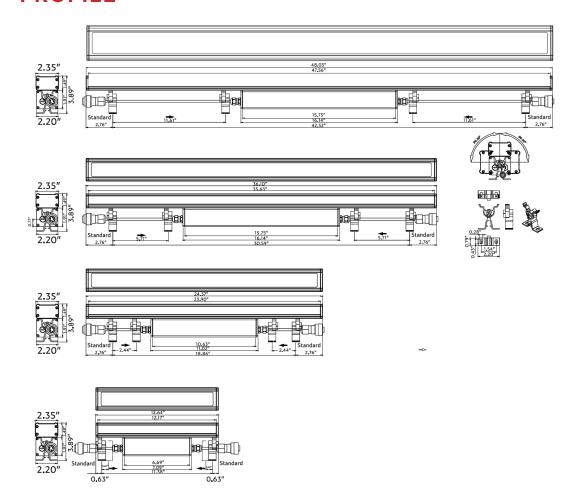
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DIMENSIONS AND DATA

Model Number	Volt- age	View Angle	LEDs/ pc	Lumens/ Fixture	Watts PCBS/pc	Extrusion Length(A)	Total Length(B)		
HB50B-12"-XXK-XXD-ACD-16	100/ 277VAC		100/	8°, 15°, 20°, 30°,	7	1368 lm	16	12.17" (309mm)	12.64" (321mm)
HB50B-24"-XXK-XXD-ACD-16				45°, 120°, 8°x40°,	14	2736 lm	32	23.90" (607mm)	24.37" (619mm)
HB50B-36"-XXK-XXD-ACD-16			10°x60°, 13°x17°, 15°x35°,	21	4104 lm	48	35.63" (905mm)	36.1" (917mm)	
HB50B-48"-XXK-XXD-ACD-16		30°x60°	28	5472 lm	64	47.56" (1208mm)	48" (1220mm)		

Model Number	Volt- age	View Angle	LEDs/ pc	Lumens/ Fixture	Watts PCBS/pc	Extrusion Length(A)	Total Length(B)	
HB50B-12"-XXK-XXD-ACD-20	100/ 277VAC	100/	8°, 15°, 20°, 30°,	7	1691 lm	20	12.17" (309mm)	12.64" (321mm)
HB50B-24"-XXK-XXD-ACD-20			100/	45°, 120°, 8°x40°,	14	3382 lm	40	23.90" (607mm)
HB50B-36"-XXK-XXD-ACD-20		10°x60°, 13°x17°, 15°x35°,	21	5073 lm	60	35.63" (905mm)	36.1" (917mm)	
HB50B-48"-XXK-XXD-ACD-20			30°x60°	28	6764 lm	80	47.56" (1208mm)	48" (1220mm)

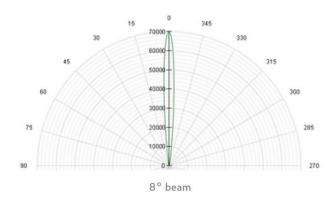
PROFILE

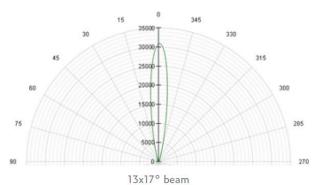


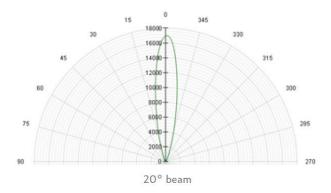


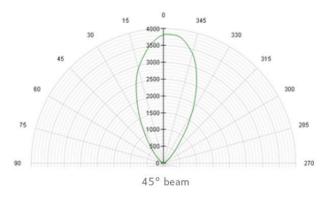
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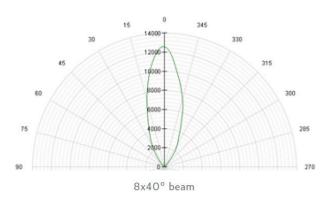
POLAR CANDELA DISTRIBUTION

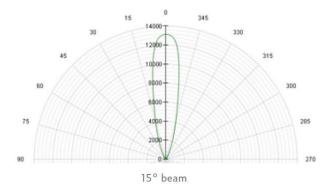


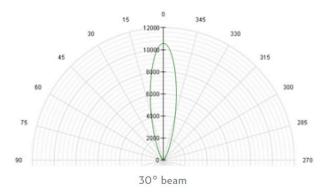














ORDER FORM

Date:
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CREATE YOUR FIXTURE

Example - HB50B-48-41-840-ACD-20

MODEL		LENGTH		COI	LOR			ОРТ	ICS		
HB50B - 16 HB50B - 20		12" 24" 36" 48"	12 inches 24 inches 36 inches 48 inches	22k 27k 30k 35k 41k 50k 65k	2200k 2700k 3000k 3500k 4100k 5000k 6500k	R B G A	Red Blue Green Amber	8 840 1317 15 1535 1060 20	8°x 8° 8°x 40° 13°x 17° 15°x 15° 15°x 35° 10°x 60° 20°x 20°		WASH 30°x 30° 30°x 60° 45°x 45° 60°x60° 75°x75° 90°x90°
VOLTAGE		CONTROL		WA	TTAGE					120	120° x120°
AC	100-277vac	D ND N	Dimming Non Dimming	16 20			16w/ft 20w/ft				

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)
QTY	POWER	
	HB50-3P-72"-W/L	72" (6ft) Wire Lead
	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

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)
QTY	POWER	
	HB50-3P-12"-J	12" (1ft) Jumper Cable
	HB50-3P-72"-J	72" (6ft) Jumper Cable
	HB50-3P-72"-J HB50-3P-xx"-J	72" (6ft) Jumper Cable xx" (CU) Jumper Cable

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

Surge Protection

QTY

LSP4-UNV

120/277v surge protector

Dimmer Switch

QTY

IP710-DLZ

0-10V Dimmer

Optional Powder Coated Finish

QTY	Powder	oated finishes available for additional cost	t
	ВК	Black	
	BZ	Bronze	
	WH	White	
	CU	Custom	

^{*} Fixture housing is anodized aluminum standard



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



ORDER FORM

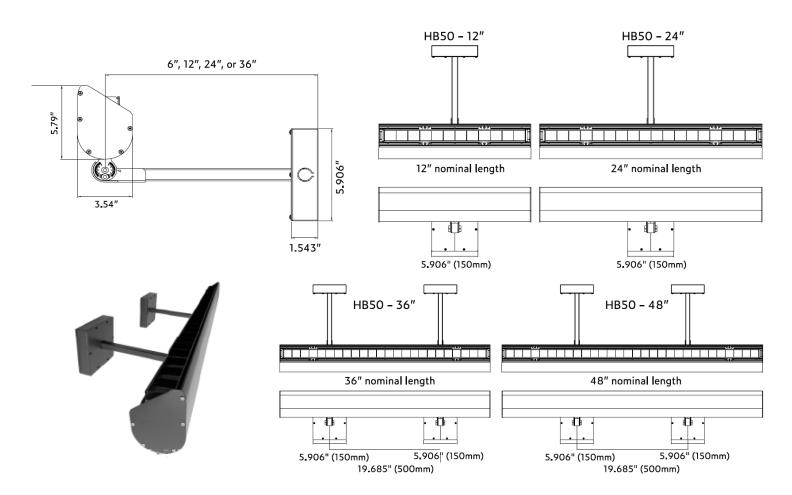
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MOUNTING OPTIONS

Housing and Extended Arms

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

	Housing	(L) Housing Length	(F) Finish	(A) Extended Arm Length
QTY				
	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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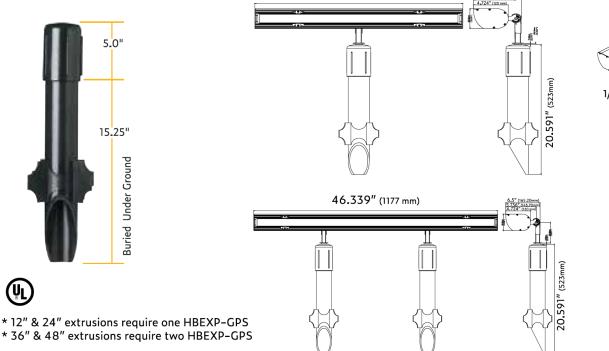
Ground Posts Stakes

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

28.386" (721 mm)

Ground post mount

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











GLARE PROTECTION

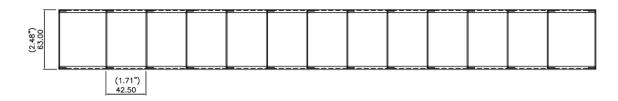
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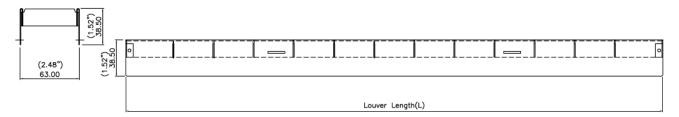
LOUVERS

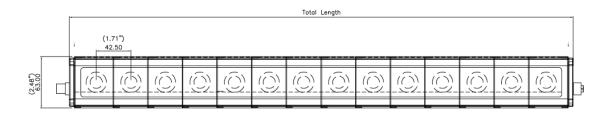
Glare Protection

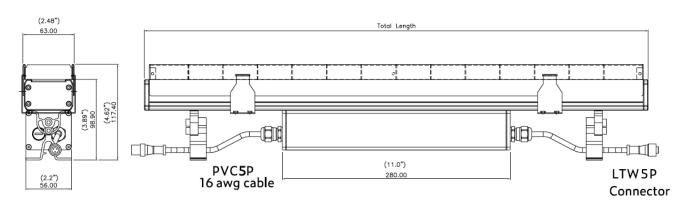
Standard louvers are in Black. Louvers are also available in Bronze, White, or custom.

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













WIRING OPTIONS

Date:			 -
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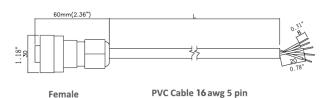
WIRE LEAD

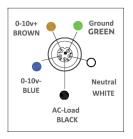
DESCRIPTION

PART NUMBER

5 pin 0-10v dimming wire lead

HB50-5P-xx" 16W/L



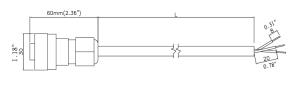


DESCRIPTION

PART NUMBER

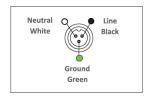
3 pin non-dimming wire lead

HB50-3P-xx" 16W/L



Female

PVC Cable 16 awg 3 pin



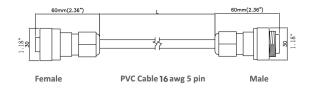
JUMPER CABLE

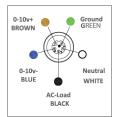
DESCRIPTION

PART NUMBER

5 pin 0-10v dimming jumper

HB50-5P-xx" 16J





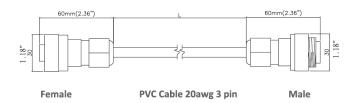


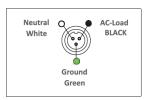
DESCRIPTION

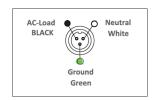
PART NUMBER

3 pin non-dimming jumper

HB50-3P-xx" 16J













MOUNTING BRACKETS

Date:
Type:
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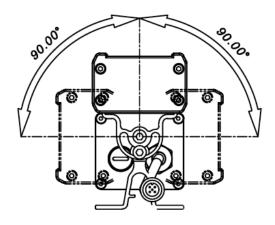
INTEGRATED ADJUSTABLE BRACKETS

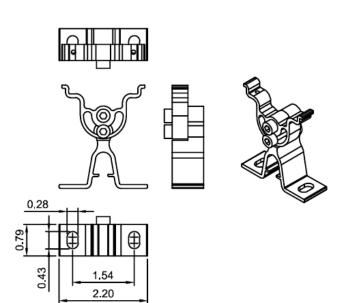
DESCRIPTION

PART NUMBER

HB30 Adjustable Bracket

AL-HB30 ADJ.Bracket













SURGE PROTECTION DEVICE

Date:			 -
Туре:		 	 ······
Projec	t:	 	
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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.

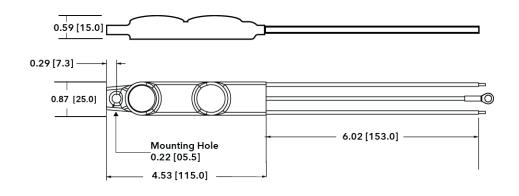
SPECIFICATIONS

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			
Manager de la constitue de Valla de OVA	L-N	L-G	N-G	
Measured Limiting Voltage (VpK)	1200	1320	1320	
Max Case Temperature	85°C			

PULSE RATING (8 X 20 SEC)					
Surge	# of Strikes				
Level	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

