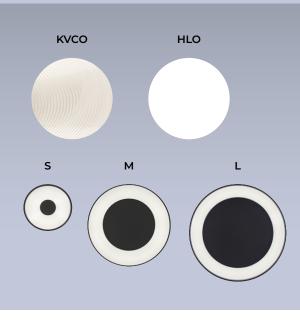
CLUSTER PI recessed KVCO, HLO OPTICS





Cluster Pi with KVCO™ integrate





Cluster Pi Family (Refer to other spec sheets)

Recessed

























KVCO / HI O

Soft





Project:	
Туре:	

SENSORS For latest information on sensors, click <u>here</u>.



Order Guide

1 - Housing

LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	INSTALLATION TYPE	MOUNTING OPTION 1	VOLTAGE
		SW			
CLUPISR - Cluster Pi S Recessed CLUPIMR - Cluster Pi M Recessed CLUPILR - Cluster Pi L Recessed	TRM - Flanged trim TLMP - Trimless drywall mudplate TLMW - Trimless millwork	SW - Static white	OF - Open Frame Type Non-IC RM - Remodel Type Non-IC	ASB ² - Adjustable standard bar hangers FMB ² - Flush mount bars ACB ² - Adjustable commercial bar hangers AHC ² - Adjustable hat channel bars NA - None	120V - 120V 277V - 277V UNV - 120V-277V
				¹ See page 5 for more details. ² Not available with RM installation type.	

LU	MEN PACKAGE ³		DIMMING ⁴			
	KVCO	HLO	INTEGRAL DRIVER		REMOTE DRIVER 8	
S	360LM - 360 lm	400LM - 400 lm	D1 - 1% 0-10V	ELD1 - eldoLED 1% ECOdrive	RD1 - 1% 0-10V	RELD1 - eldoLED 1% ECOdrive
М	700LM - 700 lm	780LM - 780 lm	ELV 5,6 - ELV 120V TRI 5,6 - TRIAC 120V	0-10V ELD0 - eldoLED 0.1%	RELV ^{5, 6} - ELV 120V RTRI ^{5, 6} - TRIAC 120V	0-10V RELD0 - eldoLED 0.1%
L	1200LM - 1200 lm	1350LM - 1350 lm	LDE1 ^{6,7} - Lutron Hi-Lume 1% Eco DA ⁷ - DALI	SOLOdrive 0-10V PEQ0 ⁷ - Lutron Hi-Lume	RLDE1 ^{6,7} - Lutron Hi-Lume 1% Eco	SOLOdrive 0-10V RPEQ0 ⁷ - Lutron Hi-Lume
3 De	livered lumens at 90 CRI, 3	500K.		Premier 0.1% EcoSystem	RDA 7 - DALI	Premier 0.1% EcoSystem
			⁴ PoE (Power-over-Ethernet) compatible. ⁵ Available with 120V only. ⁶ Not available with Cluster Pi S.	Consult factory for details.	⁷ On-site commissioning is required. ⁸ A remote driver box is provided, see	page 3 for details.

2 - Light

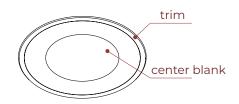
LUMINAIRE ID	TRIM STYLE	LIGHT SOURCE	OPTIC
		SW	
CLUPISRL - Cluster Pi S Recessed	TRM - Flanged trim	SW - Static white	KVCO - Kinetic Visual Comfort Optic HLO - High-Efficiency Lambertian Optic
CLUPIMRL - Cluster Pi M Recessed	TLMP - Trimless drywall mudplate TLMW - Trimless millwork		HLO - High-Efficiency Lampertian Optic
CLUPILRL - Cluster Pi L Recessed			

CRI	COLOR TEMPERATURE	TRIM FINISH	CENTER BLANK FINISH
90CRI			
90CRI - 90 CRI	27K - 2700K	FTMW - Textured matte white	FTMW - Textured matte white
	30K - 3000K	FTMB - Textured matte black	FTMB - Textured matte black
	35K - 3500K 40K - 4000K	CF# - Custom finish, specify RAL#	CF# - Custom finish, specify RAL#
	50K - 5000K		



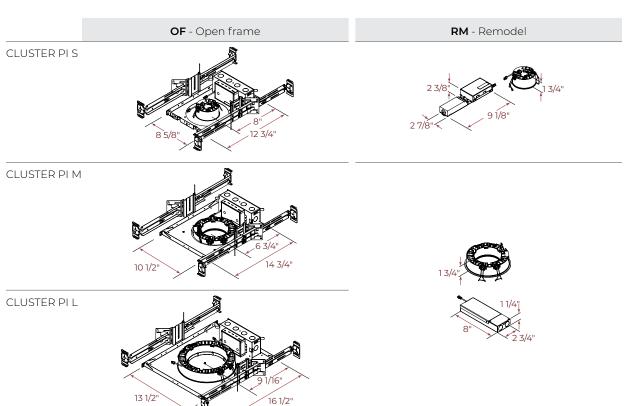


Overview

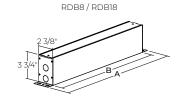


Housing

INSTALLATION TYPE



REMOTE DRIVER BOX



	RDB8	RDB18
Α	10"	20"
В	8"	18"
DRIVER	RD1 - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V RPEQO - Lutron Hi-lume Premier 0.1% EcoSystem	RLDE1 - Lutron Hi-lume 1% Eco RDA - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V



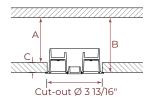




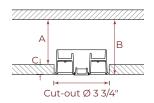
Lumenwerx

CEILING DETAILS



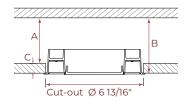


TRM - Flanged trim **TLMP** - Trimless drywall mudplate

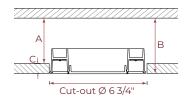


TLMW - Trimless millwork

CLUSTER PI M

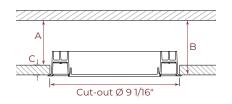


TRM - Flanged trim **TLMP** - Trimless drywall mudplate

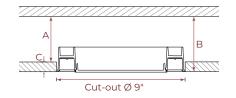


TLMW - Trimless millwork

CLUSTER PI L



TRM - Flanged trim **TLMP** - Trimless drywall mudplate



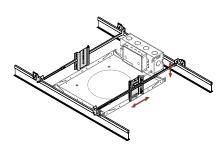
TLMW - Trimless millwork

	PLENUI	С		
	A OPEN FRAME REMOTE & INTEGRAL	B REMODEL INTEGRAL	B REMODEL REMOTE	MAXIMUM CEILING THICKNESS
S	4 1/4" (3 3/4" for FMB)	7 1/2"	3 3/4"	1 1/8"
М	4 1/4" (3 3/4" for FMB)	3 3/4"	3 3/4"	1 1/8"
L	4 1/4" (3 3/4" for FMB)	3 3/4"	3 3/4"	1 1/8"

Lumenwerx

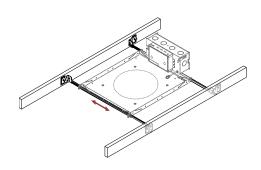
MOUNTING OPTIONS

ASB - Adjustable Standard Bar Hangers



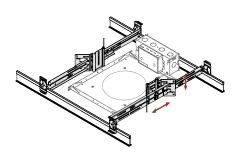
Adjustable Standard Bar hangers can be used in both commercial and residential applications and are adjustable to various heights in both Grid Ceiling and Drywall mounting. ASB hangers are less rigid and versatile than ACB hangers.

FMB - Flush Mount Bars



Flush Mount Bars are best used in residential applications, fitting snug to the surface and suitable for Wood, Metal, and Drywall mounting. The flush mounted bars are static and can't be adjusted.

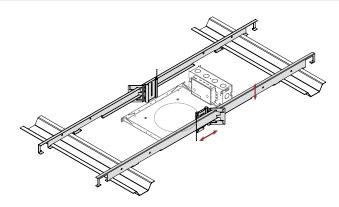
ACB - Adjustable Commercial Bar Hangers



Adjustable Commercial Bar hangers can be used in both commercial and residential applications and are by far the most versatile mounting bar we offer with its adjustability to various heights. ACB hangers are suitable for Grid Ceiling, Drywall, Metal, Wood and Frame mounting.

- · Extremely rigid
- · Fits into C-Channel notches in a Butterfly Bracket

AHC - Adjustable Hat Channel Bars



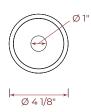
Adjustable Hat Channel bars can be used in both commercial and residential applications and come with a butterfly clip to adjust to various heights. AHC bars can be hung downward by 90 degrees in vertical position, and once wired, can be shifted onto the horizontal mounting plane. AHC bars are suitable for both Drywall and wood ceiling applications.



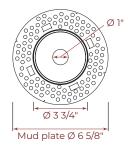
Lumenwerx

Light

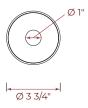
CLUSTER PLS



TRM - Flanged trim

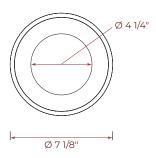


TLMP - Trimless drywall mudplate

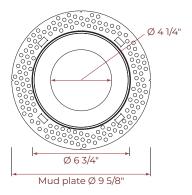


TLMW - Trimless millwork

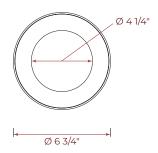
CLUSTER PI M



TRM - Flanged trim

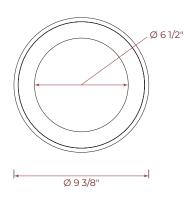


TLMP - Trimless drywall mudplate

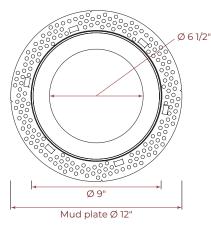


TLMW - Trimless millwork

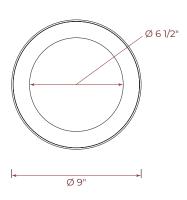
CLUSTER PI L



TRM - Flanged trim



TLMP - Trimless drywall mudplate



TLMW - Trimless millwork

CLUSTER PI recessed KVCO, HLO OPTICS



Photometrics

Values calculated based on 3500K and 90 CRI for all optics.



	LM	W	LM/W
S	360	4.9	73
М	700	8.2	85
L	1200	16.7	72



	LM	W	LM/W
S	400	4.9	82
М	780	8.2	95
L	1350	16.7	81

MULTIPLIER TABLE

Use the table to get results for different color temperatures for all photometric tables.

Multiplier - CCT/CRI

сст	WATTS 90 CRI	LPW 90 CRI
2700K	1.04	0.95
3000K	1.02	0.98
3500K	1	1
4000K	0.97	1.02
5000K	0.96	1.05



Technical Specifications

Kinetic Visual Comfort Optic™ (KVCO™)

The Kinetic Visual Comfort Optic™ is finely crafted with a series of concentric grooves serving as light-bending prisms that redirect parallel rays to a common focal length. The resulting beams are precise and clean. The optic can change in appearance depending on the lighting conditions in its immediate surroundings.

High-Efficiency Lambertian Optic (HLO)

The High-Efficiency Lambertian Optic (HLO) is engineered with reflective sidewalls that distribute LED output across acrylic shielding, delivering soft, diffused beams. To negotiate the curves of Lumenwerx rounded fixtures, the HLO is equipped with proprietary SupremeGrip™ technology, which keeps the optic securely in place.

LIGHT SOURCE

Custom array of mid-flux LEDs are cartridge-mounted with quickconnect wiring to facilitate service and thermal management. Available in 2700K, 3000K, 3500K, 4000K, and 5000K with 90 CRI and elevated R9 value. Color consistency maintained to within 3 SDCM. All LEDs have been tested in accordance with IESNA LM-80-08 and the results have shown L80 lumen maintenance greater than 60,000 hours. Absolute product photometry is measured and presented in accordance with IESNA LM-79, unless otherwise indicated.

ELECTRICAL

Unless otherwise specified, dimming down to 1%. At maximum driver load: efficiency>84%, PF>0.9, THD<20%.

Integral driver: 0-10V, ELV, TRIAC, Lutron Hi-Lume EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V Remote driver: 0-10V, ELV, TRIAC, Lutron Hi-Lume EcoSystem, DALI, eldoLED 0.1% SOLOdrive 0-10V, eldoLED 1% ECOdrive 0-10V

PoE

Depending on the PoE manufacturer selected, Lumenwerx will install the node in factory as either integral to the luminaire or as a remote module. Factory programming of the PoE node may or may not enable the following functionalities: lumen package, DUO (tunable white), QUADRO (RGBW), emergency battery backup, and sensor integration. These must be addressed and evaluated on a case-by-case basis.

CONSTRUCTION

Housing: Die-cast aluminum

Lens: Acrylic

Mounting frame: Galvanised steel

Finish: Textured matte white and matte black. Custom colors also available (provide RAL #).

WEIGHT

	<u>Open frame</u>	Remodel
Cluster Pi S	3 lbs - 1.3 kg	0.53 lbs - 0.24 kg
Cluster Pi M	4.3 lbs - 2 kg	1.25 lbs - 0.6 kg
Cluster Pi L	5 lbs - 2.25 kg	1.8 lbs - 0.8 kg

CERTIFICATION

ETL: Rated for indoor dry/damp locations. Conforms to UL Standard 1598 and certified to CAN/CSA Standard C22.2 No. 250.0.

WARRANTY

Lumenwerx provides a five-year limited warranty of electrical and mechanical performance of the luminaires, including the LED boards, drivers, and auxiliary electronics. Lumenwerx will repair or replace defective luminaires or components at our discretion, provided they have been installed and operated in accordance with our specifications. Other limitations apply, please refer to the full warranty on our website.





