



Cluster Pi with KVCO[™] integrate



Cluster Pi Family (Refer to other spec sheets) MRO Recessed Add-ons Recessed Pendant Surface KVCO / HLO

Soft

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Intertek

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Project:

Type:



Order Guide

LUMINAIRE ID	FIXTURE FINISH	REVEAL FINISH	CENTER BLANK FINISH
CLUPISS - Cluster Pi S Surface	FTMW - Textured matte white	FTMW - Textured matte white	FTMW - Textured matte white
CLUPIMS - Cluster Pi M Surface	FTMB - Textured matte black CF# - Custom finish, specify RAL#	FTMB - Textured matte black CF# - Custom finish, specify RAL#	FTMB - Textured matte black CF# - Custom finish, specify RAL#
CLUPILS - Cluster Pi L Surface			

LIGHT SOURCE	OPTIC	CRI	COLOR TEMPERATURE	VOLTAGE	LU	MEN PACKAGE 1	
SW		90CRI					
SW - Static white	KVCO - Kinetic Visual Comfort Optic HLO - High-Efficiency Lambertian Optic	90CRI - 90 CRI	27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 50K - 5000K	120V - 120V 277V - 277V UNV - 120V-277V	s	KVCO 360LM - 360 lm	HLO 400LM - 400 lm
					М.	700LM - 700 lm	780LM - 780 lm
					L 1De	1200LM - 1200 lm ivered lumens at 90 CRI, 3	1350LM - 1350 lm 500к.

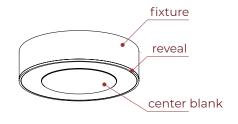
DIMMING ²		CANOPY TYPE	CANOPY FINISH Specify NA for DM	
REMOTE DRIVER ³ RD1 - 1% 0-10V RELV ^{4,5} - ELV 120V RTRI ^{4,5} - TRIAC 120V RLDE1 ^{5,6} - Lutron Hi-Lume 1% Eco	RDA ^e - DALI RELD1 - eldoLED 1% ECOdrive 0-10V RELD0 - eldoLED 0.1% SOLOdrive 0-10V RPEQ0 ^e - Lutron Hi-Lume Premier 0.1% EcoSystem	FLR ⁷ - Flat round canopy, 4" octagonal junction box DM - Direct mount ⁷ Only available for Cluster Pi S.	FTMW - Textured matte white FTMB - Textured matte black CF# - Custom finish, specify RAL‡ NA - Not applicable	
² PoE (Power-over-Ethernet) compatible. Consu ³ A remote driver box is provided, see page 4 for ⁴ Available with 120V only. ⁶ Not available with Cluster Pi S. ⁶ On-site commissioning is required.				



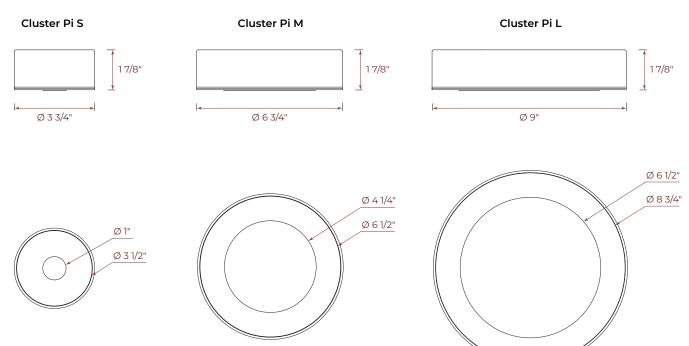




Overview



Dimensions

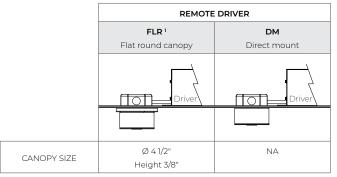






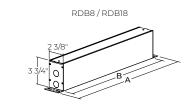
Mounting

CANOPY TYPE



¹Only available for Cluster Pi S.

REMOTE DRIVER BOX



	RDB8	RDB18
А	10"	20"
в	8"	18"
DRIVER	RD1 - 1% 0-10V RELV - ELV 120V RTRI - TRIAC 120V RPEQ0 - 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

Photometrics

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

KVCO		LM	w	LM/W
	S	360	4.9	73
H	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			



1350	16.7	81	

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Technical Specifications

OPTICS

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%. **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 Cover: Cold rolled steel Lens: Acrylic Canopy: Flat and direct Finish: Textured matte white and matte black. Custom colors also available (provide RAL #).

WEIGHT

Cluster Pi S FLR: 1.4 lbs - 0.6 kg Cluster Pi S DM: 1.1 lbs - 0.5 kg Cluster Pi M DM: 2.2 lbs - 1 kg Cluster Pi L DM: 3.4 lbs - 1.5 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.





