CLUSTER PI MRO OPTIC





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Cluster Pi Family (Refer to other spec sheets)





MRO Recessed Add-ons

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MRO



Surface	
	C
MRO	KVCO / HLC

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Project:

Type:



Order Guide

LUMINAIRE ID	FIXTURE FINISH	LOUVER	LOUVER FINISH	REVEAL FINISH	CENTER BLANK FINISH
		SQR			
CLUPISP - Cluster Pi S Pendant	FTMW - Textured matte white	SQR - Square	MF01 - Matte white	FTMW - Textured matte white	FTMW - Textured matte white
CLUPIMP - Cluster Pi M Pendant	FTMB - Textured matte black CF# - Custom finish, specify RAL#		MF04 - Matte black AM07 - Matte silver		FTMB - Textured matte black CF# - Custom finish, specify
CLUPILP - Cluster Pi L Pendant					RAL#

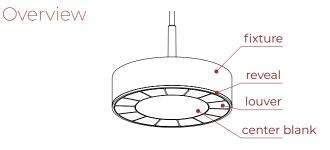
LIGHT SOURCE	OPTIC	BEAM	CRI	COLOR TEMPERATURE	VOLTAGE	LUI	
sw	MRO		90CRI				
SW - Static white	MRO - Miniature Reflector	NFL - Narrow flood	90CRI - 90 CRI	27K - 2700K	120V - 120V	s	890LM - 890 lm
	Optic	FLD - Flood WFL - Wide flood		30K - 3000K 35K - 3500K	277V - 277V UNV - 120V-277V	м	2100LM - 2100 lm
				40K - 4000K 50K - 5000K		L	2750LM - 2750 lm
						1 Del	ivered lumens at 90 CRI, 3500K.

DIMMING ²		CANOPY TYPE	CANOPY FINISH	SUSPENSION	
CANOPY DRIVER ³	REMOTE DRIVER 7	FLR ⁹ - Flat round canopy, 4"	FTMW - Textured	POWER CORD "	STEM 14
³ Only available with DR cs ⁴ Not available with Cluste ⁵ Available with 120V only. ⁶ Not available with Cluste	rr Pi M. rr Pi S. ovided, see page 4 for details.	octagonal junction box CDR ⁹ - Conduit feed, round canopy DR ¹⁰ - Deep round canopy, driver in canopy ⁹ Available with remote driver only. ¹⁰ Available with canopy driver only.	matte white FTMB - Textured matte black CF# - Custom finish, specify RAL#	BPC##IN - Black PVC WPC##IN - White PVC CF#F##IN ^{12,13} - Custom color fabric, consult factory ¹¹ Min 18" - max 72", specify length (##) in inches. ¹² Not available with D1 dimming option. ¹³ Specify fabric color (#).	BKS##IN - Textured black stem WHS##IN - Textured white stem BKSS##IN ¹⁵ - Textured black swive stem WHSS##IN ¹⁶ - Textured white swivel stem CF#SS##IN ¹⁶ - Custom finish stem CF#SS##IN ¹⁶ - Custom finish swivel stem ¹⁶ Min 10" - max 72", specify length (##) in inches. ¹⁶ Not available with DR canopy. ¹⁶ Specify RAL#.

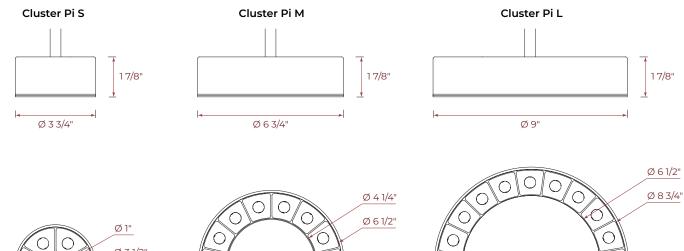


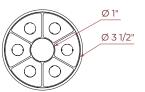


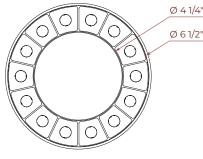


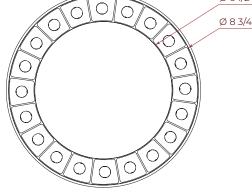


Dimensions











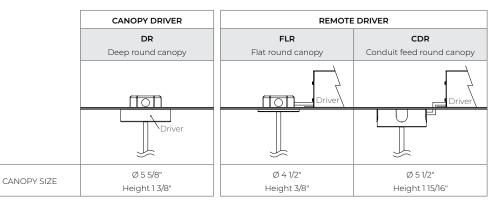




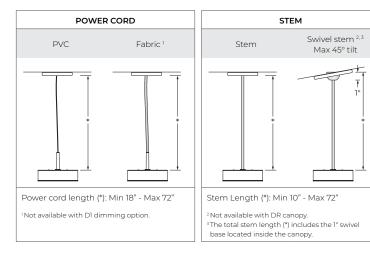


Mounting

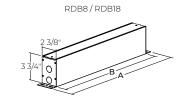
CANOPY TYPE



SUSPENSION



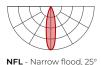
REMOTE DRIVER BOX



	RDB8	RDB18
А	10"	20"
в	8"	18"
DRIVER	RDI - 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.





WFL - Wide flo

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\mathcal{A}		LM
/ 7		
\searrow	S	890
od, 55°	м	2100
	L	2750

	LM	W	LM/W
,	890	15	59
1	2100	30.6	70
	2750	44.6	62

MULTIPLIER TABLE

Use the table to get results for different color temperatures.

Multiplier -	CCT/CDI
Multiplier -	CCI/CRI

i i difei piroi	001/011	
сст	WATTS 90 CRI	LPW 90 CRI
2700K	1.15	0.87
3000K	1.08	0.93
3500K	1	1
4000K	0.97	1.03
5000K	0.93	1.08







Technical Specifications

OPTIC

Miniature Reflector Optic (MRO)

The Miniature Reflector Optic (MRO) is composed of molded Total Internal Reflection (TIR) elements placed over the LED emitter, along with precise parabolic reflectors that further shield the light source. The resulting beam is soft with a feathered edge.

LIGHT SOURCE

Compact COB (Chip-On-Board) LED module, 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%.

Canopy driver: 0-10V, ELV, TRIAC

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
MRO lens: Polycarbonate
Power cord: Black and white PVC, custom color fabric. 18" to 72" standard length.
Stem: Ø 1/2" rigid stem and swivel stem 10" to 72" standard length
Canopy: Flat, conduit feed, and deep
Finish: Textured matte white and matte black. Custom colors also available (provide RAL #).

WEIGHT

Cluster Pi S: 1.3 lbs - 0.6 kg Cluster Pi M: 2.8 lbs - 1.3 kg Cluster Pi L: 4.4 lbs - 2 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.



