



Project Name _____

Date _____ Type _____

Catalog Number _____

PCL Series

2x2 & 2x4 Volumetric Center Lens

The Lumination™ PCL series is an LED contractor grade volumetric, center lens luminaire with selectable lumens and CCT. Suitable for indoor general lighting in both new construction and retrofit solutions.

Construction

Housing:	Die formed code-gauge steel
Lens:	Frosted Polypropylene
Paint:	Post painted matte white finish
Weight	<12 lbs

Optical System

Lumens:	2x2 3250/3750/5000 lumens (Field Selectable) 2x4 3750/5000/6000 lumens (Field Selectable)
Wattage:	2x2 23/27/38 (Field Selectable) 2x4 25/35/45 (Field Selectable)
Efficacy:	2x2 Up to 149 LPW 2x4 Up to 157 LPW
CCT:	3500/4000/5000K (Field Selectable)
CRI:	80+

Electrical

Input Voltage:	120–347 V
Input Frequency:	50/60Hz
Power Factor (PF)*:	>0.9%*
Total Harmonic Distortion (THD)*:	<20%*

* PF and THD may vary with options

Controls

Dimming:	Standard 0–10V, 1% Dim to Off
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Ambient Temperature

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	–25°C to 40°C (–13°F to 104°F)
STORAGE TEMPERATURE	–40°C to 70°C (–40°F to 158°F)

Lumen Maintenance

LXX(10K) @ Hours 60,000 HR
L80

Additional Features

Mounting:

- **Typical Mounting:** Fits standard T-Bar grid (drop ceilings)
- **Wiring Access:** ½" trade-size KOs
- **T-grid Clips:** T-grid clips attached
- **Surface Mounting:** Surface mount kit available
- **Cable Mounting:** Cable Mount Kit available, Surface Mount Kit required

Design Life & Warranty

- Insulation Contact: Type IC Rated
- Damp Location rated
- CSA Certified
- Please refer to the DLC QPL website for the latest and most complete information: <http://www.designlights.org/QPL>
- Current's Limited 5-year Warranty: Please see website

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Ordering Information

PCL	---	A	1	FS	DF	WHITE	---
FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	SELECTABLE	DRIVER	FINISH	OPTIONS
PCL = Volumetric Center Lens	22 = 2' x 2' 24 = 2' x 4'	A = 1 st Generation	1 = 120-347V	FS = Field Selectable Lumen & CCT	DF = 0-10V Dim to Off	WHITE = White	(blank) = None EL ¹ = Emergency Battery

1. EL option not available in 347V

Accessories Ordering Guide (Order Separately)

ACCESSORIES (ORDER SEPARATELY)	PART #	UPC	NOTES & RESTRICTIONS
Flange Kits			
☐ FK22	FK22	078531000752	2x2 Single Flange Kit (Shipped Separately)
☐ FK24	FK24	078531038991	2x4 Single Flange Kit (Shipped Separately)
☐ PSMK-22	93302544	662055127912	2x2 Shallow Surface Mount Kit, 63mm
☐ PSMK-24	93302545	662055127929	2x4 Shallow Surface Mount Kit, 63mm
☐ DSMK22	93313898	840141433219	2x2 Deep Surface Mount Kit, 110mm, for use with EL option
☐ DSMK24	93313899	840141433226	2x4 Deep Surface Mount Kit, 110mm, for use with EL option
☐ CFPCM36YSC5F-KIT ²	93093113	078531133023	36" Cable Mount Kit for 1' or 2' wide Cable Mount fixtures, 5-wire

2. Cable Mount not available with 347V. Surface Mount Kit (PSMK_ or DSMK_) required

Stocked Options

CATALOG NO.	UPC	DESCRIPTION	SETTING	LUMENS			WATTS	LPW		
				3500K	4000K	5000K		3500K	4000K	5000K
PCL22A1FSDFWHITE	840141417325	2x2 Volumetric Center Lens Troffer, 3250/3750/5000 Selectable Lumens, 3500/4000/5000K Selectable CCT; 0-10V Dim-to-Off Driver; 120-347V	LOW	3279	3423	3339	23	143	149	145
			MED	3786	3980	3863	27	140	147	143
			HIGH	5009	5338	5083	38	132	140	134
PCL24A1FSDFWHITE	840141417332	2x4 Volumetric Center Lens Troffer, 3750/5000/6000 Selectable Lumens, 3500/4000/5000K Selectable CCT; 0-10V Dim-to-Off Driver; 120-347V	LOW	3820	3923	3864	25	153	157	155
			MED	5053	5228	5097	35	144	149	146
			HIGH	6244	6497	6276	45	139	144	139

Default setting for CCT is 3500K and High lumen level (bold)

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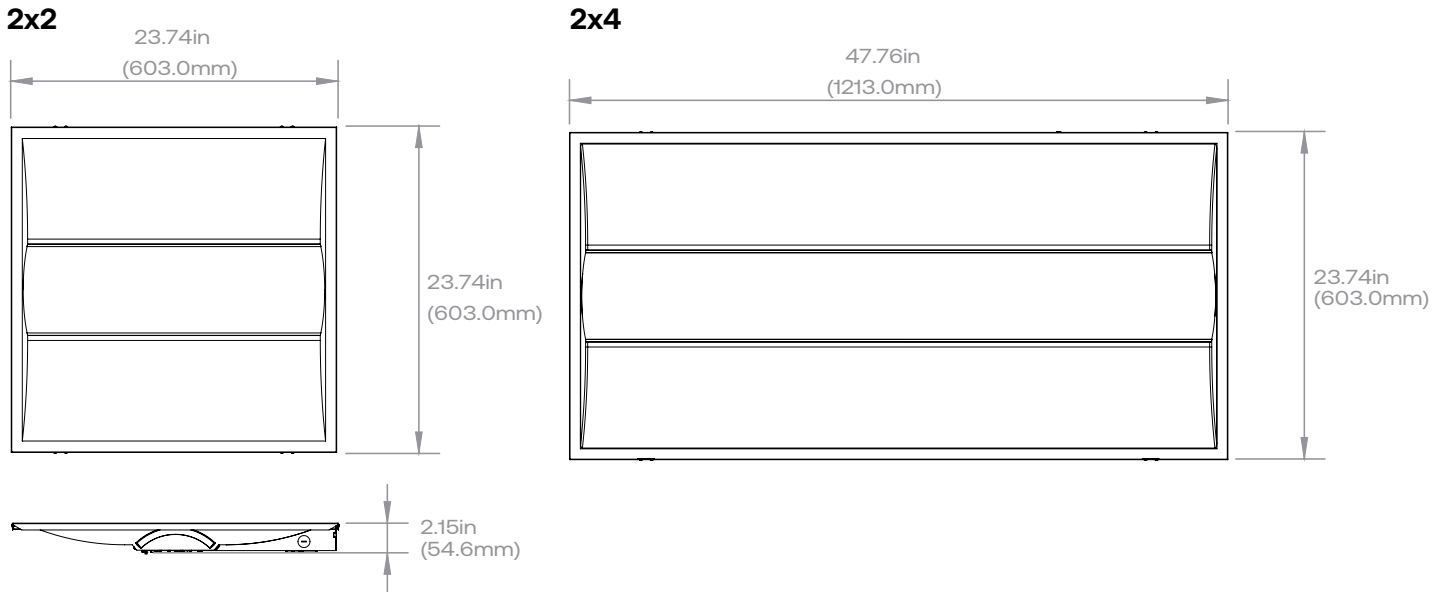
Catalog Number _____

Dimensions and Weights

	TYPICAL DIMENSIONS AND WEIGHTS	
	PCL22 (2x2)	PCL24 (2x4)
Length	23.74" / 603 mm	47.76" / 1213 mm
Width	23.74" / 603 mm	23.74" / 603 mm
Height	2.15" / 54.6 mm	2.15" / 54.6 mm
Weight*	6.4lbs/2.9kg	11.7lbs/5.3kg

*Base configurations; weight varies by option

Product Dimensions



0-10V Dimmer Compatibility

Fixture operates at 120-277V. 0-10V dimmable driver, down to 1%.

1V minimum low-end trim recommended when paired with a 0-10V dimmer.

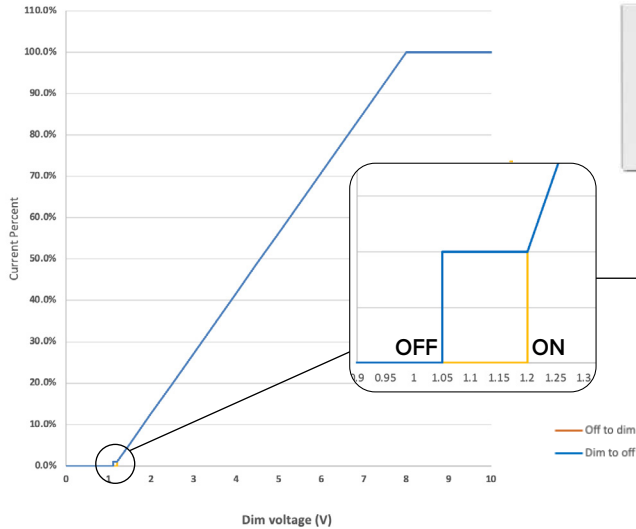
List of suitable dimmers based on laboratory testing. Compatibility must be verified by customer before install. Columbia cannot guarantee dimmer compatibility

- NX Lighting Controls RSD0108-UNV-XX
- LUTRON DDTV*
- Synergy® ISD BC120/277
- Lutron® Diva DVST*
- LUTRON NTSTV-DV
- Enerlites® 51300L*

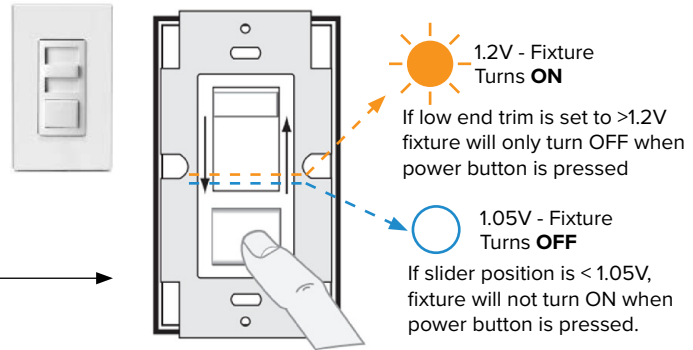
* Dimmers require adjusting knobs to change Low End Trim Voltage below 1.05V

ADDITIONAL DIMMING INFORMATION: DIMMING CURVE

0-10V DIMMING CURVE



WALLBOX DIMMER EXAMPLE



DIM TO DARK FUNCTION

Dimmer Low End Trim Settings	ON/OFF Operation		Dimmer Control Range
> 1.2V	ON/OFF Toggle power control only		Full output to Low End Trim Setting
1.05V to 1.2V	ON Adjust dimmer control above 1.2V + Set power control to ON	OFF Set power control to OFF	Full output to Low End Trim Setting
< 1.05V	ON Adjust dimmer control above 1.2V + Set power control to ON	OFF Set power control to OFF or Adjust dimmer below 1.05V level	Full output to OFF