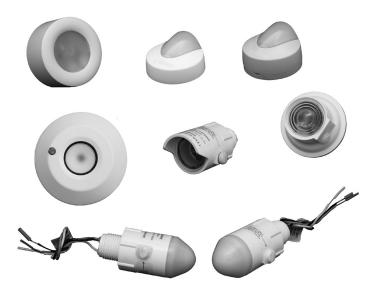


Photocells



Leviton's photocell sensors precisely monitor either task or ambient light levels. As part of a Leviton lighting and energy solution, photocells work with other components in the system to automatically adjust light levels to a user-defined level. Photocells are most suitable for installation in rooms with windows and open spaces receiving substantial ambient light.

Photocells must be hardwired to a compatible Leviton lighting control system. The photocell measures ambient light in a specific area and sends this data to a dimmer or relay that, in turn, adjusts fixtures to a constant lighting level as measured in that specific area. Daylight harvesting is achieved as lights in a room (with windows or significant, artificial ambient light) automatically brighten or dim depending on how much light the photocell detects.

BENEFITS

- Constant lighting at the optimal level for greater visual comfort and acuity, which contributes to improved productivity
- Provides convenient, automatic hands-free daylight harvesting when integrated with Leviton lighting control products
- Lowers electric bills by reducing usage of lighting where ambient natural light is also present
- Lumen maintenance opportunity compatible

DAYLIGHT HARVESTING

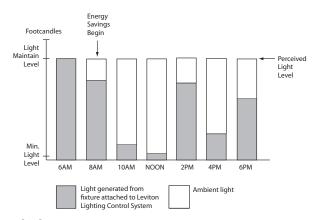
With daylight harvesting, ambient (often natural) light supplements in-room, artificial light in order to keep a constant lighting level while simultaneously saving energy. This ensures unnecessary overhead lighting remains dimmed or OFF. This constant level is programmed into a compatible control device. Once hardwired to the photocell, the dimmer or relay receives the photocell's real-time light measurement and maintains a steady level within the photocell's area of detection.

RULES OF OPERATION

Measured light level = Light Maintain Level Action: Output to lights remains constant

Measured light level < Light Maintain Level Action: Lights are brightened

Measured light level > Light Maintain Level Action: Lights are dimmed

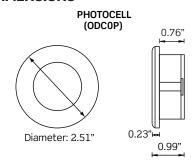


PRODUCT DATA

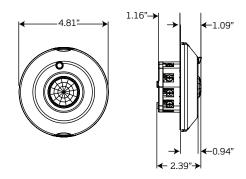
FEATURES

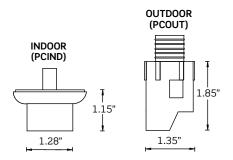
- Indoor photocells designed with a flat Fresnel lens looks downward in a 60° cone of reference to measure actual light on the work surface and reduce the influence of stray light striking the photocell from nearby windows or incidental side lighting
- Outdoor photocells are IP54 rated to guarantee ultimate protection from dirt, dust, oil and other non-corrosive material
- Measures light from any source in the visible spectrum within a 60° cone or 180° angle of response depending on the model
- ODCOP-00W photocell with 60° clear lens operates between 1-1,600FC. ODCOP should be surface mounted or direct to ceiling box
- ODCOP-SOW switching photocell with 60° clear lens operates between 1-1,600FC. ODCOP should be surface mounted or direct to ceiling box
- ODCOP-DOW dimming photocell with 60° clear lens operates between 1-1,600FC. ODCOP should be surface mounted or direct to ceiling box
- PCCxD-00W, PCCxS-00W, PCCSD-00W line voltage photocells with 60° clear lens for applications where zone control switching, dimming, and demand response are required. Operates between 1-1,600FC. PCC photocells should be mounted to the ceiling in standard 4"x4" square or octagon electrical boxes
- PCIND-000 indoor photocell with 60° clear Fresnel lens is default setting = 75-800FC sensing range; can be field adjusted to 800FC max sensing range. PCIND should be mounted to the ceiling, facing down
- **PCIND-0SV side view photocell** for applications where ceiling mounting is required yet the view should be of the lighting entering the space through a window; or, for installation to the wall of skylights where the view should be up into the skylight. Default setting = 0-30FC sensing range; can be field configured with a jumper for a 3FC, 30FC, 300FC, or 600FC max sensing range
- PCOUT-000 outdoor photocell is enclosed in a weatherproof housing with a visor for shading and lens protection. Default setting = 50-750FC sensing range
- **PCOUT-OSV side view photocell** for applications where wall mounting is required yet the view should be of the lighting entering the space through a top/side and/or face of the photocell. Reference placement diagrams. Default setting = 0-30FC sensing range; can be field configured with a jumper for a 3FC, 30FC, 300FC, or 600FC max sensing range
- PCATR-000 atrium photocell with opaque dome lens filters 33% of light level in upper atrium. Default setting = 215-2,690FC sensing range; can be field adjusted to 2,690FC max sensing range
- PCSKY-000 skylight photocell with dark dome lens filters 90% of light level in skylight. Default setting = 1,076-8,072FC sensing range; can be field adjusted to 8,072FC max sensing range

DIMENSIONS

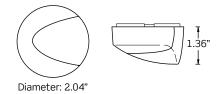


PHOTOCELL (PCCxD, PCCxS, PCCSD)

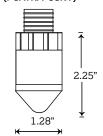




SIDE VIEW PHOTOCELL (PCIND-0SV/PCOUT-0SV)

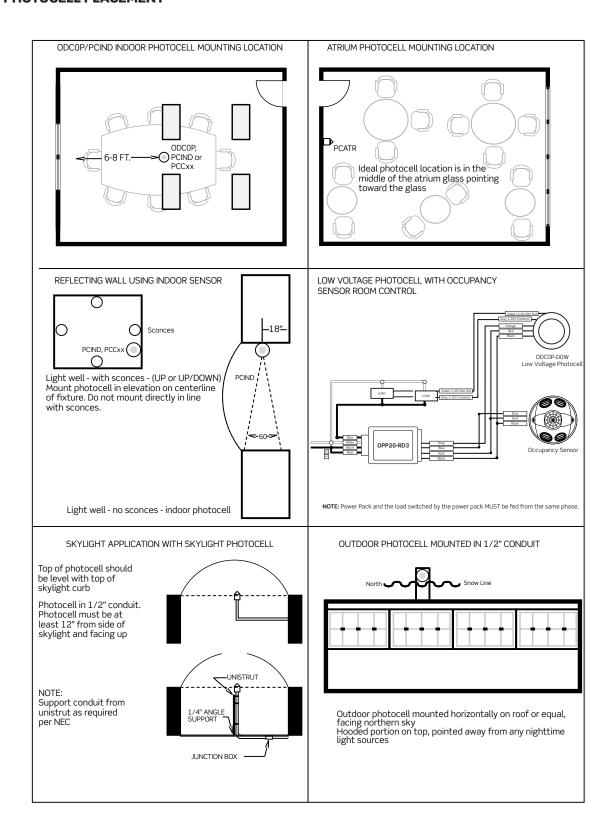


ATRIUM/SKYLIGHT (PCATR/PCSKY)





PHOTOCELL PLACEMENT



PRODUCT DATA

INSTALLATION

- Low Voltage Class 2 Wiring Connect directly to dimmer or relay panel

SPECIFICATIONS

SPECIFICATIO	143						
	ODCOP- 00W	ODCOP- SOW	ODCOP- DOW	PCCxD- 00W	PCC 00		
Input Voltage	24VDC	24VDC 12-24VD0		120-277VAC			
Input Current		10mA			30mA		
IP Rating		32			30		
Default Range	1-1,600 FC (10-16,000 LUX)						
Output Voltage	12-24VDC		Switched: 12-24VDC/ Dimmed: 1-10V Sinking	N/A			
Operating Temperature Range	32-131°F (0 -55°C)			32-104°F (0-40°C)			
Storage Temperature Range	14-185°F (-10-85°C)			14-160°F (-26-71°C)			
Warranty	Limited 5-Year Warranty						
	PCIND- PCI 000 05	ND- PCOU		PCTAR 000	.	PCSKY- 000	
Input Voltage	24VDC						
Input Current	10mA						
IP Rating	20	54	54	65			
Default Range	75-800 FC (807- 8,611 LUX)		0-30 FC (0-322 LUX)	215-2,690 (2,314-2,895		1,076-8,072 FC (11,581- 8,6886 LUX)	
Output Voltage	10VDC full output		0-10VDC	10VDC full output		ull output	
Operating Temperature Range	12-140°F (-11-60°C)		-40-122°F (-40-50°C)	12-140°F (-11-60°C)			
Storage Temperature Range	14-185°F (-10-85°C)						
Warranty	Limited 2-Year Warranty						

SELECTION

SEEECTION					
PHOTOCELL	LENS	MOUNTING	ORIENTATION	HEIGHT	DIAMETER
ODCOP-00W					
ODCOP-SOW				0.99" (25.14mm)	2.51" (63.75mm)
ODCOP-DOW	Clear	Ceiling	Down		
PCCxD-00W	Clear			1.09" (27.91mm)	1.09" (27.91mm)
PCCxS-00W					
PCCSD-00W					
PCIND-000	Fresnel			2.00" (50.8mm)	1.00" (25.4mm)
PCIND-0SV	Diffuse	Ceiling/Wall	Up/Down	1.36" (34.54mm)	2.04" (51.81mm)
PCOUT-000	Clear Hood	1/2" IPT	Horizontal	1.85" (46.99mm)	1.28" (32.51mm)
PCOUT-0SV	Diffuse	Ceiling/Wall	Up/Down	1.36" (34.54mm)	2.04" (51.81mm)
PCATR-000	Domo/Frost	1/2" IPT	Horizontal	2.25" (E7.15mm)	1.28" (32.51mm)
PCSKY-000	Dome/Frost		Up	2.25" (57.15mm)	



ADJUSTABLE CORRESPONDING FC RANGES

SENSOR	MAXIMUM	
ODCOP-00W		
ODCOP-SOW		
ODCOP-DOW	1 1 600 FC	
PCCxD-00W	1-1,600 FC	
PCCxS-00W		
PCCSD-00W		
PCIND-000	75-800 FC	
PCIND-0SV	3, 30, 300 or 600 FC	
PCOUT-000	50-750 FC	
PCOUT-0SV	3, 30, 300 or 600 FC	
PCATR-000	215-2,690 FC	
PCSKY-000	1,076-8,072 FC	

ORDERING INFORMATION

CAT. NO.	DESCRIPTION	COLOR	
ODCOP-00W	Photocell		
ODCOP-SOW	Switching Photocell		
ODCOP-DOW	Dimming Photocell		
PCCxD-00W	Line Voltage Dimming Photocell		
PCCxS-00W	Line Voltage Switching Photocell		
PCCSD-00W	Line Voltage Dimming/Switching Photocell	White	
PCIND-000	Indoor Photocell		
PCIND-0SV	Indoor Side View Photocell		
PCOUT-000	Outdoor Photocell		
PCOUT-0SV	Outdoor Side View Photocell		
PCATR-000	Atrium Photocell		
PCSKY-000	Skylight Photocell		



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