

Champ Pro PVM LED luminaires

Ideal for general high bay/low bay illumination

UL/cUL Listed
NEMA 4X; IP66

2L

The Champ Pro PVM LED family:

Champ® Pro PVM LED luminaires are designed to provide full-spectrum, crisp, white light with custom IES Type I, III and V distribution. Nine versions of the PVM LED are available, providing ideal solutions for a wide range of applications.

Model	Typical lumens (Type V) ^A	Watts	Lumens per watt	Equivalent HID luminaire	Typical energy savings / lifetime
PVM3L	3,531	29	122	70W-100W	Up to 77%
PVM5L	5,256	41	129	100W-150W	Up to 67%
PVM7L	7,120	54	131	150W-175W	Up to 67%
PVM9L	9,134	74	124	250W-320W	Up to 74%
PVM11L	11,034	89	123	320W-400W	Up to 74%
PVM13L	13,226	130	102	400W	Up to 68%
PVM17L	18,793	168	112	400W-600W	Up to 72%
PVM21L	22,110	196	113	600W-750W	Up to 74%
PVM25L	26,531	232	114	750W-1000W	Up to 77%

Applications:

- Ordinary non-hazardous locations with mounting heights up to 60 feet
- Heavy industrial, mine site processing areas, platforms, loading docks, tunnels, indoor/outdoor spotlighting, outdoor wall and stanchion mounted general area lighting, and areas requiring frequent on-and-off of lights
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Type 4X, marine, wet locations and hose down environments

Features:

- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation/no warm-up required
- Option for redundancy in drivers with multiple series circuits connected to each driver to avoid complete loss of illumination
- Easy installation – compact modular fixture attaches onto existing Champ mounting module
- Energy-efficient technology – up to 77% energy savings over HID fixtures
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient: -40°C to 65°C (PVM3L-PVM11L models); -40°C to 55°C (PVM13L-PVM25L models)
- Full cut-off with no wasted light above the fixture
- 5 year fixture warranty

Certifications and compliances:

- DesignLights Consortium® Qualified (some models are not DLC qualified)^B

NEC/CEC:

- Wet locations, NEMA 4X, IP66

UL standards:

- UL1598 – Luminaires; UL1598A – Marine

CSA standard:

- cUL Listed to CSA standard CSA C22.2 No. 250

IEC standard:

- CE

Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free epoxy powder coat
- Lens – heat- and impact-resistant glass
- Gaskets – silicone
- External hardware – stainless steel
- Factory sealed, no external seals required

Photometrics:

- Complete photometrics can be found at www.crouse-hinds.com/photometrics



LED system:

- High intensity discrete power emitters
- Cool white (5000K, 70 CRI) (standard); warm white (3000K, 80 CRI) or neutral white (4000K, 70 CRI) (optional)
- Custom Type I, III and V optics available
- Optics clocking in field to align Type I and Type III light patterns to illumination path for PVM13L-PVM25L

Drivers:

Option	PVM3L-PVM25L (0-10V dimming)
/UNV1	120-277 VAC, 50/60 Hz; 108-250 VDC, 50/60 Hz
/UNV34	347-480 VAC, 50/60 Hz

^A Tolerance +/- 10%.

^B Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

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Custom optics:

Three optical options to maximize light distribution and intensity:



TYPE I

Long and rectangular for hallways, walkways, loading docks, catwalks.

Ideal for:

- Mining conveyor belts
- Aisleways and hallways
- Catwalks and walkways
- Ramps and loading docks
- Tunnels with overhead mounts



TYPE III

Wall mount light distribution, minimizing spillover on the wall.

Ideal for:

- Narrow crosswalks or passages with wall mounted fixtures
- Tunnels with wall mount
- Wall or stanchion mount requiring 180° forward throw beam patterns



TYPE V

Regular circular distribution pattern for high/low bay indoor and outdoor ceiling or pendant mount lighting.

Ideal for:

- Pendant, ceiling or stanchion mount overhead building mounts
- Processing mills, industrial plants, large buildings, warehouses, etc.

Colored LED options:

- Available in green and amber[Ⓢ]
- Reduction in light pollution for night space observation and sky glow due to isolating blue wavelength in red and amber colors
- Wildlife-friendly
- Improves visibility for telescopes in observatories during night sky space exploration

Electrical ratings:

	PVM3L	PVM5L	PVM7L	PVM9L	PVM11L	PVM13L	PVM17L	PVM21L	PVM25L
Voltage range, UNV1 (VAC 50/60 Hz)	120-277	120-277	120-277	120-277	120-277	120-277	120-277	120-277	120-277
Voltage range, UNV1 (VDC 50/60 Hz)	108-250	108-250	108-250	108-250	108-250	108-250	108-250	108-250	108-250
Input power (watts)	29	41	54	74	89	130	168	196	232
Input amps at 120-277 VAC	0.24 - 0.11	0.34 - 0.16	0.45 - 0.23	0.61 - 0.31	0.74 - 0.41	1.08 - 0.48	1.40 - 0.62	1.64 - 0.73	1.94 - 0.87
Voltage range, UNV34 (VAC 50/60 Hz)	347-480	347-480	347-480	347-480	347-480	347-480	347-480	347-480	347-480
Input power (watts)	27	44	58	73	91	127	175	208	263
Input amps at 347-480 VAC	0.06 - 0.08	0.09 - 0.12	0.12 - 0.16	0.15 - 0.21	0.19 - 0.26	0.21 - 0.26	0.49 - 0.37	0.58 - 0.43	0.73 - 0.55
Power factor	>0.90	>0.90	>0.90	>0.90	>0.90	>0.90	>0.90	>0.90	>0.90
Total harmonic distortion (THD)	<20%	<20%	<20%	<20%	<20%	<20%	<20%	<20%	<20%

Occupancy sensor (ordered separately):

Description

- ¾" NPT entry, 100-277 VAC **ORDC/UNV1**
- Step down transformer for 347-480 VAC applications.... **347/480 K1**

Cat.



ORDC/UNV1



REMOTE CONTROL 1

Occupancy sensor accessories (ordered separately):

Description

- TECK armored cable (5 ft.) with TECK glands (¾")..... **CABLE KIT ORD 1**
- Type P non-armored cable (5 ft.) with ADE-1F glands (¾") **CABLE KIT ORD 2**
- Metal-clad armored cable (5 ft.) with TMC glands (¾") **CABLE KIT ORD 3**
- SO cable (5 ft.) with ADE-1F glands (¾")..... **CABLE KIT ORD 4**
- Wall mount kit **ORDC WKIT**
- Pendant mount kit **ORDC PKIT**
- Stanchion mount kit..... **ORDC SKIT**
- Remote control for programming sensor **REMOTE CONTROL 1**

Cat.

[Ⓢ] Custom optics not available with colored LEDs. One model per color; see catalog numbering system on following page.

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Ordering information:

Part number example

PVM17LW2AR1G/UNV1 S890

Lamp / function		Color temperature		Mounting style		Options		Voltage		Guard	
3L	3,531 lumen LED	BLANK	Cool (5000K)	BLANK	No cover	BLANK	No guard	/UNV1	120-277 VAC, 50/60 Hz; 108-250 VDC, 50/60 Hz	BLANK	No guard
5L	5,256 lumen LED	N	Neutral (4000K)	J [ⓔ]	1-½" stanchion, 25° angled	R1	Type I optic (all mounts minus ceiling for 3L-11L, available with mounts for 13L-25L models)	/UNV34	347-480 VAC, 50/60 Hz	G	P3001 wire guard (3L-11L) P3002 wire guard (13L-25L)
7L	7,120 lumen LED	W	Warm (3000K)	P	1-½" stanchion, straight	R1A [ⓔ]	Type I optic (ceiling with conduit 45° counterclockwise or 135° clockwise from hinge)				
9L	9,134 lumen LED			2A	¾" pendant	R1B [ⓔ]	Type I optic (ceiling with conduit 45° clockwise or 135° counterclockwise from hinge)				
11L	11,034 lumen LED			3A	1" pendant	R3	Type III optic (all mounts minus ceiling)				
13L	13,226 lumen LED			20A	20mm pendant	R3AP [ⓔ]	Type III optic (select when using Appleton top hat adapter with Champ fixture)				
17L	18,793 lumen LED			25A	25mm pendant	R3A1 [ⓔ]	Type III optic (ceiling with conduit 45° counterclockwise from top hat hinge)				
21L	22,110 lumen LED			2B	¾" cone pendant	R3A2 [ⓔ]	Type III optic (ceiling with conduit 135° clockwise from top hat hinge)				
25L	26,531 lumen LED			3B	1" cone pendant	R3B1 [ⓔ]	Type III optic (ceiling with conduit 45° clockwise from top hat hinge)				
GL [Ⓞ]	Green (4,300 lumen LED)					R3B2 [ⓔ]	Type III optic (ceiling with conduit 135° counterclockwise from top hat hinge)				
AL [Ⓞ]	Amber (5,000 lumen LED)										

Consult factory for additional color temperature options.

Accessories (ordered separately):

Description	Cat. #
• Photocell, 120V, 50/60 Hz	D2S20
• Photocell, 208-277V	D2S208 277
• Trunnion mount kit with pin	VMVL S812 K1 [ⓔ]
• Wire guard with captive mounting hardware	P3001
• Top hat adapter	CHMM1

For retrofitting Appleton MercMaster III top hats to Champ Pro PVM luminaires



CHMM1

[Ⓞ] Custom optics not available with colored LEDs.

[ⓔ] For PVM3L-PVM11L only.

[ⓕ] Order with ceiling mount only.

[ⓖ] Available for PVM5L and PVM7L only. Redundant driver standard on PVM9L-PVM25L models. 7L = 6,616 lumens with S892 suffix.

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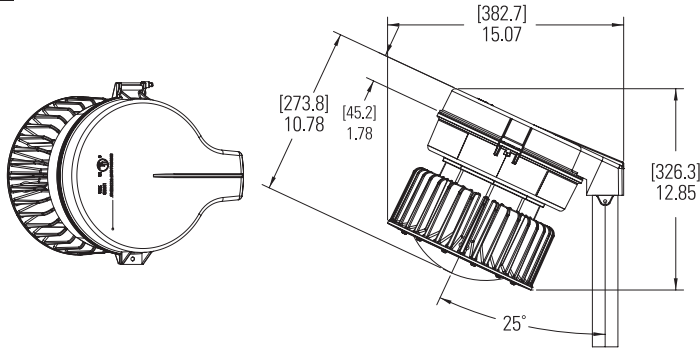
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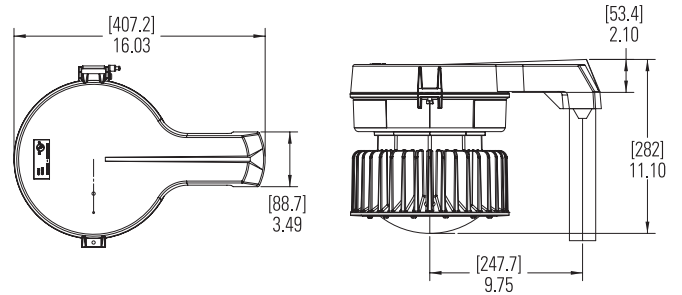
2L

Dimensions – 3L-11L:

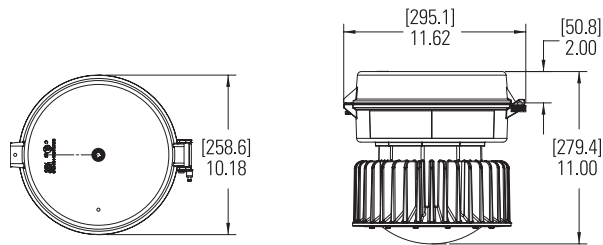
Stanchion - 25° angled



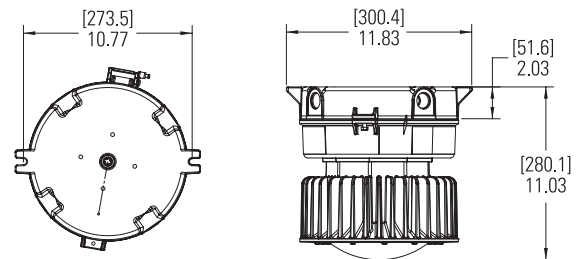
Stanchion - straight



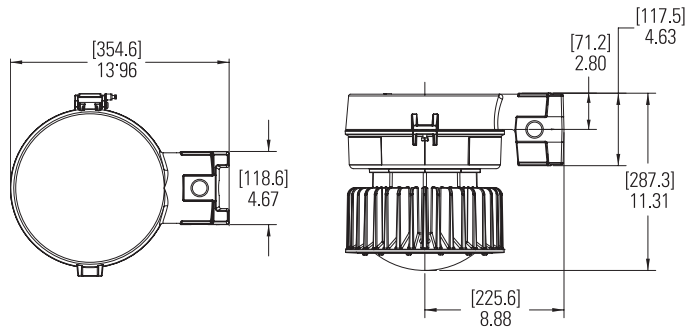
Pendant



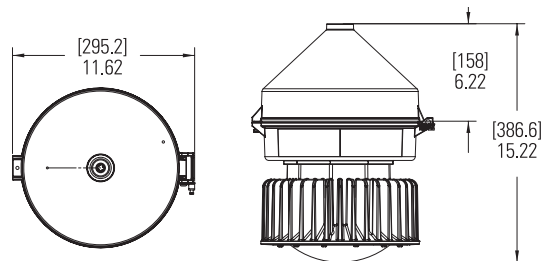
Ceiling



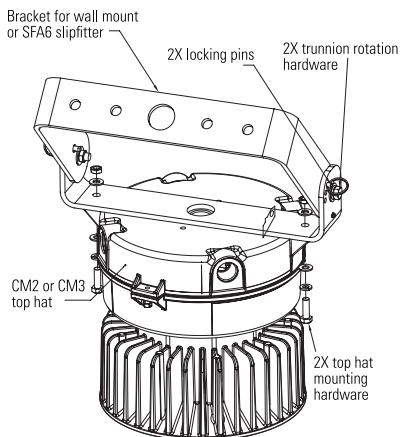
Wall



Cone pendant



Trunnion



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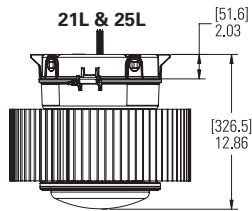
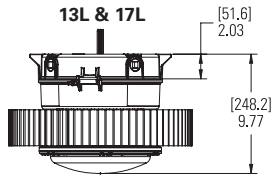
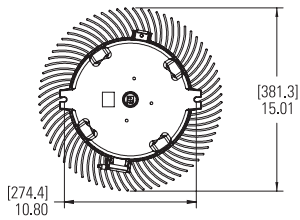
2L

2L

Dimensions – 13L-25L:

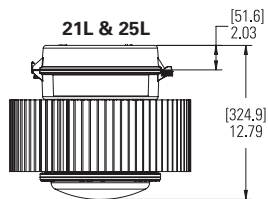
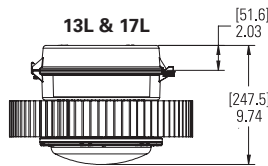
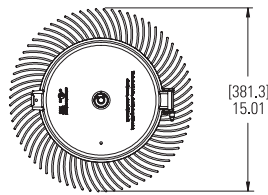
Ceiling

Top view: 13L-25L



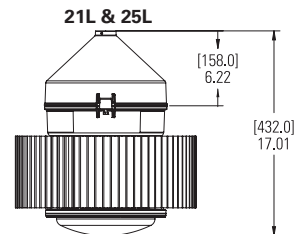
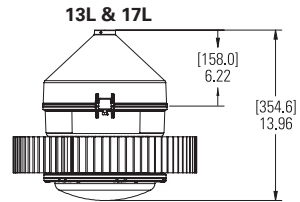
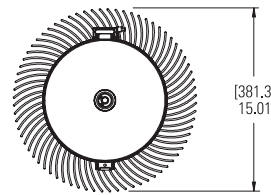
Pendant

Top view: 13L-25L



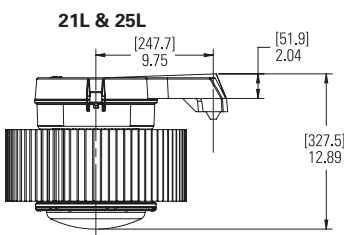
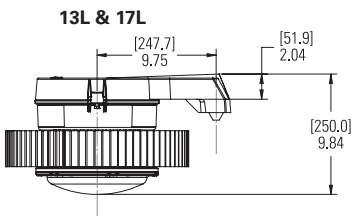
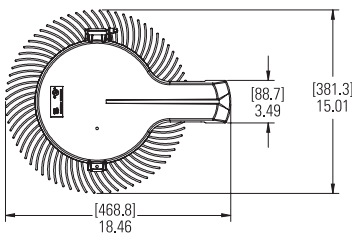
Cone pendant

Top view: 13L-25L



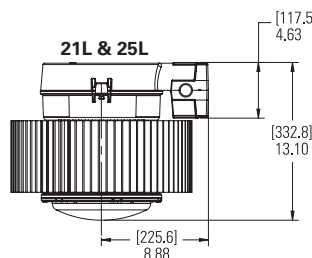
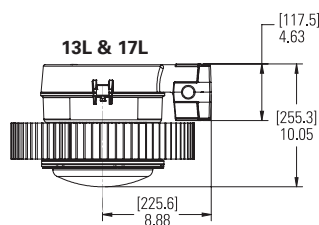
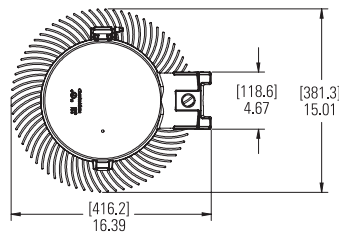
Stanchion

Top view: 13L-25L



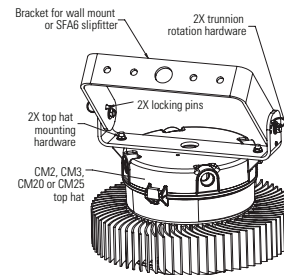
Wall

Top view: 13L-25L

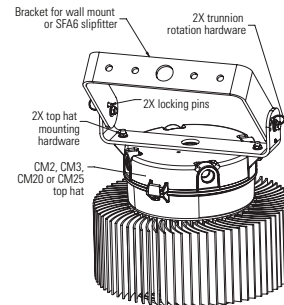


Trunnion

13L & 17L



21L & 25L



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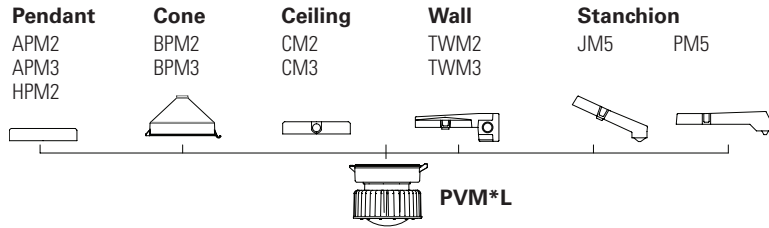
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Family tree:



Net luminaire weights:

Model	Lbs.	Kg.
PVM3L-PVM11L	20.80	9.43
PVM13L & PVM17L	36.00	16.32
PVM21L & PVM25L	44.00	19.95
Add mounting modules:		
Pendant	1.25	0.57
Cone pendant	4.00	1.81
Flexible pendant	1.50	0.68
Ceiling	2.75	1.25
Wall	4.50	2.04
Angled stanchion ^H	3.50	1.59
Straight stanchion	4.50	2.04

^H Angled stanchion for PVM3L-PVM11L models only.