



VCPG LED Parking Garage

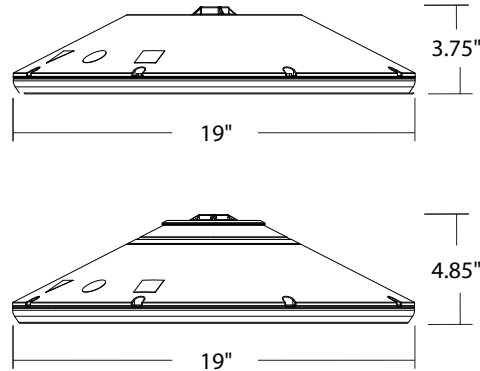


Specifications

Diameter: 19"

Height: 3.75"
(4.85" with Up-Light)

Weight 18 lbs
(max, with no options):



A+ Capable options indicated by this color background.

Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The all new VCPG LED (Visually Comfortable Parking Garage) luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

Ordering Information

EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

| VCPG LED | | | | | | | |
|----------|---------------------------------|-----------------|-------------------|-----------------------|--------------------------------------|---------|--|
| Series | LED Light Engines | Package | Color temperature | Color Rendering Index | Distribution | Voltage | Mounting |
| VCPG LED | V4 ¹ 4 Light Engines | P1 ¹ | 30K 3000 K | 70CRI | TSM Type V, medium | MVOLT | Shipped included PM Pendant mount standard (24-inch length supply leads) SRM Surface mount (24-inch length supply leads) ARM Arm mount (use RSXWBA accessory to mount to a wall) Shipped separately YK Yoke/trunnion mount ³ |
| | V8 ¹ 8 Light Engines | P2 ¹ | 35K 3500 K | 80CRI | TSR ² Type V, rectangular | 347 120 | |
| | | P3 ¹ | 40K 4000 K | | TSW Type V, wide | 480 208 | |
| | | P4 ¹ | 50K 5000 K | | TSE Type V entry | 240 277 | |
| | | P5 ¹ | | | LANE ² Drive lane | 347 480 | |
| | | P6 ¹ | | | | | |
| | | P7 ¹ | | | | | |

| Options | | Finish <i>(required)</i> | |
|---|--|--|---|
| Shipped installed <div><div>UPL1</div><div>Up-Light: 500 lumens</div></div> <div><div>UPL2</div><div>Up-Light: 700 lumens</div></div> <div><div>E8WC</div><div>Emergency battery backup, Certified in CA Title 20 MAEDBS (8W, -20°C min)^{4,5,6}</div></div> <div><div>E10WH</div><div>Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)^{4,5,6}</div></div> <div><div>HA</div><div>High ambient (50°C, only P1-P4)</div></div> <div><div>SF</div><div>Single fuse (120V, 277V, 347V)</div></div> <div><div>DF</div><div>Double fuse (208V, 240V, 480V)</div></div> <div><div>SPD10KV</div><div>10KV Surge Pack</div></div> <div><div>LDS36</div><div>36in (3ft) lead length</div></div> <div><div>LDS72</div><div>72in (6ft) lead length</div></div> <div><div>LDS108</div><div>108in (9ft) lead length</div></div> <div><div>DMG</div><div>External 0-10V leads (no controls)⁷</div></div> <div><div>TP</div><div>Tamper proof screws</div></div> <div><div>Shipped Separately</div><div><div>WG</div><div>Wire Guard</div></div><div><div>BDS</div><div>Bird Shroud</div></div><div><div>HS</div><div>House Side Shield</div></div><div><div>BSW</div><div>Bird Spikes</div></div></div> | | Standalone Sensors/Controls² <div><div>PIR</div><div>Motion/ambient sensor for 8-15' mounting heights</div></div> <div><div>PIRH</div><div>Motion/ambient sensor for 15-30' mounting heights</div></div> <div><div>PIR3FC3V</div><div>Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output</div></div> <div><div>PIRH3FC3V</div><div>Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output</div></div> Networked Sensors/Controls² <div><div>NLTAIR2 PIR</div><div>nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights</div></div> <div><div>NLTAIR2 PIRH</div><div>nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights</div></div> <div><div>NLTAIR2 PIR924</div><div>nLIGHT AIR Wireless enabled, UL924 Listed motion/ambient sensor for 8-15' mounting heights⁸</div></div> <div><div>NLTAIR2 PIRH924</div><div>nLIGHT AIR Wireless enabled, UL924 Listed motion/ambient sensor for 15'-30' mounting heights⁸</div></div> | <div><div>DWHXD</div><div>White</div></div> <div><div>DNAXD</div><div>Natural aluminum</div></div> <div><div>DDBXD</div><div>Dark bronze</div></div> <div><div>DBLXD</div><div>Black</div></div> <div><div>Note: Product will be shipped in job packs of 18pcs per box. The remaining units will be shipped in unit packs.</div></div> |

Ordering Information Cont.

Accessories

Ordered and shipped separately.

| | | | |
|---------------------|---|-----------------|--|
| VCPGBDS DWHXD U | Bird shroud for PM (specify finish) | VCPGWG U | Wire guard |
| VCPGBDS YK DWHXD U | Bird shroud for YK (specify finish) | SLVSQ | Quick mount pendant swivel kit, square |
| VCPGUBDS DWHXD U | Bird shroud for PM with Up-Light (specify finish) | SLVRD | Quick mount pendant swivel kit, round |
| VCPGUBDS YK DWHXD U | Bird shroud for YK with Up-Light (specify finish) | VCPG YK DWHXD U | Yoke mount kit (specify finish) |
| VCPGSRM U | Surface mount kit, with no Up-Light | RSXWBA DWHXD U | RSX WBA wall bracket (specify finish) |
| VCPGUSRM U | Surface mount kit, with Up-Light | VCPGHS DWHXD U | House side shield (specify finish) |

NOTES

- P1-P6 not available with V8. P7 not available with V4.
- Not available with P7.
- Only vertical height adjustment. No angle adjustment. Use PM and SLVSQ or SLVRD for mounting to angled ceiling or canopies.
- Not available with 347V or 480V.
- E8WC and E10WH only rated up to 35°C ambient.
- E8WC & E10WH only available with P1-P4 packages.
- DMG option not available with standalone or networked sensors/controls.
- Needs an nLight Air Normal Power Sensing (NPS) device in the group. VCPG NLTAIR2 PIR and PIRH devices cannot act as NPS devices.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Performance Package | Watts | Distribution Type | 30K (3000K, 70 CRI) | | 35K (3500K, 70 CRI) | | 40K (4000K, 70 CRI) | | 50K (5000K, 70 CRI) | |
|---------------------|-------|-------------------|---------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|
| | | | Lumens | LPW | Lumens | LPW | Lumens | LPW | Lumens | LPW |
| P1 | 27W | TSE | 3,581 | 135 | 3,670 | 138 | 3,815 | 144 | 3,876 | 146 |
| | | TSM | 3,620 | 136 | 3,710 | 140 | 3,856 | 145 | 3,917 | 147 |
| | | TSW | 3,592 | 135 | 3,681 | 139 | 3,827 | 144 | 3,888 | 146 |
| | | TSR | 3,464 | 130 | 3,550 | 134 | 3,690 | 139 | 3,749 | 141 |
| | | LANE | 3,507 | 132 | 3,594 | 135 | 3,736 | 141 | 3,796 | 143 |
| P2 | 34W | TSE | 4,577 | 135 | 4,691 | 138 | 4,876 | 144 | 4,954 | 146 |
| | | TSM | 4,626 | 136 | 4,741 | 140 | 4,928 | 145 | 5,007 | 147 |
| | | TSW | 4,591 | 135 | 4,705 | 139 | 4,891 | 144 | 4,968 | 146 |
| | | TSR | 4,427 | 130 | 4,537 | 134 | 4,716 | 139 | 4,791 | 141 |
| | | LANE | 4,482 | 132 | 4,594 | 135 | 4,775 | 141 | 4,851 | 143 |
| P3 | 43W | TSE | 5,808 | 134 | 5,952 | 137 | 6,187 | 143 | 6,286 | 145 |
| | | TSM | 5,870 | 135 | 6,015 | 139 | 6,253 | 144 | 6,353 | 146 |
| | | TSW | 5,825 | 134 | 5,970 | 138 | 6,205 | 143 | 6,304 | 145 |
| | | TSR | 5,617 | 130 | 5,757 | 133 | 5,984 | 138 | 6,079 | 140 |
| | | LANE | 5,688 | 131 | 5,829 | 134 | 6,059 | 140 | 6,155 | 142 |
| P4 | 56W | TSE | 7,391 | 131 | 7,575 | 135 | 7,874 | 140 | 7,999 | 142 |
| | | TSM | 7,470 | 133 | 7,656 | 136 | 7,958 | 141 | 8,085 | 144 |
| | | TSW | 7,414 | 132 | 7,597 | 135 | 7,898 | 140 | 8,023 | 143 |
| | | TSR | 7,149 | 127 | 7,326 | 130 | 7,615 | 135 | 7,737 | 137 |
| | | LANE | 7,238 | 129 | 7,418 | 132 | 7,711 | 137 | 7,834 | 139 |
| P5 | 82W | TSE | 10,189 | 124 | 10,442 | 127 | 10,854 | 132 | 11,027 | 134 |
| | | TSM | 10,298 | 125 | 10,553 | 128 | 10,970 | 134 | 11,145 | 136 |
| | | TSW | 10,220 | 124 | 10,473 | 128 | 10,887 | 133 | 11,060 | 135 |
| | | TSR | 9,855 | 120 | 10,099 | 123 | 10,498 | 128 | 10,665 | 130 |
| | | LANE | 9,978 | 121 | 10,226 | 124 | 10,629 | 129 | 10,799 | 131 |
| P6 | 108W | TSE | 12,878 | 120 | 13,197 | 123 | 13,719 | 127 | 13,937 | 129 |
| | | TSM | 13,015 | 121 | 13,338 | 124 | 13,865 | 129 | 14,086 | 131 |
| | | TSW | 12,917 | 120 | 13,237 | 123 | 13,760 | 128 | 13,979 | 130 |
| | | TSR | 12,455 | 116 | 12,764 | 119 | 13,268 | 123 | 13,480 | 125 |
| | | LANE | 12,611 | 117 | 12,924 | 120 | 13,435 | 125 | 13,649 | 127 |
| P7 | 122W | TSE | 15,503 | 125 | 15,887 | 128 | 16,515 | 133 | 16,778 | 135 |
| | | TSM | 15,668 | 126 | 16,057 | 129 | 16,691 | 135 | 16,957 | 137 |
| | | TSW | 15,549 | 125 | 15,935 | 129 | 16,564 | 134 | 16,828 | 136 |

Up-light Lumen Output

| Up-light Option | Watts | Lumens |
|-----------------|-------|--------|
| UPL1 | 6.5W | 519 |
| UPL2 | 8.5W | 715 |

Lumen Multiplier for 80CRI

| CCT | Multiplier |
|-----|------------|
| 30K | 0.926 |
| 35K | 0.945 |
| 40K | 0.967 |
| 50K | 0.965 |

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | Lumen Multiplier |
|------------|------------------|
| 0°C 32°F | 1.03 |
| 10°C 50°F | 1.02 |
| 20°C 68°F | 1.01 |
| 25°C 77°F | 1 |
| 30°C 86°F | 0.99 |
| 40°C 104°F | 0.98 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | 0.97 | 0.94 | 0.89 |

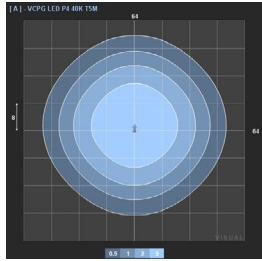
Electrical Load

| Power Package | System Watts | Current (A) | | | | | |
|---------------|--------------|-------------|------|------|------|------|------|
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| P1 | 27W | 0.22 | 0.13 | 0.12 | 0.10 | 0.08 | 0.06 |
| P2 | 34W | 0.28 | 0.16 | 0.14 | 0.13 | 0.10 | 0.08 |
| P3 | 43W | 0.37 | 0.21 | 0.18 | 0.16 | 0.13 | 0.09 |
| P4 | 56W | 0.48 | 0.28 | 0.24 | 0.21 | 0.16 | 0.12 |
| P5 | 82W | 0.68 | 0.40 | 0.35 | 0.30 | 0.24 | 0.18 |
| P6 | 108W | 0.91 | 0.52 | 0.45 | 0.39 | 0.32 | 0.23 |
| P7 | 124W | 1.03 | 0.59 | 0.51 | 0.44 | 0.37 | 0.27 |

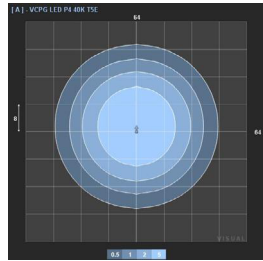
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the [Lithonia Lighting VCPG LED homepage](#).
Tested in accordance with IESNA LM-79 and LM-80 standards

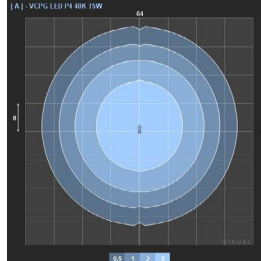
VCPG LED P4 T5M 40K



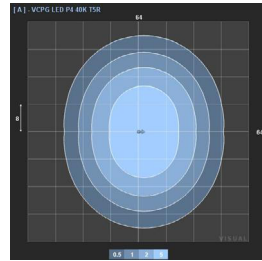
VCPG LED P4 T5E 40K



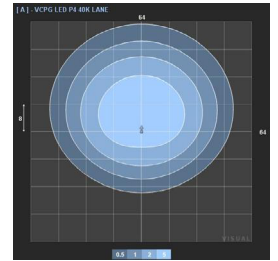
VCPG LED P4 T5W 40K



VCPG LED P4 T5R 40K



VCPG LED P4 LANE 40K



Control/Sensor Options

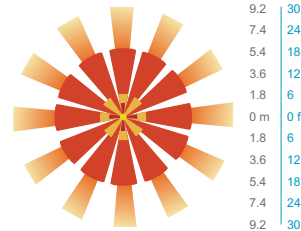
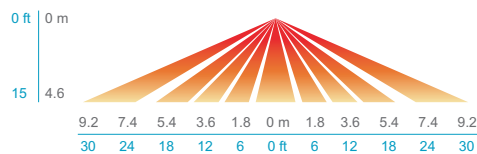
Motion/Ambient Sensor (PIR_, PIRH)

Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

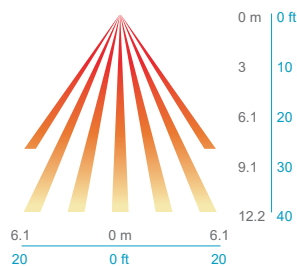
nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR HIGH VIEW

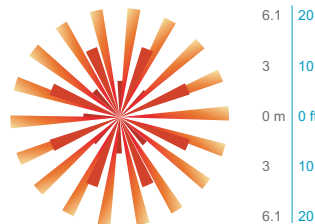


PIRH

SIDE VIEW



TOP VIEW



Motion/Ambient Sensor Default Settings

| Option | Dim Level | High Level (when triggered) | Photocell Operation | Motion Time Delay | Ramp-down Time | Ramp-up Time |
|-----------------------|---|-----------------------------|---------------------|-------------------|----------------|--------------------------------------|
| PIR or PIRH | Motion - 3V (37% of full output) Photocell - 0V (turned off) | 10V (100% output) | Enabled @ 5fc | 5 min | 5 min | Motion - 3 sec Photocell - 45 sec |
| PIR3FC3V or PIRH3FC3V | Motion - 3V (37% of full output) Photocell - 0V (turned off) | 10V (100% output) | Enabled @ 3fc | 5 min | 5 min | Motion - 3 sec Photocell - 45 sec |

Mounting, Options & Accessories



PM – Pendant Mount
(compatible with 3/4 NPT,
pendant stem provided by
others)

D = 19"
H = 4.1"



SRM – Surface Mount

D = 19"
H = 4.1"



**SRM – Surface Mount
with Up-Light**

D = 19"
H = 5.3"



YK – Yoke/Trunnion Mount

D = 19"
H (Yoke) = 10"-18"



ARM – Arm Mount

L = 28"
W = 19"
H = 8"



**PIR & PIRH – Motion/
Ambient sensor**

D = 19"
H = 4.6" (no up-light)
or 5.6" (with up-light)



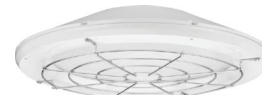
**BDS – Bird shroud for
pendant mount**

D = 19"
H = 8"



**BDS – Bird shroud for
yoke mount**

D = 19"
H (Yoke) = 10"-18"



WG – Wire guard

D = 19"
H = 4.9" (no uplight)
or 5.9" (with up-light)



HS – House side shield

D = 19"
H = 7.1" (no up-light) or
8.1" (with up-light)

FEATURES & SPECIFICATIONS

INTENDED USE

The visually comfortable optics, energy savings, and long life of the VCPG LED Parking Garage luminaire make it an ideal choice for new commercial installations and retrofit parking garage opportunities. It is designed to meet or exceed recommended illuminance criteria when installed as a direct replacement of most HID parking garage luminaires. Its modern dayform and aesthetics also make it appealing for indoor low-bay applications.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down application.

FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provide five different photometric distributions tailored specifically to parking garage applications. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the cave effect.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L89/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10kV (5kA) surge protection device is installed within the luminaire which meets a minimum Category C low-voltage surge protection (IEEE C62.41.2). Luminaire is 0-10V dimmable down to 10% or lower.

INSTALLATION

Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included); kit contains galvanized steel luminaire and outlet box plates and a full pad gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and plates are secured with set screws. Also, available with a yoke/trunnion mount option with 3/4" NPT provision for flexible conduit entry (conduit by others); height can be adjusted from 10-18". Supply leads are 24" in length as standard. Longer supply leads are available as additional options. Design can withstand up to a 3.0 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. IP66 rated for outdoor applications. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

BUY AMERICAN ACT

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

