



VCVL Ultimate LED Architectural Luminaire

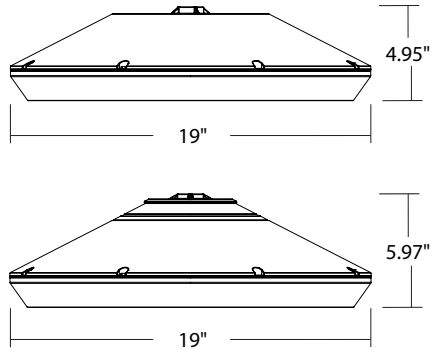


Specifications

Diameter: 19"

Height: 4.95"
(6" with Up-Light)

Weight
(max, with
no options): 25 lbs



Catalog
Number

Notes

Type

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

Introduction

The VCVLX LED, Visually Comfortable Versatile Luminaire, is the ultimate solution for lighting large open spaces. The deep recessed lens design of VCVLX LED minimizes high angle glare, while its patented transition zone reduces the contrast ratio between the luminaire and the dark ceiling. The dedicated up-light module option further reduces this contrast, creating a more visually comfortable environment.



A+ Capable options indicated
by this color background.

Ordering Information

EXAMPLE: VCVLX LED V8 P3 40K 70CRI T5M MVOLT HC5 UPL2 DWHXD

VCVLX LED	LED Light Engines	Package	Color temperature	Color Rendering Index	Distribution	Voltage	Mounting
VCVLX LED	V4 4 Light Engines	P1	30K 3000 K	70CRI	T5E Concentrated	MVOLT	Shipped included SRM Surface mount (24-inch length supply leads) Shipped separately AC6 Aircraft cable with white 6' cord (adjustable, max 6') HC5 Male cast hook with black 5' cord (sealed, no plug)
	V8 8 Light Engines	P2	35K 3500 K	80CRI	T5M Medium	347	
		P3	40K 4000 K		T5W Wide	480	
		P4	50K 5000 K		T5R ¹ Rectangular		
		P5					
		P6					
		P7 (with V8 only)					

Options	Finish (required)
Shipped installed UPL1 Up-Light: 500 lumens ² UPL2 Up-Light: 700 lumens ³ E7WC Emergency battery backup, AC Activate, Certified in CA Title 20 MAEDBS (7W, -20°C min) ^{4,5,6} E10WC Emergency battery backup, AC Activate, Certified in CA Title 20 MAEDBS (10W, 0°C min) ^{4,5,6} E18WC Emergency battery backup, AC Activate, Certified in CA Title 20 MAEDBS (18W, -20°C min) ^{4,5,6} HA High ambient (50°C, only P1-P4) DMG External 0-10V leads (no controls) ⁷	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black
Standalone Sensors/Controls PIR Motion/ambient sensor for 8-15' mounting heights PIRH Motion/ambient sensor for 15-30' mounting heights PIR3FC3V Motion/ambient sensor for 8-15' mounting heights, pre programmed to 3fc and 35% light output PIRH3FC3V Motion/ambient sensor for 15-30' mounting heights, pre programmed to 3fc and 35% light output Networked Sensors/Controls NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8-15' mounting heights ⁹ NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15-30' mounting heights ⁹ NLTAIREM2 PIR nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 8-15' mounting heights ^{8,9} NLTAIREM2 PIRH nLIGHT AIR Wireless enabled, UL 924 Listed motion/ambient sensor for emergency circuits for 15-30' mounting heights ^{8,9}	



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
© 2021-2024 Acuity Brands Lighting, Inc. All rights reserved.

VCVLX LED
Rev. 11/05/24

Ordering Information Cont.

Accessories

Ordered and shipped separately.

VCPGSRM U	Surface mount kit
VCPGWG U	Wire guard
SLVSQ	Quick mount pendant swivel kit, square
SLVRD	Quick mount pendant swivel kit, round
VCVLSC120	Safety cable 120"
VCVLSC240	Safety cable 240"

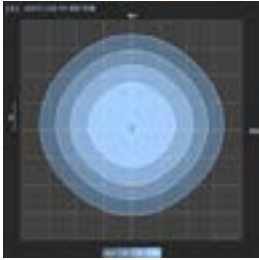
NOTES

- 1 Not available in P7 package or with V8 option.
- 2 UPL1 not available with dim-to-off functionality.
- 3 UPL2 available with dim-to-off upon request.
- 4 Not available with 347V, 480V, AC6 or HC5.
- 5 E7WC, E10WH, and E18WC only rated up to 35°C ambient.
- 6 E7WC and E18WC only available with P1-P4 packages. E10WH available with P1-P5 packages.
- 7 DMG option not available with standalone or network sensors/controls.
- 8 Needs an nLight AIR Normal Power Sensing (NPS) device in the group.
- 9 Will need a junction box extension if surface mounted.

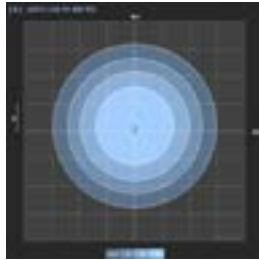
Photometric Diagrams

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

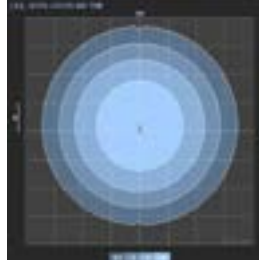
VCVL LED V4 P4 T5M 40K



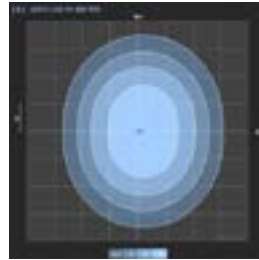
VCVL LED V4 P4 T5E 40K



VCVL LED V4 P4 T5W 40K



VCVL LED V4 P4 T5R 40K



Performance Data

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.

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

Performance Data

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.

Lumen Output, V4 Option

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	3,546	133	3,634	137	3,778	142	3,838	144
		TSM	3,573	134	3,662	138	3,807	143	3,867	146
		TSW	3,509	132	3,596	135	3,738	141	3,798	143
		TSR	3,421	129	3,506	132	3,645	137	3,703	139
		LANE	3,380	127	3,464	130	3,601	136	3,658	138
P2	34W	TSE	4,532	133	4,644	137	4,828	142	4,905	144
		TSM	4,567	134	4,680	138	4,865	143	4,942	146
		TSW	4,484	132	4,595	135	4,777	141	4,853	143
		TSR	4,372	129	4,481	132	4,658	137	4,732	139
		LANE	4,320	127	4,427	130	4,602	136	4,676	138
P3	43W	TSE	5,750	133	5,893	136	6,126	141	6,223	143
		TSM	5,795	134	5,938	137	6,173	142	6,271	145
		TSW	5,690	131	5,832	134	6,062	140	6,158	142
		TSR	5,548	128	5,686	131	5,910	136	6,004	138
		LANE	5,482	126	5,618	130	5,840	135	5,933	137
P4	56W	TSE	7,318	130	7,500	133	7,796	138	7,920	141
		TSM	7,375	131	7,558	134	7,856	140	7,981	142
		TSW	7,242	129	7,421	132	7,714	137	7,837	139
		TSR	7,061	125	7,236	129	7,522	134	7,641	136
		LANE	6,977	124	7,150	127	7,432	132	7,550	134
P5	82W	TSE	10,088	123	10,339	126	10,747	131	10,918	133
		TSM	10,166	124	10,418	127	10,830	132	11,002	134
		TSW	9,982	122	10,230	125	10,634	129	10,803	132
		TSR	9,733	118	9,974	121	10,368	126	10,534	128
		LANE	9,617	117	9,856	120	10,245	125	10,408	127
P6	108W	TSE	12,751	118	13,067	121	13,583	126	13,799	128
		TSM	12,849	119	13,168	122	13,688	127	13,906	129
		TSW	12,617	117	12,930	120	13,441	125	13,655	127
		TSR	12,302	114	12,607	117	13,105	122	13,313	124
		LANE	12,155	113	12,457	116	12,948	120	13,155	122

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 Output, V8 Option

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	26W	TSE	3,639	140	3,729	143	3,876	149	3,938	151
		TSM	3,667	141	3,758	145	3,906	150	3,968	153
		TSW	3,600	138	3,690	142	3,835	148	3,897	150
P2	33W	TSE	4,650	140	4,765	143	4,954	149	5,033	151
		TSM	4,686	141	4,802	144	4,992	150	5,071	152
		TSW	4,601	138	4,715	142	4,901	147	4,980	150
P3	42W	TSE	5,900	139	6,047	143	6,286	148	6,386	151
		TSM	5,946	140	6,093	144	6,334	149	6,435	152
		TSW	5,839	138	5,984	141	6,220	147	6,319	149
P4	55W	TSE	7,509	136	7,696	139	7,999	145	8,127	147
		TSM	7,567	137	7,755	140	8,061	146	8,189	148
		TSW	7,431	135	7,615	138	7,916	143	8,042	146
P5	81W	TSE	10,351	129	10,608	132	11,027	137	11,203	139
		TSM	10,431	130	10,690	133	11,112	138	11,289	140
		TSW	10,242	127	10,497	130	10,911	136	11,085	138
P6	106W	TSE	13,083	124	13,408	127	13,937	132	14,159	134
		TSM	13,184	125	13,511	128	14,045	133	14,268	135
		TSW	12,946	123	13,267	126	13,791	131	14,011	133
P7	124W	TSE	15,350	124	15,730	127	16,351	132	16,612	134
		TSM	15,468	125	15,851	128	16,477	133	16,740	135
		TSW	15,189	122	15,566	126	16,180	130	16,438	133

Control/Sensor Options

Motion/Ambient Sensor (PIR, PIRH)

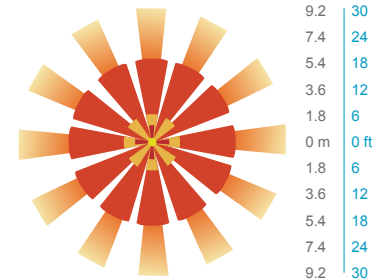
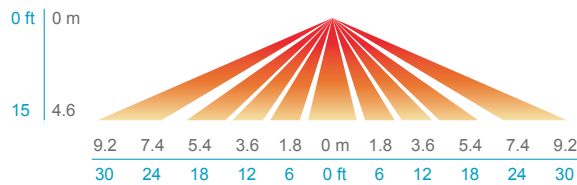
Motion/Ambient sensor (Sensor Switch MSOD, nLight AIR RMSOD) is integrated into the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while 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™+) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

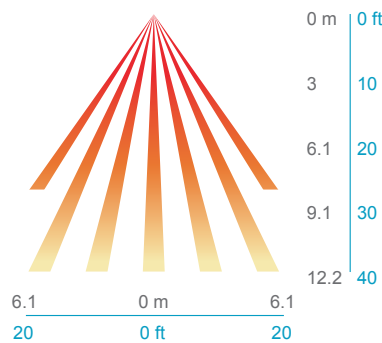
PIR

HIGH VIEW

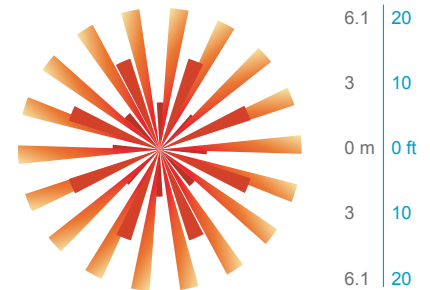


PIRH

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



AC6 – Aircraft Cable

D = 19"
H = 12" - 72"



HC5 – Hook & Cord

D = 19"
H = 9.1" (no up-light)
or 10.3" (with up-light)



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

L = 20.4"
W = 19"
H = 5.45" (no up-light)
or 6.45" (with up-light)

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek styling and versatility offered by VCVL and VCVL Ultimate (VCVLX) makes them ideal for wide range of applications such as commercial offices, retail spaces, school gymnasiums, large conference rooms or any large open areas. And with VCVL's array of mounting options, you can install them in any building style or architectural design.

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 that allow you to create uniform distribution, no matter the application. 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. 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. Aircraft cable and hook & cord options allow the luminaire to be suspended from the ceiling and come with a cord for easy wiring. 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. Supply leads are 24" in length as standard. Longer supply leads are available as additional options.

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.

Government Procurement

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations

BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act

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.