

12V LED Large Flood Light with Variable Lumen Output (VLO)

16022



PROJECT:	ORDERING:
TYPE:	COMMENTS:

OVERVIEW

The VLO Flood Light is unsurpassed in both style and performance. The VLO combines advanced LED and driver technology with premium materials. A single fixture provides the installer the option to select three different lumen outputs reducing installation complexity and increasing infield versatility.

FEATURES

- High lumens in small body
- Variable lumen output
- Advanced optics provide superb center to edge uniformity
- Designed with an extra wide beam angle for wash or wide flood applications.
- Complete sealed system for improved reliability
- Advanced ESD surge protection (6 kV)
- IP66 rated

PERFORMANCE

Output Position	Level 1	Level 2	Level 3
Lumen output	500	675	865
Input voltage	9-15	9-15	9-15
Power (VA) @ 15VAC	11	14	18
Power (W) @ 15VDC	7	9	12
Efficacy (Lm/W @DC)	75	75	72

SPECIFICATIONS

Fixture

Light Source	Integrated LED
Number of LEDs	1 High Output COB
Color Temperature	2700K, 3000K
Color Rendering Index	80
Beam Angles	NEMA 6x5 (126 degrees wide by 88 degrees tall)
Binning	3 Step
Orientation	Fixture can be used in UP or DOWN position

Input

Input Voltage Range	9 – 15V AC or DC with no loss in light output
Input Frequency	47 – 63Hz
Efficiency	72L/W @ 15VDC
Power Factor	> 0.7 @ 15VAC

Output

Lumen Level 3 (high)	865
Lumen Level 2 (medium)	675
Lumen Level 1 (low)	500 (factory setting)

Environmental

Environmental Protection Rating	Wet, IP66
Operation Ambient Temperature	-25°C - +40°C
Expected Life Time (L70)	50K Hours

Mechanical & Housing Specification

Length	7.07" / 154 mm
Width	5.93" / 69 mm
Height	7.17" / 106 mm
Housing Material	Cast Aluminum
Housing Color & Surface	AZT/BKT
Weight Alum	3.95 lbs / 1.79 kg

FIXTURE

Glass Lens

Tempered, shock resistant glass with high tolerance for thermal expansion and stress.

Body

A380 Aluminum

Wire

18 AWG, SPT-1W, 105°C, 300V, 48" usable length

Optics

Custom reflector optic

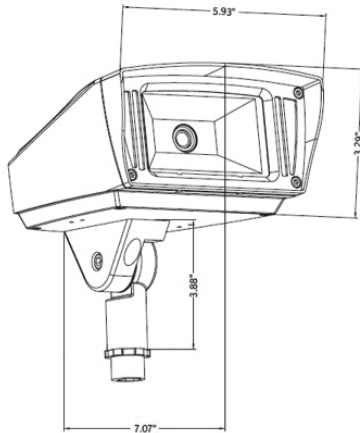
Included Accessories

Includes 8" slotted in-ground stake, 2 gel-filled wire nuts and lumen switching magnetic key.

AVAILABLE FINISHES

 AZT Textured Architectural Bronze	 BKT Textured Black
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DIMENSIONS



PHOTOMETRIC

VLO Flood - 126° x 88°								
HIGH – 865 Lumens			MEDIUM – 675 Lumens			LOW – 500 Lumens		
Ft. Away	Foot Candles	Beam Width	Ft. Away	Foot Candles	Beam Width	Ft. Away	Foot Candles	Beam Width
2'	12.40	5.6	2'	9.45	5.6	2'	7.00	5.6
4'	6.20	11.2	4'	4.72	11.2	4'	3.50	11.2
8'	3.10	22.4	8'	2.36	22.4	8'	1.75	22.4
12'	2.07	33.7	12'	1.57	33.7	12'	1.17	33.7
24'	1.03	67.3	24'	0.79	67.3	24'	0.58	67.3
36'	0.69	101.0	36'	0.52	101.0	36'	0.39	101.0
48'	0.52	134.6	48'	0.39	134.6	48'	0.29	134.6
60'	0.41	168.3	60'	0.31	168.3	60'	0.23	168.3

INSTALLATION INFORMATION

Type Supply	Voltage Level	Dimming Level		
		1	2	3
AC Voltage (VA)	9V	10.5	13.5	17.5
	12V	11	14	17.5
	15V	11	14.5	18
DC Voltage (W)	9V	7.5	10	13
	12V	7	9	12
	15V	7	9	12

Power (W/VA)	Wire Gauge / Length / (ft/m) Load Chart			
	10	12	14	16
0-20	1860/567	1150/351	730/223	450/137
40	930/283	580/177	370/113	230/70
60	620/189	390/119	240/73	150/46
80	470/143	290/88	180/55	110/34
100	370/113	230/70	140/43	90/27
>100	Consult Technical Support			

TROUBLESHOOTING

Fixture does not illuminate	Verify power connections. Review installation guide for installation problem. Insure manual reset breaker has not been tripped.
Fixture flashes	Verify load calculations for the installation. Check voltage at affected fixture. Verify you are on 15V output tap.
Fixture turns off	Verify power connections. Review installation guide for installation problems. Insure manual reset breaker has not been tripped. Check voltage drop at fixture.
Fixture trips breaker	Check installation for a possible short or overload state. Isolate the identified short and replace affected fixture or remove fixture(s) installed in overload.
Fixture returns to original lumen output	The fixture has to be powered on for 2 minutes after final adjust to exit programming mode.

LISTING

UL 1838 Issued: 2003/01/13 Ed: 3 Rev: 2015/01/13
Low Voltage Landscape Lighting Systems.

CSA C22.2#250.7 Issued: 2007/11/01 (R2012)
Ed: 1 Extra-low-voltage landscape lighting systems –
General Instruction No. 1: 2008.

CE marking in accordance with IEC 62471 Issue:2006/07/01 Ed:1
Photobiological safety of lamps and lamp systems. No. 219
CE/ CB Scheme. Aluminum fixtures only.

Contact: layouts@kichler.com

1. Chip binning ranges: (2700K 80+ CRI: 3 step), (3000K 80+ CRI: 3 step). LED chip data measured in accordance to IES LM-80
2. Fixture has a 90% confidence luminous flux range to stated 3000K CCT target. Photometric (flux and color) data has been measured in accordance to IES LM-79.
3. Actual efficacy value can be calculated as follows: Lumen value divided by average power consumption.
4. Do not extend beyond the recommended maximum run length.
5. Recommend product be installed with 10 or 12 gauge wire.
6. Recommend 80% load/20% overhead rule for fixture load planning in reference to the power source. Calculating fixture loading this way provides additional resource for fixture adjustment and loss due to voltage drop due to wire run lengths.
7. We reserve the right to modify and improve the design of our fixtures without prior notice. We cannot guarantee to match existing installed fixtures for subsequent orders or replacements in regards to product appearance, CCT, or lumen output.
8. Do not modify product beyond instructions or warranty will be void.

WARRANTY

See Kichler.com/Warranty for warranty details.

Consult Kichler Advanced Product Solutions for additional support at 844-452-5437.