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

Level

400

9-15

8.5

5.25

76

Level

2

600

9-15

12.5

8.5

70

l evel

3

835

9-15

17

12

69



OVERVIEW

The VLO Accent Light is unsurpassed in both style and performance. The VLO combines advanced LED, Driver & Optic 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.

SPECIFICATIONS

Fixture

Light Source Integrated LED Number of LEDs 1 High Output COB 2700K. 3000K Color Temperature Color Rendering Index 80+ 15°, 35°, 60° Beam Angles Binning 3 Step Fixture can be used in UP or DOWN position

Input

Input Voltage Range

Input Frequency Input Current Inrush Current Efficiency Power Factor

9 – 15V AC or DC with no loss in light output 47 - 63Hz 2.55A Max @ 9VAC 9A Max >70L/W@12VDC > 0.7 @ 15V

Output

Lumen Level 3 (max) Lumen Level 2 (mid) Lumen Level 1 (standard) 835 600 400 (factory setting)

Environmental

Environmental Protection Rating Wet. IP 66 **Operation Ambient Temperature** -25°C - +40°C Expected Life Time (L70) 50K Hours

Mechanical & Housing Specification

Length Width Height Housing Material Housing Color & Surface Weight

6" / 154 mm 2.7" / 69 mm 4.2" / 106 mm Aluminum, Brass AZT, BKT, CBR, WHT Alum 24 oz/ 0.7Kg, Brass 48oz/1.4Kg

PROJECT:	ORDERING:
TYPE:	COMMENTS:

PERFORMANCE

Output Position

Lumen output

Input voltage

Power (VA) @ 15VAC

Power (W) @ 15VDC

Efficacy (Lm/W@DC)

FEATURES

- · High lumens in small body
- Variable lumen output
- Advanced optics provide superb center to edge uniformity
- Available beam angle: 15°, 35° & 60°
- · Complete sealed system for improved reliability
- Advanced ESD protection (6 kV)
- IP66 rated

FIXTURE

Glass Lens

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

Body

A380 Aluminum, C360 Brass casting

Wire

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

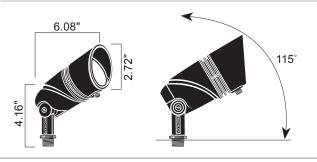
Optics

Polycarbonate TIR lens provides superior fixture beam angle. Available in 15°, 35° and 60°.

Included Accessories

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

Dimensions



AVAILABLE FINISHES



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

16018-16020

INSTALLATION INFORMATION

Туре	Voltage	Dimming Level				
Type Supply	Level	1	2	3		
AC	9V	8	12	17		
Voltage (VA)	12V	9	13	17.5		
	15V	9	13	18		
DC	9V	6	9	12.5		
Voltage (W)	12V	5.5	8	12		
	15V	5.5	8	12		

Power	Wire Gauge / Length / (ft/m) Load Chart						
(W)	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						

Ordering Guide (product number breakdown)	1 Item Number for Fixture Size & Beam Angle: 16018 = Small 15° Spot 16019 = Small 35° Flood 16020 = Small 60° Wide Flood	2 Product Finish: AZT = Textured Architectural Bronze BKT = Black CBR = Centennial Brass WHT = Textured White (only in 35°)	3 Color Temperature: 27 = 2700K, Warm White 30 = 3000K, Pure White
Example: 16018 CBR 30	<u>16018</u>	<u>C</u> <u>B</u> <u>R</u>	<u>3</u> <u>0</u>

	ltem Number	16018	3 (low)		16019	low)		16020) (low)
	Beam Angle	15° Spot			35° Flood			60° Wid	le Flood
S	Max Candela	3521			9	48		3	96
LOW LUMENS	Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
No.	8'	40.2	2.1	4'	37.3	2.5	4'	17.1	4.9
۲	12'	17.9	3.2	8'	9.3	4.9	8'	4.3	9.8
D I	24'	4.5	6.3	16'	2.3	9.8	16'	1.1	19.6
	36'	2	9.5	24'	1	14.7	24'	.5	29.4
	48'	1.1	12.6	32'	.6	19.6	32'	.3	39.2
	60'	.7	15.8	40'	.4	24.5	40'	.2	49
	ltem Number	16018 (mid)			16019 (mid)			16020 (mid)	
	Beam Angle 15° Spot			35° I	Flood		60° Wide Flood		
S	Max Candela	49	925		13	315		560	
MID LUMENS	Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
Σ	8'	74.7	2.1	4'	65.6	2.5	4'	29.1	4.9
0 LI	12'	33.2	3.2	8'	16.4	4.9	8'	7.3	9.8
M	24'	8.3	6.3	16'	4.1	9.8	16'	1.8	19.6
	36'	3.7	9.5	24'	1.8	14.7	24'	.8	29.4
	48'	2.1	12.6	32'	1	19.6	32'	.5	39.2
	60'	1.3	15.8	40'	.7	24.5	40'	.3	49
	ltem Number 16018 (high)			16019 (high)			16020 (high)		
	Beam Angle				35° Flood			60° Wide	de Flood
S	Max Candela	ela 6576			1816			750	
Ē	Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
No.	8'	100.8	2.1	4'	86	2.5	4'	40.8	4.9
H	12'	44.8	3.2	8'	21.5	4.9	8'	10.2	9.8
HIGH LUMENS	24'	11.2	6.3	16'	5.4	9.8	16'	2.6	19.6
-	36'	5	9.5	24'	2.4	14.7	24'	1.1	29.4
	48'	2.8	12.6	32'	1.3	19.6	32'	.6	39.2
	60'	1.8	15.8	40'	.9	24.5	40'	.4	49

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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
- 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.
- 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 product support and design layouts by visiting Kichler.com/APS.



Visit Kichler.com/VLOaccent

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