

### **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.

PROJECT:	ORDERING:
TYPE:	COMMENTS:

### **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

### **PERFORMANCE**

Output Position	Level 1	Level 2	Level 3
Lumen output	400	600	835
Input voltage	9-15	9-15	9-15
Power (VA) @ 15VAC	8.5	12.5	17
Power (W) @ 15VDC	5.25	8.5	12
Efficacy (Lm/W@DC)	76	70	69

#### **SPECIFICATIONS**

## **Fixture**

Light Source Integrated LED
Number of LEDs 1High Output COB
Color Temperature 2700K, 3000K

Color Rendering Index 80+
Beam Angles 15°, 35°, 60°
Binning 3 Step
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

Input Current 2.55A Max @ 9VAC

Inrush Current 9A Max

Efficiency > 70L/W @ 12VDC
Power Factor > 0.7 @ 15V

### Output

Lumen Level 3 (max) 835 Lumen Level 2 (mid) 600

Lumen Level 1 (standard) 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 6" / 154 mm
Width 2.7" / 69 mm
Height 4.2" / 106 mm
Housing Material Aluminum, Brass
Housing Color & Surface AZT, BKT, CBR, WHT
Weight Alum 24 oz / 0.7Kg,
Brass 48oz / 1.4Kg

#### **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

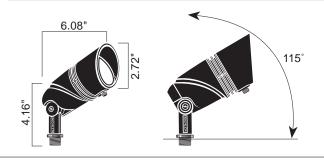
### **Optics**

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**













# **INSTALLATION INFORMATION**

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

Item Number for Fixture Size & Beam Angle:

**16018** = Small 15° Spot 16019 = Small 35° Flood

16020 = Small 60° Wide Flood

Product Finish:

**AZT** = Textured Architectural Bronze

**BKT** = Black

**CBR** = Centennial Brass

**WHT** = Textured White (only in 35°)

Color Temperature:

**27** = 2700K, Warm White **30** = 3000K, Pure White

Example: 16018 CBR 30

16018

CBR

3 0

	Item Number	16018	(low)		16019	(low)	ш	16020	(low)
	Beam Angle	15° Spot			35° Flood			60° Wide Flood	
<u>N</u>	Max Candela 3521			948			3	96	
巨	Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
LOW LUMENS	8'	40.2	2.1	4'	37.3	2.5	4'	17.1	4.9
3	12'	17.9	3.2	8'	9.3	4.9	8'	4.3	9.8
9	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
	Item Number	16018 (mid)			16019 (mid)			16020 (mid)	
	Beam Angle	15° 5	Spot		35° F	35° Flood		60° Wide Flood	
S	Max Candela	49	)25		13	15		5	60
Z U	Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
MID LUMENS	8'	74.7	2.1	4'	65.6	2.5	4'	29.1	4.9
	12'	33.2	3.2	8'	16.4	4.9	8'	7.3	9.8
₹	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
	Item Number	16018 (high)			16019 (high)			16020	(high)
	Beam Angle	15°	Spot		35° Flood			60° Wi	de Flood
S	Max Candela	65	576		18	316		7	'50
恒	Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
5	8'	100.8	2.1	4'	86	2.5	4'	40.8	4.9
로	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



### **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.

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.
- $\textbf{3.} \ \textbf{Actual efficacy value can be calculated as follows: Lumen value divided by average power consumption.}\\$
- 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 product support and design layouts by visiting Kichler.com/APS.



Visit Kichler.com/VLOaccent

