

### **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<br>1 | Level<br>2 | Level<br>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 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

9 - 15VInput Voltage Range

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)

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 Aluminum, Brass Housing Material 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

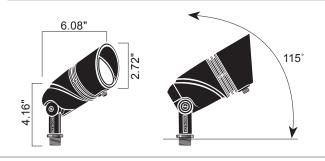
### **Optics**

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**







**CBR** Centennial





## **INSTALLATION INFORMATION**

| Type                  | Voltage                      | Dimming Level |    |      |  |
|-----------------------|------------------------------|---------------|----|------|--|
| Supply                | Type Voltage<br>Supply Level |               | 2  | 3    |  |
| AC<br>Voltage<br>(VA) | 9V                           | 8             | 12 | 17   |  |
|                       | 12V                          | 9             | 13 | 17.5 |  |
|                       | 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    | 80 470/143                              |          | 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 15 Size & Beam Angle:

**16018** = Small 15° Spot **16019** = Small 35° Flood 16020 = Small 60° Wide Flood

Item Number for Fixture

Product Finish:

**AZT** = Textured Architectural Bronze

**BKT** = Black

**CBR** = Centennial Brass

WHT = Textured White (only in 35°)

3 Color Temperature: Color

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

Example: 16018 CBR 30

16018

CBR

3 0

|             | Item<br>Number              | 16018        | (low)      |              | 16019        | (low)      |              | 16020          | O (low)    |
|-------------|-----------------------------|--------------|------------|--------------|--------------|------------|--------------|----------------|------------|
|             | Beam Angle                  | 15°          | Spot       |              | 35° Flood    |            |              | 60° Wide Flood |            |
| S           | Max Candela                 | 3!           | 3521       |              | 948          |            |              | 396            |            |
| LOW LUMENS  | Ft. Away                    | Foot-candles | Beam Width | Ft.          | Foot-candles | Beam Width | Ft.          | Foot-candles   | Beam Width |
| 2           | 8'                          | 40.2         | 2.1        | 4'           | 37.3         | 2.5        | 4'           | 17.1           | 4.9        |
| ٧           | 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°          | Spot       |              | 35° F        | Flood      |              | 60° Wid        | de Flood   |
| S           | Max Candela                 | 49           | 925        |              | 13           | 315        |              | 5              | 60         |
| MID LUMENS  | Ft. Away                    | Foot-candles | Beam Width | Ft.          | Foot-candles | Beam Width | Ft.          | Foot-candles   | Beam Width |
| $\geq$      | 8'                          | 74.7         | 2.1        | 4'           | 65.6         | 2.5        | 4'           | 29.1           | 4.9        |
| DL          | 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<br>Number 16018 (high) |              |            | 16019 (high) |              |            | 16020 (high) |                |            |
|             | Beam Angle                  | 15°          | Spot       |              | 35° I        | Flood      |              | 60° Wi         | de Flood   |
| S           | Max Candela                 | 6            | 576        |              | 1816         |            |              | 750            |            |
| 恒           | Ft. Away                    | Foot-candles | Beam Width | Ft.          | Foot-candles | Beam Width | Ft.          | Foot-candles   | Beam Width |
| S.          | 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.
- $\textbf{3.} \ \textbf{Actual efficacy value can be calculated as follows: Lumen value divided by average power consumption.}\\$
- $\textbf{4.}\ \mathsf{Do}\ \mathsf{not}\ \mathsf{extend}\ \mathsf{beyond}\ \mathsf{the}\ \mathsf{recommended}\ \mathsf{maximum}\ \mathsf{run}\ \mathsf{length}.$
- 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.
- $\textbf{8.} \ \mathsf{Do} \ \mathsf{not} \ \mathsf{modify} \ \mathsf{product} \ \mathsf{beyond} \ \mathsf{instructions} \ \mathsf{or} \ \mathsf{warranty} \ \mathsf{will} \ \mathsf{be} \ \mathsf{void}.$

## 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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