

VLO 12V LED High Lumen Accent

One light, two powerful lumen levels.

Our VLO High Lumen Accent fixture is equipped with the Lumen Effects System. This allows you to easily switch between two lumen outputs: 1000 or 1200, with the use of the Magnetic Key. Its field configurable design allows for customization based on the needs of the application, helping to produce more lumens while maintaining the same body style as the VLO Large Lumen Accent. Plus, it's built to deliver light over large areas such as tall trees and three-story houses, creating a seamless presentation.



*Factory setting

VLO 12V LED High Lumen Accent with Lumen Effects System makes designing and modifying landscape lighting easier.



Lumen Effects System eliminates the need to mechanically adjust or open the fixture, supporting product longevity.



Flexible Lumen Levels allows you to set and adjust the lumen levels as the landscape needs change.



Sealed and fully encapsulated to thermally control the fixture and safeguard from water ingression and outdoor elements – helping to extend the life of the product.



Versatile IP66 rated design provides a dust and water tight housing that can protect against strong jets of water that can occur in coastal areas with strong storms or applications close to sprinklers.



6,000-volt system surge protection protects against power surges and irregularities when paired with one of our transformers.



Product Item Number for Color 3 Ordering Guide 2 Finish: **Temperature:** Fixture & Beam Angle: (product number 16160 = 15° Narrow Spot **AZT** = Textured Architectural Bronze 27 = 2700K, Warm White breakdown) **30** = 3000K, Pure White 16161 = 35° Flood **BKT** = Textured Black 16162 = 60° Wide Flood **CBR** = Centennial Brass 50* = 5000K, Bright White 16162 CBR 30 Example: 16162 CBR 30 *5000K option only available in 16162 60° Flood in AZT finish. **BEAM SPREAD** Wide Flood Narrow Spot Flood

PHOTOMETRICS

16160AZT27	16160AZT30	16161AZT27	16161AZT30	16162AZT27	16162AZT30
16160BKT27	16160BKT30	16161BKT27	16161BKT30	16162BKT27	16162BKT30
16160CBR27	16160CBR30	16161CBR27	16161CBR30	16162CBR27	16162CBR30
15° Narrow Spot	15° Narrow Spot	35° Flood	35° Flood	60° Wide Flood	60° Wide Flood
2700K – Warm White	3000K – Pure White	2700K – Warm White	3000K – Pure White	2700K - Warm White	3000K - Pure White

	ltem	16160 (Low	- 10(00 lm)		
	Beam	15° Narrow Spot					
S	Candela	Max (Max Candela: 12,200				
Ž	Distance	Foot-candles	1000) Im	Beam Width		
N	84'	1.7			18'		
	72'	2.4			15'		
1	60'	3.4			13'		
LEVEL 1 LUMENS	48'	5.3			10'		
Ξ.	36'	9.4			7'		
	24'	21			5'		
	12'	85			2.5'		
	8'	190			1.7'		

ltem	16161	(Low - 100)	0 lm)
Beam	35° Flood		
Candela	Ma	x Candela: 2,3	94
Distance	Foot-candles	1000 lm	Beam Width
84'	0.3		42'
72'	0.5		36'
60'	0.7		30'
48'	1		24'
36'	1.8		18'
24'	4.2		12'
12'	17		6'
8'	37		4'

Item	1616	5 2 (Low - 1000 I	m)	
Beam		60° Wide Flood		
Candela		Max Candela: 830		
Distance	Foot-candles	1000 lm	Beam Width	
84'	0.1		120'	
72'	0.2		103'	
60'	0.2		86'	
48'	0.4		68.5'	
36'	0.6		51.5'	
24'	1.4		34.5'	
12'	5.8		17'	
8'	13		11.5'	

	ltem	16160 (High	- 12	00 lm)		
	Beam	15°	Narro	ow Sp	ot		
S	Candela	Max 0	Max Candela: 14,600				
Т Ш	Distance	Foot-candles	12.0	0 lm	Beam Width		Di
LUMENS	84'	2.1			18'		
	72'	2.8			15'		
1.2	60'	4.1			13'		
LEVEL 2	48'	6.4			10'		
Ξ.	36'	11			7'		
	24'	25			5'		
	12'	102			2.5'		
	8'	229			1.7'		

Item	16161	(High	- 120	0 lm)	It	:em	
Beam		35° Flo	ood		Be	am	
Candela	Ma	x Cande	ela: 2,8 [°]	72	Cand	lela	
Distance	Foot-candles	1200	Im	Beam Width	Dista	nce	Foot
84'	0.4			42'		84'	
72'	0.6			36'		72'	
60'	0.8			30'		60'	
48'	1.2			24'		48'	
36'	2.2			18'		36'	
24'	5			12'		24'	
12'	20			6'		12'	
8'	45			4'		8'	

16162 (**High** - 1200 lm) 60° Wide Flood Max Candela: 996 Beam Width t-candles 1200 lm 0.1 120' 0.2 103' 0.3 86' 0.4 68.5' 0.8 51.5 34.5' 1.7 17' 6.9 11.5' 15.6

Create a Beautiful Moonlight Effect

VLO 5000K LED HIGH LUMEN ACCENT

16162AZT50 60° Wide Flood 5000K - Bright White Comes equipped with a moonlighting kit which includes a Long Cowl and a 6500K CCT Mercury Vapor Green Lens to mimic the color of the moon. Use our Tree Bracket Mount (15609AZT) to install the fixture on trees for an optimal moonlighting effect.



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DIMENSIONS



FINISH OPTIONS



AZT - Textured Architectural Bronze

BKT - Textured Black

CBR - Centennial Brass

PERFORMANCE

Output Position	Level 1	Level 2
Lumen Output	1000 lm	1200 lm
Input Voltage	9V-15V	9V-15V
Power (VA) @ 12V AC	19VA	23VA
Power (W) @ 12V AC	14W	18W
Efficacy (Im/W@AC)	71 lm/W	67 lm/W
Halogen Equivalents	100W	120W

SPECIFICATIONS

Fixture

Number of LEDs Color Temperature Color Rendering Index Beam Angle Binning Orientation 1 High Output COB 2700K, 3000K, 5000K 80+ 15°, 35°, and 60° 3 Step Up or Down

Input

Input Frequency Input Current Inrush Current Efficiency Power Factor 47 - 63Hz 1.6mA / 1.9mA @ 12VAC 8A @ 12VAC 85% @ 12VAC, max. load 0.75 @ 12VAC

Environmental

Environmental Protection Rating Operation Ambient Temperature Lumen Maintenance (L70) System Surge Protection Rating Wet IP66 -25°C - +40°C 50,000 Hours 2.5KV fixture, 6KV system with transformer



Mechanical & Housing Specification

Diameter/Height Fixture Rotation Range Housing Material Housing Color & Surface Weight 6" L x 2.7" W x 4.2" H +25°/-90° from vertical (115° Full) Cast Aluminum, Cast Brass AZT, BKT or CBR Aluminum 1.5 lb / Brass 3 lb

FIXTURE ATTRIBUTES

Lens Material

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

Wire

18 AWG, 105°C, 300V 48" of usable length, SJTW.

Optics

TIR optics provide superior beam angle.

Included Accessories

8" Slotted In-ground Stake, 2 Gel-Filled Wire Nuts, and Magnetic Key.

Optional Accessories

Gutter Mount Surface Mounting Flange 3" Round Mounting Base 6" Fixture Mounting Stem Fixture Mounting Stems Stem Coupler Male/Female Risers 90-Degree Elbow Two Fixture Mount Surface Mounting Bracket Adjustable Height Stem 6" Large Long Cowl 4" Medium 360° Cowl Large Colored Lenses

Large Beam Expander Lens

Junction Box Mounting Bracket

Large Hexcell Louver

15489CBR 15601AZT, BKT 15493CBR 15645AZT, BKT 15656-15658AZT, BKT 15649AZT, BKT 15509-15513CBR 15647AZT, BKT, 15514CBR 15515CBR 15607AZT, BKT 15570AZT, BKT 16068AZT, BKT, CBR 16074AZT, BKT, CBR 16072AMB, 16072FRO, 16072GRN, 16072HGN, 16072RD 16091FRO 16075BK 15609AZT, BKT, CBR

LOAD CHART

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

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TROUBLE SHOOTING

Fixture does not illuminate	Verify power connections. Review installation guide for installation problem. Ensure 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. Ensure 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.

FCC Part 15b; Conducted and radiated.



WARRANTY

Backed by our 15 year limited warranty. Visit Kichler.com/Warranty for details.

DISCLOSURE

- 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.
- 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. Damage caused by misuse (including use for an unintended application) or improper or incorrect installation, maintenance or repair, including failure to follow the applicable care and cleaning instructions, is not covered by our warranty.

ADVANCED PRODUCT SOLUTIONS (APS) & LAYOUT TEAM

Have installation issues or a product and location inquiry? We have you covered. Our APS team can provide you with technical guidance and professionally designed landscape lighting layouts free of charge.

Visit Kichler.com/APS, reach out to us at layouts@kichler.com, or by phone Monday - Friday, 8:00 am to 6:30 pm EST, at 844-KICHLER (844-542-4537) to get started.

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See the entire VLO product line at Kichler.com/VLO

