

# Kichler's 12V integrated LED accent light has the durability you expect with an enhanced modern look, improved performance and superior light quality.

This updated LED accent uses almost 60% less energy and provides even more light output versus the prior design. Less energy consumption allows more fixtures to be placed on a run while providing the homeowner a system that costs less to operate.

PROJECT:	ORDERING:
TYPE:	COMMENTS:

#### **FEATURES**

- · High lumen output in small body
- · Custom optics for superb center-to-the edge uniformity
- Available beam angle: 10°, 35° & 60°
- · Complete sealed system for improved reliability
- · Advanced ESD protection
- IP66 rated

## **PERFORMANCE**

	200 Lumen	300 Lumen	500 Lumen
Input Voltage	9-15V	9-15V	9-15V
VA Total @ 15VAC	3.5	5.25	10
Wattage	2.5	3.5	7
Efficacy (Lm/W)	80	86	71
Halogen Replacement	20W	35W	50W

### **SPECIFICATIONS**

#### **Fixture**

Light Source Integrated LED

Number of LEDs 3 or 6

Kelvin Temperature 2700K, 3000K

Color Rendering Index 10°, 35°, 60° Beam Angles

## Input

Lumens	Input Current		
200	.484A@9VAC	88.40%	0.653
300	.578A@9VAC	86.03%	0.706
500	1.1A@9VAC	86.90%	0.738

Output	Lumens
High	500
Mid	300
Low	200

## Environmental

Environmental Protection Rating Wet

Operation Ambient Temperature -25°C - +40°C Storage Temperature

-40° C - +80°C

**Expected Life Time** 50K Hours > 75°C Tc Max

# Mechanical & Housing Specification

Length	3.5" / 89 mm
Width	3.25" / 83 mm
Height	4.5" / 114 mm
Housing Material	Aluminum, Brass
Housing Color & Surface	Black/Brown/CBR
Weight	Alum 1.05lb/ 0.5Kg,
	Brass 2.3lb/ 1.1Kg

### **FIXTURE**

#### **Glass Window**

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" length

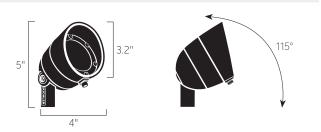
## **Optics**

Polycarbonate TIR lens provides superior fixture beam angle. Available in 10°, 35° and 60°.

## Accessories

Includes gel-filled wirenuts and stake

#### **Dimensions**



# AVAILABLE FINISHES



AZT Architectural Bronze



**BKT** Black

**CBR** Centennial



## **INSTALLATION INFORMATION**

	AC \	/oltage	(VA)	DC Voltage (W)		
Lumens	9V	12V	15V	9V	12V	15V
200	4.32	4.25	5.1	2.8	2.76	2.73
300	5.13	5.3	6.11	3.56	3.51	3.49
500	9.74	9.42	10.1	6.9	6.87	6.73

	Wire Gauge / Length / (ft/m) Load Chart					
Power (W)	10 12 14 1					
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:

**16150** = Small 10° Spot **16151** = Small 35° Flood **16152** = Small 60° Wide Flood

# Product Finish:

**AZT** = Textured Architectural Bronze

**BKT** = Black

**CBR** = Centennial Brass

# Color Temperature:

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

Example: 16150 CBR 30

16150

CBR

3 0

Item Number	161	50		16	151		161	152
Beam Angle	10° S	Spot		35° F	Flood		60° Wid	e Flood
Max Candela	38	67		5	27		27	21
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	38.4	1.5	4'	21.7	2.5	4'	8.3	4.2
12'	17.1	2.2	8'	5.4	4.9	8'	2.1	8.3
24'	4.3	4.5	16'	1.4	9.8	16'	.5	16.7
36'	1.9	6.7	24'	.6	14.7	24'	.2	25
48'	1.1	8.9	32'	.3	19.6	32'	.1	33.3
60'	.7	11.1	40'	2	24.5	40'	.1	41.7
Item Number	161	53		161	54		<b>16</b> 1	155
Beam Angle	10° S	Spot	_	35° F	lood	_	60° Wid	e Flood
Max Candela	52	13		73	88		28	32
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	66.2	1.5	4'	30.5	2.5	4'	10.7	4.3
12'	29.4	2.3	8'	7.6	5	8'	2.7	8.7
24'	7.4	4.6	16'	1.9	9.9	16'	.8	17.4
36'	3.3	6.9	24'	.9	14.9	24'	.3	26.1
48'	1.8	9.2	32'	.5	19.8	32'	.2	34.8
60'	1.2	11.5	40'	.3	24.8	40'	.1	43.4
Item Number	161	56		161	157		161	158
Beam Angle	10° S	Spot		35° F	lood		60° Wid	e Flood
Max Candela	923	36		12	98		514	4.4
Ft. Away	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width	Ft.	Foot-candles	Beam Width
8'	111	1.5	4'	54	2.4	4'	19.2	4.2
12'	49.3	2.2	8'	13.5	4.8	8'	4.8	8.4
24'	12.3	4.4	16'	3.4	9.7	16'	1.2	16.8
36'	5.5	6.6	24'	1.5	14.5	24'	.5	25.2
48'	3.1	8.7	32'	.8	19.3	32'	.3	33.6
60'	2	10.9	40'	.5	24.2	40'	.2	42

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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 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.

#### **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.
- 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

10-year limited 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.



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