

12V Integrated LED Accent Light

16150-16158



PROJECT:	ORDERING:
TYPE:	COMMENTS:

Kichler's new and improved 12V integrated LED accent light has the durability you expect with an enhanced modern look, stronger 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.

FEATURES

- High lumens 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	80+
Beam Angles	10°, 35°, 60°

Input

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

Output

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

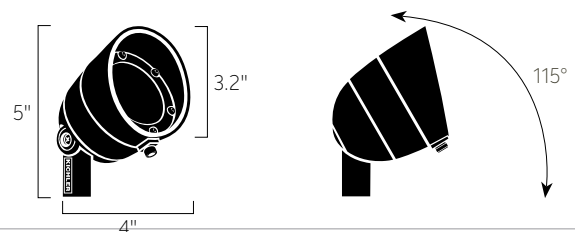
Optics

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 Brass
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INSTALLATION INFORMATION

Lumens	AC Voltage (VA)			DC Voltage (W)		
	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

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

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

2 Product Finish:

AZT = Textured Architectural Bronze
BKT = Black
CBR = Centennial Brass

3 Color Temperature:

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

Example: 16150 CBR 30

1 6 1 5 0

C B R

3 0

Item Number	16150			16151			16152		
Beam Angle	10° Spot			35° Flood			60° Wide Flood		
Max Candela	3867			527			221		
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	16153			16154			16155		
Beam Angle	10° Spot			35° Flood			60° Wide Flood		
Max Candela	5213			738			282		
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	16156			16157			16158		
Beam Angle	10° Spot			35° Flood			60° Wide Flood		
Max Candela	9236			1298			514.4		
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.

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
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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