



# 12V Integrated LED All-Purpose Recessed Light

## More options than ever.

Use the Kichler 12V Integrated LED All-Purpose Recessed Light practically anywhere to create a dynamic lighting effect. Versatile and functional, this landscape light can be embedded in concrete to mark a path, installed over a patio to deliver ambient light, or in the ground to uplight trees or walls for beauty and safety. Add on one of our accessory tops for more application possibilities and to create various lighting effects.



16142SS, CBR  
Cowl



16143CBR, SS  
Side Fire  
Sconce



16148SS, CBR  
Single  
Opening



16144CBR, SS  
2-Way  
Opening



16145SS, CBR  
4-Way  
Opening



16146CBR, SS  
Louver



16149SS, CBR  
Honeycomb



16147CBR, SS  
Square Trim

### 12V Integrated LED All-Purpose Recessed Light offers versatile and functional landscape lighting



**Sealed and fully encapsulated** to safeguard from water ingress and the outdoor elements – helping to extend the life of the product.



**2,000-volt fixture surge protection** protects against power surges and irregularities.



**Versatile IP68 rated** design provides a dust-tight housing that can protect against water submersion.

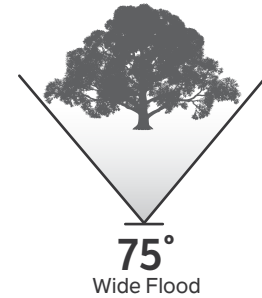
**Dynamic lighting options** for illuminating walkways, driveways or patios, step lights and much more. Fits any standard 1.5" Schedule 40 or 80 PVC and comes with an installation sleeve and spring retention clips.

**PRODUCT ORDERING GUIDE**

Ordering Guide (product number breakdown)	<b>1 Item Number for Wattage/VA, Delivered Lumens &amp; Efficacy:</b> 16140 = 2W/3.5VA, 100 lm, 50 lm/W 16141 = 3.5W/5.5VA, 200 lm, 57 lm/W	<b>2 Product Finish:</b> CBR = Centennial Brass SS = Stainless Steel	<b>3 Color Temperature:</b> 27 = 2700K, Warm White 30 = 3000K, Pure White
Example: 16140 CBR 30	1 6 1 4 0 - - - - -	C B R - - -	3 0 - -

16140CBR27 16140SS27 16141CBR27 16141SS27 20° Narrow Spot 2700K - Warm White	16140CBR30 16140SS30 16141CBR30 16141SS30 20° Narrow Spot 3000K - Pure White	16140CBR27 16140SS27 16141CBR27 16141SS27 40° Flood 2700K - Warm White	16140CBR30 16140SS30 16141CBR30 16141SS30 40° Flood 3000K - Pure White	16140CBR27 16140SS27 16141CBR27 16141SS27 75° Wide Flood 2700K - Warm White	16140CBR30 16140SS30 16141CBR30 16141SS30 75° Wide Flood 3000K - Pure White
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**BEAM SPREAD**



**PHOTOMETRICS**

Item	16140			
Beam	20° Narrow Spot			
Candela	Max Candela: 358.52			
Distance	Foot-candles	100lm	Beam Width	
20'	0.9		8.95'	
18'	1.1		8.05'	
16'	1.4		7.16'	
14'	1.8		6.26'	
12'	2.5		5.37'	
10'	3.6		4.47'	
8'	5.6		3.58'	
6'	10		2.68'	
4'	22.4		1.79'	
2'	89.6		0.89'	

Item	16140			
Beam	40° Flood			
Candela	Max Candela: 170.85			
Distance	Foot-candles	100lm	Beam Width	
20'	0.4		16.62'	
18'	0.5		14.96'	
16'	0.7		13.3'	
14'	0.9		11.64'	
12'	1.2		9.97'	
10'	1.7		8.31'	
8'	2.7		6.65'	
6'	4.7		4.99'	
4'	10.6		3.32'	
2'	42.6		1.66'	

Item	16140			
Beam	75° Wide Flood			
Candela	Max Candela: 67.58			
Distance	Foot-candles	100lm	Beam Width	
20'	0.2		34.36'	
18'	0.2		30.92'	
16'	0.3		27.49'	
14'	0.3		24.05'	
12'	0.5		20.62'	
10'	0.7		17.18'	
8'	1.1		13.74'	
6'	1.9		10.31'	
4'	4.2		6.87'	
2'	16.8		3.44'	

Item	16141			
Beam	20° Narrow Spot			
Candela	Max Candela: 358.52			
Distance	Foot-candles	200lm	Beam Width	
20'	1.5		9.92'	
18'	1.8		8.93'	
16'	2.3		7.94'	
14'	3		6.94'	
12'	4.1		5.95'	
10'	5.9		4.96'	
8'	9.3		3.97'	
6'	16.5		2.98'	
4'	37.1		1.98'	
2'	148.6		0.99'	

Item	16141			
Beam	40° Flood			
Candela	Max Candela: 170.85			
Distance	Foot-candles	200lm	Beam Width	
20'	0.8		14.75'	
18'	1		13.27'	
16'	1.2		11.8'	
14'	1.6		10.32'	
12'	2.1		8.85'	
10'	3.1		7.37'	
8'	4.8		5.9'	
6'	8.6		4.42'	
4'	19.2		2.95'	
2'	77		1.47'	

Item	16141			
Beam	75° Wide Flood			
Candela	Max Candela: 67.58			
Distance	Foot-candles	200lm	Beam Width	
20'	0.3		29.3'	
18'	0.4		26.37'	
16'	0.5		23.44'	
14'	0.7		20.51'	
12'	1		17.58'	
10'	1.4		14.65'	
8'	2.2		11.72'	
6'	3.9		8.79'	
4'	8.7		5.86'	
2'	34.8		2.93'	

### DIMENSIONS



### FINISH OPTIONS



**CBR** - Centennial Brass



**SS** - Stainless Steel

### PERFORMANCE

	16140	16141
Lumen Output	100 lm	200 lm
Input Voltage	9V-15V	9V-15V
Power (VA) @ 15V AC	3.5VA	5.5VA
Power (W) @ 15V DC	2W	3.5W
Efficacy (lm/W @ DC)	50 lm/W	57 lm/W
Halogen Equivalents	10W	20W

### SPECIFICATIONS

#### Fixture

Light Source	Integrated LED
Number of LEDs	1 High Output Discrete LED
Color Temperature	2700K, 3000K
Color Rendering Index	80+
Beam Angles	20°, 40°, 75°
Binning	3 Step
Fixture can be used	UP or DOWN position
Drive Over Rated	Yes

#### Input

Input Voltage Range	9-15V AC or DC with no loss in light output
Input Frequency	47-63Hz
Input Current	1A (100 lm), 2A Max (200 lm) @ 9V AC
Inrush Current	3A Max
Efficiency	> 50 lm/W @ 12VAC
Power Factor	> 0.7 @ 15V

### Environmental

Environmental Protection Rating	Wet, IP68
Operation Ambient Temperature	-25°C - +40°C
Expected Life Time (L70)	50K Hours

### Mechanical & Housing Specification

Diameter (top)	2.25"
Height (fixture)	2.25"
Width (body)	1.5"
Height (body)	1.75"
Height (top)	0.25"
Housing Material	Stainless Steel
Housing Color & Surface	CBR Brass, SS Stainless Steel
Weight	.94 LBS

### Lens Material

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

### Body

304 Stainless Steel body, 304 Stainless Steel or Brass tops, 304 Stainless Steel Retention Clips

### Wire

18AWG, SJT-W, 105°C, 300V, 72" usable length.

### Optics

Polycarbonate T.I.R. lens. 3 field changeable beam spread optics included: 40° installed, 20° and 75° included as accessories.

### Included Accessories

Includes 20°, 40°, and 75° optics, 2 gel-filled wire nuts, Locknut, PVC sleeve and spring expandable retention clip. Fits any standard 1.5" Schedule 40 or 80 PVC.



### Optional Accessories

Cowl	16142CBR, SS	Louver	16146CBR, SS
Side Fire	16143CBR, SS	Honeycomb Louver	16149CBR, SS
1-Way Top	16148CBR, SS	Square Trim	16147CBR, SS
2-Way Top	16144CBR, SS	Frosted Lens	16180FRO
4-Way Top	16145CBR, SS	Ground Stake	16182BK

### LOAD CHART

Power (VA)	Wire Gauge / Length (ft/m) Load Chart			
	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	<b>Consult Technical Support</b>			

**TROUBLE SHOOTING**

<b>Fixture does not illuminate</b>	Verify power connections. Review installation guide for installation problem. Ensure manual reset breaker has not been tripped.
<b>Fixture turns off</b>	Verify power connections. Review installation guide for installation problems. Ensure manual reset breaker has not been tripped. Check voltage drop at fixture.
<b>Fixture trips breaker</b>	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 Listed. Low Voltage Landscape Lighting Systems.

CSA C22.2#250.7 Listed.

FCC Part 15, subpart B, Class B

**WARRANTY**

Backed by our 10 year limited warranty. Visit [Kichler.com/Warranty](https://www.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.
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. 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](https://www.kichler.com/APS), reach out to us at [layouts@kichler.com](mailto: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.