



HOT! 2021 LANDSCAPE LIGHTING

HOT 2021 LANDSCAPE LIGHTING WITH SPEC SHEETS



LED Landscape Residential | Commercial

KICHLER



MICHAEL ESTRIN

908-722-9980 • MICHAEL@ESTRIN.CO

ESTRIN ZIRKMAN SALES

17 SOUTH MAIN STREET SUITE 3 • MANVILLE, NJ 08835

Ground Landscape Lighting



KICHLER LIGHTING

16154AZT27

Qty: 1

2700K 300 Lumen 35 Degree Flood Textured Architectural...
Textured Architectural Bronze Finish
Landscape Light

KICHLER LIGHTING

16024CBR30

Qty: 1

VLO 3000K LED In-Ground 35 Degree Beam Angle Accent Light...
Centennial Brass Finish
Landscape Light



Ground Landscape Lighting (Continued)



KICHLER LIGHTING

16022BKT30

Qty: 1

VLO 3000K 6x5 LED Flood Textured Black
Textured Black Finish
Landscape Light

KICHLER LIGHTING

16019CBR30

Qty: 1

VLO 3000K 35 Degree Large Flood Centennial Brass
Centennial Brass Finish
Landscape Light



Path Landscape Lighting



KICHLER LIGHTING

15820CBR30

Qty: 1

Stepped Dome 12V 3000K Path Light Centennial Brass
Centennial Brass Finish
Landscape Light

KICHLER LIGHTING

15805BKT27R

Qty: 1

Shallow Shade Small 2700K LED Path Light Textured Black
Textured Black Finish
Landscape Light



Path Landscape Lighting (Continued)



KICHLER LIGHTING

15870CBR27

Qty: 1

12V LED 2700K 6" Dome Path Light Centennial Brass
Centennial Brass Finish
Landscape Light



KICHLER LIGHTING

15810CBR30

Qty: 1

12V LED 3000K 8" Dome Path Light, Centennial Brass
Centennial Brass Finish
Landscape Light

Hardscape



KICHLER LIGHTING

16101SD27

Qty: 1

12V 2700K LED 6" Hardscape Textured Sand
Sand Finish
Landscape Light

KICHLER LIGHTING

16102AZT30

Qty: 1

12V 3000K LED 12" Hardscape Textured Architectural Bronze
Textured Architectural Bronze Finish
Landscape Light



Transformer



KICHLER LIGHTING

15PL100AZT

Qty: 1

Plus Series 100W Transformer Textured Architectural Bronze
Textured Architectural Bronze Finish
Landscape Light

KICHLER LIGHTING

15PR100SS

Qty: 1

Pro Series 100W Transformer Stainless Steel
Stainless Steel Finish
Landscape Light



KICHLER LIGHTING

15PR300SS

Qty: 1

Pro Series 300W Transformer Stainless Steel
Stainless Steel Finish
Landscape Light



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

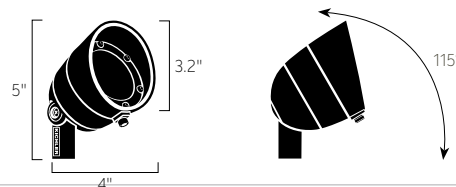
Optics

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 |
|--|--|--|

KICHLER

12V Integrated LED Accent Light 16150-16158

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 |

Visit Kichler.com/AccentLED



12V Integrated LED Accent Light 16150-16158

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.

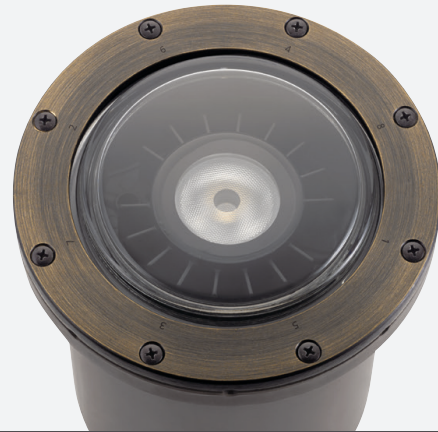
Consult Kichler Advanced Product Solutions for additional product support and design layouts by visiting Kichler.com/APS.



Visit Kichler.com/VLOaccent

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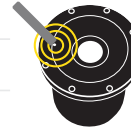


VLO 12V LED In-Ground Accent

One light, three lumen levels.

Our VLO In-Ground Accent fixture is equipped with the Lumen Effects System, which allows you to easily switch between three lumen outputs: 350, 550, or 850, with the use of the Magnetic Key. Its field configurable design allows for customization based on the needs of the application.

| Variable Lumen Output (VLO) Adjustment | | Lumens |
|--|---------------------|--------|
| Level 1 | Flashes one time | 350 lm |
| Level 2* | Flashes two times | 550 lm |
| Level 3 | Flashes three times | 850 lm |



**Factory setting*

VLO 12V LED In-Ground 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.



Versatile IP67 rated design provides protection against dust particles and temporary submersion in case of flooding.



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



Drive-over rated for static loads up to 4600lbs. Great for driveways, walkways, and entrances.



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



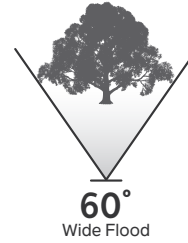
6,000-volt system surge protection protects against power surges and irregularities, especially when paired with one of our transformers.

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PRODUCT ORDERING GUIDE

| | | | |
|--|--|--|---|
| <p>Ordering Guide (product number breakdown)</p> <p><i>Example:</i> 16024 CBR 30</p> | <p>1 Item Number for Fixture & Beam Angle: 16023 = 15° Narrow Spot 16024 = 35° Flood 16025 = 60° Wide Flood</p> <p style="text-align: center;"><u>1</u> <u>6</u> <u>0</u> <u>2</u> <u>4</u></p> | <p>2 Product Finish: CBR = Centennial Brass</p> <p style="text-align: center;"><u>C</u> <u>B</u> <u>R</u></p> | <p>3 Color Temperature: 27 = 2700K, Warm White 30 = 3000K, Pure White</p> <p style="text-align: center;"><u>3</u> <u>0</u></p> |
|--|--|--|---|

BEAM SPREAD



PHOTOMETRICS

| | | | | | |
|--|--|--|--|---|---|
| 16023CBR27 15° Narrow Spot 2700K - Warm White | 16023CBR30 15° Narrow Spot 3000K - Pure White | 16024CBR27 35° Flood 2700K - Warm White | 16024CBR30 35° Flood 3000K - Pure White | 16025CBR27 60° Wide Flood 2700K - Warm White | 16025CBR30 60° Wide Flood 3000K - Pure White |
|--|--|--|--|---|---|

| LOW LUMENS | Item | 16023 (Low - 350 lm) | | | Item | 16024 (Low - 350 lm) | | | Item | 16025 (Low - 350 lm) | | |
|------------|----------|----------------------|--|------------|----------|----------------------|--|------------|----------|----------------------|--|------------|
| | Beam | 15° Narrow Spot | | | Beam | 35° Flood | | | Beam | 60° Wide Flood | | |
| | Candela | Max Candela: 3699 | | | Candela | Max Candela: 883 | | | Candela | Max Candela: 287 | | |
| | Distance | Foot-candles | | Beam Width | Distance | Foot-candles | | Beam Width | Distance | Foot-candles | | Beam Width |
| | 60' | 0.8 | | 15.8' | 60' | 0.2 | | 35.5' | 60' | 0.1 | | 82.5' |
| | 50' | 1.1 | | 13.2' | 50' | 0.3 | | 29.6' | 50' | 0.1 | | 68.7' |
| | 40' | 1.7 | | 10.5' | 40' | 0.4 | | 23.7' | 40' | 0.1 | | 55.0' |
| | 30' | 3.1 | | 7.9' | 30' | 0.7 | | 17.8' | 30' | 0.2 | | 41.2' |
| | 20' | 6.9 | | 5.3' | 20' | 1.6 | | 11.8' | 20' | 0.5 | | 27.5' |
| | 10' | 27.6 | | 2.6' | 10' | 6.4 | | 5.9' | 10' | 2.0 | | 13.7' |
| | 5' | 110.3 | | 1.3' | 5' | 25.8 | | 3.0' | 5' | 8.1 | | 6.9' |

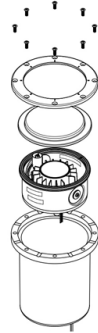
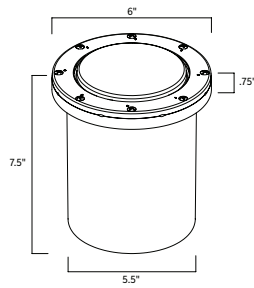
| MID LUMENS | Item | 16023 (Mid - 550 lm) | | | Item | 16024 (Mid - 550 lm) | | | Item | 16025 (Mid - 550 lm) | | |
|------------|----------|----------------------|--|------------|----------|----------------------|--|------------|----------|----------------------|--|------------|
| | Beam | 15° Narrow Spot | | | Beam | 35° Flood | | | Beam | 60° Wide Flood | | |
| | Candela | Max Candela: 5651 | | | Candela | Max Candela: 1344 | | | Candela | Max Candela: 441 | | |
| | Distance | Foot-candles | | Beam Width | Distance | Foot-candles | | Beam Width | Distance | Foot-candles | | Beam Width |
| | 60' | 1.2 | | 15.8' | 60' | 0.3 | | 35.5' | 60' | 0.1 | | 82.5' |
| | 50' | 1.7 | | 13.2' | 50' | 0.4 | | 29.6' | 50' | 0.1 | | 68.7' |
| | 40' | 2.6 | | 10.5' | 40' | 0.6 | | 23.7' | 40' | 0.2 | | 55.0' |
| | 30' | 4.7 | | 7.9' | 30' | 1.1 | | 17.8' | 30' | 0.3 | | 41.2' |
| | 20' | 10.5 | | 5.3' | 20' | 2.5 | | 11.8' | 20' | 0.8 | | 27.5' |
| | 10' | 42.1 | | 2.6' | 10' | 9.8 | | 5.9' | 10' | 3.1 | | 13.7' |
| | 5' | 168.6 | | 1.3' | 5' | 39.2 | | 3.0' | 5' | 12.4 | | 6.9' |

| HIGH LUMENS | Item | 16023 (High - 850 lm) | | | Item | 16024 (High - 850 lm) | | | Item | 16025 (High - 850 lm) | | |
|-------------|----------|-----------------------|--|------------|----------|-----------------------|--|------------|----------|-----------------------|--|------------|
| | Beam | 15° Narrow Spot | | | Beam | 35° Flood | | | Beam | 60° Wide Flood | | |
| | Candela | Max Candela: 7913 | | | Candela | Max Candela: 1858 | | | Candela | Max Candela: 601 | | |
| | Distance | Foot-candles | | Beam Width | Distance | Foot-candles | | Beam Width | Distance | Foot-candles | | Beam Width |
| | 60' | 1.6 | | 15.8' | 60' | 0.4 | | 35.5' | 60' | 0.1 | | 82.5' |
| | 50' | 2.4 | | 13.2' | 50' | 0.5 | | 29.6' | 50' | 0.2 | | 68.7' |
| | 40' | 3.7 | | 10.5' | 40' | 0.8 | | 23.7' | 40' | 0.3 | | 55.0' |
| | 30' | 6.6 | | 7.9' | 30' | 1.5 | | 17.8' | 30' | 0.5 | | 41.2' |
| | 20' | 14.8 | | 5.3' | 20' | 3.4 | | 11.8' | 20' | 1.1 | | 27.5' |
| | 10' | 59.0 | | 2.6' | 10' | 13.6 | | 5.9' | 10' | 4.2 | | 13.7' |
| | 5' | 236.1 | | 1.3' | 5' | 54.2 | | 3.0' | 5' | 16.9 | | 6.9' |

VLO 12V LED In-Ground Accent

Additional Specs

DIMENSIONS



Mechanical & Housing Specification

| | |
|-------------------------|----------------------------------|
| Diameter/Height | 6" x 7.5" |
| Fixture Rotation Range | 355° Horizontal - ± 30° Vertical |
| Housing Material | PPS Plastic, C360 Brass trim |
| Housing Color & Surface | Centennial Brass - CBR |
| Weight | 5.5 lb |

PERFORMANCE

| Output Position | Level 1 | Level 2 | Level 3 |
|----------------------|---------|---------|---------|
| Lumen Output | 350 lm | 550 lm | 850 lm |
| Input Voltage | 9V-15V | 9V-15V | 9V-15V |
| Power (VA) @ 12V AC | 8VA | 11.75VA | 16.1VA |
| Power (W) @ 12V DC | 5.3W | 8.3W | 12W |
| Efficacy (lm/W @ DC) | 66 lm/W | 66 lm/W | 71 lm/W |
| Halogen Equivalents | 35W | 50W | 90W |

AVAILABLE FINISH



CBR - Centennial Brass

SPECIFICATIONS

Fixture

| | |
|-----------------------|-------------------|
| Number of LEDs | 1 High Output COB |
| Color Temperature | 2700K, 3000K |
| Color Rendering Index | 80+ |
| Beam Angles | 15°, 35°, 60° |
| Binning | 3 Step |

Input

| | |
|-----------------|-----------------------|
| Input Frequency | 47 - 63Hz |
| Input Current | 1A max @ 12VAC |
| Inrush Current | 16A max |
| Efficiency | Up to 71 lm/W @ 12VAC |
| Power Factor | 0.74 @ 12VAC |

Environmental

| | |
|---------------------------------|---------------|
| Environmental Protection Rating | Wet IP67 |
| Operation Ambient Temperature | -25°C - +40°C |
| Lumen Maintenance (L70) | 50,000 Hours |

FIXTURE

Glass Lens

Tempered, shock resistance borosilicate glass with high tolerance for thermal expansion and stress. Static load up to 4600 lbs.

Body

Brown PPS plastic.

Wire

18 AWG, SPT-1W 105°C, 300V, 60' of usable length.

Optics

Custom polycarbonate TIR lens optics provide smooth, uniform light distribution to eliminate glare and hotspots with clean and crisp center-to-edge uniformity.

Included Accessories

2 Replacement Screws, 2 Gel-Filled Wire Nuts, and Magnetic Key.

LOAD CHART

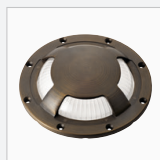
| Power (VA) | Wire Gauge / Length (ft/m) Load Chart | | | |
|------------|---------------------------------------|-------------|------------|------------|
| | 10 AWG | 12 AWG | 14 AWG | 16 AWG |
| 0-20 VA | 1860'/567 m | 1150'/351 m | 730'/223 m | 450'/137 m |
| 40 VA | 930'/283 m | 580'/177 m | 370'/113 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 | Consult Technical Support | | | |

OPTIONAL ACCESSORIES



Side Fire
16093CBR

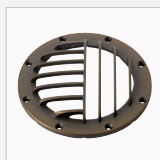
Includes plastic dome lens that directs light out of the accessory opening for superior distribution.



Four-Way
16094CBR



Cowl
16095CBR



Rock Guard
16096CBR



Concrete Kit
16099BK



Lens Clip
16097BK

Lens Clip works with lenses: 16072AMB, 16072GRN, 16072FRO, 16072RD, 16072HGN, 16091FRO Beam Expander and 16075BK Hexcell Louver.

Vandal Proof Hardware 16099BK not shown.

VLO 12V LED In-Ground Accent

16023CBR-16025CBR

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.

Contact: layouts@kichler.com



WARRANTY

Backed by our 10 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.
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, 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



12V LED Large Flood Light with Variable Lumen Output (VLO) 16022



| | |
|----------|-----------|
| PROJECT: | ORDERING: |
| TYPE: | COMMENTS: |

OVERVIEW

The VLO Flood Light is unsurpassed in both style and performance. The VLO combines advanced LED and driver 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.

FEATURES

- High lumens in small body
- Variable lumen output
- Advanced optics provide superb center to edge uniformity
- Designed with an extra wide beam angle for wash or wide flood applications.
- Complete sealed system for improved reliability
- Advanced ESD surge protection (6 kV)
- IP66 rated

PERFORMANCE

| Output Position | Level 1 | Level 2 | Level 3 |
|---------------------|---------|---------|---------|
| Lumen output | 500 | 675 | 865 |
| Input voltage | 9-15 | 9-15 | 9-15 |
| Power (VA) @ 15VAC | 11 | 14 | 18 |
| Power (W) @ 15VDC | 7 | 9 | 12 |
| Efficacy (Lm/W @DC) | 75 | 75 | 72 |

SPECIFICATIONS

Fixture

| | |
|-----------------------|--|
| Light Source | Integrated LED |
| Number of LEDs | 1 High Output COB |
| Color Temperature | 2700K, 3000K |
| Color Rendering Index | 80 |
| Beam Angles | NEMA 6x5 (126 degrees wide by 88 degrees tall) |
| Binning | 3 Step |
| Orientation | Fixture can be used in UP or DOWN position |

Input

| | |
|---------------------|---|
| Input Voltage Range | 9 – 15V AC or DC with no loss in light output |
| Input Frequency | 47 – 63Hz |
| Efficiency | 72L/W @ 15VDC |
| Power Factor | > 0.7 @ 15VAC |

Output

| | |
|------------------------|-----------------------|
| Lumen Level 3 (high) | 865 |
| Lumen Level 2 (medium) | 675 |
| Lumen Level 1 (low) | 500 (factory setting) |

Environmental

| | |
|---------------------------------|---------------|
| Environmental Protection Rating | Wet, IP66 |
| Operation Ambient Temperature | -25°C - +40°C |
| Expected Life Time (L70) | 50K Hours |

Mechanical & Housing Specification

| | |
|-------------------------|--------------------|
| Length | 7.07" / 154 mm |
| Width | 5.93" / 69 mm |
| Height | 7.17" / 106 mm |
| Housing Material | Cast Aluminum |
| Housing Color & Surface | AZT/BKT |
| Weight Alum | 3.95 lbs / 1.79 kg |

FIXTURE

Glass Lens

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

Body

A380 Aluminum

Wire

18 AWG, SPT-1W, 105°C, 300V, 48" usable length

Optics

Custom reflector optic

Included Accessories

Includes 8" slotted in-ground stake, 2 gel-filled wire nuts and lumen switching magnetic key.

AVAILABLE FINISHES

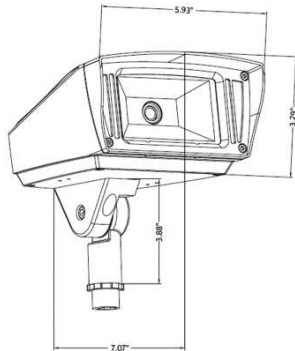


LD18030 082118 v5



12V LED Large Flood Light with Variable Lumen Output (VLO) 16022

DIMENSIONS



PHOTOMETRIC

| VLO Flood - 126° x 88° | | | | | | | | |
|------------------------|--------------|------------|---------------------|--------------|------------|------------------|--------------|------------|
| HIGH - 865 Lumens | | | MEDIUM - 675 Lumens | | | LOW - 500 Lumens | | |
| Ft. Away | Foot Candles | Beam Width | Ft. Away | Foot Candles | Beam Width | Ft. Away | Foot Candles | Beam Width |
| 2' | 12.40 | 5.6 | 2' | 9.45 | 5.6 | 2' | 7.00 | 5.6 |
| 4' | 6.20 | 11.2 | 4' | 4.72 | 11.2 | 4' | 3.50 | 11.2 |
| 8' | 3.10 | 22.4 | 8' | 2.36 | 22.4 | 8' | 1.75 | 22.4 |
| 12' | 2.07 | 33.7 | 12' | 1.57 | 33.7 | 12' | 1.17 | 33.7 |
| 24' | 1.03 | 67.3 | 24' | 0.79 | 67.3 | 24' | 0.58 | 67.3 |
| 36' | 0.69 | 101.0 | 36' | 0.52 | 101.0 | 36' | 0.39 | 101.0 |
| 48' | 0.52 | 134.6 | 48' | 0.39 | 134.6 | 48' | 0.29 | 134.6 |
| 60' | 0.41 | 168.3 | 60' | 0.31 | 168.3 | 60' | 0.23 | 168.3 |

INSTALLATION INFORMATION

| Type Supply | Voltage Level | Dimming Level | | |
|-----------------|---------------|---------------|------|------|
| | | 1 | 2 | 3 |
| AC Voltage (VA) | 9V | 10.5 | 13.5 | 17.5 |
| | 12V | 11 | 14 | 17.5 |
| | 15V | 11 | 14.5 | 18 |
| DC Voltage (W) | 9V | 7.5 | 10 | 13 |
| | 12V | 7 | 9 | 12 |
| | 15V | 7 | 9 | 12 |

| Power (W/VA) | 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 | | | |

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.

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

- Chip binning ranges: (2700K 80+ CRI: 3 step), (3000K 80+ CRI: 3 step). LED chip data measured in accordance to IES LM-80
- 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.
- Do not extend beyond the recommended maximum run length.
- Recommend product be installed with 10 or 12 gauge wire.
- 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.
- 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.
- Do not modify product beyond instructions or warranty will be void.

WARRANTY

See Kichler.com/Warranty for warranty details.

Consult Kichler Advanced Product Solutions for additional support at 844-452-5437.



12V LED Large Accent Light with Variable Lumen Output (VLO) 16018-16020



| | |
|-----------------|------------------|
| PROJECT: | ORDERING: |
| TYPE: | COMMENTS: |

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.

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 1 | Level 2 | Level 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 |
| Color Temperature | 2700K, 3000K |
| Color Rendering Index | 80+ |
| Beam Angles | 15°, 35°, 60° |
| Binning | 3 Step |
| Fixture can be used in UP or DOWN position | |

Input

| | |
|---------------------|--|
| Input Voltage Range | 9 – 15V 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) | 600 |
| 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 |
| Housing Material | Aluminum, Brass |
| 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

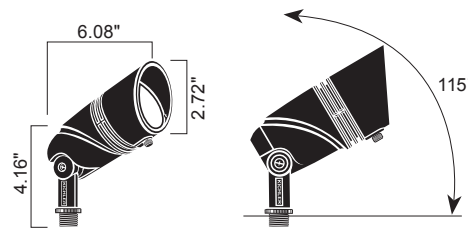
Optics

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

- AZT**
Textured Architectural Bronze
- BKT**
Textured Black
- CBR**
Centennial Brass
- WHT**
Textured White (35° only)



17-LD-4897 122117 v8

12V LED Large Accent Light with Variable Lumen Output (VLO) 16018-16020

INSTALLATION INFORMATION

| Type Supply | Voltage Level | Dimming Level | | |
|-----------------|---------------|---------------|----|------|
| | | 1 | 2 | 3 |
| AC Voltage (VA) | 9V | 8 | 12 | 17 |
| | 12V | 9 | 13 | 17.5 |
| | 15V | 9 | 13 | 18 |
| DC Voltage (W) | 9V | 6 | 9 | 12.5 |
| | 12V | 5.5 | 8 | 12 |
| | 15V | 5.5 | 8 | 12 |

| 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 | | | |

| | | | |
|---|---|--|---|
| <p>Ordering Guide (product number breakdown)</p> <p><i>Example:</i> 16018 CBR 30</p> | <p>1 Item Number for Fixture Size & Beam Angle:</p> <p>16018 = Small 15° Spot 16019 = Small 35° Flood 16020 = Small 60° Wide Flood</p> <p style="text-align: center;"><u>1 6 0 1 8</u></p> | <p>2 Product Finish:</p> <p>AZT = Textured Architectural Bronze BKT = Black CBR = Centennial Brass WHT = Textured White (only in 35°)</p> <p style="text-align: center;"><u>C B R</u></p> | <p>3 Color Temperature:</p> <p>27 = 2700K, Warm White 30 = 3000K, Pure White</p> <p style="text-align: center;"><u>3 0</u></p> |
|---|---|--|---|

| | Item Number | 16018 (low) | | 16019 (low) | | 16020 (low) | | | | |
|-------------|-------------|-----------------|---------------------|-------------------|-------------|---------------------|-------------------|------------|---------------------|-------------------|
| | | Beam Angle | Max Candela | Beam Angle | Max Candela | Beam Angle | Max Candela | | | |
| LOW LUMENS | | 15° Spot | 3521 | 35° Flood | 948 | 60° Wide Flood | 396 | | | |
| | | Ft. Away | Foot-candles | Beam Width | Ft. | Foot-candles | Beam Width | Ft. | Foot-candles | Beam Width |
| | | 8' | 40.2 | 2.1 | 4' | 37.3 | 2.5 | 4' | 17.1 | 4.9 |
| | | 12' | 17.9 | 3.2 | 8' | 9.3 | 4.9 | 8' | 4.3 | 9.8 |
| | | 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 | |
| MID LUMENS | | 15° Spot | 4925 | 35° Flood | 1315 | 60° Wide Flood | 560 | | | |
| | | Ft. Away | Foot-candles | Beam Width | Ft. | Foot-candles | Beam Width | Ft. | Foot-candles | Beam Width |
| | | 8' | 74.7 | 2.1 | 4' | 65.6 | 2.5 | 4' | 29.1 | 4.9 |
| | | 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 | |
| HIGH LUMENS | | 15° Spot | 6576 | 35° Flood | 1816 | 60° Wide Flood | 750 | | | |
| | | Ft. Away | Foot-candles | Beam Width | Ft. | Foot-candles | Beam Width | Ft. | Foot-candles | Beam Width |
| | | 8' | 100.8 | 2.1 | 4' | 86 | 2.5 | 4' | 40.8 | 4.9 |
| | | 12' | 44.8 | 3.2 | 8' | 21.5 | 4.9 | 8' | 10.2 | 9.8 |
| | | 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 | |



12V LED Large Accent Light with Variable Lumen Output (VLO) 16018-16020

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.

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

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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ST17LD4897

Stepped Dome 12V 3000K Path Light Centennial Brass
15820CBR30 (Centennial Brass)

Project Name: _____
 Location: _____
 Type: _____
 Qty: _____
 Comments: _____



Certifications/Qualifications

www.kichler.com/warranty

Dimensions

| | |
|--------|--------|
| Height | 22.50" |
| Length | 6.25" |
| Width | 6.25" |

Electrical

| | |
|-------------------------|-------------|
| Operating Voltage Range | 9-15VAC/VDC |
| Voltage | 12VAC/VDCV |

Mounting/Installation

| | |
|-----------------|-----------|
| Connector | Yes |
| Wire Connectors | Wire Nuts |

Photometrics

| | |
|-----------------------|-------|
| Color Rendering Index | 80 |
| Kelvin Temperature | 3000K |

Primary Lamping

| | |
|---------------------|------------|
| Lamp Included | Integrated |
| Light Source | LED |
| Max or Nominal Watt | 4W |
| Max Wattage/Range | 4W |




Product/Ordering Information

| | |
|--------|--------------|
| SKU | 15820CBR30 |
| Finish | Brass |
| UPC | 783927569507 |

Specifications

| | |
|----------|-------|
| Material | BRASS |
|----------|-------|

Additional Finishes

-  Centennial Brass
-  Copper
-  Textured Architectural Bronze

Kichler
 7711 East Pleasant Valley Road Cleveland, Ohio 44131-8010
 Toll free: 866.558.5706 or kichler.com

Notes:
 1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
 2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.



KICHLER®

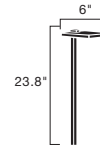
LED Shallow Shade - small



| |
|--------------|
| PROJECT: |
| TYPE: |
| ORDERING # : |
| COMMENTS: |




FEATURES

- A design only made possible by today's LED technology, this fixture will surely captivate its audience with its unobtrusive styling. Coordinates with the 15806.
- Cast Aluminum Housing
- 4 W / 5.8 VA Light Output, Integrated LEDs and Driver, 2950K (-150/+175), High CRI
- 9V - 15V AC/DC
- 30" of useable #18-2, SPT-1W leads. Cable connector supplied.
- 8" In-ground stake



ORDERING INFORMATION

EXAMPLE: 15805BKT (Product # & Finish)

| PRODUCT | FINISH | WATTAGE | LIGHT SOURCE | WIRING | MOUNTING ACCESSORIES (INCLUDED) | OPTIONS & ACCESSORIES | | | | | | | | | | | | | | | | | | | | |
|---|--|---|--|---|---------------------------------|--|---------------------|-----|----|----|----|----|----|----|----|----|-------------|------|------|-----|------|-----|-----|-----|-----|---|
| 15805 Dimensions: 6" W x 23.8" L | Cast Aluminum BKT - Textured Black  | 4 W / 5.8 VA Note: Not for use with electronic transformers. | Integrated LEDs and Driver 2950K (-150 / +175) High CRI | 30" of usable #18-2, SPT-1W leads. Cable connector supplied. | 8" In-ground stake | 15601AZT - Cast Aluminum Surface Mounting Flange w/ Bronze Finish, Neoprene Gasket For Watertight Seal 15601BKT - Cast Aluminum Surface Mounting Flange w/ Black Finish, Neoprene Gasket For Watertight Seal 15601BBR - Cast Brass Surface Mounting Flange, Neoprene Gasket For Watertight Seal  Flange For Tree / Surface Mounting 15607AZT - Textured Bronze Finish 15607BKT - Textured Black Finish 15607BBR - Bronzed Brass Finish  | | | | | | | | | | | | | | | | | | | | |
| Fixture Photometric (fc) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Distance from Light</td> <td>0'</td> <td>1'</td> <td>2'</td> <td>3'</td> <td>4'</td> <td>5'</td> <td>6'</td> <td>7'</td> <td>8'</td> </tr> <tr> <td>Footcandles</td> <td>21.2</td> <td>12.1</td> <td>5.3</td> <td>1.56</td> <td>.23</td> <td>.33</td> <td>.11</td> <td>.06</td> <td>-</td> </tr> </table> | | | | | | | Distance from Light | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | Footcandles | 21.2 | 12.1 | 5.3 | 1.56 | .23 | .33 | .11 | .06 | - |
| Distance from Light | 0' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | | | | | | | | | | | | | | | | | |
| Footcandles | 21.2 | 12.1 | 5.3 | 1.56 | .23 | .33 | .11 | .06 | - | | | | | | | | | | | | | | | | | |

NOTES



For Warranty Information,
please visit www.landscapelighting.com

We reserve the right to revise the design or components of any product due to parts availability or change in UL standards, without assuming any obligation or liability to modify any products previously manufactured, and without notice.

7711 E. Pleasant Valley Road, Cleveland, OH 44131 ph:(216) 573-1000 fax:(216) 573-2270 email:sales@kichler.com web:landscapelighting.com

12V LED 2700K 6" Dome Path Light Centennial Brass
15870CBR27 (Centennial Brass)

Project Name: _____
Location: _____
Type: _____
Qty: _____
Comments: _____



Certifications/Qualifications

| | |
|-----------------|--|
| Location Rating | Wet |
| Prop65 | Yes |
| | www.kichler.com/warranty |

Dimensions

| | |
|--------|--------|
| Height | 22.75" |
| Length | 22.75" |
| Width | 6.25" |

Electrical

| | |
|-------------------------|-----------------|
| Input Voltage | Dual (120/140)V |
| Operating Voltage Range | 9-15 VAC |
| Voltage | 12V |

Mounting/Installation

| | |
|-----------------|-----------|
| Connector | Yes |
| Wire Connectors | Wire Nuts |

Photometrics

| | |
|----------------------------------|-------|
| Color Rendering Index | 80 |
| Delivered Efficacy (Lumens/Watt) | 83 |
| Delivered Lumens | 250 |
| Kelvin Temperature | 2700K |

Primary Lamping

| | |
|---------------------|------------|
| Lamp Included | Integrated |
| Lamp Type | LED |
| Light Source | LED |
| Max or Nominal Watt | 3.00 |
| Volt-Amperes (VA) | 4.50 |




Product/Ordering Information

| | |
|--------|--------------|
| SKU | 15870CBR27 |
| Finish | Brass |
| UPC | 783927576758 |

Specifications

| | |
|----------|-------|
| Material | BRASS |
|----------|-------|

Additional Finishes

-  Centennial Brass
-  Textured Architectural Bronze
-  Textured Black

Kichler
7711 East Pleasant Valley Road Cleveland, Ohio 44131-8010
Toll free: 866.558.5706 or kichler.com

Notes:
1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.



12V LED 3000K 8" Dome Path Light, Centennial Brass
15810CBR30 (Centennial Brass)

Project Name: _____
Location: _____
Type: _____
Qty: _____
Comments: _____



Certifications/Qualifications

| | |
|-----------------|--|
| Location Rating | Wet |
| Prop65 | Yes |
| | www.kichler.com/warranty |

Dimensions

| | |
|--------|--------|
| Height | 22.50" |
| Length | 22.50" |
| Width | 8.25" |

Electrical

| | |
|-------------------------|-----------------|
| Input Voltage | Dual (120/140)V |
| Operating Voltage Range | 9-15 VAC |
| Voltage | 12V |

Mounting/Installation

| | |
|-----------------|-----------|
| Connector | Yes |
| Wire Connectors | Wire Nuts |

Photometrics

| | |
|----------------------------------|-------|
| Color Rendering Index | 80 |
| Delivered Efficacy (Lumens/Watt) | 83 |
| Delivered Lumens | 250 |
| Kelvin Temperature | 3000K |

Primary Lamping

| | |
|------------------------|------------|
| Lamp Included | Integrated |
| Lamp Type | LED |
| Light Source | LED |
| Max or Nominal Watt | 3.00 |
| # of Bulbs/LED Modules | 8 |
| Volt-Amperes (VA) | 4.50 |

Product/Ordering Information

| | |
|--------|--------------|
| SKU | 15810CBR30 |
| Finish | Brass |
| UPC | 783927577045 |

Specifications

| | |
|----------|-------|
| Material | BRASS |
|----------|-------|

Additional Finishes

- Centennial Brass
- Textured Architectural Bronze
- Textured Black

Kichler
7711 East Pleasant Valley Road Cleveland, Ohio 44131-8010
Toll free: 866.558.5706 or kichler.com

Notes:
1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.



12V Integrated LED Hardscape

16100-16103



| | |
|-----------------|------------------|
| PROJECT: | ORDERING: |
| TYPE: | COMMENTS: |

FEATURES

- The adjustable fixture can pivot 180° for direct to surface install and pivot 270° when installed with mounting bracket. Usable range is installation dependent.
- Offering a custom optical lens that diffuses light to deliver smooth, uniform output while eliminating hotspots and glare that may reflect off walls or installation surfaces.
- Can be installed either as a traditional downlight or as an uplight, on or off mounting bracket.
- Housing cavity and electronics are encapsulated to help keep all critical components protected against the elements.
- 4,000-volt system surge protection helps guard against system power surges and irregularities.
- Customizable mounting bracket with breakaway corner tabs that allow for easier installations in retrofit applications.
- Bracket is designed as an installation template with centering notch and screw pilot holes for installation guidance when mounting off bracket.

PERFORMANCE

| Fixture | 16100 | 16101 | 16102 | 16103 |
|--------------------|-------|-------|-------|-------|
| Fixture Length | 3.5" | 6" | 12" | 18" |
| Lumen Output | 10 | 40 | 85 | 125 |
| Input Voltage | 9-15 | 9-15 | 9-15 | 9-15 |
| Power (W) @ 12VAC | 0.3 | 0.9 | 1.9 | 2.7 |
| Power (VA) @ 12VAC | 0.6 | 1.5 | 2.9 | 3.8 |
| Efficacy (L/W) | 43 | 45 | 45 | 46 |

SPECIFICATIONS

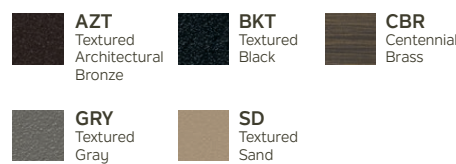
| Fixture | |
|--|--|
| Light Source | Integrated LED |
| Color Temperature | 2700K, 3000K |
| Color Rendering Index | 80+ |
| Binning | 3 Step |
| Beam Angle | 108° |
| Fixture can be used in UP or DOWN position | |
| Input | |
| Input Voltage Range | 9 – 15V AC or DC with no loss in light output |
| Input Frequency | 47 – 63Hz |
| Power Factor | .6 @ 12V |
| Lumens | |
| 3.5" Hardscape (16100) | 10 |
| 6" Hardscape (16101) | 40 |
| 12" Hardscape (16102) | 85 |
| 18" Hardscape (16103) | 125 |

| Environmental | |
|------------------------------------|--------------------------|
| Environmental Protection Rating | Wet IP67 |
| Operation Ambient Temperature | -25°C - +40°C |
| Expected Life Time (L70) | 50K Hours |
| Mechanical & Housing Specification | |
| Length/Width/Height: | |
| 16100 | 3.5" x .78" x .75" |
| 16101 | 6" x .78" x .75" |
| 16102 | 12" x .78" x .75" |
| 16103 | 18" x .78" x .75" |
| Bracket Depth | 3" |
| Housing Material | Aluminum, Brass |
| Housing Color & Surface | AZT, BKT, CBR, GRY, SD |
| Weight: | |
| 16100 | Alum 0.4Lb, Brass 0.55Lb |
| 16101 | Alum 0.45Lb, Brass 0.8Lb |
| 16102 | Alum 0.9Lb, Brass 1.3Lb |
| 16103 | Alum 1.2Lb, Brass 1.65Lb |

FIXTURE

| Body | |
|--|--|
| A380 Aluminum, C360 Brass casting | |
| Wire | |
| 18 AWG, SPT-1W, 105°C, 300V, 84" usable length | |
| Optics | |
| Custom optics with a diffused lens provides smooth, uniform light distribution to eliminate glare and hotspots | |
| Included Accessories | |
| 304 stainless steel masonry bracket, off-bracket mounting kit, and 2 gel-filled wire nuts | |

AVAILABLE FINISHES



12V Integrated LED Hardscape 16100-16103

| 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 | Consult Technical Support | | | |

| GENERAL FIXTURE SPACING GUIDELINE | | | | |
|-----------------------------------|--|------------|-------------|-------------|
| Item | 16100 (3.5") | 16101 (6") | 16102 (12") | 16103 (18") |
| Mounting Height | Recommended Spacing (center-to-center of fixtures) | | | |
| 6"-18" | 3'-4' | 4'-5' | 6'-8' | 6'-8' |
| 24" | 3'-4' | 4'-5' | 6'-8' | 6'-8' |
| 36" | 3'-4' | 4'-6' | 6'-8' | 6'-8' |
| 48" | 3'-4' | 4'-6' | 6'-8' | 6'-8' |
| 60" | 3'-4' | 4'-6' | 6'-8' | 6'-8' |

Highlighted values are optimal selections for mounting height application
Tip: Use centering notch on mounting bracket to aid in spacing layout during installation.

| | | | |
|---|--|--|--|
| Ordering Guide (product number breakdown) | 1 Item Number for Fixture Size | 2 Product Finish: | 3 Color Temperature: |
| | 16100 = 3.5" Hardscape 16101 = 6" Hardscape 16102 = 12" Hardscape 16103 = 18" Hardscape | AZT = Textured Architectural Bronze BKT = Textured Black CBR = Centennial Brass GRY = Textured Gray SD = Textured Sand | 27 = 2700K, Warm White 30 = 3000K, Pure White |
| Example: 16101 CBR 30 | <u>1</u> <u>6</u> <u>1</u> <u>0</u> <u>1</u> | <u>C</u> <u>B</u> <u>R</u> | <u>3</u> <u>0</u> |

FOOT-CANDLES (108° BEAM ANGLE)

| 16100 - 3.5" Hardscape | | | | | | |
|------------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 17.96 | 0.44 | 0.01 | 0.00 | 0.00 |
| | 1 ft. | 4.49 | 1.14 | 0.11 | 0.01 | 0.02 |
| | 2 ft. | 1.12 | 0.76 | 0.28 | 0.09 | 0.03 |
| | 3 ft. | 0.50 | 0.42 | 0.25 | 0.13 | 0.06 |

| 16101 - 6" Hardscape | | | | | | |
|----------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 72.60 | 0.88 | 0.00 | 0.00 | 0.00 |
| | 1 ft. | 18.15 | 3.78 | 0.22 | 0.01 | 0.03 |
| | 2 ft. | 4.54 | 2.88 | 0.94 | 0.23 | 0.05 |
| | 3 ft. | 2.02 | 1.65 | 0.93 | 0.42 | 0.16 |

| 16102 - 12" Hardscape | | | | | | |
|-----------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 143.2 | 2.68 | 0.02 | 0.00 | 0.00 |
| | 1 ft. | 35.81 | 8.31 | 0.67 | 0.06 | 0.11 |
| | 2 ft. | 8.95 | 5.86 | 2.08 | 0.58 | 0.17 |
| | 3 ft. | 3.98 | 3.29 | 1.93 | 0.92 | 0.39 |

| 16103 - 18" Hardscape | | | | | | |
|-----------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 216.4 | 3.25 | 0.01 | 0.00 | 0.00 |
| | 1 ft. | 54.10 | 12.28 | 0.81 | 0.05 | 0.13 |
| | 2 ft. | 13.53 | 8.88 | 3.07 | 0.79 | 0.20 |
| | 3 ft. | 6.01 | 4.99 | 2.90 | 1.36 | 0.56 |



12V Integrated LED Hardscape

16100-16103

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.

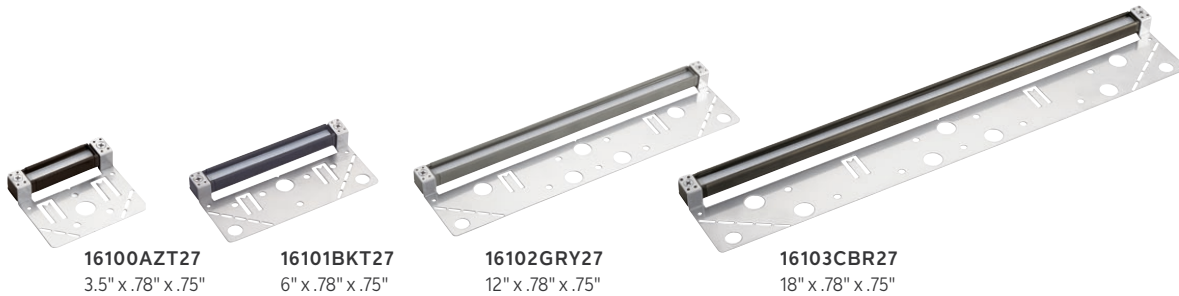
Contact: layouts@kichler.com

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

See Kichler.com/Warranty for warranty details.

Consult Kichler Advanced Product Solutions for additional product support and design layouts by visiting Kichler.com/APS.



16100AZT27
3.5" x .78" x .75"

16101BKT27
6" x .78" x .75"

16102GRY27
12" x .78" x .75"

16103CBR27
18" x .78" x .75"

Visit Kichler.com/Hardscape

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KICHLER

12V Integrated LED Hardscape

16100-16103



| | |
|----------|-----------|
| PROJECT: | ORDERING: |
| TYPE: | COMMENTS: |

FEATURES

- The adjustable fixture can pivot 180° for direct to surface install and pivot 270° when installed with mounting bracket. Usable range is installation dependent.
- Offering a custom optical lens that diffuses light to deliver smooth, uniform output while eliminating hotspots and glare that may reflect off walls or installation surfaces.
- Can be installed either as a traditional downlight or as an uplight, on or off mounting bracket.
- Housing cavity and electronics are encapsulated to help keep all critical components protected against the elements.
- 4,000-volt system surge protection helps guard against system power surges and irregularities.
- Customizable mounting bracket with breakaway corner tabs that allow for easier installations in retrofit applications.
- Bracket is designed as an installation template with centering notch and screw pilot holes for installation guidance when mounting off bracket.

PERFORMANCE

| Fixture | 16100 | 16101 | 16102 | 16103 |
|--------------------|-------|-------|-------|-------|
| Fixture Length | 3.5" | 6" | 12" | 18" |
| Lumen Output | 10 | 40 | 85 | 125 |
| Input Voltage | 9-15 | 9-15 | 9-15 | 9-15 |
| Power (W) @ 12VAC | 0.3 | 0.9 | 1.9 | 2.7 |
| Power (VA) @ 12VAC | 0.6 | 1.5 | 2.9 | 3.8 |
| Efficacy (L/W) | 43 | 45 | 45 | 46 |

SPECIFICATIONS

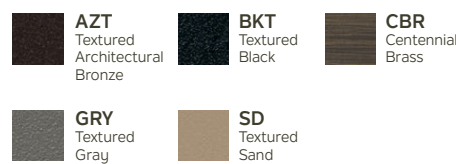
| Fixture | |
|--|--|
| Light Source | Integrated LED |
| Color Temperature | 2700K, 3000K |
| Color Rendering Index | 80+ |
| Binning | 3 Step |
| Beam Angle | 108° |
| Fixture can be used in UP or DOWN position | |
| Input | |
| Input Voltage Range | 9 – 15V AC or DC with no loss in light output |
| Input Frequency | 47 – 63Hz |
| Power Factor | .6 @ 12V |
| Lumens | |
| 3.5" Hardscape (16100) | 10 |
| 6" Hardscape (16101) | 40 |
| 12" Hardscape (16102) | 85 |
| 18" Hardscape (16103) | 125 |

| Environmental | |
|------------------------------------|--------------------------|
| Environmental Protection Rating | Wet IP67 |
| Operation Ambient Temperature | -25°C - +40°C |
| Expected Life Time (L70) | 50K Hours |
| Mechanical & Housing Specification | |
| Length/Width/Height: | |
| 16100 | 3.5" x .78" x .75" |
| 16101 | 6" x .78" x .75" |
| 16102 | 12" x .78" x .75" |
| 16103 | 18" x .78" x .75" |
| Bracket Depth | 3" |
| Housing Material | Aluminum, Brass |
| Housing Color & Surface | AZT, BKT, CBR, GRY, SD |
| Weight: | |
| 16100 | Alum 0.4Lb, Brass 0.55Lb |
| 16101 | Alum 0.45Lb, Brass 0.8Lb |
| 16102 | Alum 0.9Lb, Brass 1.3Lb |
| 16103 | Alum 1.2Lb, Brass 1.65Lb |

FIXTURE

| Body | |
|--|--|
| A380 Aluminum, C360 Brass casting | |
| Wire | |
| 18 AWG, SPT-1W, 105°C, 300V, 84" usable length | |
| Optics | |
| Custom optics with a diffused lens provides smooth, uniform light distribution to eliminate glare and hotspots | |
| Included Accessories | |
| 304 stainless steel masonry bracket, off-bracket mounting kit, and 2 gel-filled wire nuts | |

AVAILABLE FINISHES



12V Integrated LED Hardscape

16100-16103

| 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 | Consult Technical Support | | | |

| GENERAL FIXTURE SPACING GUIDELINE | | | | |
|-----------------------------------|--|------------|-------------|-------------|
| Item | 16100 (3.5") | 16101 (6") | 16102 (12") | 16103 (18") |
| Mounting Height | Recommended Spacing (center-to-center of fixtures) | | | |
| 6"-18" | 3'-4' | 4'-5' | 6'-8' | 6'-8' |
| 24" | 3'-4' | 4'-5' | 6'-8' | 6'-8' |
| 36" | 3'-4' | 4'-6' | 6'-8' | 6'-8' |
| 48" | 3'-4' | 4'-6' | 6'-8' | 6'-8' |
| 60" | 3'-4' | 4'-6' | 6'-8' | 6'-8' |

Highlighted values are optimal selections for mounting height application
Tip: Use centering notch on mounting bracket to aid in spacing layout during installation.

| | | | |
|---|--|--|--|
| Ordering Guide (product number breakdown) | 1 Item Number for Fixture Size | 2 Product Finish: | 3 Color Temperature: |
| | 16100 = 3.5" Hardscape 16101 = 6" Hardscape 16102 = 12" Hardscape 16103 = 18" Hardscape | AZT = Textured Architectural Bronze BKT = Textured Black CBR = Centennial Brass GRY = Textured Gray SD = Textured Sand | 27 = 2700K, Warm White 30 = 3000K, Pure White |
| Example: 16101 CBR 30 | <u>1</u> <u>6</u> <u>1</u> <u>0</u> <u>1</u> | <u>C</u> <u>B</u> <u>R</u> | <u>3</u> <u>0</u> |

FOOT-CANDLES (108° BEAM ANGLE)

| 16100 - 3.5" Hardscape | | | | | | |
|------------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 17.96 | 0.44 | 0.01 | 0.00 | 0.00 |
| | 1 ft. | 4.49 | 1.14 | 0.11 | 0.01 | 0.02 |
| | 2 ft. | 1.12 | 0.76 | 0.28 | 0.09 | 0.03 |
| | 3 ft. | 0.50 | 0.42 | 0.25 | 0.13 | 0.06 |

| 16101 - 6" Hardscape | | | | | | |
|----------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 72.60 | 0.88 | 0.00 | 0.00 | 0.00 |
| | 1 ft. | 18.15 | 3.78 | 0.22 | 0.01 | 0.03 |
| | 2 ft. | 4.54 | 2.88 | 0.94 | 0.23 | 0.05 |
| | 3 ft. | 2.02 | 1.65 | 0.93 | 0.42 | 0.16 |

| 16102 - 12" Hardscape | | | | | | |
|-----------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 143.2 | 2.68 | 0.02 | 0.00 | 0.00 |
| | 1 ft. | 35.81 | 8.31 | 0.67 | 0.06 | 0.11 |
| | 2 ft. | 8.95 | 5.86 | 2.08 | 0.58 | 0.17 |
| | 3 ft. | 3.98 | 3.29 | 1.93 | 0.92 | 0.39 |

| 16103 - 18" Hardscape | | | | | | |
|-----------------------|-----------------|-------------------------------|-------|-------|-------|-------|
| Foot-candles | Mounting Height | Lateral distance from fixture | | | | |
| | | 0 | 1 ft. | 2 ft. | 3 ft. | 4 ft. |
| | 6 in. | 216.4 | 3.25 | 0.01 | 0.00 | 0.00 |
| | 1 ft. | 54.10 | 12.28 | 0.81 | 0.05 | 0.13 |
| | 2 ft. | 13.53 | 8.88 | 3.07 | 0.79 | 0.20 |
| | 3 ft. | 6.01 | 4.99 | 2.90 | 1.36 | 0.56 |



12V Integrated LED Hardscape

16100-16103

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

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/Hardscape

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KICHLER

TRANSFORMER - PLUS SERIES COLLECTION

Plus Series 100W Transformer Textured Architectural Bronze

15PL100AZT (Textured Architectural Bronze)

Project Name: _____
 Location: _____
 Type: _____
 Qty: _____
 Comments: _____



Certifications/Qualifications

www.kichler.com/warranty

Dimensions

| | |
|--------|--------|
| Height | 5.50" |
| Length | 19.00" |
| Width | 5.75" |

Electrical

| | |
|---------|------|
| Voltage | 12VV |
|---------|------|

Mounting/Installation

| | |
|------------------|----|
| Lead Wire Length | 72 |
|------------------|----|

Product/Ordering Information

| | |
|--------|--------------|
| SKU | 15PL100AZT |
| Finish | Bronze |
| UPC | 783927294379 |

Specifications

| | |
|----------------------|-------|
| Diffuser Description | None |
| Material | Steel |

Additional Finishes

- Textured Architectural Bronze
- Textured Architectural Bronze
- Textured Architectural Bronze
- Textured Architectural Bronze
- Textured Architectural Bronze

Kichler
 7711 East Pleasant Valley Road Cleveland, Ohio 44131-8010
 Toll free: 866.558.5706 or kichler.com

Notes:
 1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
 2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.



TRANSFORMER - PRO SERIES COLLECTION

Pro Series 100W Transformer Stainless Steel

15PR100SS (Stainless Steel)

Project Name: _____
 Location: _____
 Type: _____
 Qty: _____
 Comments: _____



Certifications/Qualifications

www.kichler.com/warranty

Dimensions

| | |
|--------|--------|
| Height | 5.50" |
| Length | 19.00" |
| Width | 5.75" |

Electrical

| | |
|---------|------|
| Voltage | 12VV |
|---------|------|

Mounting/Installation

| | |
|------------------|----|
| Lead Wire Length | 36 |
|------------------|----|

Product/Ordering Information

| | |
|--------|-----------------|
| SKU | 15PR100SS |
| Finish | Stainless Steel |
| UPC | 783927294386 |

Specifications

| | |
|----------------------|-----------------|
| Diffuser Description | None |
| Material | Stainless Steel |

Additional Finishes

- Stainless Steel
- Stainless Steel
- Stainless Steel
- Stainless Steel

Kichler
 7711 East Pleasant Valley Road Cleveland, Ohio 44131-8010
 Toll free: 866.558.5706 or kichler.com

Notes:
 1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
 2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.



TRANSFORMER - PRO SERIES COLLECTION

Pro Series 300W Transformer Stainless Steel

15PR300SS (Stainless Steel)

Project Name: _____
 Location: _____
 Type: _____
 Qty: _____
 Comments: _____



Certifications/Qualifications

www.kichler.com/warranty

Electrical

Voltage 12VV

Mounting/Installation

Lead Wire Length 36

Primary Lamping

Lamp Included Not Included

Product/Ordering Information

SKU 15PR300SS

Finish Stainless Steel

UPC 783927027175

Specifications

Material Stainless Steel

Additional Finishes

● Stainless Steel

● Stainless Steel

● Stainless Steel

● Stainless Steel

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