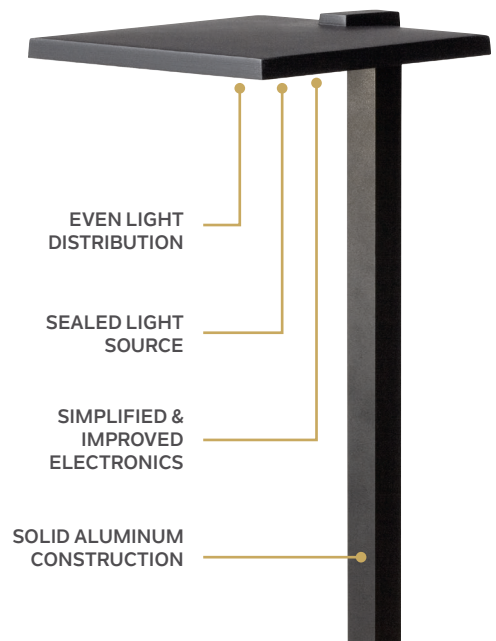# 12V Integrated LED Shallow Shade Path Lights

## New design and technology.

Redesigned and reimagined, our new shallow shade path lights offer an integrated LED light source and streamlined design. Fully sealed to safeguard from water ingression and outdoor elements, these path lights are certified through an independent 3rd-party lab – continuing to deliver the quality, reliability, and style you've come to appreciate from Kichler.

EVEN LIGHT DISTRIBUTION

SEALED LIGHT SOURCE

SIMPLIFIED & IMPROVED ELECTRONICS

SOLID ALUMINUM CONSTRUCTION

**12V integrated LED shallow shade path lights are designed to deliver the quality, reliability, and style we're known for.**

**BKT**

**Contemporary design** to blend in seamlessly with nature while spotlighting the surrounding style. Sleek and minimal, it's the perfect look for nearly any landscape.

**IP66**

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

**Fully sealed** to safeguard from water ingression and outdoor elements — helping to extend the life of the product.
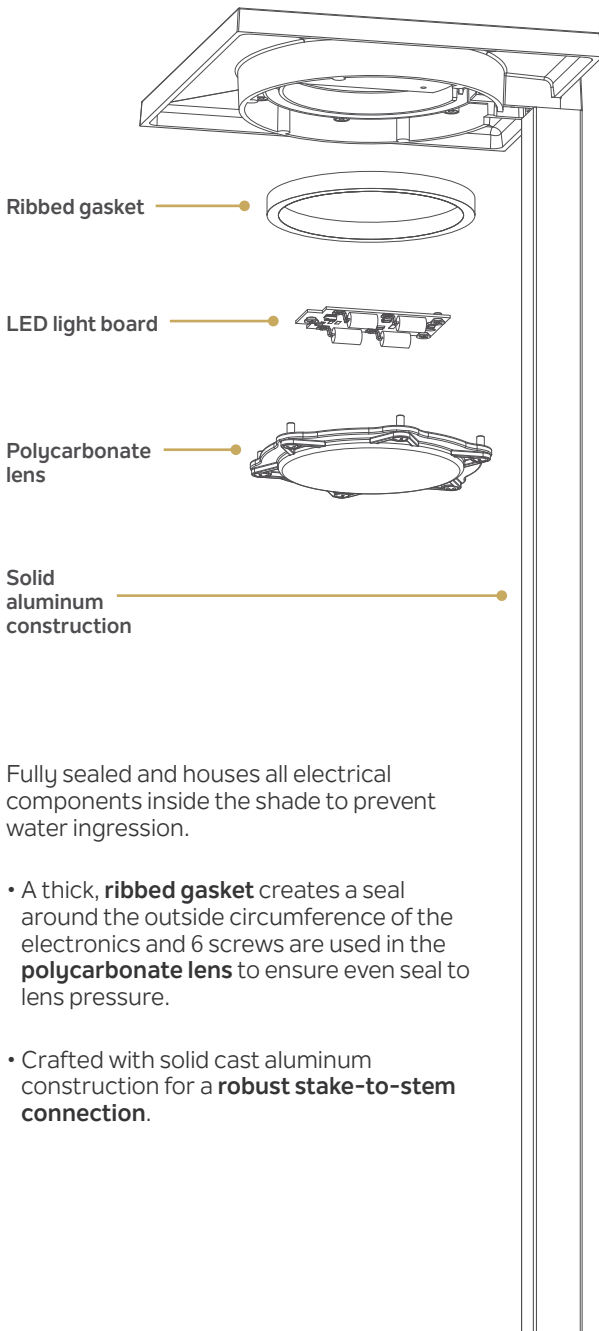
**2,000-volt system surge protection** protects against power surges and irregularities when paired with one of our transformers.

# KICHLER®

## PRODUCT ORDERING GUIDE

| Ordering Guide (product number breakdown) | **1** Item Number for Fixture & Beam Angle: | **2** Product Finish: | **3** Color Temperature: |
|---|---|---|---|
| | **16196** = Small Shallow Shade<br>**16197** = Large Shallow Shade | **BKT** = Textured Black | **27** = 2700K, Warm White<br>**30** = 3000K, Pure White |
| *Example:* 16196 BKT 30 | 1 6 1 9 6 | B K T | 3 0 |

| 6" Shade | **16196BKT27**<br>2700K – Warm White | **16196BKT30**<br>3000K – Pure White |
|---|---|---|
| 8" Shade | **16197BKT27**<br>2700K – Warm White | **16197BKT30**<br>3000K – Pure White |

## PRODUCT CONSTRUCTION



**Ribbed gasket**

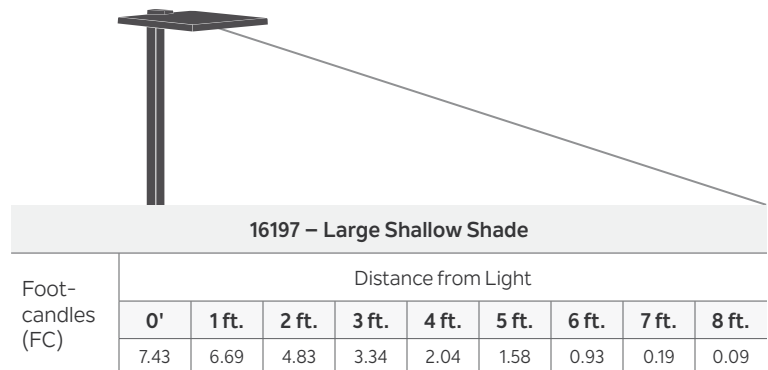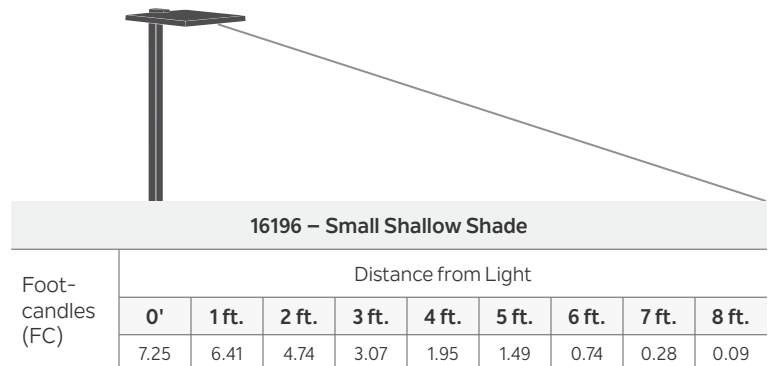**LED light board**

**Polycarbonate lens**

**Solid aluminum construction**

Fully sealed and houses all electrical components inside the shade to prevent water ingression.

- A thick, **ribbed gasket** creates a seal around the outside circumference of the electronics and 6 screws are used in the **polycarbonate lens** to ensure even seal to lens pressure.

- Crafted with solid cast aluminum construction for a **robust stake-to-stem connection**.

## PHOTOMETRICS



| | 16196 – Small Shallow Shade | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Foot-candles (FC) | Distance from Light | | | | | | | | |
| | **0'** | **1 ft.** | **2 ft.** | **3 ft.** | **4 ft.** | **5 ft.** | **6 ft.** | **7 ft.** | **8 ft.** |
| | 7.25 | 6.41 | 4.74 | 3.07 | 1.95 | 1.49 | 0.74 | 0.28 | 0.09 |



| | 16197 – Large Shallow Shade | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Foot-candles (FC) | Distance from Light | | | | | | | | |
| | **0'** | **1 ft.** | **2 ft.** | **3 ft.** | **4 ft.** | **5 ft.** | **6 ft.** | **7 ft.** | **8 ft.** |
| | 7.43 | 6.69 | 4.83 | 3.34 | 2.04 | 1.58 | 0.93 | 0.19 | 0.09 |

## DIMENSIONS

WIDTH 6in
DEPTH 6.5in

16196
6" Small
Shallow Shade

HEIGHT 24in

WIDTH 8in
DEPTH 8.5in

16197
8" Large
Shallow Shade

HEIGHT 24in

## PERFORMANCE

|  | 16196 – Small | 16197 – Large |
|---|---|---|
| Fixture Lumen Output | 2700K: 180lm | 2700K: 180lm |
|  | 3000K: 180lm | 3000K: 180lm |
| Input Voltage | 9V-15V | 9V-15V |
| Power (VA) @ 12V AC | 3.2VA | 3.2VA |
| Power (W) @ 12V AC | 2.1W | 2.1W |
| Efficacy (lm/W @ DC) | 2700K: 94 lm/w | 2700K: 94 lm/w |
|  | 3000K: 96 lm/w | 3000K: 99 lm/w |

## SPECIFICATIONS

### Fixture

Number of LEDs      5
Color Temperature      2700K, 3000K
Color Rendering Index      80+

### Input

Input Frequency      60Hz
Input Current      270mA
Power Factor      0.63 @ 12VAC

### Environmental

Environmental Protection Rating      Wet IP66
Operation Ambient Temperature      **16196:** -20°C - +40°C
     **16197:** -20°C - +40°C
Lumen Maintenance (L70)      40,000 Hours
System Surge Protection Rating      2KV

### Mechanical & Housing Specification

Length/Width/Height      **16196:** 6" W x 6.5" D x 24" H
     **16197:** 8" W x 8.5" D x 24" H
Weight      **16196:** Aluminum: 1.6 lbs
     **16197:** Aluminum: 2.2 lbs

## FINISH OPTIONS

**BKT –** Textured Black

## FIXTURE

### Body

Cast Aluminum, Textured Powder Coat finish (BKT)

### Wire

30" of useable #18-2, SPT-1W leads

### Included Accessories

8" slotted ground stake, gel-filled wire nuts

Required: Landscape Transformer, 12 gauge wire

### Optional Accessories

15601BKT – Surface Mounting Flange
15607BKT – Surface Mounting Bracket
15576 – 14" Stake
15276 – Power Post

## 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** | | | |

## TROUBLE SHOOTING

| | |
|---|---|
| **Fixture does not illuminate** | Verify power connections. Review installation guide for installation problem. Ensure manual reset breaker has not been tripped. |
| **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(s) are dim or flicker** | If you have dim or flickering lights at the end of your wire run, reduce the load by removing fixtures or shortening the wire run. |
| **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 Listed. Low Voltage Landscape Lighting Systems.

CSA C22.2#250.7 Listed.

FCC Part 15, subpart B, Class B

**LIMITED 15 YEAR WARRANTY**

### WARRANTY

Backed by our 15 year residential warranty and 10 year commercial 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.

### PRODUCT TECHNICAL SUPPORT

Have a product or installation question? Our team can provide you with the answers you are looking for. Contact us at **844-KICHLER (844-542-4537)** or email **techsupport@kichler.com** for assistance.

### LANDSCAPE LIGHTING, LAYOUT & DESIGN SERVICES

Need help preparing a layout? Visit **LightProRewards.com** to learn more.

See our entire line of path lights at **Kichler.com/landscape**

# KICHLER®