



15861 AZT, BBR, BKT - LED WALL WASH ACCENT LIGHT

Understanding LED Lighting

Understanding Watts and VA (volts x amps)

Kichler® Landscape LED drivers convert the 12V AC current to a DC current specified by the LED chip manufacturer. When electric power is converted from AC to DC, there are losses and changes to the electrical properties; these effects are known as the “Power Factor”.

In an LED lighting installation it is necessary to use the VA value of a fixture in order to compute and select a transformer with adequate power for the system. *For your convenience Kichler supplies the VA as well as the Wattage for each of the fixtures in our catalog.*

What does this mean to the system designer?

There are two areas to consider: the load on the transformer and Watts consumed according to the electric power company.

The load on the transformer

The “VA” (volts x amps) rating on Kichler Landscape products represents the value used when calculating the total system load. This VA number will help you determine the correct size transformer for an LED installation.

Example:

$$\text{Number of Fixtures} \times \text{VA value} = \text{Transformer Load Requirement}$$

$$(8) \text{ Fixtures} \times 12.2\text{VA ea.} = 97.8\text{VA}$$



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This LED system requires at least a 100 Watt transformer

The Watts consumed according to the power company

When determining the cost of ownership use the Watt rating of the LED fixture. This represents the actual electric consumption for which the homeowner will be billed.

Example:

$$\text{Number of Fixtures} \times \text{Watts} = \text{Actual Electric Consumption}$$

$$(8) \text{ Fixture} \times 8.5 \text{ Watts ea.} = 68 \text{ Watts}$$



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Description	Our Design Pro LED Wall Wash creates a low, even light spread that illuminates shrubs, plants and textured wall surfaces and silhouettes special details. Fully adjustable knuckle.																														
Ordering Guide & Finish	15861 AZT - Textured Architectural Bronze™ (Marine grade powder coat) 15861 BBR - Bronzed Brass 15861 BKT - Textured Black (Marine grade powder coat)																														
Housing	Cast Aluminum, Cast Brass																														
Light Source	3 Integrated High Output Nichia® LEDs, tightly binned for color uniformity, and constant current driver																														
Beam Spread	Vertical = 108° Horizontal = 111°																														
Color Temp. (CCT) & CRI	3000K (-200/+125) / 80s CRI																														
Power Usage at 12V AC Input VA and Watts	High 4 W, 5.8 VA Low 2.5 W, 4 VA Multiply fixture VA by the number of fixtures used to determine size of transformer																														
Operating Voltage Range	9V-15V AC/DC with no loss in output due to constant current technology																														
Lumen Maint.	Tested to an L-70 of 40,000 hours																														
Total Lumens & Efficacy	3000K = 140 Lm (High) 80 Lm (Low) 3000K = 35 Lm/W (High) 20 Lm/W (Low)																														
Wiring	64" of usable #18-2, SPT-1-W leads																														
Mounting Acces. Included	8" In-ground stake																														
Optional Acces.	15601 - Surface mounting flange 15607 - Surface mounting bracket 15647 - 90° Elbow																														
Fixture Photometric (fc) on High	<table border="1"> <thead> <tr> <th>Distance from Wall</th> <th>0'</th> <th>6"</th> <th>1'</th> <th>2'</th> <th>3'</th> <th>4'</th> <th>5'</th> <th>6'</th> <th>(Horizontal Distance from Center)</th> </tr> </thead> <tbody> <tr> <td>2"</td> <td>16.5</td> <td>12.3</td> <td>8.0</td> <td>2.6</td> <td>0.9</td> <td>0.2</td> <td>.00</td> <td>.00</td> <td></td> </tr> <tr> <td>4"</td> <td>4.4</td> <td>4.3</td> <td>3.8</td> <td>2.7</td> <td>1.7</td> <td>1.0</td> <td>0.7</td> <td>0.4</td> <td></td> </tr> </tbody> </table>	Distance from Wall	0'	6"	1'	2'	3'	4'	5'	6'	(Horizontal Distance from Center)	2"	16.5	12.3	8.0	2.6	0.9	0.2	.00	.00		4"	4.4	4.3	3.8	2.7	1.7	1.0	0.7	0.4	
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