



Spec Guide

# WingRail | Stack | 117



Direct lighting for library stack and display applications.



WingRail, direct or indirect, 370° rotation.

## Benefits & Features

### Minimal Profile, Robust Design

Asymmetric profile, 1.14 in x 2.12 in.

### Superior Light Quality & Performance

Output up to 1376 lm/ft (HO), 121 lm/W (HO). 90 CRI static & tunable white 2200K - 5000K. Custom ranges available upon request.

### Adaptive Power

Integral Power, full range dimming power for all protocols.

### Better Optics & Beam Control Options

Asymmetric distribution. White or black Baffle, EdgeSoft™ lens or diffuse lens and narrow optics available. Directional control with 360° rotation, angle gauge and lock.



Double-sided



Single-sided

## Build Your Specification

|               |  |  |  |           |              |
|---------------|--|--|--|-----------|--------------|
| <b>117-WG</b> |  |  |  | <b>ST</b> | <b>18</b> ▶▶ |
|---------------|--|--|--|-----------|--------------|

| System & Rail Type     | Single/Double Rail                               | System Length                                   | Rail Length  | Mounting        | Arm Length  |
|------------------------|--|---|--|-----------------|---|
| <b>117-WG</b> WingRail | <b>K1</b> Single-sided<br><b>K2</b> Double-sided | Specify overall system length in ft/in or M/mm. | <b>24</b> 24" (610mm)<br><b>36</b> 36" (914mm)<br><b>48</b> 48" (1219mm)<br><b>60</b> 60" (1524mm)<br><b>72</b> 72" (1829mm)<br><b>ZZ</b> Other rail length or layout (please specify)<br><br><i>See <a href="#">Rail Length Chart</a> for more details.</i><br><br><i>Custom lengths may result in light gaps on the fixture. See <a href="#">Rail Length Chart</a> for more details.</i> | <b>ST</b> Stack | <b>18</b> 18" arm (457mm)<br><b>ZZ</b> Other (please specify) |

|              |  |  |  |             |
|--------------|--|--|--|-------------|
| ▶▶ <b>IP</b> |  |  |  | <b>Z</b> ▶▶ |
|--------------|--|--|--|-------------|

| Power Location                             | Power Type  | Voltage   | Emergency Power   | LED Type              |
|--|---|---|---|-----------------------|
| Integral Power<br><b>IP</b> Integral Power | <b>AE</b> 0-10V, 1.0% Dimming<br><b>AT</b> 0-10V, 0.1% Dimming<br><b>AD</b> DALI, 0.1% Dimming<br><b>AX</b> DMX, 100-0% Dimming<br><b>AH</b> Hi-lume 1% EcoSystem, Soft On / Fade to Black Technology, LDE <sup>1</sup><br><b>AH2</b> ELV 1% 2-wire (Forward and Reverse Phase) | <b>1</b> 120v<br><b>2</b> 120V - 277V<br><b>X</b> Not Yet Specified | <b>0</b> No Emergency Power<br><b>ZZ</b> Emergency Power<br><i>(specify requirements)</i> | <b>Z</b> Zipper Board |

See [Power Guide](#) for driver features & limitations.

|    |  |  |  |  |
|----|--|--|--|--|
| ▶▶ |  |  |  |  |
|----|--|--|--|--|

| Lumen Output   | Color Temperature  | Optics   | Finish  | Options   |
|--|--|--|---|---|
| <b>LO</b> Low Output<br><b>SO</b> Standard Output<br><b>HO</b> High Output*<br><b>ZZ</b> Other (please specify)<br><br><i>See <a href="#">IES Files</a> page for details.</i><br><i>See <a href="#">Power Guide</a> for driver features &amp; limitations.</i> | <b>90+ CRI</b><br><b>27</b> 2700K<br><b>30</b> 3000K<br><b>35</b> 3500K<br><b>40</b> 4000K<br><br><b>ZZ</b> Other (please specify) | <b>Zipper Board (Z)</b><br><b>WB</b> White Baffle with EdgeSoft™<br><b>BB</b> Black Baffle with Edge Soft<br><b>C1</b> Clear with Edge Soft<br><b>D1</b> Diffuse | <b>AL</b> Clear Anodized<br><b>WH</b> White Painted<br><b>BL</b> Black Anodized<br><b>ZZ</b> Other (please specify) | <b>0</b> None<br><b>ZZ</b> Other (please specify) |

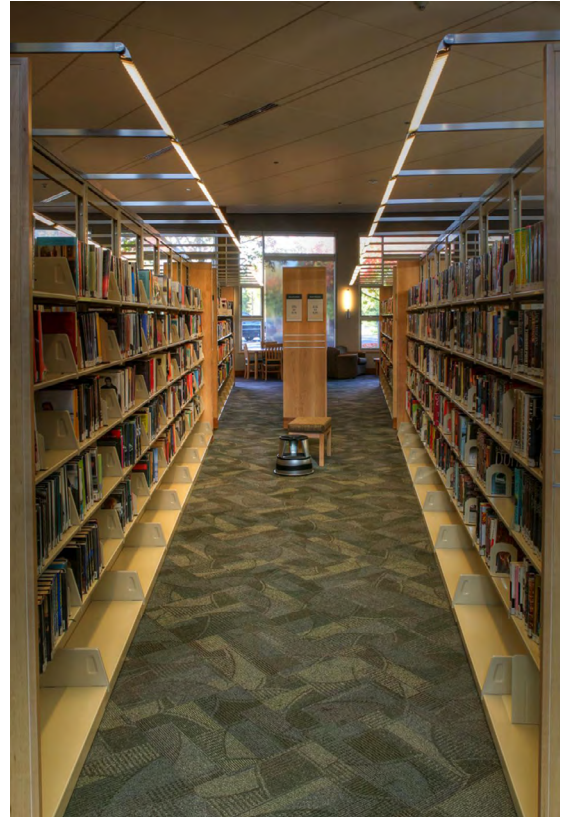
Standard 5 Year Limited Warranty. See details [here](#). Contact factory for options on Limited Warranties up to 20 years.

Listed to UL standards for damp location by a Nationally Recognized Testing Laboratory (NRTL) recognized by OSHA.

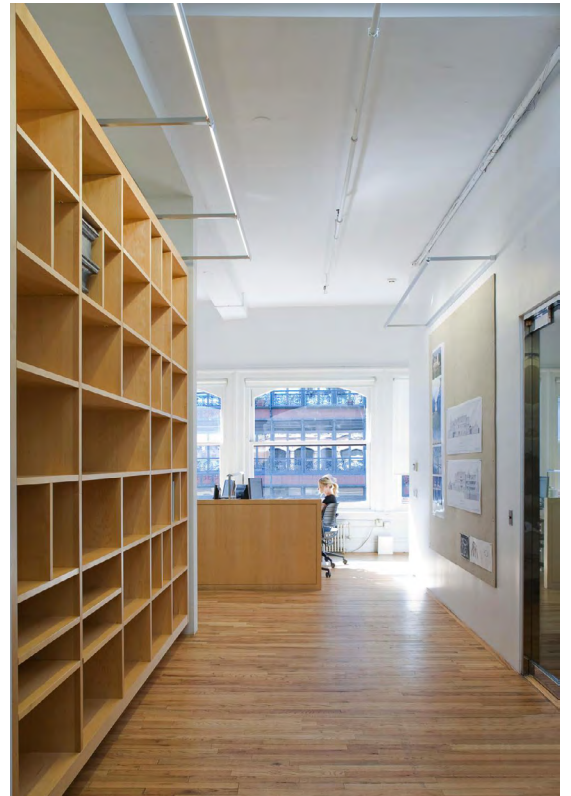
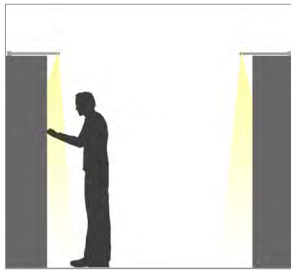


# Applications

## Library Stack and Display



Tualatin Public Library, Tualatin, OR



Andre Tchelistcheff Architects, New York, NY

## Declare Label

All Vode Lighting linear light fixtures proudly carry the Red List Approved designation.

See [International Living Future Institute](#) website for details.



# Declare.

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## Vode Adaptive Architectural Lighting Systems

### Vode Lighting LLC

**Final Assembly:** Sonoma, California, US  
**Life Expectancy:** 10+ Year(s)  
**End of Life Options:** Recyclable (100%)

**Ingredients:**

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Anodized Aluminum (6063-T5 Alloy); Steel; Small Electrical Component (RoHS)<sup>1</sup>; Copper; **Fluorinated Ethylene Propylene (masterbatch)**<sup>2</sup>; Polymethyl methacrylate (PMMA); Stainless Steel; Polyoxymethylene Copolymer (POM); Styrene-butadiene polymer, hydrogenated; Poly(methyl methacrylate/butyl acrylate/styrene) (PMMA/BA/S); Styrene/butadiene copolymer; Distillates; Polypropylene; Calcium carbonate; Polycarbonate; EVA Copolymer; Methyl methacrylate (MMA); Polyphenylene Oxide; Brass; Tin, Organic

<sup>1</sup>LBC Temp Exception RL-002 - Small Electrical Components  
<sup>2</sup>LBC Temp Exception RL-023 - Wire Sheathing Subject to NFPA 90A, NFPA 262, UL® 910

**Living Building Challenge Criteria:** Compliant

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**I-13 Red List:**

|   |                             |
|---|-----------------------------|
| <input type="checkbox"/> LBC Red List Free                | % Disclosed: 100% at 100ppm |
| <input checked="" type="checkbox"/> LBC Red List Approved | VOC Content: Not Applicable |
| <input type="checkbox"/> Declared                         |                             |

**I-10 Interior Performance:** Not Applicable  
**I-14 Responsible Sourcing:** Not Applicable

VDE-0001  
 EXP. 01 JAN 2025  
 Original Issue Date: 2018

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY  
 INTERNATIONAL LIVING FUTURE INSTITUTE™ [living-future.org/declare](http://living-future.org/declare)



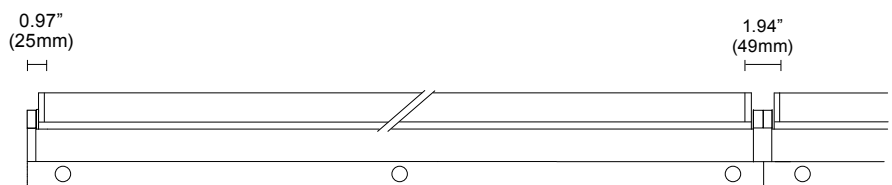
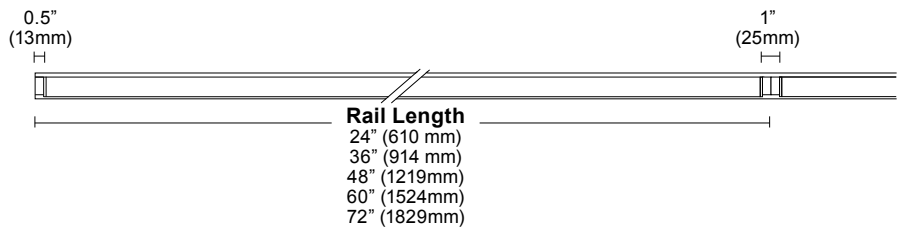
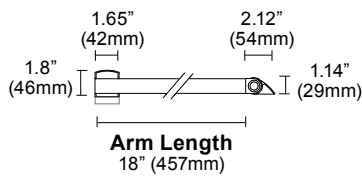
## Structure

|                       |   |
|-----------------------|---|
| Rail Lengths          | 24" (610mm), 36" (914mm), 48" (1219mm), 60" (1524mm), 72" (1829mm).                             |
| Rail Dimensions       | 1.14" (29mm) x 2.12" (54mm).  |
| Construction          | Extruded and machined 6063 aluminum.  |
| Mounting              | Single or double-sided stack mount to integral power housing.                                   |
| Arm Length            | 18" (457mm). Non-standard arm lengths available. Single-sided requires arm lengths 24" or less. |
| System Run Length     | 24" (610mm) minimum. Unlimited maximum.   |
| Operating Temperature | 32°F to 104°F (0°C to 40°C).  |
| Humidity              | 0-85%, non-condensing.  |

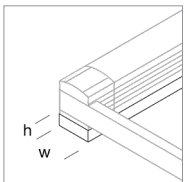
## Materials

|                        |  |
|------------------------|--|
| LED Board Construction | Aluminum core PCB, black LCP connectors, RoHS compliant.   |
| Lens                   | High-impact extruded acrylic glass (PMMA).   |
| Baffle                 | 6063 Aluminum, RoHS compliant painted finish.  |
| Power Cable            | Ø4mm, 18/2 AWG, Plenum (CMP) rated semi-rigid PVC or FEP, flame tested UL-910 ( <i>PVC free in 2020</i> )            |
| Cable Connectors       | Unfilled black nylon, rated UL 94 V-0, halogen free, PVC or FEP overmold, RoHS compliant ( <i>PVC free in 2020</i> ) |
| Integral Power Housing | Extruded and machined 6063 aluminum.   |

## Dimensions



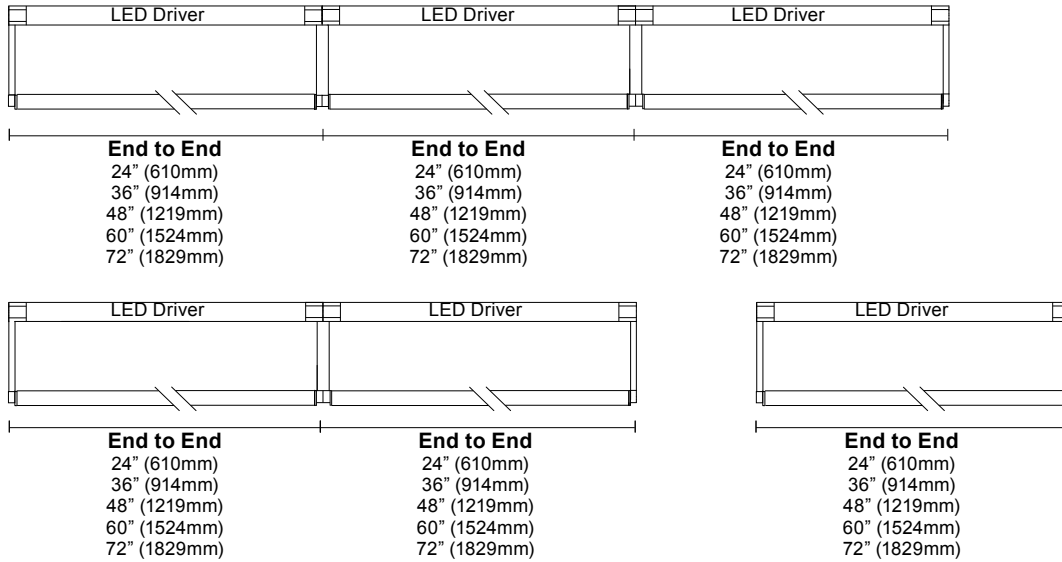
## Mounting Options



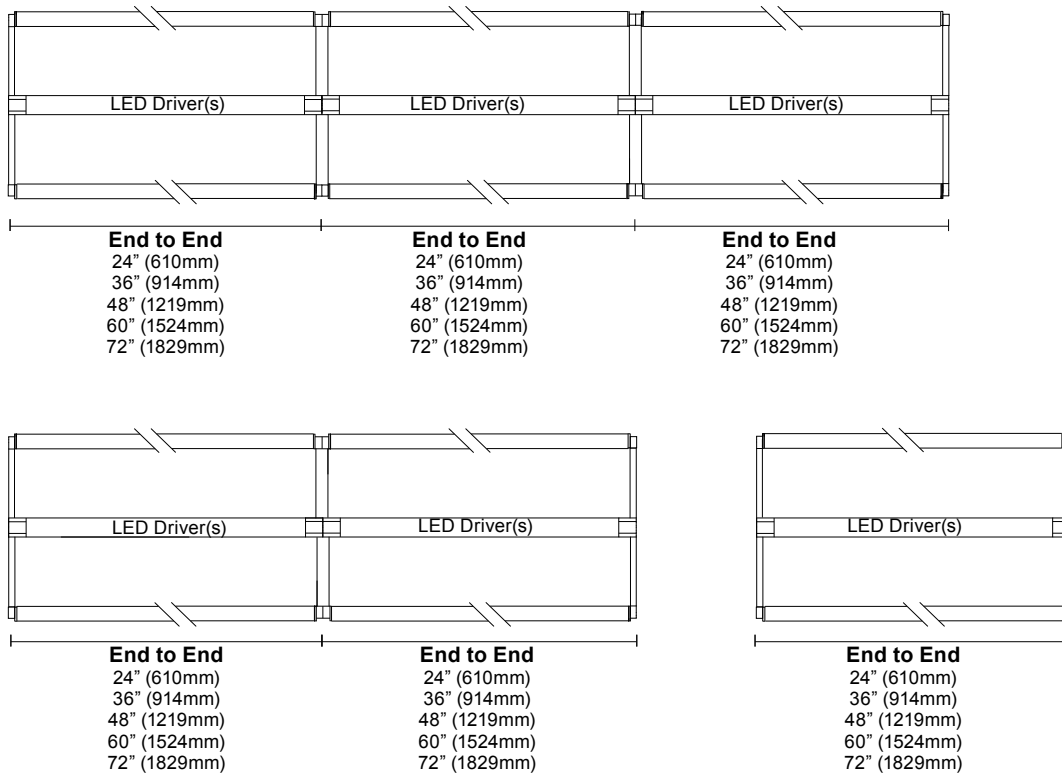
Vode Strut  
(provided with systems  
with multiple rail sections)  
h 0.8" (20mm)  
w 1.61" (41mm)

## Layout

### Single Sided (K1)



### Double Sided (K2)



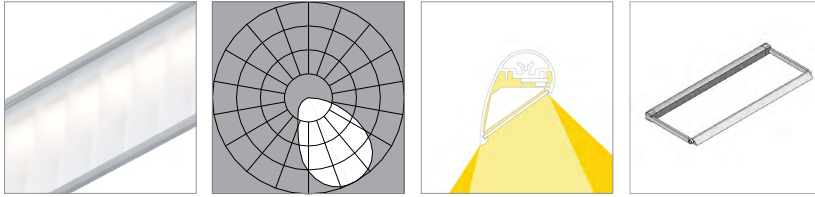
## Power and Controls

|                  |  |
|------------------|--|
| Power Type       | Class 2 (<60V output) constant current driver.   |
| Dimming Controls | Dimming (0.1%, 1%), 0-10V, DALI, DMX, Hi-lume 1% are available. See <a href="#">Power Guide</a> for details. |
| Input Voltage    | 120V - 277V, 50/60hz.  |
| Power Location   | Integral power. See <a href="#">Power Guide</a> for details.   |

## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

### White Baffle with EdgeSoft™ (WB)



L80 >60,000 hours

**90 CRI** (90min., 96 avg.)

| <b>Low Output (LO)</b>     | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 64    | 66    | 68    | 69    |
| Lumens per foot (305mm)    | 239   | 246   | 251   | 256   |
| Watts per foot (305mm)     | 3.8   | 3.8   | 3.8   | 3.8   |

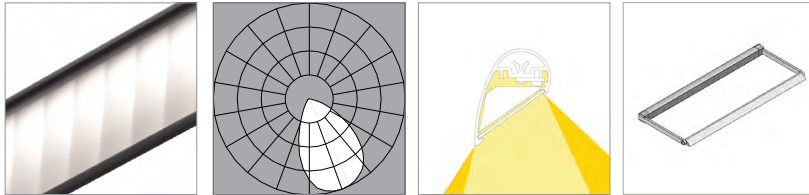
### Standard Output (SO)

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| Efficacy - Lumens per Watt | 80  | 82  | 84  | 85  |
| Lumens per foot (305mm)    | 477 | 492 | 502 | 512 |
| Watts per foot (305mm)     | 6.1 | 6.1 | 6.1 | 6.1 |

### High Output (HO)

|                            |      |      |      |      |
|----------------------------|------|------|------|------|
| Efficacy - Lumens per Watt | 74   | 77   | 78   | 80   |
| Lumens per foot (305mm)    | 907  | 935  | 954  | 973  |
| Watts per foot (305mm)     | 12.4 | 12.4 | 12.4 | 12.4 |

### Black Baffle with EdgeSoft™ (BB)



L80 >60,000 hours

**90 CRI** (90min., 96 avg.)

| <b>Low Output (LO)</b>     | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 40    | 41    | 42    | 43    |
| Lumens per foot (305mm)    | 147   | 151   | 155   | 158   |
| Watts per foot (305mm)     | 3.8   | 3.8   | 3.8   | 3.8   |

### Standard Output (SO)

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| Efficacy - Lumens per Watt | 49  | 51  | 52  | 53  |
| Lumens per foot (305mm)    | 294 | 303 | 309 | 315 |
| Watts per foot (305mm)     | 6.1 | 6.1 | 6.1 | 6.1 |

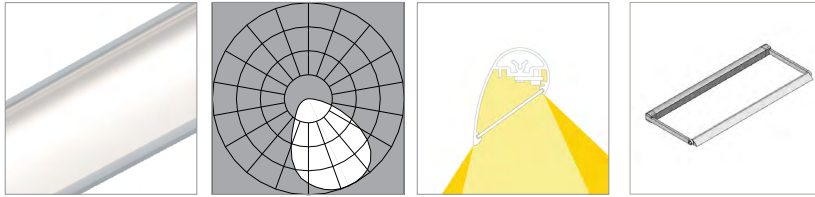
### High Output (HO)

|                            |      |      |      |      |
|----------------------------|------|------|------|------|
| Efficacy - Lumens per Watt | 46   | 47   | 48   | 49   |
| Lumens per foot (305mm)    | 558  | 576  | 587  | 599  |
| Watts per foot (305mm)     | 12.4 | 12.4 | 12.4 | 12.4 |

## Performance | Zipper Board Optics

Zipper Board Optics design has 72 diodes per foot (305mm).

### Clear with EdgeSoft™ (C1)



L80 >60,000 hours

#### 90 CRI (90min., 96 avg.)

| Low Output (LO)            | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 78    | 81    | 82    | 84    |
| Lumens per foot (305mm)    | 291   | 300   | 306   | 312   |
| Watts per foot (305mm)     | 3.8   | 3.8   | 3.8   | 3.8   |

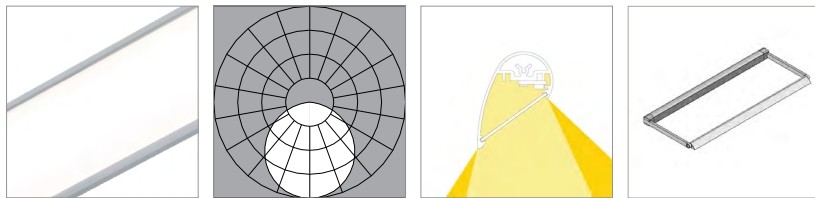
### Standard Output (SO)

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| Efficacy - Lumens per Watt | 97  | 100 | 102 | 104 |
| Lumens per foot (305mm)    | 582 | 600 | 612 | 624 |
| Watts per foot (305mm)     | 6.1 | 6.1 | 6.1 | 6.1 |

### High Output (HO)

|                            |      |      |      |      |
|----------------------------|------|------|------|------|
| Efficacy - Lumens per Watt | 90   | 93   | 95   | 97   |
| Lumens per foot (305mm)    | 1105 | 1140 | 1163 | 1187 |
| Watts per foot (305mm)     | 12.4 | 12.4 | 12.4 | 12.4 |

### Diffuse (D1)



L80 is >60,000 hours

#### 90 CRI (90min., 96 avg.)

| Low Output (LO)            | 2700K | 3000K | 3500K | 4000K |
|----------------------------|-------|-------|-------|-------|
| Efficacy - Lumens per Watt | 56    | 58    | 59    | 61    |
| Lumens per foot (305mm)    | 209   | 216   | 220   | 225   |
| Watts per foot (305mm)     | 3.8   | 3.8   | 3.8   | 3.8   |

### Standard Output (SO)

|                            |     |     |     |     |
|----------------------------|-----|-----|-----|-----|
| Efficacy - Lumens per Watt | 71  | 73  | 74  | 76  |
| Lumens per foot (305mm)    | 442 | 435 | 444 | 453 |
| Watts per foot (305mm)     | 6.1 | 6.1 | 6.1 | 6.1 |

### High Output (HO)

|                            |      |      |      |      |
|----------------------------|------|------|------|------|
| Efficacy - Lumens per Watt | 66   | 68   | 69   | 71   |
| Lumens per foot (305mm)    | 806  | 831  | 848  | 865  |
| Watts per foot (305mm)     | 12.4 | 12.4 | 12.4 | 12.4 |

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