The Optic Arts® KNIFE EDGE system produces an elegant, seamless sharp-edged architectural feature with uniform lighting on adjacent surfaces. The sharp edge extrusion attaches to extruded aluminum wall brackets and accepts 5/8” thick drywall on its underside.

Create a soft diffused illumination, color tuning or an asymmetrical forward distribution by selecting the desired beam control offering.

### FEATURES

- Integrated asymmetric light engine or soft perimeter glow
- Factory cut to length
- Factory built precision Inside and Outside Corners
- 5 Year Warranty
- Painted Eggshell RAL 9010 with primer to accept field painting
- Featuring Focus Optics Technology (F.O.T.™) or FLEX STP.

### PART NUMBER BUILDER

<table>
<thead>
<tr>
<th>SERIES</th>
<th>COLOR</th>
<th>ENDCAPS</th>
<th>LIGHT ENGINE</th>
<th>CONFIG.</th>
<th>DIMMING</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>KE</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>18</td>
<td>1800K (STP)</td>
<td>Y = Yes</td>
<td>40 = FLEX STP 4.0</td>
<td>ST = Straight</td>
<td>PDC = Pure DC® Lite</td>
<td>ST = Straight</td>
</tr>
<tr>
<td>23</td>
<td>2350K (STP)</td>
<td>Y = Yes</td>
<td>70 = FLEX STP 7.0</td>
<td>CO = Coffin</td>
<td>ND = Non-Dim</td>
<td>CO = Coffin</td>
</tr>
<tr>
<td>27</td>
<td>2700K (F.O.T.™)</td>
<td>N = No</td>
<td>50 = FLEX STP RGBW 5.0</td>
<td>RA = Raft</td>
<td>010 = 0-10V System Dimming</td>
<td>RA = Raft</td>
</tr>
<tr>
<td>29</td>
<td>2930K (STP)</td>
<td>N = No</td>
<td>58 = FLEX STP WW 5.8</td>
<td>IL = Inside L</td>
<td>vin = VintageDim® System 0-10V Dimming</td>
<td>IL = Inside L</td>
</tr>
<tr>
<td>30</td>
<td>3000K (F.O.T.™)</td>
<td>N = No</td>
<td>55 = FLEX STP WW 5.5</td>
<td>OL = Outside L</td>
<td>DMX = DMX System Dimming</td>
<td>OL = Outside L</td>
</tr>
<tr>
<td>35</td>
<td>3500K (F.O.T.™)</td>
<td>N = No</td>
<td>55 = FLEX STP WW 5.5</td>
<td></td>
<td>LN2 = Lutron Hi-Lume® A-Series 2-Wire Dimming</td>
<td></td>
</tr>
<tr>
<td>3550K (STP)</td>
<td>N = No</td>
<td>55 = FLEX STP WW 5.5</td>
<td></td>
<td>LN3 = Lutron Hi-Lume® A-Series 3-Wire/Ecosystem Dimming</td>
<td>LN3 = Lutron Hi-Lume® A-Series 3-Wire/Ecosystem Dimming</td>
<td></td>
</tr>
<tr>
<td>WW = Variable White (STP)</td>
<td>N = No</td>
<td></td>
<td></td>
<td>LNP = Lutron Hi Lume® Premier 3-Wire/Ecosystem Dimming</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RGBW27 = RGBW (STP)</td>
<td>N = No</td>
<td></td>
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</tr>
</tbody>
</table>

Note: All White and Variable White Colors are JA8 2016 when used with 0-10V, DMX, Lutron A-Series (LN2), Lutron Premier (LN3) or VintageDim® (VIN) dimming.

1. Endcaps not applicable to Raft or Coffin Configs.
2. See specification guide on page 4.
3. Must be used with DMX Dimming.
4. Must be used with DMX Dimming or VintageDim® Dimming.
5. Only available with F.O.T.™ 2700K, 3000K.
MECHANICAL

1. Blade Body - 8.00'
2. Inside Corner (Coffer)
3. Outside Corner (Raft)
4. Aligner Spline Bracket
5. Wall Bracket - 2.00'

PRODUCT INFORMATION

- CRI: 85₁, 90₁, 95₁
- Binning: <2 Step MacAdam Ellipse
- Input Voltage: 24VDC
- Dimming Options: • PURE DC®
  • MLV¹⁴
  • 0-10V
  • DMX
  • Lutron (2-WIRE, 3-WIRE, EcoSystem)
- Wire Size: F.O.T.™: 18 AWG, 2 Wire; STP White: 20 AWG, 2 Wire; STP Variable White: 20 AWG, 3 Wire
- Connections (F.O.T.™ Only): Connectable end to end in-field using on board connector system.
- Certification: ETL - Conforms to UL Standard 2108.
  Title 24 - All White and Variable White Colors are JA8 2016 when used with 0-10V, DMX, Lutron A-Series (LN2), Lutron Premier (LN8) or VintageDim® (VIN) dimming.
- Operating Temperature: -40°C (-40°F) to +50°C (+122°F)
- Environment: Indoor

LIGHT ENGINE NOTES:

- Buildable Increment: The KNIFE body will be factory cut to exact length based on specifications. F.O.T.™ has a buildable increment of 6.00'; STP has a cuttable increment of 0.90" to 2.46" (dependant on version - please see STP specification for more details.) When specifying system length, this increment should be taken into account. The factory will supply lengths as needed to most efficiently make up specified run length. When total system length exceeds light engine length, the light engine can be centered in the KNIFE body. Leaving up to 3.00" between the end of the light engine and the end of the total system run is acceptable and will not cause a visible dark spot in application. If space must be larger based on system configuration, the factory will contact the customer to discuss a solution.

- Corners: Light engine should be held back 2.00" - 3.00" on either side of a COFFER (inside) corner. This will prevent hotspots in the corners. If this is not possible based on specified lengths, the factory will contact the customer to discuss a solution. Light engine does not need to be held back on RAFT (outside) corners, but can be held back up to 3.00" without creating a dark spot.
COMPATIBLE LIGHT ENGINES

F.O.T.™ (Asymmetric)
Environment: Indoor
CRI: 90
Voltage: 24
Watts/Ft: 9.0
Max Run: 10’ (on one driver)
Lengths: 6.00”, 12.00”, 24.00”
modules available.

FLEX STP 40
Environment: Indoor
CRI: 95
Voltage: 24
Watts/Ft: 4.0
Max Run: 24” (on one driver)
Cuttable Increment: Every 0.90”

FLEX STP 70
Environment: Indoor
CRI: 95
Voltage: 24
Watts/Ft: 7.0
Max Run: 13” (on one driver)
Cuttable Increment: Every 0.90”

FLEX STP VARIABLE WHITE
Environment: Indoor
Voltage: 24
Watts/Ft: 5.8
Max Run: 16’
Cuttable Increment: Every 1.97”

FLEX STP RGBW
Environment: Indoor
Voltage: 24
Watts/Ft: 5.0
Max Run: 19’
Cuttable Increment: Every 2.46”

DELIVERED LUMENS:
COLOR | LM/FT
--- | ---
FLEX STP 40 | 300K | 533.00
Note: Stated lumen values have a tolerance of +/- 10%.

FLEX STP 70 | 2950K | 373.00
Note: Stated lumen values have a tolerance of +/- 10%.

FLEX STP VARIABLE WHITE | 3000K | 447.00
Note: Stated lumen values have a tolerance of +/- 10%.

FLEX STP RGBW | 2930K | 355.00
Note: Stated lumen values have a tolerance of +/- 10%.

Both colors at 100% (2829K)*

All LEDs at 100% | 205.00
Note: Stated lumen values have a tolerance of +/- 10%.

*JA8 2016 when used with 0-10V, DMX, or Lutron Premier (LNP) dimming.
**SPECIFICATION GUIDE**

**HOW TO SPECIFY LENGTH:**

**Straight Configuration** - Specify overall length of straight run to the nearest 1/4", if endcaps are specified the dimension of the endcaps will be taken into account when calculating overall length at the factory.

![Diagram of Straight Configuration]

**Coffer Configuration** - Specify length of each side measuring on the mounting surface. For example, the below would be specified as 8'+2'+8'+2'. Factory built corners will be included.

![Diagram of Coffer Configuration]

**Raft Configuration** - Specify length of each side measuring on the mounting surface. For example, the below would be specified as 8'+2'+8'+2'. Factory built corners will be included.

![Diagram of Raft Configuration]
**Inside L Configuration** - Specify length of each side measuring on the mounting surface. For example, the below would be specified as 8'+2'. Factory built corners will be included.

**Outside L Configuration** - Specify length of each side measuring on the mounting surface. For example, the below would be specified as 8'+2'. Factory built corners will be included.
## Compatible Drivers

### Pure DC® LITE (PDCL)

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDCL.30.24</td>
<td>30W 100-277VAC DIMMABLE DRIVER</td>
</tr>
<tr>
<td>PDCL.60.24</td>
<td>60W 100-277VAC DIMMABLE DRIVER</td>
</tr>
<tr>
<td>PDCL.96.24</td>
<td>96W 100-277VAC DIMMABLE DRIVER</td>
</tr>
</tbody>
</table>

**Dimensions**

- **PDCL.30.24**: H 1.03”; W 6.09”; D 3.62”
- **PDCL.60.24**: H 1.53”; W 7.09”; D 3.62”
- **PDCL.96.24**: H 1.61”; W 8.66”; D 3.66”

**Dimming Performance**

- Pure DC® LITE DRIVER: Dims to 1% on most MLV dimmers

**NOTE:** Must be loaded at least 10% of rated load to obtain optimal dimming.

### Pure DC® MLV (PDC)

<table>
<thead>
<tr>
<th>PART</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PDC.40.24</td>
<td>40W 120/277VAC PURE DC® MLV DIMMABLE DRIVER</td>
</tr>
<tr>
<td>PDC.96.24</td>
<td>96W 120/277VAC PURE DC® MLV DIMMABLE DRIVER</td>
</tr>
</tbody>
</table>

**Dimensions**

- **40W**: L 14.25”; W 3.00”; H 2.88”
- **96W**: L 14.75”; W 4.31”; H 4.81”

**Dimming Performance**

- Pure DC® DRIVER: Dims to 0.1% on most MLV dimmers
**ELECTRONIC DRIVER - NON-DIM (ND)**

**PART**  
GG100E-24-UNV  
96W 120-277VAC ELECTRONIC DRIVER

**DIMENSIONS**

**ELECTRONIC DRIVER**  
H 3.00", W 11.46", D 1.30"

**DIMMING PERFORMANCE**

**ELECTRONIC DRIVER**  
Non-Dim

**ELECTRONIC DRIVER W/0-10V MODULE (010)**

**PART**  
GG100E-24-UNV-010V  
96W 120-277VAC ELECTRONIC DRIVER WITH 0-10V DIMMING MODULE (SINK)

**DIMENSIONS**

**ELECTRONIC DRIVER - 0-10V**  
H 3.00", W 11.46", D 1.30"

**DIMMING PERFORMANCE**

**ELECTRONIC DRIVER - 0-10V**  
Dims below 1% on most 0-10V dimmers

**ELECTRONIC DRIVER W/DMX MODULE**

**PART**  
GG100E-24-UNV-DMX  
96W 120-277VAC ELECTRONIC DRIVER WITH eldoLED DMX DIMMING MODULE

**DIMENSIONS**

**ELECTRONIC DRIVER - DMX MODULE**  
H 3.00", W 11.46", D 1.30"

**DMX MODULE**  
H 1.97", W 6.02", D 0.91"

**DIMMING PERFORMANCE**

**ELECTRONIC DRIVER - DMX MODULE**  
Dims to 0.1% on most DMX systems

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**PURE DC® LITE**

**PART DESCRIPTION**

<table>
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<tbody>
<tr>
<td>PDCL.30.24</td>
<td>30W 100-277VAC DIMMABLE DRIVER</td>
</tr>
<tr>
<td>PDCL.60.24</td>
<td>60W 100-277VAC DIMMABLE DRIVER</td>
</tr>
<tr>
<td>PDCL.96.24</td>
<td>96W 100-277VAC DIMMABLE DRIVER</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

<table>
<thead>
<tr>
<th>PART</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDCL.30.24</td>
<td>H 1.03&quot;, W 6.50&quot;, D 3.62&quot;</td>
</tr>
<tr>
<td>PDCL.60.24</td>
<td>H 1.03&quot;, W 7.40&quot;, D 3.62&quot;</td>
</tr>
<tr>
<td>PDCL.96.24</td>
<td>H 1.61&quot;, W 8.66&quot;, D 3.66&quot;</td>
</tr>
</tbody>
</table>

**PURE DC® LITE DRIVER**

**DIMMING PERFORMANCE**

**NOTE:** Must be loaded at least 10% of rated load to obtain optimal dimming.

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**FIELD INSTALLED IN LOW VOLTAGE WIRING COMPARTMENT**

- Install DIM-010V Module in low voltage wiring compartment.
- Max number of 25 modules on one dimmer. Consult dimmer datasheet for maximum device limitation of a specific controller.

**VIOLET WIRE TO 0-10V CONTROLLER +**

**GRAY WIRE TO 0-10V CONTROLLER -**

**BLACK WIRE TO DC - OUTPUT OF DRIVER**

**RED WIRE TO DC + OUTPUT OF DRIVER**

**BLUE WIRE TO LED -**

**YELLOW WIRE TO LED +**

---

**OUT TO NEXT MODULE**

**FROM DMX CONTROLLER (BY OTHERS)**
ELECTRONIC DRIVER W/VintageDim® MODULE

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG100E-24-UNV-W</td>
<td>96W 120-277VAC ELECTRONIC DRIVER WITH VINTAGEDIM® DIMMING MODULE STANDARD DIM TO WARM CURVE</td>
</tr>
<tr>
<td>GG100E-24-UNV-C</td>
<td>96W 120-277VAC ELECTRONIC DRIVER WITH VINTAGEDIM® DIMMING MODULE CUSTOM CURVE</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **ELECTRONIC DRIVER**: H 3.00"; W 11.46"; D 1.30"
- **VintageDim® MODULE**: H 1.56"; W 1.56"; D 0.78"

**DIMMING PERFORMANCE**

- ELECTRONIC DRIVER - VintageDim® Dims below 1% on most 0-10V dimmers

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ELECTRONIC DRIVER W/DMX MODULE

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG100E-24-UNV-DMX</td>
<td>96W 120-277VAC ELECTRONIC DRIVER WITH eldoLED DMX DIMMING MODULE</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **96W**: H 3.00"; W 11.46"; D 1.30"
- **DMX MODULE**: H 1.97"; W 6.02"; D 0.91"

**DIMMING PERFORMANCE**

- ELECTRONIC DRIVER - DMX MODULE Dims to 0.1% on most DMX systems

---

For more options to wire DMX module, reference DMX System cut sheet.
**COMPATIBLE DRIVERS**

**DIMMER WITH NEUTRAL**

![Diagram of Lutron Hi-Lume 1% 2-Wire Dimmer with Neutral]

**DIMMER WITHOUT NEUTRAL**

![Diagram of Lutron Hi-Lume 1% 2-Wire Dimmer without Neutral]

**LUTRON HI-LUME® 1% 2-WIRE (LN2):**

2-WIRE CONTROL FORWARD PHASE

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTEA4U1UKL-CV240</td>
<td>5-40W, 120VAC, 2-WIRE FORWARD PHASE DRIVER</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

LUTRON HI-LUME® 1% 2-WIRE: H 4.00", W 4.89", D 2.62"

**DIMMING PERFORMANCE**

LUTRON HI-LUME® 1% 2-WIRE: Dims to 1% with compatible Lutron controls
**COMPATIBLE DRIVERS**

### 3-WIRE

**LUTRON HI-LUME® 1% (LN3): 3-WIRE/ECOSYSTEM**

**PART** | **DESCRIPTION**
--- | ---
L3DA4U1UKL-CV240 | 5-40W, 120-277VAC, 3-WIRE/ECOSYSTEM DRIVER

**DIMENSIONS**

| LUTRON HI-LUME® 1% 3-WIRE/ECOSYSTEM | H 4.00"; W 4.89"; D 2.62" |
--- | --- |

**DIMMING PERFORMANCE**

| LUTRON HI-LUME® 1% 3-WIRE/ECOSYSTEM | Dims to 1% with compatible Lutron controls |
--- | --- |

**ECOSYSTEM**

**LUTRON HI-LUME® 1% 3-WIRE**

24V DC +

---

**TO ECOSYSTEM**

**DIGITAL LINK**

**E1 (Purple)**

**NEUTRAL (WHITE)**

**LINE/HOT**

**E2 (Purple)**

**DIMMED LINE (ORANGE)**

---

**LUTRON HI-LUME® 1% 3-WIRE**

24V DC +

---

**TO ECOSYSTEM**

**DIGITAL LINK**

**E1 (Purple)**

**NEUTRAL (WHITE)**

**LINE/HOT**

**E2 (Purple)**

**DIMMED LINE (ORANGE)**

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Optic Arts reserves the right to modify this specification without prior notice.

Last Modified: September 13, 2019 11:29 AM

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**LUTRON HI-LUME® PREMIER:**

### 3-WIRE/ECOSYSTEM DRIVER

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>L3D0-96W24V-U</td>
<td>2-96W, 120-277VAC, 3-WIRE/ECOSYSTEM DRIVER</td>
</tr>
</tbody>
</table>

### DIMENSIONS

- LUTRON HI-LUME® PREMIER: H 5.5", W 10.5", D 2.0"

### DIMMING PERFORMANCE

- Dims to 0.1% with compatible Lutron controls

*NOTE: Lutron soft-on, fade to black technology available with Ecosystem Digital Control only.*