**FLEX DC® 44 RGB** is a high performance flexible LED fixture suitable for use in coves, under cabinets, in shelves, in-grade, and virtually anywhere a linear fixture is required.

- FLEX DC® RGB is dimmable via DMX.
- IP68 version is UV resistant

**ELECTRICAL**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>24VDC</td>
</tr>
<tr>
<td>Dimming Options</td>
<td>• DMX</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>4.4 Watts per foot</td>
</tr>
<tr>
<td>Wire Size</td>
<td>18AWG, 4 wire</td>
</tr>
<tr>
<td>Certification</td>
<td>ETL - Conforms to UL Std. 2108; Certified to CSA Std. C22.2 No. 9.0</td>
</tr>
</tbody>
</table>

**PHYSICAL**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Cuttable</td>
<td>Every 3.89&quot;</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C (-40°F) to +70°C (+158°F)</td>
</tr>
<tr>
<td>Environment</td>
<td>IP40 - Dry Location, IP68 - Wet Location</td>
</tr>
<tr>
<td>Maximum Run Length</td>
<td>IP40: 21', IP68: 21'</td>
</tr>
<tr>
<td>Dimensions (WxH)</td>
<td>IP40: 0.39&quot; (10.05mm) x 0.10&quot; (2.33mm), IP68: 0.57&quot; (12.70mm) x 0.25&quot; (6.35mm), IP68 Endcaps: 0.57&quot; (14.88mm) x 0.38&quot; (9.53mm)</td>
</tr>
</tbody>
</table>

**LUMEN OUTPUT**

(All Leds At 100%) 164.63 lm/ft 37.42 lm/Watt

*Stated lumen value has a tolerance of +/- 10%.

**PERFORMANCE**

- Lumen Maintenance: 50,000 Hours
- Warranty: 5 years

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting Clips</td>
<td>FLEXMNT.SIL.INT, FLEXMNT.SIL.EXT12 (pg. 8)</td>
</tr>
<tr>
<td>Double Sided Tape</td>
<td>DBTAPE10M</td>
</tr>
<tr>
<td>Channels</td>
<td>Optic Arts® Channel (pg. 3-7)</td>
</tr>
<tr>
<td>Connectors</td>
<td>LC-ISP-M, LC-ISP-F, LC-O5P-F, LC-O5P-M (pg. 8)</td>
</tr>
</tbody>
</table>

**PART NUMBER BUILDER**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>IP RATING</th>
<th>COLOR</th>
<th>VOLTAGE</th>
<th>WATTAGE</th>
<th>CONFIGURATION</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLEXDC</td>
<td>40 = IP40 - Dry Location</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>68 = IP68 - Wet Location</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RGB</td>
<td>24 = 24 VDC</td>
<td>44 = 4.4W</td>
<td>FLC1 = FLEX Config 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FLC2 = FLEX Config 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FLC3 = FLEX Config 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>XX = Custom Length</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**DIMENSIONS**

Optic Arts® cuts all FLEX DC® and Channel products to length per customer specifications. Each length of FLEX DC® is fitted with a 6’ wire lead (custom lengths available upon request) and packaged on a reel in an anti-static bag. Bags are labeled with fixture type, length and location (if applicable).

Each piece of channel is labeled with fixture type, length and location (if applicable), and is bundled by fixture type.

- Due to the nature of the FLEX DC® product, specific lengths may not fall exactly on a cutting point. In this case, Optic Arts® will always cut to the smaller dimension unless otherwise specified.
- Unless otherwise specified, channel is cut 15mm longer than FLEX DC®.
- Some on-site assembly required. See installation guides for details.

---

### INDOOR FLEX DC® 44 RGB

**INDOOR DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>0.39” (10.05mm)</td>
</tr>
<tr>
<td>Height</td>
<td>0.10” (2.33mm)</td>
</tr>
<tr>
<td>Cuttable Segment Length</td>
<td>3.89” (99.00mm)</td>
</tr>
<tr>
<td>Pitch Length</td>
<td>0.65” (16.50mm)</td>
</tr>
<tr>
<td>Max Run Length</td>
<td>21.00’ (6400.80mm)</td>
</tr>
</tbody>
</table>

---

### OUTDOOR FLEX DC® 44 RGB

**OUTDOOR DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>0.50” (12.70mm)</td>
</tr>
<tr>
<td>Height</td>
<td>0.25” (6.35mm)</td>
</tr>
<tr>
<td>Width (Endcap)</td>
<td>0.57” (14.29mm)</td>
</tr>
<tr>
<td>Height (Endcap)</td>
<td>0.38” (9.53mm)</td>
</tr>
<tr>
<td>Max Run Length</td>
<td>21.00’ (6096.00mm)</td>
</tr>
</tbody>
</table>

---

*Encased in silicone*
### Small Channels

#### Small Channel Part Number Breakdown:

<table>
<thead>
<tr>
<th>CHANNEL</th>
<th>CHANNEL SIZE</th>
<th>CHANNEL TYPE</th>
<th>LENS TYPE</th>
<th>LENS DIFFUSION</th>
<th>FINISH</th>
<th>MOUNTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH-SM</td>
<td>Small</td>
<td>LS = Legacy Short</td>
<td>SF = Surface</td>
<td>FL = Flat</td>
<td>Standard Finish</td>
<td>NA = Direct Surface</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LT = Legacy Tall</td>
<td>RE = Recessed</td>
<td>GZ = Grazer</td>
<td>Special Powder Coat Finishes</td>
<td>MC = Mounting Clip</td>
</tr>
</tbody>
</table>

#### Configuration 1

- **CH-SM-LS-RE**
  - **Material:** Anodized Aluminum.
  - **Description:** Small - Short - Recessed - Channel.
  - **Length:** 7 Ft.
  - **Lens Types:** Clear Camel, Clear Frosted, Milky Camel
  - **Accessories:** Endcap, Endcap w/ Hole

#### Configuration 2

- **CH-SM-LS-SF**
  - **Material:** Anodized Aluminum.
  - **Description:** Small - Short - Surface - Channel.
  - **Length:** 7 Ft.
  - **Lens Types:** Clear, Frosted, Milky
  - **Accessories:** Endcap, Endcap w/ Hole, Mounting Clip, Rotating Mounting Clip

#### Configuration 3

- **CH-SM-LT-RE**
  - **Material:** Anodized Aluminum.
  - **Description:** Small - Tall - Recessed - Channel.
  - **Length:** 7 Ft.
  - **Lens Types:** Clear Camel, Clear Frosted, Milky Camel
  - **Accessories:** Endcap, Endcap w/ Hole

- **CH-SM-LT-SF**
  - **Material:** Anodized Aluminum.
  - **Description:** Small - Tall - Surface - Channel.
  - **Length:** 7 Ft.
  - **Lens Types:** Clear, Frosted, Milky
  - **Accessories:** Endcap, Endcap w/ Hole, Mounting Clip, Rotating Mounting Clip

### Lens Types

- **Clear**
- **Frosted**
- **Milky**

### Additional Information

- Fits IP40 FLEX DC® Only
- **Configuration 1 with Auxiliary Housing Accessory**
  - See page 8 for Flex Connect Auxiliary Housing Accessories
  - Configuration 1 with Auxiliary Housing Accessory

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Last Modified: July 31, 2019 4:23 PM

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**FLEX DC® 44 RGB Specification Sheet**

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213.250.6069 | customerservice@opticarts.com | www.opticarts.com

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### MEDIUM CHANNELS

<table>
<thead>
<tr>
<th>CHANNEL</th>
<th>CHANNEL SIZE</th>
<th>CHANNEL TYPE</th>
<th>LENS TYPE</th>
<th>LENGTH</th>
<th>MATERIAL</th>
<th>DESCRIPTION</th>
<th>ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH-MD-LS-SF</td>
<td>LS = Legacy Short</td>
<td>SF = Surface</td>
<td>FL = Flat</td>
<td>7 Ft.</td>
<td>Anodized Aluminum</td>
<td>Medium - Lite - Surface - Channel.</td>
<td>CH-MD-LN-FL-CC, CH-MD-LN-FL-CF, CH-MD-LN-FL-CM</td>
</tr>
<tr>
<td>CH-MD-LS-RE</td>
<td>LS = Legacy Short</td>
<td>RE = Recessed</td>
<td>FL = Flat</td>
<td>7 Ft.</td>
<td>Anodized Aluminum</td>
<td>Medium - Lite - Recessed - Channel.</td>
<td>CH-MD-LN-FL-CC, CH-MD-LN-FL-CF, CH-MD-LN-FL-CM</td>
</tr>
<tr>
<td>CH-MD-TL-SF</td>
<td>TL = Tall</td>
<td>SF = Surface</td>
<td>FL = Flat</td>
<td>7 Ft.</td>
<td>Anodized Aluminum</td>
<td>Medium - Tall - Surface - Channel.</td>
<td>CH-MD-LN-FL-CC, CH-MD-LN-FL-CF, CH-MD-LN-FL-CM</td>
</tr>
</tbody>
</table>

**LENS TYPES**

- Clear
- Frosted
- Milky

**ACCESSORIES**

- Endcap
- Endcap w/hole
- Mounting Clip
- Rotating Mounting Clip
- Pendant

**LENS DIFFUSION**

- NA = Direct Surface
- MC = Mounting Clip
- RC = Rotating Clip
- PD = Pendant

---

4 of 10

---
### LARGE CHANNELS

#### CHANNEL PART NUMBER BREAKDOWN:

<table>
<thead>
<tr>
<th>SERIES</th>
<th>APPLICATION</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS = Slim Channel</td>
<td>S = Surface Mount</td>
<td>XXXX = W x H (mm)</td>
</tr>
<tr>
<td>CHW = Wide Channel</td>
<td>R = Recessed Mount</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C = Corner Mount</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H = Hanging Mount</td>
<td></td>
</tr>
</tbody>
</table>

**CHW-S-3535**

- **MATERIAL:** Anodized Aluminum
- **DESCRIPTION:** Wide and deep surface mounted or hanging channel. Eliminates visible LED nodes for most FLEXDC products when used with a milky lens.
- **LENGTH:** 2 meter
- **LENS TYPES:**
  - Frosted: CHW-35mm-CF
  - Milky: CHW-35mm-CM
- **ACCESSORIES:**
  - Endcap: CHW-S-3535-EC
  - Endcap w/hole: CHW-S-3535-ECH
  - Mounting Clip: CHW-S-3535-MC
  - Hanging Hardware: CHW-SH-3535-MW
  - Bracket Straight: CHW-S-3535-BS
  - Bracket 90° Flat: CHW-S-3535-B90F
  - Bracket 90° Raised: CHW-S-3535-B90R

**CHW-R-4435**

- **MATERIAL:** Anodized Aluminum
- **DESCRIPTION:** Wide and deep recessed channel. Eliminates visible LED nodes for most FLEXDC products when used with a milky lens. Can be securely and conveniently mounted with CHW-R-4435-SC spring clip.
- **LENGTH:** 2 meter
- **LENS TYPES:**
  - Frosted: CHW-35mm-CF
  - Milky: CHW-35mm-CM
- **ACCESSORIES:**
  - Endcap: CHW-R-4435-EC
  - Endcap w/hole: CHW-R-4435-ECH
  - Mounting Clip: CHW-R-4435-MC
  - Bracket Straight: CHW-R-4435-BS
  - Bracket 90° Flat: CHW-R-4435-B90F
  - Bracket 90° Raised: CHW-R-4435-B90R

**CORNER CHANNELS**

#### CHS-C-1919

- **MATERIAL:** Anodized Aluminum
- **DESCRIPTION:** Slim corner mount channel.
- **LENGTH:** 2 meter
- **LENS TYPES:**
  - Clear: CHS-12mm-CC
  - Frosted: CHS-12mm-CF
  - Milky: CHS-12mm-CM
- **ACCESSORIES:**
  - Endcap: CHS-C-1919-EC
  - Endcap w/hole: CHS-C-1919-ECH
  - Mounting Clip: CHS-C-1919-MC

**CHS-C-1616**

- **MATERIAL:** Anodized Aluminum
- **DESCRIPTION:** Slim corner mount channel with rounded lens.
- **LENGTH:** 2 meter
- **LENS TYPES:**
  - Frosted: CHS-C-1616-CF
  - Milky: CHS-C-1616-CM
- **ACCESSORIES:**
  - Endcap: CHS-C-1616-EC
  - Endcap w/hole: CHS-C-1616-ECH
  - Mounting Clip: CHS-C-1616-MC

*Must specify for hanging or surface mount application.*
## CORNER CHANNELS

### CHW-C-3030

- **Material**: Anodized Aluminum
- **Description**: 45 degree channel with rounded lens.
- **Length**: 2 meter
- **Lens Types**:
  - Clear: CHW-C-3030-CC
  - Frosted: CHW-C-3030-CF
  - Milky: CHW-C-3030-CM
- **Accessories**:
  - Endcap: CHW-C-3030-EC
  - Endcap w/hole: CHW-C-3030-ECH
  - Mounting Clip: CHW-C-3030-MC

### CHW-C-3030S

- **Material**: Anodized Aluminum
- **Description**: 45 degree channel with square lens.
- **Length**: 2 meter
- **Lens Types**:
  - Clear: CHW-C-3030S-CC
  - Frosted: CHW-C-3030S-CF
  - Milky: CHW-C-3030S-CM
- **Accessories**:
  - Endcap: CHW-C-3030S-EC
  - Endcap w/hole: CHW-C-3030S-ECH
  - Mounting Clip: CHW-C-3030S-MC

## SPECIALTY CHANNELS

### CHS-S-1922R

- **Material**: Anodized Aluminum
- **Description**: Slim surface mounted channel with rounded wrap around lens. Mounting clip is fully concealed within fixture base.
- **Length**: 2 meter
- **Lens Types**: Milky
- **Accessories**:
  - Endcap: CHS-S-1922R-EC
  - Endcap w/hole: CHS-S-1922R-ECH
  - Mounting Clip: CHS-S-1922R-MC

### CHS-S-1922S

- **Material**: Anodized Aluminum
- **Description**: Slim surface mounted channel with square wrap around lens. Mounting clip is fully concealed within fixture base.
- **Length**: 2 meter
- **Lens Types**: Milky
- **Accessories**:
  - Endcap: CHS-S-1922S-EC
  - Endcap w/hole: CHS-S-1922S-ECH
  - Mounting Clip: CHS-S-1922S-MC

### CHW-S-2623

- **Material**: Anodized Aluminum
- **Description**: Surface mounted channel with wrap around lens.
- **Length**: 2 meter
- **Lens Types**: Milky
- **Accessories**:
  - Endcap: CHW-S-2623-EC
  - Endcap w/hole: CHW-S-2623-ECH

### CHW-S/H-2027

- **Material**: Anodized Aluminum
- **Description**: Small surfaced mounted or hanging channel with wrap around lens.
- **Length**: 2 meter
- **Lens Types**: Clear, Frosted, Milky
- **Accessories**:
  - Endcap: CHW-S-H-2027-EC
  - End Cap w/hole: CHW-S-H-2027-ECH
  - Bracket Straight: CHW-S-H-6S
  - Bracket 90º Flat: CHW-S-H-90F
  - Bracket 90º Raised: CHW-S-H-180F

### CHS-S-1922S

- **Material**: Anodized Aluminum
- **Description**: Slim surface mounted channel with rounded wrap around lens. Mounting clip is fully concealed within fixture base.
- **Length**: 2 meter
- **Lens Types**: Milky
- **Accessories**:
  - Endcap: CHS-S-1922S-EC
  - Endcap w/hole: CHS-S-1922S-ECH
  - Mounting Clip: CHS-S-1922S-MC

*Must specify for hanging or surface mount application.*
SPECIALTY CHANNELS

**CHW-S/H-3561**

- **MATERIAL**: Anodized Aluminum
- **DESCRIPTION**: Large surface mounted or hanging channel with wrap around lens.
- **LENGTH**: 2 meter
- **LENS TYPES**: Milky
- **ACCESSORIES**:
  - Endcap: CHW-SH-3561-EC
  - End Cap w/ hole: CHW-SH-3561-MW
  - Hanging Hardware: CHW-SH-BS
  - Bracket Straight: CHW-SH-B90F
  - Bracket 90° Flat: CHW-SH-B90F
  - Bracket 90° Raised: CHW-SH-B90R

**CHW-S/H-3030**

- **MATERIAL**: Anodized Aluminum
- **DESCRIPTION**: Wide and deep surface mounted or hanging channel with flat lens for even blending.
- **LENGTH**: 2 meter
- **LENS TYPES**: Milky
- **ACCESSORIES**:
  - Endcap: CHW-SH-3030-EC
  - End Cap w/ hole: CHW-SH-3030-MW
  - Hanging Hardware: CHW-SH-BS
  - Bracket Straight: CHW-SH-B90F
  - Bracket 90° Flat: CHW-SH-B90F
  - Bracket 90° Raised: CHW-SH-B90R

**CHW-S/H-7532**

- **MATERIAL**: Anodized Aluminum
- **DESCRIPTION**: Wide surface mounted or hanging channel with flat lens.
- **LENGTH**: 2 meter
- **LENS TYPES**: Frosted
- **ACCESSORIES**:
  - Endcap: CHW-SH-7532-EC
  - End Cap w/ hole: CHW-SH-7532-MW
  - Hanging Hardware: CHW-SH-BS
  - Bracket Straight: CHW-SH-B90F
  - Bracket 90° Flat: CHW-SH-B90F
  - Bracket 90° Raised: CHW-SH-B90R

**CHC-S-1921**

- **MATERIAL**: Anodized Aluminum
- **DESCRIPTION**: Surface mount channel with flat lens. Mounts to ferrous and non-ferrous surfaces using magnets with no visible fasteners once mounted.
- **LENGTH**: 2 meter
- **LENS TYPES**: Milky
- **ACCESSORIES**:
  - Endcap: CHC-S-1921-EC
  - End Cap w/ hole: CHC-S-1921-MW
  - Channel Mounted Magnet: CHC-S-1921-MA
  - Wall Mounted Magnet: CHC-S-1921-M
  - 1' Mounting Plate: CHC-S-1921-B1

*Must specify for hanging or surface mount application.*
ACCESSORIES

LC-I5P-M
Indoor Lead Connector (Male)

LC-I5P-F
Indoor Lead Connector (Female)

LC-O5P-F
Outdoor Lead Connector (Female)

LC-O5P-M
Outdoor Lead Connector (Male)

FLEX.ZIP
Strain Relief Clip

FLEXMNT.SIL.INT
Indoor Mounting Clip

FLEXMNT.SIL.EXT12
Outdoor Mounting Clip
### Configuration Types

**[NOT COMPATIBLE]** FLEX cut to length with FLEX Connect® Power Feeds for Field Termination, Channel uncut for field cutting

- Specify FLEXConfig-1
- Specify FLEX type and channel type
- FLEX factory cut to length, but not terminated
- One FLEX Connect® power feed connector and 6' lead provided per FLEX run
- Uncut rolls of lead wire can also be provided (see page 8 for part #)
- Channel shipped uncut for field cutting.
- Specify number of butt splices (not shown - see page 8)
- IP68 not available in FLEXConfig-1
- JA8 2016 not available in FLEXConfig-1
- FLEXConfig-1 is quick ship if run lengths are provided at time of order. Take offs, if needed, will add lead time.

### Cut To Length With Soldered Leads, Assemble On-Site

- Specify FLEXConfig-2
- Specify FLEX type and channel type
- Specify run lengths
- IP68 only available in FLEXConfig-2
- If no config is specified, and run lengths are provided, FLEXConfig-2 will be used

### Pre-Assembled Factory Finished Fixtures

- Contact factory for Configuration 3
- Specify FLEXConfig-3
- Fully assembled fixture
- ETL stamped and listed as a fixture
- 6.50' max length
- Standard 6' power lead unless otherwise specified
- The below channels CANNOT be factory assembled:
  - Small:
    - CH-SM-LS-RE
    - CH-SM-LT-RE
  - Large:
    - CHW-R-2010
    - CHW-S-2027
    - CHW-S-7532
    - CHW-S-2623
    - CHW-S-3030
    - CHW-S-3561

**NOTES:**
1. Due to the nature of the FLEX DC® product, specific lengths may not fall exactly on a cutting point. In this case, Optic Arts® will always cut to the smaller dimension unless otherwise specified.
2. Unless otherwise specified, channel is cut 15mm longer than FLEX DC®.
3. Some on-site assembly required. See installation guides for details.
## 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" |

*Must be installed in UL box (by others)*

### DIMMING PERFORMANCE

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

**OUT TO NEXT MODULE**

**FROM DMX CONTROLLER (BY OTHERS)**