

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat. #: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Quantity: \_\_\_\_\_



# RCL G2 8 | LED Channel Retrofit Kit

## Features:

- High performance LED technology
- 90+ CRI Standard
- 0-10V dimming drivers standard
- DALI drivers available
- Field replaceable LED boards and drivers
- Frosted diffuser available to help minimize glare and improve aesthetics
- A wide variety of lumen packages and lengths allows for flexibility in design and helps maximize energy savings
- Saves on installation cost, material cost, and waste
- Advanced controls available
- Buy American Act compliant *(All base luminaires are BAA compliant. Addition of options may change eligibility. Contact factory for details.)*

## Applications:

Suitable for most commercial, industrial and institutional applications

- Office
- Retail
- Warehouse
- Coves
- Valences

## Predicted Lifetime:

- L70: ≥ 129,000 hrs (calculated)
- L80: ≥ 81,000 hrs (calculated)
- L90: ≥ 39,000 hrs (reported)
- 85% lumen maintenance @ 60,000 hrs *(based on LM80 and insitu laboratory testing)*

## Construction:

- Precision brake formed from heavy gauge cold rolled steel
- Highly durable, highly reflective white finish

## Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) <http://designlights.org/>

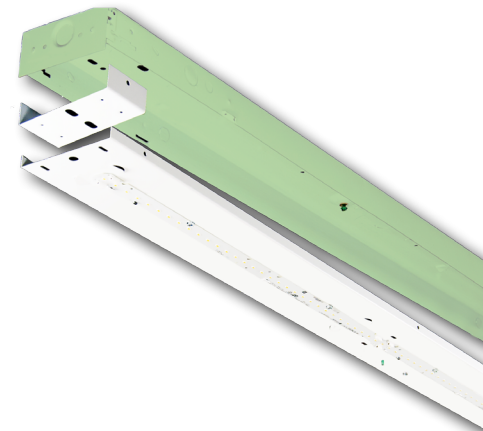


## Ambient Operating Temp.:

- -30°C to 40°C

## Warranty:

- 5 year limited system warranty - see [www.LumenFocus.com](http://www.LumenFocus.com) for complete warranty terms and conditions
- 10 year warranty option available on specific models *(Not available on all models. Certain conditions apply. Consult factory or sales representative for details.)*



Ordering Guide:

example: RCL G2 8 MD UV FR 940 4.25" ZOSMD EM10

| Series | Version     | Length  | Output            | Voltage       | Shielding                          | CRI/CCT             | Channel Width   | Controls   | Options  |
|--------|-------------|---------|-------------------|---------------|------------------------------------|---------------------|---|--|--|
| RCL    | G2          | 8       |                   |               |                                    |                     |   |  |  |
| RCL    | G2<br>Gen 2 | 8<br>8' | LW<br>Low         | UV<br>120-277 | Blank<br>No Lenses                 | 930<br>90 CRI/3000K | x.xx"<br>Specify Channel Width<br>(in inches)   | Blank<br>No Controls   | Blank<br>No Options                                  |
|        |             |         | ML<br>Medium Low  | 34<br>347V    | FR<br>Frosted Acrylic<br>Diffusers | 935<br>90 CRI/3500K | VAR<br>Variable - Adjusts to fit<br>channel widths from 4.00"<br>to 5.00"                                 | ZSOL<br>Leviton Intellect Solo Programmable<br>PIR/Daylight Harvesting Sensor <sup>(1)</sup>   | EXT10<br>10-Year Extended<br>Warranty <sup>(4)</sup> |
|        |             |         | MD<br>Medium      |               |                                    | 940<br>90 CRI/4000K |   | ZOSMD<br>Microwave Occupancy Sensor with<br>Photocell (On/Off/Dim) <sup>(2)</sup>  | EM6<br>6.5W Emergency Pack <sup>(5)</sup>            |
|        |             |         | MH<br>Medium High |               |                                    | 950<br>90 CRI/5000K |   | ZSLFC2<br>Keystone SmartLoop Wireless<br>Bluetooth Mesh Occupancy/<br>Daylight Harvesting Smart Sensor <sup>(1)</sup>                | EM10<br>10W Emergency Pack <sup>(5)</sup>            |
|        |             |         | HI<br>High        |               |                                    |                     |   | ZLDS<br>Leviton Intellect DALI Sensor<br>with Dimming/Occupancy/<br>Daylight Harvesting with Newtork<br>Capabilities <sup>(3)</sup>  | EM14<br>14W Emergency Pack <sup>(5)</sup>            |
|        |             |         | VH<br>Very High   |               |                                    |                     |   | ZLDC<br>Leviton Intellect DALI Fixture<br>Controller with Newtork<br>Capabilities <sup>(3)</sup>                                     | CC<br>Conformal Coating                              |
|        |             |         | SH<br>Super High  |               |                                    |                     |   | ZL7S<br>Leviton Intellect 0-10V Sensor<br>with Dimming/Occupancy/<br>Daylight Harvesting with Newtork<br>Capabilities <sup>(3)</sup> | LVL<br>0-10V Dimming Leads<br>for Easy Field Access  |
|        |             |         |                   |               |                                    |                     | ZL7C<br>Leviton Intellect 0-10V Fixture<br>Controller with Newtork<br>Capabilities <sup>(3)</sup>         | BAA<br>Buy American Act<br>Compliant   |  |
|        |             |         |                   |               |                                    |                     | ZENLC<br>Enlighted Connected Micro Sensor<br>with Dimming/Occupancy/Daylight<br>Harvesting <sup>(3)</sup> |  |  |
|        |             |         |                   |               |                                    |                     | ZENLI<br>Enlighted IoT Micro Sensor with<br>Dimming/Occupancy/Daylight<br>Harvesting <sup>(3)</sup>       |  |  |

Notes

- <sup>(1)</sup> See Page 4 for more details.
- <sup>(2)</sup> 120-277V only. See page 4 for more details.
- <sup>(3)</sup> See page 5 for more details.
- <sup>(4)</sup> Not available on all models. Certain conditions apply. Consult factory or sales representative for details.
- <sup>(5)</sup> 120-277V / 0°C-55°C ambient. To estimate lumen output in emergency mode, multiply EM wattage by the Lumens per Watt of the luminaire it is installed in.  
ex. RCL G2 8 MD UV 940 EM10 → 152.7 LPW x 10W = 1,527 lm

Accessories (order separately)

STD(480V) 480V to 277V Step Down Transformer

Controls Accessories (order separately)

-  **For Leviton Intellect Solo Controls**  
ZLSOR-RA1 Wireless IR Programming Tool (For ZSOL)
-  **For Keystone SmartLoop Controls**  
KTSL-WS1-B-SG/G2 5-Button Bluetooth Wireless Wall Switch  
KTSL-TK1-USB USB Time Keeper
-  **For Leviton Intellect Networked Controls**  
DRKDN-U1W 1-Button Wireless Wall Controller  
DRKDN-U2W 2-Button Wireless Wall Controller  
DRKDN-U4W 4-Button Wireless Wall Controller  
DRKDN-U8W 8-Button Wireless Wall Controller
-  **For Enlighted Controls**  
WS-2-00 Enlighted Remote Control Wall (for Enlighted Connected & IoT)



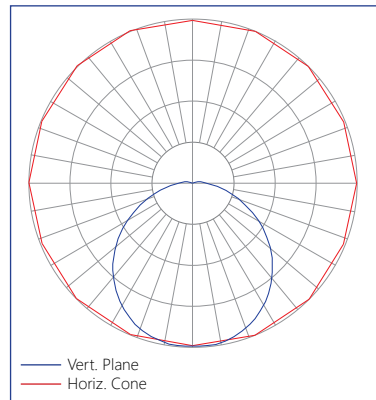
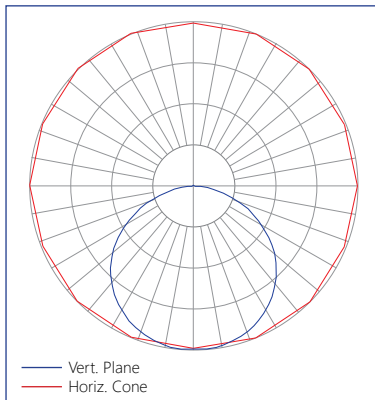
Performance Chart:

| Catalog #             | Watts | Lumens (930) | LPW (930) | Lumens (935) | LPW (935) | Lumens (940) | LPW (940) | Lumens (950) | LPW (950) |
|-----------------------|-------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| RCL G2 8 LW UV FR 9xx | 28.5  | 4249.9       | 148.9     | 4267.8       | 149.5     | 4369.2       | 153.1     | 4369.2       | 153.1     |
| RCL G2 8 ML UV FR 9xx | 43.1  | 6316.6       | 146.6     | 6343.2       | 147.2     | 6493.9       | 150.7     | 6493.9       | 150.7     |
| RCL G2 8 MD UV FR 9xx | 58.2  | 8221.1       | 141.3     | 8255.8       | 141.9     | 8451.8       | 145.2     | 8451.8       | 145.2     |
| RCL G2 8 MH UV FR 9xx | 68.1  | 10253.6      | 150.5     | 10296.8      | 151.1     | 10541.3      | 154.7     | 10541.3      | 154.7     |
| RCL G2 8 HI UV FR 9xx | 85.1  | 12507.7      | 146.9     | 12560.4      | 147.5     | 12858.8      | 151.0     | 12858.8      | 151.0     |
| RCL G2 8 VH UV FR 9xx | 112.6 | 16404.0      | 145.7     | 16473.2      | 146.4     | 16864.4      | 149.8     | 16864.4      | 149.8     |
| RCL G2 8 SH UV FR 9xx | 146.7 | 20528.6      | 139.9     | 20615.1      | 140.5     | 21104.8      | 143.9     | 21104.8      | 143.9     |
| RCL G2 8 LW UV 9xx    | 28.5  | 4467.1       | 156.5     | 4485.9       | 157.1     | 4592.5       | 160.9     | 4592.5       | 160.9     |
| RCL G2 8 ML UV 9xx    | 43.1  | 6639.4       | 154.1     | 6667.4       | 154.8     | 6825.8       | 158.4     | 6825.8       | 158.4     |
| RCL G2 8 MD UV 9xx    | 58.2  | 8641.3       | 148.5     | 8677.7       | 149.1     | 8883.8       | 152.7     | 8883.8       | 152.7     |
| RCL G2 8 MH UV 9xx    | 68.1  | 10777.6      | 158.2     | 10823.0      | 158.8     | 11080.1      | 162.6     | 11080.1      | 162.6     |
| RCL G2 8 HI UV 9xx    | 85.1  | 13147.0      | 154.4     | 13202.4      | 155.1     | 13516.0      | 158.7     | 13516.0      | 158.7     |
| RCL G2 8 VH UV 9xx    | 112.6 | 17242.4      | 153.2     | 17315.1      | 153.8     | 17726.4      | 157.5     | 17726.4      | 157.5     |
| RCL G2 8 SH UV 9xx    | 146.7 | 21577.8      | 147.1     | 21668.7      | 147.7     | 22183.4      | 151.2     | 22183.4      | 151.2     |

Photometric Data:

Relative Luminous Intensity  
RCL G2 - no lens

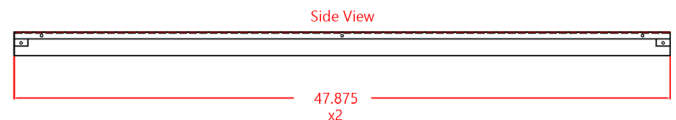
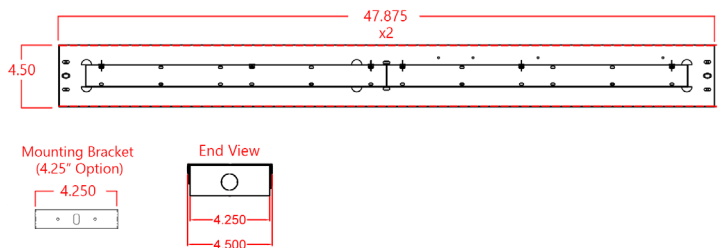
Relative Luminous Intensity  
RCL G2 - with Frosted Diffuser



The RCL G2 features field replaceable boards and drivers. This allows you to upgrade to more efficient technology in the future. Or, in the rare event of a failure, you can rapidly replace defective components. Re-boardABILITY helps to ensure you won't get stuck with an obsolete light fixture. [Learn more about Re-boardABILITY here.](#)



Schematic:



## Controls Summary:

| Control Code | Type                              | Capabilities   | Communication  |
|--------------|-----------------------------------|--|--|
| ZSOL         | Motion (PIR), Daylight Harvesting | High/Low/Off   | Wired 0-10V, Programmable via IR remote (sold separately)  |
| ZOSMD        | Motion (Microwave), Photosensor   | On/Low/Off   | Wired 1-10V  |
| ZSLFC2       | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling, LLLC (Keystone Tech-SmartLoop)  | Wireless Bluetooth Mesh, Programmable via Keystone SmartLoop App for iOS or Android  |
| ZLxS         | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling, Demand Response*, BMS Integration*, LLLC (GreenMAX DRC)   | Wireless Zigbee 2.4 GHz Mesh, Programmable via GreenMAX DRC app. for iOS or Android along with DRKDN-UxW Wall Controller (sold separately) |
| ZLxC         | Controller, No Sensors            | High/Low/Off, High-End Trim, Grouping, Scheduling, Demand Response*, BMS Integration*, LLLC (GreenMAX DRC)   | Wireless Zigbee 2.4 GHz Mesh, Programmable via GreenMAX DRC app. for iOS or Android along with DRKDN-UxW Wall Controller (sold separately) |
| ZENLC        | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, Upgradable to IoT (ZENLI), LLLC (Enlighted IoT)  | Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software  |
| ZENLI        | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, LLLC (Enlighted IoT)*, Space - Building Utilization*, Where - Real Time Location Services* | Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software  |

LLLC = Luminaire Level Lighting Control  
 \* Additional equipment required. Contact LumenFocus representative for details

## Keystone SmartLoop Wireless Control System

The SmartLoop wireless lighting control system by Keystone is a Bluetooth mesh lighting control system that allows you to set up and manage your lighting ecosystem quickly and easily. It's powerful enough to run a space with multiple lighting zones, but simple enough to program in minutes with your smartphone – perfect for warehouses, offices, schools, and auditoriums, whether new construction or retrofit.

- Wireless Bluetooth 2.4 GHz mesh network
- Supports up to 100 devices on a single region, with unlimited regions
- Independent per-fixture control: Occupancy, Daylight Harvesting, Task Tuning, Grouping, Scene Setting, Scheduling
- Commissioned via SmartLoop mobile app for iPhone and Android



- Low voltage individual fixture controller for SmartLoop system
- Integrated daylight and PIR motion sensors
- **Up to 16' mounting height.** 16' radius at 16' height.
- Works with 0-10V dim-to-off drivers with 12V aux. power

## SmartLoop Accessories

- Bluetooth Wireless Wall Switch: **KTSL-WS1-B-SG/G2**
  - Battery Powered: 2x CR2032
  - 5 Button: Power Toggle, Dimming, Automatic Sensor/Preset Level Operation, Scene Activation
- USB Time Keeper: **KTSL-TK1-USB**
  - Relays time to system components after a power loss
  - Powered by standard USB charging port
  - Internal CR1220 battery backup



## Microwave Occupancy Sensor (ZOSMD)

The Leviton OSM3D-DDW (or equivalent) detects motion through low density materials using high frequency electromagnetic waves. This means it can sit discretely behind the RCL G2's frosted lens. The ZOSMD features automatic switching based on motion and ambient light level. ZOSMD option adds step-dimming functionality - standby dimming level 10% / 20% / 30% / 50%. **Max mounting height for ZOSMD 40 feet.**



## Leviton Intellect Solo Dimming Sensor (ZSOL)

The RCL G2 can be equipped with an integrated Leviton Intellect Solo Sensor ("ZSOL" option). This is a 0-10V dimming Passive Infrared (PIR) occupancy and daylight harvesting sensor.

- Other features:
- Partial-on
  - Partial-off
  - **8' to 10' mounting height**
  - IP20 rated
  - Detection angle: 120 degrees
  - IR remote available for programming sensor from the floor (sold separately)
  - Can be used to comply with IECC, ASHRAE 90.1 and 2019 Title 24, Part 6 dimming, occupancy/vacancy sensing and daylight harvesting requirements.



## GreenMAX DRC Wireless Networked Control System with Leviton Intellect Sensors & Controllers

The GreenMAX DRC Wireless Keypad Room Controllers are used as the brain of the system, managing the fixture integrated Leviton Intellect sensors & controllers. Wirelessly commission, configure, control, monitor and provision the GreenMAX DRC system using the GreenMAX DRC App and an Android or iOS smart device.

- Occupancy/Vacancy Sensing
- Multi-Level Lighting, Partial-On, Partial-Off
- Daylight Harvesting
- Task Tuning
- Scheduling
- Grouping
- Demand Response
- BMS Integration
- ZigBee 2.4 GHz Wireless Mesh Network
- Up to 75' between devices

\* DRKDN-UxW room controller required for full functionality and programming of Intellect sensors & controllers



### ZLxS



- PIR Occupancy Sensor
- Daylight Sensor
- 0-10V or DALI
- **Up to 20' mounting height**

### ZLxC



- Wireless fixture controller, no sensor
- 0-10V or DALI

### DRKDN-UxW Room Controllers



- 1-, 2-, 4-, and 8-button configurations
- Line voltage powered: 120-277V
- Max capacity: 60 devices
- Programmable: On/Off/Raise/Lower/ Toggle/Scene
- Use any Android or iOS device for configuration using the GreenMAX DRC App

## Enlighted: All-in-one sensors, upgradeable systems

Enlighted's SMART Micro Sensor is an all-in-one unit: task tuning, high-end trimming, daylight harvesting, and occupancy/vacancy detection. **Max installation height is 15 feet.**

Enlighted Connected ("ZENLC") offers many features, including motion and switch groups, daylight harvesting, energy reporting, and more. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Enlighted Connected can be fully upgraded to the next tier in the future. So if you start with ZENLC but want to add the functionality of the ZENLI option, you can.

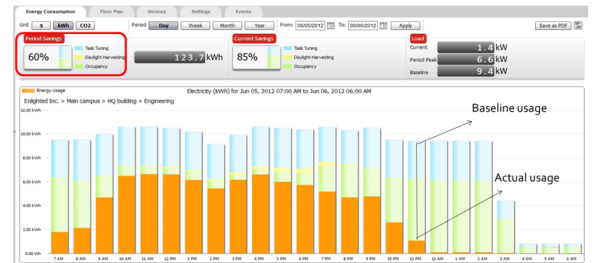


| Enlighted Capabilities*                  | Enlighted Connected (ZENLC) | Enlighted IoT (ZENLI) |
|--|-----------------------------|-----------------------|
| Motion and Switch Groups                 | ✓                           | ✓                     |
| Daylight Harvesting                      | ✓                           | ✓                     |
| Schedule Lighting                        | ✓                           | ✓                     |
| Energy Reporting & Optimization          | ✓                           | ✓                     |
| Environment Data & Lighting Controls API | ✓                           | ✓                     |
| Building Management System Integration   | ✓                           | ✓                     |
| Where & Space Applications               |                             | ✓                     |
| Location & Occupancy APIs & Beacons      |                             | ✓                     |
| Future App & API Ready                   |                             | ✓                     |

## Real-time data analytics

Enlighted's control units compile data in real-time, which can be viewed via the Energy Manager. The Energy Manager is part of the Enlighted Connected and Enlighted IoT configurations.

- Real-time measurements and verification of energy savings
- Space analytics - data can be compiled into motion trails and heat maps
- Analyze traffic density and congestion in a space



© 2024 Enlighted for all Enlighted content and images.

© 2024 Leviton Manufacturing Co. Inc. for all Leviton content and images.

