LUMENFOCUS

Project: _____

Location: _____

Cat. #: _____

Type: _____

Quantity: _____

LED

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

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)
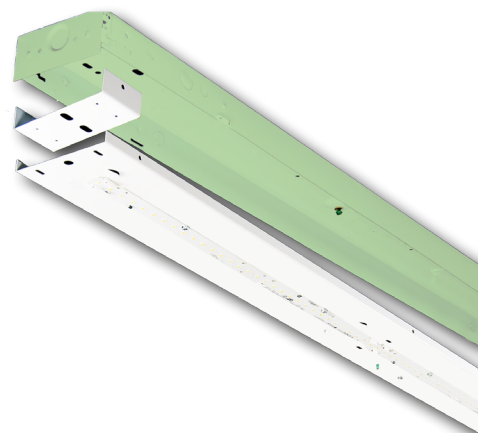 http://designlights.org/

Ambient Operating Temp.:
- -30°C to 40°C

Warranty:
- 5 year limited system warranty - see www.LumenFocus.com 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.)

MADE IN USA
USING DOMESTIC AND FOREIGN COMPONENTS

10 YEAR EXTENDED WARRANTY
AVAILABLE ON CERTAIN MODELS

90+ CRI

Ordering Guide:

example: RCL G2 8 MD UV FR 940 4.25" ZOSMD EM1

Series	Version	Length	Output	Voltage	Shielding	CRI/CCT	Channel Width	Controls	Options
RCL	G2	8							
RCL	**G2** Gen 2	**8** 8'	**LW** Low **ML** Medium Low **MD** Medium **MH** Medium High **HI** High **VH** Very High **SH** Super High	**UV** 120-277 **34** 347V	**Blank** No Lenses **FR** Frosted Acrylic Diffusers	**930** 90 CRI/3000K **935** 90 CRI/3500K **940** 90 CRI/4000K **950** 90 CRI/5000K	**x.xx"** Specify Channel Width *(in inches)* **VAR** Variable - Adjusts to fit channel widths from 4.00" to 5.00"	**Blank** No Controls **ZSOL** Leviton Intellect Solo Programmable PIR/Daylight Harvesting Sensor[1] **ZOSMD** Microwave Occupancy Sensor with Photocell (On/Off/Dim) [2] **ZLDS** Leviton Intellect DALI Sensor with Dimming/Occupancy/Daylight Harvesting with Newtork Capabilities[3] **ZL7S** Leviton Intellect 0-10V Sensor with Dimming/Occupancy/Daylight Harvesting with Newtork Capabilities[3] **ZLDC** Leviton Intellect DALI Fixture Controller with Newtork Capabilities[3] **ZL7C** Leviton Intellect 0-10V Fixture Controller with Newtork Capabilities[3] **ZENLO** Enlighted One Micro Sensor with Dimming/Occupancy/Daylight Harvesting[3] **ZENLC** Enlighted Connected Micro Sensor with Dimming/Occupancy/Daylight Harvesting[3] **ZENLI** Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting[3]	**Blank** No Options **EXT10** 10-Year Extended Warranty[4] **EM1** Emergency Pack - Up to 8W [5] **EM2** Emergency Pack - Up to 16W [5] **CC** Conformal Coating **LVL** 0-10V Dimming Leads for Easy Field Access **BAA** Buy American Act Compliant

Notes

[1] See Page 4 for more details.
[2] 120-277V only. See page 4 for more details.
[3] See page 5 for more details.
[4] Not available on all models. Certain conditions apply. Consult factory or sales representative for details.
[5] 120-277V only / 0°C-50°C ambient.

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 Leviton Intellect Networked Controls
DRKDN-U1W   1-Button Wireless Wall Controller
DRKDN-U2W   2-Button Wireless Wall Controller
DRKDN-U2W   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)
WS-2-00-IL   Enlighted Remote Control Wall (for Enlighted One)
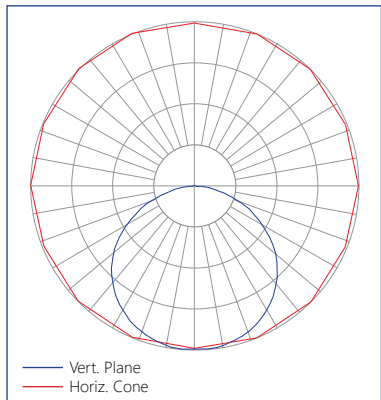
© 2023 LumenFocus, LLC.
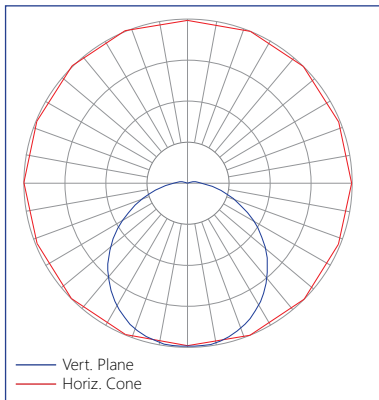LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications.

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252-430-6970

RCL_G2_8_LED_v1.2
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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

— Vert. Plane
— Horiz. Cone

Relative Luminous Intensity
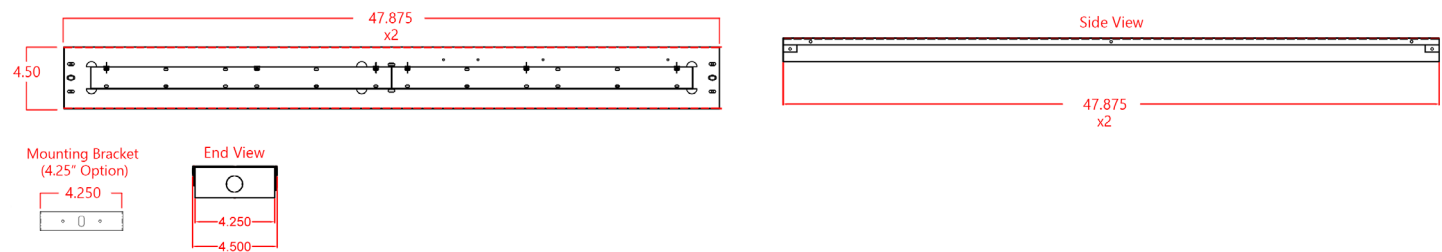### RCL G2 - with Frosted Diffuser

— Vert. Plane
— Horiz. Cone

LUMENF⦿CUS
Re-boardABILITY

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:

47.875
x2

4.50

Side View

47.875
x2

Mounting Bracket
(4.25" Option)

4.250

End View

4.250
4.500

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
ZLxS	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling, Demand Response*, BMS Integration*, LLLC (Green-MAX 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 (Green-MAX DRC)	Wireless Zigbee 2.4 GHz Mesh, Programmable via GreenMAX DRC app. for iOS or Android along with DRKDN-UxW Wall Controller (sold separately)
ZENLO	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Upgradable to Connected (ZENLC) or IoT (ZENLI)	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted Room Controller WS-2-00-IL (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

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.

ZOSMD option: **Leviton 0-10V High Frequency Microwave Sensor**

The RCL G2 can be equipped with an integrated Leviton 0-10V dimming high frequency microwave sensor ("ZOSMD" option). The ZOSMD detects motion through low density materials allowing it to be installed out of site, under the RCL's frosted lens. The high frequency waves offer less interference and false tripping than traditional sensing technology for reliable occupancy applications. The integrated daylighting sensor detects natural light and turns lights ON or keeps lights OFF in response to available natural light or the daylight set point when motion is detected.

Features:
• Automatic switching or dimming based on motion
• Ambient light override
• Designed to detect movement behind low-density fixture materials or behind objects made of plastic or glass

• **up to 40' mounting height**
• Wide Detection Zone: up to 52' diameter
• Standby Dimming Level: 10% / 20% / 30% / 50%
• IP20 rated
• 120-277V

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

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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.**
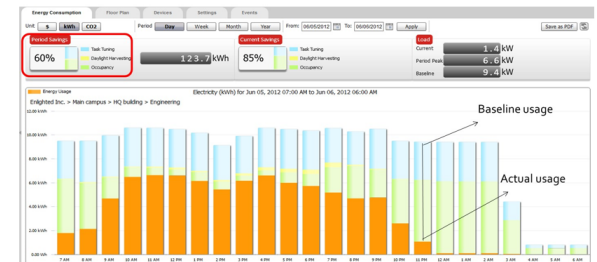
Enlighted sensors come standard with the Enlighted One system (the "ZENLO" option). Enlighted Connected ("ZENLC") offers even more options. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Each system can be fully upgraded to the next tier in the future. So if you start with Enlighted One but want to add energy reporting or building management systems integration in the future, you can.

Enlighted Capabilities*	Enlighted One (ZENLO)	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 & Beaconing			✓
Future App & API Ready			✓

Note: Additional equipment required ZENLC and ZENLI

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

Learn more about our available advanced controls options here:
www.lumenfocus.com/controls-overview

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