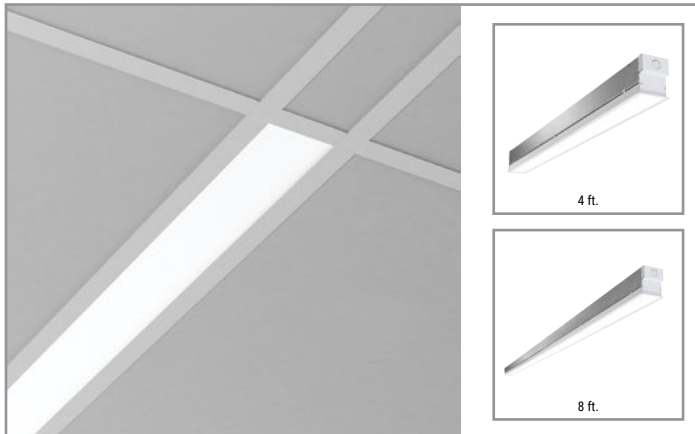


| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



Metalux

RCG LED

Linear Recessed

Typical Applications

Office • School • Healthcare • Retail

Interactive Menu

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- Photometric Data [page 3](#)
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- Control Solutions [page 4](#)
- Connected Systems [page 4](#)
- Product Warranty

Product Certification



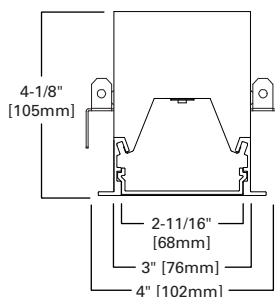
Product Features



Top Product Features

- 4" linear system with superior performance and architectural appeal
- 4' and 8' lengths available with up to 1000 lumens per foot
- Unique endcap simplifies installation in rows or individual mounting
- 3000K, 3500K, 4000K CCT at 80 or 90 CRI
- UNV 0-10V 1% dimming standard with Lutron and Dali control options

Dimensions



[additional product diagrams](#)

Order Information

SAMPLE ORDER NUMBER: **8RCG-4-56D-L835-U**

| Rating | Length | Series | Grid Space Width (in) | Lumens | Efficacy | Lens | Voltage | Emergency |
|---|--------------|--------|-------------------------|--|------------------|--|---|--|
| [Blank]=Standard ATW-SW4= Chicago Rated | 4=4' 8=8' | RCG | 4=4" grid, <3" aperture | 34D=340 Lms/ft 56D=560 Lms/ft 78D=775 Lms/ft 100D=1000 Lms/ft | [Blank]=Standard | [Blank]=Frost Flush Lens (Standard) A=Asymmetric Flush Lens | [Blank]= UNV (120-277V) 347=347V (1) 120=120V 277=277V | [Blank]=None EL7W=7-watt, 120V-277V emergency battery pack installed EL14W=14-watt 120V-277V emergency battery pack installed |
| | | | | | | | Notes (1) 347 volt options only available with standard 0-10V driver. | Notes (2) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). Battery section is 4' and located in the first half of an 8' fixture. Battery is remote mounted with ATW-SW4 option. The indicator and test switch is mounted externally in a separate J-box with flex conduit. |

| CRI/CCT | Driver | Number of Drivers | Sensor | Circuits |
|---|--|--|--|---|
| L830=80CRI, 3000K L835=80CRI, 3500K L840=80CRI, 4000K L930=90CRI, 3000K L935=90CRI, 3500K L940=90CRI, 4000K | [Blank]=HCD 1% 0-10V Dimming Driver 5LTD=Fifth Light DALI Driver (5%-100% Dimming) (E) LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming (F) L5=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver (F) | [Blank]=1 on 4 ft. fixture, 2 on 8 ft. fixture | [Blank]=None SWPD1=WaveLinX Wireless Integrated Sensor (A) LWIPD1=LumaWatt Pro Wireless Integrated Sensor (B) SVPD1=0-10V Stand-alone Integrated Sensor (D) | [Blank]=None (5) PI/CPI Options=Submit PDR for continuous rows greater than listed in performance section below |
| Notes (E) Consult Fifth Light system pages for additional details and compatibility. (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com. | | Notes (3) Sensor options are only available with standard (Blank) driver option. Integral sensors available with flush frost lens only. (A) Consult WaveLinX system pages for additional details and compatibility. (B) Consult LumaWatt Pro system pages for additional details and compatibility. (D) Consult SVPD series system pages for additional details and compatibility. | | Notes (5) Product is equipped with full length 14 gauge hot, neutral and ground wires with connectors to enable end to end wiring. Runs up to 185 feet at the highest output can be supported without additional PI/CPI wiring. For continuous runs greater than those listed in the performance details below, PI/CPI harness is required. |

| Flange Type | Flange Color | Packaging | Accessories / Replacement Parts |
|--------------------------|---------------------|-------------|--|
| [Blank]=Universal Flange | [Blank]=Matte White | U=Unit Pack | 4RCG-4-A-LENS=4' Asymmetric lens 8RCG-4-A-LENS=8' Asymmetric lens 4RCG-4-F-LENS=4' Flush lens 8RCG-4-F-LENS=8' Flush lens RCG-4-END=RCG4 end cap (replacement) RCG-LENSTOOL=RCG4 lens removal tool RCG-4-GRIDCLIP=Earthquake grid clips kit - 4 per bag kit (replacement) RCG-DWK=Drywall Kit |

Product Specifications

Construction

- Extruded aluminum rails with code-gauge sheet metal housing
- Sheet metal endcaps with KO and offset for "troffer-like" through wiring for easy row mounting
- Nominal 4' and 8' illuminated sections
- Narrow aperture (under 3") with 4 inch grid spacing

Integrated Controls

- 0-10V dimming to 1% standard
- WaveLinX sensor compatible for IoT capability
- LumaWatt Pro sensor compatible for IoT capability
- SVPD sensor compatible for out of the box functionality
- DALI 2.0 and Lutron available

LED and Light Engine

- LED's available in 3000K, 3500K, or 4000K at 80 CRI minimum and 90 CRI minimum

Emergency Battery Options

- Optional 120-277V emergency battery available in 7W or 14W
- 90-minute backup period for code compliance
- Test switch with laser pointer and testing from floor feature for ease of use
- EZ Key feature prevents accidental discharge during construction

Finish

- Full fixture housing, endplates and rails are painted after fabrication
- Fixture housing is white, electrostatically applied, polyester powder coat paint
- Aluminum rails are matte-white

Shielding

- Frosted flush lens standard
- Optional frosted flush asymmetric lens (A option) available from factory or as accessory for field installation where needed

Compliance

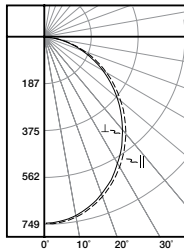
- IC rated for insulation contact
- cULus listed for damp locations
- RoHS compliant
- NYC compliant
- Tested to IESNA LM-79 and LM-80
- Stated life tested to TM21 standards
- Can be used for State of California Title 24 high efficacy luminaire

Warranty

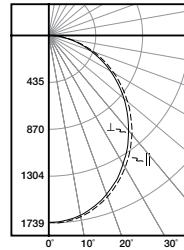
- Five year warranty standard.

Photometric Data

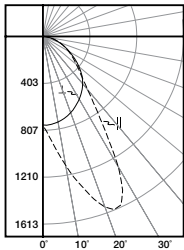
 [View IES files](#)



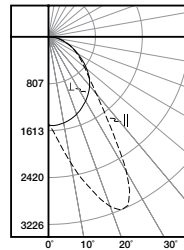
4RCG-4-56D-L835-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion: (||) 1.2 x mounting height,
 (⊥) 1.17 x mounting height
 Lumens: 2234
 Input Watts: 18.6W
 Efficacy: 120.1 LPW
 Test Report: 4RCG-4-56D-L835-U.IES



8RCG-4-56D-L835-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion: (||) 1.2 x mounting height,
 (⊥) 1.17 x mounting height
 Lumens: 4469
 Input Watts: 37.2W
 Efficacy: 120.1 LPW
 Test Report: 8RCG-4-56D-L835-U.IES



4RCG-4-56D-L835-A-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion: (||) 1.37 x mounting height,
 (⊥) 1.23 x mounting height
 Lumens: 2299
 Input Watts: 18.6W
 Efficacy: 123.6 LPW
 Test Report: 4RCG-4-56D-L835-A-U.IES



8RCG-4-56D-L835-A-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion: (||) 1.37 x mounting height,
 (⊥) 1.23 x mounting height
 Lumens: 4598
 Input Watts: 37.2W
 Efficacy: 123.6 LPW
 Test Report: 8RCG-4-56D-L835-A-U.IES

Energy and Performance Data

Energy and Performance Data by Catalog Number

| Stock Catalog Number | UPC Number | Total Length | CCT | Total Lumens | Total Watts | Lm/W |
|----------------------|-------------|--------------|-------|--------------|-------------|------|
| 4RCG-4-56D-L835-U | 80083877133 | 4' | 3500K | 2234 | 18.6 | 120 |
| 8RCG-4-56D-L835-U | 80083877140 | 8' | 3500K | 4469 | 37.2 | 120 |
| 4RCG-4-56D-L840-U | 80083877119 | 4' | 4000K | 2254 | 18.6 | 121 |
| 8RCG-4-56D-L840-U | 80083877126 | 8' | 4000K | 4514 | 37.2 | 121 |

Lumen Adjustment Factors

| CCT | 80CRI | 90CRI |
|-------|-------|-------|
| 3000K | 0.943 | 0.815 |
| 3500K | 1.000 | 0.861 |
| 4000K | 1.010 | 0.892 |

Performance Per Linear Foot at 3500K/80CRI

| Catalog Number | Nominal Lumen Output | Standard Light Engine | Current per foot (mA) @ 120V/277V | | Maximum continuous run length (FT) | |
|----------------|----------------------|-----------------------|-----------------------------------|------|------------------------------------|-----|
| | | | 120V | 277V | | |
| 34D | 340 lms/ft | 2.9 W/ft | 118 lm/W | 27 | 13 | 555 |
| 56D | 560 lms/ft | 4.7 W/ft | 120 lm/W | 43 | 21 | 348 |
| 78D | 775 lms/ft | 6.6 W/ft | 119 lm/W | 60 | 29 | 250 |
| 100D | 1000 lms/ft | 8.7 W/ft | 118 lm/W | 81 | 37 | 185 |

Example Lumen Adjustment Calculations

8RCG-4-56D-L935-U, 90CRI at 3500K
 Lumen Adjustment Factor = 0.861
 Total Light Output =
 $4,469 \text{ lm} \times 0.861 = 3,848 \text{ lm}$
 Efficacy = $3,848 \text{ lm} / 37.2 \text{ W} = 103 \text{ lm/W}$

Lumen Maintenance

| TM-21 Lumen Maintenance (60,000 hours) | Theoretical L70 (hours) |
|--|-------------------------|
| > 84% | > 162,000 |

Total Light Output Range (lms/ft)

| CCT | 80CRI | 90CRI |
|-------|----------|---------|
| 3000K | 320-943 | 277-815 |
| 3500K | 340-1000 | 293-861 |
| 4000K | 343-1010 | 303-892 |

Load Data (Stock Product)

| | 4' | 8' |
|-----------------|-------|------|
| Thd | 9% | |
| Power Factor | 0.964 | |
| Weight (lbs.) | 10.6 | 15.8 |
| Low Temp. Start | -20°C | |

Control Systems

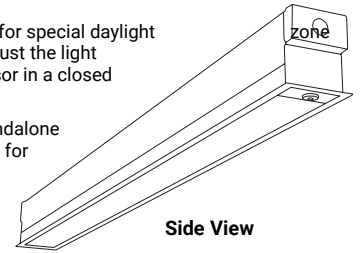
- WaveLinx
- DLVP
- LumaWatt Pro
- iLumin Plus
- VividTune

The RCG with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The RCG delivers superior lighting with integrated occupancy and daylighting controls.

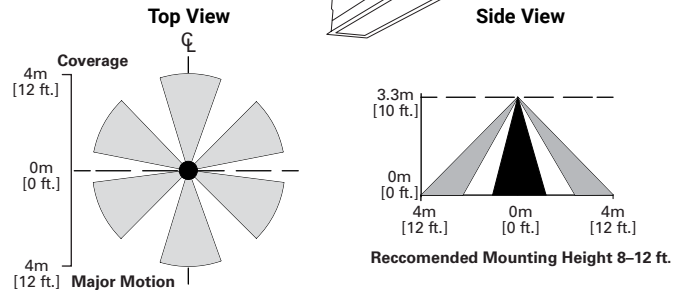
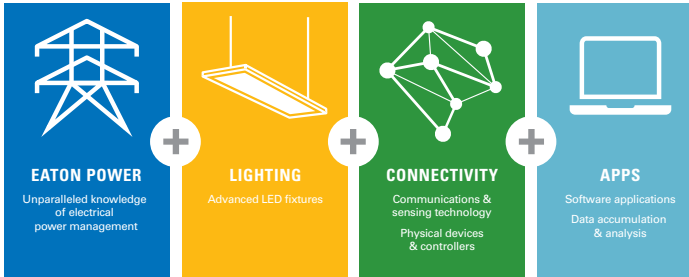
Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the RCG delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

The integral daylight sensor reduces the need for special daylight planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

The integral sensor can be offered in both standalone (SVPD1) and networked (SWPD1 and LWIPD1) for application versatility.



We make connections work



Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended.

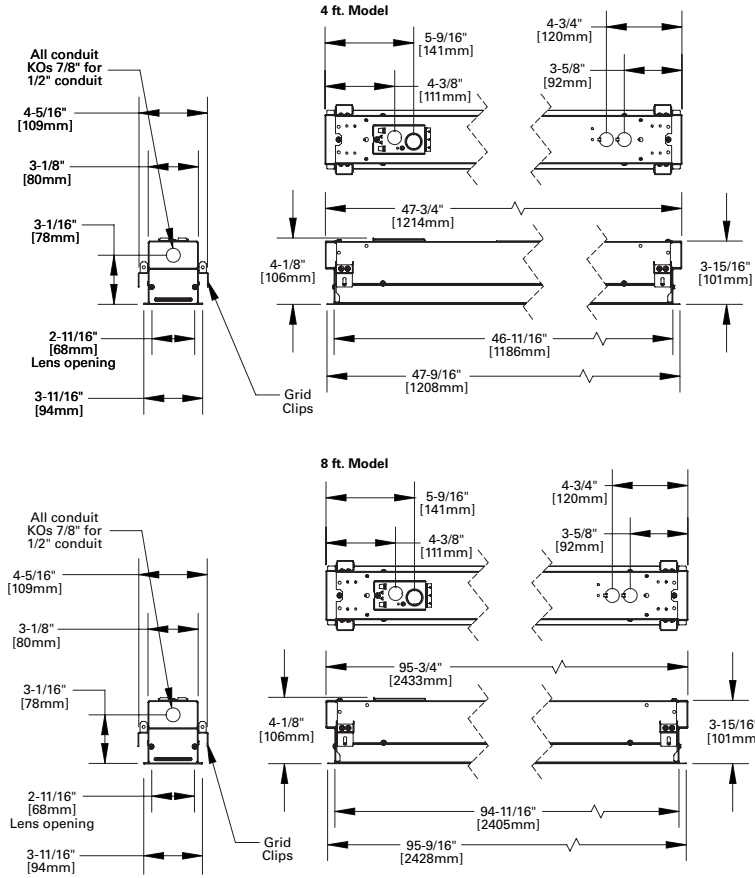
Systems comparison chart

Eaton provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.



| | Distributed Low-Voltage Power System | WaveLinx | LumaWatt Pro |
|---------------------------------------|--------------------------------------|------------------|--------------|
| Space type | Interior | Interior/Outdoor | Any |
| Stand-alone or Network | Stand-alone | Both | Network |
| Need-based feature progression | | | |
| Basic compliance only | ● | ● | ● |
| Occupancy sensing | ● | ● | ● |
| Daylight harvesting | ● | ● | ● |
| Zone control | ● | ● | ● |
| Scheduling | ● | ● | ● |
| 0-10V dimming | ● | ● | ● |
| Individual fixture control | ● | ● | ● |
| Retrofit+Building Integration | ● | ● | ● |
| Total wireless connectivity | | ● | ● |
| A/V integration | | ● | ● |
| BMS integration | | ● | ● |
| UI options (touchscreen, apps, etc.) | | ● | ● |
| Enterprise level building integration | | ● | ● |
| Facility management & tools | | ● | ● |
| Floor plan & reporting tools | | | ● |
| Value-added services | | | ● |
| Asset tracking | | | ● |
| API integration | | ● | ● |
| Analytics/higher problem solving | | | ● |

Mounting Data



Ceiling Compatibility

