

Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____

LED

RCL S 4 | LED Slide-On Strip Retrofit Kit

Features:

- High performance LED technology
- 0-10V dimming drivers standard
- Field replaceable LED boards and drivers
- Frosted diffuser helps minimize glare and improve aesthetics
- Quick, easy installation - slips on over existing 4-1/4" wide strip fixture
- All kits prewired with necessary branch circuit wiring and quick-connect to plug into previous kit in continuous row.
- Saves on installation cost, material cost, and waste
- Advanced controls available

Applications:

Suitable for most commercial, industrial and institutional applications

- Office
- Retail
- Warehouse

Predicted L70 Lifetime:

- Up to 189,000 hrs (calculated)
(L70 information for specific configurations available upon request)
- For BAA compliant configurations - up to 189,000 hrs (calculated)

Construction:

- Precision brake formed from cold rolled steel
- Highly durable matte white finish

Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations



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.)



Ordering Guide:

example: RCL S 4 MD UV FR 840 QWH(B) ZOSM EM1

Series	Length	Output	Voltage	Shielding	CRI/CCT	Wiring	Controls	Options
RCL S	4			FR				
RCL S	4 4'	LW Low	UV 120-277	FR Frosted Acrylic Diffusers	835 80 CRI/3500K	QWH Quick Wire Harness - single circuit QWH(*) Quick Wire Harness - two circuit (* specify circuit A or B)	Blank No Controls	Blank No Options
		ML Medium Low	34 347V		840 80 CRI/4000K		ZOSM Microwave Occupancy Sensor with Photocell (On/Off) ⁽¹⁾	EXT10 10-Year Extended Warranty ⁽³⁾
		MD Medium			850 80 CRI/5000K		ZOSMD Microwave Occupancy Sensor with Photocell (On/Off/Dim) ⁽¹⁾	EM1 Emergency Pack - Up to 8W ⁽⁴⁾
		MH Medium High					ZIFS Douglas IFS Sensor with Dimming/ Occupancy/Daylight Harvesting with Newtork Capabilities ⁽²⁾	EM2 Emergency Pack - Up to 16W ⁽⁴⁾
		HI High					ZIFC Douglas IFC Controller with Newtork Capabilities ⁽²⁾	CC Conformal Coating
		VH Very High					ZIFC Douglas IFC Controller with Newtork Capabilities ⁽²⁾	LVL 0-10V Dimming Leads for Easy Field Access
						ZENLO Enlighted One Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽²⁾	BAA Buy American Act Compliant	
							ZENLC Enlighted Connected Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽²⁾	
							ZENLI Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting ⁽²⁾	

Notes

⁽¹⁾ 120-277V only. See page 4 for more details.

⁽²⁾ See page 5 for more details.

⁽³⁾ Not available on all models. Certain conditions apply.
Consult factory or sales representative for details.

⁽⁴⁾ 120-277V only / 0°C-50°C ambient.

Accessories (sold separately)

Notes

⁽¹⁾ 120-277V only. See page 4 for more details.

⁽²⁾ See page 5 for more details.

⁽³⁾ Not available on all models. Certain conditions apply.

Consult factory or sales representative for details.

⁽⁴⁾ 120-277V only / 0°C-50°C ambient.

Accessories (order separately)

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

Controls Accessories (order separately)



For Douglas Controls

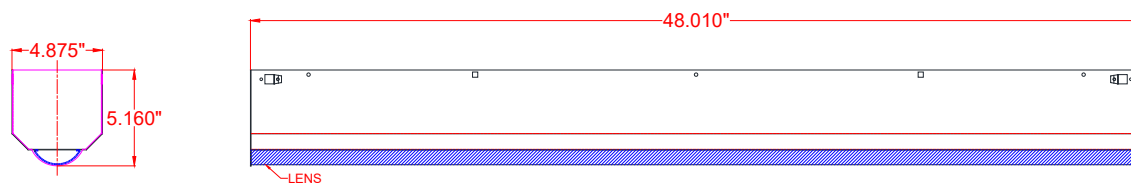
BT-DMSW-U-A Bluetooth 1 Zone Dimmer
BT-4BTSW-U-A Bluetooth 4-Button Wall Station
BT-8BTSW-U-A Bluetooth 8-Button Wall Station



For Enlighted Controls

WS-2-00 Enlighted Remote Control Wall Switch
(for Enlighted Connected & IoT)
WS-2-00-IL Enlighted Remote Control Wall Switch
(for Enlighted One)

Schematic:



Performance Chart:

Catalog #	Lumens	Watts	LPW
RCL S 4 LW UV FR 835	2416	17	142.1
RCL S 4 ML UV FR 835	2917	20	145.9
RCL S 4 MD UV FR 835	3992	28	145.2
RCL S 4 MH UV FR 835	4815	34	141.6
RCL S 4 HI UV FR 835	6006	44	136.5
RCL S 4 VH UV FR 835	7750	60	129.2

Catalog #	Lumens	Watts	LPW
RCL S 4 LW UV FR 840	2496	17	146.8
RCL S 4 ML UV FR 840	3014	20	150.7
RCL S 4 MD UV FR 840	4124	28	150.0
RCL S 4 MH UV FR 840	4974	34	146.3
RCL S 4 HI UV FR 840	6205	44	141.0
RCL S 4 VH UV FR 840	8007	60	133.4

Catalog #	Lumens	Watts	LPW
RCL S 4 LW UV FR 850	2571	17	151.2
RCL S 4 ML UV FR 850	3104	20	155.2
RCL S 4 MD UV FR 850	4248	28	154.5
RCL S 4 MH UV FR 850	5124	34	150.7
RCL S 4 HI UV FR 850	6391	44	145.3
RCL S 4 VH UV FR 850	8247	60	137.4

Photometric Data:

RCL S 4 MD UV FR 850

Test No.: LLIA000730-001

Luminaire Lumens: 4,248 lm

Luminaire Watts: 27.5W

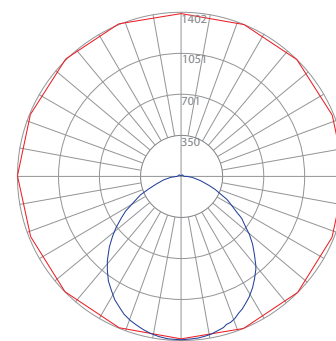
Efficacy: 154.5 LPW

Spacing Criterion (0-180): 1.26

Spacing Criterion (90-270): 1.30

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13128	12232	11965
55	11467	10941	10862
65	9358	9382	9441
75	7152	7786	7738
85	5878	6695	6230



— Vert. Plane
— Horiz. Cone

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

RC		80				70					50				30	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104		
1	107	102	97	93	104	99	95	92	95	91	88	90	87	85		
2	97	89	82	76	94	86	80	74	82	77	72	79	74	70		
3	89	78	69	63	86	76	68	62	72	66	60	69	64	59		
4	81	69	60	53	78	67	59	52	64	57	51	62	55	50		
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44		
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38		
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34		
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30		
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27		
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25		

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



The RCL S 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.](#)



ZOSM option: Leviton High Frequency Microwave Sensor

The RCL S can be equipped with an integrated Leviton high frequency microwave sensor ("ZOSM" option). The ZOSM detects motion through low density materials allowing it to be installed out of site, under the RCL S'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 based on motion and ambient light level
- Designed to detect movement behind low-density fixture materials or behind objects made of plastic or glass
- up to 32' mounting height
- Detection Zone: 52' diameter x 32' Height Max
- IP20 rated
- 120-277V

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

The RCL S 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'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 49' mounting height
- Detection Zone: 52' diameter x 49' Height Max
- Standby Dimming Level: 10% / 20% / 30% / 50%
- IP20 rated
- 120-277V



Douglas Lighting Controls, Inc.: Cloud-based controls

The RCL S can be equipped with the Douglas Bluetooth Intelligent Fixture Sensor (IFS) as well as the Intelligent Fixture Controller.

IFS



- Occupancy, vacancy, partial-on and partial-off
- Occupancy timeout adjustable from 5 to 90 minutes
- Primary and secondary daylight harvesting
- Up to 16.4' (5m) mounting height

IFC



- Listed for emergency control when used on dedicated emergency power bus
- Same occupancy and daylight controls as the IFS when networked with one or more IFS sensors

Available with both IFS and IFC:

- 0-10V dimming with dim-to-off
- Bluetooth beacon for digital ceiling, IoT and location service strategies
 - 150-foot clear line of sight, 50 feet through standard walls
- May be used with dual-channel, tunable white LED drivers providing auxiliary power and dim-to-off capability
- Commissioning through Douglas Lighting Controls, Inc. app from Apple app store
 - **Note:** Additional equipment required for IoT capabilities

CheckLight® Energy Management System

Douglas controls can be integrated with the CheckLight® Energy Management system. This system can help you uncover energy conversion opportunities, create conservation strategies, analyze lighting load inefficiencies, and make configuration changes from anywhere with Douglas' user-friendly interface. You can get measurements, reports, and control your system from a web-based application.

CheckLight® has the capability to look at different facilities within a portfolio and use data benchmarks to compare building performances.

- Find energy conservation opportunities
- Create energy saving strategies
- Analyze load inefficiencies
- Optimize energy management

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.

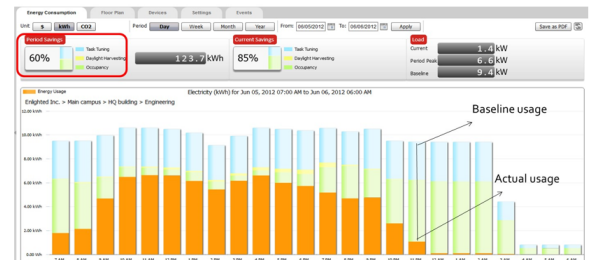
Enlighted sensors come standard with the Enlighted One system (the "ZENLO" option). Enlighted Connected ("ZENLC") offers even more options. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Each system can be fully upgraded to the next tier in the future. So if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



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



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 & Beacons			✓
Future App & API Ready			✓

Note: Additional equipment required ZENLC and ZENLI

Learn more about our available advanced controls options here:

www.lumenfocus.com/controls-overview

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