



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



ECL G2 2 | LED Strip

Features:

- High performance LED technology
- 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
- 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

Ambient Operating Temp.:

- -30°C to 40°C

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 cold rolled steel with a highly durable matte white finish. Optional matte black and metallic silver options constructed of brake formed aluminum

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/>



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.)



example: ECL G2 2 MD UV FR 940

Notes

(7) " " for 2-circuit wiring, specify circuit A or B here.

WG(ECL2) Wire Guard

For Leviton Intellect Solo Sensor
ZLS0R-RA1 IR Programming Remote



For WattStopper Controls
FSIR-100 Wireless IR Programming Tool
(For Z211Lx)



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

Z211L_ Wattstopper FSP Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	D6 6' Dual Circuit Cord
Z311L_ Wattstopper FSP Bluetooth-enabled Programmable Photo/Motion Multi- Voltage Sensor (high/low/off) ⁽²⁾	D10 10' Dual Circuit Cord
ZOSMD Microwave Daylight/Motion Sensor With Step-Dimming (High/Low/Off) ⁽³⁾	P(NEMA) Plug (Specify NEMA configuration)
ZLDS Leviton Intellect DALI Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽⁴⁾	SC Safety Cable
ZL7S Leviton Intellect 0-10V Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽⁴⁾	F Fuse
ZLDC Leviton Intellect DALI Fixture Controller with Newtork Capabilities ⁽⁴⁾	EM6 6.5W Emergency Pack ⁽⁶⁾
ZL7C Leviton Intellect 0-10V Fixture Controller with Newtork Capabilities ⁽⁴⁾	EM10 10W Emergency Pack ⁽⁶⁾
ZENLO Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted One System ⁽⁴⁾	EM14 14W Emergency Pack ⁽⁶⁾
ZENLC Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System ⁽⁴⁾	QWH(_) Quick Wire Harness ⁽⁷⁾
ZENLI Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System ⁽⁴⁾	SDT(480V) 480V to 277V Step Down Transformer
	CC Conformal Coating
	LVL 0-10V Dimming Leads for Easy Field Access
	BAA Buy American Act Compliant



Performance Chart:

Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
ECL G2 2 LW UV FR 9xx	8.5	1050.9	123.5	1055.3	124.0	1080.4	127.0	1080.4	127.0
ECL G2 2 ML UV FR 9xx	12.1	1561.9	129.1	1568.5	129.6	1605.8	132.7	1605.8	132.7
ECL G2 2 MD UV FR 9xx	16.0	2032.9	127.4	2041.5	128.0	2089.9	131.0	2089.9	131.0
ECL G2 2 HI UV FR 9xx	22.6	3092.9	137.1	3105.9	137.7	3179.7	141.0	3179.7	141.0
ECL G2 2 VH UV FR 9xx	29.1	4056.3	139.6	4073.4	140.2	4170.2	143.5	4170.2	143.5
ECL G2 2 SH UV FR 9xx	37.3	5076.3	136.2	5097.6	136.8	5218.7	140.1	5218.7	140.1
ECL G2 2 LW UV 9xx	8.5	1110.8	130.5	1115.4	131.1	1141.9	134.2	1141.9	134.2
ECL G2 2 ML UV 9xx	12.1	1650.9	136.5	1657.9	137.0	1697.3	140.3	1697.3	140.3
ECL G2 2 MD UV 9xx	16.0	2148.7	134.7	2157.7	135.3	2209.0	138.5	2209.0	138.5
ECL G2 2 HI UV 9xx	22.6	3269.0	145.0	3282.8	145.6	3360.8	149.0	3360.8	149.0
ECL G2 2 VH UV 9xx	29.1	4287.4	147.6	4305.5	148.2	4407.7	151.7	4407.7	151.7
ECL G2 2 SH UV 9xx	37.3	5365.4	143.8	5388.0	144.4	5516.0	147.8	5516.0	147.8

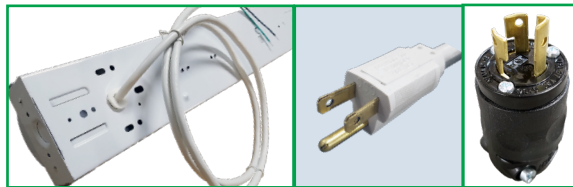
Options:



Shielding Frosted acrylic diffuser lenses minimize glare and improve aesthetics.

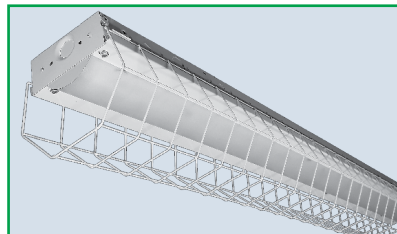


Conformal coating Grants LED boards added protection from moisture and corrosion in more hazardous environments.



Cords are available in single circuit or dual circuit, 6' or 10'. Standard plug is optional, as are other NEMA configurations if specified.

Wireguards are available for added protection (shipped separately).

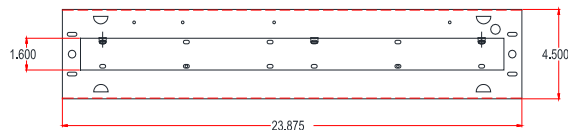


Hanging The QC hanging kit (1) comes in 10' or 20'. Cables are pre-looped for easy installation and designed for easy fixture height adjustment. V-hangers and slide hangers are also optional.

Finish in addition to the standard white finish, the ECL G2 is also available in matte black (pictured) and metallic silver.



Schematic:



LUMENFOCUS Re-boardABILITY

The ECL 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.](#)



Controls Summary:

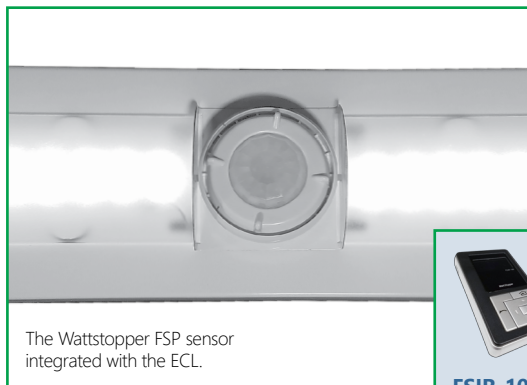
Control Code	Type	Capabilities	Communication
ZSOL	Motion (PIR), Daylight Harvesting	High/Low/Off	Wired 0-10V, Programmable via IR remote (sold separately)
ZLD1	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
ZLDU	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
Z211Lx	Motion (PIR), Photosensor	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via IR remote (sold separately)
Z311Lx	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)
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 (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)
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

LLC = Luminaire Level Lighting Control

* Additional equipment required. Contact LumenFocus representative for details

Dimming Sensors (Z211/Z311)

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- Comes pre-installed on the fixture
- Rated for cold locations
- Parameters for Bluetooth-enabled Z311 adjustable via phone app - iOS or Android
- Parameters for Z211 adjustable via wireless configuration tool (FSIR-100 - sold separately)
- Available with black lens for black finishes (pictured right)
- Two lenses available, tailored for the ideal detection area and mounting height:
 - **L2: 360° lens, maximum coverage 48', diameter from 8' height**
 - **L3: 360° lens, maximum coverage 40', diameter from 20' height**



The Wattstopper FSP sensor integrated with the ECL.



FSIR-100



Phone app interface for Z311 sensor

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 ECL 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 ECL 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.



Smart Sensors (ZLD1/ZLDU)

The ZLDx option includes high bay and low bay lenses along with aisleway masks that can easily be installed or swapped out in the field. **The high bay lens is good for 20'-40' mounting heights, while the low bay lens is good for 8'-20' mounting heights.**

- Leviton Smart IP66 passive infrared (PIR) sensors
- Features mesh grouping (16 devices per group), occupancy sensing, daylight harvesting, scheduling (for ZLDU only), single-level switching
- Comes pre-installed on the center face of the fixture
- Rated for cold locations
- Configurable through the Leviton Smart Sensor App using a smartphone or other Bluetooth-enabled iOS or Android device



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 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.



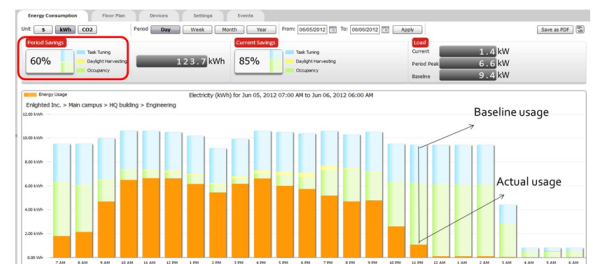
Enlighted Capabilities*	Enlighted One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
Motion and Switch Groups	✓	✓	✓
Daylight Harvesting	✓	✓	✓
Schedule Lighting		✓	✓
Energy Reporting & Optimization		✓	✓
Environment Data & Lighting Controls API		✓	✓
Building Management System Integration		✓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

Note: Additional equipment required for 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

© 2023 Enlighted for all Enlighted content and images.

© 2023 Leviton Manufacturing Co. Inc. for all Leviton content and images.

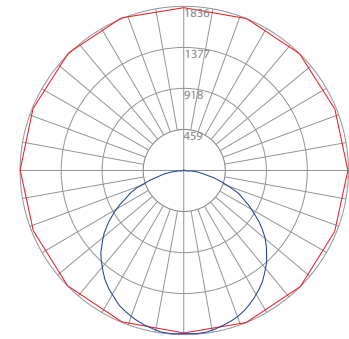


Photometric Data:

ECL G2 2 SH UV 950

Test No.: LLIA001735-011A
 Luminaire Lumens: 5,516 lm
 Luminaire Watts: 37.3W
 Efficacy: 147.8 LPW
 Spacing Criterion (0-180): 1.30
 Spacing Criterion (90-270): 1.32

Luminance Data (cd/sq.m)			
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26197	25361	25281
55	25667	24530	24031
65	24107	22269	21675
75	20356	17428	17040
85	11213	7741	7259



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	674.90	12.20
0-30	1445.02	26.20
0-40	2391.81	43.40
0-60	4324.81	78.40
0-80	5425.51	98.40
0-90	5515.51	100.00
90-120	0.51	0.00
90-130	0.51	0.00
90-150	0.51	0.00
90-180	0.51	0.00
0-180	5516.02	100.00

Coefficients Of Utilization - Zonal Cavity Method

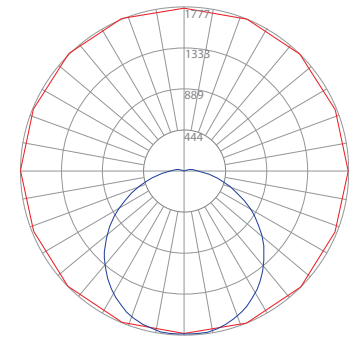
RC			80				70					50			30			
RW		70	50	30	10		70	50	30	10		50	30	10		50	30	10
0		119	119	119	119		116	116	116	116		111	111	111		106	106	106
1		109	104	100	96		106	102	98	94		97	94	91		93	91	88
2		99	90	83	78		96	88	82	77		85	79	75		81	77	73
3		90	79	71	64		87	77	70	64		74	68	62		72	66	61
4		82	70	61	54		80	68	60	54		66	59	53		64	57	52
5		75	62	53	46		73	61	53	46		59	51	46		57	50	45
6		69	56	47	40		67	55	46	40		53	45	40		51	45	39
7		64	51	42	35		63	50	41	35		48	41	35		47	40	35
8		60	46	37	32		58	45	37	31		44	37	31		43	36	31
9		56	42	34	28		54	42	34	28		40	33	28		39	33	28
10		52	39	31	26		51	38	31	26		37	30	25		36	30	25

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

ECL G2 2 SH UV FR 950

Test No.: LLIA001735-013
 Luminaire Lumens: 5,219 lm
 Luminaire Watts: 37.3W
 Efficacy: 140.1 LPW
 Spacing Criterion (0-180): 1.24
 Spacing Criterion (90-270): 1.28

Luminance Data (cd/sq.m)			
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21651	21091	21287
55	18581	19027	19553
65	14656	16516	17296
75	10407	13966	14715
85	5463	12715	13022



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	650.53	12.50
0-30	1383.00	26.50
0-40	2263.42	43.40
0-60	3961.89	75.90
0-80	4933.95	94.50
0-90	5123.07	98.20
90-120	95.78	1.80
90-130	95.78	1.80
90-150	95.78	1.80
90-180	95.78	1.80
0-180	5218.86	100.00

Coefficients Of Utilization - Zonal Cavity Method

RC			80				70					50			30			
RW		70	50	30	10		70	50	30	10		50	30	10		50	30	10
0		119	119	119	119		116	116	116	116		110	110	110		105	105	105
1		108	103	98	94		105	100	96	92		95	92	89		91	88	86
2		98	89	82	76		95	87	81	75		83	78	73		80	75	71
3		89	78	70	63		86	77	69	63		73	67	61		70	65	60
4		82	69	60	54		79	68	60	53		65	58	52		63	56	51
5		75	62	53	46		73	61	52	46		58	51	45		56	50	44
6		69	56	47	40		67	55	46	40		53	45	40		51	44	39
7		64	51	42	36		62	50	41	35		48	40	35		46	40	35
8		60	46	38	32		58	45	37	32		44	37	31		42	36	31
9		56	42	34	29		54	42	34	28		40	33	28		39	33	28
10		52	39	31	26		51	38	31	26		37	30	26		36	30	25

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

