LumenF@cus



Project:
Location:
Cat. #:
Туре:
Quantity:



ECL G2 8 | 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

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: \geq 129,000 hrs (calculated)
- L80: \geq 81,000 hrs (calculated)
- L90: ≥ 39,000 hrs (reported)

• 85% lumen maintenance @ 60,000 hrs (based on LM80 and insitu laboratory testing)



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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/



Warranty:

- 5 year limited system warranty see <u>www.LumenFocus.com</u> 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.)







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ECL G2 8 | LED STRIP

example: ECL G2 8 MD UV FR 940

Ordering Guide:

Series	Version	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options	Finish
ECL	G2	8								
ECL	G2 Gen 2	8 8'	LW Low	UV 120-277	Blank No Lenses	930 90 CRI/3000K	Blank	Blank No Controls	Blank No Options	Blank
			ML	34	FR	935	VC	ZSOL	EXT10	BK Matte Black
			Medium Low	347V	Frosted Acrylic Diffusers	90 CRI/3500K	V-Chain Hangers	Leviton Intellect Solo PIR Sensor ⁽¹⁾	10-Year Extended Warranty ⁽⁸⁾	SL
			Medium			90 CRI/4000K	10' Quick Hang Cable Kit	ZLD1 Leviton Bluetooth-enabled	6' Single Circuit Cord	Metallic Silv
			MH Medium High			950 90 CRI/5000K	QC20 20' Quick Hang	Programmable Dimming/ Occupancy/Daylight Harvesting Sensor with	C65W 6' Single Circuit Cord with Low Voltage Connections	
			HI High				Cable Kit	Grouping (120-277V) ⁽²⁾	C10	
			VH Very High				SH Slide Hanger	ZLDU Leviton Bluetooth-enabled Programmable Dimming/	10' Single Circuit Cord C105W	
			SH					Occupancy/Daylight Harvesting Sensor with	10' Single Circuit Cord with Low Voltage Connections	
			Super High					Grouping, Scheduling (120-480V) ⁽²⁾	D6 6' Dual Circuit Cord	
I		1		1		1		Z211L_ Wattstopper FSP	Duar Circuit Cord	
lotes								Programmable Photo/Motion Multi-Voltage Sensor	10' Dual Circuit Cord	
			Page 4 for me Page 4 for m					(high/low/off) ⁽³⁾	Plug (Specify NEMA configuration)	
"_" = lens	type. See F	Page 4 for	lens descript Page 4 for m	ions.				Wattstopper FSP Bluetooth- enabled Programmable	SC	
⁾ See Page	e 5 for more	details.	e Page 5 for		S.			Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽³⁾	Safety Cable	
) Not availa	able on all r	nodels. Ce	Page 5 for m ertain conditi		Consult factory	or		ZOSMD	Fuse	
EM1 and		77V / 0°C-	50°C ambien circuit A or B					Microwave Daylight/Motion Sensor With Step-Dimming	EM1 Emergency Pack - Up to 8W ⁽⁹⁾	
								(High/Low/Off) ⁽⁴⁾	EM2 Emergency Pack - Up to 16W ⁽⁹⁾	
ACCESS /G(ECL8)	Wire Gu		eparately	/)				ZIFS Douglas IFS sensor with dimming/occupancy/daylight	QWH(_) Quick Wire Harness ⁽¹⁰⁾	
			ioc ()					harvesting and network capabilities ⁽⁵⁾	SDT(480V)	
			ies (orde	er separo	itely)			ZIFC	480V to 277V Step Down Transformer	
E BT	r Douglas (-DMSW-U-, -4BTSW-U-	A Blu	uetooth 1 Zoi uetooth 4-Bu	ne Dimmer tton Wall St	ation			Douglas IFC controller with network capabilities ⁽⁶⁾	CC Conformal Coating	
	-8BTSW-U-		letooth 8-Bu					ZENLO Enlighted Micro Sensor	LVL 0-10V Dimming Leads for Easy	
	r Enlighted 5-2-00		; lighted Remo	ote Control	Wall			with Dimming/Occupancy/ Daylight Harvesting and Enlighted One System ⁽⁷⁾	Field Access	
	itch 5-2-00-IL	(fo En	r Enlighted (lighted Remo	Connected & ote Control	& IoT)			ZENLC	BAA Buy American Act Compliant	
	ritch	,	r Enlighted (Dne)				Enlighted Micro Sensor with Dimming/Occupancy/ Daylight Harvesting and		
	r WattStop R-100	Wi	reless IR Pro	gramming ⁻	īool			Enlighted Connected System ⁽⁷⁾		
8		(FC	or Z211Lx)					ZENLI Enlighted Micro Sensor		
	r Leviton Ir SOR-RA1		olo Controls reless IR Pro		īool			with Dimming/Occupancy/ Daylight Harvesting and		
			or ZSOL)	5 5				Enlighted IoT System ⁽⁷⁾		
Ŕ										
2022 Lum	enFocus, LLC.					www.lumenfoc	is com		ECI	G2 8 LED

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Schematic:

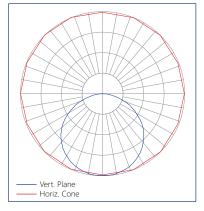


Performance Chart:

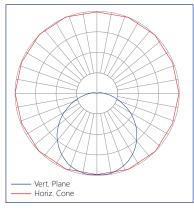
Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
ECL G2 8 LW UV FR 9xx	28.5	4249.9	148.9	4267.8	149.5	4369.2	153.1	4369.2	153.1
ECL G2 8 ML UV FR 9xx	43.1	6316.6	146.6	6343.2	147.2	6493.9	150.7	6493.9	150.7
ECL G2 8 MD UV FR 9xx	58.2	8221.1	141.3	8255.8	141.9	8451.8	145.2	8451.8	145.2
ECL G2 8 MH UV FR 9xx	68.1	10253.6	150.5	10296.8	151.1	10541.3	154.7	10541.3	154.7
ECL G2 8 HI UV FR 9xx	85.1	12507.7	146.9	12560.4	147.5	12858.8	151.0	12858.8	151.0
ECL G2 8 VH UV FR 9xx	112.6	16404.0	145.7	16473.2	146.4	16864.4	149.8	16864.4	149.8
ECL G2 8 SH UV FR 9xx	146.7	20528.6	139.9	20615.1	140.5	21104.8	143.9	21104.8	143.9
ECL G2 8 LW UV 9xx	28.5	4467.1	156.5	4485.9	157.1	4592.5	160.9	4592.5	160.9
ECL G2 8 ML UV 9xx	43.1	6639.4	154.1	6667.4	154.8	6825.8	158.4	6825.8	158.4
ECL G2 8 MD UV 9xx	58.2	8641.3	148.5	8677.7	149.1	8883.8	152.7	8883.8	152.7
ECL G2 8 MH UV 9xx	68.1	10777.6	158.2	10823.0	158.8	11080.1	162.6	11080.1	162.6
ECL G2 8 HI UV 9xx	85.1	13147.0	154.4	13202.4	155.1	13516.0	158.7	13516.0	158.7
ECL G2 8 VH UV 9xx	112.6	17242.4	153.2	17315.1	153.8	17726.4	157.5	17726.4	157.5
ECL 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 ECL G2 - no lens



Relative Luminous Intensity ECL G2 - with Frosted Diffuser



Re-board ABILITY

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.





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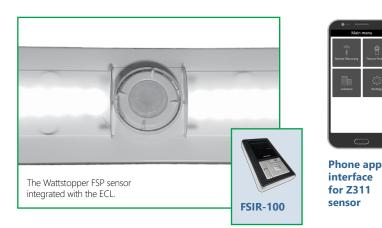
Control Code	Туре	Capabilities	Communication	
ZSOL	Motion (PIR), Daylight Harvesting	High/Low/Off	Wired 0-10V, Programmable via IR remote (sold separately)	
ZLD1	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping	Wired 0-10V, Programmable via Bluetooth App (iOS, Android)	
ZLDU	Motion (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	
ZIFS	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, LLLC (Douglas Lighting Controls-Dialog)*	Wireless Bluetooth Mesh, Programmable via iOS App or Douglas Dialog Software	
ZIFC	Controller, No Sensors	High/Low/Off, High-End Trim, Grouping, LLLC (Douglas Lighting Controls-Dialog)*	Wireless Bluetooth Mesh, Programmable via iOS App or Douglas Dialog Software	
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

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)
- Three lenses available, tailored for the ideal detection area and mounting height:
 L2: 360° lens, maximum coverage 48′, diameter from 8′ height
 - L3: 360º lens, maximum coverage 40', diameter from 20' height





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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
- Comes pre-installed on the center face of th
 Rated for cold locations
- Configurable through the Leviton Smart Sensor App using a smartphone or other Bluetoothenabled iOS or Android device



Universal Douglas: Cloud-based controls

The ECL G2 can be equipped with the Douglas Bluetooth Intelligent Fixture Sensor (IFS) as well as the Intelligent Fixture Controller.

IFC IFS

- Occupancy, vacancy, partial-on and partial-off
- Occupancy timeout adjustable from 5 to 90 minutes
- Primary and secondary daylight harvesting
- 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 dimto-off capability
- Commissioning through Douglas Lighting Controls, Inc. app from Apple app store

Note: Additional equipment required for IoT capabilities; max mounting height for sensor: 16.4 ft

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 for ZENLC and ZENLI

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

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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Other 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.



