LumenFécus



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



ECL N G2 2 | LED Narrow 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 and institutional applications

- Office
- Retail
- Coves
- Valences

Ambient Operating Temp.:

- -30°C to 40°C [LW, ML, MD, HI]
- -30°C to 35°C [VH]
- -30°C to 30°C [SH]

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 <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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Ordering Guide:

eries	Version	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options	Finis
CLN	G2	2								
CLN Jarrow Strip	G2 Gen 2	2 24"	LW Low	UV 120-277	Blank No Lenses	930 90 CRI/3000K	Blank None	Blank No Controls	Blank No Options	Blan White
Strip			ML Medium Low	34 347V	FR Frosted Acrylic	935 90 CRI/3500K	QC 10' Quick Hang	ZSOL Leviton Intellect Solo Programmable	EXT10 10-Year Extended	BK Matte B
			MD		Diffusers	940	Cable Kit	PIR/Daylight Harvesting Sensor ⁽¹⁾	Warranty ⁽⁴⁾	SL
			Medium HI High			90 CRI/4000K 950 90 CRI/5000K	SH Slide Hanger	ZLD1 Leviton Bluetooth-enabled Programmable Dimming/Occupancy/ Daylight Harvesting Sensor with	C6 6' Single Circuit Cord C65W	Metallic
			νн					Grouping (120-277V) ⁽¹⁾	6' Single Circuit Cord with Low Voltage Connections	
			Very High SH					ZLDU Leviton Bluetooth-enabled	C10	
			3⊓ Super High					Programmable Dimming/Occupancy/ Daylight Harvesting Sensor with Grouping, Scheduling (120-480V) ⁽¹⁾	10' Single Circuit Cord C105W	
								Z211L	10' Single Circuit Cord with Low Voltage Connections	
otes								Wattstopper FSP Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	D6 6' Dual Circuit Cord	
	4 for more	e details.						Z311L_ Wattstopper FSP Bluetooth-enabled	D10 10' Dual Circuit Cord	
_" = lens		Page 4 for	⁻ more detai	ls.				Programmable Photo/Motion Multi- Voltage Sensor (high/low/off) ⁽²⁾	P(NEMA)	
lot avail		models. C	ertain cond	itions apply	. Consult facto	ory or		ZOSMD	Plug (Specify NEMA configuration)	
20-2 ['] 77V	′ / 0°C-55°(C ambient.	To estimate vattage by th					Microwave Daylight/Motion Sensor With Step-Dimming (High/Low/Off) ⁽¹⁾	СС	
f the lum	inaire it is ir	nstalled in.	M4 → 130.0						Conformal Coating	
			circuit A or		520			Leviton Intellect DALI Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽³⁾	0-10V Dimming Leads for Easy Field Access	
								ZL7S	EM4 4W Emergency Pack ⁽⁵⁾	
<u> </u>			ries <i>(ore</i> Solo Sensor		arately)			Leviton Intellect 0-10V Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽³⁾	QWH(_) Quick Wire Harness ⁽⁶⁾	
	SOR-RA1		R Programm		te			ZLDC	AC Aligner Clips for Continuous	
								Leviton Intellect DALI Fixture Controller with Newtork Capabilities ⁽³⁾	Row Mounting	
FO FS	or WattSto IR-100	pper Con	trols /ireless IR Pr	oorammin	a Tool			ZL7C	BAA Buy American Act	
			or Z211Lx)	ogrammin	9 1001			Leviton Intellect 0-10V Fixture Controller with Newtork Capabilities ⁽³⁾	Compliant	
Fo	vr Leviton	Intellect N	Vetworked	Controls				ZENLO Enlighted Micro Sensor with		
DF	RKDN-U1W RKDN-U2W	' 1-	Button Wire	eless Wall C				Dimming/Occupancy/Daylight Harvesting and Enlighted One		
	RKDN-U2W RKDN-U2W	/ 4	-Button Win -Button Win	eless Wall (Controller			System ⁽³⁾		
					Lontroller			ZENLC Enlighted Micro Sensor with		
	or Enlighte S-2-00	E	nlighted Rer		ol Wall Switch	I		Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System ⁽³⁾		
	S-2-00-IL	E	2	note Contr	ol Wall Switch	I		ZENLI		
		(†	or Enlightec	i Une)				Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System ⁽³⁾		
								System		

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ECL N G2 2 | LED STRIP

Performance Chart:

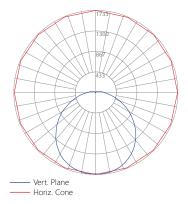
Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
ECL N G2 2 LW UV FR 9xx	8.5	1043.2	122.6	1047.6	123.1	1072.5	126.0	1072.5	126.0
ECL N G2 2 ML UV FR 9xx	12.1	1550.5	128.1	1557.0	128.7	1594.0	131.7	1594.0	131.7
ECL N G2 2 MD UV FR 9xx	16.0	2018.0	126.5	2026.5	127.0	2074.6	130.0	2074.6	130.0
ECL N G2 2 HI UV FR 9xx	22.6	3070.2	136.1	3083.1	136.7	3156.3	140.0	3156.3	140.0
ECL N G2 2 VH UV FR 9xx	29.1	4026.6	138.6	4043.5	139.2	4139.6	142.5	4139.6	142.5
ECL N G2 2 SH UV FR 9xx	37.5	5039.0	134.4	5060.2	134.9	5180.4	138.1	5180.4	138.1

Photometric Data:

ECL N G2 2 SH UV FR 950	Luminance Angle In	Data (cd/sq		Avorado	
Test No.: LLIA001735-003	Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg	
Luminaire Lumens: 5,181 lm	5	5	5	5	
Luminaire Watts: 37.5W	45 55	37395 32025	34170 29930	33728 29880	
Efficacy: 138.1 LPW	65	25387	25001	25342	
Spacing Criterion (0-180): 1.24	75	18224	20046	20261	
Spacing Criterion (90-270): 1.30	85	10069	16257	15967	

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

	 		y nei		 				_				_			
RC		80				70					50				30	
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10
0	118	118	118	118	115	115	115	115		109	109	109		104	104	104
1	107	102	98	93	104	99	95	92		95	91	88		90	87	85
2	97	89	82	76	94	87	80	75		82	77	72		79	74	70
3	89	78	70	63	86	76	68	62		73	66	61		69	64	59
4	81	69	60	53	79	67	59	53		64	57	52		62	56	51
5	75	62	53	46	72	60	52	45		58	50	45		55	49	44
6	69	56	47	40	67	54	46	40		52	45	39		50	44	38
7	64	50	42	35	62	49	41	35		47	40	35		46	39	34
8	60	46	37	32	58	45	37	31		43	36	31		42	35	31
9	56	42	34	28	54	41	34	28		40	33	28		39	32	28
10	52	39	31	26	51	38	31	26		37	30	25		36	29	25



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	633.40	12.20
0-30	1347.60	26.00
0-40	2205.51	42.60
0-60	3854.77	74.40
0-80	4806.00	92.80
0-90	4997.88	96.50
90-120	155.62	3.00
90-130	168.21	3.20
90-150	179.49	3.50
90-180	182.65	3.50
0-180	5180.53	100.00

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

Schematic:



Length (L) = 24.00" Width (W) = 2.50" Height (H) = 2.165"



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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Controls Summary:

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
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

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 below)
- 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





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 ECLN'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 is 40 feet.



Leviton Intellect Solo Dimming Sensor (ZSOL)

The ECLN 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 Bluetoothenabled iOS or Android device

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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



Wireless fixture controller, no sensor0-10V 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 One

(ZENLO)

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Enlighted

Connected (ZENLC)

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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

IoT (ZENLI)

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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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Enlighted Capabilities*

Motion and Switch Groups

Energy Reporting & Optimization

Where & Space Applications

Future App & API Ready

Environment Data & Lighting Controls API

Building Management System Integration

Location & Occupancy APIs & Beaconing

Daylight Harvesting Schedule Lighting

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Note: Additional equipment required for ZENLC and ZENLI

Other Options:



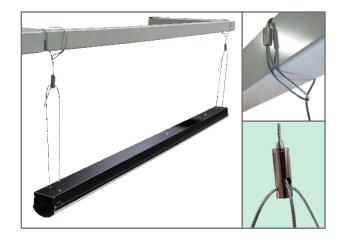
Shielding Frosted acrylic diffuser lenses minimize glare and improve aesthetics.



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.



Hanging The QC hanging kit from ALP comes in 10' or 20'. Cables are pre-looped for easy installation and designed for easy fixture height adjustment. When ordered, QCs come boxed with each fixture.

