

Note: This product has been discontinued and replaced with the ECLN G2.



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

LED

ECLN 4 | LED Narrow Strip

Features:

- High performance LED technology
- 0-10V dimming drivers standard
- Field replaceable LED boards and drivers
- Frosted diffuser helps minimize glare and improve aesthetics
- Advanced controls available

Applications:

Suitable for most commercial and institutional applications

- Office
- Retail
- Coves
- Valences

Ambient Operating Temp.:

- -30°C to 35°C for VH models
- -30°C to 40°C for all other models

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. Optional matte black or metallic silver finish

Certifications:

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



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: ECL N 4 MD UV FR 840 QC BK

Series	Width	Length	Output	Performance	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options	Finish			
ECL	N	4												
ECL	N	4 46" (48" Optional)	LW Low	Blank Standard	UV 120-277	Blank No Lenses	835 80 CRI/3500K	Blank None	Blank No Controls	Blank No Options	Blank White			
			MD Medium	HE High Efficiency	34 347V	FR Frosted Acrylic Diffusers	840 80 CRI/4000K	QC 10' Quick Hang Cable Kit				ZSOL Leviton Intellect Solo PIR Sensor ⁽¹⁾	EXT10 10-Year Extended Warranty ⁽⁷⁾	BK Matte Black
			MH Medium High				850 80 CRI/5000K					Z211L_ Wattstopper FSP Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	C6 6' Single Circuit Cord	SL Metallic Silver
			HI High									Z311L_ Wattstopper FSP Bluetooth-enabled Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	C65W 6' Single Circuit Cord with Low Voltage Connections	
			VH Very High									ZOSMD Microwave Daylight/Motion Sensor With Step-Dimming (High/Low/Off) ⁽³⁾	C10 10' Single Circuit Cord	

Notes

- ⁽¹⁾ Max mounting height 10'. See Page 6 for more details.
- ⁽²⁾ " _ " = lens type. 48" length option required. See Page 6 for lens descriptions.
- ⁽³⁾ Max mounting height 49'. See Page 6 for more details.
- ⁽⁴⁾ Max mounting height 16.4'. See Page 5 for more details.
- ⁽⁵⁾ See Page 5 for more details.
- ⁽⁶⁾ Max mounting height 15'. See Page 5 for more details.
- ⁽⁷⁾ Not available on all models. Certain conditions apply. Consult factory or sales representative for details.
- ⁽⁸⁾ Required for Z211 and Z311 sensor options.
- ⁽⁹⁾ EM1 and EM2: 120-277V / 0°C-50°C ambient.
- ⁽¹⁰⁾ " _ " for 2-circuit wiring, specify circuit A or B here.

Controls Accessories (order separately)



For Leviton Programmable Sensor (OS)
ZLSOR-RA1 IR Programming Remote



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

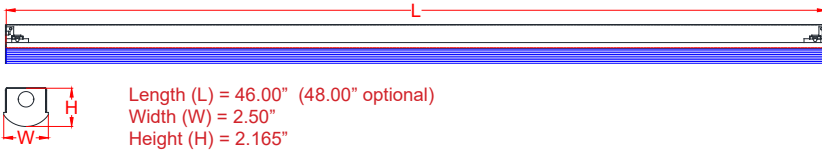


For Enlighted Controls
WS-2-00 Enlighted Remote Control Wall Switch (for Enlighted Connected & IoT)
WS-2-00-IL Enlighted Remote Control Wall Switch (for Enlighted One)

Z211L_ Wattstopper FSP Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	C6 6' Single Circuit Cord
Z311L_ Wattstopper FSP Bluetooth-enabled Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	C65W 6' Single Circuit Cord with Low Voltage Connections
ZOSMD Microwave Daylight/Motion Sensor With Step-Dimming (High/Low/Off) ⁽³⁾	C10 10' Single Circuit Cord
ZIFS Douglas IFS sensor with dimming/occupancy/daylight harvesting and network capabilities ⁽⁴⁾	C105W 10' Single Circuit Cord with Low Voltage Connections
ZIFC Douglas IFC controller with network capabilities ⁽⁵⁾	D6 6' Dual Circuit Cord
ZENLO Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted One System ⁽⁶⁾	D10 10' Dual Circuit Cord
ZENLC Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System ⁽⁶⁾	P(NEMA) Plug (Specify NEMA configuration)
ZENLI Enlighted Micro Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System ⁽⁶⁾	CC Conformal Coating
	LVL 0-10V Dimming Leads for Easy Field Access
	48" 48" Length (Standard Length is 46") ⁽⁸⁾
	EM1 Emergency Pack - Up to 8W ⁽⁹⁾
	EM2 Emergency Pack - Up to 16W ⁽⁹⁾
	QWH(_) Quick Wire Harness ⁽¹⁰⁾
	AC Aligner Clips for Continuous Row Mounting
	BAA Buy American Act Compliant



Schematic:



Performance Chart:

Catalog #	Lumens	Watts	LPW
ECL N 4 LW UV FR 835	2015	15	133.7
ECL N 4 MD UV FR 835	3811	31	124.8
ECL N 4 MH UV FR 835	4509	33	137.7
ECL N 4 HI UV FR 835	5975	44	136.2
ECL N 4 VH UV FR 835	7964	62	128.4
ECL N 4 LW HE UV FR 835	2002	14	147.3
ECL N 4 MD HE UV FR 835	3763	25	149.4
ECL N 4 MH HE UV FR 835	4484	30	148.7
ECL N 4 HI HE UV FR 835	5950	41	143.9
ECL N 4 VH HE UV FR 835	7938	58	137.5

Catalog #	Lumens	Watts	LPW
ECL N 4 LW UV FR 840	2082	15	138.1
ECL N 4 MD UV FR 840	3937	31	129.0
ECL N 4 MH UV FR 840	4658	33	142.3
ECL N 4 HI UV FR 840	6172	44	140.7
ECL N 4 VH UV FR 840	8227	62	132.6
ECL N 4 LW HE UV FR 840	2068	14	152.2
ECL N 4 MD HE UV FR 840	3888	25	154.3
ECL N 4 MH HE UV FR 840	4633	30	153.7
ECL N 4 HI HE UV FR 840	6147	41	148.6
ECL N 4 VH HE UV FR 840	8201	58	142.1

Catalog #	Lumens	Watts	LPW
ECL N 4 LW UV FR 850	2144	15	142.3
ECL N 4 MD UV FR 850	4055	31	132.8
ECL N 4 MH UV FR 850	4798	33	146.5
ECL N 4 HI UV FR 850	6357	44	144.9
ECL N 4 VH UV FR 850	8474	62	136.6
ECL N 4 LW HE UV FR 850	2130	14	156.7
ECL N 4 MD HE UV FR 850	4004	25	158.9
ECL N 4 MH HE UV FR 850	4772	30	158.3
ECL N 4 HI HE UV FR 850	6331	41	153.1
ECL N 4 VH HE UV FR 850	8447	58	146.3

Scaling Factor:
 No lens: 1.05



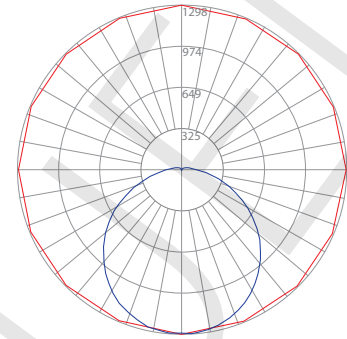
The ECLN features field replaceable boards and drivers. This allows you to upgrade to more efficient technology in the future. Or, in the rare event of a failure, you can rapidly replace defective components. Re-boardABILITY helps to ensure you won't get stuck with an obsolete light fixture. [Learn more about Re-boardABILITY here.](#)

Photometric Data:

ECL N 4 MD UV FR 835

Test No.: LLIA001200-004
 Luminaire Lumens: 3,811 lm
 Luminaire Watts: 30.5W
 Efficacy: 124.8 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	14939	13259	12913
55	12867	11683	11458
65	10143	9806	9578
75	7218	7749	7339
85	4039	6094	5341



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

RC	80				70				50			30		
	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	94	104	100	96	92	95	92	89	91	88	85
2	98	89	82	76	95	87	81	75	83	78	73	79	75	71
3	89	78	70	63	86	76	69	63	73	66	61	70	64	60
4	81	69	60	54	79	68	60	53	65	58	52	62	56	51
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	472.29	12.40
0-30	1003.16	26.30
0-40	1640.20	43.00
0-60	2867.78	75.20
0-80	3564.12	93.50
0-90	3695.32	97.00
90-120	99.96	2.60
90-130	108.09	2.80
90-150	114.59	3.00
90-180	115.73	3.00
0-180	3811.06	100.00

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



Douglas Lighting Controls, Inc.: Cloud-based controls

The ECLN can be equipped with the Douglas Bluetooth Intelligent Fixture Sensor (IFS) as well as the Intelligent Fixture Controller. Max mounting height for sensor: 16.4 feet.



- 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 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.

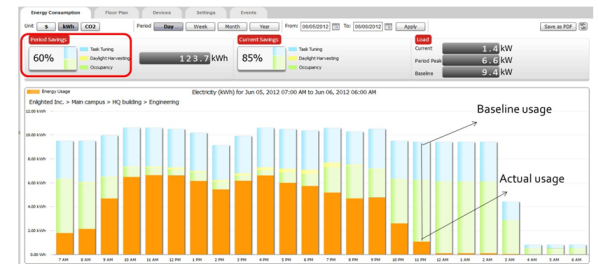
Enlighted Capabilities*	Enlighted One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
Motion and Switch Groups	✓	✓	✓
Daylight Harvesting	✓	✓	✓
Schedule Lighting		✓	✓
Energy Reporting & Optimization		✓	✓
Environment Data & Lighting Controls API		✓	✓
Building Management System Integration		✓	✓
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:

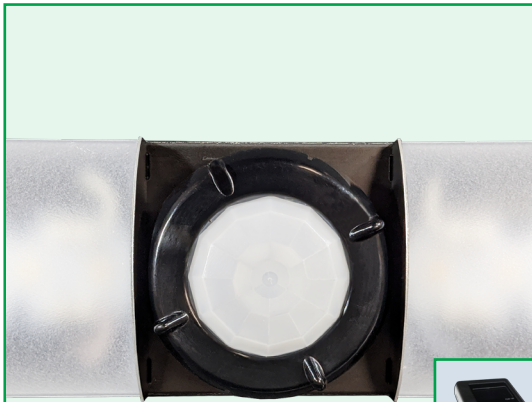
www.lumenfocus.com/controls-overview

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Other controls available:

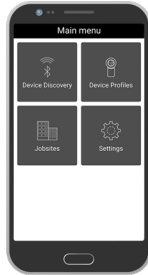


Z211 sensor with L7 lens in black



FSIR-100

Phone app interface for Z311 sensor



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:** 360° lens, maximum coverage 40', diameter from 20' height
 - **L7:** 360° lens, maximum coverage 100', diameter from 40' height

Leviton Intellect Solo PIR 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



Other features:

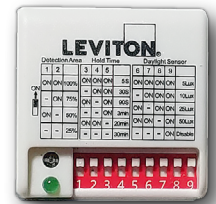
- Partial-on
- Partial-off
- 8' to 10' mounting height
- IP20 rated
- Detection angle: 120 degrees
- IR remote available for

programming sensor from the floor (sold separately)

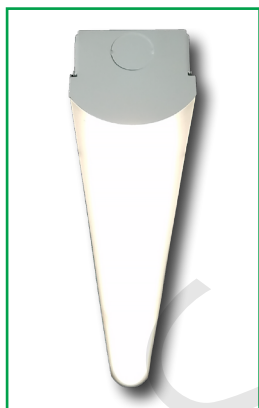
- Can be used to comply with IECC, ASHRAE 90.1 and 2019 Title 24, Part 6 dimming, occupancy/vacancy sensing and daylight harvesting requirements.

Microwave Occupancy Sensor (ZOSMD)

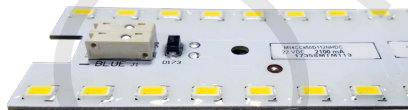
The Leviton OSM3D-V1W (or equivalent) detects motion through low density materials using high frequency electromagnetic waves. This means it can sit discretely behind the ECLN's frosted lens. The ZOSMD features automatic switching based on motion and ambient light level. ZOSMD option adds step-dimming functionality - standby dimming level 10% / 20% / 30% / 50%. Max mounting height for ZOSMD 49 feet.



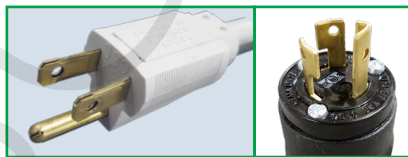
Other Options:



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.

