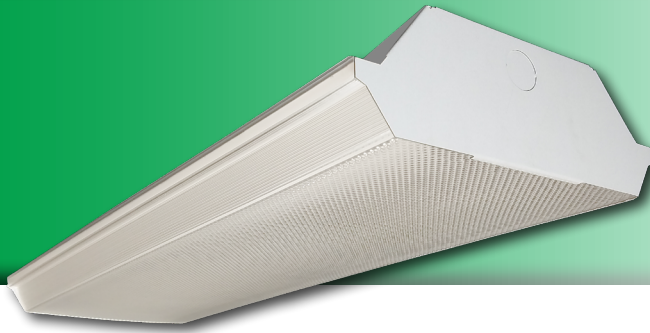**Note:** This product has been discontinued and replaced with the EWLS G2.

LUMENF⊕CUS

Project: _____

Location: _____

Cat. #: _____

Type: _____

Quantity: _____

LED

EWL N 2 | LED Wrap

Features:
• High performance LED technology
• 0-10V dimming drivers standard
• Field replaceable LED boards and drivers
• Can be surface, stem, or cable mounted as individual units or in continuous rows

Applications:
Suitable for industrial, retail, and institutional applications
• Warehouse
• Manufacturing Facility
• Stock Room
• Classroom

Ambient Operating Temp:
• -30°C to 40°C

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

Construction:
• Die-formed heavy-gauge cold rolled steel
• Pre-painted with a highly durable, highly reflective white finish
• Clear Prismatic Acrylic Lens

Certifications:
• UL 1598 listed for US and Canada, suitable for damp locations

c (UL) us

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.)

MADE IN USA
USING DOMESTIC AND FOREIGN COMPONENTS

10 YEAR EXTENDED WARRANTY
AVAILABLE ON CERTAIN MODELS

![LumenFocus logo]

Ordering Guide:

example: EWL N 2 MD UV CPA 840 QC

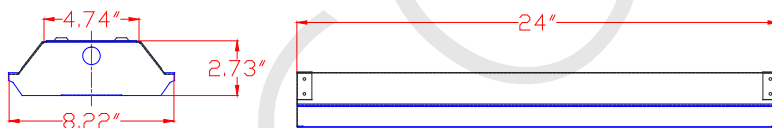| Series	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options
EWL N	2			CPA				
EWL N	**2** 2'	**VL** Very Low **LW** Low **MD** Medium **HI** High **VH** Very High	**UV** 120-277 **34** 347V	**CPA** Clear Prismatic Acrylic	**830** 80 CRI/3000K **835** 80 CRI/3500K **840** 80 CRI/4000K **850** 80 CRI/5000K	**Blank** None **VC** V-Chain Hangers **QC** 10' Quick Hang Cable Kit **QC15** 15' Quick Hang Cable Kit **QC20** 20' Quick Hang Cable Kit	**Blank** No Controls **ZOS** Occupancy Sensor (On/Off) **Z221BL_** Wattstopper Programmable Photo/Motion Multi-Voltage Sensor (high/low/off)[1] **Z321BL_** Wattstopper Bluetooth-enabled Programmable Photo/Motion Multi-Voltage Sensor (high/low/off)[1] **ZOSM** Microwave Occupancy Sensor **ZPC** Photocell **ZIFS** Douglas IFS Sensor with Dimming/Occupancy/Daylight Harvesting with Newtork Capabilities[2] **ZIFC** Douglas IFC Controller with Newtork Capabilities[2] **ZENLO** Enlighted One Micro Sensor with Dimming/Occupancy/Daylight Harvesting[3] **ZENLC** Enlighted Connected Micro Sensor with Dimming/Occupancy/Daylight Harvesting[3] **ZENLI** Enlighted IoT Micro Sensor with Dimming/Occupancy/Daylight Harvesting[3]	**Blank** No Options **EXT10** 10-Year Extended Warranty[4] **F** Fuse **EM1** Emergency Pack - Up to 8W[5] **EM2** Emergency Pack - Up to 16W[5] **CC** Conformal Coating **LVL** 0-10V Dimming Leads for Easy Field Access **BAA** Buy American Act Compliant

Notes

[1] "_" = lens type. See Page 3 for lens descriptions.
[2] Max ceiling height for Douglas sensors: 16.4 feet. See Page 4 for more details on advanced controls.
[3] Max ceiling height for Enlighted sensors: 15 feet. See Page 4 for more details on advanced controls.
[4] Not available on all models. Certain conditions apply. Consult factory or sales representative for details.
[5] EM1 and EM2: 120-277V / 0°C-50°C ambient.

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:

4.74"
2.73"
8.22"
24"

Performance Chart:

Catalog #	Watts	Lumens (830)	LPW (830)	Lumens (835)	LPW (835)	Lumens (840)	LPW (840)	Lumens (850)	LPW (850)
EWL N 2 VL UV CPA xxx	12	1448	125.5	1472	127.6	1521	131.8	1566	135.8
EWL N 2 LW UV CPA xxx	16	2047	126.3	2081	128.4	2150	132.6	2215	136.6
EWL N 2 MD UV CPA xxx	24	3038	125.8	3089	127.9	3191	132.2	3287	136.1
EWL N 2 HI UV CPA xxx	32	3935	122.9	4002	124.9	4134	129.1	4258	132.9
EWL N 2 VH UV CPA xxx	40	4954	123.6	5037	125.7	5203	129.9	5359	133.7

Photometric Data:

EWL N 2 HI UV CPA 830

Test No.: LLIA001226-003
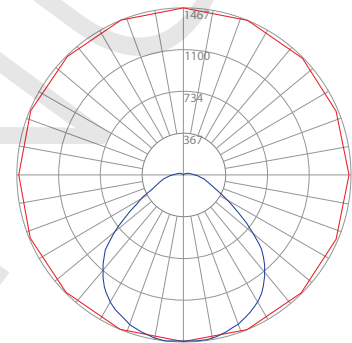**Luminaire Lumens:** 3,935 lm
Luminaire Watts: 32.0 W
Efficacy: 122.9 LPW
Spacing Criterion (0-180): 1.28
Spacing Criterion (90-270): 1.32

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10201	9577	9400
55	8460	7405	6746
65	5341	4821	4678
75	3844	3184	4073
85	2756	2647	4372

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
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88
2	100	92	85	80	97	90	84	79	86	81	77	82	78	74
3	91	81	73	67	89	79	72	67	76	70	65	73	68	64
4	84	72	64	58	81	71	63	57	68	61	56	66	60	55
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48
6	71	59	50	44	69	58	49	44	56	48	43	54	47	42
7	66	53	45	39	65	52	44	39	51	43	38	49	43	38
8	62	49	40	35	60	48	40	35	46	39	34	45	39	34
9	58	45	37	31	56	44	36	31	43	36	31	41	35	31
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28

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

— Vert. Plane
— Horiz. Cone

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	539.13	13.7
0-30	1152.93	29.3
0-40	1900.26	48.3
0-60	3229.18	82.1
0-80	3742.65	95.1
0-90	3835.71	97.5
90-120	79.45	2.0
90-130	89.25	2.3
90-150	96.68	2.5
90-180	99.67	2.5
0-180	3935.38	100.0

Dimming Sensors (Z221B/Z321B)

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- Comes pre-installed on the end cap
- Rated for cold locations
- Parameters for Bluetooth-enabled Z321B adjustable via phone app - iOS or Android
- Parameters adjustable via wireless configuration tool (FSIR-100 - sold separately)

- Three lenses available, tailored for the ideal detection area and mounting height:
  -L2: 360º lens, maximum coverage 48', diameter from 8' height
  -L3: 360º lens, maximum coverage 40', diameter from 20' height
  -L7: 360º lens, maximum coverage 100', diameter from 40' height

Top: FSIR-100;
Left: Phone app interface
for Z321B
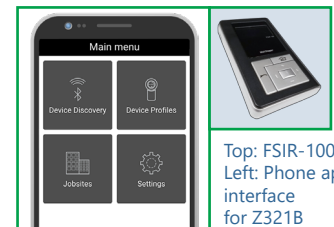
LumenFocus
Re-boardABILITY

The EWL N 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.

Douglas Lighting Controls, Inc.: Cloud-based controls

The EWL N can be equipped with the Douglas Bluetooth Intelligent Fixture Sensor (IFS) as well as the Intelligent Fixture Controller. Max mounting height is 16.4 feet.

IFS

- Occupancy, vacancy, partial-on and partial-off
- Occupancy timeout adjustable from 5 to 90 minutes
- Primary and secondary daylight harvesting

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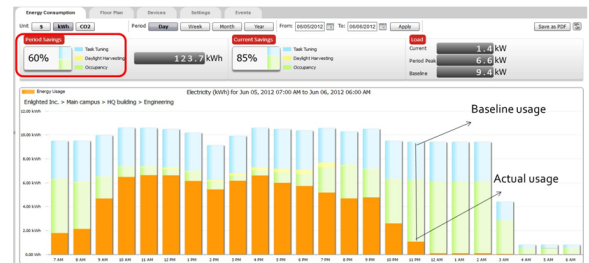
Enlighted sensors come standard with the Enlighted One system (the "ZENLO" option). Enlighted Connected ("ZENLC") offers even more options. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Each system can be fully upgraded to the next tier in the future. So if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

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 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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LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications.

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EWL N 2_LED_v1.9_FINAL
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