Section II - Electrical

7. Interior Lights

LITHONIA LIGHTING®

Catalog Number	
Notes	WL-4-40L-EZB-LP835 SC
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — For wall or ceiling mounting, vertical or horizontal. The WL combines digital LED lighting and controls technologies with high-performance optical design to offer the most advanced wall-mount luminaire for general ambient lighting applications. High-efficacy light engine delivers long life and excellent color, ensuring a superior quality lighting installation that is highly efficient and sustainable.

CONSTRUCTION — Housing is roll formed from code-gauge steel.

Refractor is retained in die cast ends providing secure installation and easy maintenance.

Decorative die-cast end caps provide added durability.

Finish: All metal parts are post-painted in white polyester powder coat for smooth, finished edges and uniform light distribution.

OPTICS — Impact modified linear faceted refractor. Optically engineered for superior light distribution and maximum efficacy.

Crescent-shape linear faceted refractor system obscures and integrates individual LED images and uniformly washes fixture surface with light.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 90% LED lumen maintenance at 60,000 hours (L90/60,000). The LEDs have a CRI of 82.

eldoLED driver options deliver choice of dimming range and choice for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Driver disconnect provided where required to comply with US and Canadian codes.

Optional nLight® embedded controls continuously monitor system performance and allow for constant lumen management function.

Lumen Management: Unique lumen management system (option N80) provides onboard intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing energy waste created by the traditional practice of over-lighting.

SENSOR — Integrated sensor (individual control): Sensor Switch MSD7 (Passive Infrared (PIR)) integrated occupancy sensor photocell allows the luminaire to power off when the space is unoccupied. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): The sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired using CAT-5 cabling with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 4 for the nLight sensor options.

Interated Smart Sensor (nLight AIR Wireless Platform): The rES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is both digital PIR occupancy sensor and automatic dimming photocell. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY, which allows for simple sensor adjustment. See page 4 for more details on the Integrated Smart Sensor.

XPoint Wireless Networking: XPoint™ Wireless technology creates a mesh network to ensure communication between fixtures, sensors, and wall stations facility wide. This option provides superior lighting management capabilities including granular control, configuration, and custom grouping. This option enables sensors that detect motion to wirelessly communicate to neighboring fixtures — whether on different floors in a stairwell, to a corridor or hallway — illuminating the desired path.

LISTINGS — CSA certified to meet U.S. and Canadian standards. Suitable for damp location (excluding sensor option).

Patents pending. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

NOTE: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

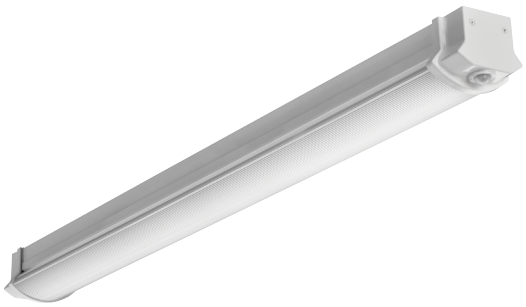
W SERIES

Wall bracket & Surface Mount LED

WL4

4'

LED



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks when ordered with drivers marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

WL4 Wall Bracket & Surface Mount LED

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: WL4 30L EZ1 LP840

WL4					
Series	**Lumens**[1]	**Voltage**	**Driver**	**Color temperature**	**Controls**
WL4 4' wall-mount LED	20L 2000 lumens 30L 3000 lumens 40L 4000 lumens	(blank) MVOLT 347 347V	EZ1 eldoLED dims to 1%, 0-10V EZB eldoLED dims to dark, 0-10V	LP830 3000 K LP835 3500 K LP840 4000 K LP850 5000 K	(blank) No nLight N80 nLight® with 80% lumen management N80EMG nLight® with 80% lumen management for use with generator supply EM power[2] N100 nLight® without lumen management N100EMG nLight® without lumen management for use with generator supply EM power[2] NLTAIR nLight AIR enabled[3]

Occupancy control[4]	**Standby mode**[8]	**Options**	**Finish**[10]
(blank) No sensor control **nLight Wired Networking** NES7 nLight® nES 7 PIR integral occupancy sensor[5] NESPDT7 nLight® nES PDT 7 dual technology integral occupancy control[5] NES7ADCX nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell[5] **Individual Control** MSD7 Sensor Switch® MSD 7 PIR Integral Occupancy Control[6] **Xpoint Wireless** XADS7 XPoint™wireless controller and micro 360° PIR occupancy and photocell sensor[7] XADNS7 XPoint™â wireless controller and micro 360° PIR occupancy and photocell sensor (egress lighting)[7] **nLight Wireless Networking** RES7N nLight® AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities **nLight Wireless Zone** RES7Z nLight® AIR PIR integral occupancy sensor with automatic dimming photocell for zone control	(blank) Fixture turns off when unoccupied DIM10 Fixture dims to approximately 10% light output when unoccupied DIM50 Fixture dims to approximately 50% light output when unoccupied	EL7L LED Emergency battery pack (nominal 700 lumens); see Life Safety section[9] EL14L LED Emergency battery pack (nominal 1400 lumens); see Life Safety section[9] SC Surface conduit end cap provisions	(blank) White

Notes
1. Approximate lumen output.
2. nLight EMG option requires a connectio nto existing nLight network. Power is provided from a separate N80 or N100 enabled fixture
3. Must order with RES7N or RES7Z sensor. Only availble with EZ1 driver.
4. See sensor options on page 3.
5. Requires N80, N100, N80EMG, or N100EMG. Cannot be ordered with EZB and EL7L or EL14L together.
6. Not available with nLight options or EZB.
7. Not available with nLight options or Standyby Mode. Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
8. Requires Occupancy Control.
9. Not available with 347V. Cannot be ordered with 40L, EZB, and sensor combination.
10. For additional paint finishes, refer to Architectural Colors.

LITHONIA LIGHTING®

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

nLight® Wired Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	**Model number**	**Cat-5 cable (plenum rated)**	**Model number**
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

nLight® AIR Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH[1]

Notes
1 Can only be ordered with the RES7Z zone control sensor version.

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

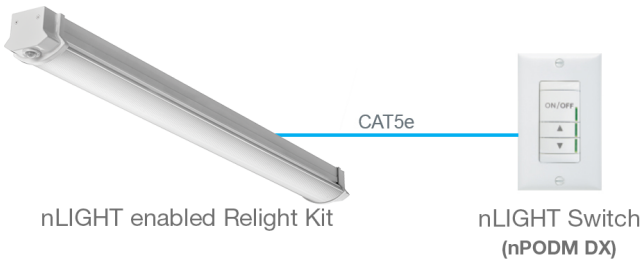
WL4 Wall Bracket & Surface Mount LED

Sensor Options						
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking	nLight AIR Zone
		PIR	PDT			
MSD7		X				
NES7		X		X		
NES7ADCX	X	X		X		
NESPDT7			X	X		
RES7N	X	X			X	
RES7Z	X	X				X

Integrated Sensor with Individual Control

The MSD7 PIR occupancy sensor is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

Basic nLight Zone

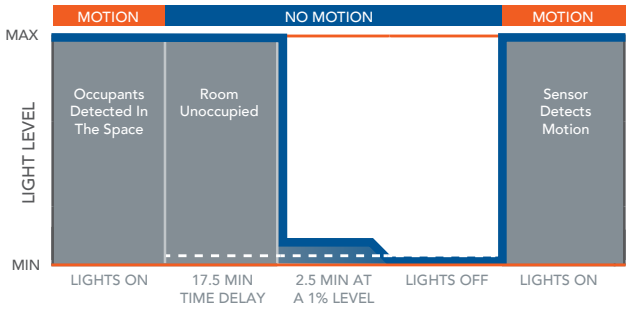


nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy.

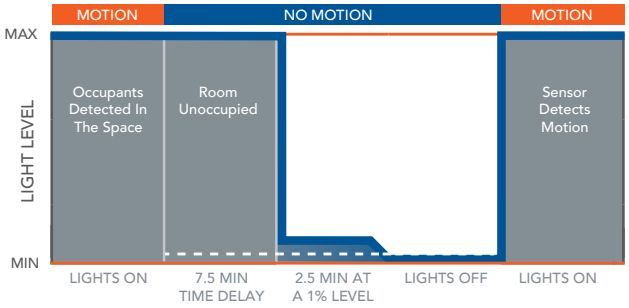
Sequence of Operation



nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. The integrated rES 7 smart sensor is part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.

Sequence of Operation

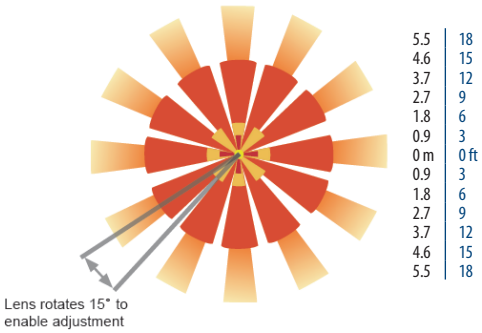


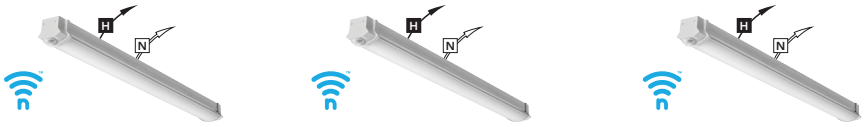
*The presetting on the automatic dimming photocell is 5fc.

Sensor Coverage Pattern
Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

9 FT Mounting





Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

LITHONIA LIGHTING®

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

WL4 Wall Bracket & Surface Mount LED

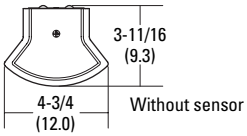
Performance Data			
Lumen package	**Input watts**	**Lumens**	**LPW**
20L LP830	18.7	2050	110
20L LP835	18.7	2152	115
20L LP840	18.7	2255	121
20L LP850	18.7	2410	129
30L LP830	28.2	2952	105
30L LP835	28.2	3095	110
30L LP840	28.2	3251	115
30L LP850	28.2	3239	115
40L LP830	39.5	3927	99
40L LP835	39.5	4124	104
40L LP840	39.5	4325	110
40L LP850	39.5	4571	116

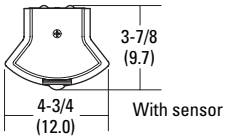
DIMENSIONS

All dimensions are inches (centimeters) unless otherwise noted.

Specifications

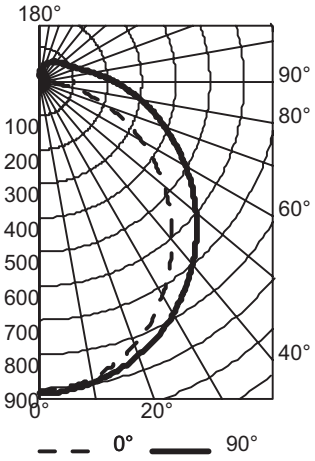
Length: with sensor - 50-15/16 (129.40)
without sensor - 46-13/16 (118.90)
Height: with sensor - 3-11/16 (9.3)
without sensor - 3-7/8 (9.7)
Width: 4-3/4 (12.1)





PHOTOMETRICS

WL4 30L EZ1 LP840, 3250.8 delivered lumens, test no. LTL25482P5, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	912	912
5°	901	910
15°	856	879
25°	777	823
35°	666	745
45°	542	650
55°	412	549
65°	279	444
75°	151	346
85°	44	257
90	5	219

Coefficients of Utilization

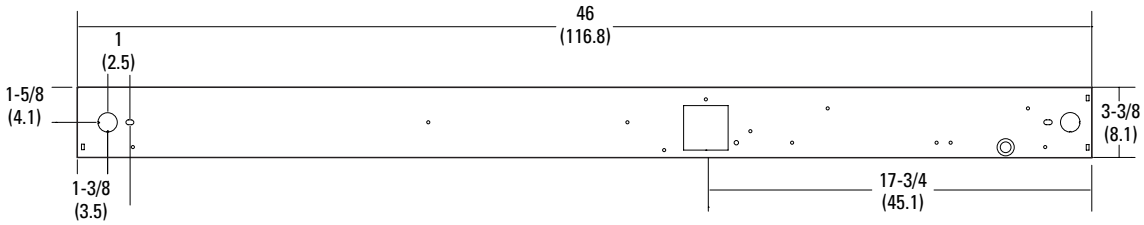
	pf	20%								
	pc	80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	116	116	116	112	112	112	104	104	104
	1	104	99	94	95	91	87	88	85	81
	2	94	85	78	82	75	70	76	71	66
	3	85	74	66	72	64	57	67	60	55
	4	78	66	56	63	55	48	59	52	46
	5	72	58	49	57	48	42	53	46	40
	6	66	52	43	51	42	36	48	40	35
	7	61	47	39	46	38	32	43	36	31
	8	57	43	35	42	34	28	40	32	27
	9	53	40	31	39	31	25	36	29	25
	10	50	37	29	36	28	23	34	27	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	701	21.6	21.6
0° - 40°	1143	35.2	35.2
0° - 60°	2032	62.5	62.5
0° - 90°	2829	87.0	87.0
90° - 120°	256	7.9	7.9
90° - 130°	310	9.5	9.5
90° - 150°	386	11.9	11.9
90° - 180°	421	13.0	13.0
0° - 180°	3251	100.0	100.0

MOUNTING DATA

For unit installation; surface ceiling or wall mounting.



LITHONIA LIGHTING

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

Section II - Electrical

7a. Interior Lights with Battery Backup

LITHONIA LIGHTING®

Catalog Number	
Notes	WL-4-40L-EZB-LP835 SC
Type	

FEATURES & SPECIFICATIONS

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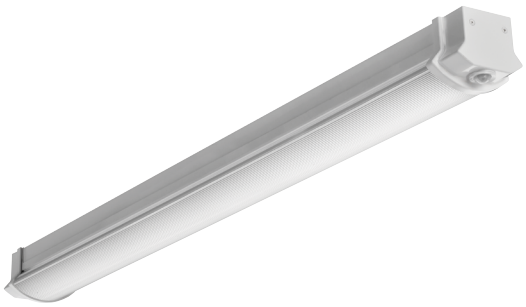
W SERIES

Wall bracket & Surface Mount LED

WL4

4'

LED



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*See ordering tree for details

WL4 Wall Bracket & Surface Mount LED

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: WL4 30L EZ1 LP840

WL4					
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Occupancy control[4]	**Standby mode**[8]	**Options**	**Finish**[10]
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6. Not available with nLight options or EZB.
7. Not available with nLight options or Standyby Mode. Gateway not included. Requires on-site commissioning. Visit www.lightingcontrols.com/XPointWireless for more information.
8. Requires Occupancy Control.
9. Not available with 347V. Cannot be ordered with 40L, EZB, and sensor combination.
10. For additional paint finishes, refer to Architectural Colors.

LITHONIA LIGHTING®

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nLight® Wired Control Accessories:
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WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 RJB / nCM PDT 9 RJB
On/Off & raise/lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM10 RJB / nCM PDT 10 RJB
Graphic touchscreen	nPOD GFX [color]	Wall switch with raise/lower	nWSX PDT LV DX [color]
Photocell controls	**Model number**	**Cat-5 cable (plenum rated)**	**Model number**
Full range dimming	nCM ADCX RJB	10' cable	CAT5 10FT J1
		30' cable	CAT5 30FT J1

nLight® AIR Control Accessories:
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair.

Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH[1]

Notes
1 Can only be ordered with the RES7Z zone control sensor version.

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

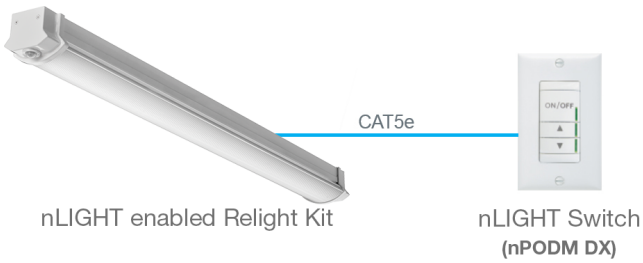
WL4 Wall Bracket & Surface Mount LED

Sensor Options						
Option	Automatic Dimming Photocell	Occupancy Sensing		nLight Wired Networking	nLight AIR Networking	nLight AIR Zone
		PIR	PDT			
MSD7		X				
NES7		X		X		
NES7ADCX	X	X		X		
NESPDT7			X	X		
RES7N	X	X			X	
RES7Z	X	X				X

Integrated Sensor with Individual Control

The MSD7 PIR occupancy sensor is ideal for areas without obstructions and where daylight harvesting may be desired. Suggested applications include, but not limited to, hallways, corridors, storage rooms, and breakrooms or other areas where people are typically moving.

Basic nLight Zone

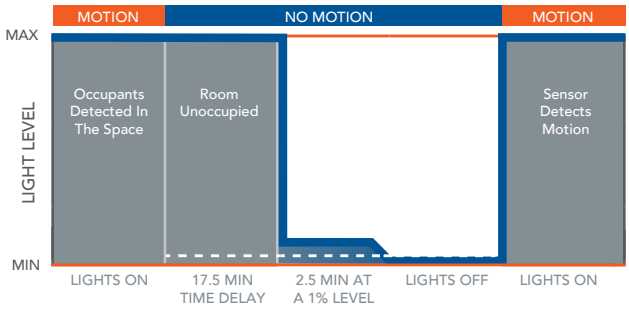


nLight Wired Networking

The nES 7 is ideal for small rooms without obstructions or areas with primarily walking motion. Ideal areas include hallways, corridors, storage rooms, and breakrooms. Additionally, the NES7ADCX includes an integrated photocell, which enables daylight harvesting controls.

For areas like restrooms, private offices, open offices, conference rooms or any space with obstructions, the nES PDT 7 dual technology sensor is recommended. The nES PDT 7 utilizes both PIR (passive infrared) and Microphonics technologies to detect occupancy.

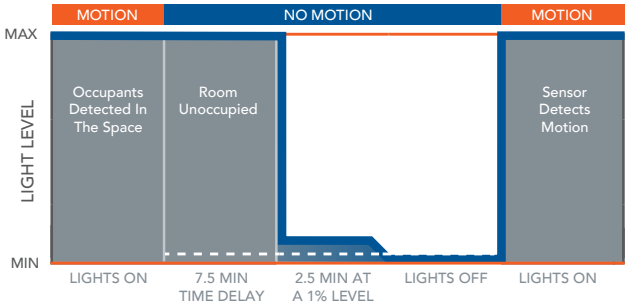
Sequence of Operation



nLight AIR Wireless

nLight AIR is the ideal solution for retrofit or new construction spaces where adding additional wiring can be labor intensive and costly. The integrated rES 7 smart sensor is part of each luminaire in the nLight AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application.

Sequence of Operation

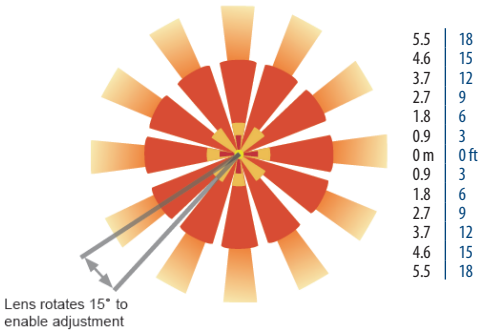


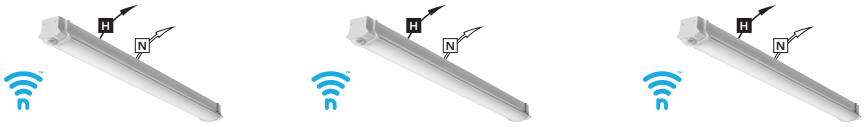
*The presetting on the automatic dimming photocell is 5fc.

Sensor Coverage Pattern
Mini 360° Lens

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and
- 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor

9 FT Mounting





Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome

LITHONIA LIGHTING®

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

WL4 Wall Bracket & Surface Mount LED

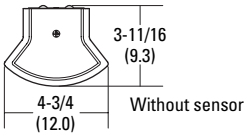
Performance Data			
Lumen package	**Input watts**	**Lumens**	**LPW**
20L LP830	18.7	2050	110
20L LP835	18.7	2152	115
20L LP840	18.7	2255	121
20L LP850	18.7	2410	129
30L LP830	28.2	2952	105
30L LP835	28.2	3095	110
30L LP840	28.2	3251	115
30L LP850	28.2	3239	115
40L LP830	39.5	3927	99
40L LP835	39.5	4124	104
40L LP840	39.5	4325	110
40L LP850	39.5	4571	116

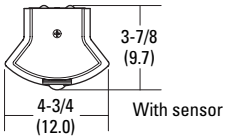
DIMENSIONS

All dimensions are inches (centimeters) unless otherwise noted.

Specifications

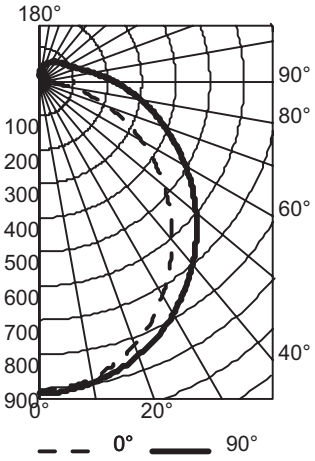
Length: with sensor - 50-15/16 (129.40)
without sensor - 46-13/16 (118.90)
Height: with sensor - 3-11/16 (9.3)
without sensor - 3-7/8 (9.7)
Width: 4-3/4 (12.1)





PHOTOMETRICS

WL4 30L EZ1 LP840, 3250.8 delivered lumens, test no. LTL25482P5, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	912	912
5°	901	910
15°	856	879
25°	777	823
35°	666	745
45°	542	650
55°	412	549
65°	279	444
75°	151	346
85°	44	257
90	5	219

Coefficients of Utilization

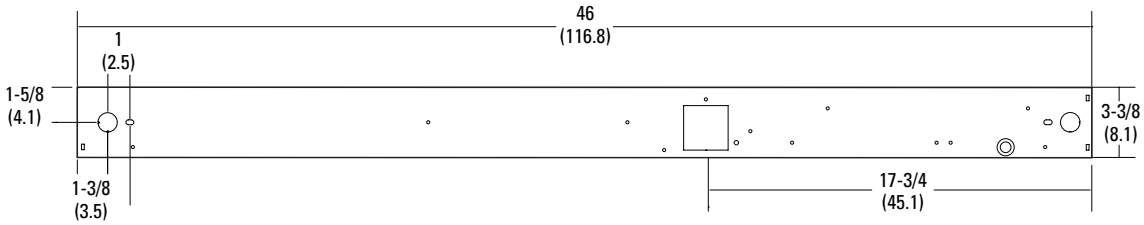
	pf	20%								
	pc	80%			70%			50%		
	pw	70%	50%	30%	50%	30%	10%	50%	30%	10%
RCR	0	116	116	116	112	112	112	104	104	104
	1	104	99	94	95	91	87	88	85	81
	2	94	85	78	82	75	70	76	71	66
	3	85	74	66	72	64	57	67	60	55
	4	78	66	56	63	55	48	59	52	46
	5	72	58	49	57	48	42	53	46	40
	6	66	52	43	51	42	36	48	40	35
	7	61	47	39	46	38	32	43	36	31
	8	57	43	35	42	34	28	40	32	27
	9	53	40	31	39	31	25	36	29	25
	10	50	37	29	36	28	23	34	27	22

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	701	21.6	21.6
0° - 40°	1143	35.2	35.2
0° - 60°	2032	62.5	62.5
0° - 90°	2829	87.0	87.0
90° - 120°	256	7.9	7.9
90° - 130°	310	9.5	9.5
90° - 150°	386	11.9	11.9
90° - 180°	421	13.0	13.0
0° - 180°	3251	100.0	100.0

MOUNTING DATA

For unit installation; surface ceiling or wall mounting.



LITHONIA LIGHTING

LED: One Lithonia Way Conyers, GA 30012 Phone: 800-858-7763 Fax: 770-929-8789 www.lithonia.com

Section II - Electrical

8. Exterior Light - B

LITHONIA LIGHTING®

Catalog Number	**VG03C-25LED-MVOLT-DDBT**
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Architectural deep-cast luminaire provides general illumination for rough service (vandal resistant) applications. Ideal for interior or exterior applications where safety and security are a concern. Amber LEDs available for applications requiring turtle-safe lighting. Certain airborne contaminants can diminish integrity of acrylic. Designed to complement building architecture and to endure extreme environmental conditions and physical abuse. Click here for Acrylic Environmental Compatibility table for suitable uses.

CONSTRUCTION — *Bezel* - One-piece, die-cast aluminum, low copper alloy (<1% copper). Encloses lens and secures to housing with stainless steel Torx® T-10 set screws (two included) or optional stainless steel tamper-resistant screws (see Options).

Housing - One-piece, die-cast aluminum, low copper alloy (<1% copper), with post-painted polyester powder coat finish. Four hole mounting detail for use directly over outlet box, or conduit entry through three 1/2" threaded openings on side or 3/4" threaded opening on rear surface. .012 gauge aluminum sheet metal internal bracket and board plate for thermal conduction and support.

Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring, mechanically held in lens channel. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket is closed-cell neoprene and seals housing to mounting surface. Gaskets help cushion impact shock.

Finish - Standard finish is textured polyester powder coat in white, black or bronze. Optional architectural colors available (see paint finishes).

OPTICS — *Polycarbonate lens* – Injection-molded lens is .125 inch thick. Designed to enrich the LED color and lumen output. Smooth exterior allows for easy cleaning, and interior pattern diffuses light for even surface illumination.

Glass lens –Tempered borosilicate lens, .250 inch thick, has smooth exterior for easy cleaning and textured interior.

ELECTRICAL — Utilizes high-efficiency LEDs mounted to 1 metal core circuit board. 3500 Kelvin temperature. Driver: 2 electronic drivers wired in parallel allows total power to be reduced by half while maintaining even illumination across the board. 70% lumen maintenance at 50,000 hours. 100V through 277V, 50-60HZ operation. 6KV pulse rated. Initial surge protection standard.

INSTALLATION — Unit may be wall mounted.

LISTINGS — CSA Certified to UL and C-UL standards. NOM Certified (see Options). CSA listed for 40ºC ambient and wet locations. IP65 rated.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

For installed Rough Service Product(s), Acuity warrants that, for the lifetime of the product(s), the polycarbonate lens and/or polycarbonate housing will withstand breakage resulting from occasional physical abuse and rough handling (the "Rough Service Warranty"), notwithstanding the vandalism exclusion set forth at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

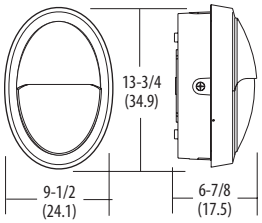
NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

GRS GATEWAY®

Architectural Rough Service Fixture

VG03C

LED
Oval Vertical Eyelid
Deep Housing
Wall Mounted



All dimensions are inches (centimeters).

ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

Example: VG03C 25LED MVOLT DBLB LPI

VG03C							
Series	**Lumen output[1]/Color temperature[2]**		**Lens**	**Voltage**	**Paint finishes[3]**	**Options**	**Lamp**
VG03C	**Lumen output[1]** **25LED** 25W	**Color temperature[2]** **(blank)** 3500K	**(blank)** Polycarbonate **GL** Borosilicate glass	**120** **277** **MVOLT**	Standard textured finishes **DWHG** White **DBLB** Black **DDBT** Dark bronze **DNAT** Natural aluminum **DSST** Sandstone	Shipped installed in fixture DF Double fuse[4,5] **SF** Single fuse[5] **DS** Dual switching[6] MSI8 Wet location motion sensor[5,7] **PE** Photoelectric cell[5,8] TRS Tamper-resistant screws[9] **NOM** Meets Mexican standards	**LPI** Lamp included

Accessories: *Order as separate catalog number.*

RK1 T10DRV	Torx TX10 screwdriver, for use with Gateway set screws.
RK1 T20BIT	Hex-base driver bit, Torx TX20, for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for use with tamper-resistant screws with center reject pin.

Notes

1. Refer to table on back page.
2. The CCT value provided is of lamp source and actual CCT will vary upon power levels.
3. For additional colors, refer to Architectural Paint brochure.
4. Must specify DS option.
5. Must specify voltage. Not available with MVOLT.
6. Not available with SF or PE options.
7. Provided with lens for mounting up to 8'.
8. Not available with DS option.
9. T-20 screws with center reject pin.

System watts	Initial delivered lumens through polycarbonate lens*	Initial delivered lumens through glass lens*	mA	Ambient temperature °C
	3500K	3500K		
25	595	385	507	40

* 3500K is LED CCT

LITHONIA LIGHTING®
An AcuityBrands Company
SPECIAL APPLICATIONS: One Lithonia Way Conyers, GA 30012 Phone: 800.315.4963 Fax: 770-981-8191 www.lithonia.com

Section II - Electrical

9. Exterior Light - C

ASW1 LED
LED Wall Luminaire

NIGHTTIME FRIENDLY™

AERIS™

Catalog Number: ASW1LED-42C-350-40K-SR3-MV

Notes:

Type:

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The Aeris™ family combines sleek, fluid forms and crisp edges into a striking architectural aesthetic that can be echoed throughout entire sites.

The ASW1 LED integrates the latest LED technology with the designer aesthetic of the Aeris™ family for stylish, high-performance illumination that lasts. The ASW1 LED is ideal for replacing 100-400W metal halide in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

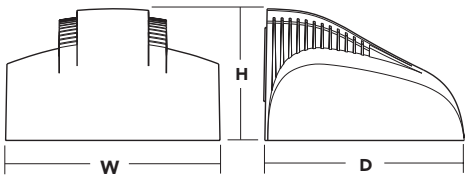
Specifications

Width: 15″ *(38.1 cm)*

Depth: 13-3/4″ *(34.9 cm)*

Height: 9-1/4″ *(25.5 cm)*

Weight (max): 34 lbs *(15.4 kg)*



Ordering Information

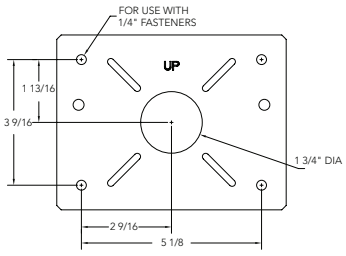
EXAMPLE: ASW1 LED 42C 700 40K SR4 MVOLT DDBTXD

ASW1 LED

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting
ASW1 LED	42C 42 LEDs (one engine)	350 350mA 530 530mA 700 700mA	30K 3000 K 40K 4000 K 50K 5000 K	SR2 Type II SR3 Type III SR4 Type IV	MVOLT [1] 277 [1] 120 [1] 347 208 [1] 480 240 [1]	**Shipped included** (blank) Surface mount **Shipped separately** BBW Surface-mounted back box (for conduit entry) [2]

Control Options				Other Options	Finish *(required)*	
Shipped installed				**Shipped installed**	DDBXD	Dark bronze
PE	Photoelectric cell, button type [3]	PNMT5D3	Part night, dim 5 hrs [5]	SF Single fuse (120, 277, 347V) [1]	DBLXD	Black
BL30	Bi-level switched dimming, 30% [4,5]	PNMT6D3	Part night, dim 6 hrs [5]	DF Double fuse (208, 240, 480V) [1]	DNAXD	Natural aluminum
BL50	Bi-level switched dimming, 50% [4,5]	PNMT7D3	Part night, dim 7 hrs [5]	DFL Diffusing lens	DWHXD	White
PNMTDD3	Part night, dim till dawn [5]	DMG	0-10V dimming driver (no controls) [6]	**Shipped separately** [2]	DDBTXD	Textured dark bronze
				VG Vandal guard	DBLBXD	Textured black
				WG Wire guard	DNATXD	Textured natural aluminum
					DWHGXD	Textured white

Drilling



Accessories

Ordered and shipped separately.

ASW1BBW DDBXD U	Back box accessory (specify finish)
ASW1WG U	Wire guard accessory
ASW1VG U	Vandal guard accessory

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120 or 277 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
2. Also available as a separate accessory; see Accessories information at left.
3. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Must be ordered with fixture; cannot be field installed.
4. Requires an additional switched line.
5. Dimming driver standard. Not available with 347V or 480V.
6. Not available with 347V, 480V, BL30, BL50 or PNMT options.

LITHONIA LIGHTING®

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Light Engines	Drive Current (mA)	System Watts	Dist. Type	40 K (4000 K, 70 CRI)				
				Nominal Lumens	B	U	G	LPW
42C (42 LEDs)	350	49W	SR2	4,013	1	0	1	82
			SR3	3,998	1	0	1	82
			SR4	3,971	1	0	1	81
	530	75W	SR2	7,140	2	0	2	95
			SR3	7,114	1	0	2	95
			SR4	7,066	1	0	1	94
	700	98W	SR2	8,564	2	0	2	87
			SR3	8,533	2	0	2	87
			SR4	8,476	2	0	2	86

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.06
10°C	50°F	1.04
20°C	68°F	1.01
25°C	**77°F**	**1.00**
30°C	86°F	0.99
40°C	104°F	0.96

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **ASW1 LED 42C 700** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.96	0.92	0.85

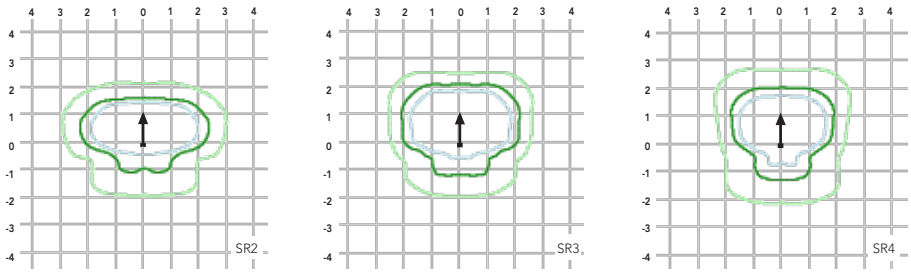
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's ASW1 LED homepage.

Isofootcandle plots are considered to be representative of available optical distributions.

LEGEND

- 0.1 fc
- 0.5 fc
- 1.0 fc



FEATURES & SPECIFICATIONS

INTENDED USE
The ASW1 LED is a high performance, high efficacy, long life luminaire that is ideally suited for lighting building entries, walk ways and surrounding areas adjacent to commercial exteriors.

CONSTRUCTION
Single-piece, die-cast aluminum housing. Die-cast doorframe has impact-resistant, tempered glass lens. Doorframe is fully sealed with a closed-cell silicone gasket.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
Precision-molded refractive acrylic lenses housed behind the door frame lens are available in three distributions. Light engines are available in standard 4000 K or optional 3000 K or 5000 K (70 CRI) configurations.

ELECTRICAL
Light engine consists of 42 high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION
Universal mounting plate with integral mounting bolts supports the fixture for easy, one-person installation. Suitable for downward orientation only.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. **US. Patent No. D500,569. Canada Patent No. 107561.**

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice..

Section II - Electrical

10. Door Contact

960

- Ordering Information
- Product Literature

XTP Surface Mount Magnetic Contact

- XTP contacts withstand surges up to 2400VDC
- The toughest commercial contact ever developed
- Rugged aluminum housing
- Completely immersion proof (epoxy sealed)
- 3' (91cm) armored cable is standard
- Wide gap of 2-1/2" (64mm) is standard

Specifications:

Switch Type: Form A (SPST) Reed (960)
Switch Type: Form C (SPDT) Reed (960-2)
Contact Rating: 100ma @ 28VDC

Ordering Information

Back to Top

Part No.	Description
960	SPST Switch (Form A)
960-2	SPDT Switch (Form C)

Product Literature

Back to Top

For product-specific literature, see list below.
For related marketing materials, click here.

Commercial Security Accessories Brochure - Canada
Contact Wire Compliance
Data sheet
French Commercial Security Accessories Brochure - Canada
Sensors Competitive Cross Reference Charts

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- Magnetic Contact Guide - Commercial Contacts
- Magnetic Contacts Cross Reference

Support Materials

- 960 Diagram

AutoCAD Drawings

- 960 DWG
- 960 EPS
- 960 DXF
- 960 WMF