COMPLIMENTARY PRODUCTS

g gotham | E ∨ o°

Multiple Layers of Light



Available with 10% dimming, 1% dimming, or dim to dark

UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare

Batwing distribution with feathered edges provides even

illumination on horizontal and vertical surfaces

in Interior Lighting. UGR FAQ













General Illumination Round Downlight





250 - 8,000 lumens



10,000 - 17,500 lumens



Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- · Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling

Distribution





Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000	10,000	12,000	15,000	17,500	
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247	10637	12332	15776	17801	
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9	97.1	115.0	150.9	175.3	
Lumens	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1	109.5	107.2	104.5	101.5	

^{*}Based on 3500K AR LSS MWD 80CRI

Coordinated Apertures I Multiple Layers of Light



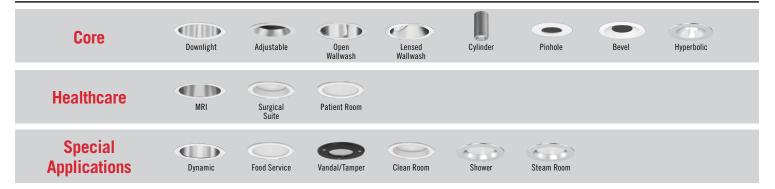




High Center Beam Layer I Incito



EVO + Incito — Multiple Layers of Light







EXAMPLE: EV06 35/150 AR MWD LSS MVOLT EZ1

Luminaire Type:
Catalog Number:

Series	Color Temperature	Nominal Lumen Values	Nominal Lumen Values R		Reflector & Flange Color		Trim Style		Finish	
EV06	27/ 2700 K	02 250 lumens 4	40 4000 lumens	AR	Clear	(blank)	Self-flanged	LSS	Semi-specular	
	30/ 3000 K	05 500 lumens 4	45 4500 lumens	PR	Pewter	FL	Flangeless	LD	Matte-diffuse	
	35/ 3500 K	07 750 lumens	50 5000 lumens	WTR	Wheat			LS	Specular	
	40/ 4000 K	10 1000 lumens	60 6000 lumens	GR	Gold					
	50/ 5000 K	15 1500 lumens	80 8000 lumens	WR ¹	White					
		20 2000 lumens	100 10000 lumens	BR ¹	Black					
		25 2500 lumens	120 12000 lumens	WRAMF1	White Anti-microbial					
		30 3000 lumens	150 15000 lumens	TRALTBD1,2	RAL paint for pricing only					
		35 3500 lumens	175 17500 lumens	TCPC ¹	Custom paint color					

Distribution		Voltage	Driver ⁵					
	VND	Very Narrow (0.5 s/mh)	MVOLT	GZ10	0-10V driver dims to 10%		EDXB	eldoLED POWERdrive DMX with RDM (remote device
	ND	Narrow (0.7 s/mh)	120	GZ1	0-10V driver dims to 1%			management). Square Law dimming to <1%. In-
	MD	Medium (0.9 s/mh)	277	EZ10	eldoLED 0-10V ECOdrive. Linea	r dimming to 10% min.		cludes termination resistor. Refer to <u>DMXR Manual</u> . Minimum 1000 lumens/Maximum 15000 lumens.
	MWD	Medium Wide (1.0 s/	3473,4	EZ1	eldoLED 0-10V ECOdrive. Linea	r dimming to 1% min.	ECOD ⁶	Lutron Ecosystem digital Hi-Lume 1% soft-on, fade
		mh)		EZB	eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.		LOOD	to black. Max: 4000LM.
	WD	Wide (1.2 s/mh)		EDAB	eldoLED SOLOdrive DALI. Logar	ithmic dimming to <1%.		

Control Interfa	Control Interface		Emergency Options		
NLT ⁷	nLight® dimming pack controls	EL	Emergency battery pack, 10W, with integral test switch	SF TRW ¹¹	Single fuse. Specify 120V or 277V. White painted flange
NLTER ^{3,7,8}	nLight® dimming pack controls emergency circuit	ELR	Emergency battery pack, 10W, with remote test switch	TRBL ¹²	Black painted flange
NLTAIR29,10	nLight® AIR enabled	AIR enabled ELSD Emergency battery pack, 10W, with self-diagnostics integral test switch	FRALTBD ² FCPC	Flange ring only RAL color for pricing only Flange custom paint color	
NLTAIRER23,8,10	emergency	ELRSD	Emergency battery pack, 10W, with self-diagnostics, remote test switch	N80 ¹³ GTD	nLight® Lumen Compensation generator transfer device. Specify 120V or 277V
NLTAIREM2 ^{3,9}	nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency	E10WCP	Emergency battery pack, 10W Constant Power, CA Title 20 compliant with	90CRI CP ¹⁴	High CRI (90+) Chicago Plenum. Specify 120V or 277V for 5000lm and above.
	circuit with battery pack options.	E10WCPR	integral test switch Emergency battery pack, 10W Constant	HAO ¹⁵	HAO High Ambient Option (40°C) RELOC®-ready luminaire connectors enable a simple and consistent factory
	The state of the s		Power, CA Title 20 compliant with remote test switch	RRL_	installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on www.acuitybrands.
		BGTD	Bodine generator transfer device. Specify 120V or 277V.		com for RELOC® product specifications. Above ceiling access required.

ACCESSORIES – order as separate catalog numbers (shipped separately)

SCA6 Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D. Refer to <u>TECH-190</u>.

CTA EV06 6" Aperture ceiling thickness adapter, for up to 8,000LM (extends mounting frame to accommodate ceiling thickness up to 5").

CTA4-8 YK 4"-8" Aperture ceiling thickness adapter for use with EDXB or CP up to 8,000LM, or nTune options (extends mounting frame to accommodate ceiling thickness up to 5").

CTA4-8 YKHL 6" Aperture ceiling thickness adapter, for 10,000LM and up (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB,

CP or nTune options.

ISD BC 0-10V wallbox dimmer. Refer to <u>ISD-BC</u>.

ORDERING NOTES

- Not available with finished
- Replace with applicable RAL number and finish when ready to order. See <u>RAL BROCHURE</u> for available color options. Not available with emergency battery pack options.
- 3. Not available with emergency battery pack options.
- I. Supplied with factory installed step down transformer. Max 5000LM.
- 5. Refer to TECH-240 for compatible dimmers.
- Not available with nLight[®].
- Specify voltage
- 8. ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
- When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- 12. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option
- 13. Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- 14. 12,000LM max with EL or nLight[®] options. 5,000LM max with Lutron drivers combined with EL. Not available with ELR, HAO, or EXAB, or any nLight[®] AIR dimming options.
- 15. Only available 5000LM 15,000LM with eldoLED drivers.



Optical Assembly

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

Electrical

The luminaire shall operate from a 50 or 60 Hz ±3 Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

Controls

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

Dimming

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 - 10%, 100 - 1.0% or 100 - 0.1% of rated lumen output with a smooth shut off function to step to 0%.

eldoLED LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

Construction

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise). 40°C high ambient optional.

Listings

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling.

Government Procurement

BAA - Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations

BABA - Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act Please refer to www.acuitybrands.com/buy-american for additional information.

Photometrics

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

****** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

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





	Marked Spacing in Inches 25°C Ambient								
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture						
500-5000	None	None	None						
6000	24	12	5						
8000			11						
10000	36	18							
12000	30	10							
15000			9						
17500	72	36]						

	Marked Spacing in Inches 40°C Ambient								
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture						
5000	24	12	5						
6000	24	12	J						
8000									
10000	48	24	9						
12000									
15000	72	36	9						

Marked	Marked Spacing Chicago Plenum Enclosure in Inches 25°C Ambient								
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture						
250-6000	None	None	None						
8000	36	18	6						
10000	48	24	3						
12000	48	24	3						

	EVO - eldoLED Driver Default Dimming Curve								
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve						
EZ10	10%	Linear	Linear/Logarithmic						
EZ1	1%	Linear	Linear/Logarithmic						
EXA1	1%	Linear	Linear/Logarithmic						
EZB	<1%	Logarithmic	Linear						
EDAB	<1%	Logarithmic	Linear						
EXAB	<1%	Logarithmic	Linear						
EDXB	<1%	Square	Linear						

Marked S	Marked Spacing Chicago Plenum Open Frame in Inches 25°C Ambient							
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture					
250-5000	None	None	None					
6000	24	12	5					
8000			11					
10000	20	18						
12000	36	10						
15000			9					
17500	72	36						

	Driver	Control Provided (note: 347V/UVOLT versions provided with 347 option selected)						
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIRER2			
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2			
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2			
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2			
EZ1	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2			
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2			

How to Estimate Delivered Lumens in Emergency Mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

Flangeless Installation

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.



EVO with flangeless trim



*Dimensions in inches [centimeters]

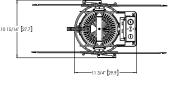
Aperture: 6 1/4" [15.9)]

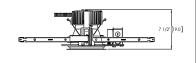
Ceiling Opening: 7 1/8" [18.1] self-flanged

Overlap Trim: 7 1/2" [19.1]

7 1/4" [18.4] flangeless

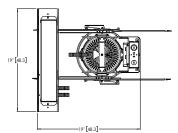
250LM-5000LM Standard





Aperture: Ø 6-1/4" [15.9]
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged
Overlap Trim: Ø 7-1/2" [19.1]
Ceiling Cutout: Ø 7-1/4" [18.4] Flangeless

250LM-5000LM Battery Pack





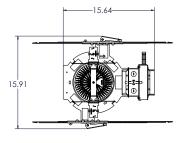
Aperture: Ø 6-1/4" [15.9]

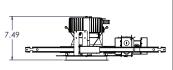
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged

Overlap Trim: Ø 7-1/2" [19.1]

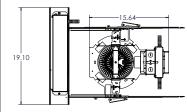
Ceiling Cutout: Ø 7-1/4" [18.4] Flangeless

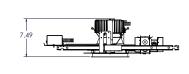
6000LM-8000LM Standard



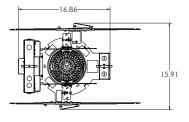


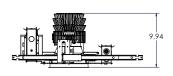
6000LM-8000LM Battery Pack



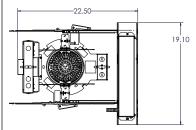


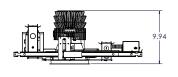
10,000LM-17,500LM Standard





10,000LM-17,500LM Battery Pack

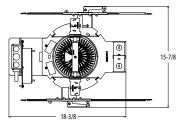


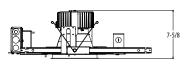




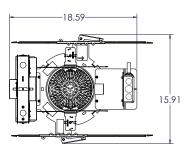
*Dimensions in inches [centimeters]

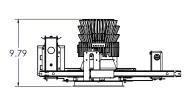
250LM-4500LM CP



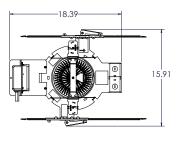


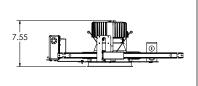
10000LM - 17,500LM Lumen Open Frame CP



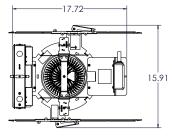


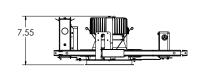
5000LM ECO/SOLO Drive Open Frame CP



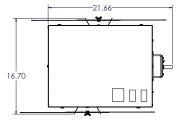


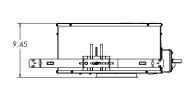
5000LM (Lutron & POWER Drive Only), 6000LM & 8000LM Open Frame CP



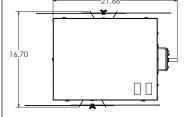


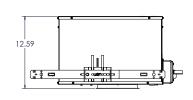
250LM - 6000LM CP Enclosed with Battery Pack and/or nLight™ Only



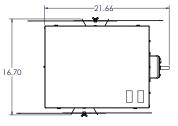


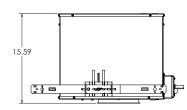
8,000LM CP Enclosed with Battery Pack and/or nLight™ Only



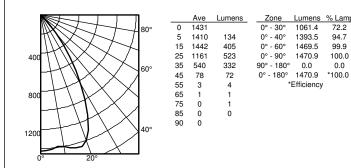


10,000LM-12,000LM CP Enclosed with Battery Pack and/or nLight™ Only









Inital FC Mounting Center Height 8.0 47.3 23.7 12.7 2.5 10.0 25.4 7.7 12.1 1.6 12.0 15.9 9.8 7.9 15.3 14.0 10.8 11.8 5.4 18.6 16.0 13.9 3.9

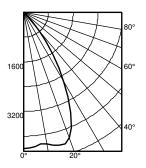
50% beam -

54.4°

10% beam -

77.9°

EV06 35/45 AR MWD LS INPUT WATTS: 47.3, DELIVERED LUMENS: 4532.7LM, LPW= 95.8, 1.03 S/MH, TEST NO. LTL27783P1649

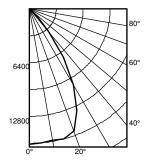


	Ave	Lumens	_	Zone	Lumens	% Lam
0	4411		(0° - 30°	3270.7	72.2
5	4346	413	(0° - 40°	4294.2	94.7
15	4443	1247	(0° - 60°	4528.3	99.9
25	3578	1610	(o° - 90°	4532.7	100.0
35	1665	1024	90	o° - 180°	0.0	0.0
45	242	222	0	° - 180°	4532.7	*100.0
55	8	12		*	Efficiency	
65	2	3				
75	1	2				
95	0	0				

		54.4	l°	77.9°		
	Inital FC					
Mounting	Center					
Height	Beam	Diameter	FC	Diameter	FC	
8.0	145.8	5.7	72.9	8.9	14.6	
10.0	78.4	7.7	39.2	12.1	7.8	
12.0	48.9	9.8	24.4	15.3	4.9	
14.0	33.4	11.8	16.7	18.6	3.3	
16.0	24.2	13.9	12.1	21.8	2.4	

50% beam - 10% beam -

EV06 35/175 AR MWD LS INPUT WATTS: 175.3, DELIVERED LUMENS: 17801LM, LPW=101.5, 1.06 S/MH, TEST NO. ISF 34035P268



	Ave	Lumens	Zone	Lumens	% Lamp
0	16146		0° - 30°	12002.3	67.4
5	15998	1521	0° - 40°	16291.0	91.5
15	16006	4479	0° - 60°	17746.3	99.7
25	13362	6001	0° - 90°	17801.0	100.0
35	7018	4289	90° - 120°	0.0	0.0
45	1470	1299	90° - 130°	0.0	0.0
55	100	156	90° - 150°	0.0	0.0
65	37	38	90° - 180°	0.0	0.0
75	13	14	0° - 180°	17801.0	*100.0
85	2	2	*	Efficiency	
90	0				

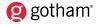
		50% be		10% be	
	Inital FC				
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	533.7	5.8	266.9	9.2	53.4
10.0	287.0	7.9	143.5	12.5	28.7
12.0	178.9	10.0	89.4	15.9	17.9
14.0	122.1	12.1	61.0	19.2	12.2
16.0	88.6	14.3	44.3	22.6	8.9

Lumen output multiplier					
CRI	CCT	Multplier			
	2700K	0.96			
	300K	1.00			
80	3500K	1.00			
	4000K	1.01			
	5000K	1.07			
	2700K	0.80			
	300K	0.83			
90	3500K	0.85			
	4000K	0.87			
	5000K	0.91			
· · · · · · · · · · · · · · · · · · ·					

Lumen Outnut Multiplier

Reflector Finish Multiplier			
Multiplier			
1			
0.956			
0.87			
0.85			
0.73			

Distributions					
Nomenclature	Field Angle				
VND	30	64			
ND	44	69			
MD	54	82			
MWD	67	89			
WD	71	92			





6"

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

nLight® AIR Control Accessories

Order as separate catalog number. Visit nLight AIR.

Wall Switches	Model Number		
On/Off single pole	rPODB (color) G2		
On/Off two pole	rPODB 2P (color) G2		
On/Off & raise/lower single pole	rPODB DX (color) G2		
On/Off & raise/lower two pole	rPODB 2P DX (color) G2		

nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts
- Only non-emergency rPP20, rLSXR, rSB0R, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

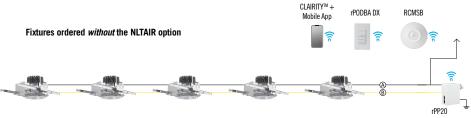
nLight® Wired Control Accessories Order as separate catalog number. Visit nLight.

Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

Photocell Controls

Dimming nCM ADCX

Possibilites for nLight® AIR



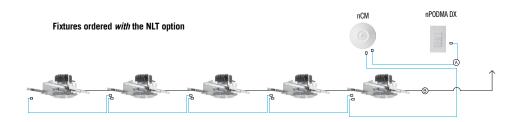




Possibilites for nLight® wired



nPS 80 EZ or nPP16 D





nLight® Wired Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX
Cat-5 Cables (nlenum rated)	

Cat-5 Cables (plenum rated)





WST LED Architectural Wall Sconce













Specifications

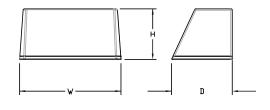
Luminaire

Height: 8-1/2" (21.59 cm)

Width: 17" (43.18 cm)

Depth: 10-3/16" (25.9 cm)

Weight: 20 lbs (9.1 kg)



Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixilated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.



Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED					
Series	Performance Package	Color temperature	Distribution	Voltage	Mounting
WSTLED	P1 1,500 Lumen package P2 3,000 Lumen package P3 6,000 Lumen package	27K 2700 K 30K 3000 K 40K 4000 K 50K 5000 K	VF Visual comfort forward throw VW Visual comfort wide	MVOLT ¹ 277 ² 120 ² 347 ² 208 ² 480 ² 240 ²	Shipped included (blank) Surface mounting bracket PBBW Premium surface-mounted back box ^{3,4} Shipped separately BBW Surface-mounted back box ³

ptions			Finish (req	uired)
NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights 5.6.7 NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights 5.6.7 PE Photoelectric cell, button type 8 PER NEMA twist-lock receptacle only (controls ordered separate) 9 PERS Five-wire receptacle only (controls ordered separate) 9 PERT Seven-wire receptacle only (controls ordered separate) 9 PIRH Motion/Ambient Light Sensor, 8-15' mounting height 5.6 PIRHFC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc 5.6 PIRH 180° motion/ambient light sensor, 15-30' mounting height, ambient sensor enabled at 1fc 5.6 SF Single fuse (120, 277, 347V)2 DF Double fuse (208, 240, 480V)2 DS Dual switching 10 O-10V dimming extend out back of housing for external control (control ordered separate) 11 ETWH Emergency battery backup, Non CEC compliant (7W) 7	E7WC E7WHR E20WH E20WC E23WHR LCE RCE BAA Shipped: RBPW VG WG	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{7,12} Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{2,13} Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ⁷ Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{7,12} Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{7,12,14} Left side conduit entry ¹⁵ Right side conduit entry ¹⁵ Buy America(n) Act Compliant	DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD DWHGXD DSSTXD	Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured black Textured natural aluminum Textured white Textured sandstone

See Accessories and Notes on next page.



Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U Premium Surface - mounted back box
WSBBW DDBXD U Surface - mounted back box
RBPW DDBXD U Retrofit back plate

 DLL127F 1.5 JU
 Photocell - SSL twist-lock (120-277V)⁷⁷

 DLL347F 1.5 CUL JU
 Photocell - SSL twist-lock (347V)⁷⁷

 DLL480F 1.5 CUL JU
 Photocell - SSL twist-lock (480V)⁷⁷

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 2 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 3 Also available as a separate accessory; see accessories information.
- 4 Top conduit entry standard.
- 5 Not available with VG or WG. See PER Table.
- 6 Reference Motion Sensor table.
- 7 Not available 347/480. E7WC or E23WHR, only available 120 or 277.
- 8 Need to specify 120, 208, 240 or 277 voltage.

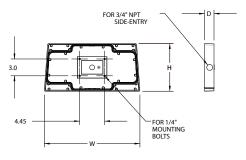
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 10 Not available with Emergency options, PE or PER options.
- 11 DMG option not available with standalone or networked sensors/controls.
- 12 Battery pack rated for -20° to 40°C.
- 13 Comes with PBBW.
- 14 Warranty period is 3-years.
- 15 Not available with BBW.
- 16 Must order with fixture; not an accessory.
- 17 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

Optional Back Box (PBBW)

Height: 8.49" (21.56 cm)

Width: 17.01" (43.21 cm)

Depth: 1.70" (4.32 cm)



Optional Back Box (BBW)

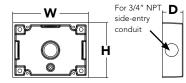
Height: 4"

(10.2 cm)

Width: 5-1/2"

(14.0 cm)

Depth: 1-1/2" (3.8 cm)



Emergency Battery Operation

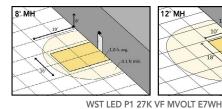
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of NFPA 70/NEC 2008 - 700.16

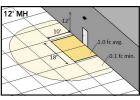
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

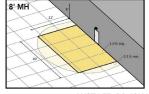
The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

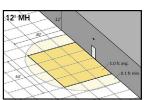
10' x 10' Gridlines 8' and 12' Mounting Height



COMMERCIAL OUTDOOR







WST LED P2 40K VF MVOLT E20WH



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40 $^{\circ}$ C (32-104 F).

Amb	Lumen Multiplier	
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

		Current (A)										
Performance package	System Watts	120	208	240	277	347	480					
P1	11	0.1	0.06	0.05	0.04							
P1	14					0.04	0.03					
P1 DS	14	0.12	0.07	0.06	0.06							
P2	25	0.21	0.13	0.11	0.1							
r2	30					0.09	0.06					
P2 DS	25	0.21	0.13	0.11	0.1							
P3	50	0.42	0.24	0.21	0.19							
P3	56					0.16	0.12					
P3 DS	52	0.43	0.26	0.23	0.21							

Motion Sensor Default Settings												
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time						
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min						
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min						

^{*}for use with site wide Dusk to Dawn control

PER Table

Control	PER		PER5 (5 wire)	PER7 (7 wire)							
Control	(3 wire)		Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7					
Photocontrol Only (On/Off)	~	A	Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
ROAM	0	~	Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
ROAM with Motion	0	A	Wired to dimming leads on driver	A	Wired to dimming leads on driver	Wires Capped inside fixture					
Futureproof*	0	A	Wired to dimming leads on driver	~	Wired to dimming leads on driver	Wires Capped inside fixture					
Futureproof* with Motion	0	A	Wired to dimming leads on driver	~	Wired to dimming leads on driver	Wires Capped inside fixture					



Recommended



^{*}Futureproof means: Ability to change controls in the future.

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.

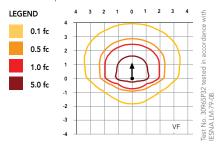
Performance Package System Watts (MVOLT¹)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)				40K (4000K, 70 CRI)					50K (5000K, 70 CRI)						
		Lumens	В	U	G	LPW	Lumens	В		G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	
D1	12111	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
P1 12W	12W	VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
PZ	25W	VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
Da	FOW	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
P3	50W	VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134

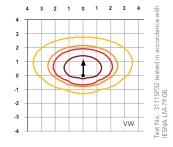


Photometric Diagrams

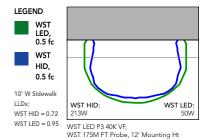
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').





Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

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. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly $^{\text{TM}}$ product, meaning it is consistent with the LEED $^{\otimes}$ and Green Globes $^{\text{TM}}$ criteria for eliminating wasteful uplight.

COMMERCIAL OUTDOOR

ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40° C ambient.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms.and-conditions

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.

