

General Illumination Round Lensed Wallwash

2"



Feature Set

- Superior optical control maintains a smooth, uniform distribution from ceiling to floor.
  - 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



Superior Performance

Nominal lumens	250	500	750	1000	1500
Delivered	229	468	694	929	1331
Wattage	3.4	6.3	9.7	12.7	21.2
Efficacy	68	74	72	73	63

\*Based on 3500K 80CRI AR LSS

Coordinated Apertures | Multiple Layers of Light




















General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core	 Downlight	 Adjustable	 Open Wallwash	 Lensed Wallwash	 Cylinder	 Pinhole	 Bevel	 Hyperbolic
Healthcare	 MRI	 Surgical Suite	 Patient Room					
Special Applications	 Dynamic	 Food Service	 Vandal/Tamper	 Clean Room	 Shower	 Steam Room		

ORDERING INFORMATION

A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EV02LW 35/15 AR LSS MVOLT UGZ

Series		Color Temperature		Lumens		Reflector Color		Flange Type		Reflector Finish	
EV02LW	2in Round Lensed Wallwash	27/	2700 K	02	250 lumens	AR	Clear	(blank)	Self-flanged	LSS	Semi-specular
		30/	3000 K	05	500 lumens	PR	Pewter	FL	Flangeless	LD	Matte diffuse
		35/	3500 K	07	750 lumens	WTR	Wheat				
		40/	4000 K	10	1000 lumens	GR	Gold				
		50/1	5000 K	15	1500 lumens	WR <sup>2</sup>	White painted				
						BR <sup>2</sup>	Black				
						BZR <sup>2</sup>	Dark Bronze painted				

Voltage		Driver		Control Interface <sup>4</sup>		Options	
MVOLT	120V - 277V	UGZ <sup>3</sup>	Universal dimming to 1% (0-10V, 120V TRIAC or ELV)	(blank)		90CRI <sup>1</sup>	High CRI (90+)
120	120V			NLT	nLight® dimming pack.	NCH <sup>6</sup>	Structural reinforcement pan
277	277V			NLTER <sup>5</sup>	nLight® dimming pack for fixtures on emergency circuit	ICAT <sup>7</sup>	IC/Airtight housing construction
				NLTAIR2	nLight® AIR dimming pack.	CP <sup>7</sup>	Chicago Plenum
				NLTAIRER2 <sup>5</sup>	nLight® AIR dimming pack for fixtures on emergency circuit	HAO	High ambient (40°C)
				NLTAIREM2	nLight® AIR dimming pack for fixtures on emergency circuit	N80 <sup>10</sup>	nLight Lumen Compensation
						TRW <sup>8</sup>	White painted flange
						TRBL <sup>9</sup>	Black painted flange

ACCESSORIES — order as separate catalog numbers (shipped separately)

HS258	2-5/8" Hole saw
HS234FL	Hole saw for flangeless trim option
SDT 347/120 75VA	347V/120V, 75VA step down transformer. Must be remote mounted.

ORDERING NOTES

1. 5000K CCT not available with 90CRI

2. Not available with Reflector Finish

3. Refer to Tech 240 for compatible dimmers.

4. Field installed. Access required to location of remote mounted device

5. ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.

6. NCH is required for T-grid ceilings or where code requires.
7. Not available with 1500lm

8. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector). Not available with FL.

9. For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector). Not available with FL.

10. Requires NLT or NLTER.

## Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling.  
Flangeless trim option includes proprietary Gotham mud ring enabling seamless integration into drywall applications. Mud ring ships separately.

## Electrical

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. Support 347V via remote-mounted stepdown transformer. 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.

## Controls

Luminaire shall be equipped with interface for nLight wired or nLight AIR networks 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 – 1.0% of rated lumen output with a smooth shut off function to step to 0%.

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

## Construction

Light engine and driver are accessible from below ceiling.

Several additional mounting options available including a structural reinforcement pan, Chicago plenum, and Type IC.

Anodized extruded aluminum wiring compartment with hinged access. With two 1/2" trade-sized knockouts rated for 90°C.

Accommodates between 3/8" to 2-3/4"-thick ceilings.

## Listings

Fixtures are UL 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.

IC rated with ICAT option. Fixtures with ICAT option are compatible with spray foam insulation with an R-value of 4.3 per inch or less.

## 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 the center of the quadrangles defined in ANSI C78.377-2015.

## 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](http://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](http://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.

## 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® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

Tables of Use

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
UGZ	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM G2	RPP20 D 24V ER G2

Marked Spacing in Inches 25°C Ambient			
Lumen Package	Fixed Center to Center MIN	Fixture Center to Building Member MIN	Space Above Fixture
1500 (HAQ)	18	9	3

Flangeless

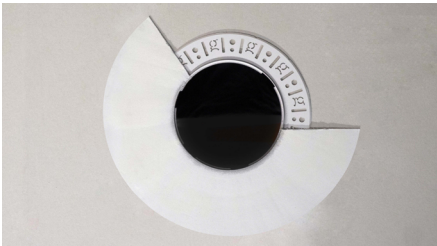
Flangeless Installation

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]

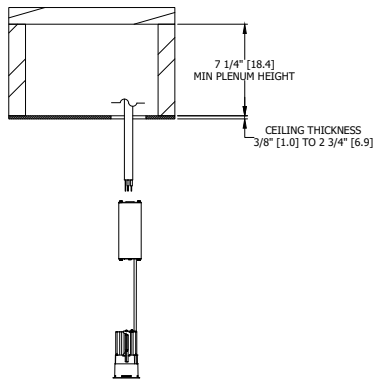
Aperture: 2-1/4" [5.7]

Ceiling Opening: 2-5/8" [6.7] self-flanged

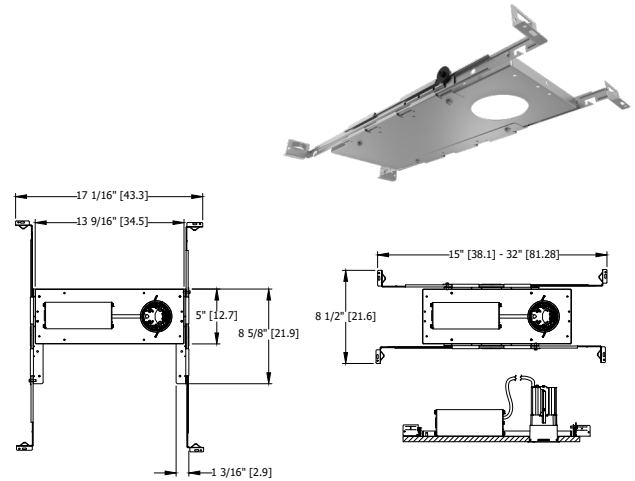
Overlap Trim: 3" [7.6]

2-3/4" [7] flangeless

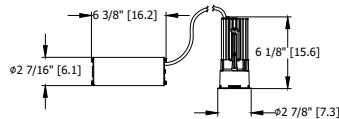
### Recessed Application - Minimum Clearance Requirements



### Structural Reinforcement Pan



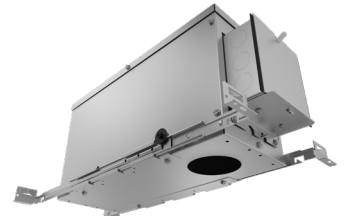
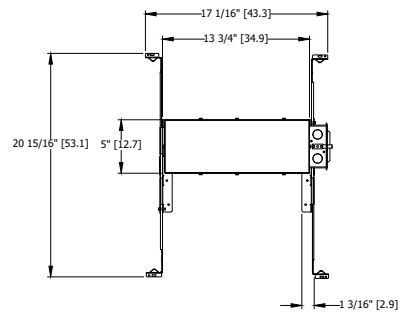
### 1000 Lumen and Below Install-from-Below Construction



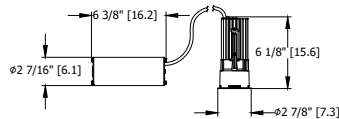
Ceiling cutout:  $\phi$ 2 5/8" [6.7]  
Flex conduit length: 16" [40.6]  
Ceiling thickness range: 3/8" [1.3] to 2 3/4" [6.9]



### IC / Airtight Housing / Chicago Plenum Construction



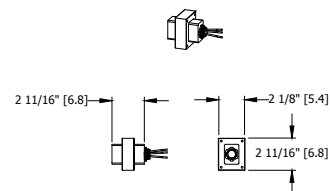
### 1500 and 2000 Lumen or High Ambient Option Install-from-Below Construction



Ceiling cutout:  $\phi$ 2 5/8" [6.7]  
Flex conduit length: 16" [40.6]  
Ceiling thickness range: 3/8" [1.3] to 2 3/4" [6.9]



### 347V Transformer

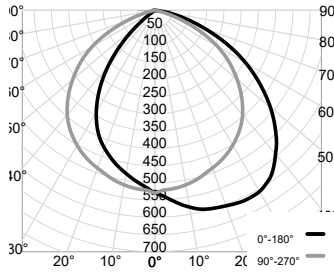


347 Transformer:  
Install to accessible  
junction box by others

CONSULT [WWW.GOTHAMLIGHTING.COM](http://WWW.GOTHAMLIGHTING.COM) FOR ADDITIONAL PHOTOMETRY

EVO2LW 35/15 AR LSS Input Watts: 21.2, Delivered Lumens: 1331, LPW: 62.8, S/MH: 1.59, Test No: 19-648-05P57

Photometry



CP Summary

Zonal Lumen Summary

Luminance (cd/sq.m)

					Average Luminance	
	0°	90°	Zone	Lumens	% Fixture	
0°	530	530	0° - 30°	424	32%	0° 157,881
5°	552	521	0° - 40°	694	52%	45° 208,729
15°	596	502	0° - 60°	1,158	87%	55° 193,121
25°	610	472	0° - 90°	1,331	100%	65° 161,778
35°	587	427	90° - 180°	0	0%	75° 104,605
45°	495	356	0° - 180°	1,331	100%	85° 17,448
55°	372	263				
65°	229	147				
75°	91	34				
85°	5	1				
90°	6	0				

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.910
	3000K	0.946
	3500K	1.000
	4000K	1.027
	5000K	1.054
90	2700K	0.784
	3000K	0.847
	3500K	0.874
	4000K	0.946

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LSS - Semi Specular	1.00
LD - Matte Diffuse	0.98
Reflector Color	Multiplier
WR - White	0.98
BR - Black	0.92
BZR - Bronze	0.91
AR - Clear	1.00
GR - Gold	0.99
PR - Pewter	0.99
WTR - Wheat	0.98

**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, rSBOR, 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® Wired** 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
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#### nLight® Wired Control Accessories (cont.)

##### Occupancy Sensors (PIR/dual tech)

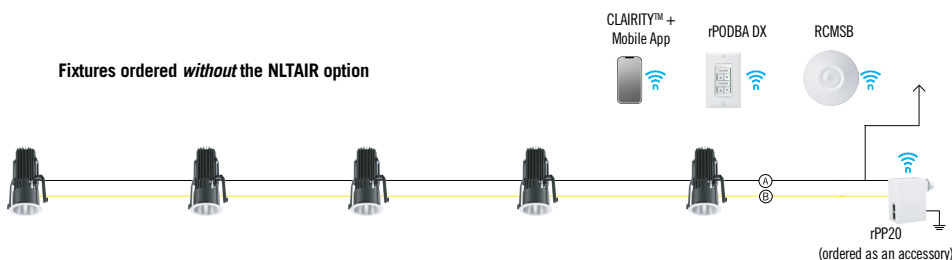
Model Number	
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

##### Cat-5 Cables (plenum rated)

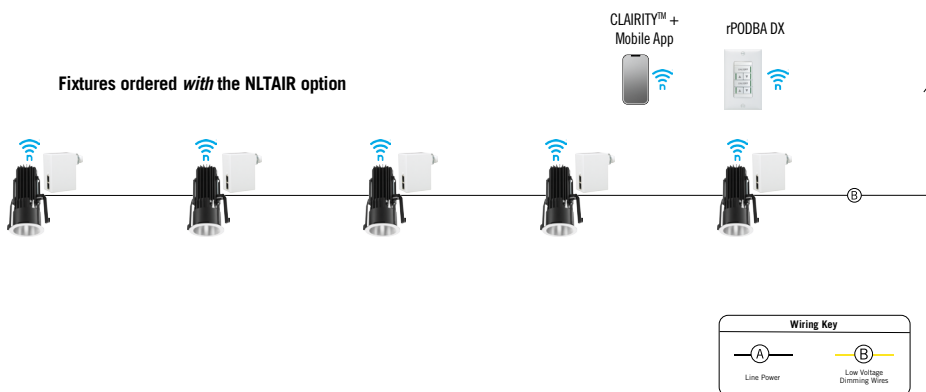
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

#### Possibilities for nLight® AIR

##### Fixtures ordered *without* the NLTAIR option

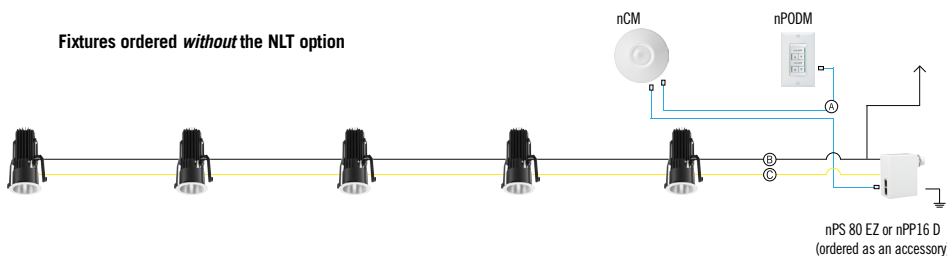


##### Fixtures ordered *with* the NLTAIR option



#### Possibilities for nLight® wired

##### Fixtures ordered *without* the NLT option



##### Fixtures ordered *with* the NLT option

