COMPLIMENTARY PRODUCTS

Multiple Layers of Light



Luminaire Type: Catalog Number:











General Illumination Round Downlight

2"

Feature Set

- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- Bounding Ray[™] optical design
- 50° Cutoff to source and source image
- · Field interchangeable optic
- · Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours

- 2.5 SDCM; 85 CRI typical, 90+ CRI optional
- · Fixtures are wet location, covered ceiling
- · ENERGY STAR® Certified product



Distribution





medium wide 1.0 S:MH



wide 1.2 S:MH

Superior Performance

Nominal lumens	250	500	750	1000	1500	2000
Delivered	265	540	802	1073	1537	2094
Wattage	3.4	6.3	9.7	12.7	21.2	31.7
Efficacy	78	85	83	84	73	66

*Based on 3500K 80CRI 15D AR LSS

ds design select

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

Coordinated Apertures | Multiple Layers of Light





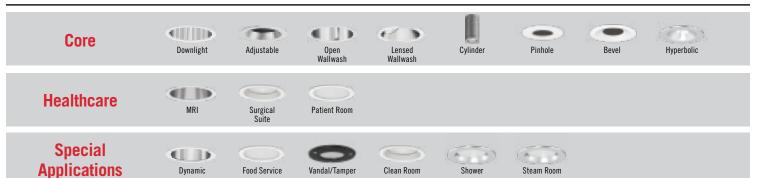
General Illumination Layer I EVO







EVO + Incito — Multiple Layers of Light





2"

General Illumination Round Downlight



Luminaire Type:

Catalog Number:

EXAMPLE: EV02 35/20 AR LSS ND MVOLT UGZ

Series		Color	Temperature	Lume	ens	Reflect	Reflector Color		Flange Type		ctor Finish	Distrib	ution
	/O 2in Round ben Downlight	27/ 30/ 35/ 40/ 50/1	2700 K 3000 K 3500 K 4000 K 5000 K	02 05 07 10 15 20	250 lumens 500 lumens 750 lumens 1000 lumens 1500 lumens 2000 lumens	AR PR WTR GR WR² BR² BZR²	Pewter Wheat Gold White painted Black Dark Bronze painted	(blank) FL	Self-flanged Flangeless	LSS	Semi-specular Matte diffuse	ND MWD WD	Narrow (0.8 s/mh) Medium Wide (1.0 s/mh) Wide (1.2 s/mh)

Voltage		Driver		Control Inter	face⁴	Options	Options			
MVOLT	120V - 277V	UGZ ³	Universal dimming to 1% (0-10V,	(blank)		90CRI ¹	High CRI (90+)			
120	120V		120V TRIAC or ELV)	NLT	nLight® dimming pack.	NCH ⁶	Structural reinforcement pan			
277	277V			NLTER ⁵	nLight® dimming pack for fixtures	ICAT ⁷	IC/Airtight housing construction			
					on emergency circuit	CP7	Chicago Plenum			
				NLTAIR2	nLight® AIR dimming pack.	HAO8	High ambient (40°C)			
				NLTAIRER25	nLight® AIR dimming pack for	N80 ⁹	nLight Lumen Compensation			
					fixtures on emergency circuit	TRW ¹⁰	White painted flange			
				NLTAIREM2	nLight® AIR dimming pack for fixtures on emergency circuit	TRBL ¹¹	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.
- Field installed. Access required to location of remote mounted device
- ER for use with generator supply power. Will require an emergency hot feed and normal hot feed.
- 5. NCH is required for T-grid ceilings or where code requires.
- 7. Not available with 1500lm or 2000lm

- 8. Not available with 2000lm
- 9. Requires NLT or NLTER.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (White Reflector). Not available with FL.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (Black Reflector). Not available with FL.



Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from below the ceiling.

Optical design is a Bounding Ray™ design with 50° cutoff to source and source image. Top down flash characteristic for superior glare control.

Flangeless trim option includes proprietary Gotham mud ring enabling seamless integration into drywall applications. Mud ring ships separately. Superior 100% Virgin-silicone refractive optic, enables maximum dimensional stability and optical transmission with no discoloration over life. Field inter-changeable optics.

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. 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. ENERGY STAR® Certified product.

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.

Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit www.energystar.gov for specific configurations listed

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.

Buy American Act

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. 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.

****** 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.





	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									
2000	18	9	3						
1500 (HAO)	18	9	3						

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

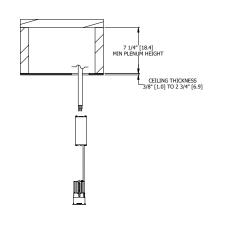
2"

*Dimensions in inches [centimeters]

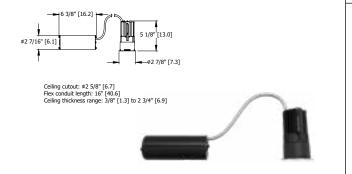
Aperture: 2-1/4" [5.7] Ceiling Opening: 2-5/8" [6.7] self-flanged

Overlap Trim: 3" [7.6] 2-3/4" [7] flangeless

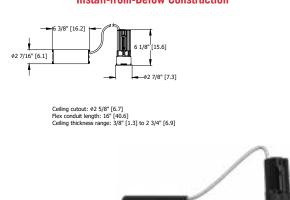
Recessed Application - Minimum Clearance Requirements



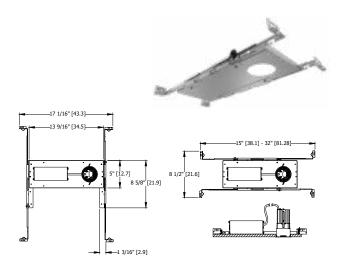
1000 Lumen and Below Install-from-Below Construction



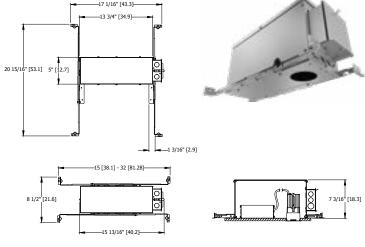
1500 and 2000 Lumen or High Ambient Option Install-from-Below Construction



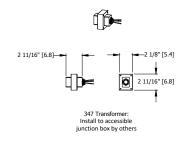
Structural Reinforcement Pan



IC / Airtight Housing / Chicago Plenum Construction



347V Transformer

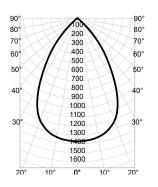






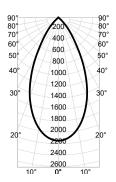
CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

EVO2 35/15 AR LSS MWD Input Watts: 21.2, Delivered Lumens: 1537, LPW: 72.5, S/MH: 1.02, Test No: 19-649-02P65



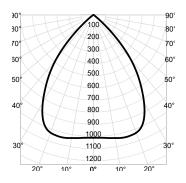
	CP nmary	Zonal L	umen Sı	ımmary		Coefficients of Utilization					Cone of Light				Luminance (cd/sq.m)				
					ρf					20%					Mounting Height	Initial FC	Beam Diameter		
					ρс		80%			70%			50%			Center			Average
	0°	Zone	Lumens	% Fixture	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%		Beam			Luminance
0°	1,373	0° - 30°	973	63%	0	119	119	119	116	116	116	111	111	111	6.0	38.1	7.8	0°	521,285
5°	1,365	0° - 40°	1,350	88%	1	110	108	105	108	106	104	104	102	101	8.0	21.5	10.5	45°	110,600
15°	1,297	0° - 60°	1,532	100%	2	102	98	94	100	97	93	97	94	91	10.0	13.7	13.1	55°	9,597
25°	1,061	0° - 90°	1,537	100%	3	95	89	85	93	88	85	91	87	83	12.0	9.5	15.7	65°	3,234
35°	603	90° - 180°	0	0%	4	88	82	78	87	81	77	85	80	76	14.0	7.0	18.3	75°	1,760
45°	206	0° - 180°	1,537	100%	5	82	76	71	81	75	71	79	74	70				85°	871
55°	15				6	76	70	65	75	70	65	74	69	65	Beam Ang	gle: 66.3	3°		
65°	4				7	71	65	60	71	65	60	69	64	60	Field Angl	e: 94.1	0		
75°	1				8	67	60	56	66	60	56	65	60	56					
85°	0				9	63	56	52	62	56	52	61	56	52					
90°	0				10	59	53	49	58	53	49	58	52	48					

EVO2 35/15 AR LSS ND Input Watts: 21.2, Delivered Lumens: 1621, LPW: 76.5, S/MH: 0.80, Test No: 19-649-01P65



	CP nmary	Zonal L	umen Sı	ımmary	Coefficients of Utilization						Cone of Light				uminance cd/sq.m)				
	0°	Zone	Lumens	% Fixture	ρf ρc ρw	50%	80% 30%		50%	20% 70% 30%		50%	50% 30%	10%	Mounting Height		Beam Diameter		Average Luminance
0°	2.149	0° - 30°	1,188	73%	0	119	119	119		116	116	111	111	111	6.0	59.7	5.8	0°	815.772
5°	2.099	0° - 40°	1,494	92%	1	111	109	106	109	107	105	105	103	101	8.0	33.6	7.7	45°	74.252
15°	1.739	0° - 60°	1.617	100%	2	103	100	96	102	98	95	99	96	93	10.0	21.5	9.6	55°	6.420
25°	1,126	0° - 90°	1.621	100%	3	97	92	88	95	91	87	93	89	86	12.0	14.9	11.6	65°	2,156
35°	478	90° - 180°	0	0%	4	91	85	81	89	84	81	87	83	80	14.0	11.0	13.5	75°	1.173
45°	138	0° - 180°	1.621	100%	5	85	79	75	84	79	75	82	78	74				85°	871
55°	10				6	80	74	70	79	74	70	78	73	69	Beam An	gle: 51.5	5°		
65°	2				7	75	69	65	75	69	65	73	68	65	Field Ang	le: 84.5°			
75°	1				8	71	65	61	71	65	61	70	65	61					
85°	0				9	67	62	58	67	61	58	66	61	57					
90°	0				10	64	58	54	63	58	54	63	58	54					

EVO2 35/15 AR LSS WD Input Watts: 21.2, Delivered Lumens: 1472, LPW: 69.4, S/MH: 1.19, Test No: 19-649-03P65



	CP nmary	Zonal L	umen Sı	ımmary	Coefficie				ients	nts of Utilization					Cone of Light				Luminance (cd/sq.m)		
	0°	Zone	Lumens	% Fixture	ρf ρc ρw	50%	80% 30%	10%	50%	20% 70% 30%	10%	50%	50% 30%	10%	Mounting Height	Initial FC Center Beam	Beam Diameter		Average Luminance		
0°	1,011	0° - 30°	832	57%	0	119	119	119	116	116	116	111	111	111	6.0	28.1	9.7	0°	383,741		
5°	1,015	0° - 40°	1,241	84%	1	110	107	105	108	105	103	104	102	100	8.0	15.8	12.9	45°	137,982		
15°	1,040	0° - 60°	1,465	100%	2	101	97	93	100	96	92	96	93	90	10.0	10.1	16.1	55°	12,774		
25°	971	0° - 90°	1,472	100%	3	93	88	84	92	87	83	89	85	81	12.0	7.0	19.4	65°	4,312		
35°	662	90° - 180°	0	0%	4	86	80	75	85	79	75	83	78	74	14.0	5.2	22.6	75°	2,200		
45°	257	0° - 180°	1,472	100%	5	80	73	68	79	73	68	77	72	68				85°	1,307		
55°	19				6	74	67	63	73	67	62	72	66	62	Beam Ang	gle: 77.8	3°				
65°	5				7	69	62	57	68	62	57	67	61	57	Field Angl	e: 98.3	0				
75°	2				8	64	57	53	63	57	53	62	56	52							
85°	0				9	60	53	49	59	53	49	58	52	48							
90°	0				10	56	49	45	55	49	45	54	49	45							

Lumen Output Multiplier									
CRI	CCT	Multplier							
	2700K	0.910							
	3000K	0.946							
80	3500K	1.000							
	4000K	1.027							
	5000K	1.054							
	2700K	0.784							
90	3000K	0.847							
30	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							





2

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 <u>nLight AIR.</u>

 Wall Switches
 Model Number

 On/Off single pole
 rPODB (color) G2

 On/Off two pole
 rPODB 2P (color) G2

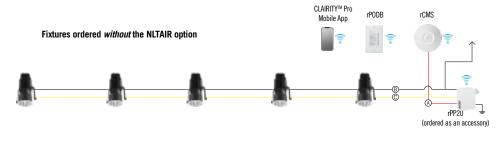
 On/Off & raise/lower single pole
 rPODB DX (color) G2

 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

Possibilites for nLight® AIR







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

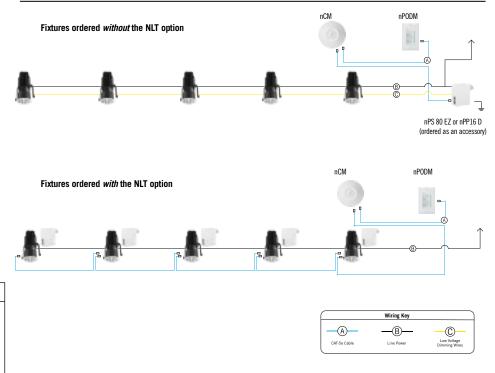
Order as separate catalog number. Visit nLight.

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

Photocell Controls

Dimming nCM ADCX

Possibilites for nLight® wired



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
 nWW 16 / nWW PDT 16

 Wall switch with raise/lower
 nWSX LV DX / nWSX PDT LV DX

Cat-5 Cables (plenum rated)