COMPLIMENTARY PRODUCTS

© gotham°∣имсито™ Multiple Layers of Light



Luminaire Type: Catalog Number:











High Center Beam Square Downlight

Feature Set

- Thirteen optimized distribution patterns allow designers to achieve tailored objectives
- Bounding Ray™ optical design
- 50° Cutoff to source and source image
- · Field interchangeable optic
- Driver and LED light engine fully serviceable from below ceiling
- 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

15° beam angle	20° beam angle	25° beam angle	30° beam angle	35° beam angle	40° beam angle	45° beam angle	50° beam angle	55° bea angle	m			
Superior	Performance	е							35°x15°	50°x20°	50°x60°	60°x70°

lumens	250	500	750	1000	1500	2000
Delivered	266	565	867	1187	1780	2248
Wattage	3.1	5.6	8.7	12.0	19.8	28.6
Efficacy	86	101	100	99	90	79

^{*}Based on 3500K 80CRI 15D AR LSS

Coordinated Apertures | Multiple Layers of Light



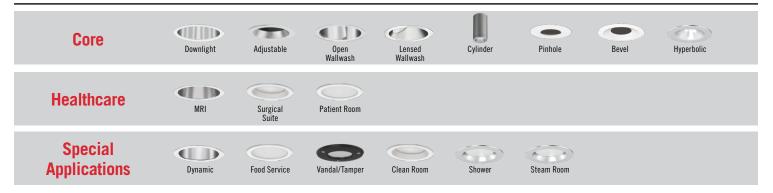




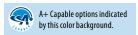
High Center Beam Layer I Incito



EVO + Incito — Multiple Layers of Light



High Center Beam Square Downlight



Luminaire Type:
Catalog Number:

EXAMPLE: ICO2SQ 35/10 AR LSS 20D MVOLT UGZ

Series		Colo	r Temperature	Lume	ens	Reflecto	r Color	Flange T	уре	Refle	ctor Finish	Beam	
CO2SQ	Incito 2in square Open 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 WR ² BR ² BZR ²	Clear Pewter Wheat Gold White painted Black Dark Bronze painted	(blank) FL	Self-flanged Flangeless	LSS	Semi-specular Matte diffuse	15D 20D 25D 30D 35D 40D 45D 50D 55D 3515D 5020D 5060D 6070D	15° beam angle 20° beam angle 25° beam angle 30° beam angle 40° beam angle 45° beam angle 55° beam angle Elliptical 35° x 20° beam angle Elliptical 50° x 60° beam angle Elliptical 60° x 70° beam angle
/- It		Dutana				Control Interface ⁵				041			
Voltage		Driver			10/ 10 101	1	ntertace			Optio			
MVOLT 120 277	120V	UGZ ³	Universal dimn 120V TRIAC or Lutron® EcoSys Lume <1% sof Min: 500LM; Mi	ELV) tem® di t-on, fa	igital Hi- de to black.	(blank) NLT NLTER ⁶ NLTAIR2 NLTAIREF	fixtures on em	ing pack for circuit imming pac imming pac iergency cir	ck. ck for cuit	90CR NCH ⁷ ICAT ⁸ CP ⁸ HAO ⁹ N80 ¹² TRW ¹	Structural rei IC/Airtight ho Chicago Plen High ambien nLight Lumer White painter	inforcemen busing cons um t (40°C) n Compens d flange	struction

${\tt ACCESSORIES--- order\ as\ separate\ catalog\ numbers\ (shipped\ separately)}$

ICO20PTC XXD Additional optics for field installation. Replace "XX" with beam angle.

ICO20PTC KIT Kit including a field interchangeable optic for each of the 13 preset beam distribution patterns

SDT 347/120 75VA 347V/120V, 75VA step down transformer. Must be remote mounted.

ORDERING NOTES

- 1. 5000K CCT not available with 90CRI.
- Not available with Reflector Finish.
- 3. Refer to Tech 240 for compatible dimmers.
- Not available with Control Interfaces (nLight). Not compatible with spray foam with 1000LM, 1500LM, or 2000LM options.
- 5. 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.
- '. NCH is required for T-grid ceilings or where code requires.

- 8. Not available with 1500lm or 2000lm.
- 9. Not available with 2000lm.

fixtures on emergency circuit

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

TRBL11

Black painted flange

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



Optical and Trim Assembly

Fully serviceable and upgradeable lensed LED light engine suitable for field maintenance or service from above or 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 6,000 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 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.

*See ordering tree for details



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									
90	3500K	0.874									
	4000K	0.946									

Reflector Finish Multiplier										
Reflector Finish	Multiplier									
LSS - Semi Specular	1.00									
LD - Matte Diffuse	1.06									
Reflector Color	Multiplier									
WR - White	1.05									
BR - Black	0.65									
BZR - Bronze	0.61									
AR - Clear	1.00									
GR - Gold	0.93									
PR - Pewter	0.98									
WTR - Wheat	0.99									

	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									

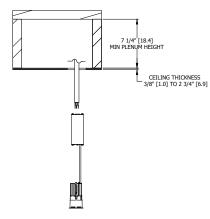
2-3/4" [7] flangeless

*Dimensions in inches [centimeters]

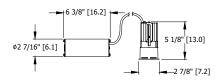
Aperture: 2-1/4" [5.7] Ceiling Opening: 2-5/8" [6.7] self-flanged

Overlap Trim: 3" [7.6]

Recessed Application - Minimum Clearance Requirements



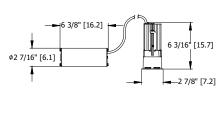
1000 Lumen and Below Install-from-Below Construction



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



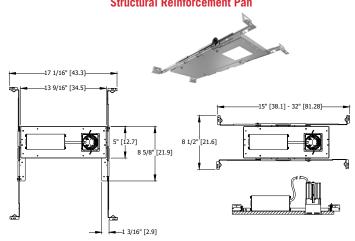
1500 and 2000 Lumen or High Ambient Option **Install-from-Below Construction**



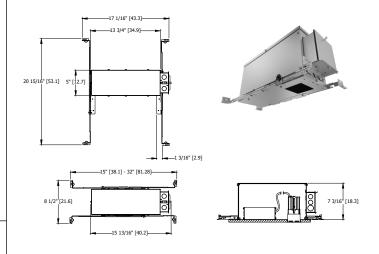
Ceiling cutout: 2 5/8" x 2 5/8" [6.7 x 6.7] Flex conduit length: 16" [40.6] Ceiling thickness range: 3/8" [1.3] to 2 3/4" [6.9]



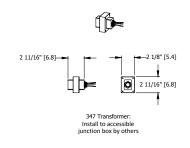
Structural Reinforcement Pan



IC / Airtight Housing / Chicago Plenum Construction



347V Transformer





@ gotham° | I N С I T O™



Partially finished mud ring, showing cross-section detail.



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



ICO with flangeless trim

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.



(cd/sq.m)

Average Luminance

561.125

2,443

706

1,026

Diameter

8.4 45° 72.022

10.5 55°

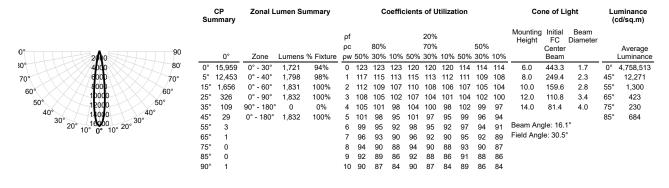
12.6

65°

75° 346

CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

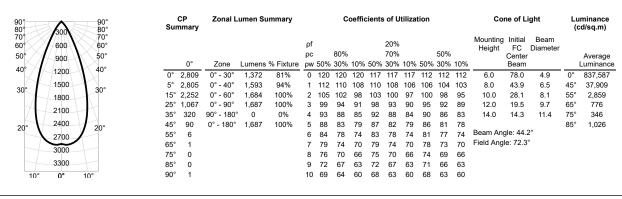
ICO2SQ 35/15 AR LSS 15D Input Watts: 19.8, Delivered Lumens: 1832, LPW: 92.5, S/MH: 0.27, Test No: 19-411-01P65



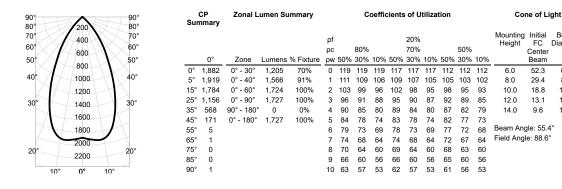
ICO2SQ 35/15 AR LSS 30D Input Watts: 19.8, Delivered Lumens: 1723, LPW: 87.0, S/MH: 0.49, Test No: 19-411-04P65

90° 80° 70° 60° 50°	M	90° 80° 70° 60° 50°		CP nmary	Zonal L	umen Sı	ımmary			C	oeffic	cients	of U	tilizat	ion			Co	ne of Li	ght		minance :d/sq.m)
60° 50°	1000	60° 50°						ρf					20%					Mounting Height		Beam Diameter		
40°	1500	40°						ρс		80%			70%			50%		. ioigin	Center	Diamotor		Average
30°	2000	30°		0°	Zone	Lumens	% Fixture	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%		Beam			Luminance
4	2500	4	0°	5,078	0° - 30°	1,490	86%	0	120	120	120	117	117	117	112	112	112	6.0	141.1	3.2	0°	1,514,133
			5°	4,732	0° - 40°	1,650	96%	1	113	111	109	111	109	107	107	106	104	8.0	79.3	4.3	45°	28,421
20°	3000	20°	15°	2,515	0° - 60°	1,721	100%	2	107	104	101	105	102	100	102	100	97	10.0	50.8	5.3	55°	2,651
	3500	-	25°	758	0° - 90°	1,723	100%	3	101	97	94	100	96	93	98	94	92	12.0	35.3	6.4	65°	706
	4000		35°	227	90° - 180°	0	0%	4	97	92	89	95	91	88	93	90	87	14.0	25.9	7.5	75°	346
L/'	4500	/\	45°	67	0° - 180°	1,723	100%	5	92	87	84	91	87	83	90	86	83				85°	1,026
	\		55°	5				6	88	83	80	87	83	79	86	82	79	Beam Ang	gle: 29.8	°		
1	6000	-	65°	1				7	84	80	76	84	79	76	83	79	76	Field Ang	le: 56.7°			
-	5500	-	75°	0				8	81	76	73	81	76	73	80	75	72					
10°	6000	10°	85°	0				9	78	73	70	78	73	70	77	73	70					
	0°		90°	1				10	75	70	67	75	70	67	74	70	67					

ICO2SQ 35/15 AR LSS 45D Input Watts: 19.8, Delivered Lumens: 1687, LPW: 85.2, S/MH: 0.72, Test No: 19-411-07P65



ICO2SQ 35/15 AR LSS 55D Input Watts: 19.8, Delivered Lumens: 1727, LPW: 87.2, S/MH: 0.88, Test No: 19-411-09P65





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

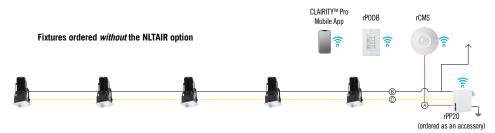
Order as separate catalog number. Visit nLight AIR.

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

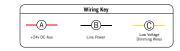
nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech) **Model Number** rCMS 9 / rCMS PDT 9 rCMS 10 / rCMS PDT 10

Possibilites for nLight® AIR







Possibilites for nLight® wired



nPS 80 EZ or nPP16 D (ordered as an accessory)

nPODM Fixtures ordered with the NLT option



Small motion 360°, ceiling Large motion 360°, ceiling

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) nPODM 2P DX (XX) On/Off & raise/lower two pole Graphic touchscreen nPOD GFX (XX)

Photocell Controls

Dimming nCM ADCX

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)

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