

High Center Beam Square Adjustable Downlight

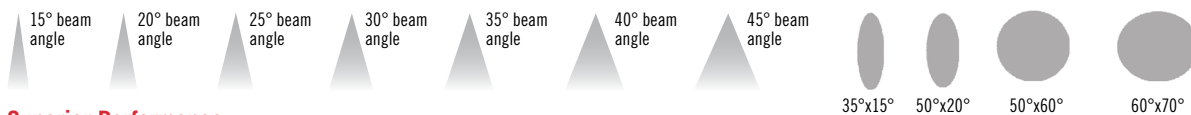
2"



Feature Set

- Eleven optimized distribution patterns allow designers to achieve tailored objectives
- Vertical tilt is self-locking from 0° - 40°; 365° of horizontal rotation. Can be hot aimed from below ceiling.
- 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



Superior Performance

Nominal lumens	250	500	750	1000	1500	2000
Delivered	249	530	812	1113	1668	2106
Wattage	3.1	5.6	8.6	12.0	19.7	28.4
Efficacy	80	95	94	93	85	74

*Based on 3500K 80CRI 15D AR LSS TFC @0 Degrees

Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

Core



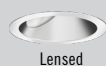
Downlight



Adjustable



Open Wallwash



Lensed Wallwash



Cylinder



Pinhole



Bevel



Hyperbolic

Healthcare



MRI



Surgical Suite



Patient Room

Special Applications



Dynamic



Food Service



Vandal/Tamper



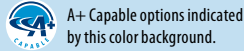
Clean Room



Shower



Steam Room



Luminaire Type:

Catalog Number:

EXAMPLE: IC02SQADJ 35/10 AR T20 LSS 20D MVOLT UGZ

Series	Color Temperature	Lumens	Reflector Color	Flange Type
IC02SQADJ Incito 2in Square Adjustable Downlight	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless
	35/ 3500 K	07 750 lumens	WTR Wheat	
	40/ 4000 K	10 1000 lumens	GR Gold	
	50/ 5000 K	15 1500 lumens	WR ² White painted	
		20 2000 lumens	BR ² Black	
			BZR ² Dark Bronze painted	

Type	Reflector Finish	Lensing	Beam	Voltage
TFC Flat Cut Trim to allow tilting 0°-40°	LSS Semi-specular	(blank) Open	15D 15° beam angle	MVOLT 120V - 277V
T20 ³ Angle Cut Trim to allow tilting 0°-23°	LD Matte diffuse	SOL ³ Solite pattern lens	20D 20° beam angle	120 120V
T40 ³ Angle Cut Trim to allow tilting 20°-40°			25D 25° beam angle	277 277V
			30D 30° beam angle	
			35D 35° beam angle	
			40D 40° beam angle	
			45D 45° beam angle	
			3515D Elliptical 35° x 15° beam angle	
			5020D Elliptical 50° x 20° beam angle	
			5060D Elliptical 50° x 60° beam angle	
			6070D Elliptical 60° x 70° beam angle	

Driver	Control Interface ⁶	Options
UGZ ⁴ Universal dimming to 1% (0-10V, 120V TRIAC or ELV)	(blank)	90CRI ¹ High CRI (90+)
EC00 ⁵ Lutron® EcoSystem® digital Hi-Lume <1% soft-on, fade to black. Min: 500LM; Max: 1500LM	NLT nLight® dimming pack.	NCH ⁸ Structural reinforcement pan
	NLTER ⁷ nLight® dimming pack for fixtures on emergency circuit	ICAT ⁹ IC/Airtight housing construction
	NLTAIR2 nLight® AIR dimming pack.	CP ⁹ Chicago Plenum
	NLTAIRER2 ⁷ nLight® AIR dimming pack for fixtures on emergency circuit	HAQ ¹⁰ High ambient (40°C)
	NLTAIREM2 nLight® AIR dimming pack for fixtures on emergency circuit	N80 ¹³ nLight Lumen Compensation
		TRW ¹¹ White painted flange
		TRBL ¹² Black painted flange
		WL ¹⁴ Wet Location

ACCESSORIES — order as separate catalog numbers (shipped separately)

IC020PTC XXD	Additional optics for field installation. Replace "XX" with beam angle.
IC020PTC 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.
AW50	Allen wrench (.050") for adjusting tilt

ORDERING NOTES

- 5000K CCT not available with 90CRI.
- Not available with Reflector Finish.
- SOL lens requires TFC trim.
- Refer to [Tech 240](#) for compatible dimmers.
- Not available with Control Interfaces (nLight). Not compatible with spray foam with 1000LM, 1500LM, or 2000LM options.
- 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.
- Not available with 1500lm or 2000lm.
- Not available with 2000lm.
- 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.
- Requires NLT or NLTER.
- WL requires a lens (e.g. SOL).

Optical and Trim Assembly

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

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 interchangeable 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 1/2" to 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.

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.

*See ordering tree for details

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	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 (HAQ)	18	9	3

*Dimensions in inches [centimeters]

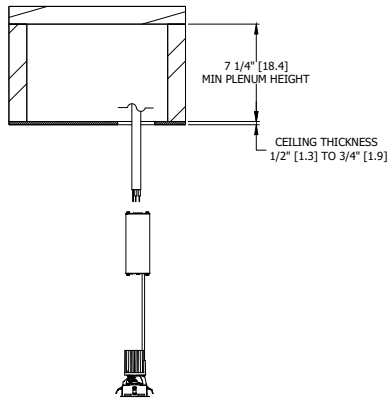
Aperture: 2-1/4" [5.7]

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

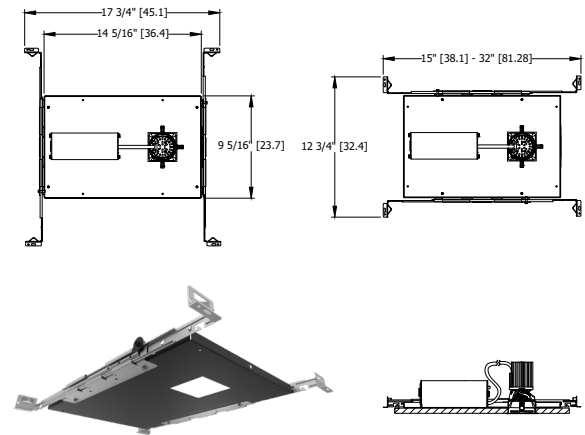
Overlap Trim: 3" [7.6]

2-3/4" [7] flangeless

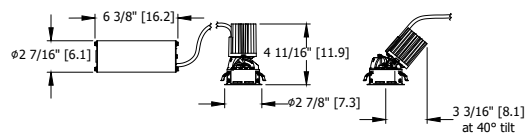
Recessed Application - Minimum Clearance Requirements



Structural Reinforcement Pan



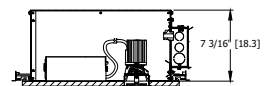
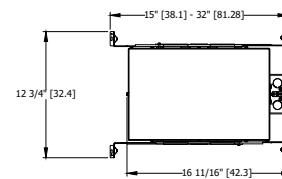
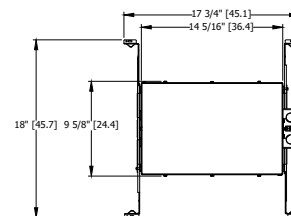
1500 Lumen and Below Install-from-Below Construction



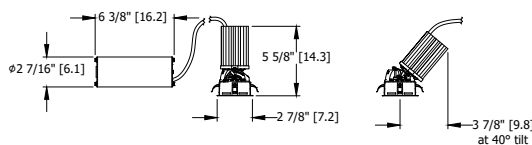
Ceiling cutout: ϕ 2 5/8" [6.7]
Flex conduit length: 16" [40.6]
Ceiling thickness range: 1/2" [1.3] to 3/4" [1.9]



IC / Airtight Housing / Chicago Plenum Construction



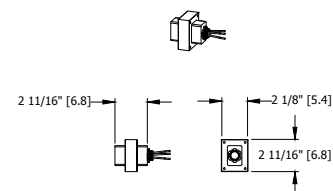
2000 Lumen or High Ambient Option Install-from-Below Construction



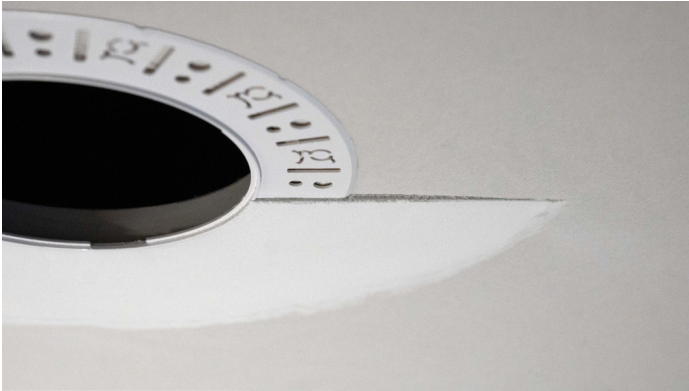
Ceiling cutout: 2 5/8" x 2 5/8" [6.7 x 6.7]
Flex conduit length: 16" [40.6]
Ceiling thickness range: 1/2" [1.3] to 3/4" [1.9]



347V Transformer



347 Transformer:
Install to accessible
junction box by others

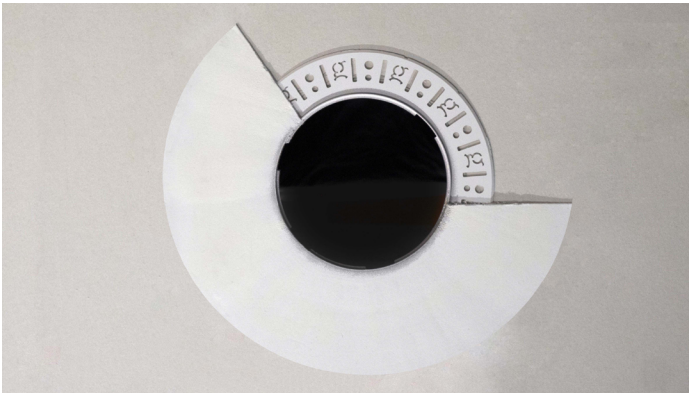


Partially finished mud ring, showing cross-section detail.

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.



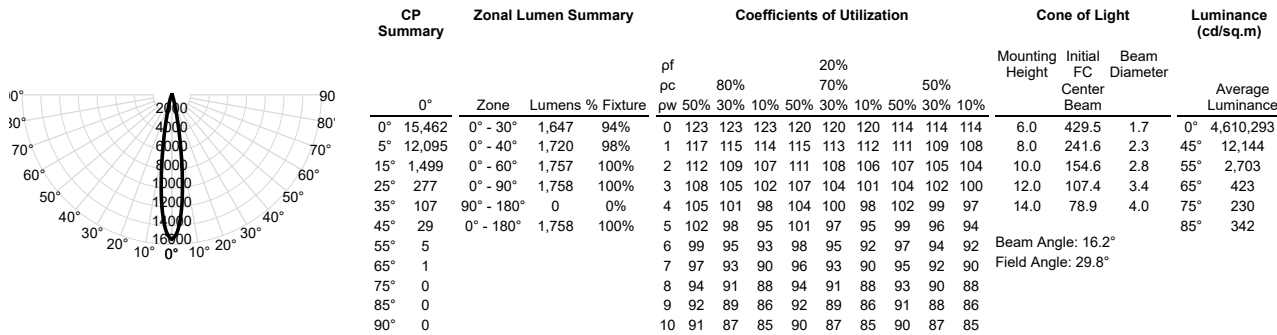
An ICO downlight requires only approximately 3" of plaster to finish.



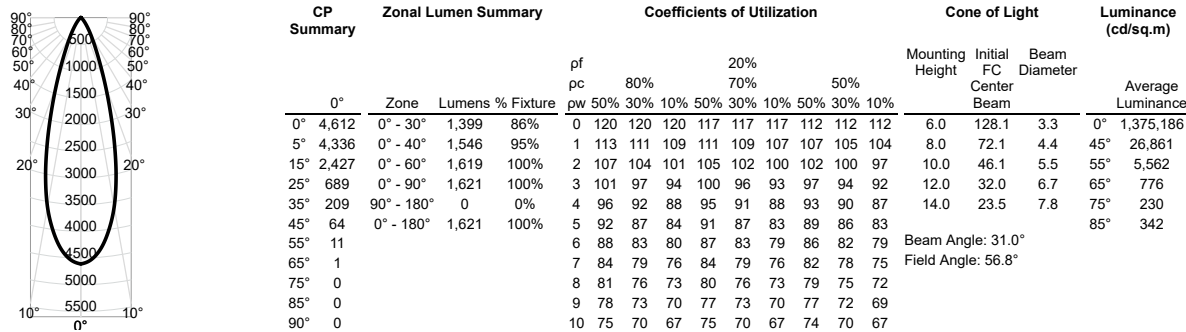
ICO with flangeless trim

CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY

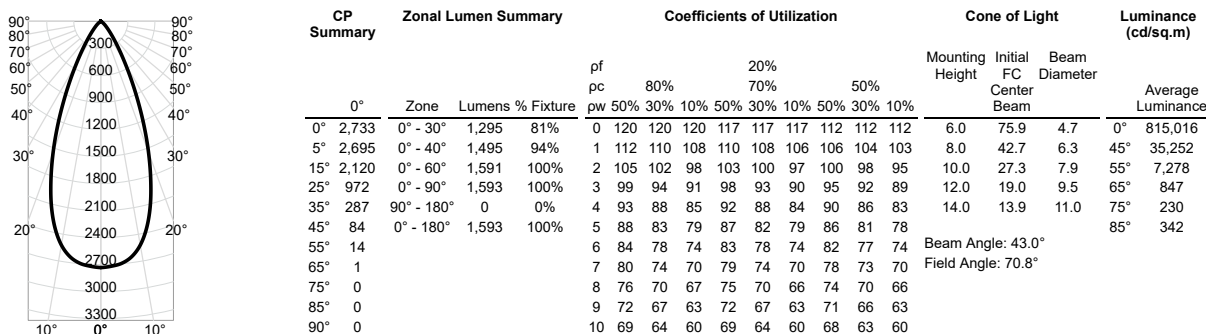
ICO2SQADJ 35/15 AR TFC LSS 15D @ 0DEG TILT Input Watts: 19.7, Delivered Lumens: 1758, LPW: 89.2, S/MH: 0.27, Test No: 19-451-01P129



ICO2SQADJ 35/15 AR TFC LSS 30D @ 0DEG TILT Input Watts: 19.7, Delivered Lumens: 1621, LPW: 82.3, S/MH: 0.52, Test No: 19-451-04P129



ICO2SQADJ 35/15 AR TFC LSS 45D @ 0DEG TILT Input Watts: 19.7, Delivered Lumens: 1593, LPW: 80.9, S/MH: 0.70, Test No: 19-451-07P129



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

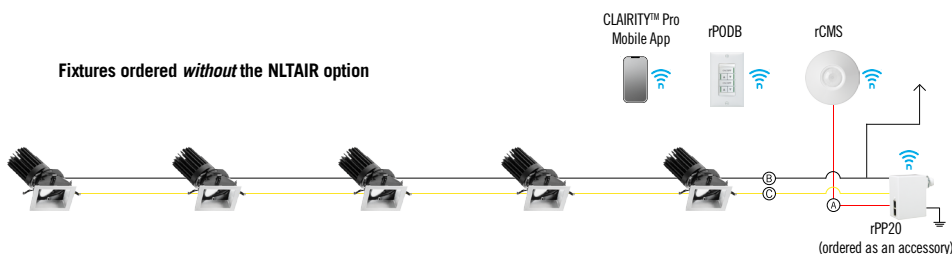
nLight® AIR Control Accessories (cont.)

Occupancy Sensors (PIR/dual tech)

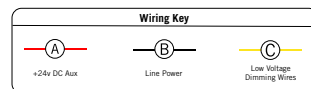
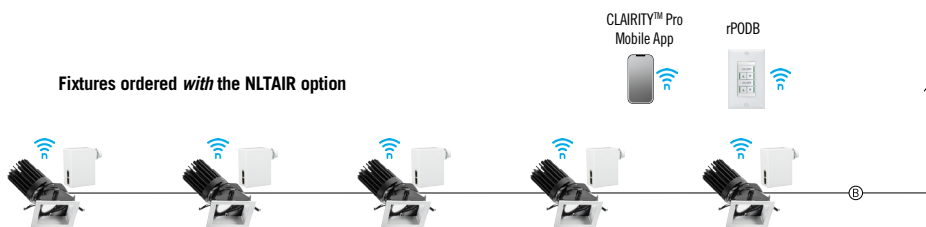
Model Number	
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

Possibilities for nLight® AIR

Fixtures ordered *without* the NLTAIR option



Fixtures ordered *with* the NLTAIR option



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)

Photocell Controls

Dimming	nCM ADCX
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nLight® Wired Control Accessories (cont.)

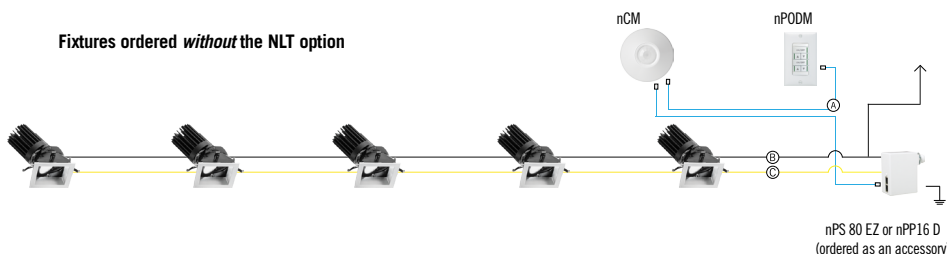
Occupancy Sensors (PIR/dual tech)

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

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option

