

# High Center Beam Round Downlight 4"

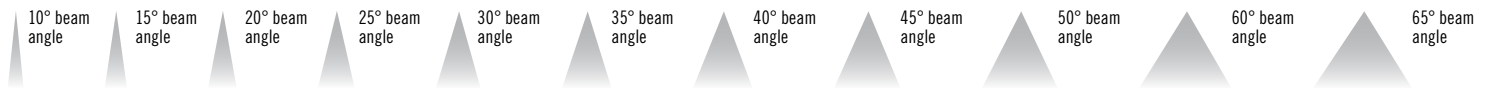


OVERVIEW

### Feature Set

- Eleven optimized distribution patterns allow designers to achieve tailored objectives
- Bounding Ray™ optical design
- 45° 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



### Superior Performance

Nominal Lumens	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000
Delivered	703	807	1062	1545	1977	2419	2920	3548	3982	4419	4848
Wattage	6.7	7.5	9.8	15.1	21.5	26.5	34.1	33.8	39.5	46.2	53.2
Efficacy	104	108	108	102	92	91	86	105	101	96	91

\*Based on 3500K 80CRI 35D AR LSS



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](http://www.acuitybrands.com/designselect).  
 \*See ordering tree for details

COMPLIMENTARY PRODUCTS

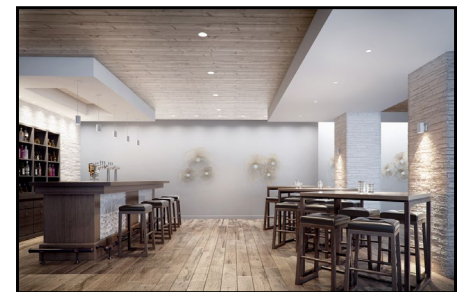
### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

								<b>Core</b>
Downlight	Open Wallwash	Lensed Wallwash	Cylinder	Downlight	Adjustable	Lensed Wallwash	Cylinder	
								<b>Special Applications</b>
Dynamic	Food Service	Vandal	Clean Room	Shower				

ORDERING INFORMATION

**ds** Design Select options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: IC04 35/15 AR LSS 35D 277 EZ1

Series	Color Temperature	Lumens	Reflector Color	Flange Type	Reflector Finish	Beam
<b>IC04</b> Incito 4in Round Downlight	27/ 2700 K	05 500 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	10D <sup>3</sup> 10° beam angle
	30/ 3000 K	07 750 lumens	PR Pewter	FL Flangeless	LD Matte diffuse	15D 15° beam angle
	35/ 3500 K	10 1000 lumens	WTR Wheat			20D 20° beam angle
	40/ 4000 K	15 1500 lumens	GR Gold			25D 25° beam angle
	50/ 5000 K	20 2000 lumens	WR <sup>1</sup> White painted			30D 30° beam angle
		25 2500 lumens	BR <sup>1</sup> Black			35D 35° beam angle
		30 3000 lumens	BZR <sup>1</sup> Dark Bronze painted			40D 40° beam angle
		35 3500 lumens	WRAMF <sup>1</sup> White Anti-microbial			45D 45° beam angle
		40 4000 lumens	TRALTB <sup>1,2</sup> RAL paint for pricing only			50D 50° beam angle
		45 4500 lumens	TCPC <sup>1</sup> Custom paint color			60D 60° beam angle
		50 5000 lumens				65D 65° beam angle

Voltage	Driver	Control Interface	Options
120 120V	GZ10 0-10V driver dims to 10%	(blank)	SF Single fuse.
277 277V	GZ1 0-10V driver dims to 1%	NLT <sup>8</sup> nLight® dimming pack.	90CRI High CRI (90+)
347 <sup>4,5</sup> 347V	EZ10 eldoLED 0-10V ECOdrive. Linear dimming to 10% min.	NLTER <sup>8,9</sup> nLight® dimming pack for fixtures on emergency circuit	TRW <sup>10</sup> White Painted Flange
	EZ1 eldoLED 0-10V ECOdrive. Linear dimming to 1% min.	NLTAIR2 nLight® AIR dimming pack.	TRBL <sup>11</sup> Black Painted Flange
	EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	NLTAIRER2 <sup>9</sup> nLight® AIR dimming pack for fixtures on emergency circuit	FRALTB <sup>2</sup> Flange ring only RAL color for pricing only
	EDAB <sup>7</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	NLTAIREM2 nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	FCPC Flange custom paint color
	EDXB <sup>5,6</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. MIN:1000 MAX:4000		ELR <sup>12</sup> Battery pack with remote test switch
	ECOD <sup>7</sup> Lutron® EcoSystem® digital Hi-Lume 1% soft-on, fade to black. Min: 500LM; Max: 4000LM.		CP <sup>13</sup> Chicago Plenum
			N80 nLight Lumen Compensation
			RRL RELOC® Ready Luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to RRL spec sheet on <a href="http://www.acuitybrands.com">www.acuitybrands.com</a> for RELOC® product specifications. Above ceiling access required.

**ACCESSORIES — order as separate catalog numbers (shipped separately)**

**OPTC4 XXD** Additional optics for field installation. Replace "XX" with beam angle.

**ORDERING NOTES**

- Not Available with Finishes.
- Replace with applicable RAL number and finish when ready to order. See RAL BROCHURE for available color options. Not available with emergency battery pack options. Not available with FL (flangeless) option.
- Only available 1500lm and below.
- Not available with ELR emergency option.
- Supplied with factory installed step down transformer.
- Includes terminator resistor.
- Not Available with Control Interfaces.
- Must specify 120 or 277.
- For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- 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.
- Must specify 120 or 277. Not available with 347. Require 13 1/2" above ceiling access for use with ELR option.
- Only available up to 3000 lumens. Specify 120 or 277.

**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 45° 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.

**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 fixture-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. Input wires shall be 18AWG, 300V minimum solid copper. All drivers are ROHS compliant.

**Controls**

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

**Emergency**

Luminaires supplied with a battery pack comply with NFPA 101 (Life Safety code) and deliver constant light output throughout the 90 minutes of code required emergency operation period when there is a normal AC power loss with remote test switch available.

**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**

Light engine and driver are accessible from above or below ceiling. 16-gauge black painted steel mounting frame with mounting bars included. Post-installation adjustment possible from above or below ceiling. Galvanized steel junction box with hinged access covers and spring latch. Three combination 1/2"-3/4" and one 1/2" knockout for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C. Accommodates up to 1 1/2"-thick ceilings.

**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. 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](http://www.energystar.gov) for specific configurations listed. IC-rated up to 1000 lumens.

**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 with 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](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 when used with Acuity Brands controls products. *All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.*

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

IC0 - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic*	Linear
EDXB	<1%	Square	Linear

\*Changable through DALI controller

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.916
	3000K	0.948
	3500K	1
	4000K	1.032
	5000K	1.1
90	2700K	0.748
	3000K	0.8
	3500K	0.838
	4000K	0.845
	5000K	0.945

Reflector Finish Multiplier	
Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73
BZR - Bronze	0.73

Driver		Control Provided				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIREM2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V EM 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 EM 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 EM 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 EM 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 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
5000	24	12	0.5
3500-4500 (GZ1/GZ10 Only)	24	12	0.5
4000-4500 w/CP (EZ1/EZ10 Only)	24	12	0.5
3500-4500 w/CP (GZ1/GZ10 Only)	24	12	0.5

ELR Availability/Compatibility – Initial Lumens			
LED			Initial Lumens
Product	Lumens	Watts	ELR
IC04	500-5000	6-53	630

DIMENSIONAL DATA

\*Dimensions in inches [centimeters]

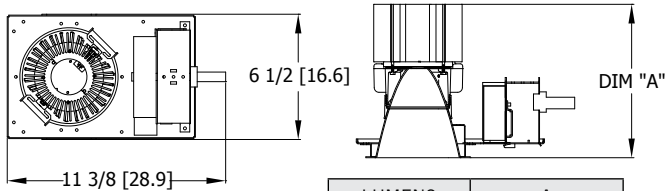
Aperture: 4-5/16 [11]

Ceiling Opening: 5-1/8 [13] self-flanged

Overlap Trim: 5-7/16 [13.8]

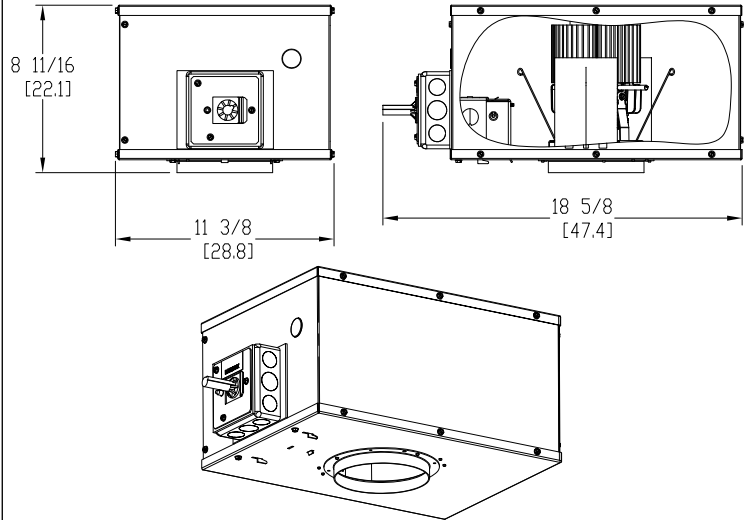
4-5/8 [11.7] flangeless

**Standard**

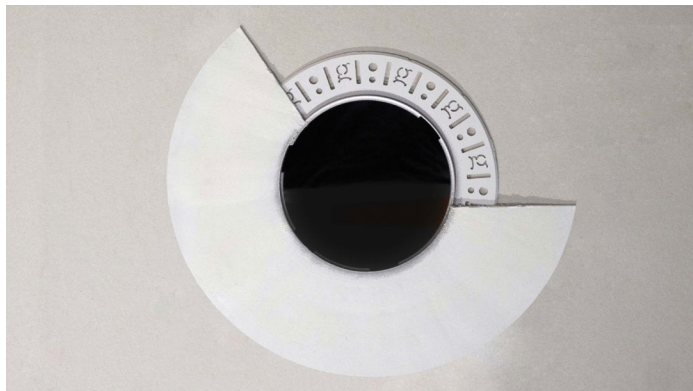


LUMENS	A
Up to 1000	6 [15.2]
Up to 2000	7 [17.8]
Above 2000	8 [20.3]

**Chicago Plenum**



Partially finished mud ring, showing cross-section detail.



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

**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 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.

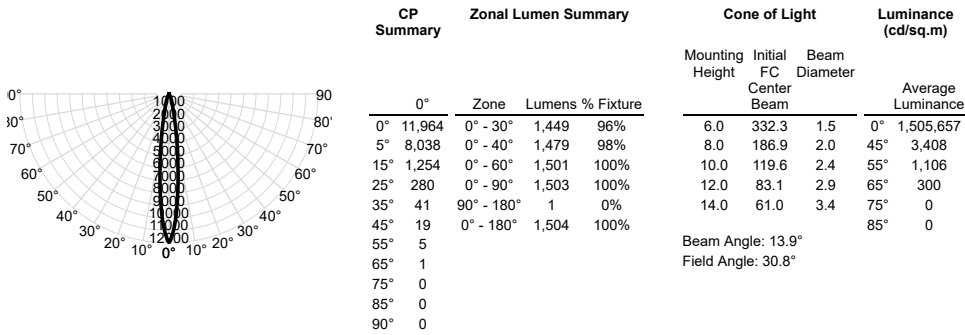


ICO with flangeless trim

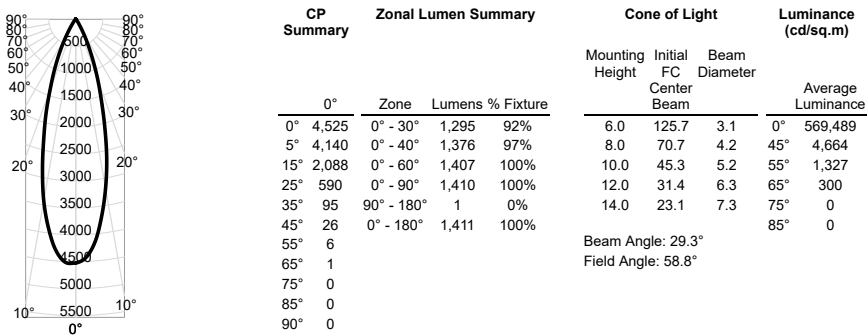
Photometry

**CONSULT WWW.GOTHAMLIGHTING.COM FOR ADDITIONAL PHOTOMETRY**

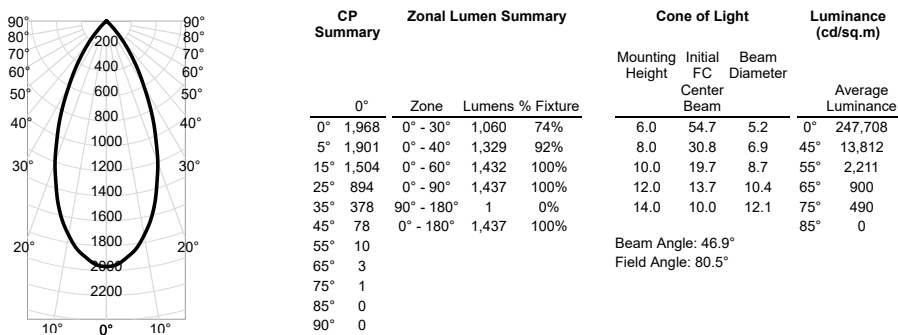
**ICO4 35/15 AR LSS 15D** Input Watts: 15.1, Delivered Lumens: 1504, LPW: 99.6, S/MH: 0.24, Test No: ISF 192654P563



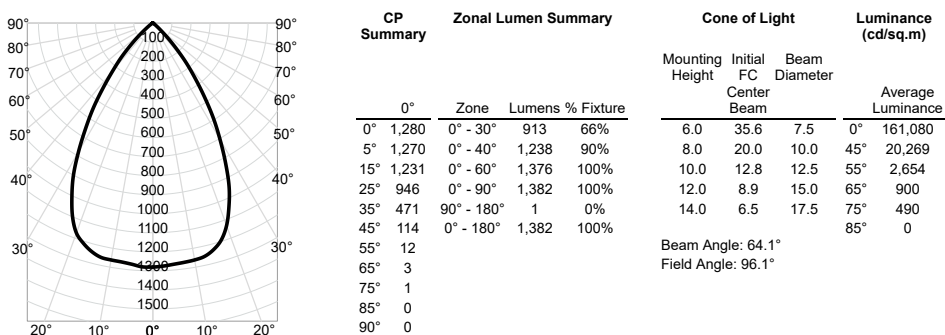
**ICO4 35/15 AR LSS 30D** Input Watts: 15.1, Delivered Lumens: 1411, LPW: 93.4, S/MH: 0.47, Test No: ISF 192657P563



**ICO4 35/15 AR LSS 45D** Input Watts: 15.1, Delivered Lumens: 1437, LPW: 95.2, S/MH: 0.73, Test No: ISF 192660P563



**ICO4 35/15 AR LSS 65D** Input Watts: 15.1, Delivered Lumens: 1382, LPW: 91.5, S/MH: 0.98, Test No: ISF 192663P563



nLIGHT AIR

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® 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	Model Number
Dimming	nCM ADCX

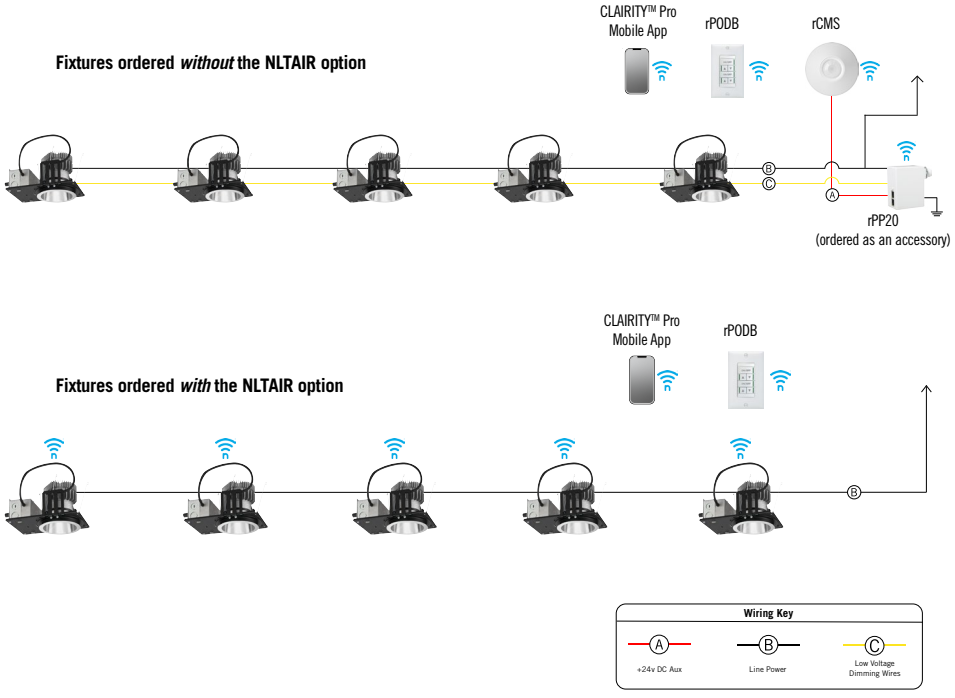
**nLight® Wired Control Accessories (cont.)**

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

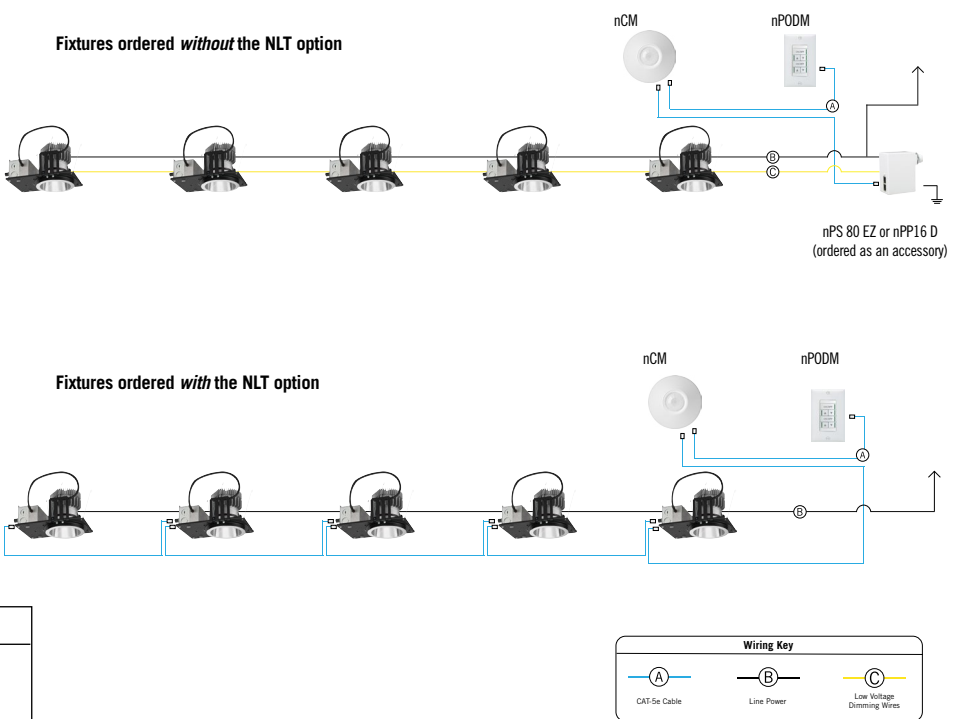
  

Cat-5 Cables (plenum rated)	Model Number
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

**Possibilities for nLight® AIR**



**Possibilities for nLight® wired**



nLIGHT