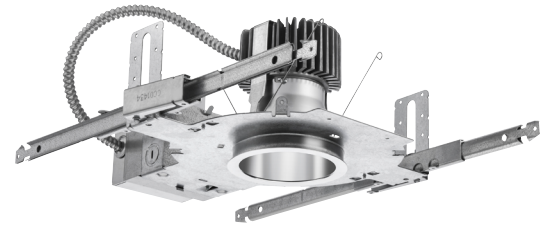


OVERVIEW

## General Illumination Round Downlight With nTune

4"



### Feature Set

- Tunable White solution that reproduces natural light patterns and colors, complements materials, and supports productivity.
- Rhythm Range (2700K-6500K) follows the cycle of daylight
- Productivity Range (3000K-5000K) to re-energize and inspire, ideal for collaboration
- WARMDIM® Range (3000K-1800K) for relaxing; warm and comfortable when dimmed
- Bounding Ray™ Optical Principle design provides 45° cut-off to source and source image
- Rated 65,000 hours (L80) at 25°C ambient temperature
- Dim to Dark 100% - 0.1%

### Distribution



### Superior Performance

Nominal lumens	750	1000	1500	2000	2500	3000
Delivered	840	1012	1406	1872	2416	2878
Wattage	9	10	14	19	24	29
Efficacy	92	97	100	101	100	98

\*80 CRI, 3500K

COMPLEMENTARY PRODUCTS

### Coordinated Apertures | Multiple Layers of Light



General Illumination Layer | EVO



High Center Beam Layer | Incito



EVO + Incito — Multiple Layers of Light

### Core




### Healthcare



### Special Applications



 A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

**EXAMPLE: EV04 TUWH PROR/07 AR MD LD MVOLT NLT**

Series	Dynamic Feature	Dynamic Range <sup>1</sup>	Nominal lumens values <sup>2</sup>	Reflector/Flange Color	Trim Style
<b>EV04</b> 4" Round Downlight	<b>TUWH</b> Tunable White	<b>PROR</b> Productivity Range (3000K-5000K)	<b>/07</b> 750 lumens	<b>AR</b> Clear	<b>WR<sup>3</sup></b> White painted
	<b>WDIM</b> Warm Dimming	<b>RHYR</b> Rhythm Range (2700K-6500K)	<b>/10</b> 1000 lumens	<b>PR</b> Pewter	<b>BR<sup>3</sup></b> Black painted
		<b>HALR</b> Halogen Range (3000K-1800K)	<b>/15</b> 1500 lumens	<b>WTR</b> Wheat	<b>WRAMF</b> White painted antimicrobial finish
			<b>/20</b> 2000 lumens	<b>GR</b> Gold	
		<b>/25</b> 2500 lumens			<b>FL</b> Flangeless
		<b>/30</b> 3000 lumens			<b>(blank)</b> Self-flanged

Distribution	Aperture Finish	Voltage	Control Interface Type	Options
<b>MD</b> Medium (0.8 s/mh)	<b>LSS</b> Semi-specular	<b>MVOLT</b> 120 120V 277 277V	<b>NLT<sup>4</sup></b> nLight nTune interface	<b>SF</b> Single fuse
<b>MWD</b> Medium wide (1.0 s/mh)	<b>LD</b> Matte-diffuse		<b>NLTER<sup>4</sup></b> nLight nTune interface with emergency circuit	<b>TRW<sup>5</sup></b> White painted flange
<b>WD</b> Wide (1.2 s/mh)	<b>LS</b> Specular		<b>ZT</b> 0-10V dimming. Requires 2 controllers (one for intensity & one for CCT).	<b>TRBL<sup>5</sup></b> Black painted flange
			<b>DALI</b> DALI logarithmic dimming to <1%.	<b>90CRI</b> High CRI (90+)
				<b>E10WCP<sup>7</sup></b> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch
				<b>E10WCP<sup>7</sup></b> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch
				<b>CP<sup>6</sup></b> Chicago Plenum
				<b>BGTD</b> Bodine Generator Transfer Device

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

<b>SCA4</b>	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to <a href="#">TECH-190</a> .
<b>CTA4-8 YK</b>	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds 1" to fixture height.
<b>FGS 7TSN XXX</b>	Fresco Lighting Control with DMX and ethernet; XXX = Color. Refer to <a href="#">FRESCO</a> spec sheet for additional options.
<b>nPODM 2P DX CCT XX</b>	nLight 2 Channels, On/off + raise/lower control, CCT, XX = Color. Refer to <a href="#">nLight</a> .
<b>nPODM 4S DX XX</b>	nLight 4 Scene Control, On/off + raise/lower control, XX = Color. Refer to <a href="#">nLight</a> .
<b>nPODM 4S XX</b>	nLight 4 Scene Control, XX = Color. Refer to <a href="#">nLight</a> .

**ORDERING NOTES**

- PROR and RHYR available only with TUWH. HALR available only with WDIM.
- Nominal lumen values when tested at 3500K.
- Not available with aperture finishes.
- TUWH + NLT/NLTER requires RGH mounting and power from nLight network bridge or nPS 80. WDIM + NLT/NLTER available factory installed with RGH; nLight field installed with other mounting types. Access required to location of remote mounted.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
- 11" of plenum depth or top access required for battery pack maintenance.
- Voltage-specific (120 or 277V). Not available with battery pack options.

**Optical 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 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

**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. 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.

**Controls**

Tunable white nTune™ is an all-digital light color temperature control within an nLight enabled luminaire. nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K. Refer to nLight Programming User’s Guide for instructions on customizing your application with SensorView™.

**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 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

**Construction**

Luminaire housing shall be constructed of 16-gauge galvanized steel and have preinstalled telescopic mounting bars with maximum 32” and minimum 15” extension and 4” vertical adjustment. Luminaires shall be suitable for installation in ceilings up to 1½” thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 5”). Tool-less adjustments shall be possible after installation. The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration. 25°C ambient temperature standard (1/2” clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

**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.

**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 20% over the minimum operational life of 60,000 hours.

**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. 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.

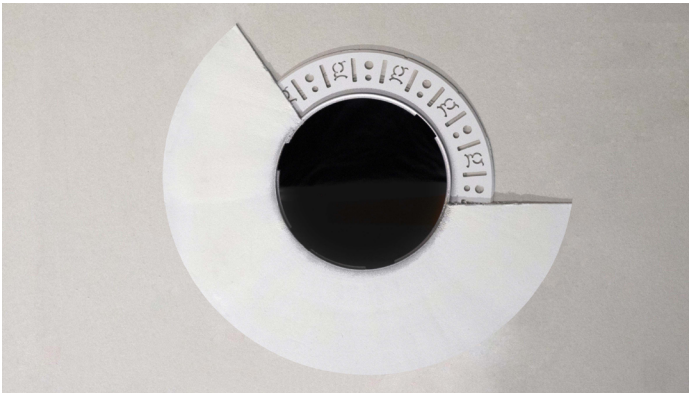
- All configurations of this luminaire meet the Acuity Brands’ specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight® 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



Partially finished mud ring, showing cross-section detail.



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



EVO 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.

Tables of Use

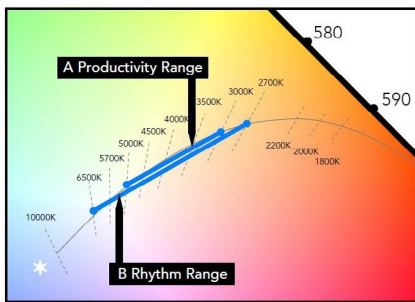
CCT/CRI Multiplier Table		
CRI	CCT	Multiplier
80	2700K	0.96
	3000K	0.97
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Lumen Output Multiplier - Finish Trim						
Finish	Clear (AR)	Pewter (PR)	Wheat (WTR)	Gold (GR)	White (WR/WRAMF)	Black (BR)
Specular (LS)	1.00	0.88	0.83	0.95	N/A	N/A
Semi-specular (LSS)	0.95	0.84	0.79	0.90	N/A	N/A
Matte-diffuse (LD)	0.85	0.73	0.69	0.80	N/A	N/A
Paint	N/A	N/A	N/A	N/A	0.87	0.73

Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
ZT	0.1%	Linear	Linear/Logarithmic
DALI	0.1%	Linear	Linear/Logarithmic

Distributions	
Distribution	Beam
MD	51
MWD	57
WD	73

**MAINSTREAM DYNAMIC TUNABLE WHITE WITH NTUNE TECHNOLOGY**

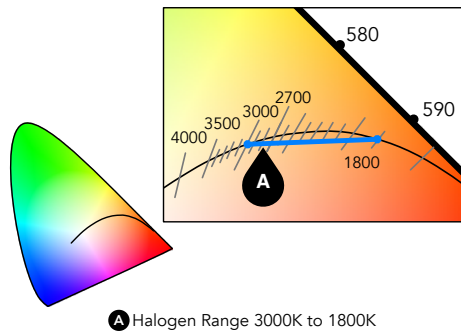


Tunable white nTune™ is an all digital light color temperature control within an nLight enabled luminaire. This brings tunable white lighting control into the mainstream with repeatable, consistent results in an economical luminaire form and system already familiar to schools. Designers and facility operators are granted the freedom to tie scenes to specific activities or to complement colors or materials within a visual environment. nTune™ allows color temperature settings through the Productivity Range of 3000K to 5000K or Rhythm Range of 2700K to 6500K. Refer to nLight Programming User's Guide for instructions on customizing to your application with SensorView™.

**TUNABLE WHITE GPHD**

**Gamut:** One dimensional warm-Cool  
**Path:** Direct 3000K to 5000K (Productivity Range) or 2700K to 6500K (Rhythm Range)  
**Handle:** Two Natural Language Handles: Intensity and CCT  
**Data:** nLight with nTune technology for both handles of control

- A** Productivity Range 3000K to 5000K
- B** Rhythm Range 2700K to 6500K



**A** Halogen Range 3000K to 1800K

**How to Estimate Delivered Lumens in Emergency Mode**

**Delivered Lumens = 1.25 x P x LPW**

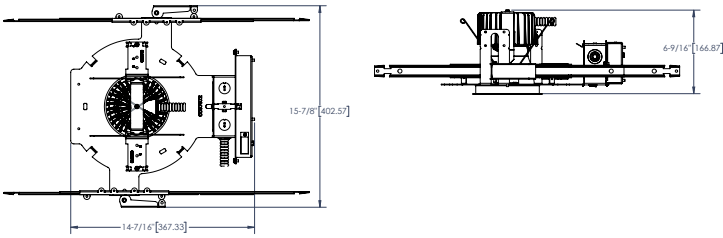
P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

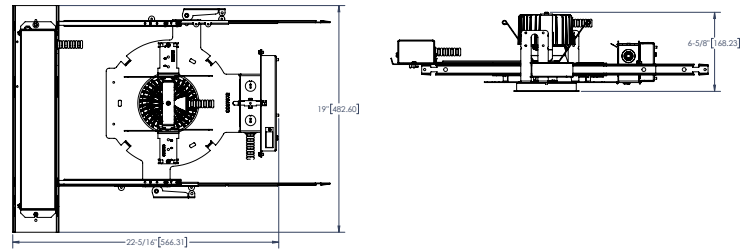
DIMENSIONAL DATA

Aperture: 4-5/16" (11)      Ceiling Opening: 5-1/8" (13) self-flanged  
 Overlap trim: 5-7/16" (13.8)      5-1/4" (13.3) flangeless

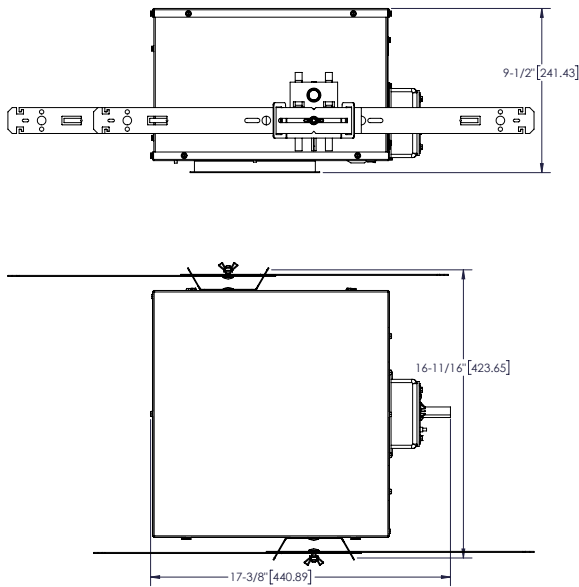
**Standard**



**Battery Pack**



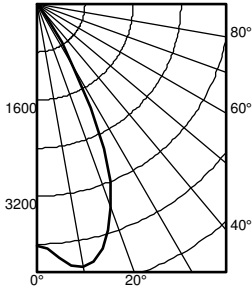
**CP Standard**



Photometry

**EV04 TUWH RHYR /30 4AR LS CRI80 2700K**

INPUT WATTS: 29.3, DELIVERED LUMENS: 3105, LM/W=105.9 , 0.80 S/MH, TEST NO. 19-032-01P61

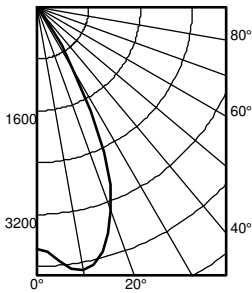


Ave Lumens	Zone Lumens % Lamp	pf pc pw	80%			20% 70%			50%			
			50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	4032	0° - 30° 2721.8 87.7	0	119	119	119	116	116	116	111	111	111
5	4248	0° - 40° 3039.0 97.9	1	112	109	107	109	107	106	105	104	102
15	4209	0° - 60° 3101.5 99.9	2	105	101	98	103	100	97	100	97	95
25	2659	0° - 90° 3105.0 100.0	3	99	94	91	97	93	90	95	91	89
35	429	90° - 180° 0.0 0.0	4	93	88	85	92	88	84	90	86	83
45	81	0° - 180° 3105.0 *100.0	5	88	83	79	87	83	79	86	82	78
55	5	*Efficiency	6	84	78	75	83	78	74	82	77	74
65	2		7	80	74	70	79	74	70	78	73	70
75	1		8	76	70	67	75	70	67	74	70	66
85	0		9	72	67	63	72	67	63	71	66	63
90	0		10	69	64	60	68	63	60	68	63	60

Initial FC		50% beam - 49.7°		10% beam - 66.1°	
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	133.3	5.1	66.6	7.2	13.3
10.0	71.7	6.9	35.8	9.8	7.2
12.0	44.7	8.8	22.3	12.4	4.5
14.0	30.5	10.6	15.2	15.0	3.0
16.0	22.1	12.5	11.1	17.6	2.2

**EV04 TUWH RHYR /30 4AR LS CRI80 3500K**

INPUT WATTS: 29.3, DELIVERED LUMENS: 2880, LM/W=98.3 , 0.80S S/MH, TEST NO. 19-032-01P63

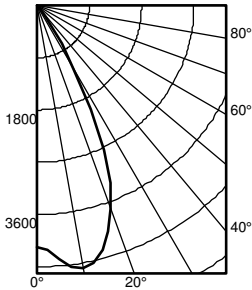


Ave Lumens	Zone Lumens % Lamp	pf pc pw	80%			20% 70%			50%			
			50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	3740	0° - 30° 2524.6 87.7	0	119	119	119	116	116	116	111	111	111
5	3941	0° - 40° 2818.8 97.9	1	112	109	107	109	107	106	105	104	102
15	3904	0° - 60° 2876.8 99.9	2	105	101	98	103	100	97	100	97	95
25	2466	0° - 90° 2880.1 100.0	3	99	94	91	97	93	90	95	91	89
35	398	90° - 180° 0.0 0.0	4	93	88	85	92	88	84	90	86	83
45	75	0° - 180° 2880.1 *100.0	5	88	83	79	87	83	79	86	82	78
55	5	*Efficiency	6	84	78	75	83	78	74	82	77	74
65	2		7	80	74	70	79	74	70	78	73	70
75	1		8	76	70	67	75	70	67	74	70	66
85	0		9	72	67	63	72	67	63	71	66	63
90	0		10	69	64	60	68	63	60	68	63	60

Initial FC		50% beam - 49.7°		10% beam - 66.1°	
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	123.6	5.1	61.8	7.2	12.4
10.0	66.5	6.9	33.2	9.8	6.6
12.0	41.4	8.8	20.7	12.4	4.1
14.0	28.3	10.6	14.1	15.0	2.8
16.0	20.5	12.5	10.3	17.6	2.1

**EV04 TUWH RHYR /30 4AR LS CRI80 6500K**

INPUT WATTS: 29.3, DELIVERED LUMENS: 3208, LM/W=109.5 , 0.80 S/MH, TEST NO. 19-032-01P61



Ave Lumens	Zone Lumens % Lamp	pf pc pw	80%			20% 70%			50%			
			50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	4166	0° - 30° 2812.2 87.7	0	119	119	119	116	116	116	111	111	111
5	4389	0° - 40° 3139.9 97.9	1	112	109	107	109	107	106	105	104	102
15	4349	0° - 60° 3204.4 99.9	2	105	101	98	103	100	97	100	97	95
25	2747	0° - 90° 3208.1 100.0	3	99	94	91	97	93	90	95	91	89
35	443	90° - 180° 0.0 0.0	4	93	88	85	92	88	84	90	86	83
45	84	0° - 180° 3208.1 *100.0	5	88	83	79	87	83	79	86	82	78
55	5	*Efficiency	6	84	78	75	83	78	74	82	77	74
65	2		7	80	74	70	79	74	70	78	73	70
75	1		8	76	70	67	75	70	67	74	70	66
85	0		9	72	67	63	72	67	63	71	66	63
90	0		10	69	64	60	68	63	60	68	63	60

Initial FC		50% beam - 49.7°		10% beam - 66.1°	
Mounting Height	Center Beam	Diameter	FC	Diameter	FC
8.0	137.7	5.1	68.9	7.2	13.8
10.0	74.1	6.9	37.0	9.8	7.4
12.0	46.2	8.8	23.1	12.4	4.6
14.0	31.5	10.6	15.8	15.0	3.1
16.0	22.9	12.5	11.4	17.6	2.3

**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](http://nLight.com).

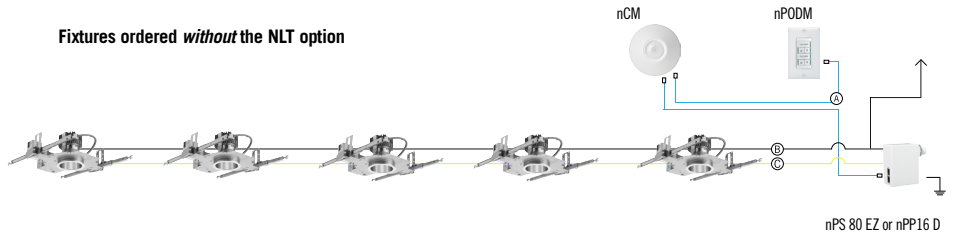
Wall Switches	Model Number
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)
Photocell Controls	
Dimming	nCM ADCX

**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® wired**

Fixtures ordered *without* the NLT option



Fixtures ordered *with* the NLT option

