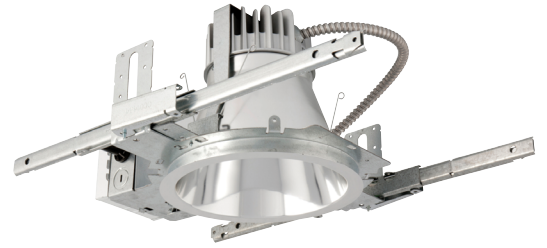


# General Illumination Round Downlight

# 8"



OVERVIEW

## Feature Set

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- 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
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces

## Distribution



## Superior Performance

Nominal Lumens	2000	2500	3000
Delivered Lumens	2,287	2,964	3,398
Wattage	31.6	41.1	47.1
Efficacy	72.5	72	72.2

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



ORDERING INFORMATION

A+ Capable options indicated by this color background.

Luminaire Type:   
 Catalog Number:

EXAMPLE: EV08 35/30 AR MWD LSS 277 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Distribution	Finish	Voltage
EV08	27/ 2700 K	20 2000 lumens	AR Clear	(blank) Self-flanged	VND Very Narrow (0.5 s/mh)	LSS Semi-specular	120
	30/ 3000 K	25 2500 lumens	PR Pewter		LD Matte-diffuse	277	
	35/ 3500 K	30 3000 lumens	WTR Wheat		ND Narrow (0.7 s/mh)	LS Specular	347 <sup>2,3</sup>
	40/ 4000 K		GR Gold		MD Medium (0.9 s/mh)		
			WR <sup>1</sup> White	MWD Medium wide (1.0 s/mh)			
			BR <sup>1</sup> Black	WD Wide (1.2 s/mh)			
			WRAMF <sup>1</sup> White Anti-microbial				

Driver <sup>4</sup>	Control Interface	Options
GZ10 0-10V driver dims to 10%	NLT <sup>6</sup> nLight <sup>®</sup> dimming pack controls	SF Single fuse. Specify 120V or 277V.
GZ1 0-10V driver dims to 1%	NLTER <sup>2,6,10</sup> nLight <sup>®</sup> dimming pack controls emergency circuit	TRW <sup>7</sup> White painted flange
EZ10 eldoLED 0-10V EC0drive. Linear dimming to 10% min.	NLTAIR <sup>2,13</sup> nLight <sup>®</sup> Air enabled	TRBL <sup>8</sup> Black painted flange
EZ1 eldoLED 0-10V EC0drive. Linear dimming to 1% min.	NLTAIRER <sup>2,10,13</sup> nLight <sup>®</sup> AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	EL Emergency battery pack, 10W, with integral test switch
EZB eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	EXA1 XPoint Wireless, eldoLED 0-10V EC0drive. Linear dimming to 1%. Refer to XPoint tech sheet.	ELR Emergency battery pack, 10W, with remote test switch
EDAB <sup>5</sup> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	EXAB XPoint Wireless, eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%. Refer to XPoint tech sheet.	ELSD Emergency battery pack, 10W, with self-diagnostics, integral test switch
EDXB <sup>5</sup> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Includes termination resistor.		ELRSD Emergency battery pack, 10W, with self-diagnostics, remote test switch
ECOD <sup>5</sup> Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Maximum 2500 lumens.		E10WCP Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch
		E10WCPR Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch
		N80 <sup>11</sup> nLight <sup>®</sup> Lumen Compensation
		BGTD Bodine generator transfer device. Specify 120V or 277V.
		90CRI High CRI (90+)
		CP <sup>12</sup> Chicago Plenum. Specify 120V or 277V.
		RRL RELOC <sup>®</sup> -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)**

SCA4	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA8 10D. Refer to <a href="#">TECH-190</a> .
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). Adds ~4" to fixture height.
GVRT	Vandal-resistant trim accessory. Refer to <a href="#">TECH-200</a> .
ISD BC	0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .

**ORDERING NOTES**

- Not available with finishes.
- Not available with GZ10, GZ1, EL or ELR options.
- Supplied with factory installed step down transformer.
- Refer to [TECH-240](#) for compatible dimmers.
- Not available with nLight<sup>®</sup> and XPoint options.
- Must specify voltage 120V or 277V.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with WR (white reflector).
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not available with BR (black reflector).
- For dimensional changes, refer to [TECH-140](#). Not available with 347V.
- For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
- Fixture begins at 80% light level. Must be specified with eldoLED drivers and NLT or NLTER.
- Not available with ELR, EXA1 or EXAB.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.

**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**

Luminaire shall be equipped with interface for nLight wired or wireless network 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 – 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**

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 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 a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

**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.

- 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

EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Square	Linear

Lumen Output Multiplier		
CRI	CCT	Multiplier
80	2700K	0.96
	3000K	1.00
	3500K	1.00
	4000K	1.01
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87

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

Distributions		
Nomenclature	Beam Angle	Field Angle
VND	30	64
ND	44	69
MD	54	82
MWD	67	89
WD	71	92

Nomenclature	Driver Description	Control Provided (note: 347V/UVOLT versions provided with 347 option selected)			
		NLT	NLTER	NLTAIR2	NLTAIRER2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V 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 ER G2
EZ10	eldoLED 0-10V ECOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V 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 ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2

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

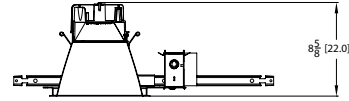
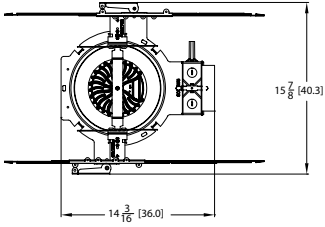
**Delivered Lumens = 1.25 x P x LPW**

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.

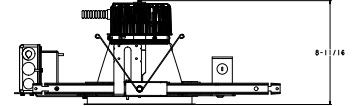
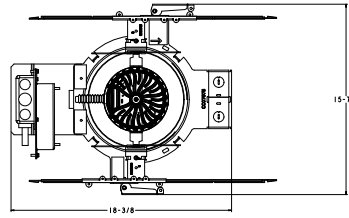
Aperture: 8-5/8 (21.9)  
 Ceiling Opening: 8-3/4 (22.2)  
 Overlap Trim: 9-1/4 (23.5)

**2,000-3,000LM Standard**



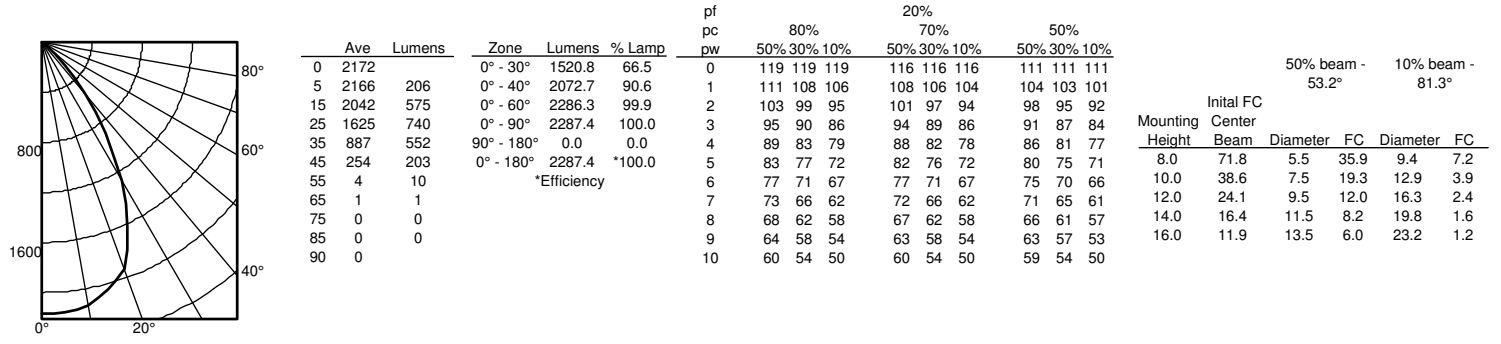
Aperture: 8-5/8 (21.9)  
 Ceiling Opening: 8-3/4 (22.2)  
 Overlap Trim: 9-1/4 (23.5)

**2,000-3,000LM Drive Open Frame CP**

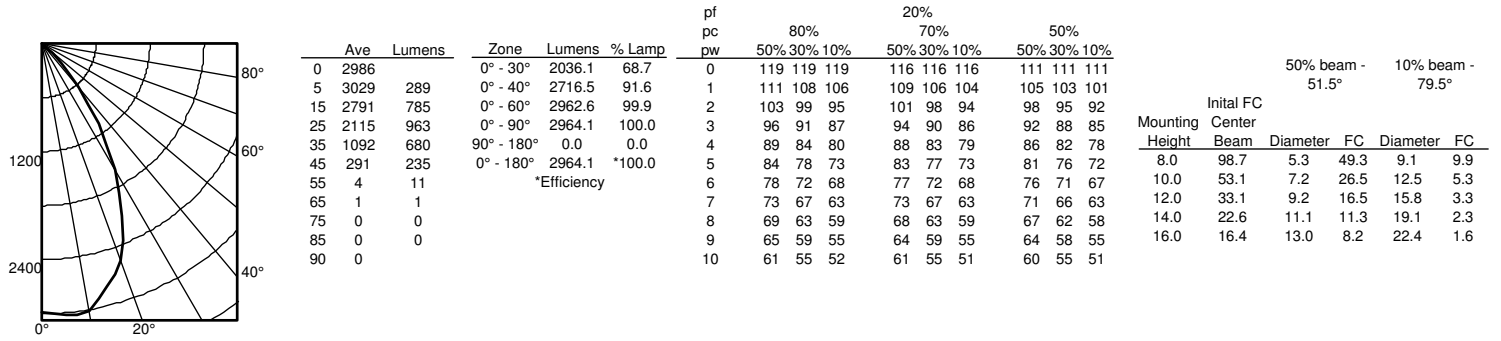


Photometry

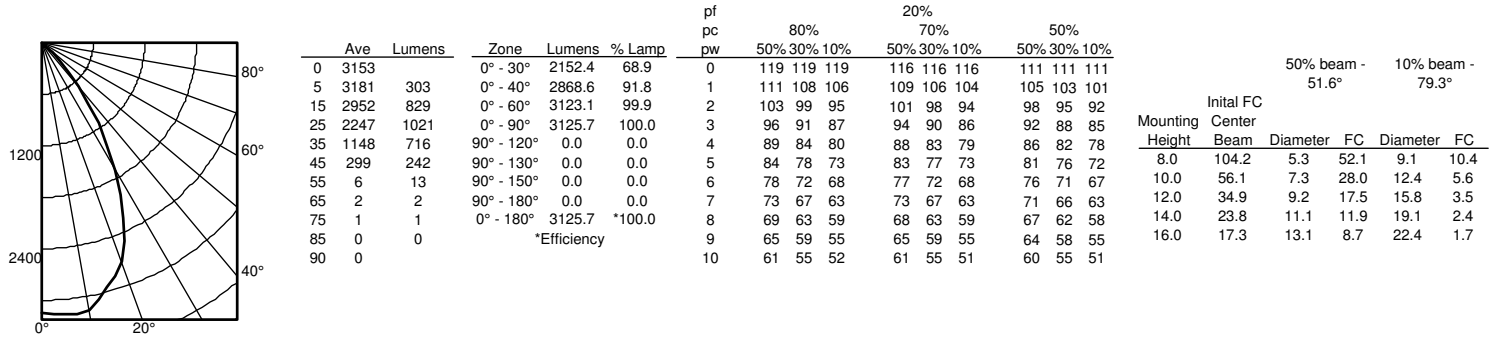
**EV08 30/20 AR MWD LS INPUT WATTS: 31.5, DELIVERED LUMENS: 2287.4, LPW= 72.6, 1 S/MH, TEST NO. LTL27655P301**



**EV08 30/25 AR MWD LS INPUT WATTS: 41, DELIVERED LUMENS: 2964, LPW = 72.3, 0.98S/MH, TEST NO. LTL27654P200**



**EV08 30/30 AR MWD LS INPUT WATTS: 42.3, DELIVERED LUMENS: 3125.8, LPW=73.8, 0.99 S/MH, TEST NO. 27848P202**



**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](#).

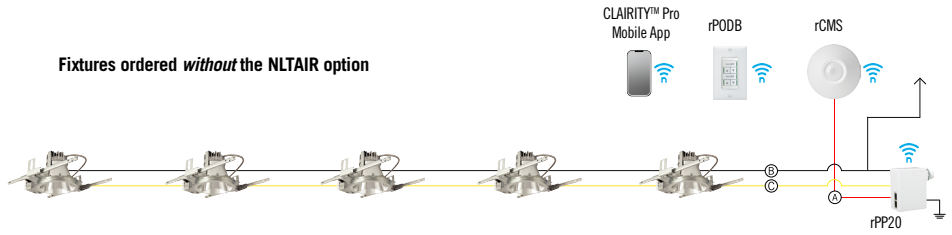
Wall Switches	Model Number
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

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

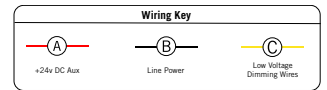
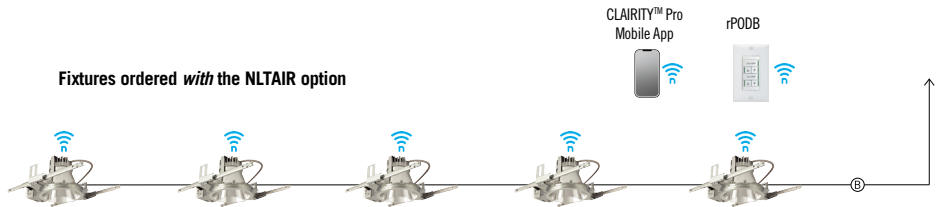
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**Possibilities for nLight® AIR**

**Fixtures ordered without the NLTAIR option**



**Fixtures ordered with the NLTAIR option**



**nLight®** 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**

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

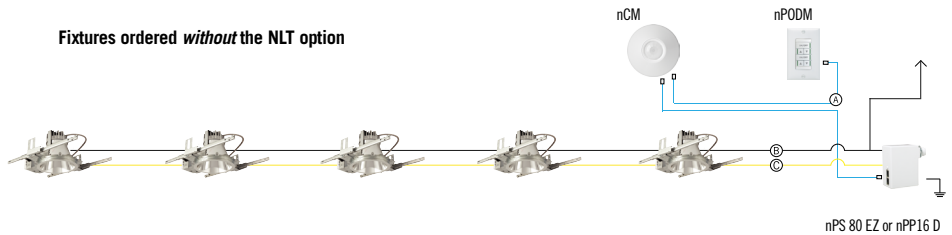
Occupancy Sensors (PIR/dual tech)	Model Number
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

**Cat-5 Cables (plenum rated)**

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

**Possibilities for nLight® wired**

**Fixtures ordered without the NLT option**



**Fixtures ordered with the NLT option**

