

# Nelo+ 75L

OPEN APERTURE SURFACE DIRECT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

- Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 1500 lumens max. See performance data table on page 4 for additional information
- 80 & 90 CRI (30, 35, 40K); Warm Dim (30–22K), Tunable White (27–65K & 27–50K)



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- 4" x 4" nominal profile with 2.8" aperture.
- Extruded aluminum housing with machined aluminum end headers
- Die-cast aluminum end caps mechanically attached with no exposed fasteners. Open (ECO) and solid (ECC) designs available.
- Patent pending ConJoin™ row mounting system

### OPTICS

- 3 SDCM CCT consistency, 80 or 90 CRI. Tunable White and Dim to Warm options available.
- 98% High reflectance laminated reflector for soft, continuous illumination. UV stable, UL 94 V rated.
- Additional reflector seam cover blends appearance for unbroken illumination in row mount configurations.

### ELECTRICAL

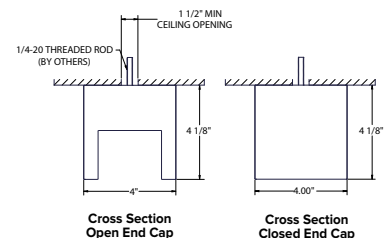
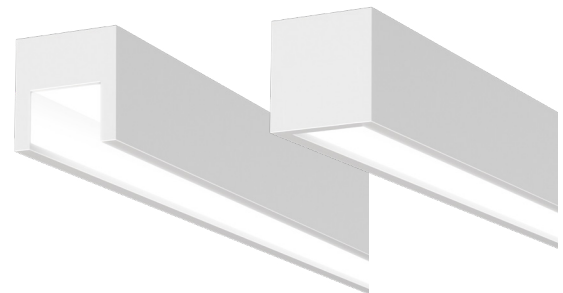
- Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification.
- LED boards and solid state constant current driver are field-serviceable from below through housing aperture.
- 1C (1 Circuit) Fixture wired for a single circuit
- Emergency Battery: 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4'+ fixtures, LH/RH options available for 8' fixtures.

### CONTROLS

- Sensors install at end of individual fixtures. For rows or additional information, contact factory.
- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- SpectraSync™ Color Tuning Technology: Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants

### CERTIFICATIONS

- CSA listed for damp locations
- UL924
- IC Rated
- CCEA
- IBEW
- AF of L
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See [Buy America\(n\) Solutions](#).
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.



	Weight
75L-S-D	5 lbs/ft

### WARRANTY

- LED boards - 5 years
- LED drivers (standard) - 5 years
- LED drivers (Lutron) - 3 years

KEY DATA	
Lumen Range	300–1500
SDCM	3
Rated Life	L85 > 50,000 Hours
Efficacy	108–120 LPW

DATE:

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ORDERING GUIDE

Example: 75L-S-D-8-08-C1-35K-D100-D01-1C-UNV-ECO

CATALOG #

Series	Mounting	Distribution	Row Length (In Feet)	Max Length in Row	Finish/Color <sup>1</sup>
75L Nelo+	S Surface	D Direct	—' Enter in foot increments	02 2', 609mm	C1 Matte White (Default)
				03 3', 914mm	C2 Textured Matte White
				04 4', 1219mm	C3 Light Silver
				05 5', 1524mm	C4 Machined Aluminum
				06 6', 1829mm	C5 Carbon Black
				08 8', 2438mm	C6 Textured Camera Black
					CC Custom Color
CCT/CRI <sup>2</sup>	Direct Output/ft	Driver	Circuiting	Voltage	End Cap
30K 3000K, 80CRI	D030 300 (Min) to D150 1500 (Max)	D01 1% Dimming, 0–10V	1C 1 Circuit	UNV 120–277V	ECO Open Style
30K9 3000K, 90CRI		D05 5% Dimming, 0–10V <sup>3</sup>		347 347V <sup>4</sup>	ECC Closed Style
35K 3500K, 80CRI		LEC Hi-Lume 1% EcoSystem			
35K9 3500K, 90CRI		NDM Non-Dimming			
40K 4000K, 80CRI					
40K9 4000K, 90CRI					
2230TD 2200K–3000K SpectraSync™ Dim-to-Warm					
2750T 2700K–5000K SpectraSync™ Tunable White					
2765T 2700K–6500K SpectraSync™ Tunable White					

Nightlight <sup>5</sup>	Emergency <sup>6</sup>	Thru-Wiring	Control Options <sup>4</sup>
NL Nightlight Circuit Required. Enter quantity.	EF 10W Emergency Battery Backup. Enter quantity. (CEC Title 20 Compliant)	W1 No Thru-Wire	<u>NX Networked – Wired</u>
		W2 Provide Normal and NL/EF Thru-Wiring	NXE NX Wired Dual RJ45 SmartPORTS, without Sensor <sup>7,8</sup>
		W3 Provide Normal Thru-Wiring Only	NXERM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming <sup>7,8</sup>
			<u>NX Networked – Wireless</u>
			NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor <sup>7,8</sup>
			NXWRM NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming <sup>7,8</sup>
			<u>Sensors</u>
			BTSL Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens <sup>7</sup>

Notes:

1

Visit [currentlighting.com/litecontrol](http://currentlighting.com/litecontrol) for details.

2

SpectraSync must be ordered with D05 driver option

3

Must be ordered with SpectraSync options

4

Additional lead time may be applicable. Contact factory.

5

2NL = 2 nightlight circuits/row. Available in 4+ fixtures.

6

2EF = 2 Emergency batteries/row. See Details for restrictions. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4+ fixtures; 8' available LH/RH.

7






Not available for row mounting. Only available with 0–10V Driver options. Contact factory for Length restrictions.

8

Refer to NX Integrated Controls Reference Table for Functionality of Options.

## CONTROLS OPTIONS AND FUNCTIONALITY



Control Option Ordering Logic & Description			Control Option Functionality										Control Option Components	
			Sensor	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth® App Programming	Sensor Height		
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	Requires NXBTC dongle <sup>1</sup>	–		NXDSP
	NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓		Max: 12'	 	NXSMP2-LMI NXDSP
NX Wireless	NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓		Max: 12'		NXSMP2-LMI
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H

<sup>1</sup> NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network

## CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

## APP INFORMATION

### NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

### NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.



Apple iOS

## CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

### SPECTRASYN™ COLOR TUNING TECHNOLOGY:

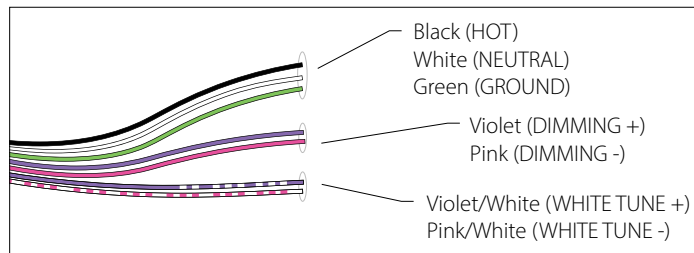
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYN Color tuning technology		
Mode	Kelvin Range	Description
Dim to Warm	2200K–3000K	Mimics the familiar warning effect that occurs with traditional incandescent sources as they are dimmed
Tunable White	2700K–5000K 2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space
Scheduled White	2700K–5000K 2700K–6500K	Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being

### SPECTRASYN TUNABLE WHITE

Available in two options: 2750T (2700K–5000K) or 2765T (2700K–6500K). Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

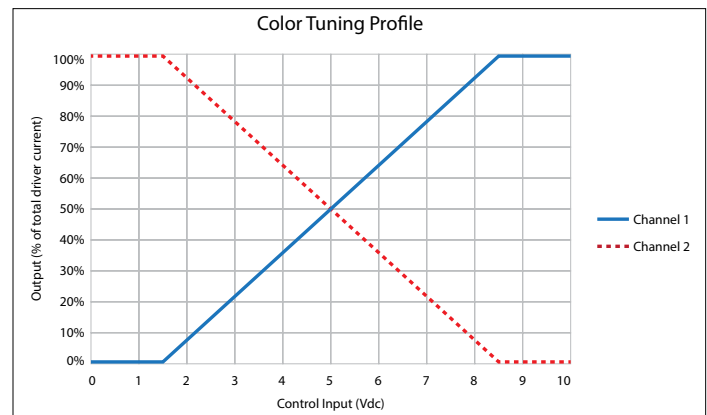


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

### CONTROLLER MANUFACTURER DATA

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- Current: NX Lighting Controls Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to SpectraSync technical sheet.

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## PERFORMANCE DATA TABLE

The table below shows the delivered lumens for the various lumen outputs. Use this chart in connection with the output multiplier capability to deliver any output required.

Nomenclature	Lumens/Ft	W/Ft	Efficacy
D030 (min)	300	2.8	108
D035	350	3.2	110
D040	400	3.5	115
D045	450	3.9	116
D050	500	4.2	118
D055	550	4.7	117
D060	600	5.1	118
D065	650	5.5	118
D070	700	5.8	120
D075	750	6.3	118
D080	800	6.7	119
D085	850	7.2	117
D090	900	7.8	116
D095	950	8.3	115
D100	1000	8.7	115
D105	1050	9.1	116
D110	1100	9.6	115
D115	1150	10.1	114
D120	1200	10.5	114
D125	1250	11.0	114
D130	1300	11.5	113
D135	1350	12.0	112
D140	1400	12.5	112
D145	1450	13.0	112
D150 (max)	1500	13.6	111

## OUTPUT RESTRICTIONS

Options listed below are not available for the output and length as shown.

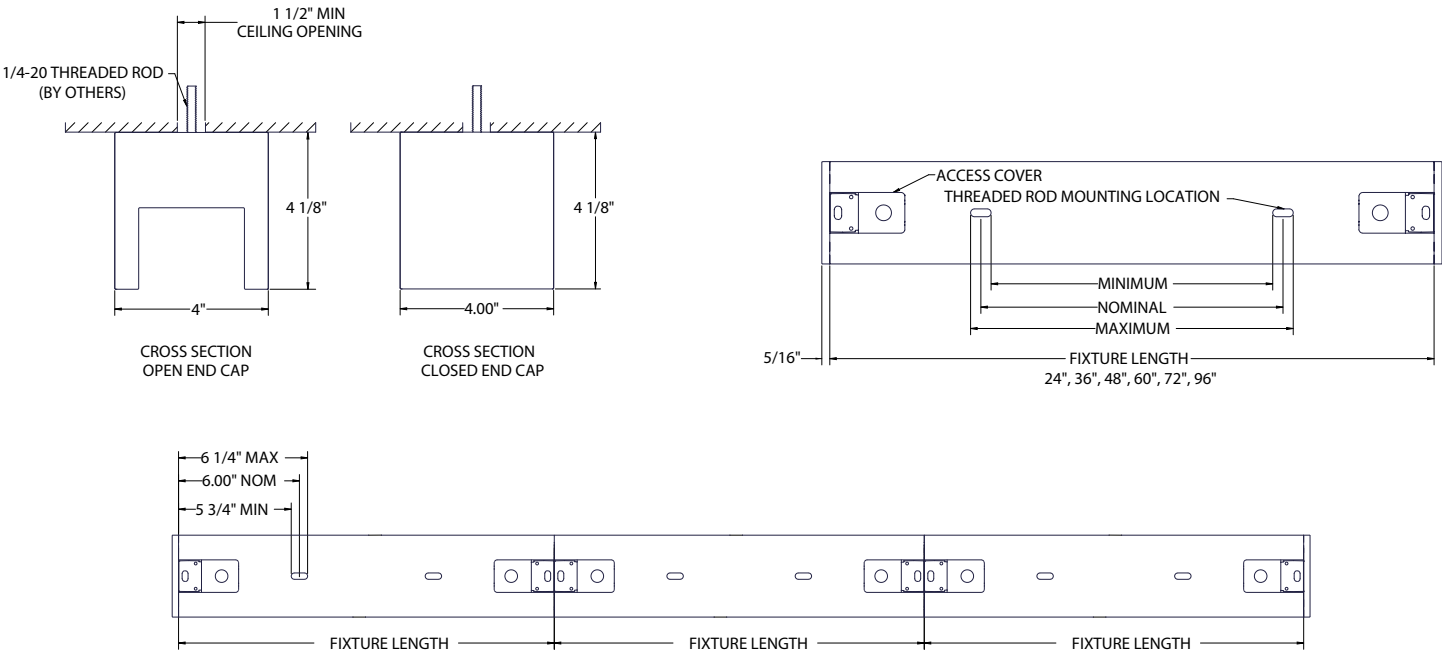
LENGTH	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
<b>75L (Direct)</b>																									
2'	EF/NL not available																								
3'																									
4'																									
5'																									
6'																									
8'																									

## OUTPUT MULTIPLIER TABLE

Photometry for the 75L is published at 3500K color temperature, 80 CRI. This table may be used to approximate lumen values at other color temperatures and color rendering. Power consumption would stay the same.

CCT	80 CRI	90 CRI
3000K	0.98	0.85
3500K	1	0.88
4000K	1.03	0.9

DIMENSIONS



THREADED ROD DISTANCE	
MINIMUM	FIXTURE LENGTH MINUS 12 1/2"
NOMINAL	FIXTURE LENGTH MINUS 12"
MAXIMUM	FIXTURE LENGTH MINUS 11 1/2"

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## PHOTOMETRY

### 75L-X-D-4-CX-35K-D150-ECC

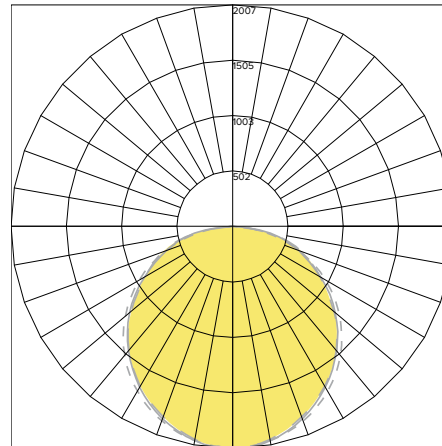
#### LUMINAIRE DATA

Test No.	Scaled From P21.01221
Description	75L Nelo Closed End Cap Direct
Delivered Lumens	6000
Watts	54
Efficacy	111

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	2540.89	42.3
0-60	4551.27	75.9
0-90	6000	100
0-180	6000	100

#### POLAR GRAPH



LEGEND:  
0-deg: - - - - -  
45-deg: — — — — —  
90-deg: — — — — —

## ADDITIONAL INFORMATION

#### DIMMING OPTIONS

<b>D01</b>	100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
<b>D05</b>	100%–5% dimming range. Fixture will be wired for low voltage 0–10V dimming control. Only applicable if either 2230TD, 2750T or 2765T is selected.
<b>LEC</b>	Hi-Lume 1% EcoSystem LED Driver with Soft-On, Fade-to-Black dimming technology.
<b>NDM</b>	Non-dimming. Fixture will be wired for fixed light output.

#### Rated Life

Tested in accordance to LM79-2008 & derived from EPA TM-21 calculator

L70: >54,000 (calculated per TM-21 extrapolated curve)

L70: 110000 (reported per TM-21/LM80 6x's limitation)

L85: >50000 (calculated per TM-21 extrapolated curve)

L85: 50500 (reported per TM-21/LM80 6x's limitation)

#### Rated Life (Driver)

Standard = 100,000 hours

Lutron = 50,000 hours

#### 75L-S-D WITH CLOSED END CAP AND NXWRM WIRELESS CONTROL OPTION

