LITECONTROL
making light work™

Nelo+ 75L
OPEN APERTURE WALL INDIRECT/DIRECT

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)

VI   **BAA**   **TAA**

CONTROL TECHNOLOGY

NX CONNECT   NX WIRED   NX WIRELESS   SpectraSync Color Tuning 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.
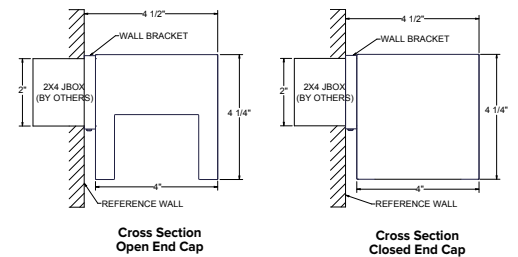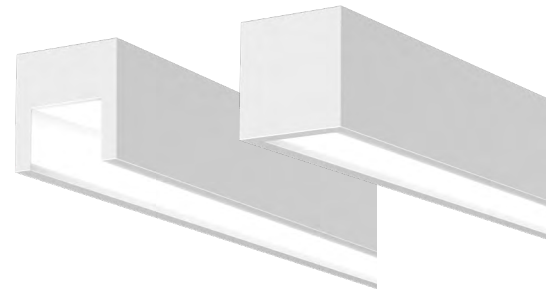
ELECTRICAL
- Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification.

- LED boards and solid state constant current driver are field-serviceable from below through housing aperture.

- 2C (2 Circuit uplight/downlight) Uplight and downlight switched/dimmed separately. Two power feeds required.

- 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.

Cross Section Drawings

Cross Section Open End Cap
4 1/2" — WALL BRACKET — 2" — 2X4 JBOX (BY OTHERS) — 4 1/4" — 4" — REFERENCE WALL

Cross Section Closed End Cap
4 1/2" — WALL BRACKET — 2" — 2X4 JBOX (BY OTHERS) — 4 1/4" — 4" — REFERENCE WALL

	Weight
75L-W-ID	5 lbs/ft

WARRANTY
- LED boards - 5 years

- LED drivers (standard) - 5 years

- LED drivers (Lutron) - 3 years

KEY DATA

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

Current

LITECONTROL
making light work™

Nelo+ 75L
OPEN APERTURE WALL INDIRECT/DIRECT

ORDERING GUIDE

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

CATALOG #

Series	Mounting	Distribution	Uplight Distribution	Row Length (In Feet)	Max Length in Row	Finish/Color [1]
75L Nelo+	**W** Wall	**ID** Indirect/Direct	**STD** Standard	___' Enter in foot increments	**02** 2', 609mm	**C1** Matte White (Default)
			LPA Low Peak Angle		**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 [2]		Indirect Output/ft		Direct Output/ft		Driver		Circuiting		Voltage		End Cap
30K	3000K, 80CRI	**D030**	300 (Min)	**D030**	300 (Min)	**D01**	1% Dimming, 0–10V	**1C**	1 Circuit	**UNV**	120–277V	**ECO** O
30K9	3000K, 90CRI		to		to	**D05**	5% Dimming, 0–10V [3]	**2C**	2 Circuit Uplight/Downlight	**347**	347V [4]	**ECC** Cl
35K	3500K, 80CR0	**D150**	1000 (Max)	**D150**	1500 (Max)	**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 [5]		Emergency [6]		Thru-Wiring	
NL	Nightlight Circuit Required. Enter quantity.	**EF**	10W Emergency Battery Backup. Enter quantity. (CEC Title 20 Compliant)	**W1**	No Thru-Wire
				W2	Provide Normal and NL/EF Thru-Wiring
				W3	Provide Normal Thru-Wiring Only

Control Options [4]

NX Networked – Wired

NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor [7,8]
NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming [7,8]

NX Networked – Wireless

NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor [7,8]
NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming [7,8]

Sensors

BTSL	Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens [7]

Notes:
1. Visit 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.

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

Nelo+ 75L
OPEN APERTURE WALL INDIRECT/DIRECT

CONTROLS OPTIONS AND FUNCTIONALITY

NX LIGHTING CONTROLS™

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 [1]	–		NXDSP
NX Wired	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
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H

1   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.
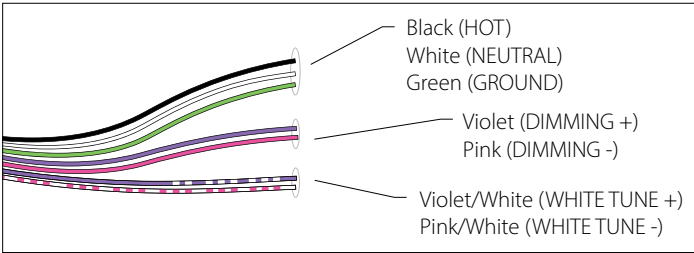
Apple iOS

Nelo+ 75L
OPEN APERTURE WALL INDIRECT/DIRECT

CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

SPECTRASYNC™ 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.
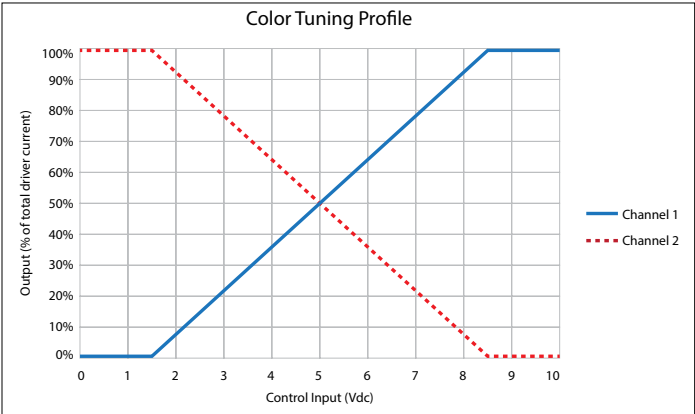
SpectraSync
Color Tuning Technology

SPECTRASYNC 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

SPECTRASYNC 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.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Pink (DIMMING -)

Violet/White (WHITE TUNE +)
Pink/White (WHITE TUNE -)

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: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile

Output (% of total driver current) vs Control Input (Vdc)

— Channel 1
- - - Channel 2

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

LC_NELO+75L-W-ID_spec_R04

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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
Uplight (STD Distribution)			
I030 (min)	300	2.4	123
I035	350	2.7	131
I040	400	3.0	134
I045	450	3.2	141
I050	500	3.5	143
I055	550	3.8	146
I060	600	4.1	148
I065	650	4.4	147
I070	700	4.8	146
I075	750	5.1	146
I080	800	5.4	148
I085	850	5.8	148
I090	900	6.2	146
I095	950	6.6	145
I100 (max)	1000	6.8	146
Uplight (LPA Distribution)			
I030 (min)	300	2.7	112
I035	350	3.0	117
I040	400	3.4	118
I045	450	3.7	122
I050	500	4.0	126
I055	550	4.4	124
I060	600	4.8	125
I065	650	5.1	127
I070	700	5.6	126
I075	750	5.9	126
I080	800	6.4	124
I085	850	6.8	124
I090	900	7.2	124
I095	950	7.8	122
I100 (max)	1000	8.4	119
Downlight			
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

Current ◉

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
75L (Direct)																									
2'	EF/NL not available																								
3'																									
4'																									
5'																									
6'																									
8'																									
75L (Indirect)																									
2'	LEC/347V + NX not available																								
3'																									
4'																									
5'																									
6'																									
8'																									

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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
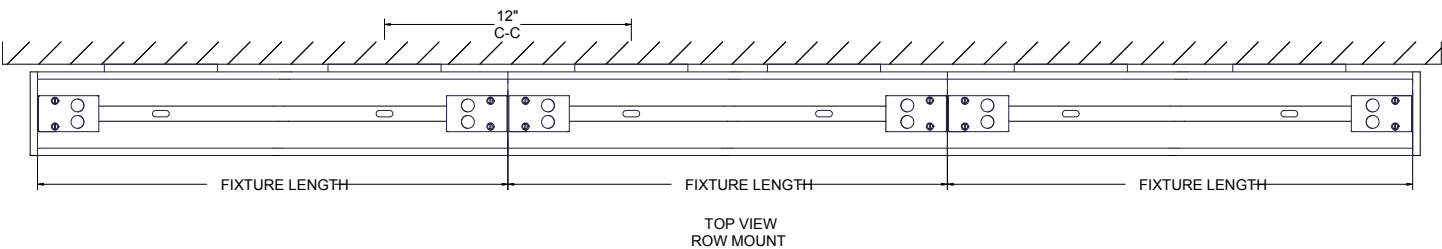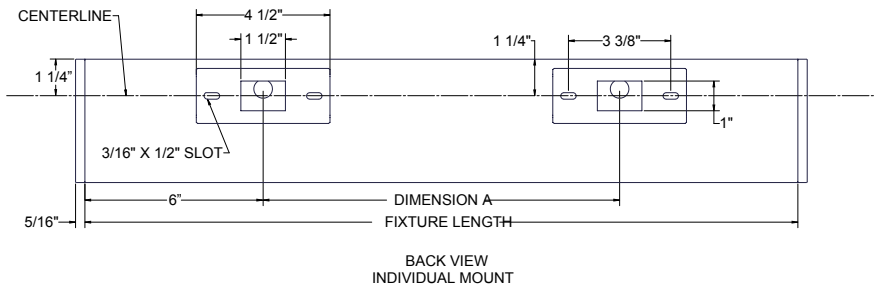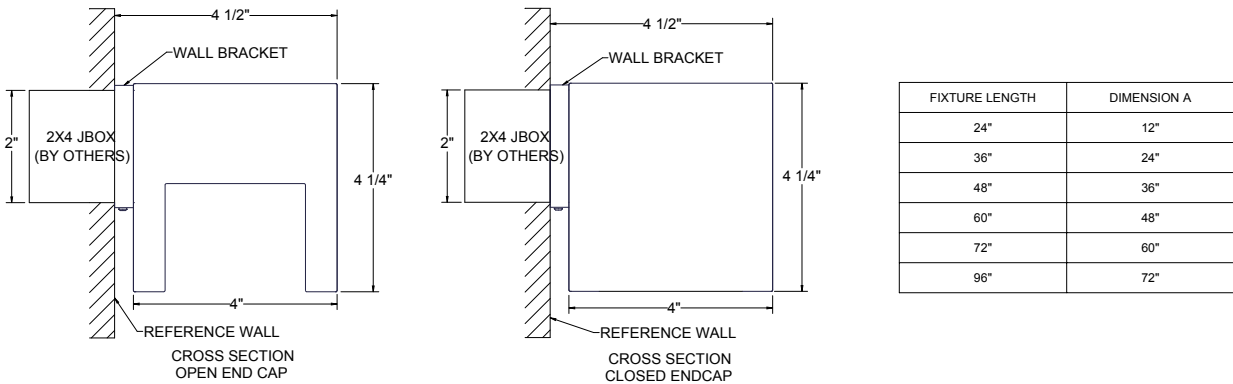
4 1/2"
WALL BRACKET
2"
2X4 JBOX (BY OTHERS)
4 1/4"
4"
REFERENCE WALL
CROSS SECTION
OPEN END CAP

4 1/2"
WALL BRACKET
2"
2X4 JBOX (BY OTHERS)
4 1/4"
4"
REFERENCE WALL
CROSS SECTION
CLOSED ENDCAP

FIXTURE LENGTH	DIMENSION A
24"	12"
36"	24"
48"	36"
60"	48"
72"	60"
96"	72"

CENTERLINE
4 1/2"
1 1/2"
1 1/4" 3 3/8"
1 1/4"
3/16" X 1/2" SLOT
1"
6" DIMENSION A
5/16" FIXTURE LENGTH

BACK VIEW
INDIVIDUAL MOUNT

12"
C-C

FIXTURE LENGTH FIXTURE LENGTH FIXTURE LENGTH

TOP VIEW
ROW MOUNT

currentlighting.com/litecontrol

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

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PHOTOMETRY

75L-X-ID-STD-4-CX-35K-I100-D150-ECC

LUMINAIRE DATA

Test No.	**Scaled From P21.01332**
Description	**75L Nelo Closed End Cap Indirect/Direct STD**
Delivered Lumens	**10000**
Watts	**82**
Efficacy	**122**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	2545.42	25.5
0–60	4554.71	45.5
0–90	6000.00	60
0–180	10000	100

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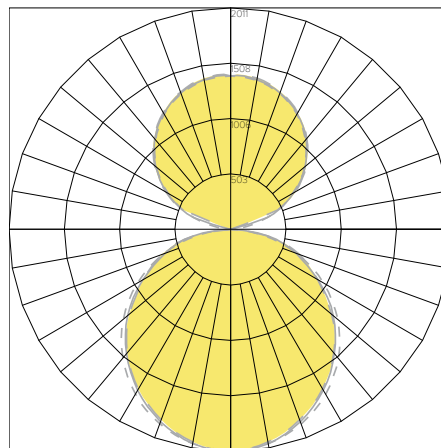
LEGEND:
0-deg: — — — — —
45-deg: ————
90-deg: — — — —

ADDITIONAL INFORMATION

DIMMING OPTIONS

D01	100%- 1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
D05	100%-5% dimming range, Fixture will be wired for low voltage0–10V dimming control. Only applicable if either 2230TD, 2750T or 2765T is selected.
LEC	Hi-Lume 1% EcoSystem LED Driver with Soft-On, Fade-to-Black dimming technology.
NDM	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-W-ID WITH CLOSED END CAP AND NXWRM WIRELESS CONTROL OPTION