

OPEN APERTURE SEMI-RECESSED DIRECT

DATE:	LOCATION:
TYPE:	PROJECT:

FEATURES

- Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 1200 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

- 2.5" x 3" nominal profile with 1.8" 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
- Remote driver enclosure constructed from die-formed steel.

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: 6W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4'+' fixtures

INSTALLATION

 PT Mounting: Continuous spackle trim with beaded edge fastened to housing. Spackle trim allows plaster coat up to fixture edge for clean ceiling appearance

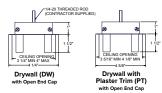
CATALOG #:

- LG/NG/SS Mounting: Side rails provide continuous mounting, lateral spacing between T-bars and allows clearance for T-bar supporting wire. For Tegular grid mount, fixture will sit level with the T-bar
- DW Mounting: Side rails allow installation into drywall slot. Visible flange is located on all 4 sides of fixture
- Remote enclosure not rated for contact with insulation. Insulation must be no closer than 3" from remote driver enclosure

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





	Weight
70L-SR-D	2 lbs/ft

CERTIFICATIONS

- · CSA listed for damp locations
- UL924
- 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 <u>Buy America(n)</u> Solutions.
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.

WARRANTY

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

KEY DATA				
Lumen Range	300–1200			
SDCM	3			
Rated Life	L85 > 50,000 Hours			
Efficacy	108-120 LPW			





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ORDERING GUIDE

Example: 70L-SR/DW-D-8-08-C1-35K-D030-D01-1C-UNV-ECO-ED

CATALOG #

Series	Ceiling Type Distribu		Row Length (In Feet)	Max Length in Row	Finish	Finish/Color ¹		
70L Nelo	SR/DW Semi-Recessed, Drywall SR/PT Semi-Recessed, Flangeless SR/LG Semi-Recessed, 15/16" Grid SR/NG Semi-Recessed, 1/6" Grid	D Direct	' Enter in foot increments	02 2', 609mm 03 3', 914mm 04 4', 1219mm 05 5', 1524mm	C1 C2 C3 C4	Matte White (Default) Textured Matte White Light Silver Machined Aluminum		
	SR/SS Semi-Recessed, %6" Screw Slot or Tegular			06 6', 1829mm 08 8', 2438mm	C5 C6 CC	Carbon Black Textured Camera Black Custom Color		

CCT/CRI	2	Direct (Output/ft	Driver		Circu	iting	Voltag	je	End C	ар
30K	3000K, 80 CRI	D030	300 (Min)	D01	1% Dimming, 0-10V	1C	1 Circuit	UNV	120-277V	ECO	Open Style
30K9	3000K, 90 CRI		to	D05	5% Dimming, 0-10V ³			347	347V 4	ECC	Closed Style
35K	3500K, 80 CRI	D120	1200 (Max)	LEC	Hi-Lume 1% EcoSystem						
35K9	3500K, 90 CRI			NDM	Non-Dimming						
40K	4000K, 80 CRI										
40K9	4000K, 90 CRI										
2230TD	2200K-3000K SpectraSync™ Dim-to-Warm										
2750T	2700K–5000K SpectraSync™ Tunable White										
2765T	2700K–6500K SpectraSync™ Tunable White										

Enclosure Mounting Nig		Nigl	Nightlight ⁵		Emergency ⁶		_	ı-Wiring	_	
	Drywall & Other Grid	NL	Nightlight Circuit Required. Enter quantity.		EF	6W Emergency Battery Backup. Enter quantity. (CEC Title 20 Compliant)		W2	No Thru-Wire. Provide Normal and NL/EF Thru-Wiring Provide Normal Thru-Wiring Only	

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

Control Options⁴

NX Networked - Wired

NXE NX Wired Dual RJ45 SmartPORTS, without Sensor ^{7,8}

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

<u>Sensors</u>

BTSL Bluetooth® Programmable, BTSMP-LMI PIR Occupancy Sensor with

Automatic Dimming Photocell and 360° Lens 7





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CONTROLS OPTIONS AND FUNCTIONALITY



		Control Option Ordering		Control Option Functionality									Control Option	
		Logic & Description	Sensor	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth® App Programming	Sensor Height	Cor	nponents
	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	N/A	\checkmark	\checkmark	\checkmark	-	-	\checkmark	\checkmark	Requires NXBTC dongle	-		NXDSP
200	NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth* Programming	NXSMP2-LMI	√	√	√	✓	√	√	√	√	Max: 12'	8	NXSMP2-LMI NXDSP
4	NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	√	√	√	√	√	√	√	√	Max: 12'	3	NXSMP2-LMI
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	√	√	√	-	-	√	√	√	-	8	NXRM2-H

¹ NXBTC needs to be plugged into an available NX SmartPort $^{\mathtt{m}}$ 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



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CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

SPECTRASYNC™ COLOR TUNING TECHNOLOGY:

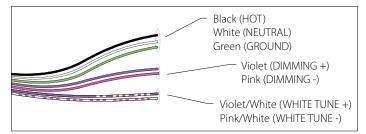
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNC Color tuning technology							
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		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		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.

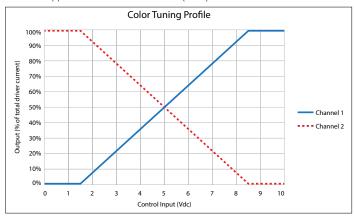


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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 (NXRCFX2) and In-fixture Controllers (NXFM2)
- Lutron: DVTV, 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 (max)	1200	10.5	114

OUTPUT RESTRICTIONS

Driver 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
70L (Direct)																		
All	347V D01, D05 Not Available												D	05 + N>	(, 347 D	O1		
	347 + I Not Avai											347	+ NX					

OUTPUT MULTIPLIER TABLE

Photometrics for the 70L are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

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





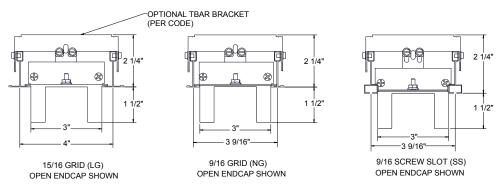
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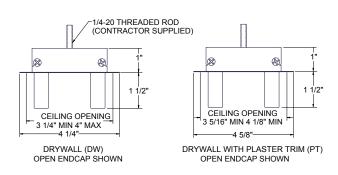
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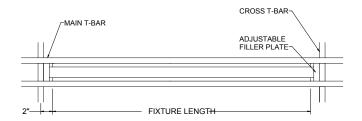
TYPE: PROJECT:

CATALOG #:

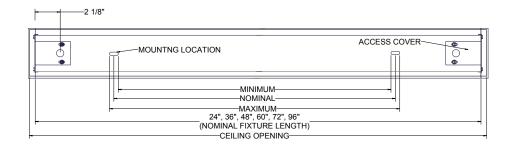
DIMENSIONS







FIXTURE	FIXTURE LENGTHS				
INDIVIDUAL (IND) / END OF ROW RIGHT (EORR)	20", 32", 44", 56", 68", 92"				
INTERMEDIATE (INT) / END OF ROW LEFT (EORL)	24", 36", 48", 60", 72", 96"				



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

CEILING CUTOUT LENGTH			
INDIVIDUAL NOMINAL FIXTURE LENGTH PLUS 5/8"			
ROW	TOTAL NOMINAL ROW LENGTH PLUS 5/8"		





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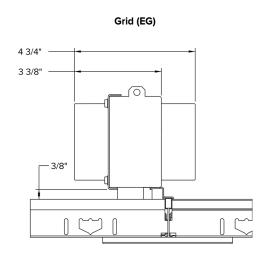
DIMENSIONS (CONTINUED)

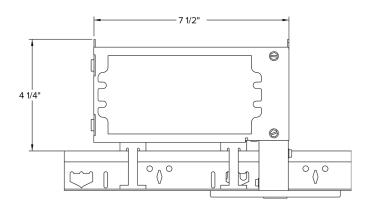
REMOTE ENCLOSURE

Drivers for this product must be remote-mounted in an accessible location. Remote driver enclosure not intended for contact with insulation (IC). Insulation must be minimum 3" from drivers and enclosure, in all directions. Driver enclosure is die formed galvanized steel rated for 25°C ambient. Driver enclosures are configured to Grid Mount (EG) or Drywall & Other (ED). When grid ceiling mount, enclosure attaches to the T-Bar with factory installed caddy clips. For drywall (or other) mount applications, driver enclosure configured with mounting holes to secure to blocking (by others).

Every fixture section will come with at minimum (1) driver enclosure, and at minimum (1) factory installed Class 2 feed cord. Plenum rated cable (by others) required between enclosure and feed cord. See tables below.

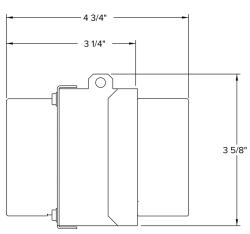
See installation instructions for additional information.

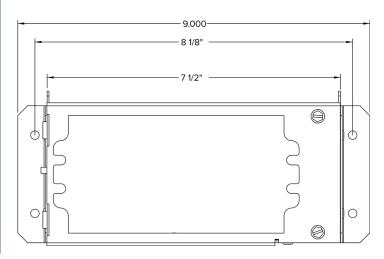




Max Mounting Distance*				
Wire Gauge	Distance (Ft.)			
18	33			
16	53			
14	84			
12	134			







Enclosure Size & Count				
2	Indirect/Direct with Emergency (EF)			
1	All other configurations			

^{*}Mounting distance shown is total between luminaire and remote enclosure.





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PHOTOMETRY

70L-X-D-4-CX-35K-D120-ECC

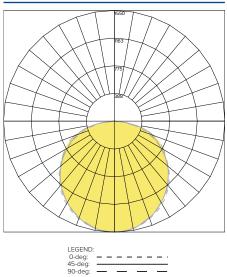
LUMINAIRE DATA

Test No.	Scaled from P21.01220
Description	70L Nelo Closed End Cap Direct
Delivered Lumens	4800
Watts	42W
Efficacy	114

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1981.83	41.3
0–60	3591.8	74.8
0-90	4800	100
0–180	4800	100

POLAR GRAPH



CATALOG #:

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

70L-SR-D WITH NXWRM WIRELESS CONTROL OPTION



