LITECONTROL
making light work™

6L-S-D
MOD™ 6 LED SURFACE DIRECT

MODx

FEATURES

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

- 2 SDCM color consistency

- End cap design eliminates visible diffuser seams/gaps

- TriGain® Technology provides superior color quality without compromising efficacy. The 6L-S-D series delivers 90 CRI at 128 LPW

VI · BAA · TAA · TriGain® technology

End View

4.5" (114m m)
6.25" (159mm)
6.43" (163mm)

	Weight
6L-S-D	3 lbs/ft

CONTROLS TECHNOLOGY

NX CONNECT · NX WIRED · NX WIRELESS · SpectraSync™ Color Tuning Technology

SERVICE PROGRAM

QS10

SPECIFICATIONS

CONSTRUCTION
- Housing constructed from extruded aluminum
- End caps constructed from die cast aluminum with magnetic interface
- End caps overlap diffuser at each fixture end to eliminate gaps and LED visibility

OPTICAL PERFORMANCE
- 2 SDCM color consistency, 90 CRI
- SOF: Soft diffuse acrylic lens
- BWO: White blade baffle with softglo lens overlay. Output multiplier (.70)
- ASYM: Asymmetric Highly transmissive diffuse acrylic lens with linear prisms
- BAT: "Batwing" distribution created from highly transmissive diffuse acrylic lens with linear prisms
- DRP: ½" protruding soft diffuse "drop" lens

INSTALLATION
- Illuminated corners available in 90°, 120°, 135°. One piece construction, ready to install, with diffusers that match adjoining fixtures. Corner system connectors must be used to form patterns. The length of each outside or inside illuminated corner is 12"

ELECTRICAL
- Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification. Indirect and direct hemispheres can be independently specified
- LED boards and drivers can be accessed and removed from fixture, while installed
- Entire LED module can be removed and replaced
- 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. Test switch located on side of housing
- Current's patented TriGain® phosphor delivers 90 CRI color quality at 80 CRI efficacy

CONTROLS
- Sensors install between diffusers
- 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
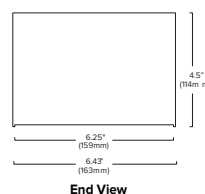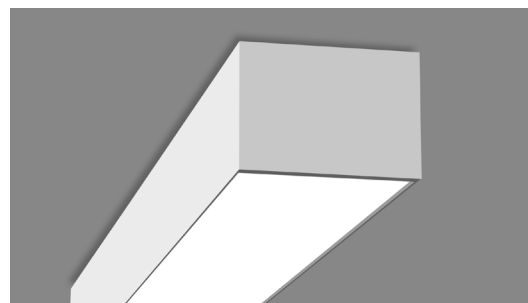
CERTIFICATIONS
- CSA listed for damp location
- IBEW
- AF of L
- UL924
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions.
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.

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

KEY DATA	
Lumen Range Per Foot	D: 300–1250
Wattage Range Per Foot	2.4–9.9
Efficacy Range (LPW)	123–128
Rated Life (Hours)	L90: >60,000

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Gray Highlighting = 10 Day Quick Ship Program **QS10**

ORDERING GUIDE

Example: 6L-S-D-8-08-SOF-C1-27K9-D030-D01-1C-UNV

CATALOG # _____

6L					
Series	**Mounting**	**Fixture Distribution**	**Row Length (In Feet)**	**Max Length in Row**	**Direct Optical Distribution**
6L MOD	S Surface	D Direct	__' Enter in foot increments	02 2', 609 mm	SOF Soft Diffuse Lens, Lambertian
				03 3', 914 mm	BWO Blade Baffle with Overlay [1]
				04 4', 1219 mm	BAT Batwing Lens
				05 5', 1524 mm	
				06 6', 1829 mm	
				08 8', 2438 mm	

Finish/Color [2]
C1 Matte White (Default)
C2 Textured Matte White
C3 Light Silver
C4 Machined Aluminum
C5 Carbon Black
C6 Textured Camera Black
CC Custom Color

Color Temperature		**Direct Output/ft [5]**		**Driver**		**Circuiting**		**Voltage**	
27K9	2700K, 90 CRI [3]	D030	300 (min) [6]	D01	1% Dimming, 0–10V	1C	1 Circuit	UNV	Universal Voltage (120V through 277V)
30K9	3000K, 90 CRI	to		D00	1% Dim-to-Off, 0–10V			347	347 Volt [3, 8]
35K9	3500K, 90 CRI	D125	1250 (max)	D05	SpectraSync 5% Dimming, 0–10V [7]				
40K9	4000K, 90 CRI			DS1	1% Dimming w/ Soft Start, 0–10V				
50K9	5000K, 90 CRI [3]			DS0	1% Dim-to-Off w/ Soft Start, 0–10V				
2230TD	2200K-3000K SpectraSync™ Dim-to-Warm [3, 4]			LEC	Hi-lume 1% Ecosystem LED Driver [3]				
2765T	2700K-6500K SpectraSync™ Tunable White [3, 4]			DALI	DALI [3]				
				DALIP	Powered by DALI (2.0) [3]				
				NDM	Non-Dimming				

OPTIONAL

Nightlight	**Emergency**	**Thru-wiring**	**Patterns [3, 11]**
NL Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	EF 10W Emergency Battery Pack. Enter quantity. 2EF = 2 emergency batteries/row. (CEC Title 20 Compliant) [9]	W1 No Thru Wire	C90L Illuminated 90° Corner
		W2 Provide Normal and Emergency/ Nightlight Thru Wiring [10]	C120L Illuminated 120° Corner
		W3 Provide Normal Thru Wiring Only	C135L Illuminated 135° Corner

Control Options [3]

NX Networked – Wired

NXE NX Wired Dual RJ45 SmartPORTS, without Sensor [12, 13]

NXERM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming [12, 13]

NX Networked – Wireless

NXWRM NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming [12, 13]

NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor [12, 13]

Sensors

SD1 Daylight Sensor Required. Enter quantity. 2SD1 = 2 daylight sensors/row

SO1 Occupancy Sensor Required. Enter quantity. 2SO1 = 2 occupancy sensors/row

Notes:
1. Not Available with Patterns.
2. Visit currentlighting.com/litecontrol for details.
3. Additional lead time may be applicable. Contact factory.
4. Must be ordered with D05 Driver option; excludes 2' lengths and patterns.
5. Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
6. D030 not available in 2'
7. Must be ordered with 2230TD or 2765T Option
8. Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEC) Dimming Drivers
9. EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
10. Only applicable when specified with Emergency/Nightlight.
11. Contact Factory for pattern configurations. Approval drawings required.

NX In-Fixture Control Options:
12. Not available for row mounting. Only available with 0–10V Driver options. Contact factory for Length restrictions.
13. Refer to NX Integrated Controls Reference Table for Functionality of Options.

Current

DATE:	LOCATION:
TYPE:	PROJECT:
	CATALOG #:

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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

6L-S-D WITH NXWRM WIRELESS CONTROL OPTION
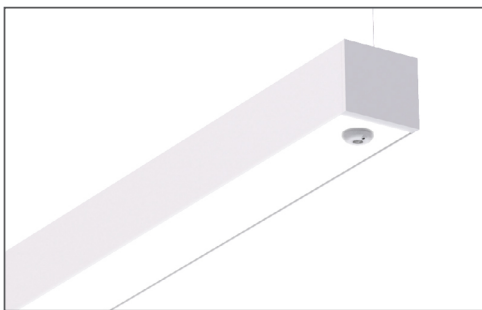
CONTROLS TECHNICAL SUPPORT

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

Current

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CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

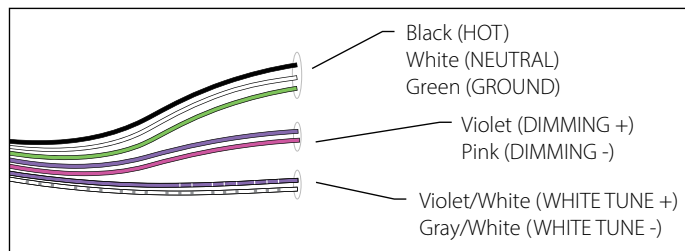### SpectraSync™ Color Tuning Technology:
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SpectraSync™
Color Tuning Technology

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Dim to Warm	2200K–3000K	Mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed
Tunable White	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–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: 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 +)
Gray/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 gray/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
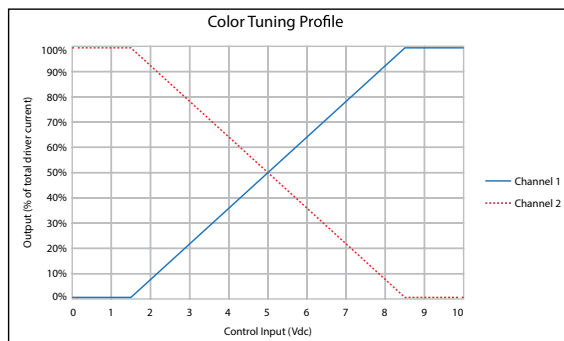
PERFORMANCE DATA TABLE

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.

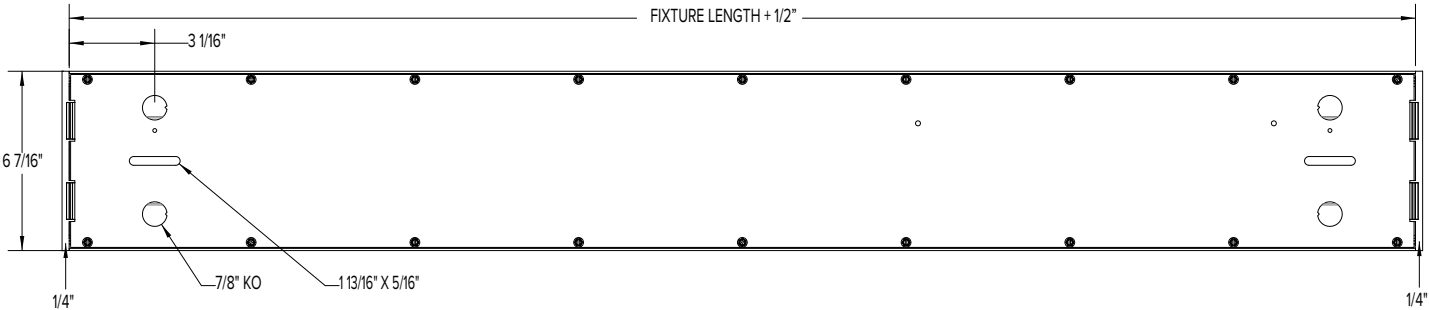| Nomenclature	Lumens/Ft	W/Ft	Efficacy
Downlight			
D030 (min)	300	2.4	123
D050	500	3.9	127
D075	750	5.8	128
D125 (max)	1250	9.9	126

(wattage may vary up to 5% from published)
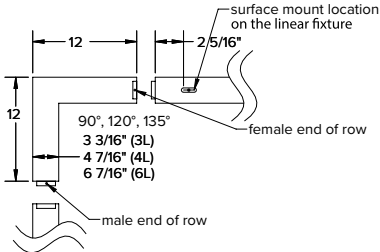
Output Multiplier Table
Photometrics for the MOD Family are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

Option	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
SOF	0.89	0.96	1.00	1.00	0.99
BWO	0.62	0.67	0.70	0.70	0.69
ASYM	0.89	0.96	1.00	1.00	0.99
BAT	0.89	0.96	1.00	1.00	0.99
DRP	0.89	0.96	1.00	1.00	0.99
LPAD	0.80	0.86	0.90	0.90	0.89

Current ▣

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DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

DIMENSIONS

FIXTURE LENGTH + 1/2"

3 1/16"

6 7/16"

1/4"

7/8" KO   1 13/16" X 5/16"

1/4"

INDIVIDUAL MOUNTING

surface mount location
on the linear fixture

12

2/5/16"

12

90°, 120°, 135°
3 3/16" (3L)
4 7/16" (4L)
6 7/16" (6L)

female end of row

male end of row

PATTERNS

4.5"
(114m m)

6.25"
(159mm)

6.43"
(163mm)

END CAP VIEW

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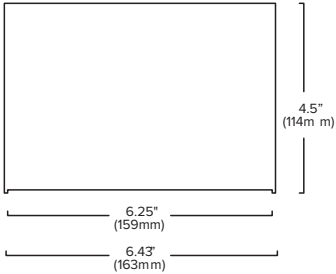
PHOTOMETRY

6L-P-D-4-SOF-CX-35K9-D075

LUMINAIRE DATA

Description	6L Recessed Linear Direct 3500K
Delivered Lumens	3000
Watts	23.4
Efficacy	128
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1396.34	46.50
0–60	2406.24	80.20
0–90	2999.81	100.0
0–180	2999.81	100.0

POLAR GRAPH

- – – – Vertical Plane Through Horizontal Angles (0° - 180°)
- ——— Vertical Plane Through Horizontal Angles (45° - 225°)
- — – — Vertical Plane Through Horizontal Angles (90° - 270°)

Current ⊙

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TM-30 DATA

COLOR VECTOR GRAPHIC

CCT: **3457 K**
D_{uv}: **-0.0005**

P2 V- F2

91 R_f

102 R_g

$R_{f,h1}$ **93**

$R_{cs,h1}$ **-4%**
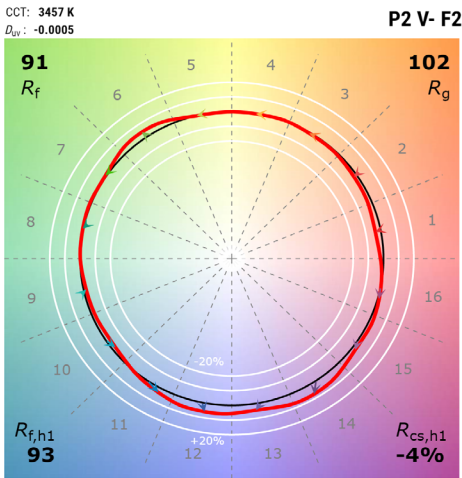
*Graphics shown are at 35K

—— Reference Illuminant   —— Test Source

Current

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ADDITIONAL INFORMATION

Driver

D01	100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
D00	Dim-to-Off 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 voltage 0-10V dimming control. Only applicable if either 2230TD, 2750T or 2765T is selected.
DS1	Soft-Start 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
DS0	Soft-Start Dim-to-Off 100%–1% dimming range. Fixture will be wired for low voltage 0–10V dimming control.
LEC	Hi-Lume 1% EcoSystem LED Driver with Soft-On, Fade-to-Black dimming technology.
DALI	DALI compatible.
DALIP	Self-Powered DALI bus (e.g. DEXAL)
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: 280,000 (calculated per TM-21 extrapolated curve)

L70: >61,000 (reported per TM-21/LM80 6x's limitation)

L90: 72,000 (calculated per TM-21 extrapolated curve)

L90: >61,000 (reported per TM-21/LM80 6x's limitation)

Rated Life (Driver)
Standard = 100,000 hours

Lutron = 50,000 hours

Current