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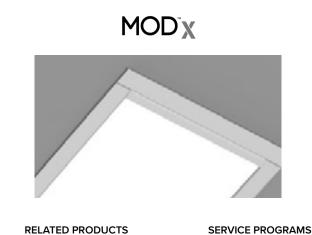
- Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 2 SDCM color consistency
- End cap design eliminates visible diffuser seams/gaps



# CONTROLS



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



8 <u>3L-R-D</u> 8 <u>4L-R-D</u>



# SPECIFICATIONS

#### CONSTRUCTION

- Housing contructed from die-formed and welded steel with wiring knockouts in top
- End caps constructed from die-formed steel. Installs from below via magnetic interface
- End caps overlap diffuser at each fixture end to elimate gaps and LED visibility

### OPTICAL PERFORMANCE

- 2 SDCM color consistency, 80 or 90 CRI
- SOF: Soft diffuse acrylic lens
- REG: 1/2" regressed softglo lens with painted steel inserts. Output multiplier (.77)
- BWO: White blade baffle with softglo lens overlay. Output multiplier (.70)
- BAT: "Batwing" distribution created created from highly transmissive diffuse acrylic lens with linear prisms

### INSTALLATION

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

### INSTALLATION (CONTINUED)

 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"

8 2L-R-D

• Fixture weight: 3lbs/ft

#### 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

### CONTROLS

- Sensors install between diffusers
- NX Distributed Intelligence<sup>™</sup>: Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enabled emerging applications, such as Hubbell Lighting's SpectraSync<sup>™</sup> Color Tuning Technology
- SpectraSync<sup>™</sup> Color Tuning Technology: Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants

### CERTIFICATIONS

- DLC<sup>®</sup> (DesignLights Consortium) Qualified see www.designlights.org
- CSA listed for damp location
- IBEW
- AF of L
- UL924
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction. Materials under Trade Agreements effective 8/14/2020. See <u>Buy American Solutions</u>. Contact factory for configurations including SpectraSync, NX, or sensors.

### WARRANTY

- LED boards 5 years
- LED drivers (standard) 5 years
- LED drivers (Lutron) 3 years
- See www.litecontrol.com for details

KEY DATA					
Lumen Range Per Foot	D: 300–1100				
Wattage Range Per Foot	2.6–10.0				
Efficacy Range (LPW)	110–118				
Rated Life (Hours)	L70: >61,000 L90: >61,000				

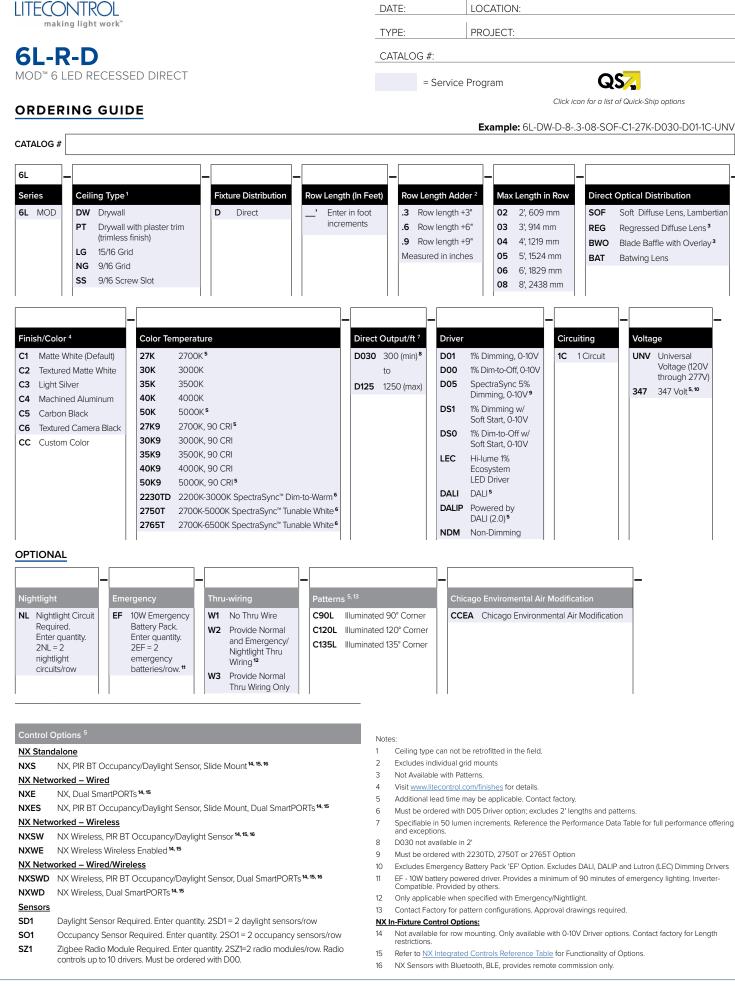




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PHOTOMETRY

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# CONTROLS

### NX Distributed Intelligence<sup>™</sup> Lighting Controls:

Supports both indoor and outdoor applications in a variety of deployment options- wired, wireless, hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.

	NX INTEGRATED CONTROLS REFERENCE								
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming	
NX Standalone	NX Standalone								
NXS	NXSMP-SMI	No	Yes	Yes	Yes	Yes	Yes	Yes	
NX Networked	NX Networked – Wired								
NXE	N/A	Yes	Yes	No	No	Yes	Yes	Requires <u>NXBTC/R</u> <sup>1</sup>	
NXES	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NX Networked	– Wireless								
NXSW	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NXWE <sup>2</sup>	N/A	Yes	Yes	No	No	Yes	Yes	No <sup>3</sup>	
NX Networked	NX Networked – Wired/Wireless								
NXSWD	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R <sup>1,3</sup>	

DATE:

TYPE:

CATALOG #:

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

2 Programming via App requires factory assistance

3 To program NXWE option, need to consult factory. If connected to an area controller, programming can be done from that

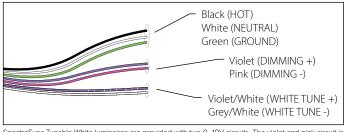
### SpectraSync<sup>™</sup> Color Tuning Technology:

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

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-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.



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 grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

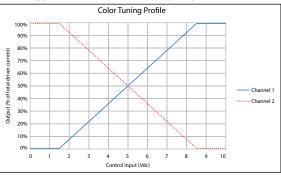
### Controller Manufacturer Data

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

- Hubbell Control Solutions (HCS): NX Distributed Intelligence<sup>™</sup> Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

LOCATION:

PROJECT:





SpectraSync



LITECONTROL	DATE:	LOCATION:
making light work"	TYPE:	PROJECT:
6L-R-D	CATALOG #:	
MOD™ 6 LED RECESSED DIRECT		

### 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
	Dowr	light	
D030 (min)	300	2.6	118
D035	350	3.0	118
D040	400	3.4	119
D045	450	3.8	119
D050	500	4.1	119
D055	550	4.6	119
D060	600	5.0	119
D065	650	5.5	119
D070	700	5.9	119
D075	750	6.4	119
D080	800	6.8	118
D085	850	7.2	118
D090	900	7.7	118
D095	950	8.1	117
D100	1000	8.6	117
D105	1050	9.0	117
D110	1100	9.5	116

(wattage may vary up to 5% from published)

#### **Output Restrictions**

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

Restrictions - Direct				Output LPA		
Restriction	ns - Dilect	300	350	400	450	500
1 + h - (f + )	2	LEC, DALI, 347V	LEC, DALI, 347V	DALI, 347V	DALI, 347V	DALI, 347V
Length (feet)	3	DALI, 347V	DALI, 347V			

#### **Output Multiplier Table**

Photometrics for the 4L 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.

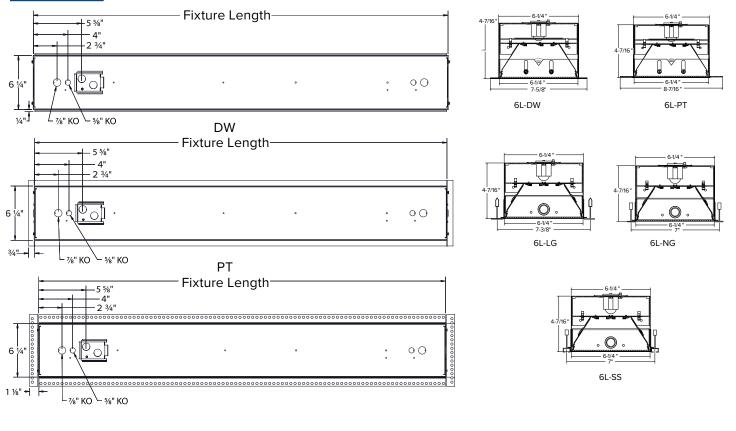
Option	2700K	3000K	3500K	4000K	5000K	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
SOF	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
REG	0.73	0.75	0.77	0.79	0.81	0.64	0.65	0.68	0.69	0.72
BWO	0.67	0.69	0.70	0.72	0.76	0.63	0.53	0.47	0.42	0.39
BAT	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
LPAD	0.86	0.88	0.90	0.93	0.95	0.75	0.77	0.79	0.81	0.84





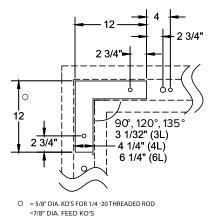
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

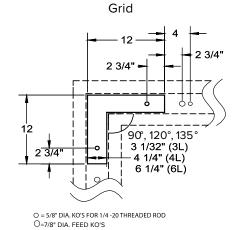
### DIMENSIONS

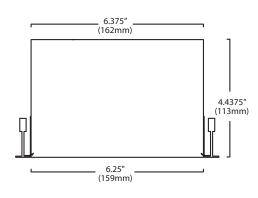


### INDIVIDUAL MOUNTING

Drywall







END CAP VIEW



PATTERNS



# PHOTOMETRY

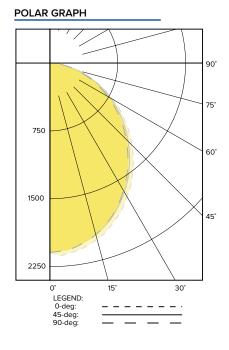
### 6L-R-D-04-SOF-X-CX-35K-D100

### LUMINAIRE DATA

Description	6L Recessed, Soft Diffuse Lens, 3500K
Delivered Lumens	4000
Watts	
Efficacy	118
Mounting	Recessed

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1884.30	47.1
0-60	3205.40	80.1
0–90	3999.70	100.0
0–180	4000.30	100.0



### 6L-X-D-04-BAT-CX-35K-D100

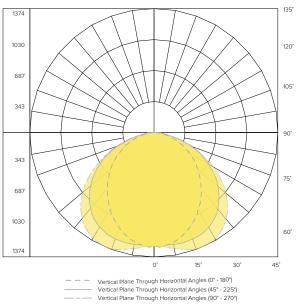
#### LUMINAIRE DATA

Description	6L Recessed, Batwing Lens, 3500K
Delivered Lumens	4000
Watts	36
Efficacy	111
Mounting	Recessed

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1746.36	43.68
0-60	3169.33	79.26
0-90	3998.46	100.00
0–180	3998.46	100.00

### POLAR GRAPH



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

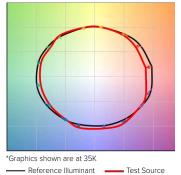




DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# TM-30 DATA





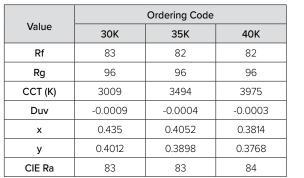
COLOR CHARACTERISTICS:

### COLOR DISTORTION GRAPHIC

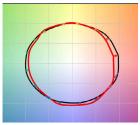


TEST RESULTS - 3500K							
Value	80+ CRI						
CCT (K)	3494						
CIE R <sub>a</sub>	83						
D <sub>uv</sub>	-0.0004						
R <sub>f</sub>	82						
R	96						
X	0.4052						
у	0.3898						

### SPECTRAL DISTRIBUTION:

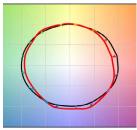


# COLOR VECTOR GRAPHIC: 30K





35K

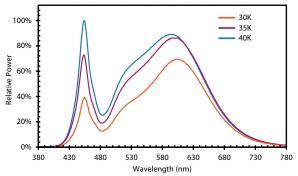




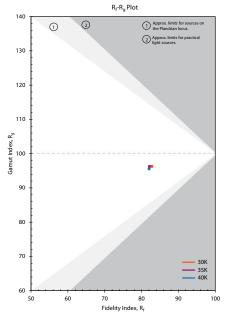








### COLOR GAMUT/FIDELITY PLOT:



### CRI: 80 MINIMUM

сст	CRI	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
30K	83	82	91	97	81	82	89	84	62	13	79	79	69	84	99
35K	83	81	89	95	81	81	85	86	65	13	73	79	62	83	97
40K	84	82	90	94	82	82	85	87	68	17	74	80	60	84	97





## ADDITIONAL INFORMATION

### <u>Driver</u>

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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

