

FEATURES

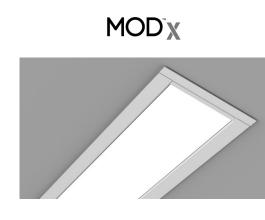
- · Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 2 SDCM color consistency
- End cap design eliminates visible diffuser seams/gaps



CONTROLS



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	



8 6L-R-D

RELATED PRODUCTS 8 <u>3L-R-D</u>

SERVICE PROGRAMS

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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)
- ASYM: Asymmetric Highly transmissive diffuse acrylic lens with linear prisms
- BAT: "Batwing" distribution created created from highly transmissive diffuse acrylic lens with linear prisms
- DRP: 1/2" protruding soft diffuse "drop" lens

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[™]: Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enabled emerging applications, such as Hubbell Lighting's SpectraSync[™] Color Tuning Technology
- 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

- · DLC® (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 Buy American Solutions 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 DAT	Ά
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





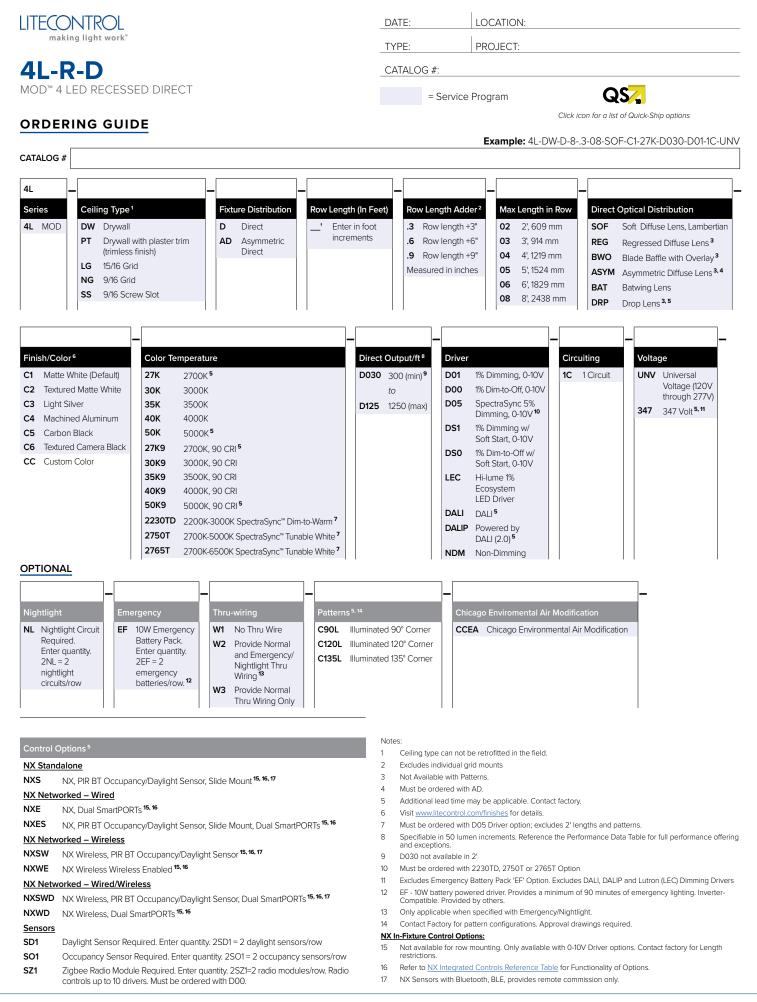


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PHOTOMETRY

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DIMENSIONAL DRAWINGS



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CONTROLS

NX Distributed Intelligence[™] 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 NXBTC/R 1	
NXES	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NX Networked	– Wireless								
NXSW	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NXWE ²	N/A	Yes	Yes	No	No	Yes	Yes	No ³	
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 ^{1,3}	

DATE:

TYPE:

CATALOG #:

NXBTC/R needs to be plugged into an available NX SmartPort[™] on the fixture network 1

2 Programming via App requires factory assistance

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

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

day and preferences of the	ady and preferences of the occupants with distinct spectrality in color running rectinologies.						
	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					

enhancing an occupant's mood and well-being

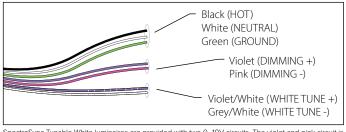
SpectraSync Tunable White

Scheduled 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.

2700K-5000K

2700K-6500K



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:

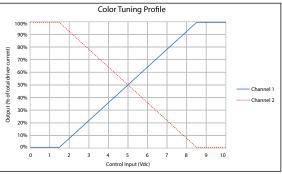
- Hubbell Control Solutions (HCS): NX Distributed Intelligence™ Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers

Mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day,

• Wattstopper: ADF120277 and CD4BL (Titan) dimmers

LOCATION:

PROJECT:





SpectraSync



HUBBELL

LITECONTROL	DATE:	LOCATION:
making light work"	TYPE:	PROJECT:
4L-R-D	CATALOG #:	
MOD™ 4 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
	Down	light	
D030 (min)	300	2.6	118
D035	350	3.0	118
D040	400	3.4	118
D045	450	3.8	118
D050	500	4.2	117
D055	550	4.7	117
D060	600	4.8	116
D065	650	5.6	116
D070	700	6.1	116
D075	750	6.5	115
D080	800	7.0	115
D085	850	7.5	113
D090	900	7.9	113
D095	950	8.5	112
D100	1000	9.0	112
D105	1050	9.4	111
D110	1100	10.0	110

(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 - Direct	300	350	400	450	500			
l	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.

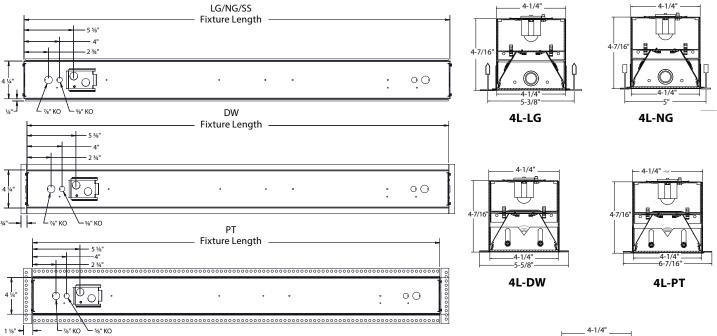
Option	2700K	3000K	3500K	4000K	5000K	2700K 90 CRI	3000K 90 CRI	3500K 90 CRI	4000K 90 CRI	5000K 90 CRI
SOF	0.95	0.98	1.00	1.03	1.05	0.83	0.85	0.88	0.90	0.93
REG	0.73	0.75	0.77	0.79	0.81	0.64	0.65	0.68	0.69	0.72
BWO	0.67	0.69	0.70	0.72	0.76	0.63	0.53	0.47	0.42	0.39
ASYM	0.95	0.98	1.00	1.03	1.05	0.83	0.85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

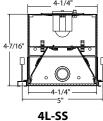


LITECONTROL
making light work"

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

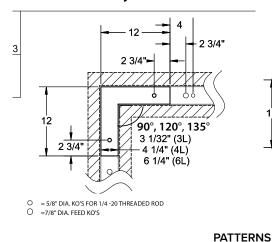
DIMENSIONS





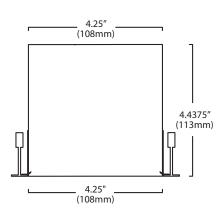
INDIVIDUAL MOUNTING

Drywall



D = 5/8" DIA. KO'S FOR 1/4 -20 THREADED ROD 0 = 5/8" DIA. KO'S FOR 1/4 -20 THREADED ROD 0 = 5/8" DIA. ETEE KO'S

Grid



END CAP VIEW





PHOTOMETRY

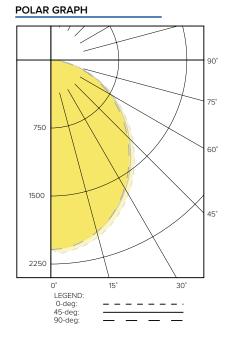
4L-R-D-04-SOF-X-CX-35K-D100

LUMINAIRE DATA

Description	4L Recessed, Soft Diffuse Lens, 3500K
Delivered Lumens	4000
Watts	
Efficacy	112
Mountina	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1885.80	47.1
0-60	3214.60	80.4
0-90	4000.10	100.0
0–180	4000.10	100.0



4L-R-AD-XX-XX-ASYM-CX-35K-D050

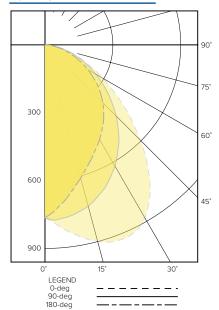
LUMINAIRE DATA

Description	4L Recessed, Soft Diffuse Lens, 3500K					
Delivered Lumens	2000					
Watts						
Efficacy	124					
Mounting	Recessed					

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	982.00	48.70
0–60	1658.00	82.30
0–90	2016.00	100.00
0–180	2016.00	100.00

POLAR GRAPH



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	





PHOTOMETRY

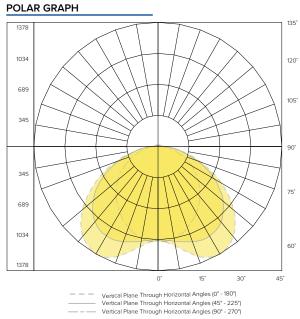
4L-X-D-04-BAT-CX-35K-D100

LUMINAIRE DATA

Description	4L Recessed, Batwing Lens, 3500K
Delivered Lumens	4000
Watts	
Efficacy	111
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1625.84	40.64
0-60	3056.77	76.42
0-90	3948.20	98.7.0
0–180	4000.17	100.0



4L-X-D-04-DRP-CX-35K-D100

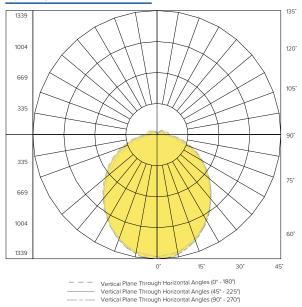
LUMINAIRE DATA

Description	4L Recessed, Drop Lens, 3500K
Delivered Lumens	4000
Watts	
Efficacy	110
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1613.08	40.60
0–60	2797.69	70.50
0–90	3677.99	92.70
0–180	3969.32	100.0

POLAR GRAPH



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

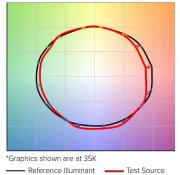




DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

TM-30 DATA





COLOR CHARACTERISTICS:

30K

83

96

3009

-0.0009

0.435

0.4012

83

Value

Rf

Rg

CCT (K)

Duv

х

У

CIE Ra

COLOR DISTORTION GRAPHIC



40K

82

96

3975

-0.0003

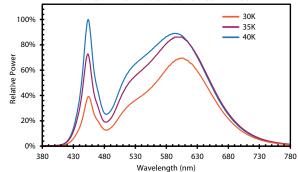
0.3814

0.3768

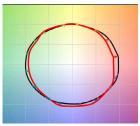
84

TEST RES	ULTS - 3500K					
Value	80+ CRI					
CCT (K)	3494					
CIE R _a	83					
D _{uv}	-0.0004					
R _f	82					
R	96					
X	0.4052					
у	0.3898					

SPECTRAL DISTRIBUTION:



COLOR VECTOR GRAPHIC: 30K





Ordering Code

35K

82

96

3494

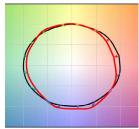
-0.0004

0.4052

0.3898

83

35K



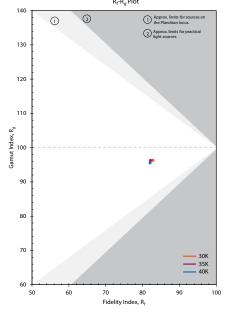












CRI: 80 MINIMUM

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

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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 #:	

