

2L-RW-D

MOD™ 2 LED RECESSED WALL DIRECT

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



SPECIFICATIONS

CONSTRUCTION

- Housing constructed 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 eliminate gaps and LED visibility

OPTICAL PERFORMANCE

- 2 SDCM color consistency, 80 or 90 CRI
- SOF: Soft diffuse acrylic lens
- ASYM: Asymmetric Highly transmissive diffuse acrylic lens with linear prisms
- BAT: "Batwing" distribution 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
- 90° Wall to Ceiling Mounting configurations available. Fixtures provided with special end caps with knockouts that allow for conduit (by others) to be run from wall to ceiling fixtures. C90L, C120L, C135L pattern configurations not available for ceiling to wall intersection
- 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: 6'- EF L or R: D030 through D085; 8'- EF Full: D030 through D055; 8'- EF L or R: D030 through D075. Available with SOF, ASYM, BAT downlight diffusers. Test switch located in lens. For rows where the battery fixture is in the middle of a row, the test switch will be located in that section

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

MOD^x



RELATED PRODUCTS

- Ø [3L-RW-D](#) Ø [4L-RW-D](#) Ø [6L-RW-D](#)

CONTROLS (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

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 DATA	
Lumen Range Per Foot	D: 300–850
Wattage Range Per Foot	2.9–8.6
Efficacy Range (LPW)	99–102
Rated Life (Hours)	L70: >61,000 L90: >61,000

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ORDERING GUIDE

Example: 2L-PT-WDC-8-4-.3-3-08-SOF-C1-27K-D030-D01-1C-UNV

CATALOG # _____

2L	Series	Mounting	Fixture Distribution	Wall Length (In Feet)	Ceiling Length (In Feet)	Wall Length Adder	Ceiling Length Adder	Max Length in Row
2L MOD	PT	Drywall with plaster trim (trimless finish)	WDC Direct WCAD Asymmetric Direct	__'W Enter in foot increments	__'C Enter in foot increments	.3 Wall length +3" .6 Wall length +6" .9 Wall length +9" Measured in Inches	.3 Wall length +3" .6 Wall length +6" .9 Wall length +9" Measured in Inches	02 2', 609 mm 03 3', 914 mm 04 4', 1219 mm 05 5', 1524 mm 06 6', 1829 mm 08 8', 2438 mm

Direct Optical Distribution	Finish/Color ³	Color Temperature	Direct Output/ft ⁶	Driver	Circuiting
SOF Soft Diffuse Lens, Lambertian	C1 Matte White (Default)	27K 2700K ⁴ 30K 3000K 35K 3500K 40K 4000K 50K 5000K ⁴	D030 300 (min) to D085 850 (max)	D01 1% Dimming, 0-10V D00 1% Dim-to-Off, 0-10V D05 SpectraSync 5% Dimming, 0-10V ⁷ DS1 1% Dimming w/ Soft Start, 0-10V DS0 1% Dim-to-Off w/ Soft Start, 0-10V LEC Hi-lume 1% Ecosystem LED Driver	1C 1 Circuit
ASYM Asymmetric Diffuse Lens ^{1,2}	C2 Textured Matte White	27K9 2700K, 90 CRI ⁴ 30K9 3000K, 90 CRI 35K9 3500K, 90 CRI 40K9 4000K, 90 CRI 50K9 5000K, 90 CRI ⁴		DALI DALI ¹ DALIP Powered by DALI (2.0) ¹ NDM Non-Dimming	
BAT Batwing Lens	C3 Light Silver C4 Machined Aluminum C5 Carbon Black C6 Textured Camera Black CC Custom Color	2230TD 2200K-3000K SpectraSync™ Dim-to-Warm ⁵ 2750T 2700K-5000K SpectraSync™ Tunable White ⁵ 2765T 2700K-6500K SpectraSync™ Tunable White ⁵			

OPTIONAL

Voltage	Nightlight	Emergency	Thru-wiring	Patterns ^{4,11}	Chicago Environmental Air Modification
UNV Universal Voltage (120V through 277V) 347 347 Volt ^{4,8}	NL Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	EF 10W Emergency Battery Pack. Enter quantity. 2EF = 2 emergency batteries/row. ⁹	W1 No Thru Wire W2 Provide Normal and Emergency/ Nightlight Thru Wiring ¹⁰ W3 Provide Normal Thru Wiring Only	C90L Illuminated 90° Corner C120L Illuminated 120° Corner C135L Illuminated 135° Corner	CCEA Chicago Environmental Air Modification

Control Options⁴

- NX Standalone**
NXS NX, PIR BT Occupancy/Daylight Sensor, Slide Mount^{12,13,14}
NX Networked – Wired
NXE NX, Dual SmartPorts^{12,13}
NXES NX, PIR BT Occupancy/Daylight Sensor, Slide Mount, Dual SmartPORTS^{12,13}
NX Networked – Wireless
NXSW NX Wireless, PIR BT Occupancy/Daylight Sensor^{12,13,14}
NXWE NX Wireless Wireless Enabled^{12,13}
NX Networked – Wired/Wireless
NXSWD NX Wireless, PIR BT Occupancy/Daylight Sensor, Dual SmartPORTS^{12,13,14}
NXWD NX Wireless, Dual Smart Ports^{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
SZ1 Zigbee Radio Module Required. Enter quantity. 2SZ1=2 radio modules/row. Radio controls up to 10 drivers. Must be ordered with D00.

Notes:

- Not Available with Patterns.
 - Must be ordered with WCAD.
 - Visit www.litecontrol.com/finishes for details.
 - Additional lead time may be applicable. Contact factory.
 - Must be ordered with D05 Driver option; excludes 2' lengths and patterns.
 - Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
 - Must be ordered with 2230TD, 2750T or 2765T Option
 - Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEC) Dimming Drivers
 - EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
 - Only applicable when specified with Emergency/Nightlight.
 - Contact Factory for pattern configurations. Approval drawings required.
- NX In-Fixture Control Options:**
- 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.
 - NX Sensors with Bluetooth, BLE, provides remote commission only.

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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								
NXS	NXSMP-SMI	No	Yes	Yes	Yes	Yes	Yes	Yes
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 – 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}

- 1 NXBTC/R needs to be plugged into an available NX SmartPort™ 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™ Color Tuning Technology:

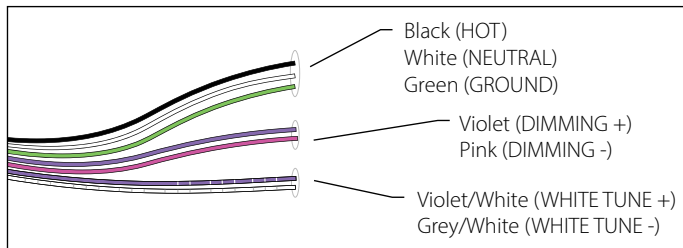
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCH 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.

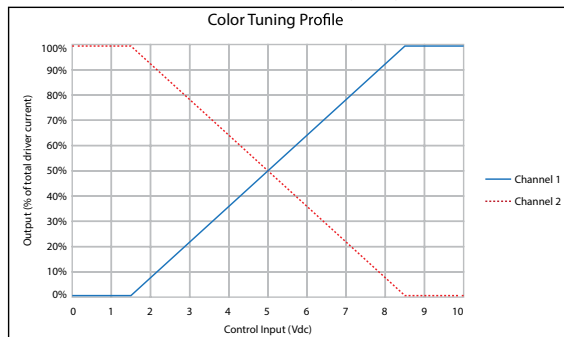


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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™ Room Controllers (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DDTV, DVSTV, and NDTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



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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
Downlight			
D030 (min)	300	2.9	102
D050	500	5.2	96
D085	850	8.6	99

(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				
		300	350	400	450	500
Length (feet)	2	LEC, DALI, 347V	LEC, DALI, 347V	DALI, 347V	DALI, 347V	DALI, 347V
	3	DALI, 347V	DALI, 347V			

Output Multiplier Table

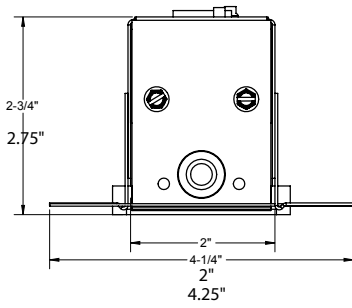
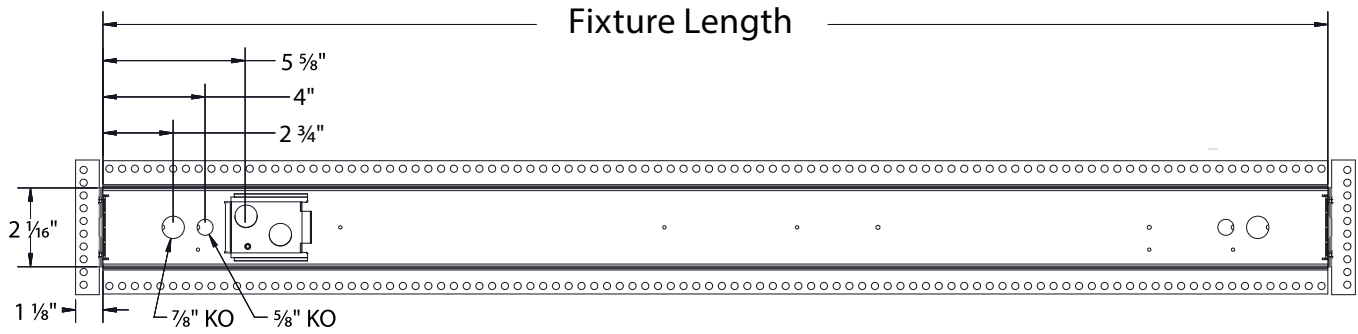
Photometrics for the 4L are published here at a nominal 3500K temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

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

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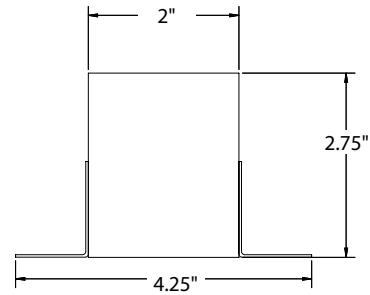
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DIMENSIONS

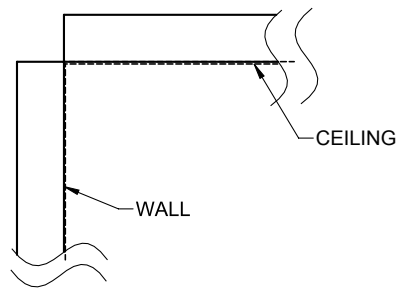


2L-PT

INDIVIDUAL MOUNTING



END CAP VIEW



PATTERNS

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PHOTOMETRY

2L-R-D-04-SOF-X-CX-35K-D100

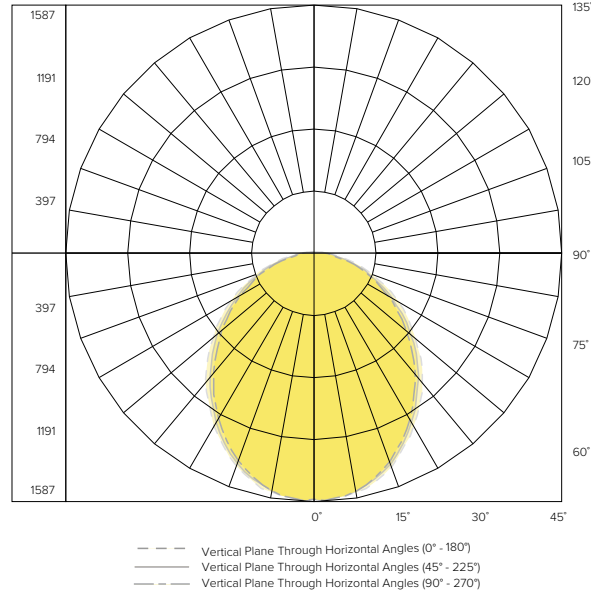
LUMINAIRE DATA

Description	2L Recessed Wall, Soft Diffuse Lens, 3500K
Delivered Lumens	3999
Watts	
Efficacy	95
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1905.97	47.7
0-60	3229.26	80.7
0-90	3999.61	100.0
0-180	3999.61	100.0

POLAR GRAPH



2L-R-AD-4-XX-XX-ASYM-X-CX-35K-D050

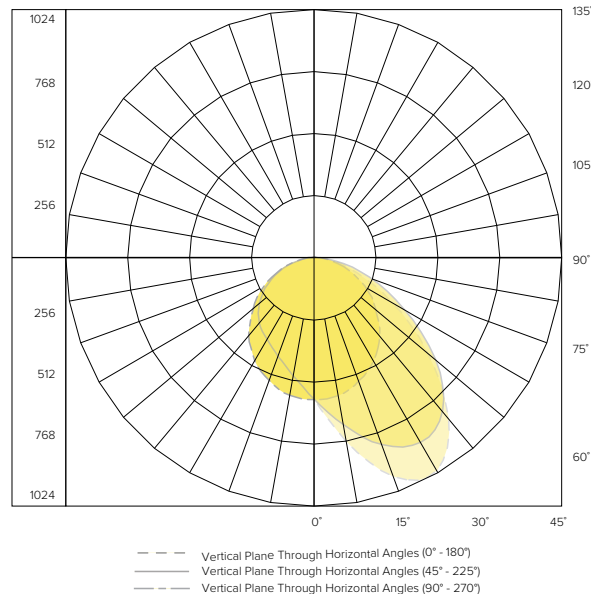
LUMINAIRE DATA

Description	2L Recessed Wall, Soft Diffuse Lens, 3500K
Delivered Lumens	1999
Watts	20
Efficacy	82
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	896.16	44.8
0-60	1613.68	80.7
0-90	1999.5	100.0
0-180	1999.96	100.0

POLAR GRAPH



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PHOTOMETRY CONTINUED

2L-X-D-04-BAT-CX-35K-D100

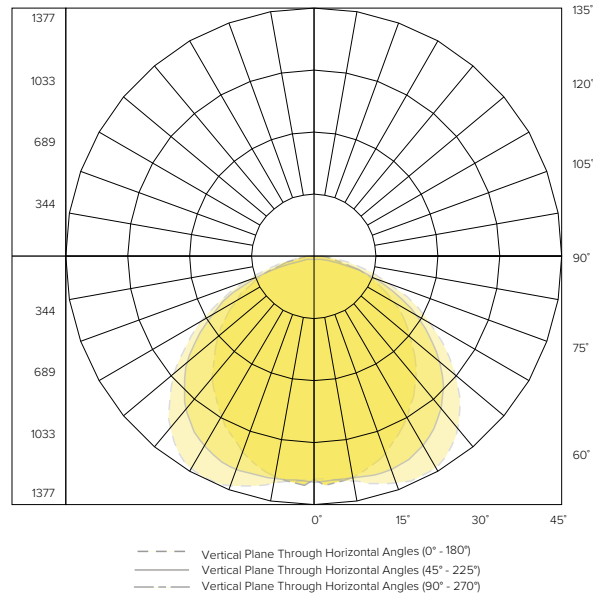
LUMINAIRE DATA

Description	2L Recessed Wall, Batwing Lens, 3500K
Delivered Lumens	3999
Watts	
Efficacy	95
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1744.72	43.6
0-60	3180.69	79.5
0-90	3999.29	100
0-180	3999.29	100.0

POLAR GRAPH

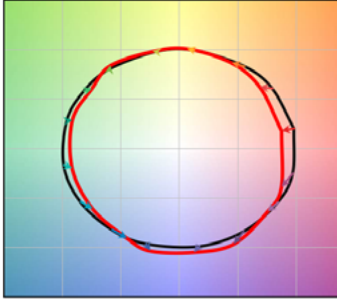


2L-RW-D

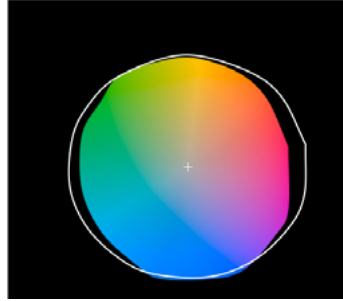
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TM-30 DATA

COLOR VECTOR GRAPHIC



COLOR DISTORTION GRAPHIC



TEST RESULTS - 3500K	
Value	80+ CRI
CCT (K)	3494
CIE R _a	83
D _{uv}	-0.0004
R _f	82
R _g	96
x	0.4052
y	0.3898

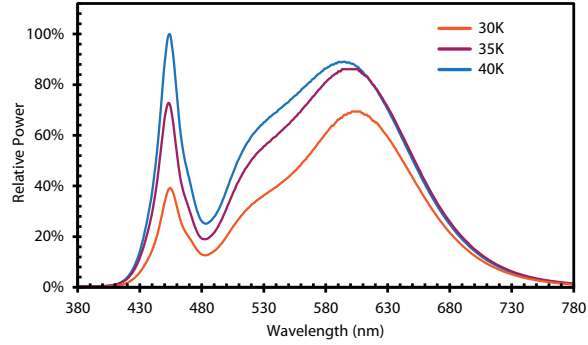
*Graphics shown are at 35K

— Reference Illuminant — Test Source

COLOR CHARACTERISTICS:

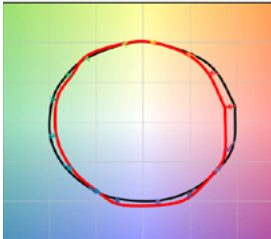
Value	Ordering Code		
	30K	35K	40K
R _f	83	82	82
R _g	96	96	96
CCT (K)	3009	3494	3975
D _{uv}	-0.0009	-0.0004	-0.0003
x	0.435	0.4052	0.3814
y	0.4012	0.3898	0.3768
CIE Ra	83	83	84

SPECTRAL DISTRIBUTION:

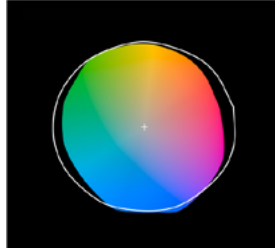
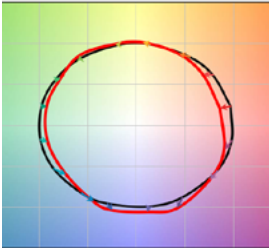


COLOR VECTOR GRAPHIC:

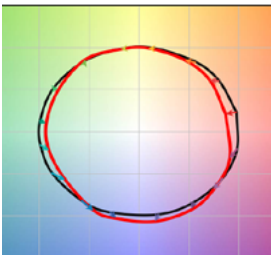
30K



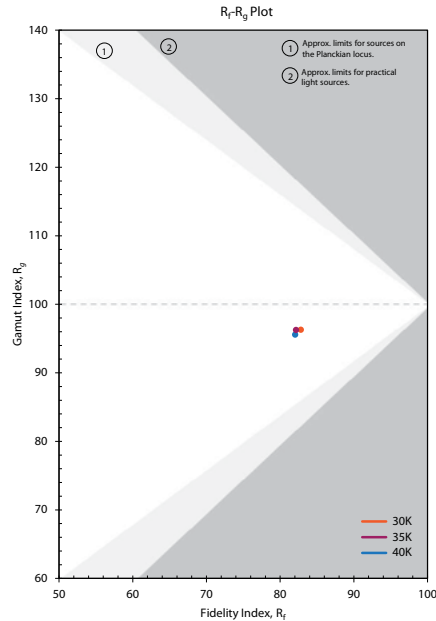
35K



40K



COLOR GAMUT/FIDELITY PLOT:



CRI: 80 MINIMUM

CCT	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

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