LITECONTROL
making light work™

3L-RW-D
MOD™ 3 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

DLC QPL LISTED™

BUY AMERICAN SOLUTIONS — See Certification Specifications

MOD X

RELATED PRODUCTS

2L-RW-D   4L-RW-D   6L-RW-D

CONTROLS

NX | **DISTRIBUTED INTELLIGENCE™** | **SpectraSync™** Color Tuning Technology

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
- ASYM: Asymmetric Highly transmissive diffuse acrylic lens with linear prisms
- 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
- 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 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 DATA	
Lumen Range Per Foot	D: 300–1100
Wattage Range Per Foot	2.6–10.1
Efficacy Range (LPW)	109–116
Rated Life (Hours)	L70: >61,000 L90: >61,000

HUBBELL Lighting

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ORDERING GUIDE

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

CATALOG #

3L		Mounting		Fixture Distribution		Wall Length (In Feet)		Ceiling Length (In Feet)		Wall Length Adder		Ceiling Length Adder		Max Length in Row	
Series															
3L	MOD	PT	Drywall with plaster trim (trimless finish)	WDC	Direct	__'W	Enter in foot increments	__'C	Enter in foot increments	.3	Wall length +3"	.3	Wall length +3"	02	2', 609 mm
				WCAD	Asymmetric Direct					.6	Wall length +6"	.6	Wall length +6"	03	3', 914 mm
										.9	Wall length +9"	.9	Wall length +9"	04	4', 1219 mm
											Measured in Inches		Measured in Inches	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]	D030	300 (min)	D01	1% Dimming, 0-10V	1C	1 Circuit
ASYM	Asymmetric Diffuse Lens [1,2]			30K	3000K		*to*	D00	1% Dim-to-Off, 0-10V		
BAT	Batwing Lens	C2	Textured Matte White	35K	3500K	D125	1250 (max)	D05	SpectraSync 5% Dimming, 0-10V [7]		
				40K	4000K						
		C3	Light Silver	50K	5000K [4]			DS1	1% Dimming w/ Soft Start, 0-10V		
		C4	Machined Aluminum	27K9	2700K, 90 CRI [4]			DS0	1% Dim-to-Off w/ Soft Start, 0-10V		
				30K9	3000K, 90 CRI						
		C5	Carbon Black	35K9	3500K, 90 CRI			LEC	Hi-lume 1% Ecosystem LED Driver		
				40K9	4000K, 90 CRI						
		C6	Textured Camera Black	50K9	5000K, 90 CRI [4]			DALI	DALI [4]		
				2230TD	2200K-3000K SpectraSync™ Dim-to-Warm [5]			DALIP	Powered by DALI (2.0) [4]		
		CC	Custom Color	2750T	2700K-5000K SpectraSync™ Tunable White [5]						
				2765T	2700K-6500K SpectraSync™ Tunable White [5]			NDM	Non-Dimming		

OPTIONAL

Voltage		Nightlight		Emergency		Thru-wiring		Patterns [4,11]		Chicago Enviromental Air Modification	
UNV	Universal Voltage (120V through 277V)	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	C90L	Illuminated 90° Corner	CCEA	Chicago Environmental Air Modification
347	347 Volt [4,8]					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 [4]

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:
1. Not Available with Patterns.
2. Must be ordered with WCAD.
3. Visit www.litecontrol.com/finishes for details.
4. Additional lead time may be applicable. Contact factory.
5. Must be ordered with D05 Driver option; excludes 2' lengths and patterns.
6. Specifiable in 50 lumen increments. Reference the Performance Data Table for full performance offering and exceptions.
7. Must be ordered with 2230TD, 2750T 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.
14. NX Sensors with Bluetooth, BLE, provides remote commission only.

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CONTROLS

NX))) **DISTRIBUTED**™ **INTELLIGENCE**

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

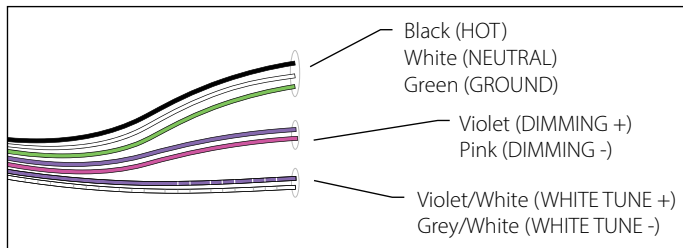### SpectraSync™ Color Tuning Technology:
Control your space based on the needs of the application, specific activities throughout the
day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

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-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.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Pink (DIMMING -)

Violet/White (WHITE TUNE +)
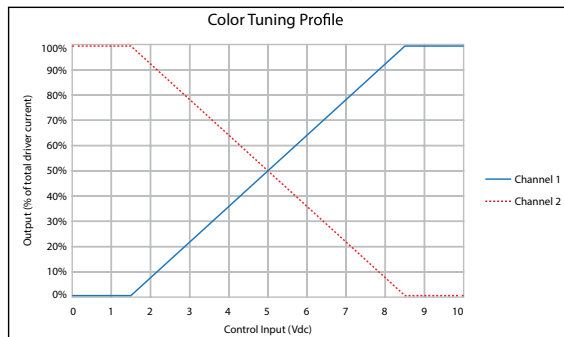Grey/White (WHITE TUNE -)

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 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
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile

— Channel 1
···· Channel 2

Output (% of total driver current) vs Control Input (Vdc)

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DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

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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	2.6	116
D035	350	3.0	116
D040	400	3.4	116
D045	450	3.9	116
D050	500	4.3	116
D055	550	4.8	115
D060	600	5.2	115
D065	650	5.7	113
D070	700	6.2	113
D075	750	6.6	112
D080	800	7.1	112
D085	850	7.6	111
D090	900	8.1	111
D095	950	8.6	110
D100	1000	9.1	110
D105	1050	9.6	109
D110	1100	10.1	109

(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
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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DIMENSIONS
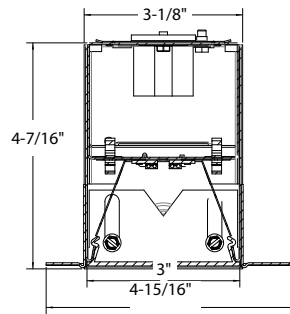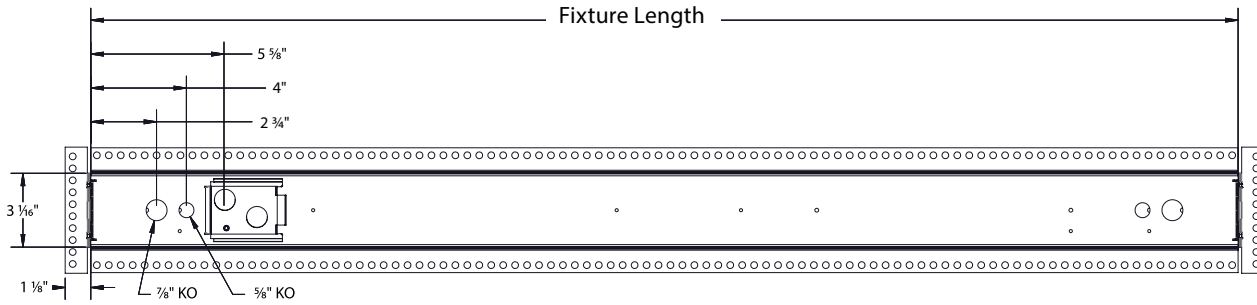
3L-PT

INDIVIDUAL MOUNTING
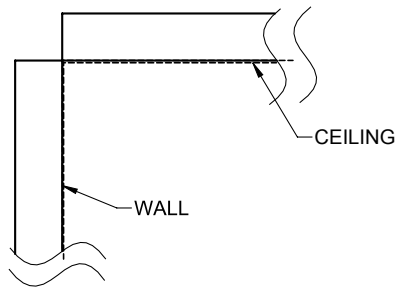
PATTERNS

END CAP VIEW

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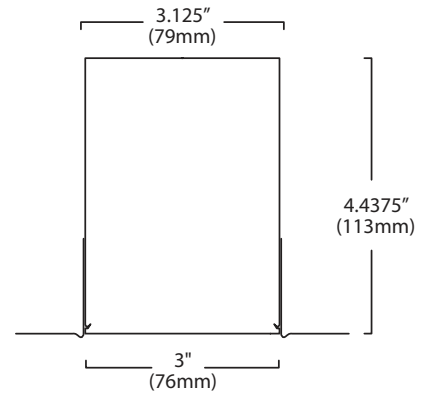
3L-RW-D
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PHOTOMETRY

3L-R-D-04-SOF-X-CX-35K-D100

LUMINAIRE DATA

Description	3L Recessed Wall, Soft Diffuse Lens, 3500K
Delivered Lumens	3999
Watts	
Efficacy	111
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1885.80	47.1
0–60	3214.60	80.4
0–90	4000.00	100.0
0–180	4000.00	100.0

POLAR GRAPH

LEGEND:
0-deg:
45-deg:
90-deg:
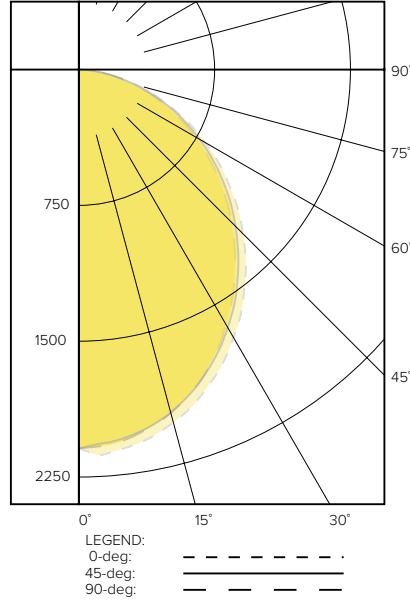
3L-R-AD-XX-XX-ASYM-CX-35K-D050

LUMINAIRE DATA

Description	3L Recessed Wall, Soft Diffuse Lens, 3500K
Delivered Lumens	1999
Watts	
Efficacy	116
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	921.00	44.8
0–60	1575.00	82.4
0–90	1911.00	100.0
0–180	1911.00	100.0

POLAR GRAPH

LEGEND:
0-deg:
90-deg:
180-deg:

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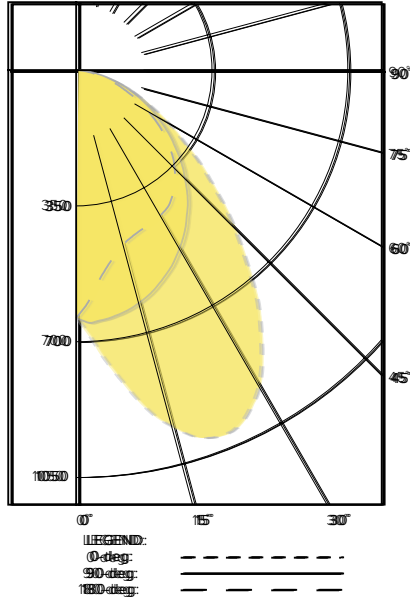
3L-RW-D

MOD™ 3 LED RECESSED WALL DIRECT

PHOTOMETRY CONTINUED

3L-X-D-04-BAT-CX-35K-D100

LUMINAIRE DATA

Description	2L Recessed Wall, Batwing Lens, 3500K
Delivered Lumens	3999
Watts	
Efficacy	111
Mounting	Recessed Wall

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1630.85	40.76
0–60	3157.61	78.92
0–90	4001.02	100
0–180	4001.02	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°)

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3L-RW-D

MOD™ 3 LED RECESSED WALL DIRECT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	
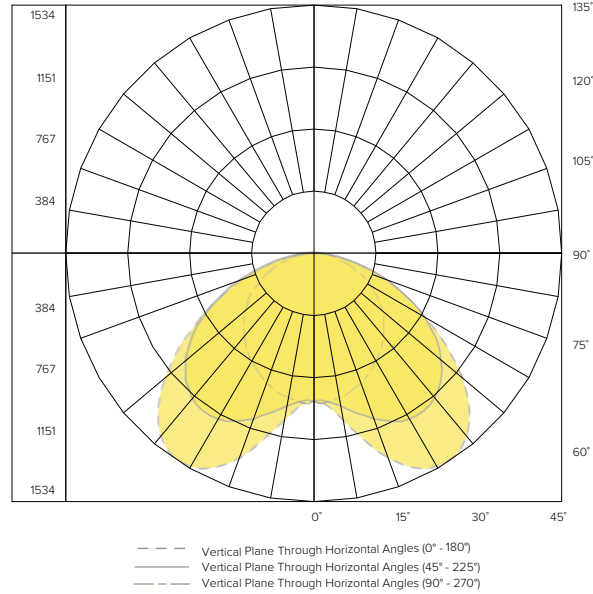
TM-30 DATA

COLOR VECTOR GRAPHIC

*Graphics shown are at 35K

— Reference Illuminant   — Test Source
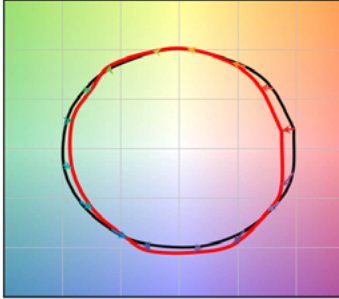
COLOR DISTORTION GRAPHIC

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

COLOR CHARACTERISTICS:

Value	Ordering Code		
	30K	35K	40K
Rf	83	82	82
Rg	96	96	96
CCT (K)	3009	3494	3975
Duv	-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:
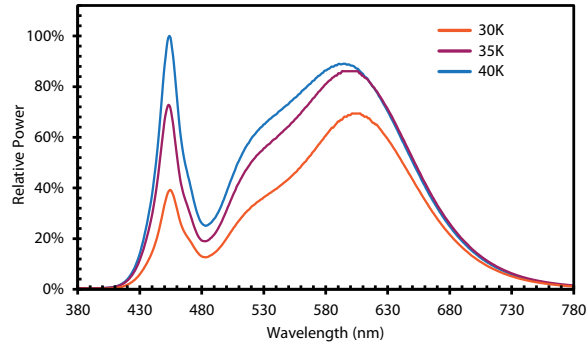
COLOR VECTOR GRAPHIC:

30K
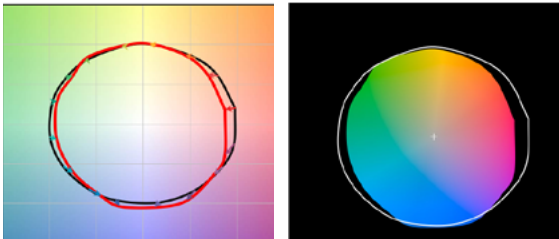
35K
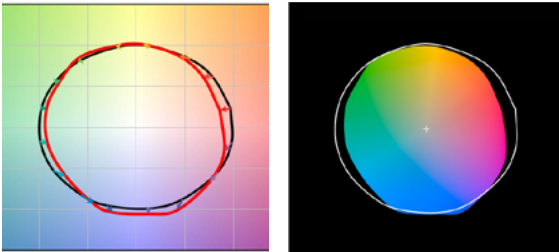
40K
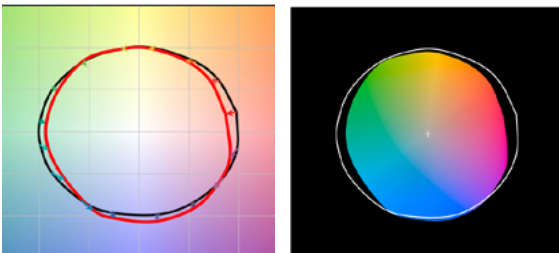
COLOR GAMUT/FIDELITY PLOT:
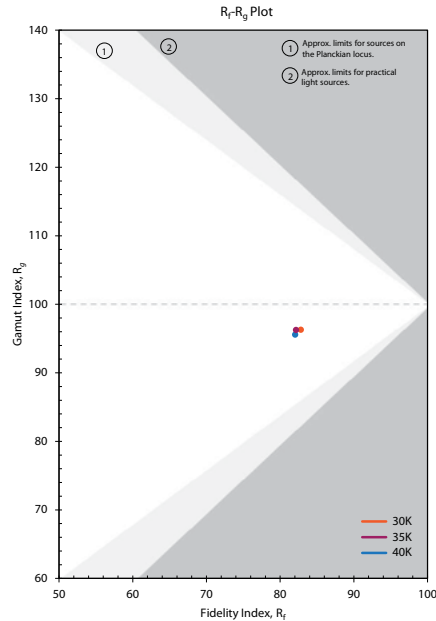
CRI: 80 MINIMUM

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