LITECONTROL
making light work™

DATE: LOCATION:

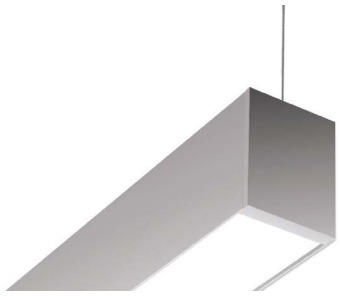
TYPE: PROJECT:

CATALOG #:

6L-P-ID

MOD™ 6 LED PENDANT INDIRECT/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

See Certification Specifications

CONTROLS

NX DISTRIBUTED INTELLIGENCE™ SpectraSync™

RELATED PRODUCTS

2L-P-ID 3L-P-ID 4L-P-ID

SERVICE PROGRAMS

QS

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 elimate gaps and LED visibility
- Dust cover constructed from clear acrylic lens with magnetic interface

OPTICS

- 2 SDCM color consistency, 80 or 90 CRI
- SOF: Soft diffuse acrylic lens
- REG: ½" 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

- Suspension required at every row joint. 3/64" diameter field-adjustable aircraft cables, ships separately
- Low profile cable gripper limits visibility while providing maximum horizontal balance adjustment
- Pendant locations at ends of rows (or individual fixtures) are 1/2" from fixture ends
- Pendant attachment allows for horizontal adjustment to "fine-tune" side-to-side leveling
- 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"
- 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
- 2C (2 Circuit uplight/downlight) Uplight and downlight switched/dimmed separately. Two power feeds required
- Non-feed: 2" diameter canopy covers provided (unless 5" non-feed cover is specified)
- Feed Cord: 4-wire, 7 amps max; 5-wire, 5 amps max.
- 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

CERTIFICATIONS (CONTINUED)

- 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	I: 300–1200 D: 300–1100
Wattage Range Per Foot	2.0–8.6
Efficacy Range (LPW)	117–152
Rated Life (Hours)	L70: >61,000 L90: >61,000

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= Service Program

Click icon for a list of Quick-Ship options

6L-P-ID

MOD™ 6 LED PENDANT INDIRECT/DIRECT

ORDERING GUIDE

Example: 6L-P-ID-STD-8-8-SOF-C1-27K-I030-D030-D01-1C-UNV-FA1

CATALOG #

6L

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

Finish/Color [2]		Color Temperature		Indirect Output/ft [5]		Direct Output/ft [5]		Driver		Circuiting	
C1	Matte White (Default)	27K	2700K [3]	I030	300 (min) [6]	D030	300 (min) [6]	D01	1% Dimming, 0-10V	1C	1 Circuit
C2	Textured Matte White	30K	3000K	*to*		*to*		D00	1% Dim-to-Off, 0-10V	2C	2 Circuit - Uplighting / Downlight
C3	Light Silver	35K	3500K	I135	1350 (max)	D125	1250 (max)	D05	SpectraSync 5% Dimming, 0-10V [7]		
C4	Machined Aluminum	40K	4000K					DS1	1% Dimming w/ Soft Start, 0-10V		
C5	Carbon Black	50K	5000K [3]					DS0	1% Dim-to-Off w/ Soft Start, 0-10V		
C6	Textured Camera Black	27K9	2700K, 90 CRI					LEC	Hi-lume 1% Ecosystem LED Driver		
CC	Custom Color	30K9	3000K, 90 CRI					DALI	DALI [3]		
		35K9	3500K, 90 CRI					DALIP	Powered by DALI (2.0) [3]		
		40K9	4000K, 90 CRI					NDM	Non-Dimming		
		50K9	5000K, 90 CRI [3]								
		2230TD	2200K-3000K SpectraSync™ Dim-to-Warm [4]								
		2750T	2700K-5000K SpectraSync™ Tunable White [4]								
		2765T	2700K-6500K SpectraSync™ Tunable White [4]								

OPTIONAL

Voltage		Suspension Kit [9]		Nightlight		Emergency		Thru-wiring		Patterns [3, 12]		Dust Cover		T-Bar Clips [13]	
UNV	Universal Voltage (120V through 277V)	FA1	Suspension Kit, 51"	NL	Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row	EF	10W Emergency Battery Pack. Enter quantity. 2EF = 2 emergency batteries/row. [10]	W1	No Thru Wire	C90L	Illuminated 90° Corner	L1	Clear Acrylic Dust Cover Lens	CB1	T-bar clip - 15/16"
347	347 Volt [3, 8]	FA2	Suspension Kit, 87"					W2	Provide Normal and Emergency/ Nightlight Thru Wiring [11]	C120L	Illuminated 120° Corner			CB2	T-bar clip - 9/16"
		FA3	Suspension Kit, 219"					W3	Provide Normal Thru Wiring Only	C135L	Illuminated 135° Corner			CB3	T-bar clip - 9/16" SS
		FA4	Suspension Kit, 363"												

Control Options [3]	
NX Standalone	
NXS	NX, PIR BT Occupancy/Daylight Sensor, Slide Mount [14, 15, 16]
NX Networked – Wired	
NXE	NX, Dual SmartPORTs [14, 15]
NXES	NX, PIR BT Occupancy/Daylight Sensor, Slide Mount, Dual SmartPORTs [14, 15]
NX Networked – Wireless	
NXSW	NX Wireless, PIR BT Occupancy/Daylight Sensor [14, 15, 16]
NXWE	NX Wireless Wireless Enabled [14, 15]
NX Networked – Wired/Wireless	
NXSWD	NX Wireless, PIR BT Occupancy/Daylight Sensor, Dual SmartPORTs [14, 15, 16]
NXWD	NX Wireless, Dual SmartPORTs [14, 15]
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 www.litecontrol.com/finishes 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, 2750T or 2765T Option

8 Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LEC) Dimming Drivers

9 Add suffix /V to replace all 2" non-feed canopy covers with 5" canopy covers. FA1/V = 51" suspension kit w/ 5" canopies; canopies and feed cord are supplied in white regardless of fixture color unless otherwise specified.

10 EF - 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. Available in 4'+ fixtures.

11 Only applicable when specified with Emergency/Nightlight.

12 Contact Factory for pattern configurations. Approval drawings required.

13 Includes Luminaire Canopy Box.

NX In-Fixture Control Options:

14 Not available for row mounting. Only available with 0-10V Driver options. Contact factory for Length restrictions.

15 Refer to NX Integrated Controls Reference Table for Functionality of Options.

16 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:

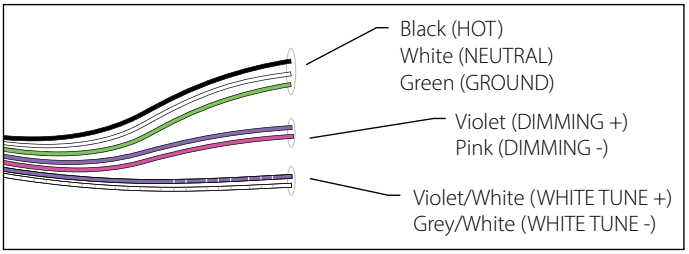
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

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.

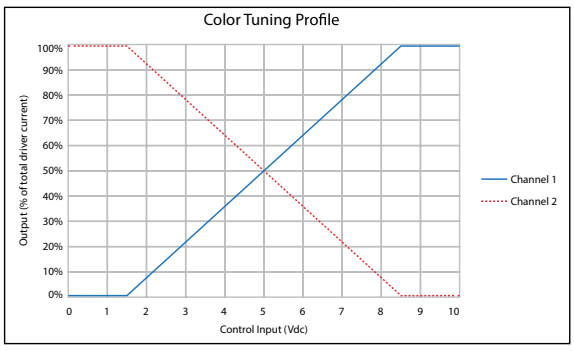


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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



NX Design & Application Guide
NX Brochure
SpectraSync
NX Solutions Guide

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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
Uplight (STD Distribution)			
I030 (min)	300	2.0	149
I050	500	3.3	152
I075	750	5.0	149
I100	1000	6.9	145
I120	1200	8.6	141
Downlight			
D030 (min)	300	2.6	118
D050	500	4.1	119
D075	750	6.4	119
D110	1100	8.6	117

(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 - Indirect		Output STD		
		300	350	400
Length (feet)	2	Not Available	Not Available	Not Available

Restrictions - Indirect		Output LPA		
		300	350	400
Length (feet)	2	Not Available	Not Available	Not Available

Restrictions - Direct		Output LPA
		300
Length (feet)	2	Not Available

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

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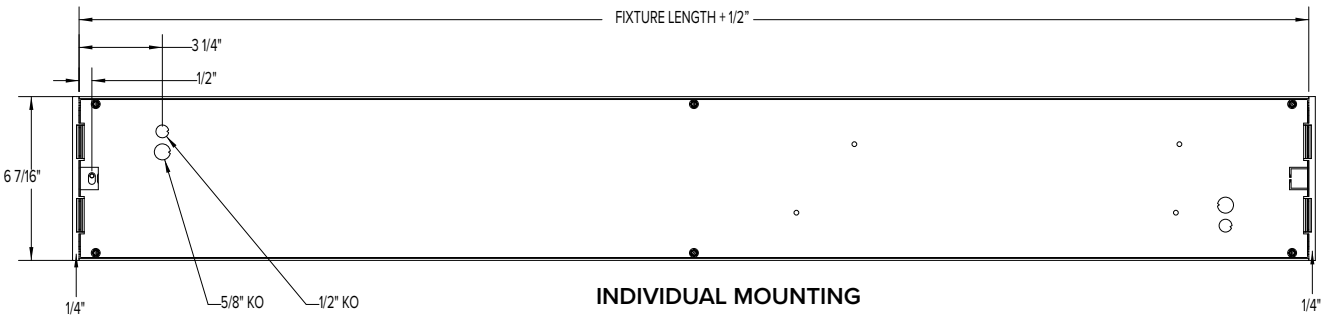
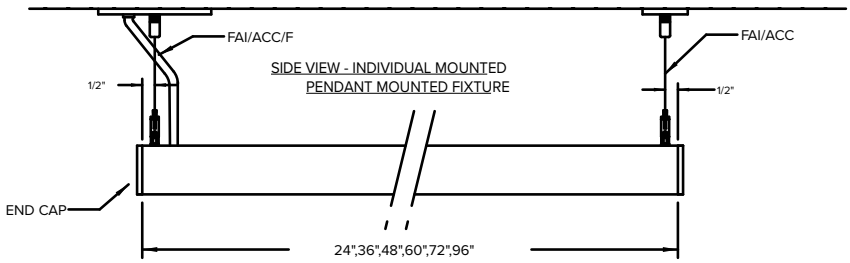
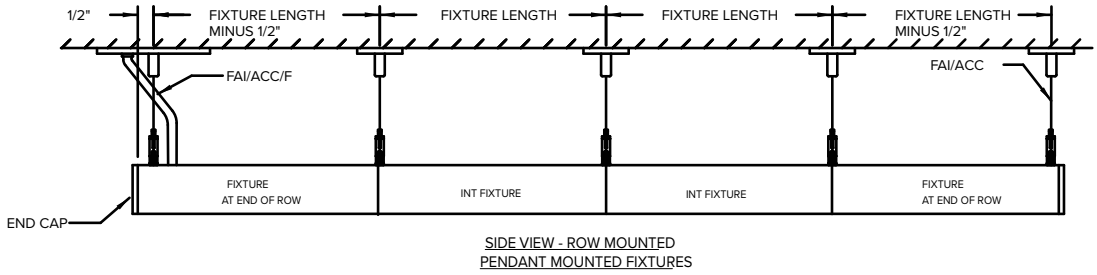
DIMENSIONS

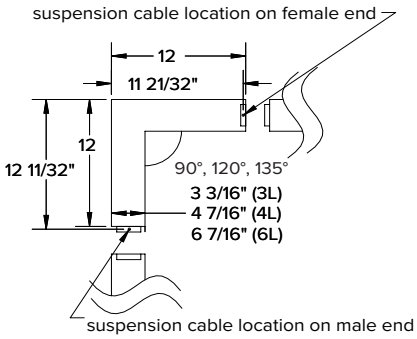


INDIVIDUAL MOUNTING

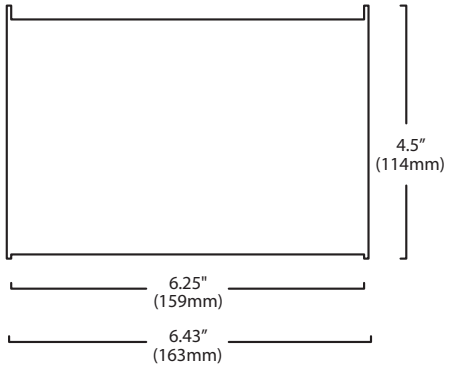




ROW MOUNTING



PATTERNS



END CAP VIEW

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PHOTOMETRY

6L-P-ID-STD-4-SOF-X-CX-35K-I100-D100

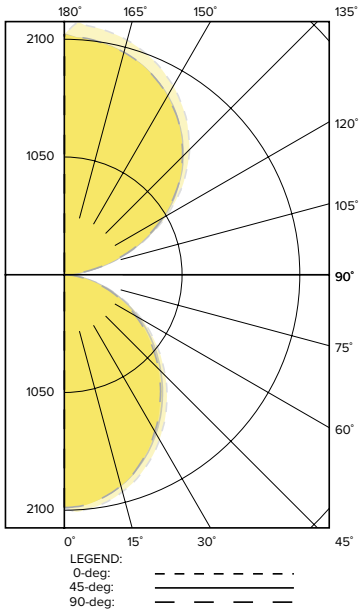
LUMINAIRE DATA

Description	**6L Pendant Indirect, Standard Uplight, Soft Diffuse Lens, 3500K**
Delivered Lumens	**8000**
Watts	**W**
Efficacy	**125**
Mounting	**Pendant**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1885.8	23.6
0–60	3214.6	40.2
0–90	4000.1	50.0
0–180	7998.7	100.0

POLAR GRAPH



6L-P-ID-LPA-4-SOF-X-CX-35K-I100-D100

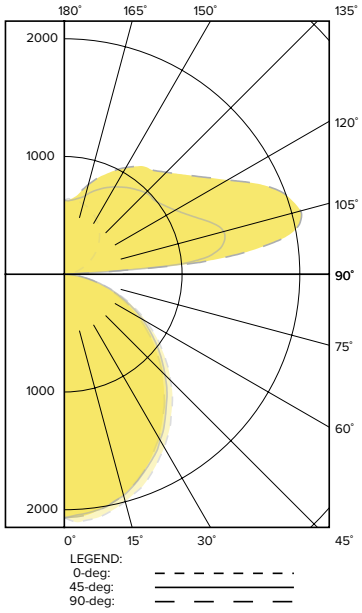
LUMINAIRE DATA

Description	**6L Pendant Indirect, Low Peak Angle Uplight, Soft Diffuse Lens, 3500K**
Delivered Lumens	**8000**
Watts	**W**
Efficacy	**119**
Mounting	**Pendant**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1885.8	23.6
0–60	3214.6	40.2
0–90	4000.1	50.0
0–180	7999	100.0

POLAR GRAPH



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PHOTOMETRY CONTINUED

6L-P-D-4-BAT-X-CX-35K-D100

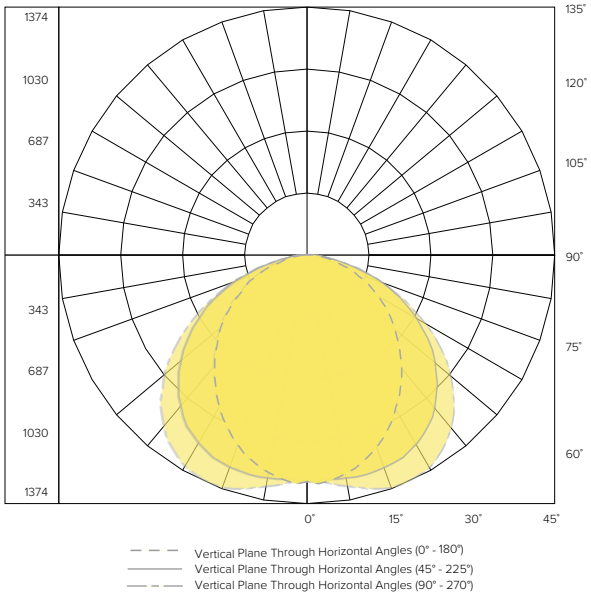
LUMINAIRE DATA

Description	**6L Pendant Indirect, Batwing Lens, 3500K**
Delivered Lumens	**4000**
Watts	**W**
Efficacy	**111**
Mounting	**Pendant**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1746.36	43.68
0–60	3169.33	79.26
0–90	3998.46	100.0
0–180	3998.46	100.0

POLAR GRAPH



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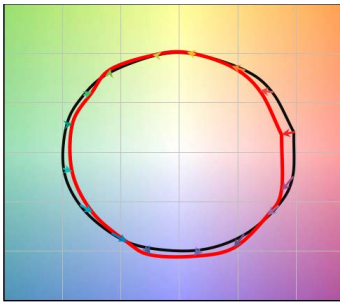
TM-30 DATA

COLOR VECTOR GRAPHIC



*Graphics shown are at 35K

Reference Illuminant — Test Source

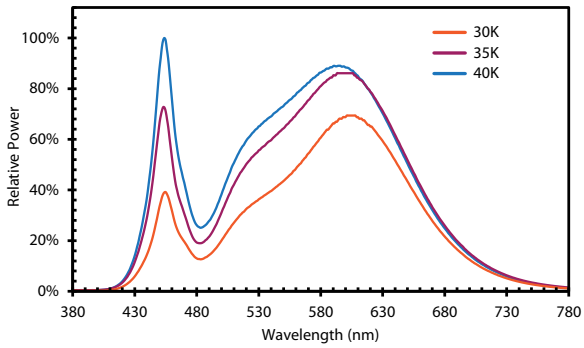
COLOR DISTORTION GRAPHIC

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:

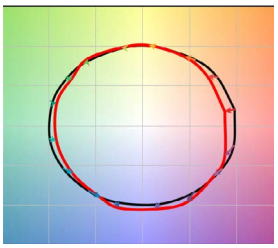
Value	Ordering Code		
	30K	35K	40K
Rf	83	82	82
Rg	96	96	96
CCT (K)	3009	3494	3975
Duv	-0.0009	-0.0004	-0.0003
x	0.435	0.4052	0.3814
y	0.4012	0.3898	0.3768
CIE Ra	83	83	84

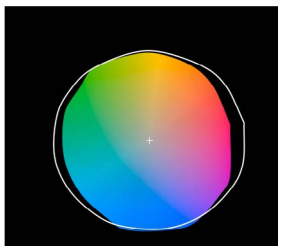
SPECTRAL DISTRIBUTION:



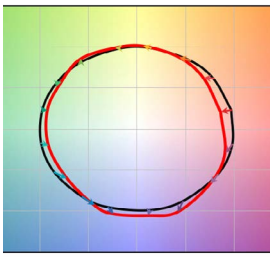
COLOR VECTOR GRAPHIC:

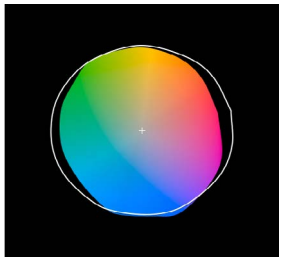
30K



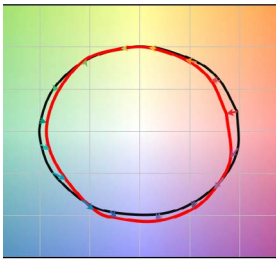


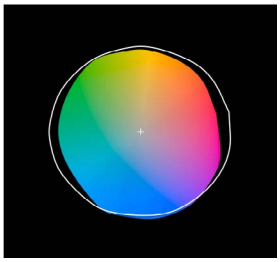
35K



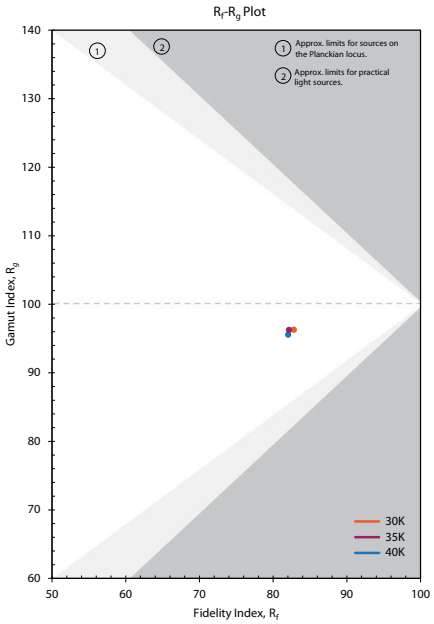


40K





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

HUBBELL Lighting

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

6L-P-ID

MOD™ 6 LED PENDANT INDIRECT/DIRECT

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