

## 22 LED Pendant Indirect

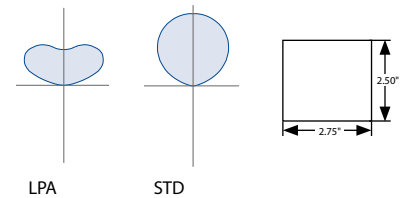
Fixture Type:

Project Name:

### Ordering Guide

Feature	Code	Options	Description
<b>Series</b>		22L	100% Indirect Linear
<b>Mounting</b>		P	Pendant
<b>Fixture distribution</b>		I	Indirect
<b>Uplight distribution</b>		STD LPA LPAD	Standard Low Peak Angle Low Peak Angle with Diffuser
<b>Row length (in feet)</b>		---'	Enter in foot increments. Note fixture lengths below.
<b>Max length in row</b>		03 04 06 08	3', 914mm 4', 1219mm 6', 1829mm 8', 2438mm
<b>Finish/Color</b>		C1 C2 C3 C4 C5 C6 CC	Matte White (Default) Textured Matte White Light Silver Machined Aluminum Carbon Black Textured Camera Black Custom Color
<b>Color temperature</b>		27K 30K 35K 40K 50K 27K9 30K9 35K9 40K9 50K9 2230TD 2750T 2765T	2700K 3000K 3500K 4000K 5000K+ 2700K, 90 CRI+ 3000K, 90 CRI 3500K, 90 CRI 4000K, 90 CRI 5000K, 90 CRI+ 2200K-3000K SpectraSync™ Dim-to-Warm* 2700K-5000K SpectraSync™ Tunable White* 2700K-6500K SpectraSync™ Tunable White* *Must be ordered with D05 Driver option
<b>Indirect output/ft</b> (specifiable in 50 lumens/ft increments)		I030 I125	300 1250
<b>Driver*</b>		NDM D05 D01 DS1 D00 DS0 LEC DALI DALIP	Non Dimming 5% Dimming, 0-10V* 1% Dimming, 0-10V Soft-Start 1% Dimming, 0-10V Dim-to-off (1%), 0-10V Soft-Start Dim-to-off (1%), 0-10V Hi-lume 1% EcoSystem LED driver DALI+ Powered DALI (2.0)+ *Must be ordered with 2230TD, 2750T or 2765T Option

\* Additional lead time may be applicable. Contact factory.



### Key Features

- Variable Intensity technology provides specifiable lumen output/wattage
- 100% indirect distribution
- 2 SDCM color variation

### Performance

Nomenclature	Lumens/ft	W/ft	Efficacy
<b>Uplight (STD)</b>			
I030 (min)	300	2.1	146
I050	500	3.4	148
I075	750	5.2	146
I100	1000	7.1	142
I125 (max)	1250	9.5	132
<b>Uplight (LPA)</b>			
I030 (min)	300	2.3	131
I050	500	3.8	132
I075	750	5.9	128
I100	1000	8.1	124
I125 (max)	1250	10.7	117

(wattage may vary up to 5% from published)



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**22L-P-I**

## 22 LED Pendant Indirect

### Ordering Guide (continued)

<b>Circuiting</b>		1C	1 Circuit
<b>Voltage</b>		UNV 120 277 347	Universal Voltage 120 Volt 277 Volt 347 Volt** *Excludes Emergency Battery Pack 'EF' Option. Excludes DALI, DALIP and Lutron (LTW/LEC) Dimming Drivers
<b>Suspension kit*</b>		FA1 FA2 FA3 FA4	Suspension Kit, 51" Suspension Kit, 87" Suspension Kit, 219" Suspension Kit, 363" * 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

Optional Features	Code	Options	Description
<b>Nightlight</b>		_NL	Nightlight Circuit Required. Enter quantity. 2NL = 2 nightlight circuits/row
<b>Emergency*</b>		EF	10W Emergency Battery Backup Indicate how many in the row. Example: 2EF = 2 Emergency batteries/row *Only available in 6' & 8'. Contact factory for restrictions.
<b>Thru-wiring</b>		W1 W2 W3	No Thru Wire Provide Normal and Emergency/Nightlight Thru Wiring* Provide Normal Thru Wiring Only *Only applicable when specified with Emergency/Nightlight
<b>Dust Cover</b>		L1	Clear Acrylic Dust Cover Lens* *Only available with STD and LPA upright distribution options
<b>T-Bar Clips*</b>		CB1 CB2 CB3	T-bar clip - 15/16" T-bar clip - 9/16" T-bar clip - 9/16" SS *Includes Luminaire Canopy Box, see page 4 for details

Control Options	Code	Options	Description
<b>NX**</b>		NXE NXWE NXES NXS NXSW NXWD NXSWD	NX Enabled, Dual SmartPorts NX Wireless Enabled NX Enabled, Dual SmartPorts, PIR Occupancy Sensor, Dimming Daylight Harvesting NX, PIR Occupancy Sensor, Dimming Daylight Harvesting (standalone) NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting NX Wireless Enabled, Dual SmartPORTs NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, Dual SmartPORTs *Not available for row mounting; Only available with 0-10V Driver options; Contact factory for Length restrictions
<b>Sensors*</b>		_SD1 _SO1	Daylight Sensor Required. Enter quantity. 2SD1= 2 daylight sensors/row Occupancy Sensor Required. Enter quantity. 2SO1= 2 occupancy sensors/row

\* Additional lead time may be applicable. Contact factory.

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**22L-P-I**

LED / 22L-P-I

## 22 LED Pendant Indirect

### Details

#### Construction:

Housing-extruded aluminum with sheet metal end headers.  
End caps- Sheet metal, flat style.

#### Indirect Diffuser:

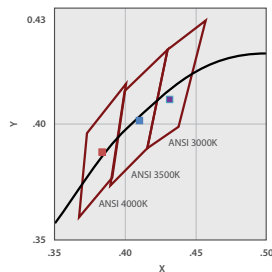
LPAD - Low peak angle with diffuser. Used to soften light appearance on close to wall/ceiling applications. Output multiplier (.87, 10° LPA loss)

#### Finish/Color:

Visit [www.litecontrol.com/finishes](http://www.litecontrol.com/finishes) for details.

#### CCT:

27K-2700K output multiplier (0.95)  
30K-3000K output multiplier (0.98)  
35K-3500K output multiplier (1.00)\*  
40K-4000K output multiplier (1.03)  
50K-5000K output multiplier (1.05)  
27K9-2700K 90 CRI output multiplier (0.83)  
30K9-3000K 90 CRI output multiplier (0.85)  
35K9-3500K 90 CRI output multiplier (0.88)  
40K9-4000K 90 CRI output multiplier (0.90)  
50K9-5000K 90 CRI output multiplier (0.93)  
\*Scale all values from 35K



#### Color Variation:

2 step MacAdam ellipse

#### Output (VI technology):

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. Specify each in 50 lumen increments/ft within the below range:

	Lumens/ft	Nomenclature
Indirect		
Min:	300	I030
Max:	1250	I125

\*See driver limitations in Output Exceptions above.

#### Field Accessibility:

LED boards and drivers can be accessed and removed from fixture, while installed. Entire LED module can be removed and replaced.

#### Circuiting:

1C (1 Circuit) Fixture wired for a single circuit.

#### Suspension Kit:

3/64" diameter field-adjustable aircraft cable. Ship separately. Suspension required at every row joint. Low profile cable gripper limits visibility while providing maximum horizontal balance adjustment.

#### Canopy covers:

Non-feed-2" diameter (unless 5" non-feed cover is specified).

#### Driver:

NDM: Non-dimming. Fixture will be wired for fixed light output.  
D05: Osram 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.  
D01: 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control.  
DS1: Soft-Start 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.  
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.  
LTW: Lutron Hi-Lume 2-Wire dimming using Lutron A-Series driver.  
DALI: DALI compatible.  
DALIP: Self-Powered DALI bus (e.g. SR, DEXAL)

#### Feed cord:

4-wire, 7 amps max; 5-wire, 5 amps max.

#### Nightlight:

See separate LC-Nightlight spec sheet for additional details.

#### Emergency:

EF: 10W battery powered driver. Provides a minimum of 90 minutes of emergency lighting.  
Inverter-Compatible. Provided by others.  
See separate LC-Emergency spec sheet for additional details.


#### Thru wiring:

See separate LC-Thruwire spec sheet for additional details.

**NX Distributed Intelligence:** **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.  
See separate [NX Application Guide](#) for additional details.  
See Hubbell Controls Solution [NX Brochure](#).

#### Sensors:

SD1: Daylight sensor(Wattstopper part #FD301).  
SO1: Occupancy sensor(Wattstopper FS-305 with FS-L6 lens).  
NX: See separate [Control Options Guide](#) for additional details.

**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 two distinct SpectraSync™ Color Tuning Technology.

Dim to Warm: Dim to Warm mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed. (Available with 2200K-3000K).  
Tunable White: Tunable White offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space. (Available with 2700K-5000K or 2700K-6500K).

See separate [SpectraSync™ Tech Sheet](#) for additional details.  
See separate [NX™ Solutions Guide](#) for additional details.

## 22 LED Pendant Indirect

### Details (continued)

**Luminaire Canopy Box:**

See separate [LC instructions](#) for additional details

\*For use with Grid Ceilings only

**T-Bar Clips:**

See separate [LC instructions](#) for additional details

\*For use with Grid Ceilings only

**Dust cover:**

Clear acrylic lens.

**Rated Life (LED Board):**

Tested in accordance to LM79-2008 & derived from EPA TM-21 calculator

L70: >61,000 (reported per TM-21/LM80 6x's limitation)

L90: >61,000 (reported per TM-21/LM80 6x's limitation)

Driver: ≥50,000 hours (5 year Warranty)

**Planning for installation:**

Suspension Mounting Locations

Yoke with field adjustable aircraft cable attaches directly to end header. Mounting points in rows are exactly "on module" at 36", 48", 72", and 96", including at ends of rows.

**Rated Life (Driver):**

Standard = 100,000 hours

Lutron = 50,000 hours

**Fixture weight:**

3 lbs/ft.

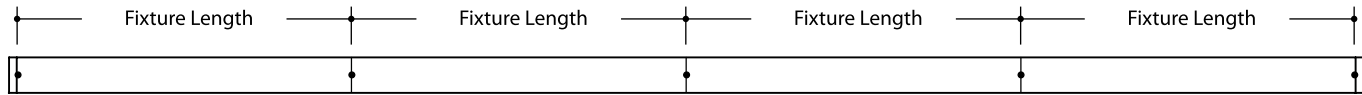
**Ratings:**

CSA listed for damp locations. IBEW. AF of L. UL924.

**Warranty:**

LED Boards- 5 years

LED Drivers (Standard)- 5 years, Lutron- 3 years

**Row Diagram:**

End cap

Fixture Lengths: 3', 4', 6', and 8'

• Indicates pendant locations

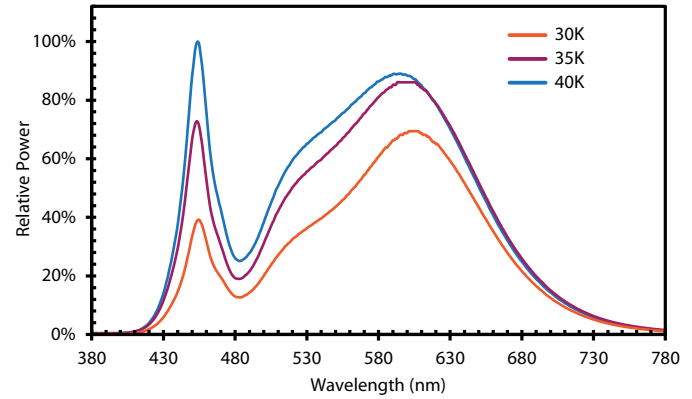
## 22 LED Pendant Indirect

### Details (continued)

#### Color Characteristics:

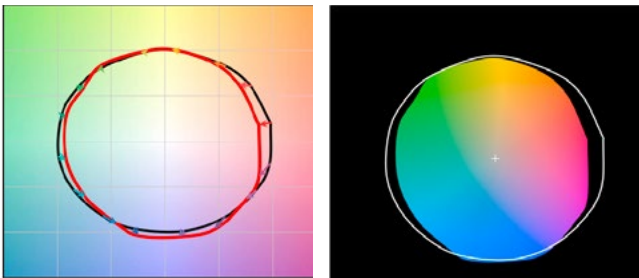
Value	Ordering Code		
	30K	35K	40K
Rf	83	82	82
Rg	96	96	96
CCT (K)	3009	3494	3975
Duv	-0.0009	-0.0004	-0.0003
x	0.435	0.4052	0.3814
y	0.4012	0.3898	0.3768
CIE Ra	83	83	84

#### Spectral Distribution:

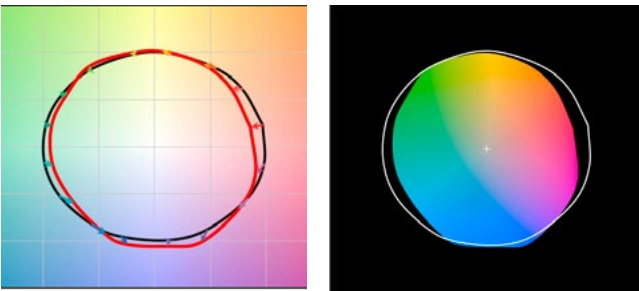


#### Color Vector Graphic:

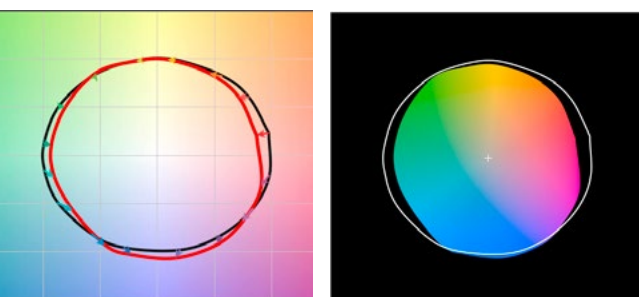
30K:



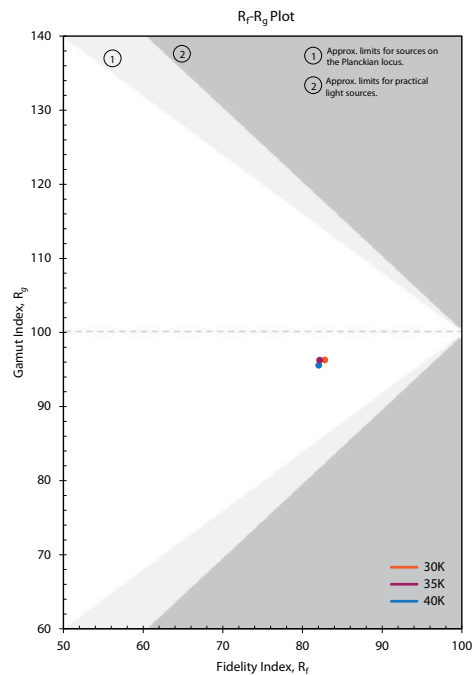
35K:



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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**22L-P-1**

## 22 LED Pendant Indirect

### Photometry

**Fixture:** 22L-P-I-LPA-4-CX-30K-I120-D01-1C-UNV-W3

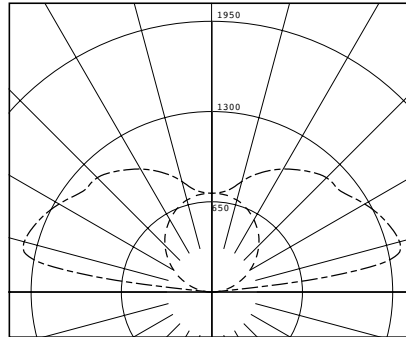
**CCT:** 3000K

**Output:** I120

**Nominal lumens:** 1200 lumens/ft

**Efficacy:** 118 lm/W

**Test report:** 22L-P-I-LPA-4-CX-30K-I120-D01-1C-UNV-W3



LEGEND  
0-deg ———  
90-deg - - - -

#### Zonal Lumens

Zone	Lumens	Lamp %
0-90	0	0.0%
90-120	2221	45.4%
90-130	3008	61.5%
90-150	4229	86.5%
90-180	4889	100.0%
0-180	4889	100.0%