

SAE 101

LINEAR PENDANT INDIRECT/DIRECT SAE 101

Fixture Type:

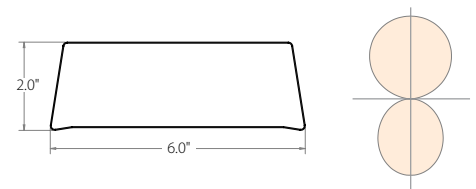
Project Name:

Ordering Guide

| Feature | Code | Options | Description |
|--|------|--|--|
| Program | | SAE | SAE Program |
| Series | | 101 | 101 |
| Mounting | | P | Pendant |
| Fixture Distribution | | ID | Indirect/Direct |
| Row Length (in feet) | | —' | Enter in foot increments. Note fixture lengths below. |
| Max Length in row | | 02 | 2', 610mm |
| | | 03 | 3', 914mm |
| | | 04 | 4', 1219mm |
| | | 06 | 6', 1829mm |
| | | 08 | 8', 2438mm |
| Distribution Diffuser | | SOF | Soft Diffuse Lens |
| Finish/Color | | C1 | Matte White (Default) |
| | | C2 | Textured Matte White |
| | | C3 | Light Silver |
| | | C4 | Machined Aluminum |
| | | C5 | Carbon Black |
| | | C6 | Textured Camera Black |
| | | CC | Custom Color |
| Color Temperature | | 27K | 2700K |
| | | 30K | 3000K |
| | | 35K | 3500K |
| | | 40K | 4000K |
| | | 50K | 5000K* |
| | | 27K9 | 2700K, 90 CRI |
| | | 30K9 | 3000K, 90 CRI |
| | | 35K9 | 3500K, 90 CRI |
| | | 40K9 | 4000K, 90 CRI |
| | | 50K9 | 5000K, 90 CRI* |
| | | 2230TD | 2200K-3000K SpectraSync™ Dim to Warm* |
| | | 2750T | 2700K-5000K SpectraSync™ Tunable White* |
| | | 2765T | 2700K-6500K SpectraSync™ Tunable White* |
| | | *Must be ordered with D05 Driver option; excludes 2' and 3' lengths | |
| Indirect output/ft (specifiable in 50 lumen/ft increments) | | I050 | 500 |
| | | I145 | 1450 |
| Direct output/ft (specifiable in 50 lumen/ft increments) | | D040 | 400 |
| | | D105 | 1050 |
| Circuiting | | 1C | 1 Circuit |
| | | 2C | 2 Circuit - Uplight/Downlight |

* Additional lead time may be applicable. Contact factory.

| | |
|------------|-----------|
| DATE: | LOCATION: |
| TYPE: | PROJECT: |
| CATALOG #: | |



Key Features:

- Vi Technology for specifiable output/wattage
- SpectraSync™ Color Tuning Technology
- Maximum color variation of 2 SDCM
- Continuous lens with flanged end casting to eliminate light leak
- Interlocking feature for row joining to eliminate light leak and facilitate ease of installation

Performance

Uplight

| Nomenclature | Lumens/ft | W/ft | Efficacy |
|--------------|-----------|------|----------|
| I050 (min) | 500 | 3.5 | 152 |
| I060 | 600 | 4.3 | 148 |
| I070 | 700 | 4.9 | 152 |
| I080 | 800 | 5.3 | 162 |
| I090 | 900 | 6.4 | 150 |
| I100 | 1000 | 7.5 | 144 |
| I110 | 1100 | 8.6 | 138 |
| I120 | 1200 | 9.1 | 142 |

Downlight

| Nomenclature | Lumens/ft | W/ft | Efficacy |
|--------------|-----------|------|----------|
| D040 (min) | 400 | 3.5 | 113 |
| D050 | 500 | 4.7 | 106 |
| D060 | 600 | 5.5 | 110 |
| D070 | 700 | 6.4 | 110 |
| D080 | 800 | 7.4 | 108 |
| D090 | 900 | 8.7 | 104 |
| D095 | 950 | 9.0 | 105 |



Ordering Guide (continued)

| Driver | | NDM | Non Dimming |
|-------------------|------|---------|--|
| | | D05 | 5% Dimming, 0-10V |
| | | D01 | 1% Dimming, 0-10V |
| | | DS1 | Soft-Start 1% Dimming, 0-10V |
| | | D00 | Dim-to-off (1%), 0-10V |
| | | DS0 | Soft-Start Dim-to-off (1%), 0-10V |
| | | LEC | Lutron Ecosystem Dimming |
| | | LTW | Lutron Hi-Lume 1% 2-wire LED driver (120V forward phase only) |
| | | DALI | DALI+ |
| | | DALIP | Powered DALI (2.0)+ *Must be ordered with 2230TD, 2750T or 2765T option |
| Voltage | | UNV | Universal Voltage (120V through 277V) |
| | | 277 | 277 Volt |
| | | 347 | 347 Volt** *Excludes Emergency Battery Pack 'EF' Option. Excludes DALI and DALIP Dimming Drivers |
| | | | |
| Suspension Kit* | | FA1 | Suspension Kit, 51" |
| | | FA2 | Suspension Kit, 87" |
| | | FA3 | Suspension Kit, 219" |
| | | FA4 | 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. For dual feed contact factory. |
| Optional Features | Code | Options | Description |
| Nightlight | | NL | Nightlight Circuit Required. Enter quantity. 2NL= 2 nightlight circuits/row |
| Emergency | | EF | 10W Emergency Battery Backup. Enter quantity. 2EF = 2 Emergency batteries/row. See Details for restrictions. |
| Thru-wiring | | W1 | No Thru Wire |
| | | W2 | Provide Normal and Emergency Thru Wiring* |
| | | W3 | Provide Normal Thru Wiring Only *Only applicable when specified with emergency |
| Dust Cover | | L1 | Clear Acrylic Dust Cover Lens |
| T-Bar Clips | | CB1 | T-Bar clip- 15/16" |
| | | CB2 | T-bar clip- 9/16" |
| | | CB3 | T-bar clip- 9/16" SS *Includes Luminare Canopy Box, see page 4 for details |

+ Additional lead time may be applicable. Contact factory.

SAE 101

LINEAR PENDANT INDIRECT/DIRECT SAE 101

| | |
|------------|-----------|
| DATE: | LOCATION: |
| TYPE: | PROJECT: |
| CATALOG #: | |

Ordering Guide (continued)

| Control Options | Code | Options | Description |
|-----------------|------|---------|---|
| NX** | | NXE | NX Enabled, Dual SmartPorts |
| | | NXW | NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor |
| | | NXERM | NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming |
| | | NXWRM | NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming *Not available for row mounting; Only available with 0-10V Driver options; Contact factory for Length restrictions |
| Sensors* | | _SD1 | Daylight Sensor Required. Enter quantity. 2SD1= 2 daylight sensors/row |
| | | _SO1 | Occupancy Sensor Required. Enter quantity. 2SO1= 2 occupancy sensors/row |

* Additional lead time may be applicable. Contact factory.

SAE 101

LINEAR PENDANT INDIRECT/DIRECT SAE 101

Details (continued)

Construction:

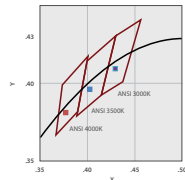
Housing- Steel
End Caps- Die Cast Aluminum
Lens- Acrylic

Finish/Color:

CC- Customer Colors may be subject to extended lead times.

Color Temperature:

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.

Output:

Specify in 50 lumen increments within the below range:

Indirect Output

| | Lumens/ft | Nomenclature |
|------|-----------|--------------|
| Min: | 500 | I050 |
| Max: | 1450 | I145 |

Direct Output

| | Lumens/ft | Nomenclature |
|------|-----------|--------------|
| Min: | 400 | D040 |
| Max: | 1050 | D105 |

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 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
LTW: 100% - 1% dimming range. Lutron 2-wire 120V forward phase control dimmer compatible using Hi-Lume 1% 2-wire (LTE series LED driver)
DALI: DALI Compatible.
DALIP: Self-Powered DALI bus (e.g. SR, DEXAL)

DATE:

LOCATION:

TYPE:

PROJECT:

CATALOG #:

Circuiting:

1C (1 Circuit) Fixture wired for a single circuit.
2C (2 Circuit uplight/downlight) Uplight and Downlight switched/dimmed separately. Two power feeds required.

Suspension Kit:

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

NX Lighting Controls:

Supports indoor and outdoor applications, wired, wireless and hybrid networked NX Lighting Controls deployments and enables emerging applications such as Current Lighting's SpectraSync™ color tuning technology.

See separate NX Application Guide for additional details.

See NX Lighting Controls Brochure.

Sensors:

SD1: Daylight sensor(Wattstopper part #FD301).
Installs between diffusers.
SO1: Occupancy sensor(Wattstopper FS-305 with FS-L6 lens).
Installs between diffusers.
NX Lighting Controls: NX Sensors installs between diffusers.

See separate Control Options Guide for additional details.

Thru-Wiring:

See separate LC- Thru Wire spec sheet for additional details.

Row Joining:

Row joining can be accomplished without disassembling the fixture, with the exception of power feed connection. Row joining can be completed from the top with two 1/4-20" head cap screws and 1/4-20" square nuts.

Field accessibility:

LED boards and drivers can be accessed, removed, and replaced from installed fixture. Contact factory.

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

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 Lighting Controls Guide for additional details.

SAE 101

LINEAR PENDANT INDIRECT/DIRECT SAE 101

Details (continued)

Nightlight:

See separate LG-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.

Feed Cord:

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

Fixture Weight:

2.875 lbs/ft

Ratings:

CSA listed for damp locations.

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.

Contact factory for configurations including NX Lighting Controls or sensors.



Warranty:

LED boards- 5 years

LED drivers (standard)- 5 years, Lutron- 3 years

Rated Life:

Tested in accordance with the LM79-2008 and derived from EPA TM-21 calculator

L70: 257,000 (calculated per TM-21 extrapolated curve)

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

L90: 66,000 (calculated per TM-21 extrapolated curve)

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

| | |
|------------|-----------|
| DATE: | LOCATION: |
| TYPE: | PROJECT: |
| CATALOG #: | |

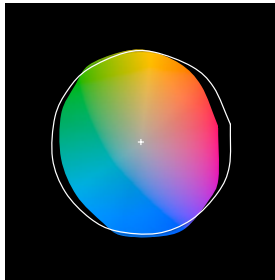
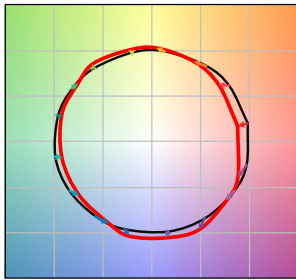
Details (continued)

Color Characteristics:

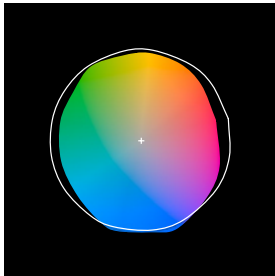
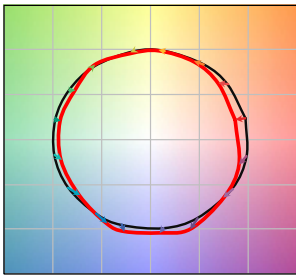
| Value | Ordering Code | | |
|---------|---------------|---------|---------|
| | 30K | 35K | 40K |
| Rf | 82 | 82 | 82 |
| Rg | 98 | 95 | 95 |
| CCT (K) | 3014 | 3441 | 3985 |
| Duv | -0.0014 | -0.0013 | -0.0009 |
| x | 0.4340 | 0.4073 | 0.3805 |
| y | 0.3996 | 0.3888 | 0.3748 |
| CIE Ra | 83 | 84 | 84 |

Color Vector Graphic:

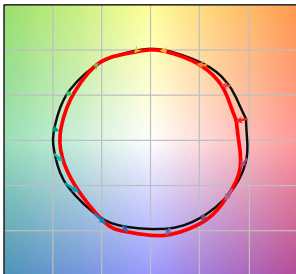
30K:



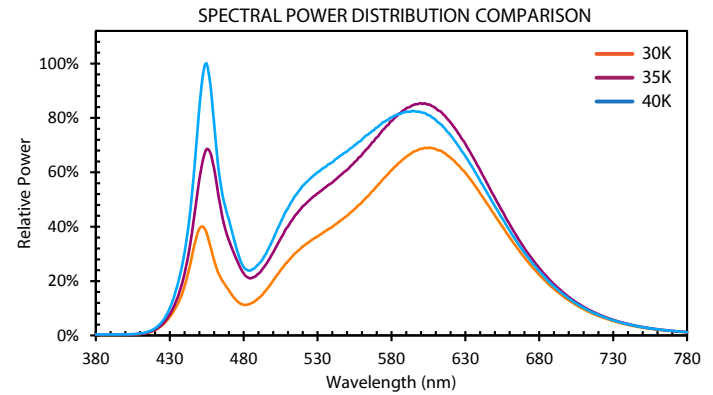
35K:



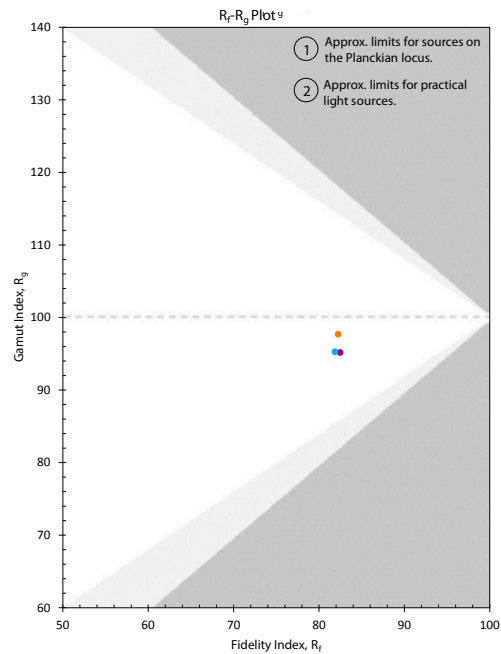
40K:



Spectral Distribution:



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 | 90 | 96 | 81 | 81 | 87 | 84 | 63 | 15 | 77 | 80 | 69 | 84 | 98 |
| 35K | 84 | 83 | 92 | 96 | 81 | 82 | 88 | 85 | 64 | 17 | 79 | 80 | 66 | 85 | 98 |
| 40K | 84 | 83 | 91 | 95 | 82 | 82 | 86 | 87 | 68 | 20 | 76 | 80 | 60 | 85 | 97 |

SAE 101

LINEAR PENDANT INDIRECT/DIRECT SAE 101

Photometry

Fixture: SAE101-P-ID-4-SOF-C1-30K-I040-D050-D01-1C-UNV-W1

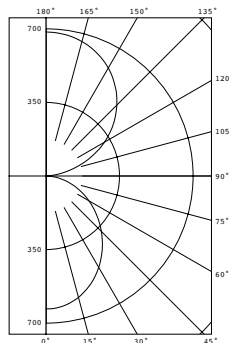
CCT: 3000K

Output: I040/D050

Nominal lumens: 900 lumens

Efficacy: 140 lm/W

Test report: 17.00937



Zonal Lumen Summary

| Zone | Lumens | Lamp% |
|--------|--------|--------|
| 0-40 | 765 | 20.90% |
| 0-60 | 1304 | 35.60% |
| 0-90 | 1641 | 44.80% |
| 90-180 | 2024 | 55.20% |
| 0-180 | 3664 | 100.0% |