

SAE105

LINEAR PENDANT INDIRECT

FEATURES

- Up to 131 lumens/watt efficacy
- Output range from 800 to 1875 lumens/ft
- SpectraSync™ Color Tuning Technology
- Three housing options available
- 3 SDCM color variation
- 115 degree peak angle



RELATED PRODUCTS

[SAE104-W-ID](#)

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Housing - 20 gauge formed steel
- End caps - 5/16" Die-cast flat aluminum (standard)
- 5" Shelf style end caps available (ECSS)
- PF - Perforated housing provides 94% uplight and 6% downlight
- SQ - 2" square perforated housing provided 82% uplight and 18% downlight
- S - Solid housing provides 100% uplight
- Dust Cover - optional, clear acrylic

OPTICAL PERFORMANCE

- 3 SDCM color consistency
- Softglow (SOF) acrylic lens (shipped installed)

INSTALLATION

- Pendant locations at ends of rows (or individual fixtures) are 3/8" from fixture ends
- Pendant attachment allows for horizontal adjustment to "finetune" side-to-side leveling.
- 1/16" diameter field-adjustable aircraft cables
- Suspension required at every row joint
- Suspension kits ships separately
- All fixture mounting hardware prepackaged and kitted per row

INSTALLATION (CONTINUED)

- Hardware kits ships separately
- Row Joining - 10-32 machine screws and nuts (provided) are accessible without removal of any components

ELECTRICAL

- 1C (1 Circuit) Uplight and downlight switched/dimmed together
- LED boards and drivers can be accessed, removed, and replaced from installed fixture. Contact factory.
- Feed Cord - 3-wire, 7 amps max; 4-wire, 7 amps max; 5-wire, 5 amps max
- Canopy Covers - Non-feed: 2" diameter (unless 5" non-feed is specified). Feed: 5" diameter

CONTROLS

- Optional SpectraSync™ offers two modes of Tunable White solutions and integrates seamlessly into a variety of control systems
- NX Distributed Intelligence™ provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX is available in U.S., Canada and Mexico. For other locations consult factory

CERTIFICATIONS

- CSA listed for damp locations
- DesignLights Consortium (DLC) qualified with configurations DLC Premium qualified, see www.designlights.org for specific product offerings.
- 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 Act Solutions. Contact factory for configurations including NX or sensors.

WARRANTY

- LED boards - 5 years
- LED drivers (standard)- 5 years
- See www.litecontrol.com for details

KEY DATA	
Lumen Range Per Foot	800 - 1875
Wattage Range Per Foot	6.8 - 15.3
Efficacy Range (LPW)	111 - 123
Rated Life (Hours)	L70: >60,000 L90: up to 56,000

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DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ORDERING GUIDE

Example: SAE105-P-LPA-PF-2-4-C1-30K-080-D01-1C-UNV-FA1

CATALOG # _____

SAE	105	P	LPA				
Program	Series	Mounting	Uplight Distribution	Housing Style	Row Length (In Feet)	Max Length in Row	Finish/Color ²
SAE SAE Program	105 105	P Pendant	LPA Low Peak Angle	PF Perforated Housing SQ 2" Square Perforated Housing S Solid Housing	_' Enter in foot increments	4 4', 1219mm 8 8', 2438mm	C1 Matte White (Default) CC Custom Color

Color Temperature	Output/ft ⁴	Driver	1C	Voltage	Suspension Kit ⁷
30K 3000K	080 800	D01 1% Dimming, 0-10V	1C 1 Circuit	UNV Universal Voltage (120V through 277V)	FA1 Suspension Kit, 51"
35K 3500K	105 1050	D05 5% Dimming, 0-10V ⁵		347 347 Volt ^{1,6}	FA2 Suspension Kit, 87"
40K 4000K	130 1300	NDM Non-Dimming			FA3 Suspension Kit, 219"
2750T 2700K - 5000K SpectraSync™ Tunable White ³	155 1550				FA4 Suspension Kit, 363"
2765T 2700K - 6500K SpectraSync™ Tunable White ³	187 1875				

OPTIONAL

Nightlight	Emergency	Patterns	Thru-wiring	Dust Cover	End Cap-shelf Style	T-Bar Clips ¹¹
NL Nightlight Circuit Required ⁸	EF 10W Emergency Battery Pack ⁹	PTRN Contact Factory for pattern configurations. Approval drawings required.	W2 Provide Normal and Emergency/Nightlight Thru Wiring ¹⁰ W3 Provide Normal Thru Wiring Only	L1 Clear Acrylic Dust Cover Lens	ECSS End Cap, Shelf Style, 5"	CB1 T-bar clip - 15/16" CB2 T-bar clip - 9/16" CB3 T-bar clip - 9/16" SS

Control Options

NX Standalone	
NXS	NX, PIR BT Occupancy/Daylight Sensor, Slide Mount ^{12,13}
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}
NXWE	NX Wireless Wireless Enabled ^{12,13}
Sensors	
SD1	Daylight Sensor Required
SO4	Occupancy Sensor Required

Notes:

- Additional lead time may be applicable. Contact factory.
 - Visit www.litecontrol.com/finishes for details.
 - Must be ordered with D05 Driver option.
 - Choose one output.
 - Must be ordered with 2750T or 2765T options
 - Excludes Emergency Battery Option
 - Add suffix *N* to replace all 2" non-feed canopy covers with 5" canopy covers. FA1/N = 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.
 - Enter quantity. 2NL = 2 nightlight circuits/row
 - Enter quantity. 2EF = 2 Emergency batteries/row. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
 - Only applicable when specified with emergency.
 - To be ordered with Luminaire Canopy Box.
- NX In-Fixture Control Options:**
- 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:

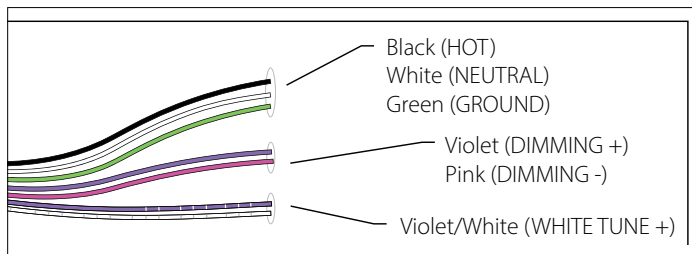
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNCH COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
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.

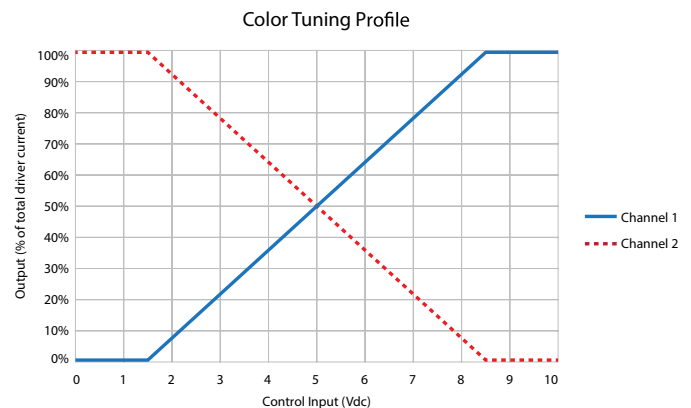


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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 NFTV 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
080	800	6.8	119
105	1050	9.5	111
130	1300	11.8	111
155	1550	13.5	115
187	1875	15.3	123

Values are averages of all distributions at 3500K. For each option, see IES files for most accurate performance measures.

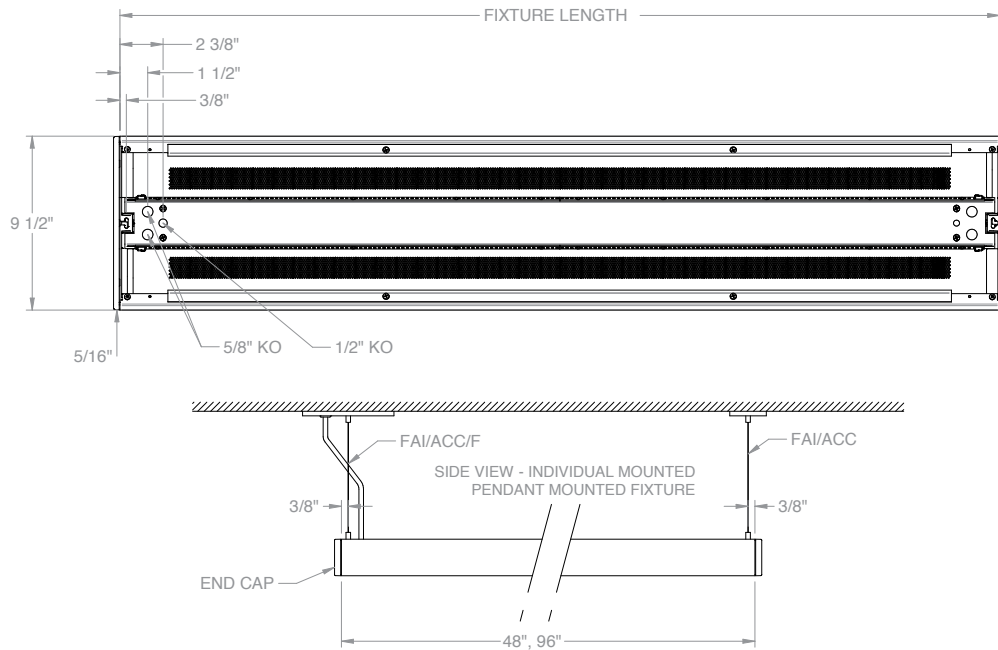
Output Multiplier Table

Photometrics for the SAE104-P 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.

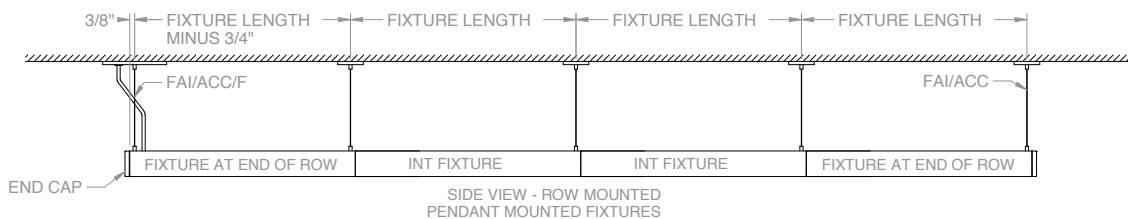
Option	3000K	3500K	4000K
Multiplier	0.97	1.00	1.01

DIMENSIONS

Individual Mounting



Row Mounting

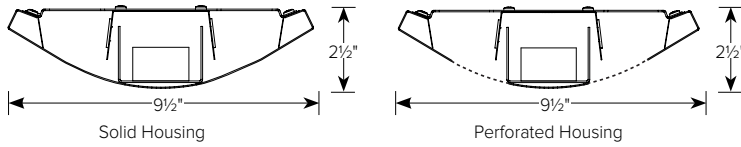


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DIMENSIONS CONTINUED

CROSS SECTION



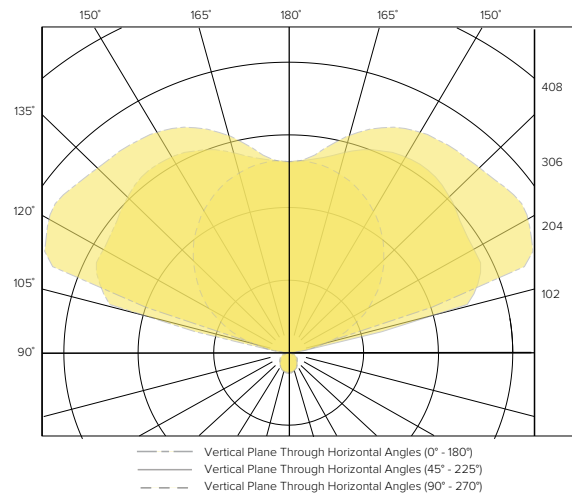
PHOTOMETRY

SAE105-P-LPA-PF-4-35K-130

LUMINAIRE DATA

Test No.	16.02449
Description	9.5" X 48" Indirect Perforated Housing
Delivered Lumens	5266
Watts	43W
Efficacy	122
Mounting	Pendant

POLAR GRAPH

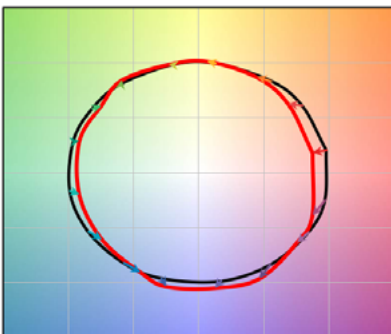


ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	124	2.4
0-60	209	4.0
0-90	271	5.2
0-180	5266	100.0

TM-30 DATA

COLOR VECTOR GRAPHIC



COLOR DISTORTION GRAPHIC



TEST RESULTS	
Value	35K
CCT (K)	3453
CIE R _a	83
D _{uv}	-0.0007
R _f	82
R _g	97
x	0.4073
y	0.3902

*Graphics shown are at 35K

— Reference Illuminant — Test Source

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DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

ADDITIONAL INFORMATION

Sensor

SD1	Daylight sensor. Installs between light guide panels.
SO4	Occupancy sensor. Installs between light guide panels.
NX	NX sensors installs between light guide panels.

See separate [LC-Controls](#) spec sheet for additional details.

Driver:

D01	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.
NDM	Non-dimming. Fixture will be wired for fixed light output.

Fixture Weight:

3 lbs/ft

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: >60,000 (reported per TM-21/LM80 6x's limitation)

L90: 56,000 (calculated per TM-21 extrapolated curve)