

SAE105

LINEAR PENDANT INDIRECT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

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



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
- 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 "fine tune" side-to-side leveling.
- 1/8" 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)

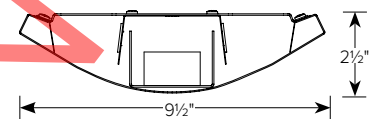
- Hardware kits ship separately
- Row Joining - 10-32 machine screws and nuts (provided) are accessible without removal of any components

ELECTRICAL

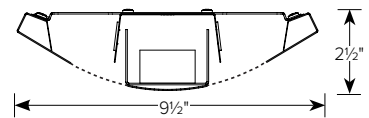
- 1C (1 Circuit) Uplight and downlight switched/dimmed together
- LED boards and drivers can be accessed, removed, and replaced from installed fixture. Contact factory.
- Feed Cord - 4-wire, 7 amps max; 5-wire, 5 amps max
- Canopy Covers - Non-feed: 2" diameter (unless 5" non-feed is specified). Feed: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

CONTROLS

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



Solid Housing



Perforated Housing

Cross Sections

	Weight
105-P-I	3 lbs/ft

CERTIFICATIONS

- CSA listed for damp locations
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See [Buy America\(n\) Solutions](#).
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.

WARRANTY

- LED boards - 5 years
- LED drivers (standard)- 5 years

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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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 S Solid Housing	' Enter in foot increments	4 4', 1219mm 8 8', 2438mm	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	Output/ft ⁴	Driver	1C Circuiting	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			FA2 Suspension Kit, 87"
40K 4000K	130 1300	NDM Non-Dimming			FA3 Suspension Kit, 219"
2750T 2700K - 5000K SpectraSync™ Tunable White ³	155 1550			347 347 Volt ^{1,6}	FA4 Suspension Kit, 363"
2765T 2700K - 6500K SpectraSync™ Tunable White ³	187 1875				

OPTIONAL

Nightlight	Emergency	Thru-wiring	Dust Cover	End Cap-shelf Style	T-Bar Clips ¹¹
NL Nightlight Circuit Required ⁸	EF 10W Emergency Battery Pack (CEC Title 20 Compliant) ⁹	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 Networked – Wired

NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor ¹²
NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming ¹²

NX Networked – Wireless

NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming ¹²
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor ¹²

Sensors

SD1	Daylight Sensor Required
SO4	Occupancy Sensor Required






Notes:

- 1 Additional lead time may be applicable. Contact factory.
 - 2 Visit currentlighting.com/litecontrol for details.
 - 3 Must be ordered with D05 Driver option.
 - 4 Choose one output.
 - 5 Must be ordered with 2750T or 2765T options
 - 6 Excludes Emergency Battery Option
 - 7 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.
 - 8 Enter quantity. 2NL = 2 nightlight circuits/row
 - 9 Enter quantity. 2EF = 2 Emergency batteries/row. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
 - 10 Only applicable when specified with emergency.
 - 11 To be ordered with Luminaire Canopy Box.
- NX In-Fixture Control Options:**
- 12 Refer to NX Integrated Controls Reference Table for Functionality of Options

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CONTROLS OPTIONS AND FUNCTIONALITY



Control Option Ordering Logic & Description			Control Option Functionality										Control Option Components	
			Sensor	Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth® App Programming	Sensor Height		
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	N/A	✓	✓	✓	-	-	✓	✓	Requires NXBTC dongle ¹	-	 NXDSP	
	NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓		Max: 12'	  NXDSP	
NX Wireless	NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓		Max: 12'	 NXSMP2-LMI	
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	✓	✓	✓	-	-	✓	✓		-	 NXRM2-H	

1 NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

NX Connect App



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.



Apple iOS

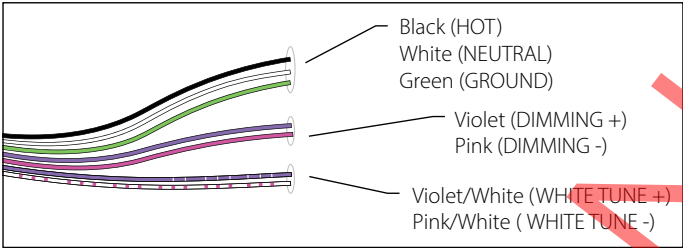
CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

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.



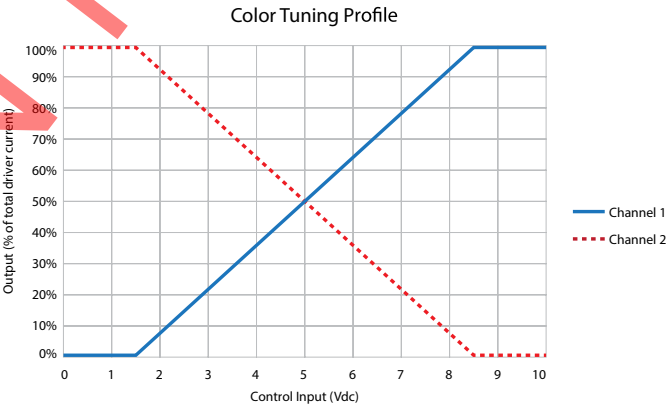
Table with 3 columns: Mode, Kelvin Range, Description. Rows include Tunable White and Scheduled White.

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 pink/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:
- Current: NX Lighting Controls Room Controllers (NXRCFX2) and In-fixture Controllers (NXFM2)
 - 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.

Table with 4 columns: Nomenclature, Lumens/ft, W/ft, Efficacy. Rows include 080, 105, 130, 155, 187.

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.

Table with 4 columns: Option, 3000K, 3500K, 4000K. Row for Multiplier shows values 0.97, 1.00, 1.01.

DIMENSIONS



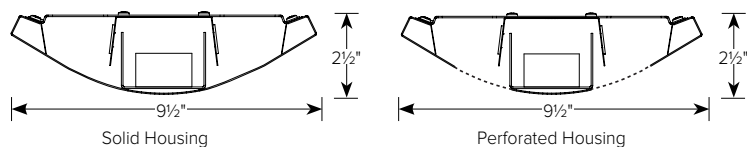
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DIMENSIONS CONTINUED

CROSS SECTION



PHOTOMETRY

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

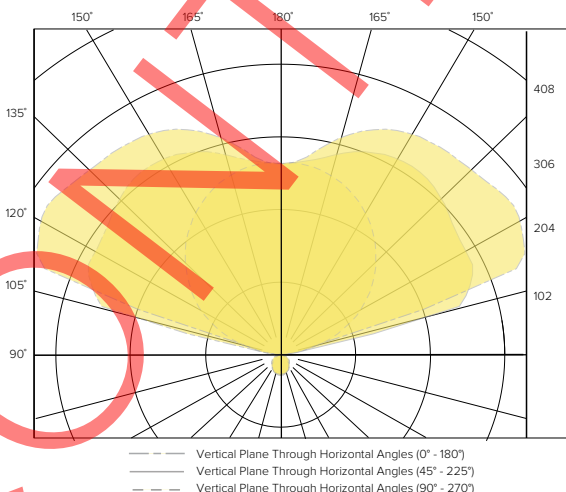
LUMINAIRE DATA

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

ZONAL LUMEN SUMMARY

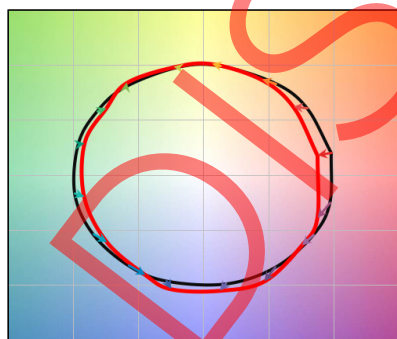
Zone	Lumens	% Luminaire
0-40	124	2.4
0-60	209	4.0
0-90	271	5.2
0-180	5266	100.0

POLAR GRAPH

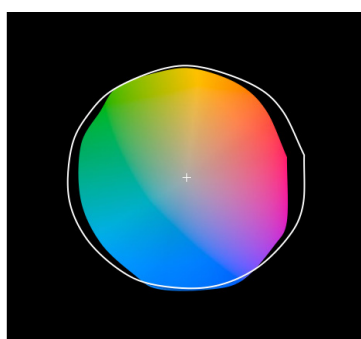


TM-30 DATA

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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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)