

FEATURES

- Versatile, recessed, direct enclosed troffer
- Vi Technology for specifiable output/wattage
- Diffuser is a high efficiency one piece extruded acrylic lens
- Dropped center channel for excellent source diffuser
- Available in 2' x 2', 2' x 4' and 1' x 4' sizes
- SpectraSync[™] Color Tuning Technology available
- NX Distributed Intelligence $\ensuremath{^{\scriptscriptstyle M}}$ wired and wireless controls capability available

• PowerHUBB[™] PoE Lighting and Control options available



CONTROL TECHNOLOGY

SpectraSync

SPECIFICATIONS

CONSTRUCTION

- · Housing: die-formed steel
- Wiring access plate on top of housing for flexible conduit attachment
- Reflectors: High-reflectance prepaint matte
 white steel

OPTICAL PERFORMANCE

- 3 SDCM color consistency, 80 CRI
- High-efficiency one-piece extruded acrylic lens
- Dropped center channel for excellent source diffusion

INSTALLATION

- Intended for installation in exposed, inverted T-bar grid ceiling and drywall
- Drywall option ships with frame kit to be installed in ceiling prior to fixture install
- Holes in housing provided for wire-on-chain mounting support to building structure

ELECTRICAL

- Flex Whip: 3%" flex conduit. 6' length. 90° connector on fixture end. 18 gauge wiring.
- LED boards and drivers can be accessed and removed from below fixture, while installed
- LED boards can be replaced individually

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

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	





RELATED PRODUCTS

8

8 VORA 50L

Litewave LFH LED Recessed Troffer

CERTIFICATIONS

- CSA listed for damp locations
- IBEW
- AF of L
- IC rated
- 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 <u>Buy American Act Solutions</u>. Contact factory for configurations including NX or sensors.

WARRANTY

- LED boards 5 years
- LED drivers (standard) 5 years
- LED drivers (Lutron) 3 years
- See <u>www.litecontrol.com</u> for details

KEY DATA						
Lumen Range	1,700 - 6,100					
Wattage Range	12.7 - 42.9					
Efficacy Range (LPW)	127 - 148					
Rated Life (Hours)	L70: >60,000 L90: up to 91,000					





ORDERING GUIDE

CATALOG #

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #·	

NX, PIR BT Occupancy/Daylight Sensor, Slide Mount ^{1,8,9}

NX Wireless, PIR BT Occupancy/Daylight Sensor ^{1, 8, 9}

NX, PIR BT Occupancy/Daylight Sensor, Slide Mount, Dual SmartPORTs ^{1,8,9}

NX Wireless, PIR BT Occupancy/Daylight Sensor, Dual SmartPORTs ^{1,8,9}

NX, Dual SmartPorts ^{1, 8, 9}

NX Wireless Wireless Enabled ^{1, 8, 9}

NX Wireless, Dual Smart Ports 1, 8, 9

0-10V Wireless RF Fixture Module 9, 10

Daylight Sensor Required 1

Occupancy Sensor Required 1

Example: SAE301-G-D-22-SGL-C1-35K-D17-D01-UNV

SAE		301		-			_			-			_			_		
Progr	am	Serie	s		Ceilin	ід Туре		Dis	tribution		Size	2		Diffus	er		Finish	/Color ⁶
SAE	SAE	301	301 LED		G	¹⁵ /16" Grid Ceiling		D	Direct		14	1' x 4' Fixture		SGL	Soft Glow Lens		C1	Matte White
	Program		Recessed Troffer		NG	%6" Narrow Face Grid Ceiling					22	2' x 2' Fixture						
			noner		ss	%6" Screw Slot Grid Ceiling					24	2' x 4' Fixture						
					DW	Drywall Ceiling												

		-			-			-	
Color ter	nperature		Output ⁴			Driver		Vol	age
30K	3000K	1	D17 (min)	1700		D01	1% Dimming, 0-10V	UN	 Universal Voltage (120V
85K	3500K		to			D00	1% Dim-to-Off, 0-10V		through 277V)
юк	4000K		D61 (max)	6100		D05	5% Dimming, 0-10V ³	347	347 Volt ^{1, 5}
2750T	2700K - 5000K SpectraSync™ Tunable White ²					DS1	1% Dimming w/ Soft Start, 0-10V		
2765T	2700K - 6500K SpectraSync™ Tunable White ²					DS0	1% Dim-to-Off w/ Soft Start, 0-10V		
						DALI	DALI 1		
						DALIP	Powered DALI (2.0) ¹		
						NDM	Non-Dimming		

LV

Sensors SD1

SO1

OPTIONAL

EF 10W

	_			_	-			
ergency		Chicag	o Environmental Air Modification		Flex Whi	p	Control Option	hs
10W	1	CCEA	Chicago Environmental Air		FW	Flex Whip	NX Standalon	e
Emergency			Modification		FWC	Flex Whip	NXS	NX, PIR BT Occupa
Battery Pack ⁷						Field-installed	NX Networke	d – Wired
TUCK					FWPR	Flex Whip,	NXE	NX, Dual SmartPorts
						Plenum Rated (for CCEA	NXES	NX, PIR BT Occupar
						only)	NX Networke	d – Wireless
					FWPRC	Flex Whip,	NXSW	NX Wireless, PIR BT
						Plenum Rated	NXWE	NX Wireless Wireles
						(for CCEA only) Field-	NX Networke	d – Wired/Wireless
						installed	NXSWD	NX Wireless, PIR BT
							NXWD	NX Wireless, Dual S
							Lutron Vive	

Notes:

- Additional lead time may be applicable. Contact factory. 1
- 2 Must be ordered with D05 Driver option.
- Must be ordered with 2750T or 2765T option 3
- Specifiable in 100 lumen/fxt increments. Reference the Performance Data Table for full performance offering and exceptions. 4
- Excludes Emergency Battery Pack 'EF' Option. Excludes DALI and DALIP Dimming Drivers. 5
- 6 Visit www.litecontrol.com/finishes for details.
- Enter quantity. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others. 7

NX In-Fixture Control Options:

- Not available for row mounting; Only available with 0-10V Driver options; Contact factory for length restrictions
- Refer to NX Integrated Controls Reference Table on page 3 for Functionality of Options. 8

Third-Party Control Options:

- 9 Excludes Ceiling type 'DW' option.
- 10 Registered trademark of Daintree Networks, used by permission.





LOCATION: DATE: PROJECT: TYPE:

CATALOG #:

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.

DISTRIBUTED[®]

			NX II	NTEGRATED C	CONTROLS R	EFERENCE	·	
NX Option	Sensor	Networkable	Scheduling	Occupancy	Daylight Harvesting	0–10V Dimming	On/off Control	Bluetooth® App Programming
NX Standalone	<u>5</u>							
NXS	NXSMP-SMI	No	Yes	Yes	Yes	Yes	Yes	Yes
NX Networked	I – 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	I – 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	I – Wired/Wireles	<u>ss</u>						
NXSWD	NXSMP-SMI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NXWD	N/A	Yes	Yes	No	No	Yes	Yes	Requires NXBTC/R ^{1,3}

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

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:

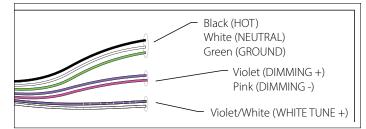
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



	SPECTRASYNC COLOR TUNING TECHNOLOGY							
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.

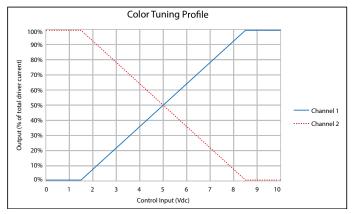


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



8 NX Brochure

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LITECONTROL making light work"	
SAE301	

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

LED RECESSED TROFFER

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/Fix	2	x2	2	x4	1x4		
		W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy	
D17 (min)	1700*	12.7	134	n/a	n/a	n/a	n/a	
D18	1800*	13.3	135	n/a	n/a	n/a	n/a	
D19	1900**	14.0	136	n/a	n/a	14.0	136	
D20	2000	14.7	136	13.9	144	14.6	137	
D21	2100	15.3	137	14.5	145	15.3	137	
D22	2200	16.0	137	15.1	146	16.0	138	
D23	2300	16.7	137	15.7	146	16.7	138	
D24	2400	17.4	138	16.4	147	17.4	138	
D25	2500	18.2	138	17.0	147	18.0	139	
D26	2600	18.9	138	17.7	147	18.7	139	
D27	2700	19.6	138	18.3	147	19.4	139	
D28	2800	20.4	138	19.0	148	20.1	139	
D29	2900	21.1	137	19.6	148	20.8	139	
D30	3000	21.9	137	20.3	148	21.6	139	
D31	3100	22.6	137	20.9	148	22.3	139	
D32	3200	23.4	137	21.6	148	23.0	139	
D33	3300	24.2	136	22.3	148	23.7	139	
D34	3400	25.0	136	23.0	148	24.5	139	
D35	3500	25.8	136	23.6	148	25.2	139	
D36	3600	26.6	135	24.3	148	25.9	139	
D37	3700	27.4	135	25.0	148	26.7	139	
D38	3800	28.2	135	25.7	148	27.4	139	
D39	3900	29.1	134	26.4	148	28.2	138	
D40	4000	29.9	134	27.1	148	28.9	138	
D41	4100	30.8	133	27.8	147	29.7	138	
D42	4200	31.6	133	28.5	147	30.5	138	
D43	4300	32.5	132	29.3	147	31.2	138	
D44	4400	33.4	132	30.0	147	32.0	137	
D45	4500	34.3	131	30.7	147	32.8	137	
D46	4600	35.2	131	31.4	146	33.6	137	
D47	4700	36.1	130	32.2	146	34.4	137	
D48	4800	37.0	130	32.9	146	35.2	136	
D49	4900	38.0	129	33.6	146	36.0	136	
D50	5000***	n/a	n/a	34.4	145	36.8	136	
D51	5100***	n/a	n/a	35.1	145	37.6	136	
D52	5200***	n/a	n/a	35.9	145	38.4	135	
D53	5300****	n/a	n/a	36.7	145	n/a	n/a	
D54	5400****	n/a	n/a	37.4	144	n/a	n/a	
D55	5500****	n/a	n/a	38.2	144	n/a	n/a	
D56	5600****	n/a	n/a	39.0	144	n/a	n/a	
D57	5700****	n/a	n/a	39.7	143	n/a	n/a	
D58	5800****	n/a	n/a	40.5	143	n/a	n/a	
D59	5900****	n/a	n/a	41.3	143	n/a	n/a	
D60	6000****	n/a	n/a	42.1	142	n/a	n/a	
D61 (max)	6100****	n/a	n/a	42.9	142	n/a	n/a	



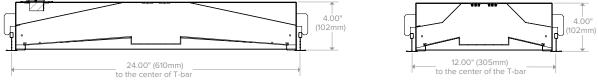


DATE: LOCATION: TYPE: PROJECT: CATALOG #:

DIMENSIONS

Grid Mounting Options









LOCATION: DATE: TYPE: PROJECT: CATALOG #:

PHOTOMETRY

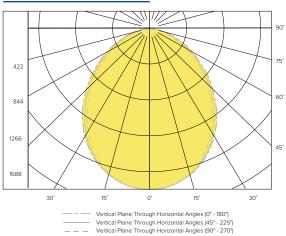
SAE301-G-D-22-SGL-C1-35K-D38-D01-UNV

LUMINAIRE DATA

Test No.	20.00243
Description	2'x2' Recessed Architectural Troffer
Delivered Lumens	3775
Watts	29W
Efficacy	132.3
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1860	49.3
0-60	3101	82.1
0-90	3775	100.0
0–180	3775	100.0



SAE301-G-D-24-SGL-C1-35K-D46-D01-UNV

LUMINAIRE DATA

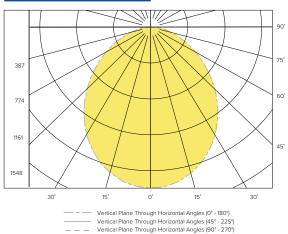
Test No.	20.00248
Description	2' x 4' Recessed Architectural Troffer
Delivered Lumens	4589
Watts	31W
Efficacy	146.1
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens % Luminaire			
0-40	2224	48.5		
0-60	3746	81.6		
0-90	4589	100.0		
0–180	4589	100.0		

POLAR GRAPH

POLAR GRAPH



SAE301-G-D-14-SGL-C1-35K-D39-D01-UNV

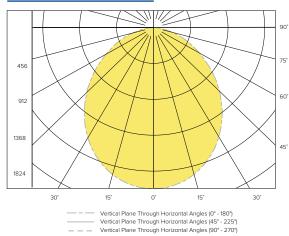
LUMINAIRE DATA

Test No.	20.00252
Description	1' x 4' Recessed Architectural Troffer
Delivered Lumens	3902
Watts	28W
Efficacy	137.2
Mounting	Recessed

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-40	1998	51.2
0–60	3261	83.6
0–90	3902	100.0
0–180	3902	100.0

POLAR GRAPH







DATE:	LOCATION:	
TYPE:	PROJECT:	
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TM-30 DATA

	Ra	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14
3000K	83	82	92	96	81	83	90	83	60	10	81	81	76	84	98
3500K	83	90	90	95	83	83	86	86	67	21	77	81	70	84	98
4000K	83	90	95	84	83	86	87	87	67	15	76	83	68	84	97

*Graphics shown for 80 CRI

ADDITIONAL INFORMATION

Output (VI Technology):

Variable Intensity (VI) technology allows precise specification of fixture output/wattage. Fixture will be programmed and labeled to specification. See Performance Data Table section for available increments.

<u>Sensor</u>

SD1	Daylight sensor. Installs between light guide panels.
SO1	Occupancy sensor. Installs between light guide panels.
NX	NX sensors installs between light guide panels.
LV	Lutron Vive 0-10V Wireless RF Fixture Module for 1A 0-10V

See separate <u>LC-Controls</u> spec sheet for additional details.

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.
DALI	DALI compatible.
DALIP	Self-Powered DALI bus (e.g. SR, DEXAL)
NDM	Non-dimming. Fixture will be wired for fixed light output.





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ADDITIONAL INFORMATION CONTINUED

Fixture Weight: 17.5 lbs (2x2)

Rated Life (LED Board):

Tested in accordance to LM79-2008 L70 calculated (per TM-21 extrapolated curve): $\leq 4200 \text{ Im}= 340,000 \text{ hours}$ > 4200 Im= 96,000 hours L70 reported (per TM-21/LM80 6x's limitation: > 60,000 hours L90 calculated (per TM-21 extrapolated curve): $\leq 4200 \text{ Im}=91,000 \text{ hours}$ >4200 Im= 27,000 hours

Rated Life: Standard: 100,000 hours

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