

LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

1' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

FEATURES

- · Light weight, low profile construction for crowded ceilings and shallow
- High lumen outputs for expanded mounting height options
- High efficiency, low glare center lens delivers comfortable illumination
- · Discreetly integrated control options drive energy efficiency and code
- · Appropriate for offices, schools, medical, and public spaces
- · LED modules accessible from below, electrical accessible from the





















Typical Dimensions and Weights (B) Width (C) Height Weight Sizes Inches (mm) Inches (mm) Inches (mm) lbs (kg) 1x4 47.74 (1213) 11.73 (298) 2.3 (58) 9 (4.1)

CONTROLS TECHNOLOGY













SPECIFICATIONS

CONSTRUCTION

- · Luminaire housing, reflectors and end caps are die-formed code-gauge cold-rolled steel
- · All reflective surfaces are finished after fabrication with unique formula highreflectivity matte white paint for soft, uniform indirect illumination

OPTICS

- Removable lens for easy access to LED module
- · High transmission extruded acrylic enclosed lens features linear prisms with custom frost for high efficacy without pixelation

INSTALLATION

- · An access plate is furnished with each luminaire for fast wiring access without the necessity to open the fixture or wireway
- · Luminaire fits recessed exposed Grid ceilings (G); four integral NEC compliant T-bar clips are standard
- · Can be placed in Slot Grid (SG) style ceiling with regress 3/8" above ceiling plane
- · A Flange Kit (FK) accessory is available for recessed hard ceiling applications
- · Surface Mount (SM) option allows placement below ceiling plane
- Cable Mount (CM) option allows suspension below ceiling plane

ELECTRICAL

- 66,000 hour LEDs at L80 for reduced maintenance
- 80 CRI standard or optional 90 CRI for color sensitive applications

CONTROLS

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- · NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices.
- Optional SpectraSync™ Color Tuning Technology offers a Tunable White solution and integrates seamlessly into a variety of control systems

CERTIFICATIONS

- IC label is standard for recessed products. Note that IC label is void if product is installed on site with a combination of both battery pack plus through wiring
- · All luminaires are built to UL1598 standards, and bear appropriate cCSAus labels
- 0° to 25°C when integrated batteries are
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options

CERTIFICATIONS (CONTINUED)

- · Emergency battery back options are California Energy Commission (CEC) Title 20 Compliant
- · Damp Location label standard, Wet Location option available
- · UL Sanitation certified to NSF standards
- · Adheres to LM79, LM80, and TM21 industry standards
- Optional ISO5, tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms
- · DLC® (DesignLights Consortium) Qualified, Please refer to the DLC website for specific product qualifications at www.designlights.org
- · The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924.
- · For -BAA Option: This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9). See Buy America(n) Solutions
- · Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions

WARRANTY

5 vear warrantv





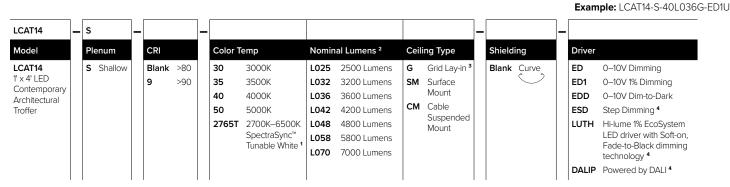


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ORDERING GUIDE



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		_								
Voltage Options					Control Options 12					
U	120-277V	ELL14	Emergency Battery Pack (CEC Title	NX Lightii	ng Controls					
347	347V		20 Compliant) Installed ^{4, 5, 6, 7}	Networked	<u>Wireless</u>					
		ELL14ST	Emergency Battery Pack (CEC Title 20 Compliant), 1400 4, 5, 6,7	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor 13,14,15					
		ELL14H2	ELL14H2 Emergency Battery Pack (CEC Title	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming 15,15					
		DTS	Dimming Bypass Modulo 4,6,7,9	Networked						
		C388	3-wire Flex	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor ^{13, 14, 15}					
		C488	4-wire Flex	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ^{18, 14, 15}					
		C588	5-wire Flex	Independer	nt Control					
		GLR	Fast Blow Fuse	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor 4, 16, 17, 18, 19					
		СР	Chicago Plenum ¹⁰	Other						
		WL	Wet Location 10,11	Networked	<u>Wireless</u>					
		BAA	Buy American Act (FAR 52.225-9)	LVR	Lutron Vive Integral Fixture Control DFCSJ-OEM-RF (RF only) 4,18,19,20					
			Compliant	LVS	Lutron Vive Integral Fixture Control DFCSJ-OEM-OCC with Daylight and Occupancy Sensing 4,18,19,20					
		ISO5	ISO5 Certified ¹¹	AWNR	Lutron Athena Integral Fixture Control A-WN-D01-RF-WH (RF only) 4,18,19,21					
		LVC	Low Voltage Controller ¹⁵	AWNS	Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing 4,18,19					
				Independer	nt Control					
		' '		ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 4, 18, 19					

Accessories

Notes

FK14 1' × 4' Single Flange Kit (Shipped separately)

CM48YSC5F-KIT 48" Cable Mount Kit for Cable Mount fixtures, 5-wire

- 1 Available with ED and 80 CRI only
- 2 Refer to performance tables for exact values and available lumen outputs for fixture size
- 3 For drywall, order G with flange kit accessory
- 4 Not available in 347V
- 5 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
- 6 Not available with L070 lumen package
- 7 For compatibility with Dual-Lite Litegear inverters, contact lighting representative
- 8 Not available for use in Canada
- 9 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. Only available with 0-10V drivers. See wiring diagram.
- 10 Not available with CM or SM ceiling types
- 11 Not available with Emergency Battery Pack or Control Options

All Controls

12 Minimum ambient temperature: 0C (32F)

NX Lighting Controls

- 13 NX combined with SpectraSync is not available in 347V
- 14 Not compatible with SM ceiling type or Surface Mount Kit
- 15 Available with ED, ED1 or EDD drivers only
- 16 NX Connect devices can be configured using the NX Connect Mobile App, available in the Apple App Store
- 17 NX Connect devices are not compatible with NX Networked Wireless or Wired Options

Other

- 18 Not available with SpectraSync
- 19 Only available with DALIP driver option
- 20 Vive is a trademark of Lutron Electronics Co., Inc.
- 21 When installing in a hard ceiling application room side mounting is suggested, please consult factory







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DELIVERED LUMENS

Lumen Package	Color	Lumens	Input Watts	LPW
	3000K	2528		151
L025	3500K	2571	16.8	153
LU25	4000K	2615	10.8	156
	5000K	2615		156
	3000K	3194		150
L032	3500K	3249	21.3	153
LU32	4000K	3304	21.5	155
	5000K	3304		155
	3000K	3591		148
L036	3500K	3653	24.2	151
LU36	4000K	3715	24.2	153
	5000K	3715		153
	3000K	4189		147
L042	3500K	4262	28.5	150
L042	4000K	4334	28.5	152
	5000K	4334		152

Lumen Package	Color	Lumens	Input Watts	LPW
	3000K	4772		150
L048	3500K	4854	31.8	153
LU48	4000K	4937	31.8	155
	5000K	4937		155
	3000K	5760		148
L058	3500K	5859	38.9	150
LU56	4000K	5959	30.9	153
	5000K	5959		153
	3000K	6928		150
L070	3500K	7048	461	153
1070	4000K	7167	46.1	156
	5000K	7167		156

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.93	0.87	0.85
TM-21-22	25C/77F	0.93	0.86	0.83

^{*}Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.



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NX LIGHTING CONTROLS



					Control Option Functionality							
	Control Option Ordering Logic & Description			Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Control	Option Components
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	√	✓	√	-	-	/	√	√	8	NXRM2-H
NX Wireless	NXWSM	NX Networked Wireless Enabled Integral NXSMP2- SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	\	✓	✓	\	✓	✓	√	•	NXSMP2-SMI
	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	√	✓	√	-	-	/	✓	√ ₁	20	NXDSP
NX Wired	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	>	✓	✓	✓	>	✓	✓	•	NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	-	>	-	✓	✓	>	✓	$\sqrt{_2}$	0	NXC-WIZ20

¹ Requires NXBTC, order separately.

DEFAULT SETTINGS

	Occupancy Sensor	Enabled	
	Occupancy Sensor Sensitivity	7 Minutes	
8	Occupancy Sensor Timeout	15 Minutes	
Xi	Occupied Dim Level	100%	
SS &	Unoccupied Dim Level	0% (OFF)	
NX Wirelss & Wired	Daylight Sensor	Disabled	
	Bluetooth	Enabled	
_	2.4GHz Wireless Mesh	Off	
	Passcode Factory Passcode: HubbN3T!	Enabled	
	,		

	Settling/Dwell Time	5 sec		
	Hold Time	10 min		
+:	Group Hold Time	10 min		
Juec	Grace Time	-		
Ö	Strategy	Auto ON/OFF		
ž	Occupancy Sensitivity	5 (highest)		
NX Independent - NX Connect	Occupancy Indicator	ON		
end	Partial Off/Standby	0%		
deb	Background Level	50%		
Α̈́	Task Level	100%		
2	Daylight Harvesting	-		
	Low Ambient Output	250%		
	High Ambient Output	OFF		

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



² Requires use of NX Connect App available for download from Apple app store.





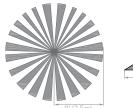
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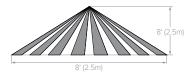
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COVERAGE PATTERNS

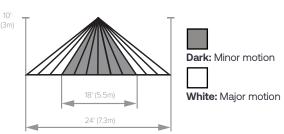
NXWSM/NXESM (NXSMP2-SMI SENSOR)





NXCS (NXC-WIZ20 SENSOR)

CATALOG #:



PIR sensor coverage tested as defined in NEMA WD7-2011

OTHER LIGHTING CONTROLS

					Control Option Functionality							
	Control Option Ordering Logic & Description		Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Control (Option Components
	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.	-	✓	-	✓	✓	>	>	√ ₃	0	SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs. 2	√	✓	✓	_	_	-	✓	-	0	DFCSJ-OEM-RF
Other	LVS		√	✓	✓	✓	✓	-	✓	-	0 0	DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF)	√	✓	-	-	-	√	✓	-		A-WN-D01-RF-WH
	AWNS	device that enables simple, digital control of individual light fixtures in an Athena control system. ³		✓	✓	✓	✓	✓	✓	-	Andrew Andrews	A-WN-D01-OCC-WH

- 1 Philips MasterConnect App required for field configuration.
- 2 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.
- 3 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

Philips EasySense Controls (ODPG option) & Accessories:

- Occupancy sensing, daylight harvesting, task tuning and grouping in one device
- Standalone control or grouping to wireless switches¹
- Uses Philips field apps for on site commissioning²
- Ability to create scenes for various room configurations
- Cost-effective solution for energy-savings and code-compliancy strategies
- DLC® Qualified: Listed on the QPL for Networked Lighting Controls. Please refer to the DLC website for specific product qualifications at www.designlights.org
- 1 Wireless switches only compatible with ODPG Philips EasySense
- 2 Requires android device or IR dongle.

To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.



All values are design or typical values when measured under laboratory conditions.



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SPECTRASYNC™ COLOR TUNING TECHNOLOGY:

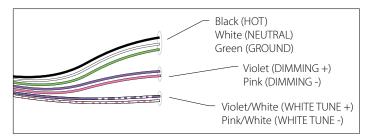
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASYNC COLOR TUNING TECHNOLOGY					
Mode	Kelvin Range	Description			
Tunable White	2700K-6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space			

SpectraSync Tunable White

Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

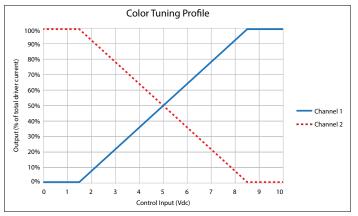


SpectraSync Tunable White luminaires are provided with two 0-10V circuits. The violet and pink circuit is for wiring to any qualified 0-10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0-10V controller for Tunable White CCT control.

Controller Manufacturer Data

SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:

- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- · Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers



To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

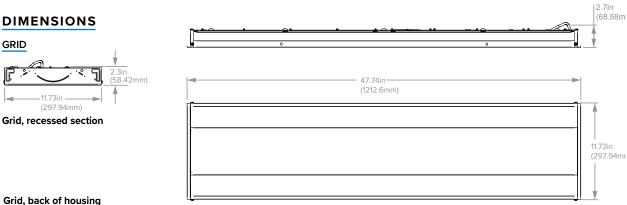


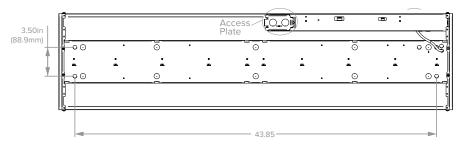


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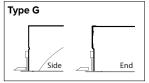
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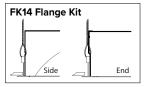




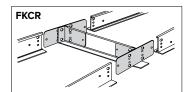
CEILING COMPATIBILITY



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.



For hard ceiling applications, order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

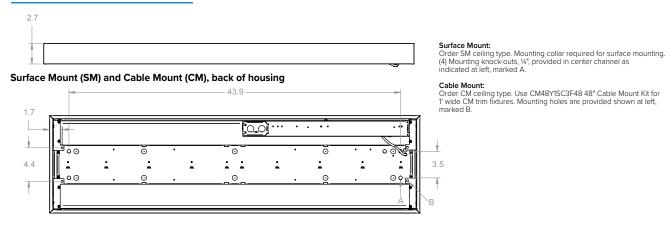


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two cords: (2) EK14 & (1) EKCP.) two, order (2) FK14 & (1) FKCR)

Row cut out dimensions using FK14s & FKCR adapters: Width 12%", Length [48" \times (# in row)] + %". Example: (48" \times 2) + 3/8" = 96%"

Flange kit cut out dimension for single unit only: 123/8" × 483/8"

SURFACE MOUNT OR CABLE MOUNT





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PHOTOMETRY

LCAT14-S-30L070G

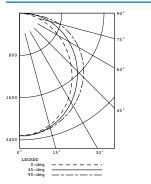
LUMINAIRE DATA

Test No.	P22.01071
Description	1 x 4 Architectural Troffer w/ Curved Frosted Acrylic Lens
Delivered Lumens	6996
Watts	55.0
Efficacy	126.7
Mounting	Recessed
Spacing Criterion	0° = 1.19 90° = 1.31

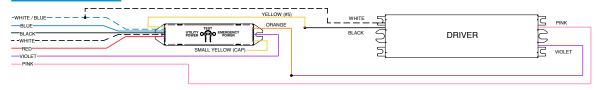
ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1795	25.8
0-40	2936	42.1
0-60	5236	75.2
0-90	6967	100
0–180	6967	100

POLAR GRAPH



DTS WIRING DIAGRAM (0-10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.