

LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

FEATURES

- · Light weight, low profile construction for crowded ceilings and shallow plenums
- · 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 compliance
- · Appropriate for offices, schools, medical, and public spaces
- LED modules accessible from below, electrical accessible from the plenum























SERVICE PROGRAMS



Typical Dimensions and Weights									
Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)					
2x4	47.72 (1212)	23.77 (604)	2.25 (57)	14 (6.4)					

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 high-reflectivity 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 T-bar clips with holes for seismic wires 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
- 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.
- 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 selected
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- Emergency battery pack options are California Energy Commission (CEC) Title 20 Compliant

CERTIFICATIONS (CONTINUED)

- Damp Location label standard, Wet Location option available
- · UL Sanitation certified to NSF standards
- · Adheres to LM79, LM80, and TM21 industry standards
- 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
- 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
- · The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924.

WARRANTY

· 5 year warranty





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2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

Gray Shading = Service Program
Limit of 250 Luminaries



ORDERING GUIDE

																	Examp	le: LCAT24-S-40L070G-EDU						
LCAT24	-	s _	-[_							_[_								
Model		Plenum		CRI			Color T	emp	Nomi	nal Lumens ³	Ceil	ng Type		Shield	ing		Driver							
LCAT24		S Shallow		Blank	>80		30	3000K	L032	3200 Lumens	G	Grid Lay-in 4		Blank	Curve		ED	0–10V Dimming						
2' x 4' LED			g	9	>90		35	3500K	L036	3600 Lumens	SM	Surface					ED1	0-10V 1% Dimming						
Contemporary Architectural							40	4000K	L042	4200 Lumens		Mount		CRG	Curve		EDD	0-10V Dim to Off						
Troffer							50	5000K	5000K L048 4800 Lume	4800 Lumens	СМ	Cable Suspended			Reduced Glare		ESD	Step Dimming 5						
										2765T	2700K-6500K	L058	5800 Lumens		Mount				LUTH	Hi-lume 1% EcoSystem				
																			SpectraSync™ Tunable White 1,2	L070	7000 Lumens			
								runable write	L085	8500 Lumens								technology 5						
									L097	9700 Lumens							DALIP	Powered by DALI 5						
									L120	12000 Lumens								,						
									L130	13000 Lumens														
									L140	14000 Lumens														

Photocell and Bluetooth Programming 14, 16 Photocell and Bluetooth Programming 14, 16 Networked Wired NXE NX Wired Dual RJ45 SmartPORTS, without Sensor 14, 15, 16 NXE NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Auto Dimming Photocell and Bluetooth Programming 14, 15, 16 NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy SMI PIR Occupancy SMI PIR Occupancy SMI PIR												
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				ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 5, 19, 20							

Accessories								
FK24	2' × 4' Single Flange Kit (Shipped separately)							
CM48Y2SC3F-KIT	48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3-wire							

Notes:

- Available with ED and 80 CRI only
- Not available with L097 and higher lumen packages
- 3 Refer to performance tables for exact values and available lumen outputs for fixture size
- 4 For drywall, order G with flange kit accessory
- Not available in 347V
- To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture 6 lumens per watt (LPW)
- Not available with L130 or L140 lumen packages
- For compatibility with Dual-Lite Litegear inverters, contact lighting representative 8
- Not available for use in Canada
- For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. Only available with 0-10V drivers. See wiring diagram.
- Not available with CM or SM ceiling types
- Not available with Emergency Battery Pack or Control Options

All Controls

13 Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls

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

Other Lighting Controls Options

- 19 Not available with SpectraSync
- 20 Only available with DALIP driver option
- 21 Vive is a trademark of Lutron Electronics Co., Inc.
- 22 Not available with L140 lumen package





2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

DELIVERED LUMENS

Lumen Package	Color	Lumens	Input Watts	LPW
	3000K	3156		130
L032	3500K	3235	24.2	134
LU32	4000K	3289	24.2	136
	5000K	3289		136
	3000K	3742		131
L036	3500K	3836	28.5	135
1036	4000K	3901	26.5	136
	5000K	3901		136
	3000K	4105		139
L042	3500K	4207	20.6	142
LU42	4000K	4278	29.6	145
	5000K	4278		145
	3000K	4720		143
L048	3500K	4837	33	147
LU48	4000K	4918	33	149
	5000K	4918		149
	3000K	5791		145
L058	3500K	5935	40	148
LU58	4000K	6035	40	151
	5000K	6035		151
	3000K	6819		136
1.070	3500K	6989	F04	139
L070	4000K	7107	50.1	142
	5000K	7107		142

Lumen Package	Color	Lumens	Input Watts	LPW
	3000K	8368		131
L085	3500K	8569	64	134
LU85	4000K	8717	04	136
	5000K	8717		136
	3000K	9924		132
L097	3500K	10172	75	136
L097	4000K	10341	/5	138
	5000K	10341		138
	3000K	11910		126
L120	3500K 12208	94.4	129	
L120	4000K	12410	94.4	131
	5000K	12410		131
	3000K	12910		127
L130	3500K	13233	101.8	130
LISU	4000K	13452	101.6	132
	5000K	13452		132
	3000K	13873		124
1440	3500K	14220	111 -	128
L140	4000K	14456	111.5	130
	5000K	14456		130

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.



2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

NX LIGHTING CONTROLS



					Contro	l Optio	n Func					
	Со	Control Option Ordering Logic & Description			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	√	/	√	1	-	/	√	√	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	1	√	√	√ 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			
9	Occupancy Sensor Timeout	15 Minutes			
Ni	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					
nec	Grace Time	-					
Ö	Strategy	Auto ON/OFF					
NX Independent - NX Connect	Occupancy Sensitivity	5 (highest)					
ent	Occupancy Indicator	ON					
end	Partial Off/Standby	0%					
deb	Background Level	50%					
Α̈́	Task Level	100%					
_	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.





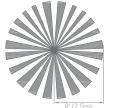
DATE: LOCATION:

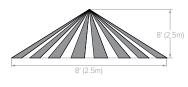
TYPE: PROJECT:

2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

COVERAGE PATTERNS

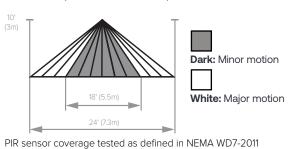
NXWSM/NXESM (NXSMP2-SMI SENSOR)





NXCS (NXC-WIZ20 SENSOR)

CATALOG #:



OTHER LIGHTING CONTROLS

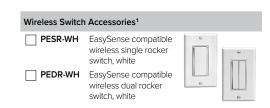
	Co	Control Option Ordering Logic & Description			Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Control (Option Components
	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device. ¹	-	✓	-	✓	✓	✓	✓	√ ₃		SNS200
Other	LVR	The Vive 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	>	✓	✓	-	-	-	>	ı	O	DFCSJ-OEM-RF
Other	LVS		✓	✓	✓	✓	√	-	✓	-	0 0	DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. ³	√	✓	-	-	-	✓	✓	-		A-WN-D01-RF-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:



- \bullet 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.





2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

SPECTRASYNC™ COLOR TUNING TECHNOLOGY:

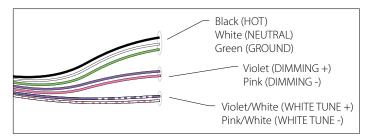
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



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.

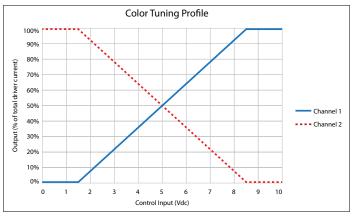


SpectraSync Tunable White luminaires are provided with two 0-10V circuits. The violet and pink circuit is for wiring to any qualified 0-10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0-10V controller for Tunable White CCT control.

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.





LOCATION: DATE: TYPE: PROJECT:

CATALOG #:

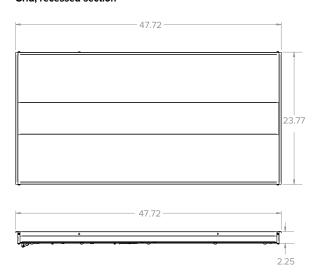
2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

DIMENSIONS

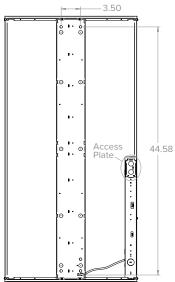
GRID



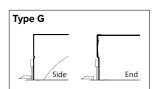
Grid, recessed section



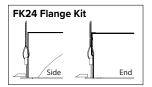
Grid, back of housing



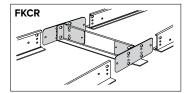
CEILING COMPATIBILITY



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" an 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.

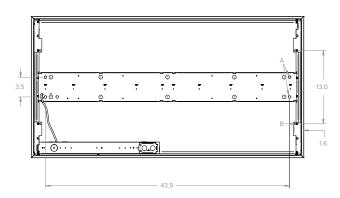


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters: Width 24%", Length [48" × (# in row)] + 3%". Example: (48" × 2) + 3%" = 96%"

Flange kit cut out dimension for single unit only: 243/8" × 483/8"

SURFACE MOUNT OR CABLE MOUNT



Surface section (SM)

 $\label{eq:SM-continuous} \textbf{Surface Mount:} \\ \textbf{Order SM ceiling type.} \\ \textbf{Mounting collar required for surface mounting. (4)} \\ \textbf{Mounting knock-outs, } \%", \\ \textbf{provided in center channel as} \\ \textbf{indicated at left, marked A}. \\ \end{cases}$

Order CM ceiling type. Use CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide CM trim fixtures. Mounting holes are provided, marked B.





2' × 4' SHALLOW LED CONTEMPORARY ARCHITECTURAL TROFFER

PHOTOMETRY

LCAT24-S-40L085G

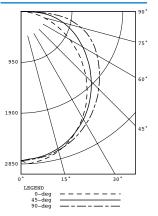
LUMINAIRE DATA

Test No.	P22.00373	
Description	2' x 4' LED architectural troffer with frosted linear prismed lens	
Delivered Lumens	8717	
Watts	64	
Efficacy	136.2	
Mounting	Recessed/Ceiling	
Spacing Criterion	0° = 1.22 90° = 1.30	

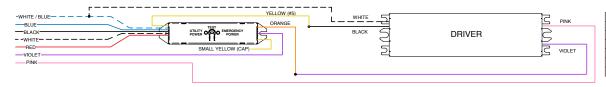
ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	2156	24.7
0-40	3528	40.5
0–60	6316	72.5
0–90	8711	99.9
0–180	8717	100

POLAR GRAPH



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



	E 11	
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.