



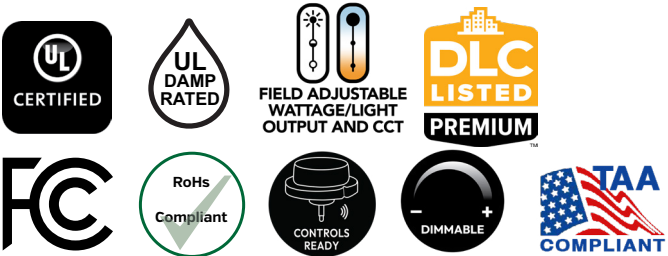
TRITONPRO™ LED TROFFER SELECTABLE, GEN 4

LTHES4



LTHES424B1UNVFD8CSLFG

Project Name:	
Catalog Number:	
Type:	
Note:	
Date:	



Intended Use

- The LTHES4 LED Troffer Selectable, Gen 4 is the ideal recessed lay-in troffer solution for commercial spaces, offices, educational institutions, healthcare facilities, and any location with a T-Bar lay-in grid in 1' x 4', 2' x 2' and 2' x 4' sizes.
- This cost-efficient troffer not only delivers superior, even light distribution but also significantly enhances energy savings compared to traditional fluorescent troffers while reducing operating costs, improving visual comfort, and increasing sustainability.

Construction

- Easily accessible dip switches allow the user to select CCT and lumen output in the field providing flexibility to adapt to different work environment dynamics.
- Low profile steel construction design with powder coat.
- Fits into standard 9/16" and 15/16" T-Bar grid and recessed ceilings.
- Available in 1' x 4', 2' x 2', and 2' x 4' fixture sizes.

Electrical

- L70 at 144,000 hours at 25°C [see page 3 for lumen maintenance table].
- 120v-277v Standard with 0-10V dimming drivers.
- Field Adjustable Wattage.

Controls and Sensor Options

- Fixture available with sensor base for field-installed standalone and Bluetooth Mesh controls.

Additional Options

- Factory and field installable battery backup available.

Installation

- Recessed lay-in troffer for any location with a 9/16" and 15/16" T-Bar lay-in grid.
- Surface and drywall mounting options using additional installation kits (ordered separately).

Fixture Certifications & Listings

- UL/cUL Listed for Damp Locations
- Certified for insulated plenums (type IC)
- FCC Certified
- RoHS Compliant
- TAA Compliant
- DesignLights Consortium™ Premium qualified luminaire. Visit the [DLC QPL](#) for listed models.

Warranty

- 5 year warranty standard.
- Optional 10 year warranty available at additional cost.
- See Orion's [Product Limited Warranty](#) for more details and information.

Standard Part Number	DLC Product ID	DLC Listing
LTHES414A1UNVFD8CSLFG	S-NFNX88	Premium
LTHES422A1UNVFD8CSLFG	S-T6RYK4	Premium
LTHES424B1UNVFD8CSLFG	S-LB465Q	Premium



TRITONPRO™ LED TROFFER SELECTABLE, GEN 4

LTHES4

Ordering Information Example (NOTE: No dashes or spaces unless noted below)

LTHES424B1UNVFD8CSLFG

Ordering Information [Enter Selected Catalog Number Below for Factory-Installed Options]

Series	Fixture Size	Nominal Lumen Code ¹	Voltage	Fixture Type	CRI; Color Temp	Lens Options	Fixture Options	Packaging
LTHES4= TritonPro Troffer Selectable, Gen 4	14= 1' x 4' 22= 2' x 2' 24= 2' x 4'	1' x 4' A1= 2,200lm/ 3,300lm/ 4,400lm 2' x 2' A1= 2,200lm/ 3,300lm/ 4,400lm 2' x 4' B1= 3,300lm/ 4,400lm/ 5,500lm	UNV= 120v-277v	FD= Full Dimming 0-10v	8CS= 80 CRI; Selectable CCT 3500K/ 4000K/ 5000K	LFG= Lens, Frosted, General Distribution	(blank)= No Options BB08= Battery Back Up, 8w CR= Control Ready/ Sensor Receptacle	(blank)= Bulk Pack (ships in pack of 2)
		All fixtures are set to the max lumen output at 4000K (ex: LTHES422A1 = 4,400lm at 4000K) ¹ For actual performance information, see performance table			All fixtures are set to the max lumen output at 4000K (ex: LTHES422A1 = 4,400lm at 4000K)			

Accessories [Field Installed] [View our Install Instructions Here](#)

Battery Back Up Kit Options	
LTHES4-BB08-KIT	Emergency Driver Kit, 8w
Remote Required for Commissioning	
RM51	Keilton Sensor IR Remote Controller (for IFS06R sensor)
CR [Control Ready] Sensors	
IFS06R	Keilton Basic PIR Occupancy Sensor: Daylight Harvesting, High and Low End Trim, 0-10v Dimming, IR Remote Programmable (requires RM51 for commissioning or modifying)
IFS108	Keilton + Autani Bluetooth Mesh: Wireless Fixture Controller, PIR Occupancy Sensor, High/Low/Off, 0-10v Dimming, Daylight Harvesting, High End Trim, Luminaire Level Lighting Control, Wireless Zones, Time-of-Day Scheduling, Keilton Mobile App Programmable

Recessed Mounting Options	
TR-DW14-KIT	Troffer 1' x 4' Drywall Kit
TR-DW22-KIT	Troffer 2' x 2' Drywall Kit
TR-DW24-KIT	Troffer 2' x 4' Drywall Kit
Surface Mounted Options	
TR-SM14-KIT	Troffer 1' x 4' Surface Mount Kit
TR-SM22-KIT	Troffer 2' x 2' Surface Mount Kit
TR-SM24-KIT	Troffer 2' x 4' Surface Mount Kit

Battery Back Up



Control Ready Base





TRITONPRO™ LED TROFFER SELECTABLE, GEN 4

LTHES4

Performance Information, 120v, ≥ 80 CRI²

Nominal Lumen Code	Wattage	3500K		4000K		5000K	
		Lumens	LPW	Lumens	LPW	Lumens	LPW
1' x 4'							
A1	18w	2,571lm	143	2,627lm	144	2,638lm	142
	27w	3,742lm	139	3,852lm	146	3,787lm	140
	36w	4,816lm	134	4,997lm	145	4,925lm	138
2' x 2'							
A1	18w	2,606lm	147	2,691lm	155	2,709lm	153
	26w	3,753lm	143	3,876lm	152	3,864lm	148
	34w	4,741lm	138	4,977lm	149	4,911lm	143
2' x 4'							
B1	26w	3,857lm	146	3,972lm	154	3,953lm	150
	35w	4,941lm	141	5,097lm	150	5,027lm	144
	44w	5,967lm	136	6,185lm	145	6,099lm	139

Lumen Maintenance³

Fixture Size	Nominal Lumen Code	Operating Temperature	Calculated Lumen Maintenance		
			L70	L80	L90
1' x 4'	A1	25°C	144,000	90,000	44,000
		45°C	144,000	90,000	44,000
2' x 2'	A1	25°C	144,000	90,000	44,000
		45°C	144,000	90,000	44,000
2' x 4'	B1	25°C	144,000	90,000	44,000
		45°C	144,000	90,000	44,000

Battery Back Up - Lumen Output in Emergency Mode

Nominal Lumen Code	Voltage	Wattage	Lumen Output
All Lumen Codes	UNV	8w	1,040lm

Ambient Operating Temperatures

Nominal Lumen Code	Standard Operating Range	With Battery Back Up
All Lumen Packages	-15°C to 45°C (5°F to 113°F)	Min. Operating Temp. 0°C (32°F)
Operating Ranges with Sensors		
IFS06R	0°C to 45°C (32°F to 113°F)	
IFS108	0°C to 45°C (32°F to 113°F)	

Additional Specification Information

² Actual performance may vary by up to $\pm 10\%$ of values listed; facility factors and fixture options can affect performance values

³ Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance



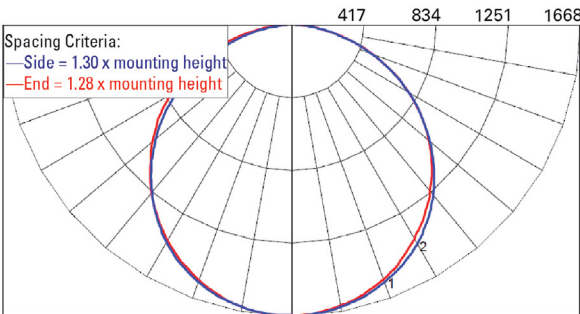
TRITONPRO™ LED TROFFER SELECTABLE, GEN 4

LTHES4

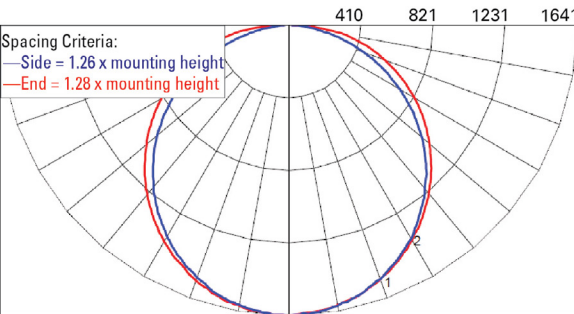
Photometrics

Visit orionlighting.com to obtain all .IES files

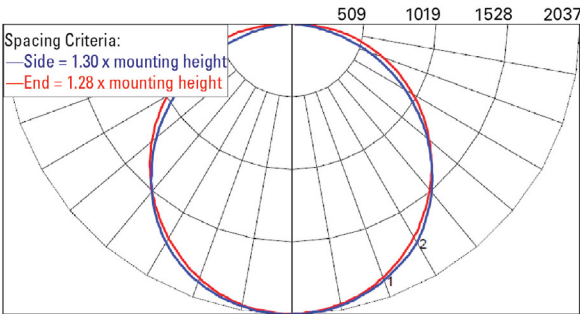
14 A1 850



22 A1 850



24 B1 850



Physical Information

Fixture Size	Nominal Lumen Code	Length	Width	Depth	Weight ⁴
1' x 4'	A1	47.76"	11.93"	1.42"	3.97lbs
2' x 2'	A1	23.74"	23.74"	1.42"	3.86lbs
2' x 4'	B1	47.76"	23.74"	1.42"	7.36lbs.

Additional Specification Information

⁴ Weight varies based on option selected



TRITONPRO™ LED TROFFER SELECTABLE, GEN 4

LTHES4

Controls

Standalone Sensors – Keilton Basic (IFS06R + RM51)

Simple, standalone commercial lighting controls including switches, fixture-integrated sensors, and infrared remotes that provide lighting control without networking or radios.

- [IFS06R](#) – The IFS06R is an integrated photocell and PIR occupancy sensor in a compact form factor. Different modes can be selected for various applications using the RM51 remote control.
- [RM51](#) – The RM51 Remote is used to program the configurations of the Keilton Basic sensors using infrared (IR) communications with the devices. It offers 6 default modes of configurations plus manual settings. Customer configurations can be created, saved and then sent to each device ensuring a rapid deployment.

Bluetooth Mesh Sensors – Keilton+Autani

DLC-listed gateway-free local room-based Bluetooth® mesh commercial lighting control software and hardware products that include mobile apps, sensors, controllers, switches and other devices for commercial lighting.

- [IFS108](#) – The IFS 108 series are designed for Luminaire Level Lighting Control [LLLC/NLC5] applications with integrated daylight harvesting and PIR motion sensors which could convert general luminaire into smart lighting fixture. The compact structure is designed for panel, troffer, strip, wrap, vaportight and some architectural lighting fixtures.

For more detailed instructions on commissioning, settings, and features please visit [Keilton App Instructions](#)

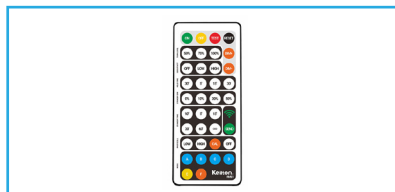


Keilton iOS



Keilton Android
@GooglePlay

Accessories [Field Installed]



Keilton Basic Handheld Sensor Remote
(RM51)