

LTHES2

Applications

The LTHES2 recessed Lay-In Troffer is ideal for commercial, office, retail, education, healthcare or anywhere T-Bar Lay-In Grid is found in 1' x 4', 2' x 2', and 2' x 4'. The LTHES2 cost-efficient troffer provides even light distribution and improved energy savings over commonly used fluorescent troffers.



LTHES224B1UNVFD8CSLAFG

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



Construction & Design

- 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
- Select between three CCT (3500K/4000K/5000K) and three lumen outputs
- Low profile steel construction design with powder coat finish
- 1' x 4', 2' x 2' and 2' x 4' fixture sizes
- Acrylic frosted contour lens reduces glare in the work environment. Meets DLC premium glare requirement
- Fits into standard 9/16" and 15/16" T-bar grid and recessed ceilings
- Ships 2 per pack and must be ordered in quantities of 2
- Minimum 80 CRI

Additional Options

- Factory or field installed battery back up available
- Compatible with 0-10v occupancy controls

Electrical

- Available in 120v-277v
- Standard 0-10v dimming drivers
- Power Factor >0.90*
- Total Harmonic Distortion < 20%*

*Note: Varies based on option

Lumen Maintenance

See lumen maintenance table on page 2

Fixture Certifications & Listings

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

Warranty

See Orion's [Product Limited Warranty](#) for more details and information

Performance Information, 120v, ≥ 80 CRI¹

Nominal Lumen Code	Wattage	3500K		4000K		5000K	
		Lumens	LPW	Lumens	LPW	Lumens	LPW
1' x 4'							
A1	20w	2,760lm	138	2,780lm	139	2,800lm	140
	25w	3,375lm	135	3,400lm	136	3,425lm	137
	30w	3,840lm	128	3,870lm	129	3,900lm	130
2' x 2'							
A1	20w	2,760lm	138	2,780lm	139	2,800lm	140
	25w	3,375lm	135	3,400lm	136	3,425lm	137
	30w	3,840lm	128	3,870lm	129	3,900lm	130
B1	25w	3,375lm	135	3,400lm	136	3,425lm	137
	30w	3,840lm	128	3,870lm	129	3,900lm	130
	35w	4,480lm	128	4,515lm	129	4,500lm	129
2' x 4'							
B1	25w	3,375lm	135	3,400lm	136	3,425lm	137
	30w	3,840lm	128	3,870lm	129	3,900lm	130
	35w	4,480lm	128	4,515lm	129	4,500lm	129
C1	34w	4,522lm	133	4,566lm	135	4,590lm	135
	38w	4,940lm	130	4,978lm	132	5,016lm	132
	45w	5,625lm	125	5,670lm	127	5,715lm	127

Lumen Maintenance ²

Fixture Size	Nominal Lumen Code	Operating Temperature	Calculated Lumen Maintenance		
			L70	L80	L90
1' x 4'	A1	25C	>189,000	>119,000	>57,000
		50C	>155,000	>98,000	>47,000
2' x 2'	A1	25C	>190,000	>120,000	>58,000
		50C	>158,000	>100,000	>48,000
2' x 2'	B1	25C	>190,000	>120,000	>58,000
		50C	>158,000	>100,000	>48,000
2' x 4'	B1	25C	>189,000	>119,000	>57,000
		50C	>155,000	>98,000	>47,000
2' x 4'	C1	25C	>183,000	>115,000	>56,000
		50C	>151,000	>95,000	>46,000

Additional Specification Information

¹ Actual performance may vary by up to $\pm 10\%$ of values listed; facility factors and fixture options can affect performance values

² Calculated hours based on TM-21 projections and components used at the time of testing. Warranty is not associated with Calculated Lumen Maintenance

Ordering Information Example (NOTE: No dashes or spaces unless noted below)
LTHES224B1UNVFD8CSLAFG

Ordering Information [Enter Selected Catalog Number Below]

Series	Fixture Size	Nominal Lumen Code ³	Voltage	Fixture Type	CRI; Color Temp	Lens Options	Fixture Options	Factory Installed Control Options	Packaging
LTHES2= TritonPro Lumen Select Troffer, Gen 2	14= 1' x 4' 22= 2' x 2' 24= 2' x 4'	1' x 4'⁴ A1= 2,750lm/ 3,500lm/ 4,000lm 2' x 2' A1= 2,750lm/ 3,500lm/ 4,000lm B1= 3,500lm/ 4,000lm/ 4,500lm 2' x 4' B1= 3,500lm/ 4,000lm/ 4,500lm C1= 4,500lm/ 5,000lm/ 5,500lm	UNV= 120v-277v	FD= Full Dimming 0-10v	8CS= 80 CRI; Selectable CCT 3500K/4000K/5000K	LAFG= Lens, Acrylic, Frosted, General Distribution	{blank}= No Options BB10= Battery Back Up, 10w ^{4,5,6}	{blank}= No Options	{blank}= Bulk Pack (ships 2 per pack- must be ordered in quantities of 2)

****Note:** All fixtures are set to the max range output at 4000K (ex: **LTHES222B1** = 4,500lm at 4000K)

Factory Installed Options



Battery Back Up 10w (BB10)

Additional Specification Information

³ For actual performance information, see performance table
⁴ LTHES 1' x 4' models not available with factory installed battery back up

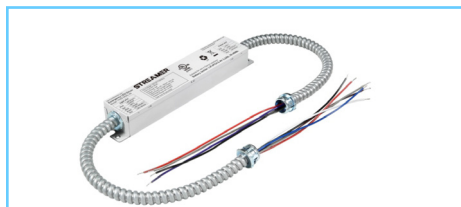
⁵ Multiply battery back up wattage by LPW to calculate lumen output during emergency mode

⁶ Emergency mode CCT is only 5000K

Accessories (Field Installed)

Battery Back Up Kit Options	
LTHES-BB08-KIT ^{5,6}	Emergency Driver Kit, 8w

Accessories (Field Installed)



Battery Back Up 8w, dual conduit
(LTHES-BB08-KIT)

Physical Information

Fixture Size	Nominal Lumen Code	Length	Width	Depth	Weight ⁷
1' x 4'	A1	47.80"	11.70"	2.00"	7.72lbs.
2' x 2'	A1/B1	23.70"	23.70"	2.10"	6.83lbs.
2' x 4'	B1/C1	47.80"	23.70"	2.10"	11.11lbs.

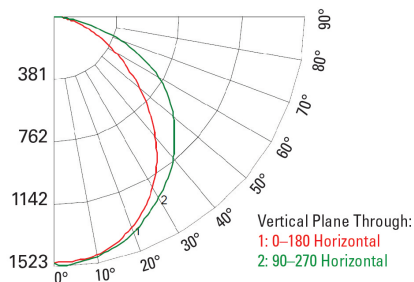
Ambient Operating Temperatures

Fixture Size	Nominal Lumen Code	Standard Operating Range
1' x 4'	A1	-20°C to 50°C [-4°F to 122°F]
2' x 2'	A1/B1	-20°C to 50°C [-4°F to 122°F]
2' x 4'	B1/C1	-20°C to 50°C [-4°F to 122°F]

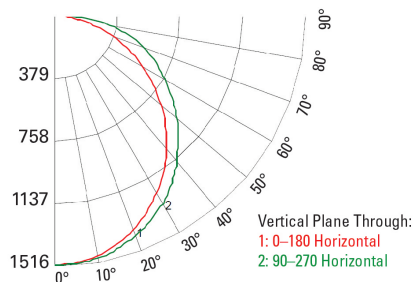
Photometrics

Visit orionlighting.com to obtain all .IES files

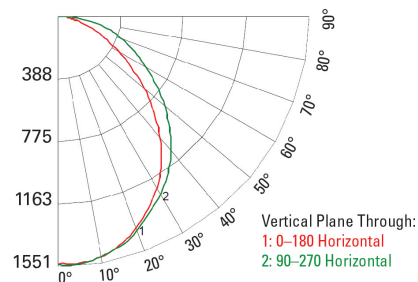
14 A1 850



24 B1 850



22 A1 850



Additional Specification Information

⁵ Multiply battery back up wattage by LPW to calculate lumen output during emergency mode

⁶ Emergency mode CCT is only 5000K

⁷ Weight varies based on option selected