

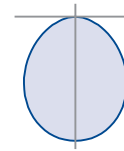
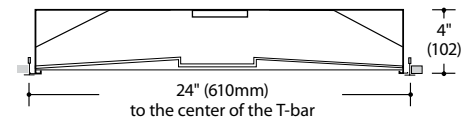
LHE LED Recessed Troffer

Fixture Type:

Project Name:

Ordering Guide

Feature	Code	Options	Description
Series		LHEL	LHE Recessed LED Troffer
Ceiling Type		G NG SS DW	15/16" Grid Ceiling 9/16" Narrow Face Grid Ceiling 9/16" Screw Slot Grid Ceiling Drywall Ceiling
Distribution		D	Direct
Size		14 22 24	1' x 4' Fixture 2' x 2' Fixture 2' x 4' Fixture
Diffuser		SGL	Soft Glow Lens
Finish/Color		C1	Matte White
Color temperature		30K 35K 40K	3000K 3500K 4000K
Output (specifiable in 100 lumen increments)		D17 (min) D61 (max)	1700 6100 see "Performance" section for output limitations
Driver		NDM D10 D01	Non Dimming Osram 10% Dimming Osram 1% Dimming
Voltage		UNV 120 240	Universal Voltage 120 Volt 240 Volt
Optional Features	Code	Options	Description
Emergency		ICP7	ICP7 Emergency Battery. Integral-Iota CP-07
Chicago Enviromental Air Modification		CCEA	Chicago Enviromental Air Modification
Flex Whip		FW FWC FWPR FWPRC	Flex Whip Flex Whip field-installed Plenum Rated Flex Whip Plenum Rated Flex Whip field-installed
Control Options	Code	Options	Description
Lutron Vive		LV	0-10V Wireless RF Fixture Module *Excludes Ceiling type 'DW' option



Key Features

- Variable Intensity technology provides a range of specifiable outputs and resulting fixture wattages
- 3.5 SDCM color variation
- One piece acrylic diffuser



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Performance

Nomenclature	Lumens/Fix	2x2		2x4		1x4	
		W/unit	Efficacy	W/unit	Efficacy	W/unit	Efficacy
D17 (min)	1700*	15	113	n/a	n/a	n/a	n/a
D18	1800*	16	113	n/a	n/a	n/a	n/a
D19	1900**	17	112	n/a	n/a	15	127
D20	2000	19	105	15	133	16	125
D21	2100	20	105	16	131	17	124
D22	2200	21	105	17	129	19	116
D23	2300	22	105	18	128	20	115
D24	2400	23	104	19	126	21	114
D25	2500	24	104	20	125	22	114
D26	2600	25	104	21	124	23	113
D27	2700	26	104	22	123	24	113
D28	2800	27	104	23	122	25	112
D29	2900	29	100	24	121	26	112
D30	3000	30	100	25	120	28	107
D31	3100	31	100	26	119	29	107
D32	3200	33	97	28	114	30	107
D33	3300	34	97	29	114	31	106
D34	3400	35	97	30	113	32	106
D35	3500	36	97	31	113	33	106
D36	3600	38	95	32	113	34	106
D37	3700	39	95	33	112	36	103
D38	3800	40	95	34	112	37	103
D39	3900	41	95	35	111	38	103
D40	4000	43	93	36	111	39	103
D41	4100	44	93	37	111	40	103
D42	4200	45	93	38	111	41	102
D43	4300	46	93	39	110	42	102
D44	4400	48	92	40	110	43	102
D45	4500	49	92	41	110	44	102
D46	4600	50	92	42	110	45	102
D47	4700	52	90	43	109	46	102
D48	4800	53	91	44	109	47	102
D49	4900	54	91	45	109	48	102
D50	5000***	n/a	n/a	47	106	49	102
D51	5100***	n/a	n/a	48	106	50	102
D52	5200***	n/a	n/a	49	106	51	102
D53	5300****	n/a	n/a	50	106	n/a	n/a
D54	5400****	n/a	n/a	51	106	n/a	n/a
D55	5500****	n/a	n/a	52	106	n/a	n/a
D56	5600****	n/a	n/a	53	106	n/a	n/a
D57	5700****	n/a	n/a	54	106	n/a	n/a
D58	5800****	n/a	n/a	55	105	n/a	n/a
D59	5900****	n/a	n/a	57	104	n/a	n/a
D60	6000****	n/a	n/a	58	103	n/a	n/a
D61 (max)	6100****	n/a	n/a	59	103	n/a	n/a

(wattage may vary up to 5% from published)

*2x2 only

**excludes 2x4

***excludes 2x2

****2x4 only

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Details

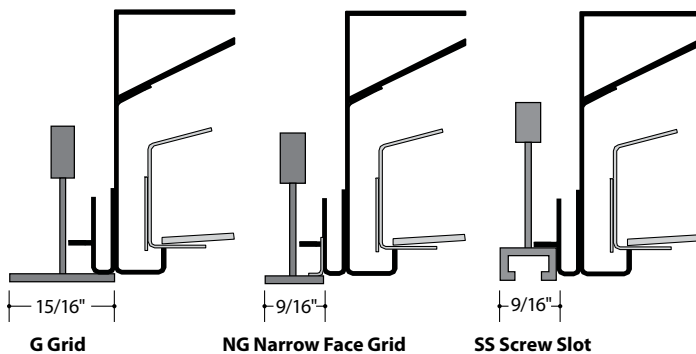
Construction:

Housing: Die-formed steel. Wiring access plate on top of housing for flexible conduit attachment.
Reflectors: High-reflectance prepaint matte white steel
Door frame: Lift and shift steel door frame which rests within housing. Holds pre-installed diffuser. Additionally secured via plastic strapping at two points. Ships separate from housing.

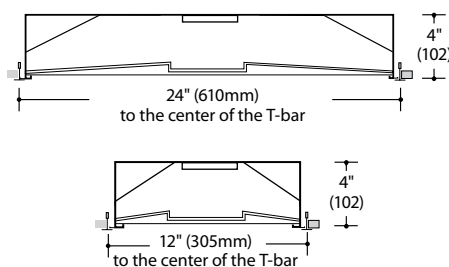
Mounting:

Intended for installation in exposed, inverted T-bar grid ceiling (NEMA type G). Holes in housing provided for wire-on-chain mounting support to building structure.

Grid Mounting Options



Size:



Diffuser:

High-efficiency one-piece extruded acrylic lens. Dropped center channel for excellent source diffusion.

Finish/Color:

Pre-finished matte white.

Output:

Specify in 100 lumen increments within the below range:

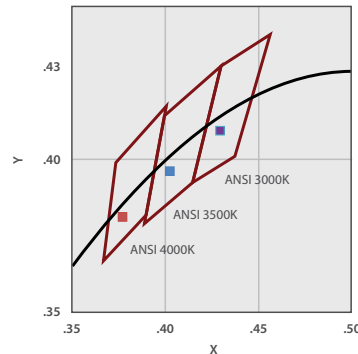
	2x2	2x4	1x4
Min:	1700 (D17)	2000 (D20)	1900 (D19)
Max:	4900 (D49)	6100 (D61)	5200 (D52)

Driver:

NDM: Non-dimming. Fixture will be wired for fixed light output.
D10: 100%-10% dimming range. Fixture will be wired for low voltage 0-10V dimming control.
D01: 100%-1% dimming range. Fixture will be wired for low voltage 0-10V dimming control.

Color Temperature:

30K-3000K
 35K-3500K
 40K-4000K



Color Variation:

3 step MacAdam ellipse

Output (VI technology):

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

Emergency:

Integral-lota ILB-CP7 battery pack
 Inverter-Compatible. Provided by others.

Chicago Environmental Air Modification:

Fixture meets CCEA luminaire requirements.

Flex Whip:

3/8" flex conduit. 6' length. 90° connector on fixture end. 18 gauge wiring.

Field accessibility:

LED boards and drivers can be accessed and removed from below fixture, while installed. LED boards can be replaced either individually or as part of module.

Controls:

Lutron Vive- 0-10V Wireless RF Fixture Module for 1A 0-10V
 *For design considerations, see separate LC Lutron Vive tech sheet on product page

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Details (continued)

CRI:

Technology Details

CRI: 80 minimum

	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

Rated Life (LED Board):

Tested in accordance to LM79-2008

L70 calculated (per TM-21 extrapolated curve): ≤ 4200 lm= 340,000 hours
> 4200 lm= 96,000 hours
L70 reported (per TM-21/LM80 6x's limitation): > 60,000 hours
L90 calculated (per TM-21 extrapolated curve): ≤ 4200 lm=91,000 hours
>4200 lm= 27,000 hours

Rated Life (Driver):

Standard: 100,000 hours

Fixture weight:

17.5 lbs (2x2).

Ratings:

CSA listed for damp locations. IBEW. AF of L.

Warranty:

LED boards-5 years
LED drivers (standard)-5 years
see www.litecontrol.com for details

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Photometry

Fixture: LHEL-X-D-22-SGL-C1-35K-D40

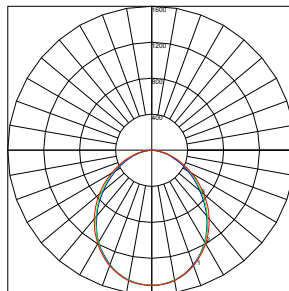
CCT: 3500K

Output: D40

Nominal lumens: 4000 lumens

Efficacy: 96 lm/W

Test report: LHEL-X-D-22-SGL-C1-35K-D40.ies



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	541.72	14.80
0-30	1130.26	31.00
0-40	1805.55	49.50
0-60	3005.12	82.30
0-80	3597.02	98.50
0-90	3650.95	100.00
10-90	3509.34	96.10
20-90	1263.83	34.60
20-50	1918.4	52.50
40-70	1583.11	43.40
60-80	591.89	16.20
70-80	208.36	5.70
80-90	53.93	1.50
90-110	0.00	0.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
110-180	0.00	0.00
0-180	3650.95	100.00