

Project:	Catalogue #:	Type:
Notes:		

Product Description

An Intellect enabled commercial-grade, recessed, lay-in coffer T-Bar troffer with modern styling and high visual comfort featuring a single shallow semi-round lens. This luminaire features standalone occupancy sensor with daylight harvesting or wireless occupancy/daylight sensor that integrates into the Intellect wireless control system. For use with indoor applications where low-glare, high-quality and ease of installation are required. This IC-rated luminaire's low-profile design makes it ideal for shallow or obstructed plenum applications.

Applications

Office Areas, Retail Stores, Classrooms, Hospitals, Nursing Homes

Features

- Shallow design
- Extruded acrylic lens
- Standard low voltage dimming (0-10v), 10%
- 80+ CRI
- Available in 1x4, 2x2, and 2x4 configurations
- For use in insulated ceilings
- Room side access for driver compartment
- Intellect occupancy/daylight sensor

Featured Options

- Emergency lighting battery pack
- Optional basket/lenses (see ordering key)

Optical System

Round linear ribbed frosted acrylic diffuser, offers high levels of efficiency and visual comfort. Indirect reflectors are precision formed and contoured to provide soft, low glare, indirect illumination, while maintaining high-efficiency and a wide, uniform light distribution. Other lens options available (see ordering key on page 2).

Mounting

This luminaire has been specifically designed for T-Bar applications. Holes provided for chain-mounting support to building structure with integral earthquake clips.

Construction

Die-formed, code gauge steel housing. Precision-formed steel reflector.

Finish

White, polyester powder painted housing.

Electrical

Long life LEDs coupled with high efficiency drivers provide quality illumination. Rated to deliver L80 performance > 50,000 hours.

Controls

Two Integrated control fixtures available (see ordering key on page 2). The Intellect in-fixture solo occupancy sensor with daylight harvesting and the Intellect in-fixture wireless occupancy/daylight sensor that integrates into the Intellect wireless control system.

Warranty

5 year limited warranty. For complete warranty, click here:



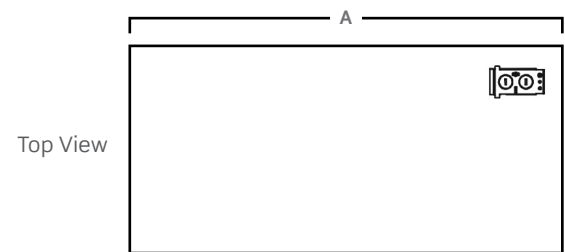
Approvals

- Approved to CSA/UL standards. UL listed for insulated ceilings.
- Tested in accordance to IESNA LM-79.
- Suitable for damp locations.
- DesignLights Consortium® Qualified.

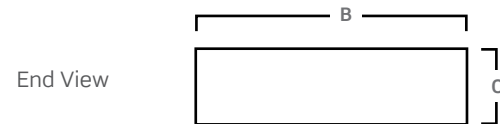
All configurations may not be DLC qualified. Check www.designlights.org/QPL for qualified configurations



Dimensions



Top View



End View

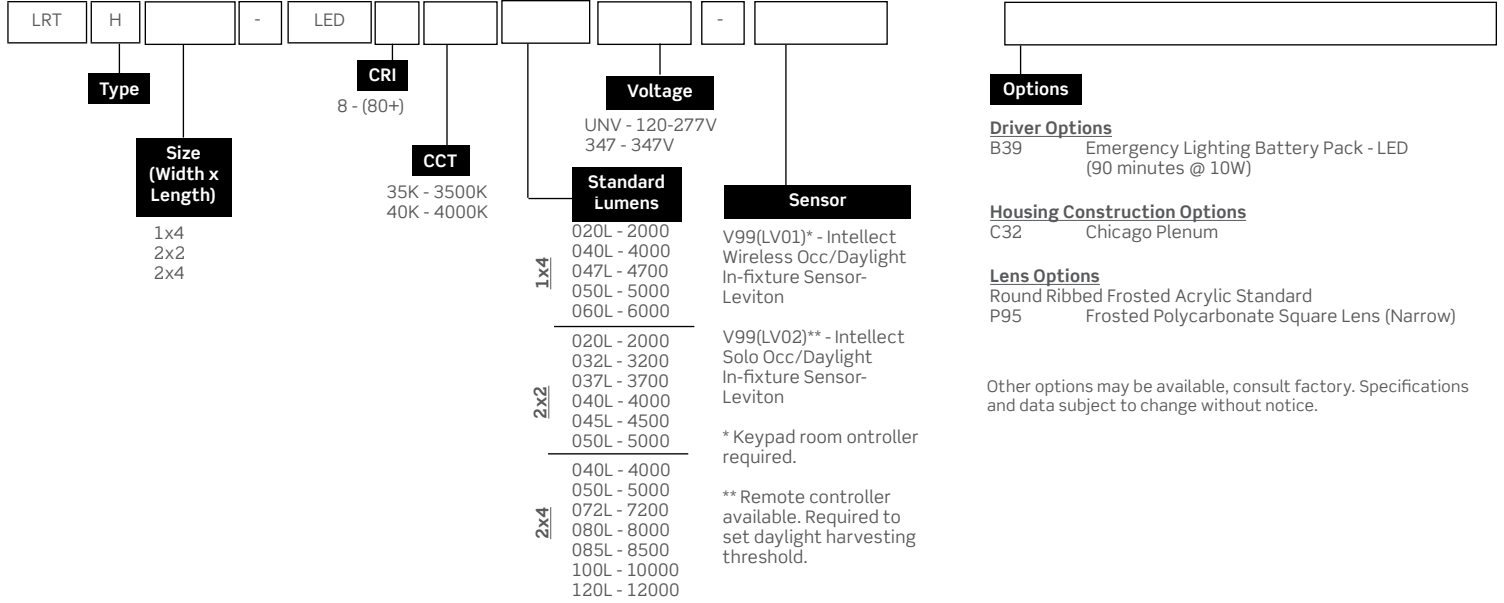
Size	A	B	C
1x4	47 3/4"	11 3/4"	2 1/2"
2x2	23 3/4"	23 3/4"	2 1/2"
2x4	47 3/4"	23 3/4"	2 1/2"

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: LRTH2x4- LED840K050LUNV-V99(LV01)



Performance Data

LED Performance Data				
Size	Nominal Lumens	Delivered Lumens	Watts	Lumens Per Watt
1x4	2000	2037	13	152
	4000	3968	28	143
	4700	4701	34	139
	5000	5027	37	138
	6000	6008	43	141
2x2	2000	2047	13	156
	3200	3178	21	151
	3700	3710	25	148
	4000	4058	28	146
	4500	4504	31	144
	5000	5076	36	142
2x4	4000	4135	28	149
	5000	5036	35	145
	7200	7214	50	144
	8000	8008	57	141
	8500	8552	58	148
	10000	10072	70	145
	12000	12037	81	148

Values based on 840K with standard lens at 25C

Surface Kits (Ordered Separately)	
Size (Width x Length)	Item No.
1x4	KIT00326
2x2	KIT00327
2x4	KIT00316

Flange Kits (Ordered Separately)	
Size (Width x Length)	Item No.
1x4	KIT00136
2x2	KIT00137
2x4	KIT00138

Performance Scaling Factor

	50K	40K	35K	30K
80CRI	1.000	1.000	0.960	0.946
90CRI	0.875	0.875	0.836	0.809

Lifetime Expectancy

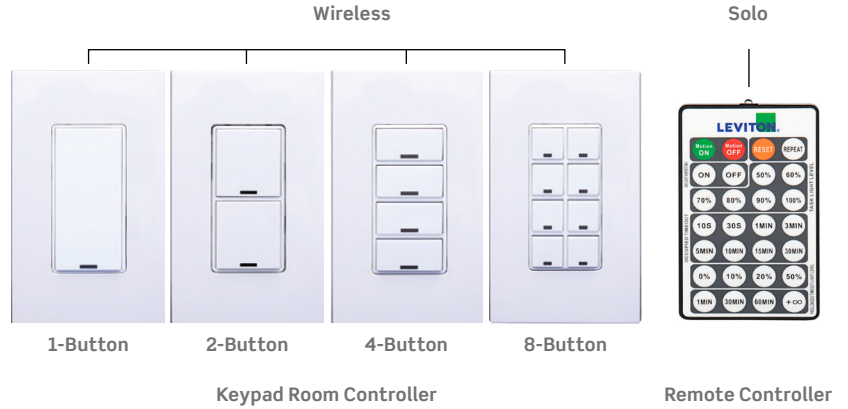
	Calculated Hours	Reported Hours
L70	≥ 238,000	> 60,000
L80	≥ 149,000	> 60,000
L90	≥ 71,000	> 60,000

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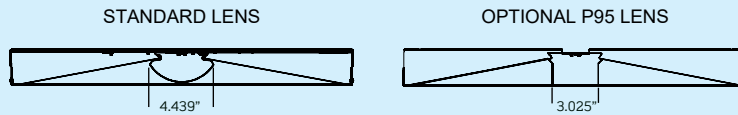
Intellect Controllers (Ordered Separately)

Item No.	Description	Sensor Type Compatibility
KIT00226	8 Buttons Keypad	V99(LV01)
KIT00227	4 Buttons Keypad	V99(LV01)
KIT00228	2 Buttons Keypad	V99(LV01)
KIT00229	1 Button Keypad	V99(LV01)
ELC00368	Remote Controller	V99(LV02)

*Wall Plate by Others

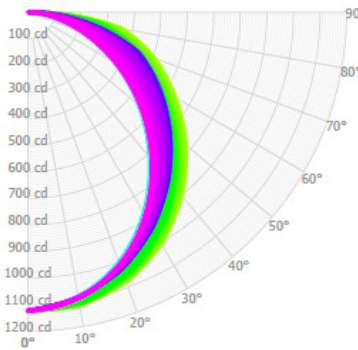


Lens Options



Photometrics

IES File: LRTH2X2-LED840K032LUNV
 Lumens: 3284
 Wattage: 32
 Efficacy: 103



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	860	26.2%
0.0° - 40.0°	1399	42.6%
0.0° - 60.0°	2463	75.0%
0.0° - 90.0°	3284	100.0%

Average Luminance Table (cd/m²) CP Summary

	0.00°	45.00°	90.00°
0.00°	3022	3022	3022
45.00°	2454	2855	3193
55.00°	2210	2812	3324
65.00°	1900	2873	3653
75.00°	1481	3254	4513
85.00°	336	4440	5818

Coefficients of Utilization

pc	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	70%	50%	30%
0	119	119	119	116	116	116	111	111	111
1	108	103	98	105	100	96	100	96	92
2	98	89	82	95	87	80	90	83	78
3	89	78	69	86	76	68	81	73	66
4	81	69	60	79	67	59	74	65	57
5	75	61	52	72	60	51	68	58	50
6	69	55	46	67	54	45	63	52	45
7	64	50	41	62	49	41	59	48	40
8	59	46	37	58	45	37	55	44	36
9	56	42	34	54	41	33	51	40	33
10	52	39	31	51	38	30	48	37	30

Effective Floor Cavity Reflectance: 20%