

Project:	Catalogue #:	Type:
Notes:		

Product Description

The LRTL troffer is a commercial-grade, recessed lighting solution designed for indoor applications. It features a classic semi-round center basket design with sleek curved reflectors and a wide center aperture for even, high-quality illumination. The LRTL's low-profile design is perfect for shallow or obstructed plenums and is compatible with 9/16" and 15/16" T-bar applications. This IC-rated luminaire is easy to install and provides high-quality lighting.

Applications

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

Features

- Shallow design
- Standard low voltage dimming (0-10v), 10%
- 80+ and 90+ CRI
- Available in 1x4, 2x2 and 2x4 configurations
- For use in insulated ceilings

Featured Options & Accessories

- Emergency Lighting Battery Pack
- Surface Kit
- Drywall Kit

Optical System

A frosted pressure-formed polycarbonate 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.

Mounting

This luminaire has been specifically designed for 9/16" and 15/19" 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 > 60,000 hours. Total harmonic distortion < 15%. Operating temperature ranked from 0C to 35C.

Warranty

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



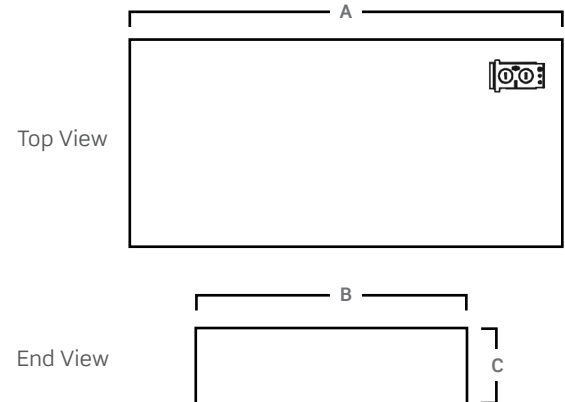
Approvals

- ETL Listed.
- Tested in accordance to IESNA LM-79.
- Suitable for damp locations.
- DesignLights Consortium® Pending.

www.designlights.org/QPL for qualified configurations. Certified for safety by ETL and is suitable for continuous, 24-hour use.



Dimensions



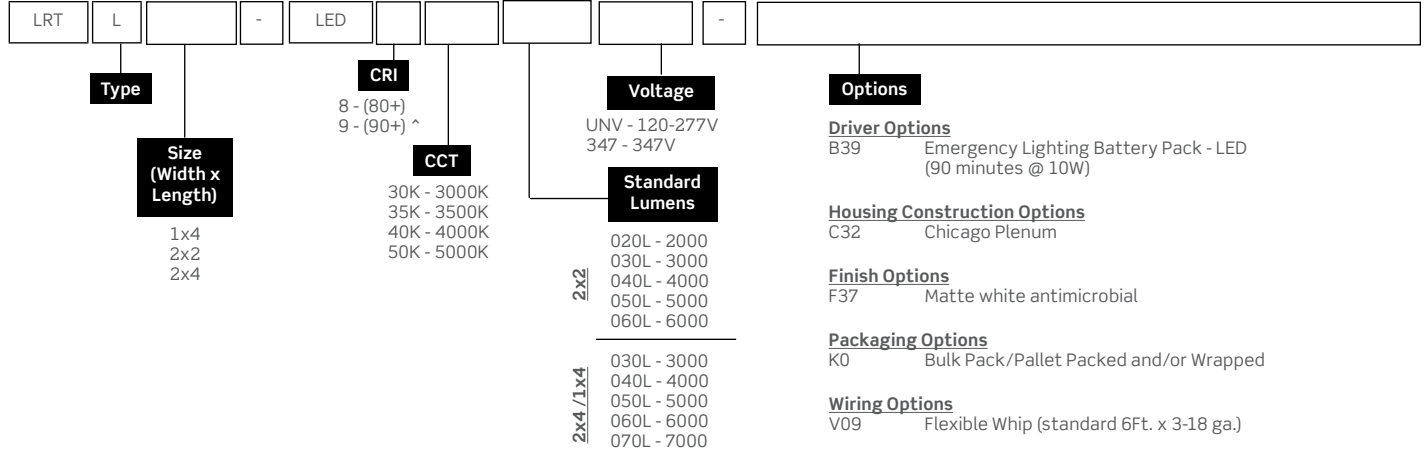
Size	A	B	C
1x4	47 3/4"	11 3/4"	2 1/2"
2x2	23 3/4"	23 3/4"	2 1/2"
2x4	47 3/4"	23 3/4"	2 1/2"

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: LRTL2x4-LED840K050LUNV



^ 90+ CRI reduces lumen output by 20%, not available with 5000K

Other options may be available, consult factory. Specifications and data subject to change without notice.

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 Data

LED Performance Data				
Size	Nominal Lumens	Delivered Lumens	Watts	Lumens Per Watt
2x2	2000	1840	13.8	133.2
	3000	3012	23	130
	4000	3936	30	135.2
	5000	5036	35.9	140.2
	6000	5826	41.3	141
1x4 2x4	3000	3153	23	139
	4000	4026	29	138
	5000	5036	35.9	140.2
	6000	5827	41	141
	7000	7155	52	137

Values based on 840K with standard lens at 25C

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

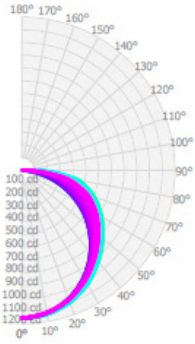
Lifetime Expectancy

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

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Photometrics

IES File: **LRTL2X2-LED840K040LUNV**
 Lumens: **N/A**
 Wattage: **30**
 Efficacy: **127**



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	904	23.7%
0.0° - 40.0°	1489	39.1%
0.0° - 60.0°	2716	71.3%
0.0° - 90.0°	3811	100.0%
0.0° - 110.0°	3811	100.0%
0.0° - 130.0°	3811	100.0%
0.0° - 150.0°	3811	100.0%
0.0° - 170.0°	3811	100.0%
0.0° - 180.0°	3811	100.0%

Average Luminance Table (cd/m2)
CP Summary

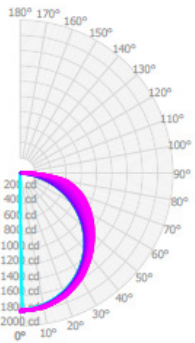
	0.00°	45.00°	90.00°
0.00°	3212	3212	3212
45.00°	3315	3097	2986
55.00°	3566	3145	2880
65.00°	4068	3353	2701
75.00°	4974	3944	2293
85.00°	5953	5050	379

Coefficients of Utilization
Values are lumens delivered to the workplane from a single luminaire

pc	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
pw	4536	4536	4536	4536	4431	4431	4431	4431	4234	4234	4234	4054	4054	4054	3888	3888	3888	3811						
0	4071	3858	3667	3495	3963	3770	3595	3437	3604	3459	3327	3452	3333	3223	3312	3216	3126	3041						
1	3667	3315	3023	2779	3562	3241	2972	2744	3101	2874	2678	2973	2782	2615	2854	2696	2555	2467						
2	3324	2883	2543	2272	3224	2821	2505	2250	2704	2432	2208	2595	2363	2168	2495	2298	2129	2040						
3	3031	2539	2178	1902	2939	2486	2149	1888	2387	2093	1860	2296	2040	1833	2210	1990	1807	1719						
4	2781	2258	1893	1624	2697	2214	1871	1614	2131	1828	1595	2053	1786	1577	1980	1746	1558	1472						
5	2564	2027	1667	1409	2488	1990	1649	1402	1919	1615	1388	1853	1582	1375	1791	1550	1362	1279						
6	2375	1834	1484	1238	2306	1802	1469	1233	1742	1442	1223	1685	1415	1213	1632	1389	1203	1124						
7	2209	1671	1332	1100	2147	1644	1321	1096	1592	1298	1089	1543	1276	1081	1498	1255	1074	998						
8	2063	1532	1206	987	2007	1508	1197	984	1464	1178	978	1422	1160	972	1382	1142	967	894						
9	1933	1412	1100	892	1883	1392	1092	890	1353	1076	886	1317	1061	881	1282	1047	877	807						
10																								

Effective Floor Cavity Reflectance: 20%

IES File: **LRTL2X4-LED840K060LUNV**
 Lumens: **N/A**
 Wattage: **42**
 Efficacy: **139**



Zonal Lumen Summary

Zone	Lumens	%Fixture
0.0° - 30.0°	1407	24.1%
0.0° - 40.0°	2318	39.8%
0.0° - 60.0°	4210	72.2%
0.0° - 90.0°	5827	100.0%
0.0° - 110.0°	5827	100.0%
0.0° - 130.0°	5827	100.0%
0.0° - 150.0°	5827	100.0%
0.0° - 170.0°	5827	100.0%
0.0° - 180.0°	5827	100.0%

Average Luminance Table (cd/m2)
CP Summary

	0.00°	45.00°	90.00°
0.00°	2485	2485	2485
45.00°	2616	2482	2343
55.00°	2783	2520	2263
65.00°	3156	2679	2131
75.00°	3991	3186	1859
85.00°	5288	4493	734

Coefficients of Utilization
Values are lumens delivered to the workplane from a single luminaire

pc	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
pw	6937	6937	6937	6937	6775	6775	6775	6775	6474	6474	6474	6199	6199	6199	5946	5946	5946	5827						
0	6242	5923	5637	5379	6077	5788	5527	5290	5536	5319	5121	5304	5126	4962	5090	4947	4813	4684						
1	5628	5097	4658	4289	5468	4984	4579	4236	4772	4430	4135	4576	4289	4038	4395	4157	3945	3811						
2	5104	4438	3923	3512	4953	4343	3865	3479	4164	3753	3415	3999	3648	3353	3846	3548	3293	3158						
3	4656	3909	3362	2945	4517	3830	3318	2923	3679	3233	2880	3539	3152	2839	3409	3075	2799	2665						
4	4272	3479	2925	2516	4145	3412	2891	2501	3285	2825	2472	3166	2761	2443	3056	2700	2415	2285						
5	3939	3124	2577	2184	3824	3067	2550	2173	2959	2497	2152	2858	2446	2132	2764	2398	2111	1986						
6	3649	2827	2294	1920	3545	2778	2272	1912	2686	2230	1897	2600	2189	1882	2519	2149	1867	1746						
7	3395	2576	2061	1707	3300	2534	2043	1701	2455	2008	1689	2381	1975	1678	2311	1943	1667	1551						
8	3170	2362	1866	1531	3085	2326	1852	1527	2258	1823	1518	2194	1795	1509	2133	1768	1500	1390						
9	2971	2177	1702	1385	2894	2146	1690	1382	2087	1666	1375	2032	1643	1368	1979	1620	1361	1256						
10																								

Effective Floor Cavity Reflectance: 20%