

Project:	Catalogue:	Type:
Notes:		

Product Description

The Bevel is a premium-grade, recessed, lay-in T-Bar troffer featuring two angled lenses with a flat center rail. Its modern styling provides depth and high visual comfort with increased glare control. For use with indoor applications where high efficiency, high performance and ease of installation are required.

Applications

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



Features

- 1x4, 2x2, 2x4 and 20x60 configurations
- Standard low voltage 1% dimming (0-10V)
- For use in insulated ceilings

Featured Options

- Intellect occupancy/daylight sensor
- Tunable white
- Circadian lighting
- Emergency lighting battery pack

Optical System

Two angled frosted diffusers.

Mounting

This luminaire has been specifically designed for T-Bar applications. Integral earthquake clips.

Construction

Die-formed, cold rolled heavy-gauge steel housing assembly. Wiring access plates and knockouts are provided on back of housing.

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. Standard low voltage dimming (0-10v) driver.

Warranty

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



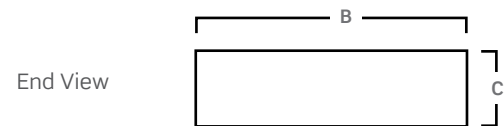
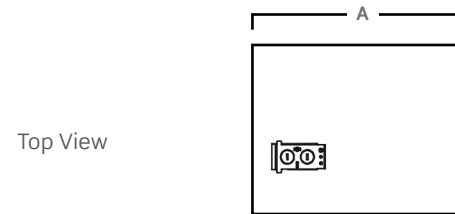
Approvals

- ETL listed. Suitable for damp locations

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



Dimensions



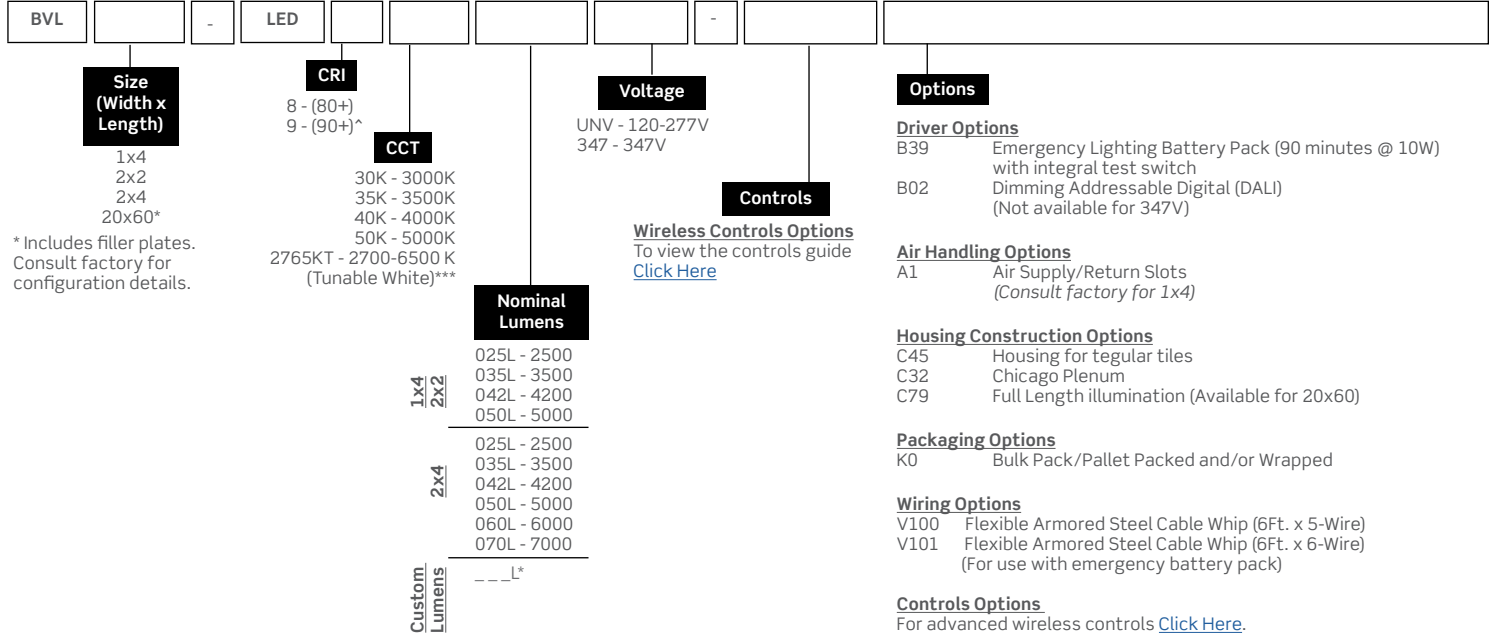
Size	A	B	C
1x4	47.75"	11.75"	4"
2x2	23.75"	23.75"	4"
2x4	47.75"	23.75"	4"
20x60	59.75"	19.75"	4"

Consult installation guide for exact dimensions.

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Order Key

EXAMPLE: BVL2x2-LED840K042LUNV



* Includes filler plates. Consult factory for configuration details.

2765KT - 2700-6500 K (Tunable White)***

[Wireless Controls Options](#)
To view the controls guide [Click Here](#)

Driver Options
B39 Emergency Lighting Battery Pack (90 minutes @ 10W) with integral test switch
B02 Dimming Addressable Digital (DALI) (Not available for 347V)

Air Handling Options
A1 Air Supply/Return Slots (Consult factory for 1x4)

Housing Construction Options
C45 Housing for tegular tiles
C32 Chicago Plenum
C79 Full Length illumination (Available for 20x60)

Packaging Options
K0 Bulk Pack/Pallet Packed and/or Wrapped

Wiring Options
V100 Flexible Armored Steel Cable Whip (6Ft. x 5-Wire)
V101 Flexible Armored Steel Cable Whip (6Ft. x 6-Wire) (For use with emergency battery pack)

Controls Options
For advanced wireless controls [Click Here](#).

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

*** When Selecting 2765KT, if a tunable white-compatible control is not selected the luminaire will come standards with two sets of 0-10V wires for dimming and color tuning (see tunable white diagram for details). For compatible control options please consult factory.

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

Performance Data

LED Performance Data				
Size	Nominal Lumens	Delivered Lumens	Watts	Lumens Per Watt
1x4	2500	2533	19.3	131.4
	3500	3533	27.3	129.3
	4200	4269	33.5	127.6
	5000	4995	39.7	125.8
2x2	2500	2523	18.8	134.2
	3500	3526	27.3	129.4
	4200	4251	33.7	126
	5000	5040	39	118
2x4	2500	2518	17.3	145.6
	3500	3524	24.5	143.6
	4200	4242	29.9	142
	5000	5050	36.1	140.1
	6000	6043	43.9	137.7
	7000	7049	52.1	135.3

Values based on 840K with standard lens at 25C

*Custom Lumens		
Size	Nominal Lumens Range	Watts
1x4	2500 - 5000	20 - 41
2x2	2500 - 5000	21 - 43
2x4 / 20x60	2500 - 7000	20 - 60

*3000Lm Example:
BVL2x2-LED840K030LCUNV

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

Surface Kits (Ordered Separately)	
Size (Width x Length)	Item No.
1x4	KIT00373
2x2	KIT00374
2x4	KIT00375

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

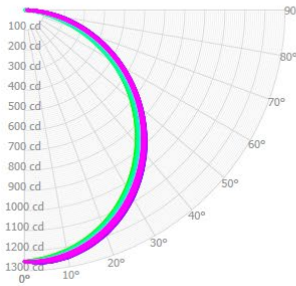
Lifetime Expectancy

	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: **BVL2X2-LED840K035LUNV**
 Lumens: **N/A**
 Wattage: **30**
 Efficacy: **117**



Zonal Lumen Summary

Zone	Lumens	
0.0° - 30.0°	970	27.5%
0.0° - 40.0°	1582	44.9%
0.0° - 60.0°	2777	78.9%
0.0° - 90.0°	3521	100.0%

Average Luminance Table (cd/m²) CP Summary

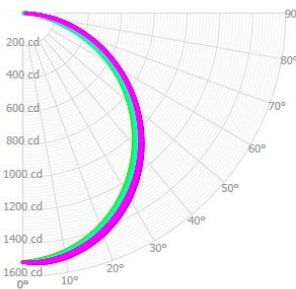
	0.00°	45.00°	90.00°
0.00°	3481	3481	3481
45.00°	3205	3111	3083
55.00°	3068	2950	2915
65.00°	2872	2708	2689
75.00°	2462	2332	2347
85.00°	991	1606	1582

Coefficients of Utilization

pc	80%			80%			70%												
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%
0	4192	4192	4192	4192	4094	4094	4094	4094	3912	3912	3912	3746	3746	3746	3746	3593	3593	3593	3521
1	3827	3658	3506	3369	3731	3577	3439	3314	3427	3313	3209	3290	3197	3110	3162	3088	3018	3022	
2	3478	3186	2944	2742	3385	3119	2897	2709	2994	2806	2645	2878	2721	2584	2771	2641	2526	2583	
3	3170	2797	2508	2278	3082	2741	2473	2257	2635	2405	2216	2538	2342	2177	2447	2282	2140	2231	
4	2902	2477	2166	1929	2821	2430	2140	1915	2341	2089	1888	2259	2040	1862	2182	1993	1837	1949	
5	2668	2213	1895	1660	2594	2174	1875	1651	2098	1835	1633	2028	1797	1615	1963	1760	1597	1722	
6	2464	1993	1676	1449	2397	1959	1660	1443	1895	1628	1429	1836	1598	1417	1780	1569	1404	1536	
7	2285	1807	1497	1280	2224	1778	1484	1275	1724	1459	1265	1673	1434	1256	1625	1410	1246	1382	
8	2128	1649	1348	1141	2072	1625	1338	1138	1578	1317	1131	1534	1297	1124	1493	1278	1117	1253	
9	1988	1514	1223	1027	1938	1493	1215	1024	1452	1198	1019	1414	1181	1013	1379	1165	1008	1143	
10	1864	1397	1117	931	1819	1379	1110	929	1344	1096	925	1311	1082	921	1279	1069	916	1050	

Effective Floor Cavity Reflectance: 20%

IES File: **BVL2X4-LED840K042LUNV**
 Lumens: **N/A**
 Wattage: **34**
 Efficacy: **125**



Zonal Lumen Summary

Zone	Lumens	
0.0° - 30.0°	1171	27.5%
0.0° - 40.0°	1910	44.9%
0.0° - 60.0°	3354	78.9%
0.0° - 90.0°	4252	100.0%

Average Luminance Table (cd/m²) CP Summary

	0.00°	45.00°	90.00°
0.00°	2086	2086	2086
45.00°	1921	1864	1847
55.00°	1839	1768	1747
65.00°	1721	1623	1612
75.00°	1475	1397	1407
85.00°	594	962	948

Coefficients of Utilization

pc	80%			80%			70%												
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%
0	5062	5062	5062	5062	4944	4944	4944	4944	4725	4725	4725	4524	4524	4524	4339	4339	4339	4252	
1	4622	4417	4234	4068	4505	4320	4153	4002	4139	4001	3875	3972	3860	3756	3819	3729	3644	3649	
2	4200	3847	3556	3311	4088	3767	3498	3271	3615	3389	3194	3475	3286	3121	3346	3190	3051	3119	
3	3828	3377	3028	2750	3722	3310	2986	2725	3182	2905	2676	3065	2828	2629	2955	2755	2584	2694	
4	3504	2992	2616	2329	3406	2935	2584	2313	2828	2522	2280	2728	2463	2249	2635	2407	2218	2354	
5	3222	2673	2289	2005	3132	2625	2264	1994	2534	2216	1972	2450	2170	1950	2371	2125	1928	2079	
6	2976	2407	2024	1750	2894	2366	2005	1742	2289	1967	1726	2217	1930	1711	2150	1895	1695	1855	
7	2760	2182	1808	1545	2686	2148	1792	1539	2082	1761	1528	2020	1732	1516	1962	1703	1505	1669	
8	2569	1992	1628	1378	2502	1962	1615	1374	1906	1590	1365	1852	1566	1357	1803	1543	1348	1513	
9	2401	1828	1477	1240	2340	1803	1467	1237	1754	1446	1230	1708	1426	1224	1665	1407	1217	1381	
10	2251	1687	1349	1125	2196	1665	1341	1122	1623	1323	1117	1583	1307	1112	1545	1290	1107	1267	

Effective Floor Cavity Reflectance: 20%

Tunable White

When Selecting 2765KT, if a tunable white-compatible control is not selected the luminaire will come standard with two sets of 0-10V wires for dimming and color tuning. For compatible control options please consult factory.

Dim and CCT control wire colors are subject to change without notice. All control wires are marked per the parentheses.

