

Lumination™ LED Luminaires

1' x 4' Recessed Troffer

BR14 Series



Project name _____

Date _____

Type _____

Product Description:

The Lumination BR Series LED Luminaire is a commercial ceiling troffer that provides high uniformity, excellent efficiency and reduced glare in T-grid ceiling applications. The improved lumen maintenance of L85 of initial lumens at 50,000 hours of operation, allows lower maintenance costs over time. It is suitable for indoor general lighting.

Targeted Performance Summary:

Distribution Patterns: Lambertian

Delivered Lumen Output: 4000 lm (4000K), 3800 lm (3500K)

System Input Power: 42W

Standard Dimming Compatibility: 0-10V

Efficacy: 95 LPW (4000K), 90 LPW (3500K)

Input Voltage: 120-277V

CCT: 3500K, 4000K

Typical CRI: 80+, R9: >0

Color Consistency: 4 Step MacAdam Ellipse

Lifetime Rating: 50,000 Hours @ L85

Input Frequency (Hz): 50/60Hz

Power Factor: >0.9

Dimensions: UL Version: 11.8 in x 47.7 in x 4.5 in

THD: <20%

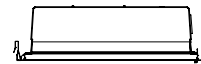
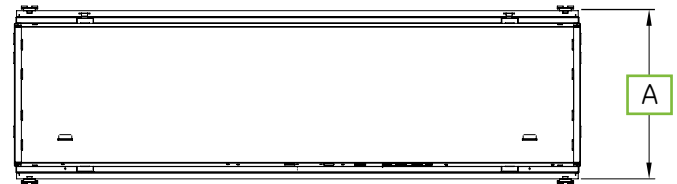
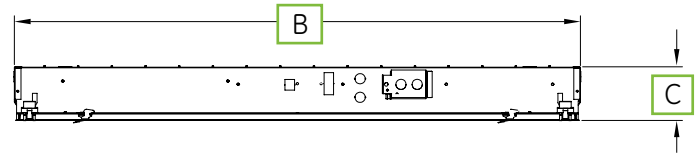
Mounting: Fits standard T-Bar grid (drop ceilings)

Maximum Weight: 20 lbs

Limited Warranty: 5 Years Standard

Files Available: LM79, LM80, IES

Product Dimensions:



UL Version: A = 11.8 in B = 47.7 in C = 4.5 in

a product of
ecomagination™

Certified by: 

Ordering Information:

BR - - - - - **A** - - - - - **WHITE** -

INTERNAL CODE	FIXTURE TYPE (NOMINAL)	VOLTAGE	OPTICAL CODE	MOUNTING LOGIX COMPATIBLE	CONTROLLER	FINISH	OPTIONS
BR	14 = 1' x 4'	0 = 120-277V (UL Version) D = 347V		A = T-Grid, Bolt Slot	V = 0-10V	WHITE = White	Blank if no options E = Lutron Ecosystem H = Chicago Plenum, CCEA EH = Lutron Ecosystem Module & Chicago Plenum, CCEA EL = Emergency Light (1400 Lumens)

OPTICAL CODE	DISTRIBUTION TYPE	CRI	COLOR TEMP (K)	TYPICAL LUMENS	SYSTEM WATTAGE
A2	Lambertian	80	3500	3800	42 W
A3	Lambertian	80	4000	4000	42 W



imagination at work

Photometric Data: Lumination™ 1' x 4' Recessed Troffer BR 14 Series

1BY4 ULIES

CANDLEPOWER SUMMARY				
	0	30	60	90
0	1755	1756	1756	1756
5	1760	1751	1741	1740
10	1733	1721	1709	1707
15	1685	1669	1654	1650
20	1618	1600	1576	1562
25	1530	1509	1476	1457
30	1427	1402	1363	1342
35	1310	1282	1241	1217
40	1183	1154	1112	1087
45	1051	1021	980	956
50	916	887	848	828
55	779	754	720	703
60	644	625	597	580
65	514	499	475	458
70	390	378	356	339
75	274	264	242	229
80	164	158	141	133
85	73	67	57	51
90	5	4	3	3

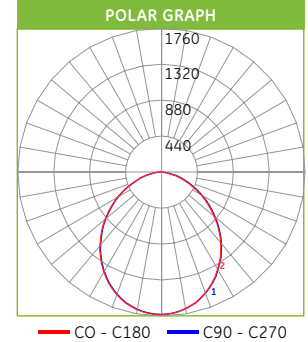
COEFFICIENTS OF UTILIZATION																	
RC	80%				70%				50%			30%			10%		
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY		
Zone	Lumens	% of Fixture
0-30°	1320	30.3
0-40°	2108	48.4
0-60°	3537	81.2
0-90°	4358	100.0

Total Luminaire Efficiency = N.A. %

LUMINANCE DATA (CANDELA/m²)			
Gamma	0°	45°	90°
45°	5366	5094	4880
55°	4899	4631	4423
65°	4388	4159	3911
75°	3821	3515	3193
85°	3019	2541	2128



Product Specifications:

Construction:

- Durable, long lasting bezel construction. Steel, Electro galvanized, Cold-rolled, Commercial quality paint coating.
- IP Rating: IP20

Electrical System:

- Class 1, replaceable, high efficiency LED driver rated for 50,000 hours or more when used within operating conditions.
- THD: <20%
- Transient Protection: 100 kHz ring wave, 2 kV level
- Environmental Testing: High Temperature High Humidity: 60°C /90% (non-condensing)
- Input Current: 120V/42W - 350mA
230V/42W - 183mA
277V/42W - 152mA

Optical System:

- Precision formed optical assembly comprised of high specular reflectors, and a transmissive lens in an easily removeable door
- High optical grade lens providing good efficiency and impact resistance
- No visible diodes

Installation:

- Drivers and internal components accessed via drop down door.
- Suitable for dry locations.
- Integrated galvanized PSU enclosure delivers low profile and ease of installation
- Luminaire Vibration Testing: Luminaire test to 0.5 G, 100,000 cycles per axis, 2 axis

For more information and access to all of our resources, including our design tool visit: www.gelighting.com



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