

Lumination™ LED Luminaires

2' x 4' Recessed Luminaire

BT24 Dimmable Series



Project name _____

Date _____

Type _____

Product Description:

The Lumination BT Dimmable Series LED Luminaire is a commercial ceiling luminaire that provides high uniformity, excellent efficiency and reduced glare in T-grid ceiling applications. The improved lumen maintenance off greater than L70 of initial lumens at 50,000 hours of operation, allows lower maintenance costs over time. It is suitable for indoor general lighting.

Performance Summary:

Distribution Patterns: Lambertian

Delivered Lumen Output: 4700 lm (4000K), 4500 lm (3500K)

System Input Power: 43 W

Standard Dimming Compatibility: 0-10V

Efficacy: 109 LPW (4000K), 105 LPW (3500K)

Input Voltage: 120-277V, 347V

CCT: 3500K, 4000K

Typical CRI: 80+, R9: >0

Color Consistency: 4 Step MacAdam Ellipse

Lifetime Rating: 50,000 Hours @ L70

Input Frequency (Hz): 50/60Hz

Power Factor: >0.9

Dimensions: UL Version: 47.7 in x 23.9 in x 3.5 in

THD: <20%

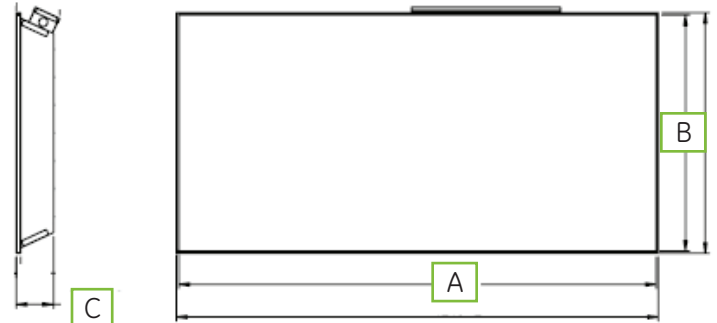
Mounting: Fits standard T-Bar grid (drop ceilings)

Maximum Weight: 20 lbs

Limited Warranty: 5 Years Standard

Files Available: LM79, LM80, IES

Product Dimensions:



UL Version: A = 47.7 in [1211 mm] B = 23.9 in [606 mm] C = 3.5 in [89 mm]

Certified by:  

Please refer to the DLC QPL website for the latest and most complete information.
www.designlights.org/QPL

a product of
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Ordering Information:

BT	24			A	V	WHITE	
INTERNAL CODE	FIXTURE TYPE (NOMINAL)	VOLTAGE	OPTICAL CODE	MOUNTING LOGIX COMPATIBLE	CONTROLLER	FINISH	OPTIONS
BT	24 = 2' x 4'	0 = 120-277V (UL Version) D = 347V		A = T-Grid, Bolt Slot	V = 0-10V Dimming	WHITE = White	Blank if no options H = Chicago Plenum, CCEA EL = Emergency Light

OPTICAL CODE	DISTRIBUTION TYPE	CRI	COLOR TEMP (K)	TYPICAL LUMENS	SYSTEM WATTAGE
D2	Lambertian	80	3500	3000	27
D3	Lambertian	80	4000	3000	27
A2	Lambertian	80	3500	4500	43
A3	Lambertian	80	4000	4700	43



imagination at work

Photometric Data: Lumination™ 2' x 4' Recessed Luminaire BT 24 Series

BT-24-0-A3-A-V-WHTE-X.IES

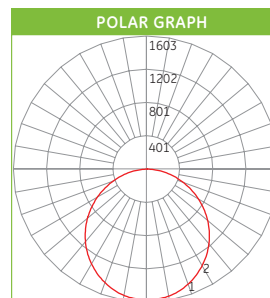
COEFFICIENTS OF UTILIZATION																					
RC	80%				70%				50%				30%				10%				0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	83	83	
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	71	68	68	
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	60	57	57	
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	51	49	49	
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	44	42	42	
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	39	37	37	
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	34	32	32	
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	31	29	29	
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	28	26	26	
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	25	23	23	

Effective Floor Cavity Reflectance 0.20

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	587.72	N.A.	12.50
0-30	1246.88	N.A.	26.50
0-40	2043.37	N.A.	43.50
0-60	3627.76	N.A.	77.20
0-80	4573.37	N.A.	97.30
0-90	4686.41	N.A.	99.70

Total Luminaire Efficiency = N.A. %

LUMINANCE DATA (CD/SQ.M)			
Angle in Degrees	0°	45°	90°
45°	2227	2223	2222
55°	2158	2155	2155
65°	2055	2055	2058
75°	1913	1909	1910
85°	1715	1700	1722



ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	151.95
10-20	435.77
20-30	659.15
30-40	796.49
40-50	829.00
50-60	755.39
60-70	587.78
70-80	357.82
80-90	113.04
90-100	2.36
100-110	2.07
110-120	1.93
120-130	1.67
130-140	1.55
140-150	1.46
150-160	1.27
160-170	0.83
170-180	0.23

Product Specifications:

Construction:

- Durable, long lasting bezel construction. Steel, Electrogalvanized, Cold-rolled, Commercial quality coated with Electrostatic Powder Coat Paint
- IP Rating: IP20

Electrical System:

- Class 2, replaceable, high efficiency LED driver rated for 50,000 hours 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/43W-358mA
230V/43W-187mA
277V/43W-155mA

Optical System:

- Precision formed optical assembly comprised of high specularly reflectors, and a transmissive lens.
- High optical grade lens providing good efficiency and impact resistance
- No visible diodes

Installation:

- Drivers and internal components accessed via plenum.
- Suitable for dry locations.
- Mounting brackets part of luminaire. Mounting holes provided for hanging wire.
- 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

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