

# Lumination® LED Luminaires

LBU Recessed Luminaire

LBU22 Series -Back lit T-Grid, Disinfection Series D-Light



Project name \_\_\_\_\_  
Date \_\_\_\_\_  
Type \_\_\_\_\_

## Product Description:

Current's Lumination® LBU Series Recessed LED Luminaires offer a conventional look similar to the LBT Series, but with significantly more capability. In addition to delivering a smooth uniform lit appearance with LED technology, LBU series also provides disinfection lighting in areas where both conventional light is needed and people are present. Lab and clinical testing has shown this product has the ability to significantly reduce HAI-causing pathogens including MRSA, bacteriophage MS2, *Staphylococcus aureus*, *Enterococcus faecalis*, *Escherichia coli*, *Acinetobacter baumannii*, *Pseudomonas aeruginosa*, *Candida albicans* and *aeris*.

## Technical Summary:

**Technology:** Current's patented disinfection technology is capable of 1+ log kill of common HAI-causing pathogens with a single 8-hour exposure using in-vitro test methods.

**Safety:** Product is safe for use in the presence of people for episodic (8-hour) or continuous (24h) exposure under IEC photobiological safety standard 62471

**Disinfection Light Source:** The UV-A LED light source is invisible and has no safety risk to humans. Certain white objects or fabrics may glow slightly under the disinfection light source.

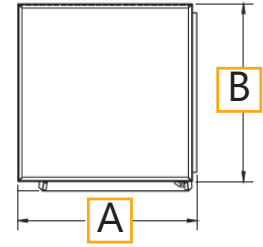
**Light Control:** The UV-A LED disinfection light source and the white LED light source are controlled independently using hard-wired or wireless controls. The disinfection UV-A light source power has fixed output while the white LED light source is dimmable to 5%

Note: All Technical claims are based upon proper installation of fixture

## Product Dimensions:



A = 23.82in (605mm)  
B = 23.82in (605mm)  
C = 3.5in (39mm)



## Product Availability:

**Product Ordering:** At the present time, product can be ordered for general use or clinical trials for those seeking to prove that Current's Patented technology works in their environment.

**Clinical Testing:** Ideally, a test partner will be led by a principal investigator experienced in hospital infectious diseases who is knowledgeable in developing and running epidemiological studies.

**Initiating a Clinical Trial Partnership:** Please work with your local GE Current, a Daintree Company sales rep. They will put you in contact with the appropriate technical resources to set up a discussion and review options to develop a plan for a successful trial.

## Ordering Information:

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBU-	UV	CRI/CRT	CONTROLS	MOUNTING	FINISH	OPTIONS
LBU = Lumination Backlit UV	22 = 2' x 2'	A = 1st Generation	0 = 120-277V	22 = 2200 Lumen Level 33 = 3300 Lumen Level 40 = 4000 Lumen Level	MM = Med. Lambertain	8H = Episodic high intensity AD = Nominal Lumen Level	835 = 80CRI, 3500K 840 = 80CRI, 4000K	VQ = 0-10V Dimming TQ = Wireless Enabled, Daintree Compatible	LT = T-Grid	WHITE = White	(blank) = None CP = Chicago Plenum

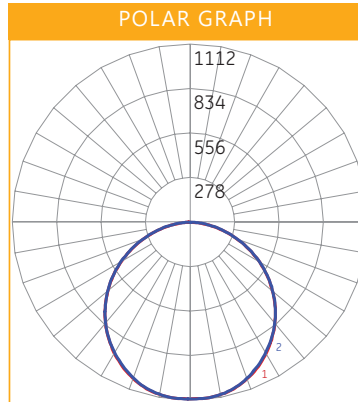
PRODUCT CODE	CATALOGIC	LUMENS	CCT	UV OUTPUT	TOTAL SYSTEM W
93124566	LBU22A033MM8H835VQLTWHITE	3300	3500	8h High intensity	110
93124567	LBU22A033MMAD835VQLTWHITE	3300	3500	24h continuous	45
93124568	LBU22A033MM8H840VQLTWHITE	3300	4000	8h High intensity	110
93124569	LBU22A033MMAD840VQLTWHITE	3300	4000	24h continuous	45

ACCESSORIES	DESCRIPTION CODE	PRODUCT CODE
Drywall mount kit 2' x 2'	GESK07	67657
2' X 2' Surface Mount kit for backlit T-grid	B22 SMK	212462

# Photometric Data: Lumination® 2' x 2' LBU22 Series

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10°	105.23
10-20°	302.53
20-30°	460.02
30-40°	557.81
40-50°	583.15
50-60°	532.83
60-70°	414.99
70-80°	251.86
80-90°	79.83
90-100°	1.97
100-110°	1.63
110-120°	1.59
120-130°	1.54
130-140°	1.52
140-150°	1.37
150-160°	1.04
160-170°	0.78
170-180°	0.29

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	407.76	N.A.	12.40
0-30°	867.78	N.A.	26.30
0-40°	1425.59	N.A.	43.20
0-60°	2541.57	N.A.	77.00
0-80°	3208.42	N.A.	97.20
0-90°	3288.25	N.A.	99.60
10-90°	3183.02	N.A.	96.50
20-40°	1017.82	N.A.	30.80
20-50°	1600.97	N.A.	48.50
40-70°	1530.98	N.A.	46.40
60-80°	666.85	N.A.	20.20
70-80°	251.86	N.A.	7.60
80-90°	79.83	N.A.	2.40
90-110°	3.60	N.A.	0.10
90-120°	5.19	N.A.	0.20
90-130°	6.73	N.A.	0.20
90-150°	9.62	N.A.	0.30
90-180°	11.73	N.A.	0.40
110-180°	8.13	N.A.	0.20
0-180°	3299.98	N.A.	100.00



**1 - White light output**  
**2 - UV-A light output**

Contact your Sales representative for UV-A photometric data

## Product Specifications:

### LED & Optical:

**CRIa:** >80+  
**R9:** >0  
**Color Consistency:** Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control  
**Rated Luminaire Lumen Depreciation:** L85@50,000 Hours

### Electrical System:

**Input Voltage:** 120-277 VAC  
**Input Frequency:** 50/60 Hz  
**System Power Factor (PF):** >0.9\*  
**Total Harmonic Distortion (THD):** <20%\*  
**LED Driver Type:** Class 2  
*\*PF and THD may vary with options*

### Ratings and Evaluations:

**Operating Temperature:** -20°C to +25°C  
**Storage Temperature:** -40°C to +70°C  
**Surge Protection:** ANSI C82.77 Compliant  
**Location:** Damp  
**Safety:** UL/cUL Classified  
**Environmental:** Compliant with material restrictions of RoHS

### Construction & Finish:

**Housing:** Durable, long lasting construction. Steel, electrogalvanized, powder-coated  
**Lensing:** UV rated, tempered glass diffuser  
**Paint:** Highly reflective white gloss finish  
**Weight:** <25 pounds

### Design Life & Warranty:

**System Warranty:** 5 Year  
**Driver Design Lifetime:** > 10 year life of continuous operation, > 100,000 hour design parameters  
**Reliability Testing:** Components and systems evaluation

### Controls:

**Standard Dimming:** 0-10VDC ANSI C137.x compliant  
**Minimum Dimming:** 5% of rated lumen LED drive current  
**Optional Dimming:** Contact Manufacturer  
**Wireless Networking and Sensing Device Options\***  
 Daintree Enterprise Wireless enabled **Power Addition for Controls:** <2 watts

*\*Contact Factory for specific option availability*

### Mounting:

**Typical Mounting:** Fits standard T-Bar grid (dropceilings)  
**Wiring Access:** ½" trade-size KOs on a removable access plate provided  
**T-grid Clips:** T-grid clips included on fixture body, with holes for seismic wires  
**Surface Mounting:** Surface mount kit available.

### Accessories & Options:

Contact your GE Current, a Daintree Company sales representative for available options. For more information and access to all of our resources, including our design tools, visit: [www.gecurrent.com](http://www.gecurrent.com)

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