

Lumination® LED Luminaires

LBR 22 Series - Backlit Recessed
2' x 2' LED Recessed Luminaire



CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

Lumination® LBR Series Recessed LED Luminaires are for commercial ceilings providing high uniformity, excellent efficiency and reduced glare for T-grid ceiling applications. The lumen maintenance of greater than L85 at 50,000 hours operation, allows for lower maintenance costs. With access to the power supply through a drop down door frame, it is suitable for indoor general lighting for both new construction and retrofit luminaire replacements.

CONSTRUCTION

Housing:	Durable, long lasting steel construction. Steel, electrogalvanized, cold-rolled, commercial quality
Lens:	Precision formed optical assembly drop down door with access to the power supply from underneath the ceiling plane comprised of high specularly reflective paint
Paint:	Post painted powder coat finish on housing
Weight:	<11lbs

OPTICAL SYSTEM

Lumens:	Up to 5000 Lumens
Wattage:	Up to 43.5 Watts
Efficacy:	Up to 122 LPW
CCT:	3500K/4000K/5000K
CRI:	80+, R9 >0
Distribution:	Medium Lambertian
Color Consistency:	Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control

ELECTRICAL

Input Voltage:	120-277V, 347V
Input Frequency:	50/60 Hz
Standard Dimming Control:	0-10v Dimming
Power Factor (PF)*:	>0.9*
Total Harmonic Distortion (THD)*:	<20%*
LED Driver Type:	Class 2

* PF and THD may vary with options

CONTROLS

Dimming: 0-10v Dimming

Sensors: Daintree Compatible
(see Ordering for additional info)

LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-20°C to +35°C (-4 °F to +95 °F)
STORAGE TEMPERATURE	-40°C TO +70°C (-40 °F to +158°F)

LUMEN MAINTENANCE

LXX(10K) @ Hours 50,000 HR
L85

MOUNTING

- **Typical Mounting:** Fits standard T-Bar grid (drop ceilings)
- **Wiring Access:** ½" trade-size KO's on a removable access plate provided
- **T-grid Clips:** T-grid clips included, with holes for seismic wires
- **Surface Mounting:** Surface mount kit available

DESIGN LIFE & WARRANTY

- Damp Location rated
- UL/cUL Listed
- RoHS compliant
- ANSI C82.77 Compliant
- Reliability Testing: Components and systems evaluation
- Current's Limited Warranty:
System Warranty: 5 Year (Please refer to document **IND599** for more information)
- Luminaire Design Lifetime: >10 Years
- Driver Design Lifetime: >10 year life, continuous operation
- >100,000 hour design parameters

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Catalog Logic and Accessories

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Ordering Information

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LBR = Lumination Backlit Recessed	22 = 2' x 2'	A = 1st Generation	0 = 120-277V D = 347V	20 = 2000 33 = 3300 40 = 4000 50 = 5000	MM = Med. Lambertian	835 = 80CRI, 3500K 840 = 80CRI, 4000K 850' = 80CRI, 5000K		LT = T-Grid	WHITE= White	(blank) = None CP = Chicago Plenum EL ³ = Emergency Light B2 ⁴ = Emergency Bypass - Dual Shunt Relay to be used with building generator backup systems to override dimming

EXAMPLE CONFIGURATIONS	LUMINAIRE LUMENS	LUMINAIRE TOTAL SYSTEM WATTS	LUMINAIRE LPW ⁵
LBR22A020MM835VQLTWHITE	2000	16.5	121
LBR22A033MM835VQLTWHITE	3300	27.0	122
LBR22A040MM835VQLTWHITE	4000	34.0	118
LBR22A050MM835VQLTWHITE	5000	43.5	115
LBR22A020MM840VQLTWHITE	2000	16.5	121
LBR22A033MM840VQLTWHITE	3300	27.0	122
LBR22A040MM840VQLTWHITE	4000	34.0	118
LBR22A050MM840VQLTWHITE	5000	43.5	115
LBR22A020MM850VQLTWHITE	2000	16.5	121
LBR22A033MM850VQLTWHITE	3300	27.0	122
LBR22A040MM850VQLTWHITE	4000	34.0	118
LBR22A050MM850VQLTWHITE	5000	43.5	115

CONTROL OPTIONS	DESCRIPTIONS
VQ	0-10v Dimming
TQ	Daintree Enterprise Wireless Enabled ²
TS	Daintree Enterprise Wireless Enabled with Daintree WFA100
TZ	Daintree Enterprise Wireless with fixture integrated sensor
TT	Daintree EZ Connect Wireless with fixture integrated sensor
T1	Daintree One with fixture integrated sensor with factory programmed preset ⁴
SQ	Digital Input Driver (does not have 0-10v input) that uses a field installed accessory (in the ceiling -not the fixture) that is Daintree compatible such as Daintree One, EZ Connect or Enterprise sensors

Ordering Notes:

- Contact manufacturer for lead times
- Most commonly ordered for Daintree Enterprise Wireless Enabled
- EL option not available in 347V. Test switch is remote mounted on a wall or ceiling next to fixture.
- Contact manufacturer prior to ordering to confirm application, not available on VQ control option.
- Most Standard base SKU's are DLC, there are exceptions for 347V and EL for meeting PF and/or THD results. Please check the DLC QPL.

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

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Additional Information

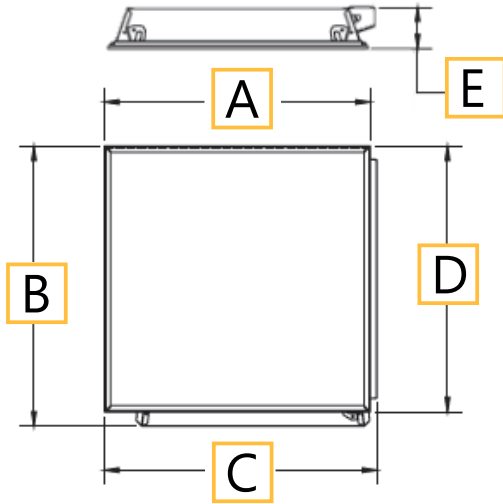
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DIMENSIONS

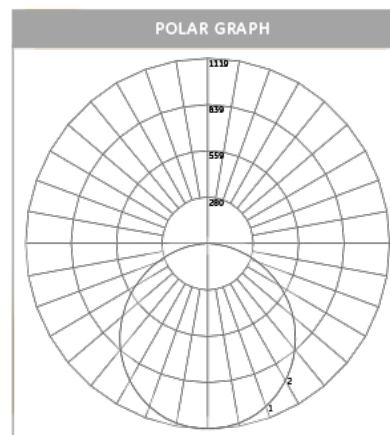


- A** = 23.82in (1214mm)
- B** = 25.10in (637mm)
- C** = 24.40in (1229mm)
- D** = 23.82in (605mm)
- E** = 3.76in (96mm)

PHOTOMETRIC DATA

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% OF FIXTURE
0-20	409.88	12.40
0-30	872.32	26.30
0-40	1433.04	43.40
0-60	2554.61	77.60
0-80	3217.82	97.60
0-90	3293.55	99.80
10-90	3187.77	96.70
20-40	1023.16	31.00
20-50	1609.28	48.90
40-70	1536.86	46.90
60-80	663.21	20.10
70-80	247.92	7.10
80-90	75.73	2.20
90-110	1.90	0.10
90-120	2.63	0.10
90-130	3.43	0.10
90-150	5.12	0.10
90-180	6.45	0.20
110-180	4.55	0.10
0-180	3300.00	100.00

ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0-10	105.79
10-20	304.09
20-30	462.44
30-40	560.71
40-50	586.13
50-60	535.45
60-70	415.29
70-80	247.92
80-90	75.73
90-100	1.16
100-110	0.74
110-120	0.73
120-130	0.80
130-140	0.86
140-150	0.84
150-160	0.70
160-170	0.46
170-180	0.17



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Controls & Options

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DAINTREE CONTROLS

Daintree® Wireless Controls:

There is no one size fits all for wireless controls. Some networks want simple solutions that reduce energy consumption and meet code compliance while others are more ambitious, looking to capitalize on the LED and controls savings to fund a scalable, enterprise-grade, internet of things solution. The advantage of the Daintree® Wireless platform is its ability to integrate into indoor, outdoor and high bay environments. The Daintree® Wireless Controls provide the infrastructure to future proof your buildings, easily upgrade to Networked solutions and provide the ability to integrate into IoT solutions that are right for your business.

- **Daintree® One:** Standalone Wireless Controls
- **Daintree® EZ Connect:** Room-Based Wireless Lighting Controls
- **Daintree® Networked:** Networked Lighting Controls for Smart Building & IoT Enablement

Daintree® Wireless Controls are already integrated in your favorite Current LED fixtures. Integrating the controls into the fixture cuts labor costs considerably since the sensors are already embedded in the lighting fixtures. There's no need to get above the ceiling plenum and install additional devices.

Visit our website <https://products.gecurrent.com> for a complete list of LED Fixtures.

OPTIONS

Optional Emergency Battery:

Provides 90-minutes of Emergency lighting. Note, EL option is not available with 347V option. Initial design lumen output: 1400 lumens

Optional Chicago Plenum:

Openings in recessed fixture sealed per requirements for CCEA

Optional Bypass Relay:

Overrides dimming when emergency generator is used (see ordering notes for limitations)