

# Lumination® LED Luminaires

LBR 14 Series - Backlit Recessed

1' x 4' 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

<b>Housing:</b>	Durable, long lasting steel construction. Steel, electrogalvanized, cold-rolled, commercial quality
<b>Lens:</b>	Precision formed optical assembly drop down door with access to the power supply from underneath the ceiling plane comprised of high specular reflective paint
<b>Paint:</b>	Post painted powder coat finish on housing
<b>Weight:</b>	< 16lbs

## OPTICAL SYSTEM

<b>Lumens:</b>	Up to 6000 Lumens
<b>Wattage:</b>	Up to 58 Watts
<b>Efficacy:</b>	Up to 118 LPW
<b>CCT:</b>	3500K/4000K/5000K
<b>CRI:</b>	80+, R9 >0
<b>Distribution:</b>	Medium Lambertian
<b>Color Consistency:</b>	Central limit 4-Step MacAdam Ellipse with LED recipe approach for tight unit to unit color control

## ELECTRICAL

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

\* PF and THD may vary with options

## CONTROLS

<b>Dimming:</b>	0-10v Dimming
<b>Sensors:</b>	Daintree Compatible (see Ordering for additional info)

## LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
<b>OPERATING TEMPERATURE</b>	-20°C to +35°C (-4 °F to +95 °F)
<b>STORAGE TEMPERATURE</b>	-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:** 1/2" trade-size KOs 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

**LBR 14 A MM LT WHITE**

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI/CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LBR = Lumination Backlit Recessed	14 = 1' x 4'	A = 1 <sup>st</sup> Generation	0 = 120-277V D = 347V	15 = 1500 20 = 2000 30 = 3000 40 = 4000 50 = 5000 60 = 6000	MM = Med. Lambertian	835 = 80CRI, 3500K 840 = 80CRI, 4000K 850 <sup>+</sup> = 80CRI, 5000K		LT = T-Grid	WHITE= White	(blank) = None CP = Chicago Plenum EL <sup>1</sup> = Emergency Light BZ <sup>4</sup> = 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 <sup>5</sup>
LBR14A015MM835VQLTWHITE	1500	13.0	115
LBR14A020MM835VQLTWHITE	2000	17.0	118
LBR14A030MM835VQLTWHITE	3000	25.5	118
LBR14A040MM835VQLTWHITE	4000	36.0	111
LBR14A050MM835VQLTWHITE	5000	45.5	110
LBR14A060MM835VQLTWHITE	6000	58	103
LBR14A015MM840VQLTWHITE	1500	13.0	115
LBR14A020MM840VQLTWHITE	2000	17.0	118
LBR14A030MM840VQLTWHITE	3000	25.5	118
LBR14A040MM840VQLTWHITE	4000	36.0	111
LBR14A050MM840VQLTWHITE	5000	45.5	110
LBR14A060MM840VQLTWHITE	6000	58	103
LBR14A015MM850VQLTWHITE	1500	13.0	115
LBR14A020MM850VQLTWHITE	2000	17.0	118
LBR14A030MM850VQLTWHITE	3000	25.5	118
LBR14A040MM850VQLTWHITE	4000	36.0	111
LBR14A050MM850VQLTWHITE	5000	45.5	110
LBR14A060MM850VQLTWHITE	6000	58	103

CONTROL OPTIONS	DESCRIPTIONS
VQ	0-10v Dimming
TQ	Daintree Enterprise Wireless Enabled <sup>2</sup>
TS	Daintree Enterprise Wireless Enabled with Daintree WFA100
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 1' x 4'	GESK09	69068
1' x 4' Surface Mount kit for Backlit T-grid	B14SMK	212464

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## Additional Information

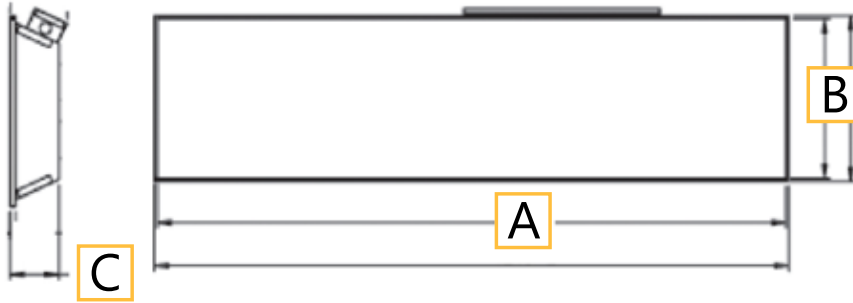
### CUSTOMER NAME

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## DIMENSIONS

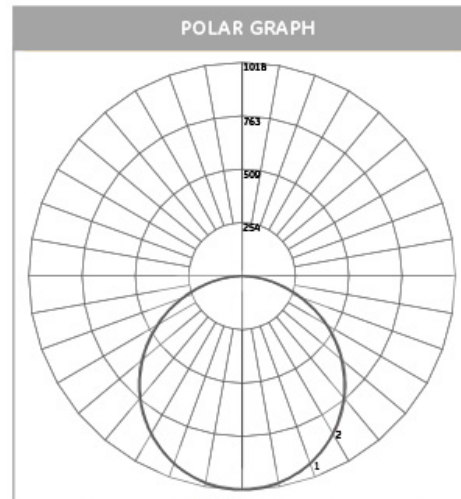


A = 47.8in B = 11.8in C = 3.5in

## PHOTOMETRIC DATA

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	% OF FIXTURE
0-20	372.08	12.40
0-30	791.82	26.40
0-40	1301.06	43.40
0-60	2321.45	77.40
0-80	2926.35	97.50
0-90	2994.84	99.80
10-90	2898.73	96.60
20-40	928.98	31.00
20-50	1462.01	48.70
40-70	1398.89	46.60
60-80	604.90	20.20
70-80	226.40	7.50
80-90	68.49	2.30
90-110	1.15	0.00
90-120	1.72	0.10
90-130	2.35	0.10
90-150	3.84	0.10
90-180	5.16	0.20
110-180	4.01	0.10
0-180	3000.00	100.00

ZONAL LUMEN SUMMARY	
ZONE	LUMENS
0-10	96.11
10-20	275.95
20-30	419.74
30-40	509.24
40-50	533.03
50-60	487.36
60-70	378.50
70-80	226.40
80-90	68.49
90-100	0.64
100-110	0.51
110-120	0.56
120-130	0.64
130-140	0.73
140-150	0.77
150-160	0.68
160-170	0.47
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)