

The Rankin Series

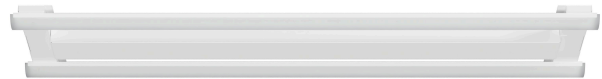
BRLR - Recessed Retrofit Kit

Project

Date

Part

Type



About The Rankin Series

The BRLR is an LED retrofit kit offering up to 50% in energy savings over a traditional T8 fixture. It has been designed to convert existing 2x2, 1x4 and 2x4 recessed troffers from T8 or T12 to LED. Its flexibility and simple installation make it easy to take advantage of improved energy-efficiency and performance.

Specifications

Supported Voltage	120-277V, 347V, 120-347V, 480V
Available Sizes	1x4', 2x2', 2x4'
Lifetime	L70 of 110,000+ hours, L90 of 34,000+ hours
Operating Temperature	-20°C/+25°C
Lumens	Lumen output ranging from 2L (2071lm) to 6L (6064lm)
CCT	2700K, 3000K, 3500K, 4000K, 5000K, 6500K
CRI	80+ standard, 90+ and 95+ available
Dimming	0-10V Standard

Approvals

- ETL Listed
- DLC Listed
- Dry and Damp Environment Rated
- Designed and Manufactured in Canada

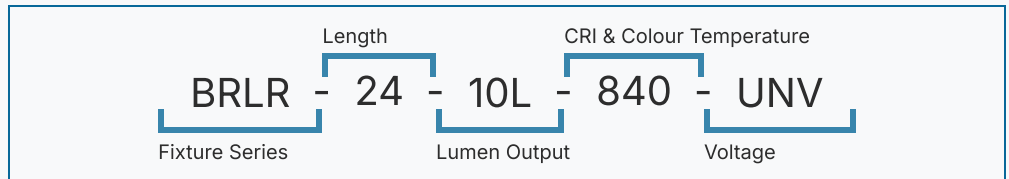
Warranty

- 5 Year Comprehensive, 10 Year LED

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Please use the diagram to the right as an example of a completed order code. If you need any assistance contact your local sales representative.



1	2	3	4	5	6
Series	Size	Lumen Output	CRI	CCT	Voltage
BRLR	14 1x4'	1x4-2L 2000 lm	8 80	27 2700K	UNV 120-
	22 2x2'	1x4-3L 3000 lm	9 90+	30 3000K	277V
	24 2x4'	1x4-4L 4000 lm	1 95+	35 3500K	347 347V
		1x4-5L 5000 lm		40 4000K	UN3 120-
		2x2-2L 2000 lm		50 5000K	347V
		2x2-3L 3000 lm		65 6500K	480 480V
		2x2-4L 4000 lm			
		2x2-5L 5000 lm			
		2x4-3L 3000 lm			
		2x4-4L 4000 lm			
		2x4-5L 5000 lm			
		2x4-6L 6000 lm			
		2x4-7L 7000 lm			
		2x4-8L 8000 lm			
		2x4-9L 9000 lm			
		2x4-10L 10000 lm			

Options

Lenses

BLANK | Frosted Lens

Finish

BLANK | Standard Gloss White
 C5 | Matte Black
 CUSTOM* | Custom Colour Choice

Wireless Controls

WCAWN | Lutron Athena (Node)
 WCAWNS | Lutron Athena (Sensor)
 WC10 | Encelium
 WC18 | NX Wireless
 WC19 | Avi-on
 WC22 | JDRF Autonomy
 WC31 | Keilton
 WCxx | Other Options Available*

Dimming

B11 | 0-10V Dimming Leads
 B12 | Line Voltage Dimming
 B27 | Dim-to-off Driver
 B** | Other Options Available*

Emergency Driver

B17 | UL924 10W Battery Backup
 B36 | UL924 14W 2 Hour Battery Backup
 F8 | UL924 Emergency Relay

Packaging

BLANK | Individually Boxed on Pallets
 P0 | Bulk Packaging

Warranty

CL7 | 10-Year Comprehensive Warranty Upgrade

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Retrofit Lighting by 


Documentation and Resources

All files and resources are available on our website for download. Files and resources are also embedded as links in this document, listed below. Additional files may be available upon request.

Please contact your local sales agent [here](#) or contact sales@bjtake.com for more information.






 [BRLR 14 Retrofit Kit Instructions 2025](#)

 [BRLR Retrofit Kit Instructions 2025](#)

 [BRLR - Photometry](#)

Certifications and Listings

Certifications that apply to this fixture and its possible configurations are listed here. More information available upon request.

Icon	Description
	ETL Listed
	DLC Listed
	Wireless Controls Available
	90 and 95+ CRI Options Available
	120-347V(UN3) Available

Usage Applications

This fixture can be used in a variety of applications, and is ideal for the following:

Usage Application
Manufacturing Facilities
Storage
Offices
Schools
Retail Stores
Distribution Facilities
Processing Plants
Aisle Lighting

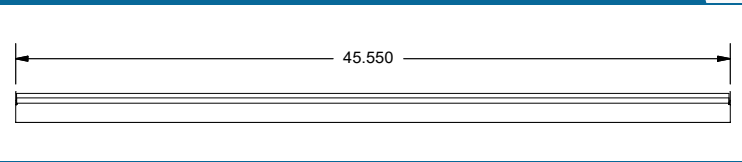
Warranty Statement

BJ Take products are tested and/or inspected prior to being packaged for shipment and are guaranteed from the day the product is shipped for a period of ten-year LED chip warranty and a five-year comprehensive component warranty. This can be upgraded to a ten-year comprehensive warranty on request.

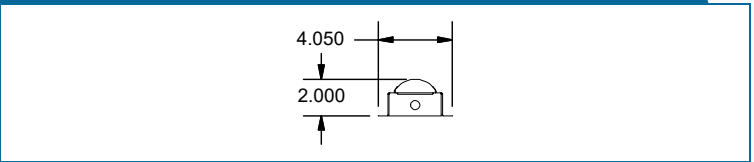
The Rankin Series

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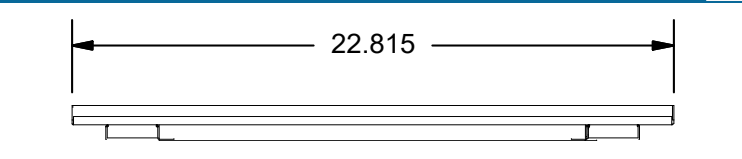
BRLR 1x4' Side



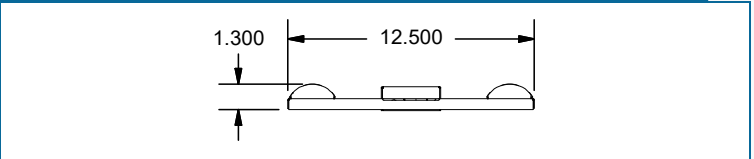
BRLR 1x4' End



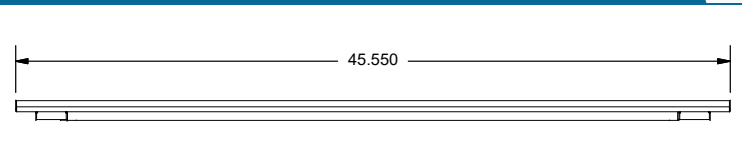
BRLR 2x2' Side



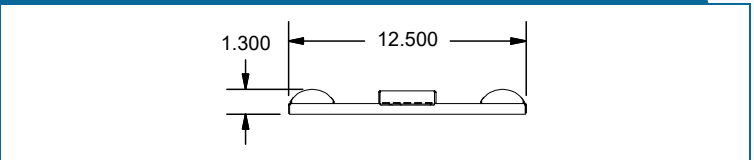
BRLR 2x2' End



BRLR 2x4' Side



BRLR 2x4' End



BRLR 1x4' Wattage

Length	Lumen Output	Actual Lumen Output	Fixture Wattage	Lumens per Watt
1x4	2L	1916	15.0	127.73
1x4	3L	2807	22.4	125.31
1x4	4L	3660	29.8	122.82
1x4	5L	4476	37.2	120.32

BRLR 2x2' Wattage

Length	Lumen Output	Actual Lumen Output	Fixture Wattage	Lumens per Watt
2x2	2L	1971	15.4	127.98
2x2	3L	2864	22.7	126.17
2x2	4L	3734	29.9	124.89
2x2	5L	4577	37.2	123.04

BRLR 2x4' Wattage

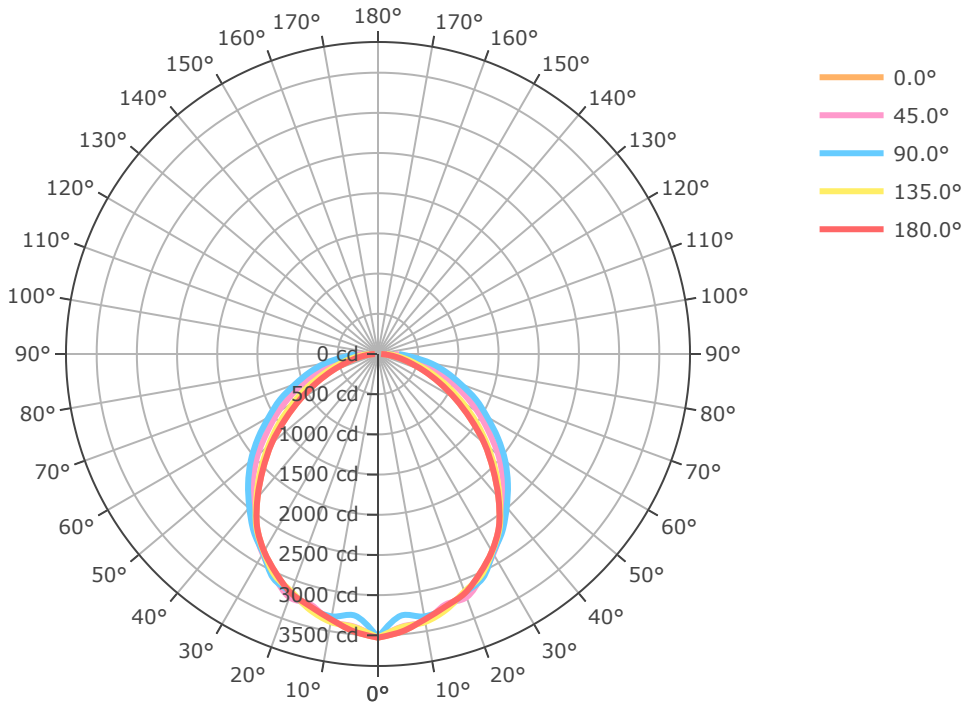
Length	Lumen Output	Actual Lumen Output	Fixture Wattage	Lumens per Watt
2x4	3L	3010	21.3	141.31
2x4	4L	4029	28.8	139.90
2x4	5L	5026	36.3	138.46
2x4	6L	6001	43.8	137.00
2x4	7L	6955	51.3	135.58
2x4	8L	7886	58.9	133.89
2x4	9L	8795	66.4	132.45
2x4	10L	9679	73.9	130.97

- * Drawings not to scale
- * Standard tolerances apply
- * Specifications may change without notice

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BRLR-24-10L-840



Mtg Height	Light Level	Beam Diameter
6.0 ft	98.0 fc	14.0 ft
8.0 ft	55.1 fc	18.6 ft
10.0 ft	35.3 fc	23.3 ft
12.0 ft	24.5 fc	28.0 ft
14.0 ft	18.0 fc	32.6 ft
16.0 ft	13.8 fc	37.3 ft
24.0 ft	6.1 fc	55.9 ft
32.0 ft	3.4 fc	74.6 ft
40.0 ft	2.2 fc	93.2 ft
48.0 ft	1.5 fc	111.8 ft
56.0 ft	1.1 fc	130.5 ft
64.0 ft	0.9 fc	149.1 ft

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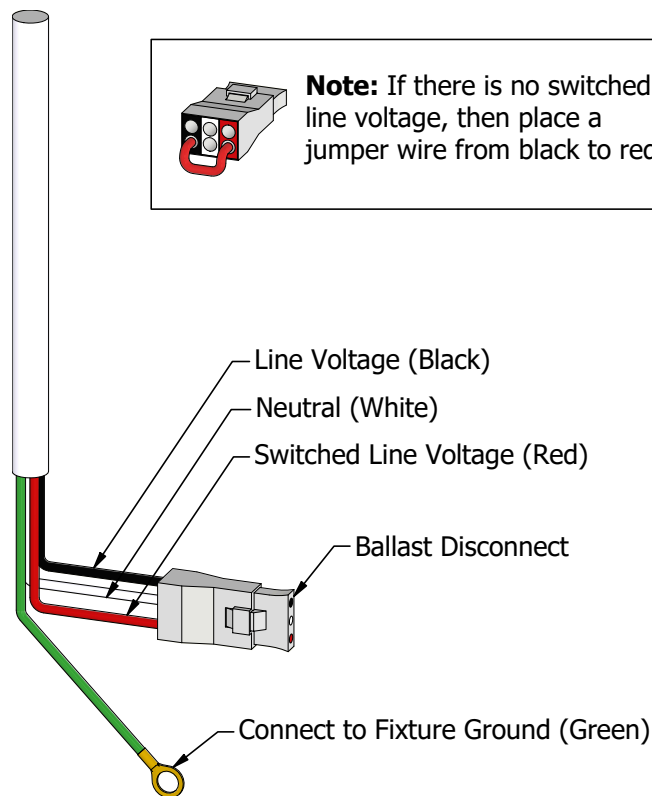
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Retrofit Lighting by **BJTAKE**
LIGHTING

Emergency Battery Plan - 10W

Emergency Lighting	Solution System Components	System Operation
Option Code 'B17' - UL 924 listed components that are factory installed in the luminaire	UL 924 listed 10-watt battery integral to the luminaire	Loss of normal power is detected by the B17 emergency light solution and the power supply is switched automatically to the 10-watt integral battery pack which powers the emergency LED lighting driver.
	UL 924 listed LED emergency lighting driver integral to the luminaire	The battery pack and emergency LED driver are UL 924 certified to provide a minimum of 90-minutes of emergency lighting.
	Wiring options for both switched and unswitched emergency lighting	

Emergency Lighting Wiring



Important Information

More information on emergency lighting options and configurations available on request.

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Retrofit Lighting by **B**BJTAKE
LIGHTING

Gallery Information

Below you will find images of relevant products and configurations for the BRLR.

