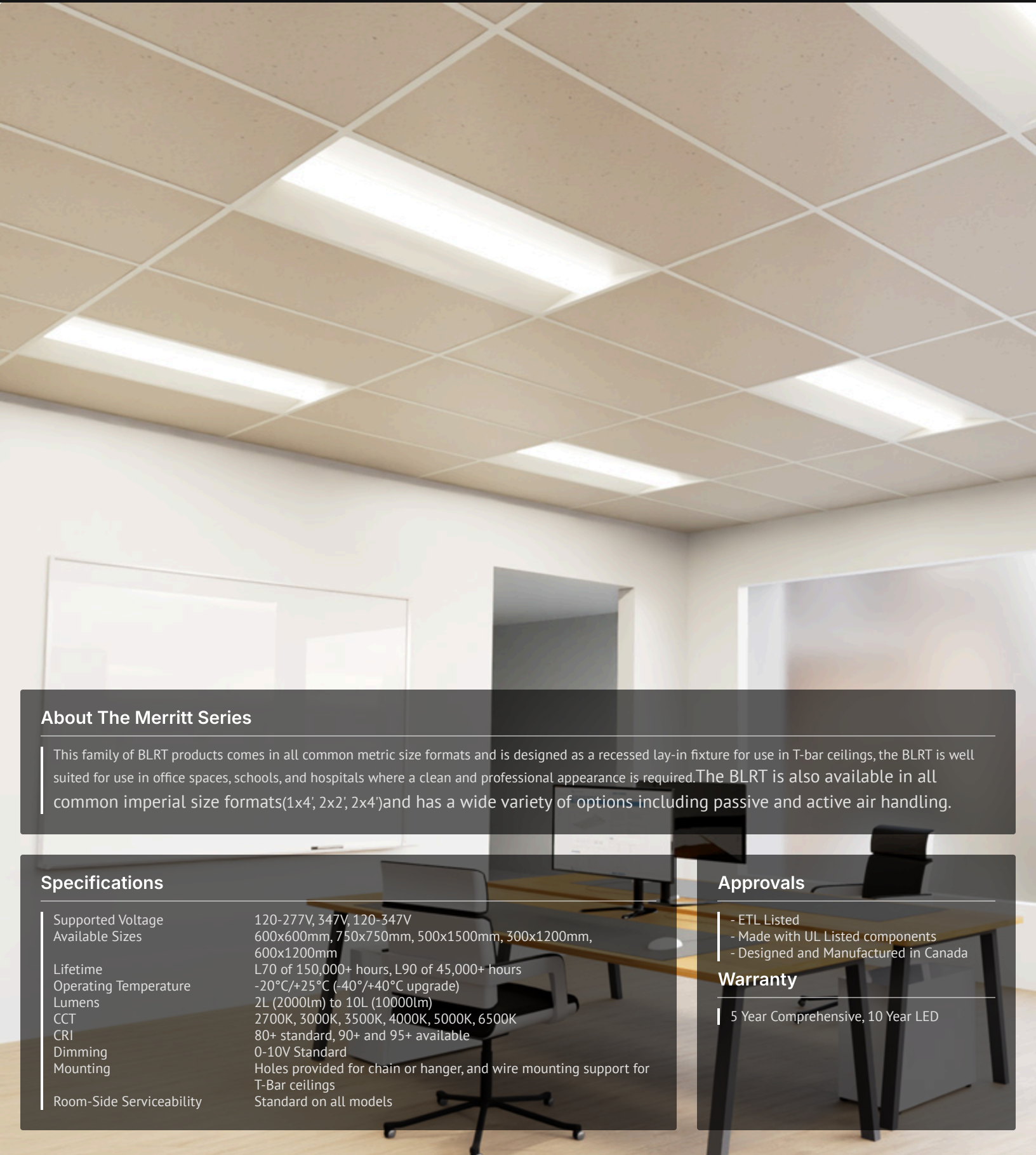


# The Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

Project	Date
Part	Type



## About The Merritt Series

This family of BLRT products comes in all common metric size formats and is designed as a recessed lay-in fixture for use in T-bar ceilings, the BLRT is well suited for use in office spaces, schools, and hospitals where a clean and professional appearance is required. The BLRT is also available in all common imperial size formats (1x4', 2x2', 2x4') and has a wide variety of options including passive and active air handling.

## Specifications

Supported Voltage	120-277V, 347V, 120-347V
Available Sizes	600x600mm, 750x750mm, 500x1500mm, 300x1200mm, 600x1200mm
Lifetime	L70 of 150,000+ hours, L90 of 45,000+ hours
Operating Temperature	-20°C/+25°C (-40°/+40°C upgrade)
Lumens	2L (2000lm) to 10L (10000lm)
CCT	2700K, 3000K, 3500K, 4000K, 5000K, 6500K
CRI	80+ standard, 90+ and 95+ available
Dimming	0-10V Standard
Mounting	Holes provided for chain or hanger, and wire mounting support for T-Bar ceilings
Room-Side Serviceability	Standard on all models

## Approvals

- ETL Listed
- Made with UL Listed components
- Designed and Manufactured in Canada

## Warranty

- 5 Year Comprehensive, 10 Year LED

# The Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

Architectural Lighting by

**BJTAKE**  
LIGHTING

## Ordering Information

Fill in the fields below with your product selections. If you need help with this section, [contact your local sales professional](#).

Length  
**BLRT-M** - **300x1200** - **5L** - **840** - **UNV**  
Fixture Series Lumen Output Voltage

1	2	3	4	5	
BLRT-M					
Series	Lumen Output		CRI	CCT	Voltage
BLRT-M	[300x1200]-2L	2000lm	[600x600]-4.5L	4500lm	8 80 27 2700K UNV 120-
	[300x1200]-2.5L	2500lm	[600x600]-5L	5000lm	9 90+ 30 3000K 277V
	[300x1200]-3L	3000lm	[500x1500]-3L	3000lm	1 95+ 35 3500K 347 347V
	[300x1200]-3.5L	3500lm	[500x1500]-4L	4000lm	40 4000K UN3 120-
	[300x1200]-4L	4000lm	[500x1500]-5L	5000lm	50 5000K 347V
	[300x1200]-4.5L	4500lm	[500x1500]-6L	6000lm	65 6500K
	[300x1200]-5L	5000lm	[500x1500]-7L	7000lm	
	[750x750]-2L	2000lm	[500x1500]-8L	8000lm	
	[750x750]-2.5L	2500lm	[500x1500]-9L	9000lm	
	[750x750]-3L	3000lm	[500x1500]-10L	10000lm	
	[750x750]-3.5L	3500lm	[600x1200]-3L	3000lm	
	[750x750]-4L	4000lm	[600x1200]-4L	4000lm	
	[750x750]-4.5L	4500lm	[600x1200]-5L	5000lm	
	[750x750]-5L	5000lm	[600x1200]-6L	6000lm	
	[600x600]-2L	2000lm	[600x1200]-7L	7000lm	
	[600x600]-2.5L	2500lm	[600x1200]-8L	8000lm	
	[600x600]-3L	3000lm	[600x1200]-9L	9000lm	
	[600x600]-3.5L	3500lm	[600x1200]-10L	10000lm	
	[600x600]-4L	4000lm			

6

## Options

### Lenses

BLANK | Frosted Acrylic

### Dimming

B11 | 0-10V Dimming Leads

B12 | Line voltage dimming

B22 | 0-10V 1% Dimming

B27 | Dim-to-off Driver

B\*\* | Other Options Available\*

### Controls

WC10\* | Encelium Wireless Controls

WC18\* | NX Wireless Controls

WC19\* | Avi-on Wireless Controls

WC22\* | JDRF Wireless Controls

### Motion Sensors

WX15 | Internal Dimming Low Voltage Microwave Sensor

WC20 | Leviton Low-Voltage Sensor

W\*\* | Other Options Available\*

### Emergency Driver

B17 | UL924 10W Battery Back-up

F8 | UL924 Emergency Relay

### Air Handling

H20 | Housing with Passive Air Handling

H24 | Housing with Active Air Handling

### Finish

BLANK | Standard Matte White

C5 | Matte Black

CUSTOM\* | Custom Colour Choice

### Packaging

BLANK | Individually Boxed on Pallets

P0 | Bulk Packaging

### T-Bar Kits

BLANK | 15/16" T-Bar

TB39 | 9/16" T-Bar

TB39S | 9/16" T-Bar (Slotted)

H40 | Drywall Kit (packaged separately)

### Warranty





CL7 | 10-Year Comprehensive Warranty Upgrade

Certifications and Listings

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

Usage Applications

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

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

Usage Application
Hospitals
Offices
Schools

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 Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

Architectural Lighting by



## Wattage information

Below are the wattage tables for all metric size formats of the BLRT-M.

### BLRT-M 500x1500 Wattage

Size	Lumen Output	Actual Lumen Output	wattage
2x4	3.0	3254	21.7
2x4	3.5	3780	25.3
2x4	4.0	4300	29.0
2x4	4.5	4812	32.7
2x4	5.0	5316	36.3
2x4	6.0	6304	43.7
2x4	7.0	7263	51.0
2x4	8.0	8192	58.4
2x4	9.0	9093	65.7
2x4	10.0	9966	73.0

### BLRT-M 600x1200 wattage

Size	Lumen Output	Actual Lumen Output	wattage
2x4	3.0	3254	21.7
2x4	3.5	3780	25.3
2x4	4.0	4300	29.0
2x4	4.5	4812	32.7
2x4	5.0	5316	36.3
2x4	6.0	6304	43.7
2x4	7.0	7263	51.0
2x4	8.0	8192	58.4
2x4	9.0	9093	65.7
2x4	10.0	9966	73.0

### BLRT-M 300x1200 wattage

Size	Lumen Output	Actual Lumen Output	wattage
1x4	2.0	2009	14.8
1x4	2.5	2508	18.4
1x4	3.0	3005	22.1
1x4	3.5	3500	25.8
1x4	4.0	3994	29.5
1x4	4.5	4486	33.2
1x4	5.0	4977	36.8

### BLRT-M 600x600 Wattage

Size	Lumen Output	Actual Lumen Output	wattage
2x2	2.0	1989	14.8
2x2	2.5	2483	18.4
2x2	3.0	2975	22.1
2x2	3.5	3465	25.8
2x2	4.0	3954	29.5
2x2	4.5	4441	33.2
2x2	5.0	4927	36.8

### BLRT-M 750x750 Wattage

Size	Lumen Output	Actual Lumen Output	wattage
2x2	2.0	1989	14.8
2x2	2.5	2483	18.4
2x2	3.0	2975	22.1
2x2	3.5	3465	25.8
2x2	4.0	3954	29.5
2x2	4.5	4441	33.2
2x2	5.0	4927	36.8

### BLRT-M Light Loss Factor (LLF)

CCT	Output%
2700K	92.95
3000K	95.51
3500K	96.80
4000K	100.00
5000K	101.28
90CRI	84.72

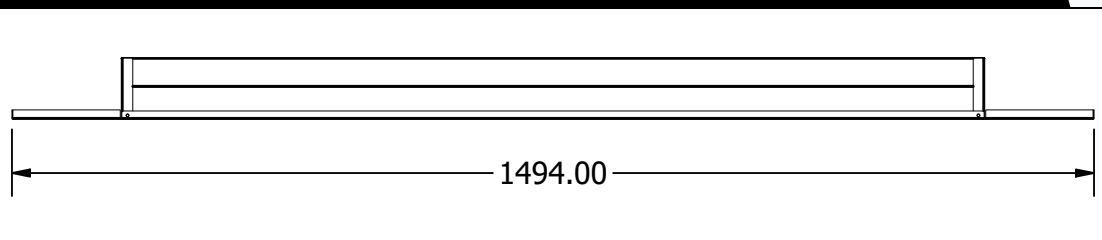
\* Actual lumen output may vary

# The Merritt Series

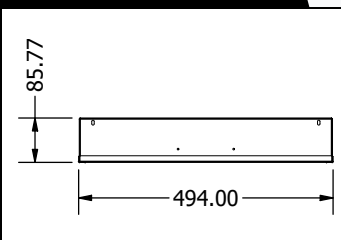
BLRT-M - Architectural Recessed Metric Troffer

Architectural Lighting by **BJTAKE**  
LIGHTING

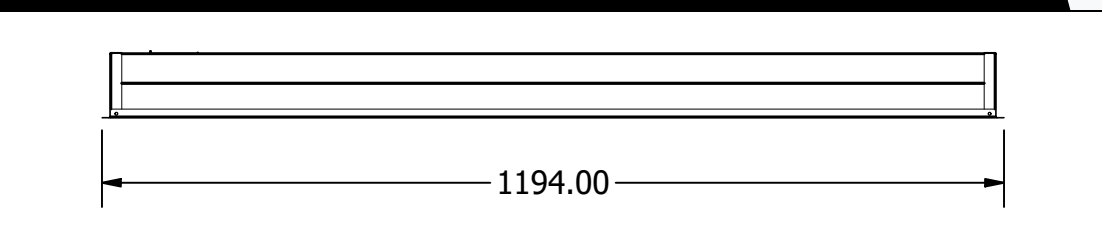
BLRT-M 500x1500mm



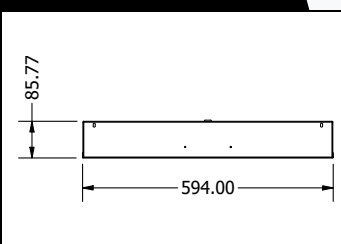
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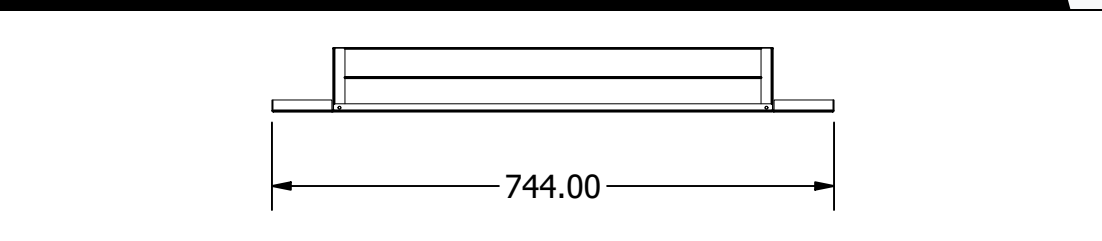
BLRT-M 600x1200mm



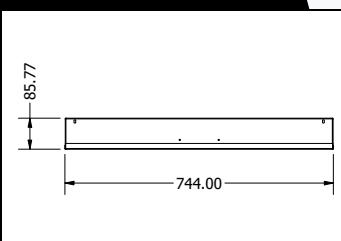
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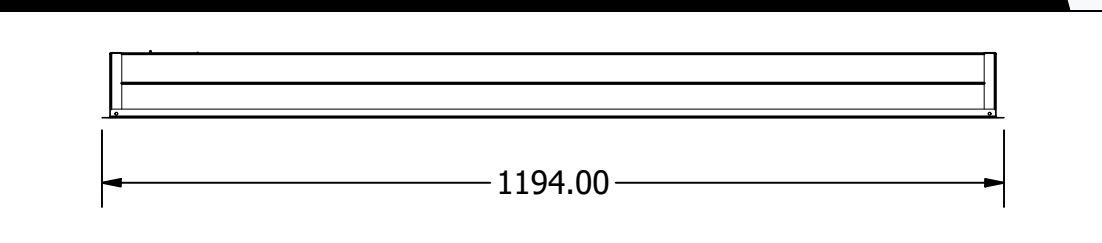
BLRT-M 750x750mm



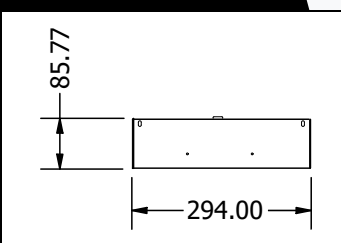
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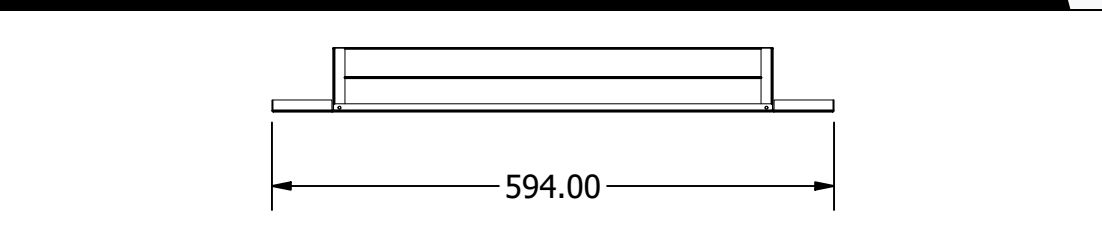
BLRT-M 300x1200mm



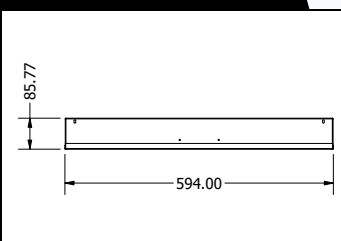
End Dimensions



BLRT-M 600x600mm



End Dimensions



\* Drawings aren't to scale

\* Standard tolerances apply

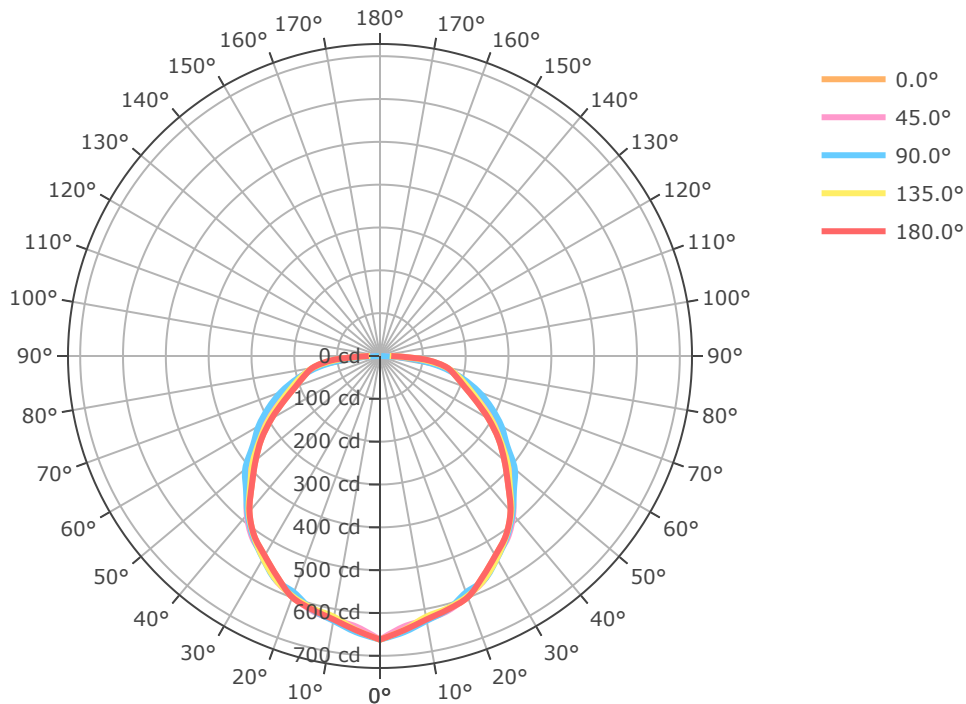
\* Specifications may change without notice

# The Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

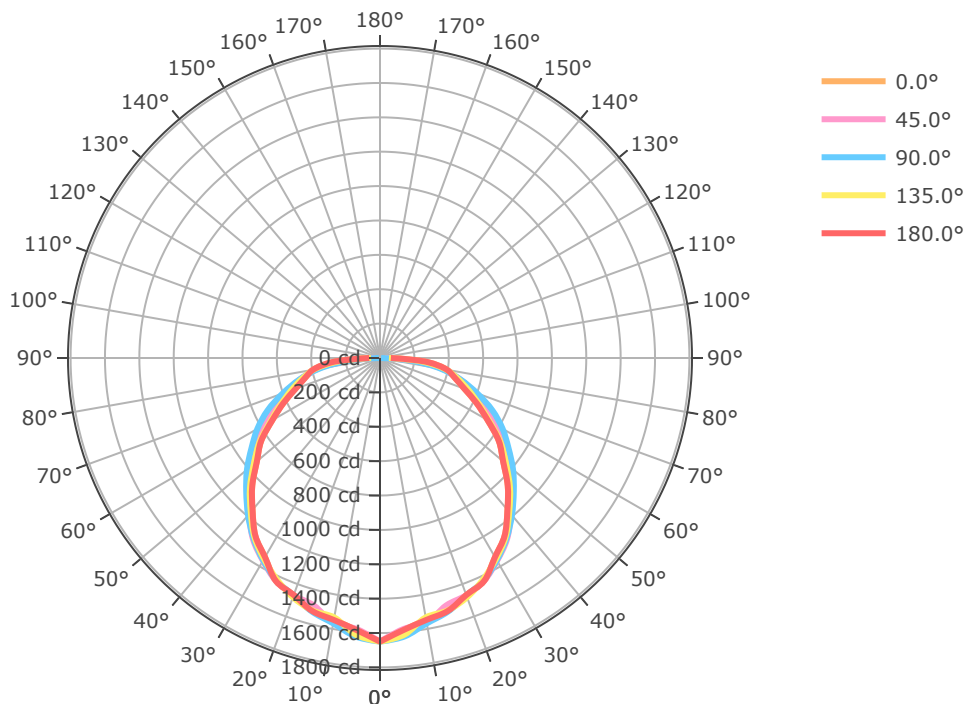
Architectural Lighting by **BJTAKE**  
LIGHTING

## BLRT-M-300X1200-2L-840



Mtg Height	Light Level	Beam Diameter
6.0 ft	18.4 fc	17.6 ft
8.0 ft	10.3 fc	23.5 ft
10.0 ft	6.6 fc	29.4 ft
12.0 ft	4.6 fc	35.2 ft
14.0 ft	3.4 fc	41.1 ft
16.0 ft	2.6 fc	47.0 ft
24.0 ft	1.1 fc	70.5 ft
32.0 ft	0.6 fc	94.0 ft
40.0 ft	0.4 fc	117.5 ft
48.0 ft	0.3 fc	141.0 ft
56.0 ft	0.2 fc	164.5 ft
64.0 ft	0.2 fc	188.0 ft

## BLRT-M-300X1200-5L-840



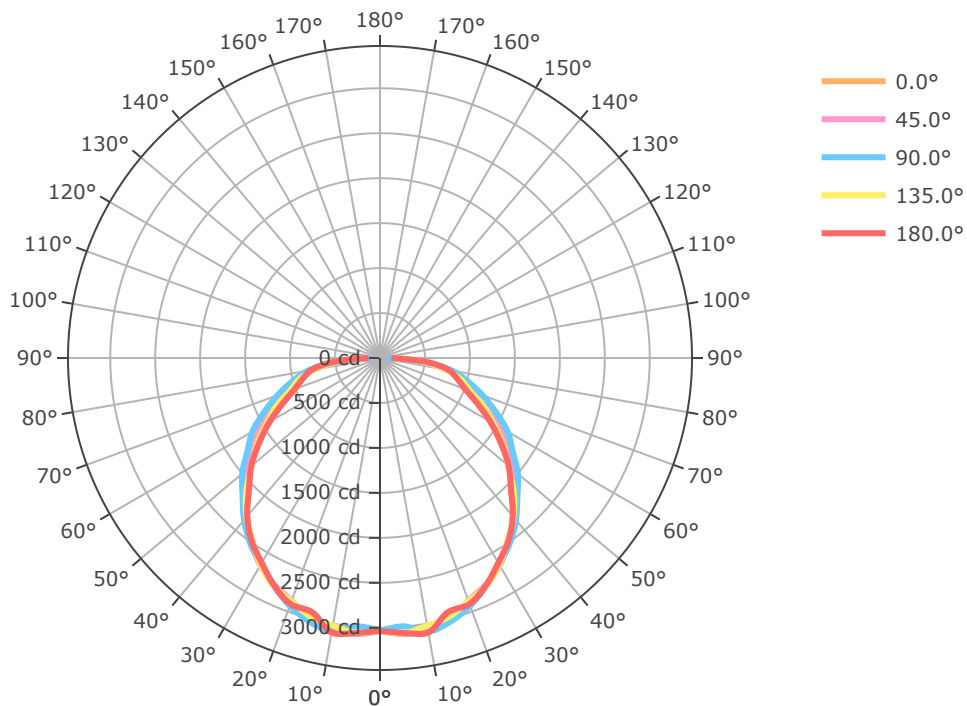
Mtg Height	Light Level	Beam Diameter
6.0 ft	45.8 fc	17.7 ft
8.0 ft	25.8 fc	23.6 ft
10.0 ft	16.5 fc	29.4 ft
12.0 ft	11.5 fc	35.3 ft
14.0 ft	8.4 fc	41.2 ft
16.0 ft	6.4 fc	47.1 ft
24.0 ft	2.9 fc	70.7 ft
32.0 ft	1.6 fc	94.2 ft
40.0 ft	1.0 fc	117.8 ft
48.0 ft	0.7 fc	141.3 ft
56.0 ft	0.5 fc	164.9 ft
64.0 ft	0.4 fc	188.4 ft

# The Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

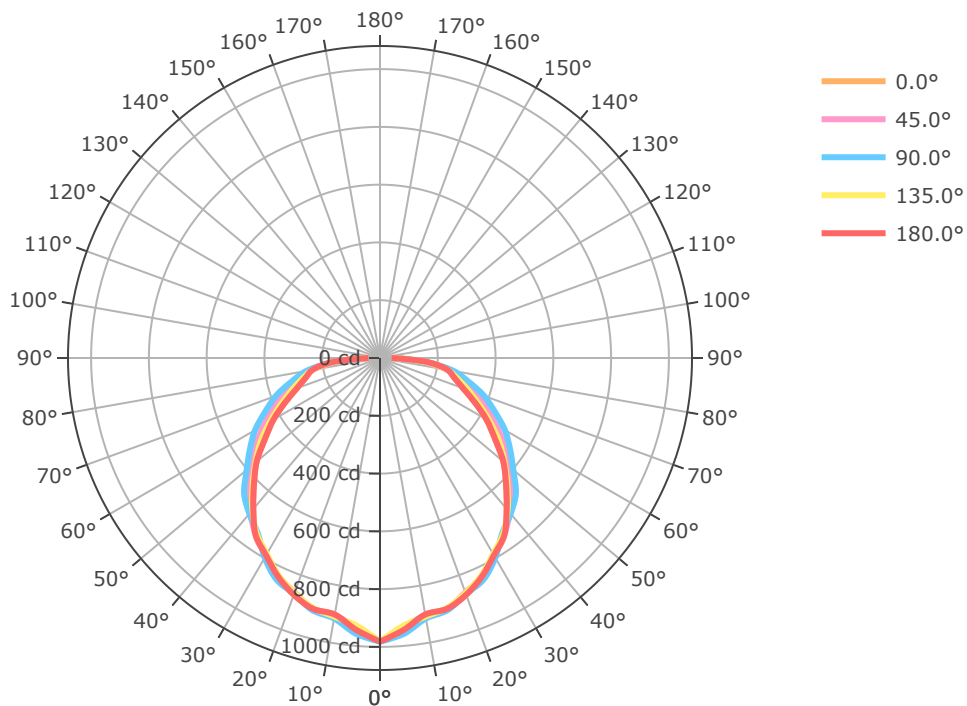
Architectural Lighting by **BJTAKE**  
LIGHTING

## BLRT-M-600X1200-500X1500-10L-840



Mtg Height	Light Level	Beam Diameter
6.0 ft	84.3 fc	19.0 ft
8.0 ft	47.4 fc	25.4 ft
10.0 ft	30.3 fc	31.7 ft
12.0 ft	21.1 fc	38.0 ft
14.0 ft	15.5 fc	44.4 ft
16.0 ft	11.9 fc	50.7 ft
24.0 ft	5.3 fc	76.1 ft
32.0 ft	3.0 fc	101.4 ft
40.0 ft	1.9 fc	126.8 ft
48.0 ft	1.3 fc	152.1 ft
56.0 ft	1.0 fc	177.5 ft
64.0 ft	0.7 fc	202.8 ft

## BLRT-M-600X1200-500X1500-3L-840



Mtg Height	Light Level	Beam Diameter
6.0 ft	27.3 fc	16.9 ft
8.0 ft	15.3 fc	22.5 ft
10.0 ft	9.8 fc	28.2 ft
12.0 ft	6.8 fc	33.8 ft
14.0 ft	5.0 fc	39.4 ft
16.0 ft	3.8 fc	45.0 ft
24.0 ft	1.7 fc	67.6 ft
32.0 ft	1.0 fc	90.1 ft
40.0 ft	0.6 fc	112.6 ft
48.0 ft	0.4 fc	135.1 ft
56.0 ft	0.3 fc	157.6 ft
64.0 ft	0.2 fc	180.2 ft



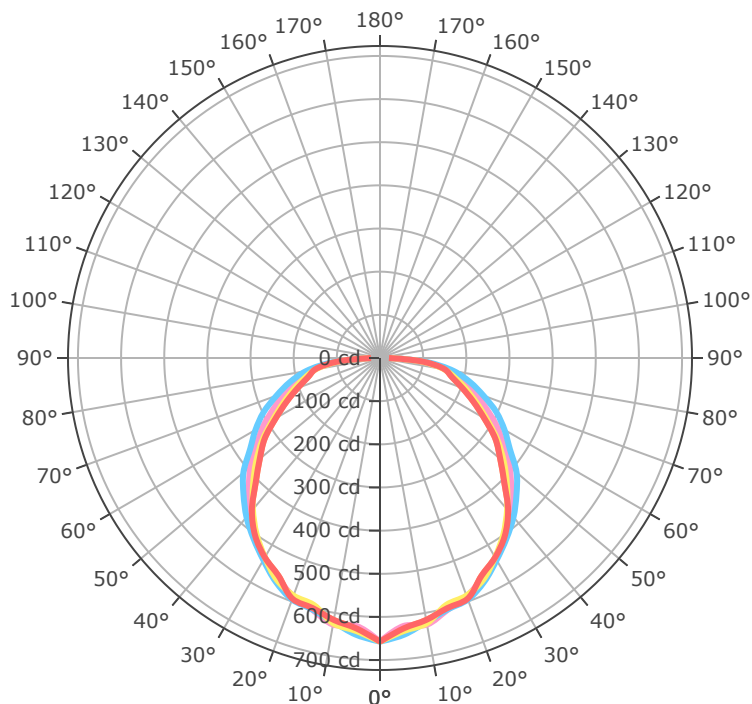
# The Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

Architectural Lighting by

**BJTAKE**  
LIGHTING

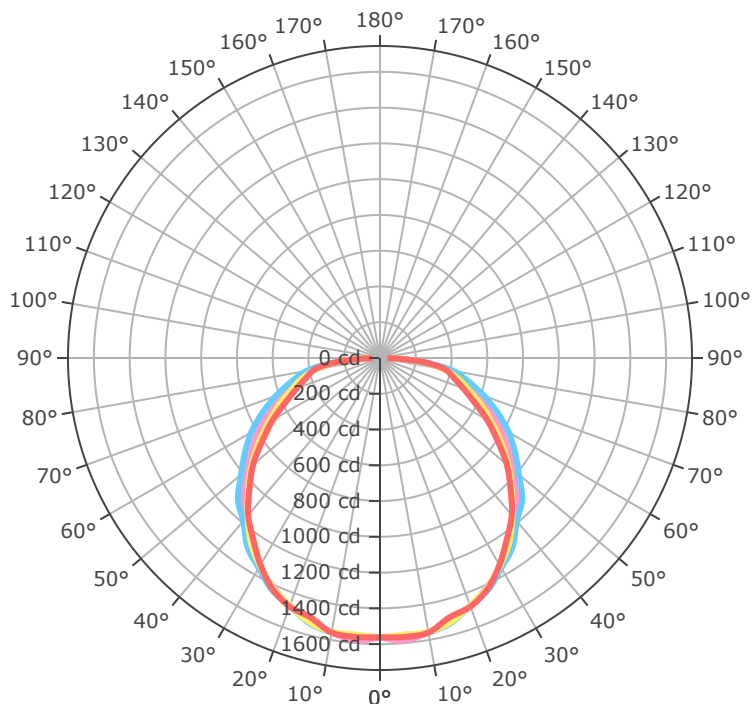
## BLRT-M-750X750-600X600-2L-840



0.0°  
45.0°  
90.0°  
135.0°  
180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	18.3 fc	17.0 ft
8.0 ft	10.3 fc	22.6 ft
10.0 ft	6.6 fc	28.3 ft
12.0 ft	4.6 fc	33.9 ft
14.0 ft	3.4 fc	39.6 ft
16.0 ft	2.6 fc	45.2 ft
24.0 ft	1.1 fc	67.8 ft
32.0 ft	0.6 fc	90.4 ft
40.0 ft	0.4 fc	113.1 ft
48.0 ft	0.3 fc	135.7 ft
56.0 ft	0.2 fc	158.3 ft
64.0 ft	0.2 fc	180.9 ft

## BLRT-M-750X750-600X600-5L-840

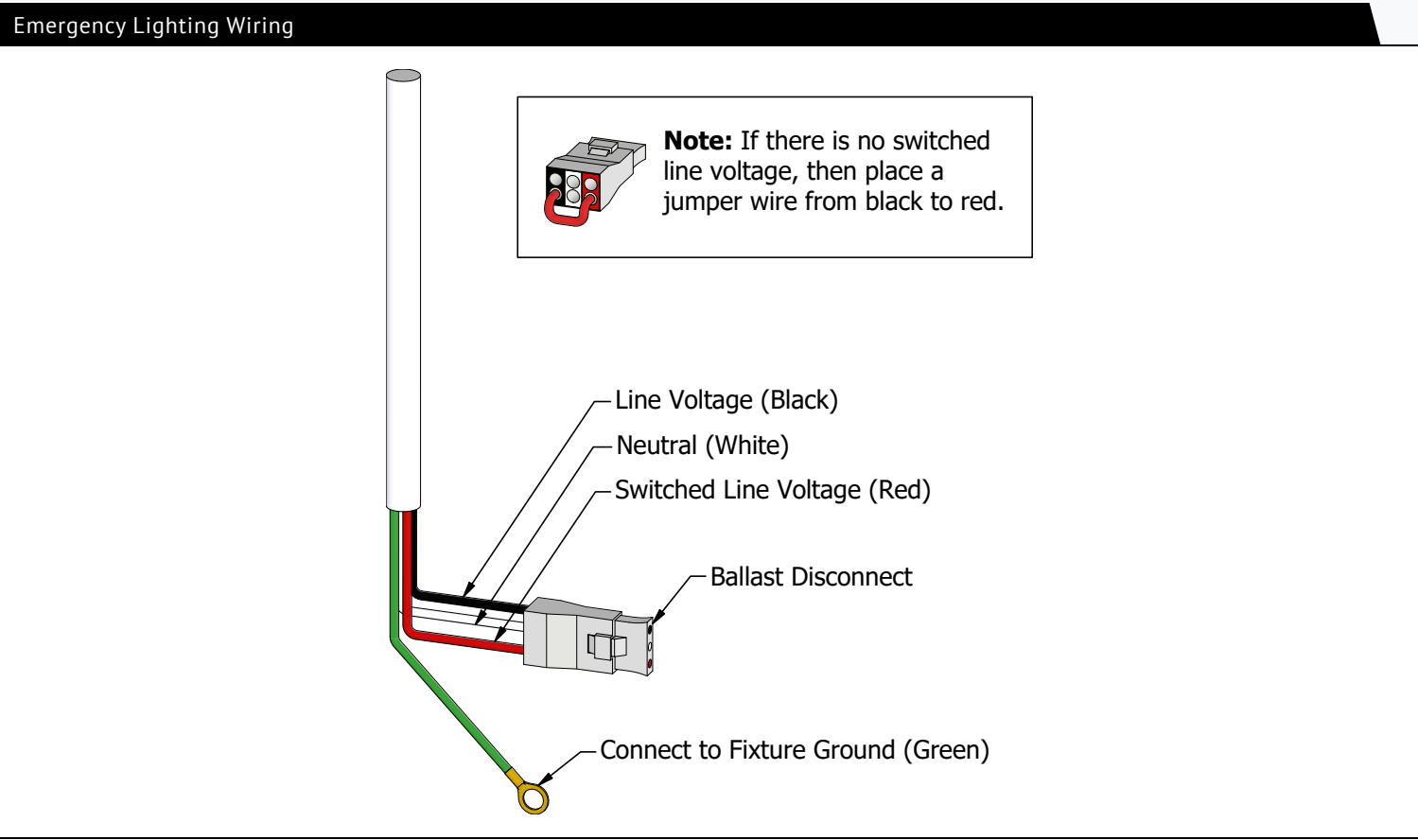


0.0°  
45.0°  
90.0°  
135.0°  
180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	43.4 fc	17.8 ft
8.0 ft	24.4 fc	23.7 ft
10.0 ft	15.6 fc	29.6 ft
12.0 ft	10.8 fc	35.5 ft
14.0 ft	8.0 fc	41.4 ft
16.0 ft	6.1 fc	47.3 ft
24.0 ft	2.7 fc	71.0 ft
32.0 ft	1.5 fc	94.7 ft
40.0 ft	1.0 fc	118.4 ft
48.0 ft	0.7 fc	142.0 ft
56.0 ft	0.5 fc	165.7 ft
64.0 ft	0.4 fc	189.4 ft



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	



Important Information

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

# The Merritt Series

BLRT-M - Architectural Recessed Metric Troffer

Architectural Lighting by **BJTAKE**  
LIGHTING

## Gallery Information

Below you will find images of relevant products and configurations for the BLRT-M.

