

The Dryden Series

BLRD - Architectural Recessed

Project

Date

Part

Type

About The Dryden Series

The BLRD is a series of recessed architectural luminaires perfect for office spaces, schools, and hospitals, and is available with an RGBW/RGBWW full-spectrum color and tunable-white engine for dynamic architectural and medical lighting. It is also available in common metric size formats and offers a wide variety of options including passive air handling.

Specifications

Supported Voltage	120-277V, 347V, 120-347V
Available Sizes	1x4, 2x2, 2x4 (all metric and custom sizes available on request)
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	Recessed lay-in fixture for T-Bar Ceilings. Holes provided for chain or hanger, and wire mounting support for T-Bar ceilings
Room-Side Serviceability	Standard on all models
RGBW / RGBWW	Full-spectrum color and tunable white

Approvals

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

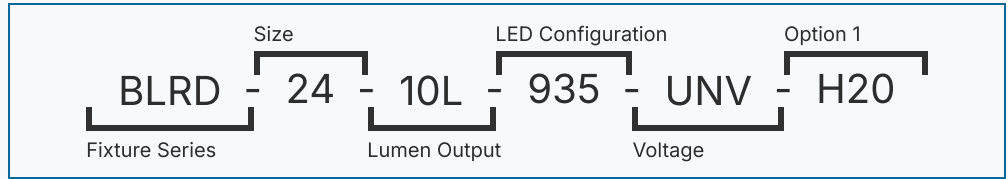
The Dryden Series

BLRD - Architectural Recessed

Architectural Lighting by



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
BLRD				

Series	Size	Lumen Output	LED Configuration	Voltage
BLRD	BLRD	14 1x4	827 or 927	UNV 120-277V
		22 2x2	830 or 930	347 347V
		24 2x4	835 or 935	UN3 120-347V
		33 30x30	840 or 940	
			850 or 950	
		2x2, 30x30	865 or 965	
			80 90 CRI 2700K	
			80 90 CRI 3000K	
			80 90 CRI 3500K	
			80 90 CRI 4000K	
			80 90 CRI 5000K	
			80 90 CRI 6500K	
		2x4	RGB-27	RGBW 2700K
			RGB-30	RGBW 3000K
			RGB-35	RGBW 3500K
			RGB-40	RGBW 4000K
			RGB-50	RGBW 5000K
			RGB-65	RGBW 6500K
			RGB2040	RGBWW 2000K-4000K
			RGB3050	RGBWW 3000K-5000K
			027 or 030	THRIVE 2700K 3000K
			035 or 040	THRIVE 3500K 4000K
			050 or 065	THRIVE 5000K 6500K
				95+ CRI available on request*
				CRI selection unavailable with RGB*

6				
---	--	--	--	--

Options

Lenses

BLANK | Frosted Acrylic

Dimming

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

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*

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

Wattage	Activated Output
10W	839 lm
16W	1342 lm

*activated output cannot exceed selected lumen package output

Air Handling

- H20 | Housing with Passive Air Handling

Finish

- BLANK | Standard Low Reflectance White
- C5 | Matte Black
- CUSTOM | Custom Colour Choice

Packaging

- BLANK | Individually Boxed on Pallets
- P0 | Bulk Packaging
- P** | Other Options Available

Mounting

- M15 | Surface Mount Kit (packaged separately)
- 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

The Dryden Series


BLRD - Architectural Recessed

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.

 [BLRD - Installation Instructions](#)

 [BLRD - Photometry](#)

Certifications and Listings

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

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

Usage Applications

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

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 Dryden Series

BLRD - Architectural Recessed

Architectural Lighting by



Wattage Information

Below are the wattage tables for all size formats of the BLRD.

BLRD 1x4' Wattage

Size	Lumen Output	Fixture Wattage
14	2.0	16.3
14	2.5	21.0
14	3.0	25.5
14	3.5	30.7
14	4.0	35.3
14	4.5	40.7

BLRD 2x2' Wattage

Size	Lumen Package	Wattage
22	2.0	16.3
22	2.5	21.0
22	3.0	25.5
22	3.5	30.7
22	4.0	35.3
22	4.5	40.7
22	5.0	43.2

BLRD 2x4' Wattage

Size	Lumen Package	Wattage
24	2.0	16.30
24	2.5	21.00
24	3.0	25.50
24	3.5	30.70
24	4.0	35.30
24	4.5	40.70
24	5.0	42.10
24	5.5	46.50
24	6.0	51.00
24	6.5	55.50
24	7.0	61.40
24	7.5	65.30
24	8.0	70.60
24	8.5	75.30
24	9.0	81.30
24	9.5	85.40
24	10.0	86.46

BLRD 2x4' Light Loss Factor (LLF)

CCT	Output%
2700K	92.95%
3000K	95.51%
3500K	96.80%
4000K	100%
5000K	101.28%
90CRI	84.72%

* Actual lumen output may vary

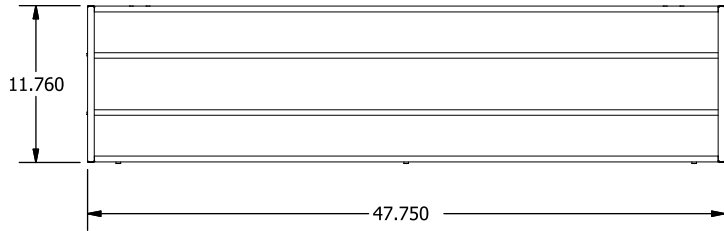
The Dryden Series

BLRD - Architectural Recessed

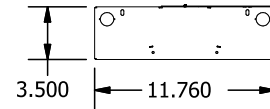
Dimension Information

Below you will find the dimensions for the BLRD.

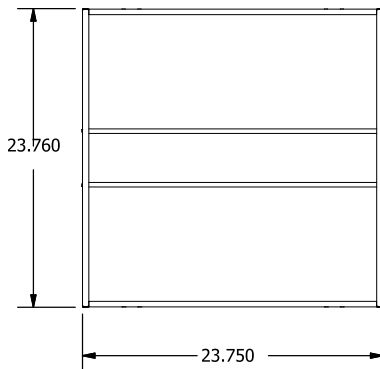
BLRD 1x4'



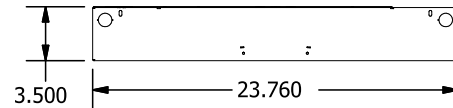
End Dimensions



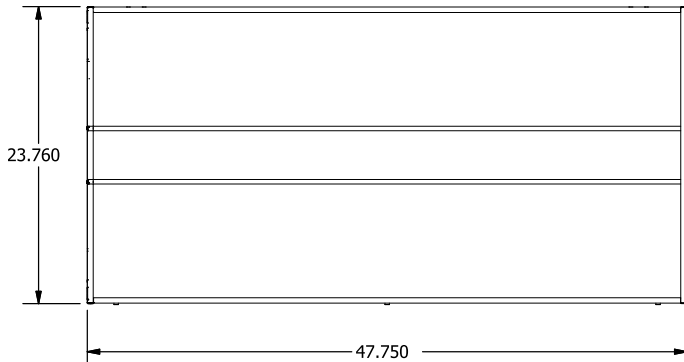
BLRD 2x2'



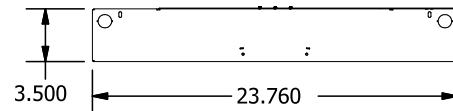
End Dimensions



BLRD 2x4'



End Dimensions



* Drawings not to scale

* Standard tolerances apply

* Specifications may change without notice

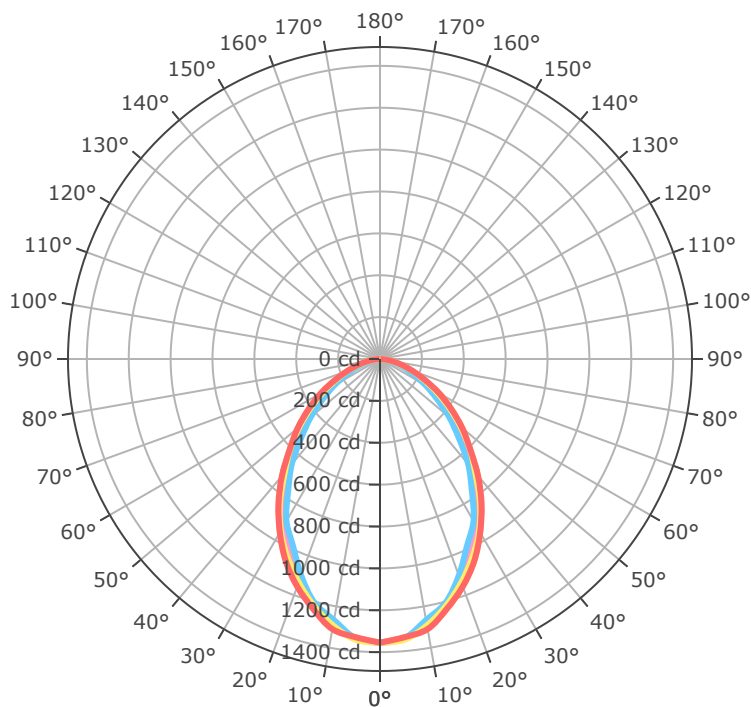
The Dryden Series

BLRD - Architectural Recessed

Architectural Lighting by



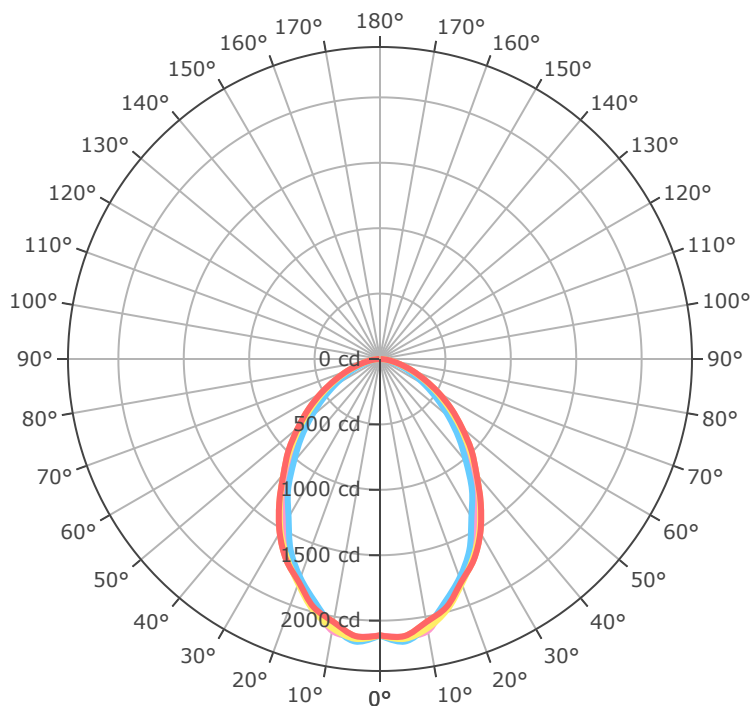
BLRD-1X4-2.5L-840-L18



- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	37.6 fc	10.9 ft
8.0 ft	21.2 fc	14.5 ft
10.0 ft	13.5 fc	18.1 ft
12.0 ft	9.4 fc	21.7 ft
14.0 ft	6.9 fc	25.3 ft
16.0 ft	5.3 fc	28.9 ft
24.0 ft	2.4 fc	43.4 ft
32.0 ft	1.3 fc	57.9 ft
40.0 ft	0.8 fc	72.4 ft
48.0 ft	0.6 fc	86.8 ft
56.0 ft	0.4 fc	101.3 ft
64.0 ft	0.3 fc	115.8 ft

BLRD-1X4-4L-840-L18



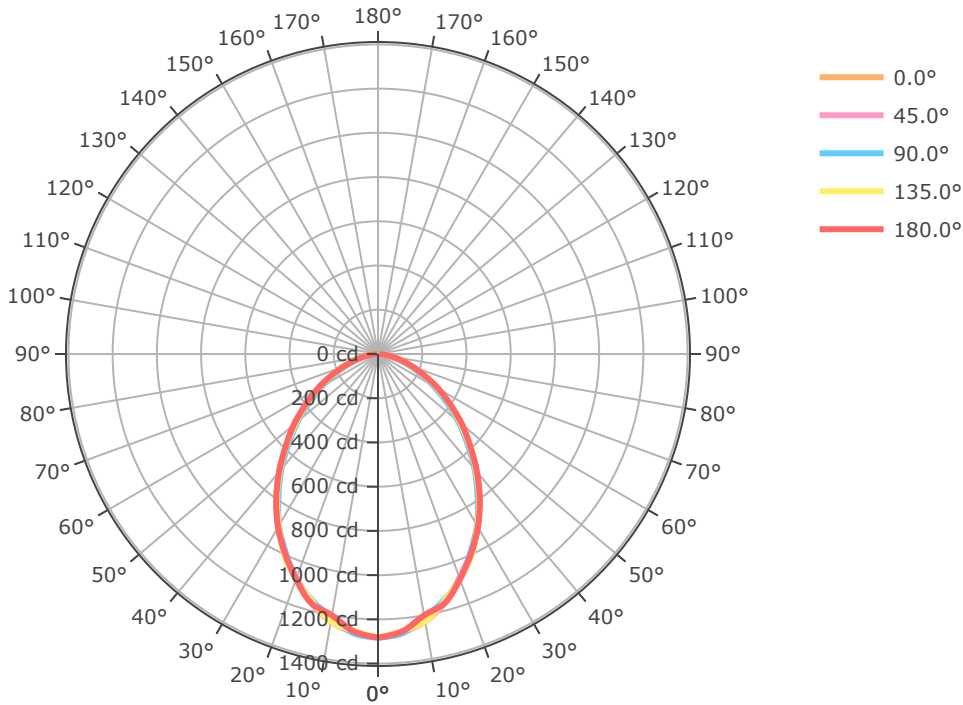
- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	58.7 fc	11.1 ft
8.0 ft	33.0 fc	14.8 ft
10.0 ft	21.1 fc	18.6 ft
12.0 ft	14.7 fc	22.3 ft
14.0 ft	10.8 fc	26.0 ft
16.0 ft	8.3 fc	29.7 ft
24.0 ft	3.7 fc	44.5 ft
32.0 ft	2.1 fc	59.4 ft
40.0 ft	1.3 fc	74.2 ft
48.0 ft	0.9 fc	89.1 ft
56.0 ft	0.7 fc	103.9 ft
64.0 ft	0.5 fc	118.8 ft

The Dryden Series

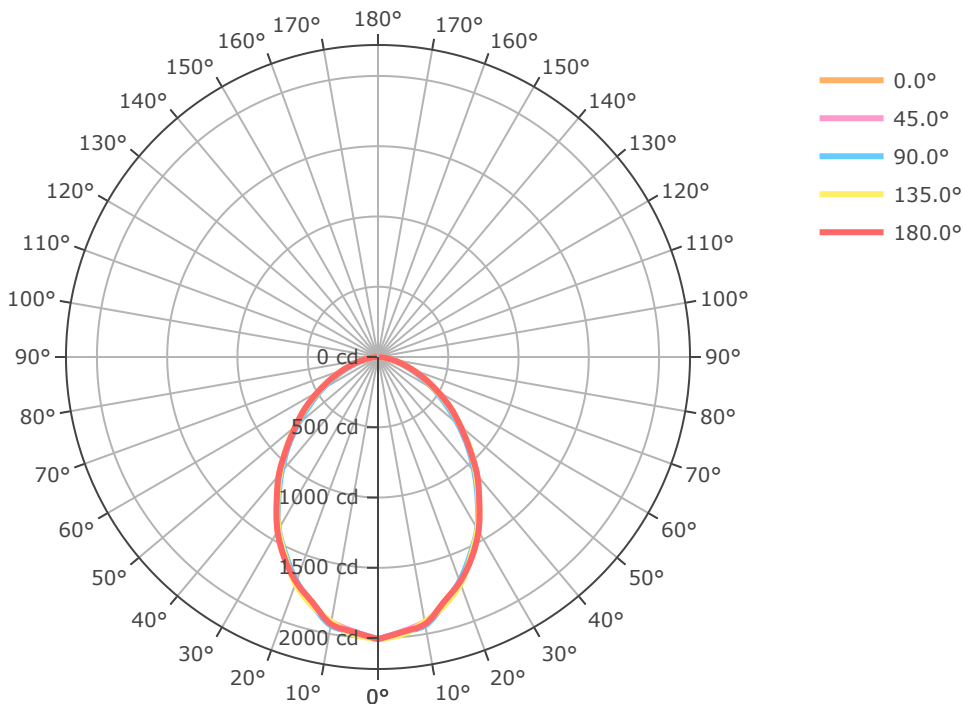
BLRD - Architectural Recessed

BLRD-2X2-2.5L-840-L18



Mtg Height	Light Level	Beam Diameter
6.0 ft	35.6 fc	11.0 ft
8.0 ft	20.0 fc	14.7 ft
10.0 ft	12.8 fc	18.4 ft
12.0 ft	8.9 fc	22.0 ft
14.0 ft	6.5 fc	25.7 ft
16.0 ft	5.0 fc	29.4 ft
24.0 ft	2.2 fc	44.1 ft
32.0 ft	1.3 fc	58.8 ft
40.0 ft	0.8 fc	73.5 ft
48.0 ft	0.6 fc	88.2 ft
56.0 ft	0.4 fc	102.9 ft
64.0 ft	0.3 fc	117.6 ft

BLRD-2X2-4L-840-L18



Mtg Height	Light Level	Beam Diameter
6.0 ft	55.8 fc	11.1 ft
8.0 ft	31.4 fc	14.7 ft
10.0 ft	20.1 fc	18.4 ft
12.0 ft	13.9 fc	22.1 ft
14.0 ft	10.2 fc	25.8 ft
16.0 ft	7.8 fc	29.5 ft
24.0 ft	3.5 fc	44.2 ft
32.0 ft	2.0 fc	58.9 ft
40.0 ft	1.3 fc	73.7 ft
48.0 ft	0.9 fc	88.4 ft
56.0 ft	0.6 fc	103.1 ft
64.0 ft	0.5 fc	117.9 ft

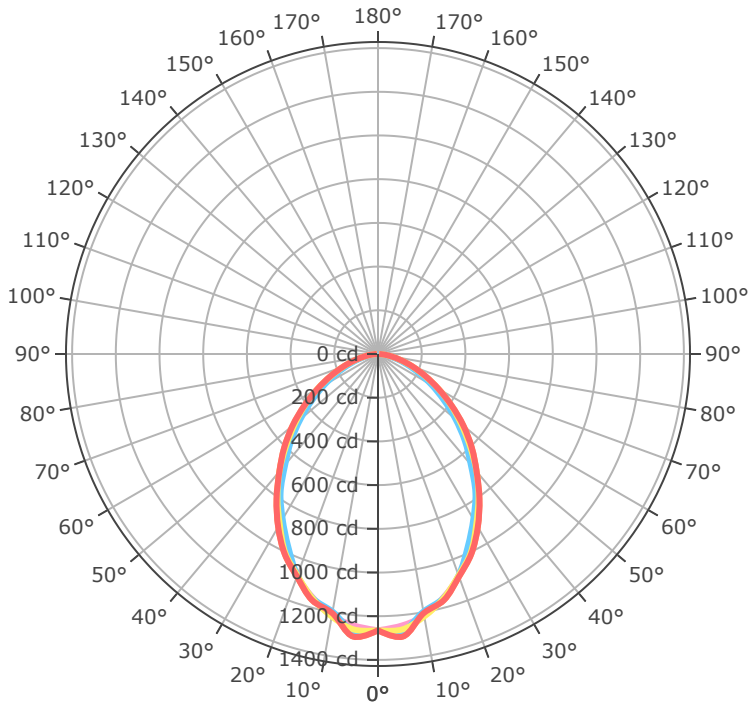
The Dryden Series

BLRD - Architectural Recessed

Architectural Lighting by



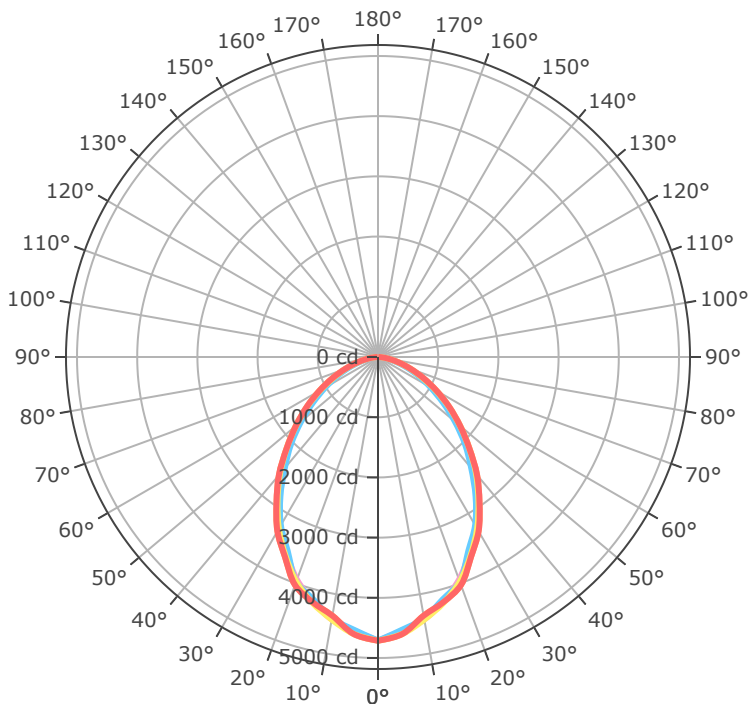
BLRD-2X4-2.5L-840-L18



- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	35.1 fc	11.5 ft
8.0 ft	19.8 fc	15.3 ft
10.0 ft	12.6 fc	19.1 ft
12.0 ft	8.8 fc	22.9 ft
14.0 ft	6.5 fc	26.7 ft
16.0 ft	4.9 fc	30.6 ft
24.0 ft	2.2 fc	45.8 ft
32.0 ft	1.2 fc	61.1 ft
40.0 ft	0.8 fc	76.4 ft
48.0 ft	0.5 fc	91.7 ft
56.0 ft	0.4 fc	106.9 ft
64.0 ft	0.3 fc	122.2 ft

BLRD-2X4-9L-840-L18



- 0.0°
- 45.0°
- 90.0°
- 135.0°
- 180.0°

Mtg Height	Light Level	Beam Diameter
6.0 ft	130.9 fc	11.0 ft
8.0 ft	73.6 fc	14.6 ft
10.0 ft	47.1 fc	18.3 ft
12.0 ft	32.7 fc	22.0 ft
14.0 ft	24.0 fc	25.6 ft
16.0 ft	18.4 fc	29.3 ft
24.0 ft	8.2 fc	43.9 ft
32.0 ft	4.6 fc	58.6 ft
40.0 ft	2.9 fc	73.2 ft
48.0 ft	2.0 fc	87.9 ft
56.0 ft	1.5 fc	102.5 ft
64.0 ft	1.2 fc	117.2 ft

The Dryden Series

BLRD - Architectural Recessed

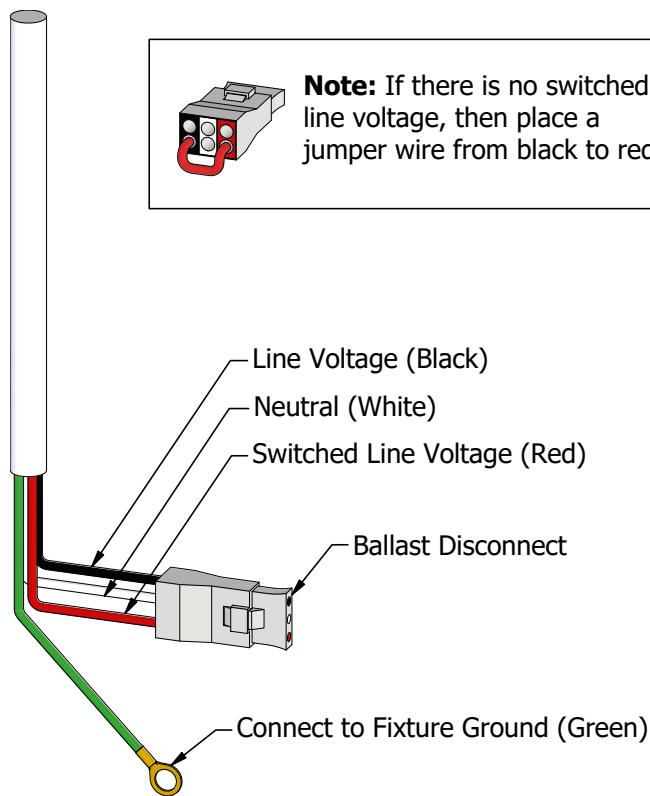
Emergency Driver, Activated Output

Wattage	Activated Output
10W	839 lm
16W	1342 lm

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.

The Dryden Series

BLRD - Architectural Recessed

THRIVE™ is an **optional** natural daylight technology replacing typical CRI order codes.



THRIVE™ Human-Centric Lighting

Order Code	Option	Use-case
8	80 CRI	Energy-efficient, lower cost, acceptable colour rendering for general lighting applications.
9	90 CRI	More accurate, natural and vibrant colour appearance. Suitable for retail, offices, and applications where colour accuracy is of higher importance.
1	95+ CRI	Near-perfect colour fidelity, excellent for architectural, medical, retail, and other premium applications.
0	THRIVE	Human-centric lighting engineered to provide the most accurate recreation of natural daylight. Highly beneficial for healthcare, office environments, schools and other applications where all-day comfort and general well-being are top priorities.

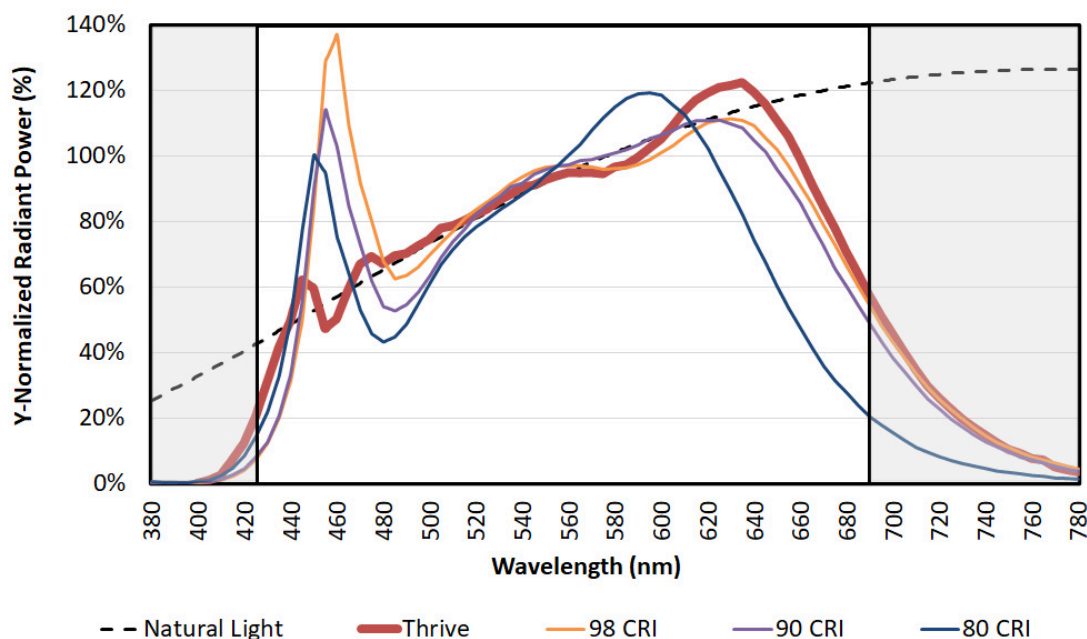
Engineered to provide the closest match to natural light available using proprietary chip, phosphor, and packaging technology, Thrive can be used in constant colour point luminaires to bring full spectrum natural light indoors, or in tunable white luminaires to incorporate circadian elements that may impact human well-being.

The high-fidelity spectral output of Thrive creates stunning environments with excellent colour rendering and outstanding TM-30 metrics. Target applications include office, education, healthcare, retail, hospitality, architectural, museums, and residential lighting.

 [Bridgelux White Paper - Average Spectral Difference.pdf](#)

The effect of the THRIVE™ spectral power distributions at a CCT of 4000K (typical for interior lighting in commercial, office, and education settings) is shown in the figure below. The reference light source at this colour temperature is firelight, represented diagrammatically as the blackbody curve (BBC) and referenced in the below figure as natural light. LEDs offering a CRI of 90 or 98 have a closer match to the blackbody curve than the 80 CRI light source. Nevertheless, across the entire visual spectrum, both light sources show a substantial deviation from the natural light BBC. This is shown in the spectral spikes (deviations above the blackbody curve) and valleys (deviations below the blackbody curve).

Spectral power distributions of LED light sources at 4000K against the blackbody curve.



The Dryden Series

BLRD - Architectural Recessed

Gallery Information

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

