DESCRIPTION

The Bridge™ LED recessed offers a traditional yet modern design with the latest in solid-state lighting technology. High performing WaveStream™ optics allow for maximum energy savings and optimal illumination in an ultra-minimalistic shallow recessed fixture. Two WaveStream optic options are available; a fully uniform pattern and a square pattern that provides a unique translucent appearance without sacrificing performance. Additional shielding options are also available including rectangular perf, round perf, and nano-prism inlays. Available in 2x2, 2x4, 1x4 sizes along with several popular metric sizes, the Bridge is highly configurable with well-thought-out options and a number of architectural styles for application versatility.

		Type
Catalog #		
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Shallow 96mm deep housing is a 22 gauge steel reflector with injection molded high-reflectance polycarbonate end plates securely attached with integral snaps and screws for strength, rigidity and the elimination of gaps. WaveStream light engine with extruded aluminum heatsinks span across the bottom of the luminaire. 20x60 fixture size constructed with metal plates on the ends of the light engine. Drivers can be accessed via plenum. Large access plate for supply connection. Fixture weight: 23.0 lbs (10.4 kg).

Optics
Optical grade acrylic embedded with patented WaveStream Accu-Aim™ optics for optimal distribution, excellent uniformity, and high performance. Center light engine becomes virtually clear in the off-state.

Shielding
Perf pattern and nano-prismatic inlays are available as additional aesthetic options. Perf inlay available in round or rectangular pattern. Nano-prismatic inlay is a high light transmission material offering additional brightness mitigation.

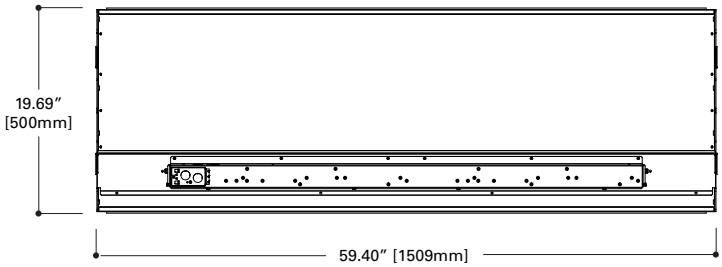
Finish
Fixture housing and back reflector are high reflectance white using electrostatically applied polyester powder coat paint for durability and luminous uniformity.

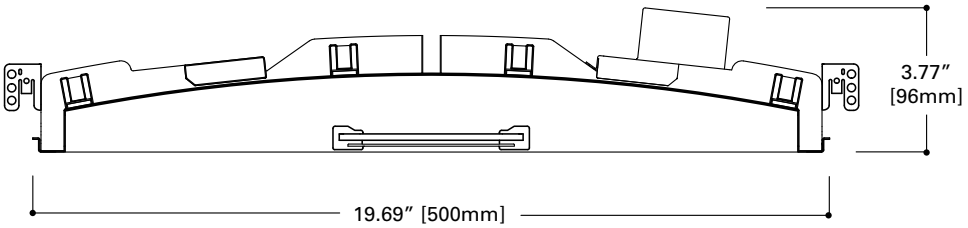
Electrical
Long-life LED system coupled with electrical driver to deliver optimal performance. Projected life is 100,000 at 75% lumen output. LEDs are available in 3000K, 3500K or 4000K with a typical CRI ≥ 85. Standard drivers are 0-10 volt continuous dimming that work with any 0-10V control/dimmer. Or, specify Digital Addressable Lighting Interface (DALI) drivers; for use with Fifth Light controls. See ordering information for details.

Mounting
Universal flange design works with most lay-in ceiling types. Integral pry-out tabs secure luminaire to ceiling grid from above. Fixture offers tie-in locations for tie-wire on all corners. Consult local code for appropriate tie-wire recommendations. See Technical Notes section for drywall frame kit and surface mount kit options.

Compliance
Components are UL recognized and luminaires are cULus listed for 25°C ambient environments, damp location listed, and RoHS compliant.Options to meet Buy American and other domestic preference requirements

Warranty
Five-year warranty.





BRIDGE - BRG

Fully Uniform

WaveStream™ LED

20" x 60" Recessed
96mm Depth

CERTIFICATION DATA
cULus - 1598
Damp Location Listed
IC Rated
LM79/LM80 Compliant
ROHS Compliant

2017 PROGRESS Report SELECTION

BAA

powered by fifthlight technology

ORDERING INFORMATION

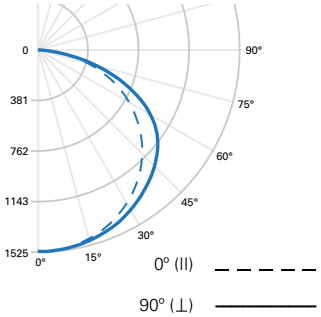
Sample Number: BRG-WS-3L35-LD2-UNV-2060-T1-STD-SVPD1

Domestic Preferences[13]	Series [1]	Optics/Shielding	Light Level (Nominal delivered lumens)	Color Temperature	LED Version	Input Voltage
[Blank] = Standard **BAA** = Buy American Act **TAA** = Trade Agreements Act	**BRG** = Bridge Recessed	**WS** = WaveStream Full Pattern **WD** = WaveStream with Round Perf Inlay **WG** = WaveStream with Rectangular Perf Inlay **WN** = WaveStream with Nano Prism Perf Inlay	**1** = Light Level 1 (3000 Lms, 27W) **2** = Light Level 2 (4000 Lms, 39W) **3** = Light Level 3 (5000 Lms, 47W) **4** = Light Level 4 (6000 Lms, 58W) **5** = Light Level 5 (7000 Lms, 70W)	**L30** = LED 3000K **L35** = LED 3500K **L40** = LED 4000K	**LD2** = LED 2.0	**UNV** = Universal (120V-277V) **347** = 347V [2][8]

Size	Ceiling Type	Driver Type	Integral Sensor (Optional)	Emergency (Optional)	Options
2060 = 20" x 60"	**T1** = 1" T-Bar, Slot Grid, and 9/16" Tegular [3] **T9** = 9/16" T-Bar (Flush)	**STD** = Standard 0-10V (10%-100%) **HCD** = 0-10V (1%-100%) [5] **STP** = Step Dimming (Bi-Level, 40%) [4][6] **5LT** = Fifth Light DALI (10%-100%) [3] **5LTHD** = Fifth Light DALI (1%-100%) [3][7] **SR** = Sensor Ready (5%-100%)	**SVPD1** = Integrated Occupancy/ Daylight Sensor for Local Control [9][12]	**EL14W** = 14-watt 120V-277V Integral EM Battery Pack [10] **RRU** = UL924 Bypass Relay [11]	**AR** = Air Return **W6** = 6' Whip Flex **W12** = 12' Whip Flex

See page 3 for technical notes

PHOTOMETRICS



FILE NAME: BRG-WS-3L35-LD2-UNV-24-STD.IES

LAMP: (LD2) LED 3500K

LUMENS: 5175 Lm

WATTS: 47.2 W

EFFICACY: 110 Lm/W

TEST NO.: P189656

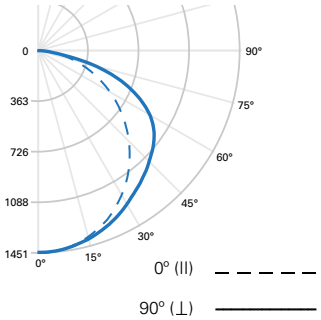
SC: (II) 1.31, (⊥) 1.37

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1215	23.5
0°-40°	2035	39.3
0°-60°	3835	74.1
0°-90°	5175	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2415	2528	2698
55°	2435	2663	2932
65°	2434	2775	3024
75°	2315	2742	2713
85°	1682	1594	1446



FILE NAME: BRG-WG-3L35-LD2-UNV-24-STD.IES

LAMP: (LD2) LED 3500K

LUMENS: 4669 Lm

WATTS: 47.2 W

EFFICACY: 99 Lm/W

TEST NO.: P189671

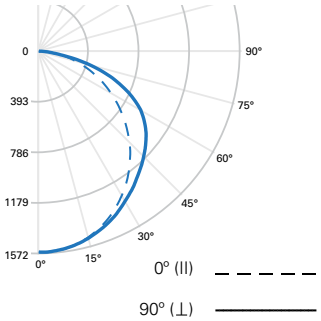
SC: (II) 1.24, (⊥) 1.32

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1129	24.2
0°-40°	1863	39.9
0°-60°	3446	73.8
0°-90°	4669	100

LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	2015	2230	2452
55°	1915	2368	2731
65°	1789	2599	2921
75°	1630	2703	2604
85°	1387	1446	1299



FILE NAME: BRG-WN-3L35-LD2-UNV-24-STD.IES

LAMP: (LD2) LED 3500K

LUMENS: 4829 Lm

WATTS: 47.2 W

EFFICACY: 102 Lm/W

TEST NO.: P189701

SC: (II) 1.29, (⊥) 1.29

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	1214	25.1
0°-40°	1994	41.3
0°-60°	3629	75.1
0°-90°	4829	100

LUMINANCE DATA (CD/M²)

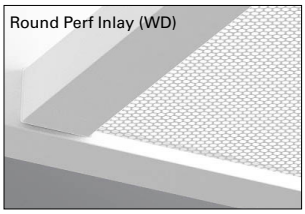
Vertical Angle	0°	45°	90°
45°	2168	2324	2510
55°	2049	2408	2708
65°	1929	2556	2824
75°	1739	2554	2425
85°	1476	1416	1209

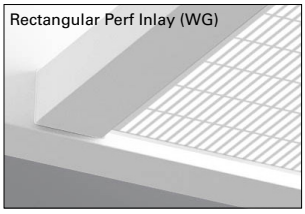
Note: Round Perf (WD) photometric performance is similar to Rectangular Perf (WG). Reference IES-format photometry online for more detail.

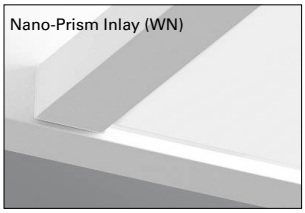
LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
25°C	>75%	125,000

INLAY OPTIONS







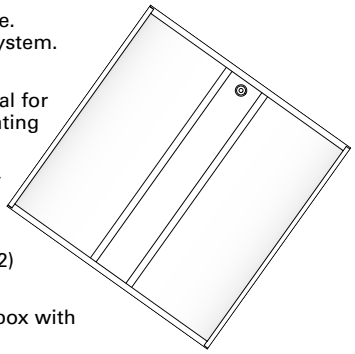
ENERGY AND PERFORMANCE DATA

Bridge Light Level Outputs and Distributions (3500K)				
Series	Light Level	Delivered Lumens	Wattage	Efficacy (LPW)
BRG-WS	1	3145	27.1	116
	2	4148	38.5	108
	3	5175	47.2	110
	4	6160	58.5	105
	5	7164	70.2	102
BRG-WD	1	2840	27.1	105
	2	3746	38.5	97
	3	4670	47.2	99
	4	5559	58.5	95
	5	6469	70.2	92
BRG-WG	1	2838	27.1	105
	2	3743	38.5	97
	3	4669	47.2	99
	4	5559	58.5	95
	5	6465	70.2	92
BRG-WN	1	2935	27.1	108
	2	3871	38.5	100
	3	4829	47.2	102
	4	5749	58.5	98
	5	6686	70.2	95

TECHNICAL NOTES

1. Dimming wires come standard in all LED fixtures but can be capped in the field for standard switched operation.
2. Integral 347V electronic driver with STD 0-10V option only. Factory supplied remote transformer for all other driver/dimming options.
3. Must be used in conjunction with a DALI control system. For a complete listing of Fifth Light Technology products and other solutions from Cooper Lighting Solutions, visit www.cooperlighting.com.
4. 20x60: STP driver not available in Light Levels 1.
5. 20x60: Two HCD drivers required for Light Levels 4 and 5.
6. 20x60: Two STP drivers required for Light Level 5.
7. 20x60: Two 5LTHD drivers required for Light Levels 4 and 5.
8. 20x60: Two 347V 0-10V drivers required for Light Level 5.
9. SV sensor works only with 0-10V drivers and is factory prewired to the driver for stand-alone control. Order part **#ISHH-01** for Programming Remote and part **#ISHH-02** for Personal Control Remote.
10. Integral emergency battery pack is 14W maximum, 90 minute output. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 14=1400 lumens). Emergency battery pack not available with two driver configurations.
11. Used to bypass local control and dimming for life safety operation. Product height with transfer device is 5" (126mm).
12. When luminaire is on an emergency circuit, integrated sensors require the RRU Emergency Option to disable sensor control during emergency operation.
13. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

SVPD1 INTEGRATED SENSOR



The Bridge with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Bridge delivers superior lighting with integrated PIR occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the Bridge delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

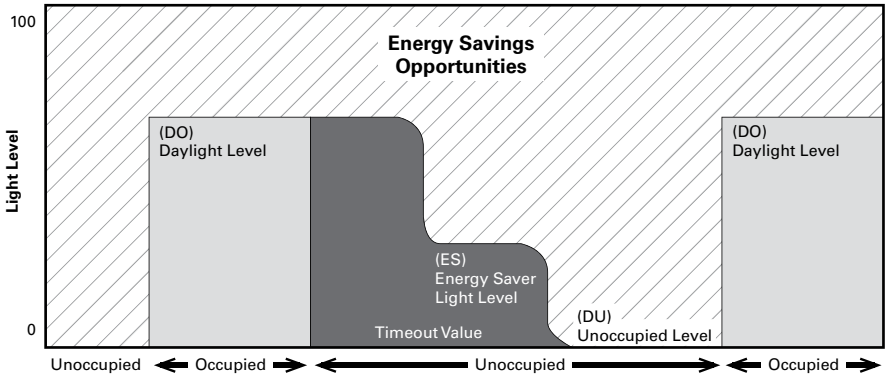
The integral daylight sensor reduces the need for special daylight zone planning. The luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Bridge with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

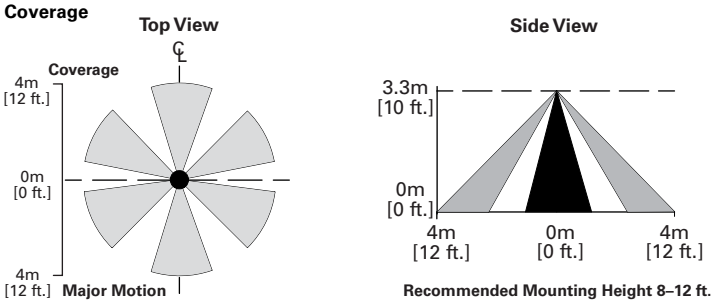
How it works:

- As the user enters the space controlled by the integral sensor, the lighting turns ON to the daylight level (default 500 lux).
- Lighting will remain at the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Target light level default: 500 lux at 8 ft.

Coverage



Recommended Mounting Height 8–12 ft.

Optional Remote Controls

ISHH-01 Programming Remote

ISHH-02 Personal Control Remote