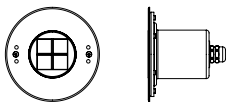
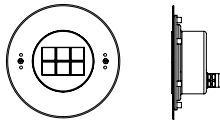




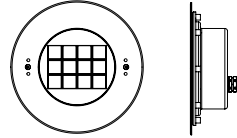
Ø: 5.3" (13.5 cm) 3" (7.7 cm)



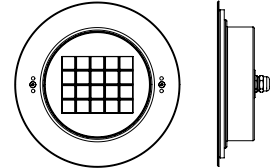
Ø: 7.1" (18 cm) 3" (7.7 cm)



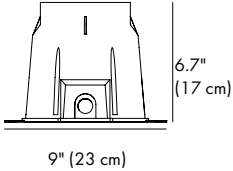
Ø: 7.9" (20 cm) 3.2" (8.1 cm)



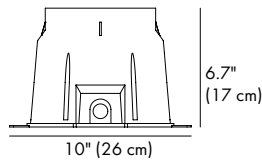
Ø: 9.8" (25 cm) 3.15" (8 cm)



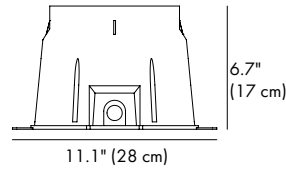
Ø: 5.1" (13 cm)



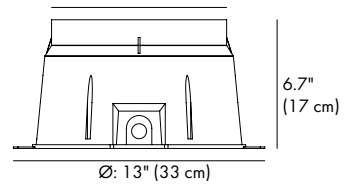
Ø: 6.3" (16 cm)



Ø: 7.1" (18 cm)



Ø: 9" (23 cm)



CODE:

BO-B4XCA0458F-UL

CODE:

BO-B4YBA0658F-UL

CODE:

BO-B4ZBA1258F-UL

CODE:

BO-B4FBA2058F-UL

LIGHT SOURCE:

4 × 2.7W OSRAM

LIGHT SOURCE:

6 × 3W OSRAM

LIGHT SOURCE:

12 × 2.5W OSRAM

LIGHT SOURCE:

20 × 3W OSRAM

LENS:

FB13B6

LENS:

FB14B7

LENS:

FB13B6

LENS:

FB13B6 / FB14B7

SELECTED DEGREE:(°)

20°

SELECTED DEGREE:(°)

20°

SELECTED DEGREE:(°)

20°

SELECTED DEGREE:(°)

20°

INPUT VOLTAGE:

110-277V

INPUT VOLTAGE:

110-277V

INPUT VOLTAGE:

110-277V

INPUT VOLTAGE:

110-277V

OPERATING CURRENT:

510 mA

OPERATING CURRENT:

1020 mA

OPERATING CURRENT:

1520 mA

OPERATING CURRENT:

3050 mA

CONSUMPTION:

12.2W

CONSUMPTION:

24.5W

CONSUMPTION:

36.5W

CONSUMPTION:

73.2W

LUMINANCE:

997 lm

LUMINANCE:

1354 lm

LUMINANCE:

2522 lm

LUMINANCE:

5561 lm

IK:

08

IK:

08

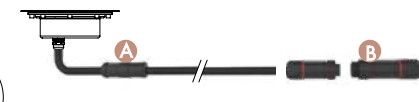
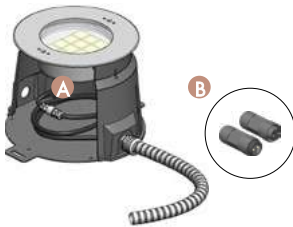
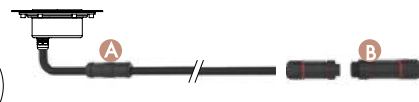
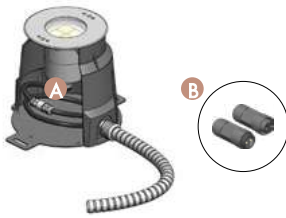
IK:

08

IK:

08

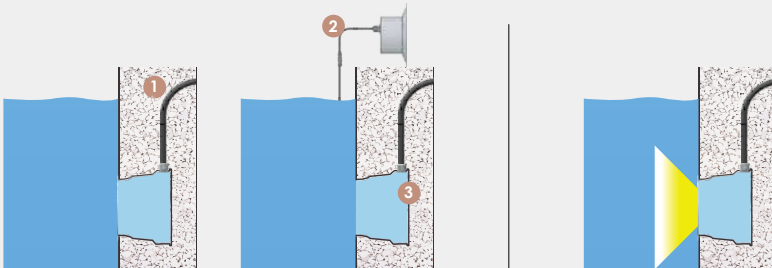
WATER PROOF SOLUTION



- A Water-Stopper(Included)**
A IP-67 water-stopper is added in the end of luminaires as standard assembly which is also an important system for water resistance.
- B IP68 Jiffy quick plug/socket connector (Option)**
A IP-68 connector is as an optional assembly and ensures that water vapor will not enter into luminaires directly.

- C Fixator:** Easier mounting sleeve installment.
- D IP68 cable gland:** Prevents water from getting into the cable tube. Please prepare your own cable tube.

INSTALLATIONS GUIDANCE



- 1 Power cable must be higher than water.
- 2 With certainable length for maintenance at shore.
- 3 The light must stay under water to prevent the chip from overheating.



sales@gordonbullarda.com
www.bullardoutdoor.com
1-877-964-4646



991 South Gull Lake Dr
Richland, MI 49083
USA

LIGHTING INFORMATION

FRONT COVER & HOUSING	Hard chromeplated molding shaped stainless steel SUS 316L#
LIGHT WINDOW	BO-B4XCA0458F-UL, BO-B4YBA0658F-UL: step tempered glass. T=8mm BO-B4ZBA1258F-UL, BO-B4FBA2058F-UL: step tempered glass. T=10mm
CABLE GLAND	IP68 PG-11 copper with nickel-coated
GASKET	Silicone gasket
RECESSED SLEEVEE	B4XCA0458F: PC/ABS ALLOYS 116# B4YBA0658F: PC/ABS ALLOYS 118# B4ZBA1258F: PC/ABS ALLOYS 119# B4FBA2058F: PC/ABS ALLOYS 179#
LENS	All-in-one OPTICS lens,efficiency≥85%
PCB	Excellent heat conductivity aluminum.coefficient of heatConductivity≥2.0w/mk
LED DRIVER	Constant Voltage Input,Constant Current Output
OPERATING TEMPERATURE	Temperature of water between -20°C~40°C less than 1 meter depth
BUILT-IN OVERHEAT SENSOR SYSTEM	Automatic Shutdown at 75°C
POWER CABLE OPTIONAL	Outside of luminaire - H07RN-F 2×1.0mm2 with water-stopper, L=1m, 3m, 5m
DIMMING SUPPORT	Triac PWM Available 1-10V Dali Customized

OPTICS Referenced Degree(°)θ1/2

	FB13B6	20°	50°
	FB14B7	20°	50°

PHOTOMETRIC

<p>B4YBA0658F(4x2.7W-815-20°)</p>	<p>Light distribution curve[Unit:cd]</p> <p>C45(MAX): 4530.941 C0/C180: 2718.567 C90/C270: 3624.753</p>	<p>Illuminance at a distance</p> <table border="1"> <thead> <tr> <th>Center beam LUX</th> <th>Beam width V</th> <th>H</th> </tr> </thead> <tbody> <tr><td>2m 1132.74 LUX</td><td>0.8m</td><td>0.8m</td></tr> <tr><td>4m 283.18 LUX</td><td>1.6m</td><td>1.6m</td></tr> <tr><td>6m 125.86 LUX</td><td>2.4m</td><td>2.4m</td></tr> <tr><td>8m 70.80 LUX</td><td>3.3m</td><td>3.2m</td></tr> <tr><td>10m 45.31 LUX</td><td>4.1m</td><td>4.1m</td></tr> <tr><td>12m 31.46 LUX</td><td>4.9m</td><td>4.9m</td></tr> </tbody> </table> <p>Vert.Spread:23.0 Horiz.Spread:23.1</p>	Center beam LUX	Beam width V	H	2m 1132.74 LUX	0.8m	0.8m	4m 283.18 LUX	1.6m	1.6m	6m 125.86 LUX	2.4m	2.4m	8m 70.80 LUX	3.3m	3.2m	10m 45.31 LUX	4.1m	4.1m	12m 31.46 LUX	4.9m	4.9m
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<p>B4YBA0658F(4x3W-815-20°)</p>	<p>Light distribution curve[Unit:cd]</p> <p>C45(Max): 5743.01 C0/C180: 4594.41 C90/C270: 3445.81</p>	<p>Illuminance at a distance</p> <table border="1"> <thead> <tr> <th>Center beam LUX</th> <th>Beam width V</th> <th>H</th> </tr> </thead> <tbody> <tr><td>2m 1435.75 LUX</td><td>0.8m</td><td>0.8m</td></tr> <tr><td>4m 358.94 LUX</td><td>1.7m</td><td>1.6m</td></tr> <tr><td>6m 159.53 LUX</td><td>2.5m</td><td>2.4m</td></tr> <tr><td>8m 89.73 LUX</td><td>3.3m</td><td>3.2m</td></tr> <tr><td>10m 57.43 LUX</td><td>4.2m</td><td>4.0m</td></tr> <tr><td>12m 39.88 LUX</td><td>5.0m</td><td>4.8m</td></tr> </tbody> </table> <p>Vert.Spread: 23.6 Horiz.Spread: 22.7</p>	Center beam LUX	Beam width V	H	2m 1435.75 LUX	0.8m	0.8m	4m 358.94 LUX	1.7m	1.6m	6m 159.53 LUX	2.5m	2.4m	8m 89.73 LUX	3.3m	3.2m	10m 57.43 LUX	4.2m	4.0m	12m 39.88 LUX	5.0m	4.8m
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<p>B4ZBA1258F(12x2.5W-815-20°)</p>	<p>Light distribution curve[Unit:cd]</p> <p>C0(Max): 10348.858 C0/C180: 6209.315 C90/C270: 4139.543</p>	<p>Illuminance at a distance</p> <table border="1"> <thead> <tr> <th>Center beam LUX</th> <th>Beam width V</th> <th>H</th> </tr> </thead> <tbody> <tr><td>2m 2587.22 LUX</td><td>0.8m</td><td>0.8m</td></tr> <tr><td>4m 646.80 LUX</td><td>1.7m</td><td>1.6m</td></tr> <tr><td>6m 287.47 LUX</td><td>2.5m</td><td>2.4m</td></tr> <tr><td>8m 161.70 LUX</td><td>3.3m</td><td>3.2m</td></tr> <tr><td>10m 103.49 LUX</td><td>4.2m</td><td>4.0m</td></tr> <tr><td>12m 71.87 LUX</td><td>5.0m</td><td>4.8m</td></tr> </tbody> </table> <p>Vert.Spread:22.5 Horiz.Spread:23.5</p>	Center beam LUX	Beam width V	H	2m 2587.22 LUX	0.8m	0.8m	4m 646.80 LUX	1.7m	1.6m	6m 287.47 LUX	2.5m	2.4m	8m 161.70 LUX	3.3m	3.2m	10m 103.49 LUX	4.2m	4.0m	12m 71.87 LUX	5.0m	4.8m
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<p>B4FBA2058F(20x3W-815-20°)</p>	<p>Light distribution curve[Unit:cd]</p> <p>C0(Max): 24078.285 C0/C180: 14446.972 C90/C270: 9631.314</p>	<p>Illuminance at a distance</p> <table border="1"> <thead> <tr> <th>Center beam LUX</th> <th>Beam width V</th> <th>H</th> </tr> </thead> <tbody> <tr><td>2m 6019.57 LUX</td><td>0.8m</td><td>0.8m</td></tr> <tr><td>4m 1504.89 LUX</td><td>1.6m</td><td>1.6m</td></tr> <tr><td>6m 668.84 LUX</td><td>2.5m</td><td>2.4m</td></tr> <tr><td>8m 376.22 LUX</td><td>3.3m</td><td>3.2m</td></tr> <tr><td>10m 240.78 LUX</td><td>4.1m</td><td>4.0m</td></tr> <tr><td>12m 167.21 LUX</td><td>4.9m</td><td>4.8m</td></tr> </tbody> </table> <p>Vert.Spread:22.6 Horiz.Spread:23.3</p>	Center beam LUX	Beam width V	H	2m 6019.57 LUX	0.8m	0.8m	4m 1504.89 LUX	1.6m	1.6m	6m 668.84 LUX	2.5m	2.4m	8m 376.22 LUX	3.3m	3.2m	10m 240.78 LUX	4.1m	4.0m	12m 167.21 LUX	4.9m	4.8m
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