WDJ340 : 4" BIONIC ROUND
1000LM-1500LM (20W-30W)

US Assembled · **IP65** · **IK08** · **RGBW Option** · **Intertek** (ETL Listed)
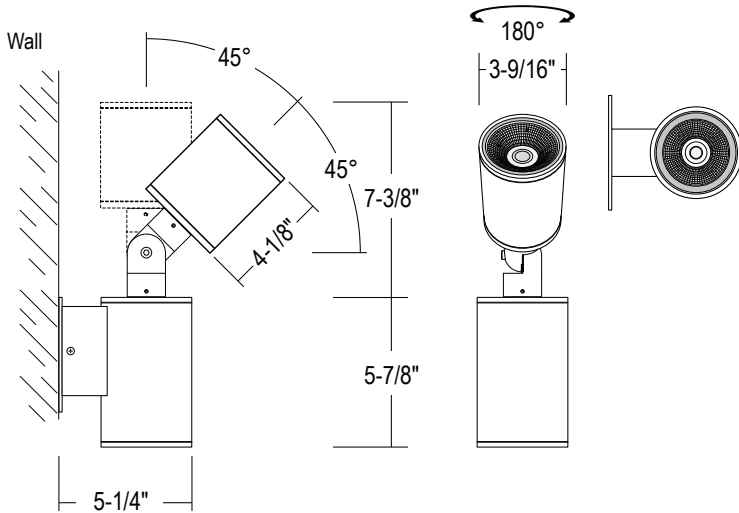
- Uniform, low glare illumination
- 120-277V Input options
- Glare Shields for eye comfort
- Wireless and wired RGBW options available (12W)
- Multiple Beam Spreads and Color Temperatures
- Weep holes for water drainage
- Integral J-box option
- Emergency Back-Pack option
- Available with Type IV/Forward Throw Optics

Dimensions: Wall · 45° · 45° · 180° · 3-9/16" · 7-3/8" · 4-1/8" · 5-7/8" · 5-1/4"

ORDERING : WDJ340B-BADJ10-BF20-UE-DUN-T27

WDJ340

Fixture	Finish	Lumen	Optics (Adjustable)	Optics (Fixed)	Dimming	Emergency Options	LED	Options

Finish

White	(RAL 9003)	**W**
Black	(RAL 9005)	**B**
Bronze	(RAL 8019)	**BZ**
Silver	(RAL 7037)	**S**[1]
Light Silver	(RAL 7036)	**LS**[1]
Dark Grey	(RAL 7015)	**DG**[1]
Metallic Gold	(RAL 1001)	**MG**[1]
Metallic Black	(RAL 7021)	**MB**[1]

Lumen

2 x 1000lm (20W)	**Blank**
2 x 1500lm (30W)	**-L15**

Optics

Beam Adjustable Fixture

Standard Beams

Wide Flood	**Blank**
Narrow Spot	**-BADJ10**
Spot	**-BADJ20**
Flood	**-BADJ45**

CleanBeam™ Option

10° Pencil Beam	**-CBADJ10**

Beam Fixed Fixture

Standard Beams

Wide Flood	**Blank**
Narrow Spot	**-BF10**
Spot	**-BF20**
Flood	**-BF45**

CleanBeam™ Option

10° Pencil Beam	**-CBF10**

Specialty Beams

Wall Wash	**-BFWW**
Forward Throw (Type IV)	**-BFIV**
Type IIVS (30° x 60°)	**-BFII**

Dimming

Non-Dimming (120V)	**Blank**
ELV and Triac Dimming (120V)	**-DIN**[3]
0-10V Dimming (120V/277V)	**UE-D10**[3]
UniDim™ (120V/277V)	**UE-DUN**[3]
0-10V 1% Dimming (120V/277V)	**UE-D10P1**[3]

Emergency Options[8]

Remote	**-EMAC**[9]
BackPack (Side Mount)	**-EMB-SD**[6]
BackPack (Face Mount)	**-EMB-FC**[6]
BackPack (Empty)	**-EMB-BLANK**[6,7]

LED

4000K (90 CRI)	**Blank**
2700K (90 CRI)	**-T27**
2700K (97 CRI)	**-T27-C97**[1]
3000K (90 CRI)	**-T30**
3000K (97 CRI)	**-T30-C97**[1]
3500K (90 CRI)	**-T35**
5000K (80 CRI)	**-T50**
RGB+W Control (24VDC)	**-RGBWV24**[2]

Options

None	**Blank**
Black Hexcell Louver	**-LVR**
Integral Junction Box 1-Entry	**-JBL, JBR**[5]
Photocell Sensor	**-SDL**
Surge Protector	**-SRG**
Cold Weather	**-CW**[4,6]
Glare Shield (Up)	**-SHU**
Glare Shield (Down)	**-SHD**
Glare Shield (Up and Down)	**-SH**

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[1] Special Order. Minimum order, extended lead time may apply. Consult factory. (Finish options 50 piece minimum. 10-12 week lead time).
[2] Remote Power Supplies and Control Gear Required, Available with Wireless Bluetooth or DMX Control. Consult Factory for Details.
[3] Standard Driver Starting Temp -10°C/14°F.
[4] Starting Temp -30°C/-22°F.
[5] Specify (JBL) left or (JBR) right entry
[6] (-EMB) is not compatible with (-CW) option.
[7] Blank EM enclosure available for Non-EM units to provide a seamless design aesthetic when EM enabled products are installed.
[8] Only available for the Fixed fixture. Emergency options not available on both fixtures.
[9] Reference Page 4 for (-EMAC) wiring diagram.

2024.03.11

SPECIFICATION

Application

This WDJ series bi-directional wall mount luminaire can be used for both interior and outdoor settings. The dual reflector design can be used for both direct downward and indirect upward illumination for new construction or retrofit installations. Typical locations are in residential, commercial, and architectural facades and retail spaces that contain walls and/or columns.

Housing/Arm

Housing is constructed from a round one piece high grade aluminum extrusion with a rectangular extrusion arm. Extrusions are 6061 alloy; <04% Cu. Top and bottom Faceplates (with flush mounted tempered glass lenses) are of a robust die cast aluminum alloy and seal to the Housing by threading into it. Lenses are sealed via silicone o-rings.An aluminum alloy mounting plate with a U-bracket installs onto an electrical junction box and secures into the arm with two (2) fl at head countersunk phillips head stainless steel screws.

Mounting:

The 4-1/4" square mounting plate with U-bracket installs onto a 3-1/2" or 4" octagonal electrical junction box. For other junction box sizes see installation instructions.

Finish:
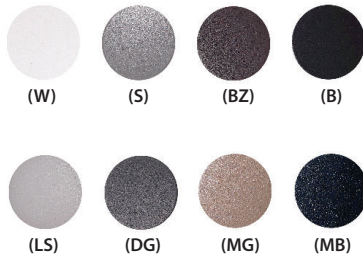
A 7-stage electrostatic, polymer process provides an outdoor textured powder coat finish that delivers outstanding durability, superior anti-aging, resistance to corrosion and UV-degradation. Consult factory for Custom Color. (More Information)

(W) (S) (BZ) (B)

(LS) (DG) (MG) (MB)

Standard Finishes:

White:	RAL 9003	(W)
Silver:	RAL 7037	(S)
Basic Bronze:	RAL 8019	(BZ)
Black:	RAL 9005	(B)

Special Order Finishes:

Light Silver:	RAL 7036	(LS)
Dark Gray:	RAL 7015	(DG)
Metallic Gold:	RAL 1001	(MG)
Metallic Black:	RAL 7021	(MB)

Certifications and Listings:

ETL / cETL Listed to UL1598 and UL8750 standards.

Suitable wet locations. (IP65)

Assembled in USA.

IK08 rated for impact resistance.

ETL Intertek   IP65

US Assembled   IK08

SPECIFICATION (Continued)

Caution:	LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty.

Warranty

	Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Fixture should not be installed in applications with ambient temperature above 50°C/122°F. Doing so will result in reduced lamp life and voided warranty.

Optics

	Up and Down multifaceted aluminum reflectors produce low glare illumination with multiple light control options.
Standard Beam:	Used for maximum light output and visible field angle.
CleanBeam™ :	Used for a direct uniform light output with minimized field angle and to enhance building aesthetics.

LED

	COB (Chip on Board) singular LED light source provides for smooth, uniform light output, eliminating the imaging produced by multiple LED source optics.
Lumen Maintenance:	Lumen Maintenance is aminimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.
Lumen Options (Nominal):	2 x1000lm (20W) 2 x1500lm (30W)

Color Temperature: Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.

2700K	3000K	3500K
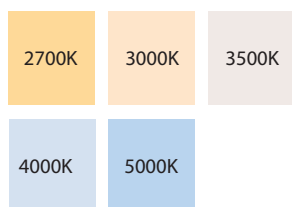
4000K	5000K

COLOR TEMP:	2700K	3000K	3500K	4000K	5000K
CRI:	90, 97	90, 97	90	90	80

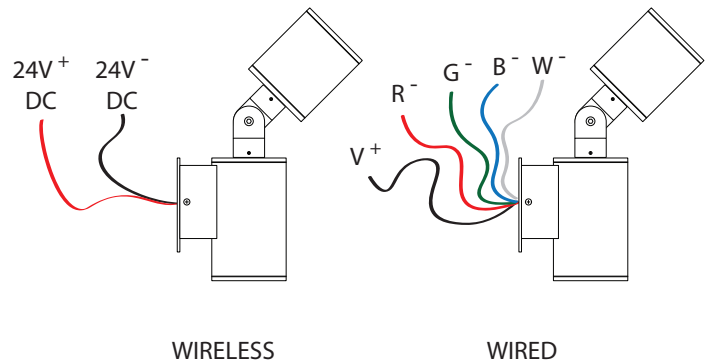## SPECIFICATION (Continued)

RGB+W:

15W RGBW LED Module Illuminates surfaces up to 10 feet away. Used for applications desiring a dynamic color changing effect. RGB+W design allows fine-tuned pastel colors and saturated hues without sacrificing illumination brightness. Can be set for static colors or dynamic shows. Multiple control options available with either Wireless Bluetooth control or DMX 512 remote mounted decoders.

On-site commissioning and programing available.

Consult Factory for Layout Assistance and Lead Times.

COLOR	CCT/WAVELENGTH	POWER
Red	640nm	3.1W
Green	520nm	3.1W
Blue	450nm	3.1W
White	2700K	3.1W

WIRELESS

WIRED

SPECIFICATION (Continued)

Emergency Options

When AC power fails, provides 90 minutes of power to the luminaire. In the event of a power failure, the LED Emergency backup switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single enclosure. (-EMB-SD/FC/BLANK) not for use with -CW (Cold Weather) option. Consult factory.
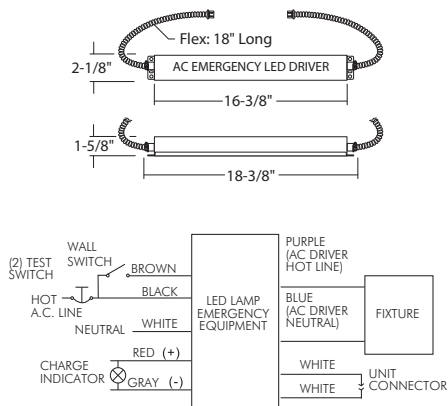
Remote Emergency Back Up (-EMAC)

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- Must be installed in Dry Locations
- Wattage package will determine if 25W or 40W battery gets sent; corresponding wiring diagrams below

Not rated for outdoor mounting.

Damp location rated.

Output Power:	25 Watts (Max)
Input Power:	6 Watts (Max)
Emergency Operation:	≥90 minutes
Operating temp:	0°C/32°F to 50°C/122°F
Input Voltage:	100-277 VAC, 50-60Hz
Battery:	High Temp Nickel-Cadmium
	48 Hour Recharge
	7-10 Year Life Expectancy
Charge Time:	24 hours
Max Distance:	25'
Weight:	3 lbs.
Warranty:	2-year
Surge Protection:	None
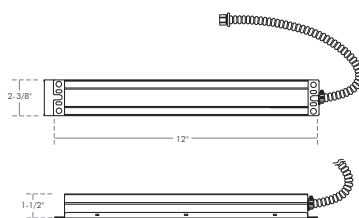
Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	40W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	3500lm
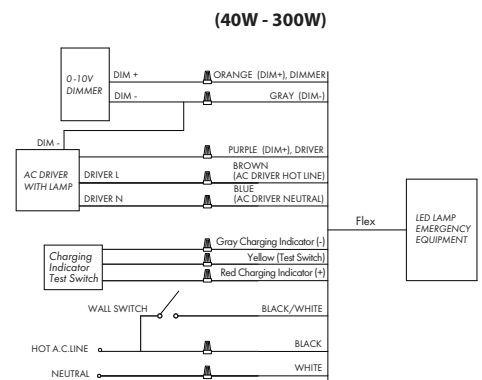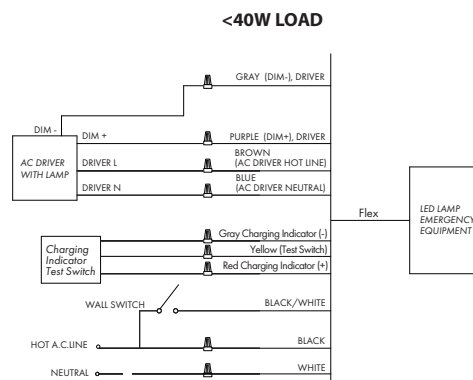
SPECIFICATION (Continued)

BackPack Side Mount (-EMB-SD/FC)

Illuminates need for long runs back to remote emergency battery location. Installs directly on building surface. Ideal for locations wanting same mounting aesthetics for Emergency and Non-Emergency fixtures without the use of remote Emergency power. Can be fed from recessed wall mounted junction box from the back of fixture.

- Wet location rated.
- 120V-347V operation.
- Self diagnostic.
- Integral surge protector for emergency driver only.
- Includes (2) 1/2" NPT knock-outs.
- Optional -EMB-BLANK can be used to maintain a common aesthetic when -EMB-FC are used.

|	
Input Voltage:	120-347 Vac (50/60 Hz)
Input Power:	7 Watts
Output Voltage:	170 V DC
Input Current:	100mA
Output Power:	18W
Surge Protection:	Line-Neutral 3000V
EM Operation:	90 minutes
Charge Time:	24 hour recharge
Ambient Temperature:	0°C to + 50°C (30°F to 122°F)
Weight:	3.7 lb
Rating:	cUL

MODE	TEST SWITCH	INDICATOR STATUS	COMMENT
AC MODE 1	NOT PRESSED	ON (no flash)	EM DRIVER is CHARGING
AC MODE 2	PRESSED ONCE	2s ON THEN 2s OFF (slow flashing)	EM DRIVER is running 30s DIAGNOSTICS test
AC MODE 3	PRESSED TWICE [2s] in sequence	2s ON THEN 2s OFF (slow flashing)	EM DRIVER is running 90min DIAGNOSTICS test
EM MODE 1	NOT PRESSED	2s ON THEN 2s OFF (slow flashing)	EM DRIVER IS OUTPUTING EM CONSTANT POWER LOAD
EM MODE 2	PRESSED ONCE		EM DRIVER IS OFF

When indicator flashes (0.2s) ON and then 0.2s (OFF) quickly or turns off, unit is defective. Contact manufacturer.

20W, 30W
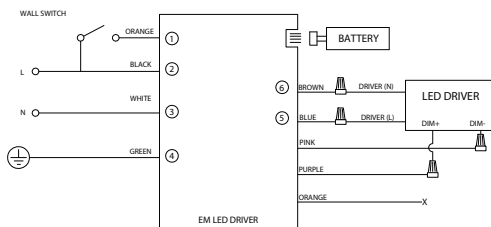
20W, 30W (Dimmer)
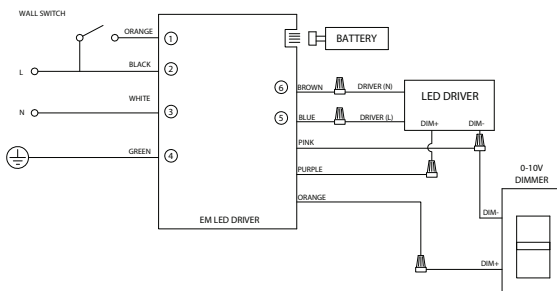
NOTE: WHEN LED FIXTURE POWER IS MORE THAN 18W LED FIXTURE MUST BE EQUIPPED WITH 0-10V DIMMABLE DRIVER

SPECIFICATION (Continued)

Additional Options

Optional J-Box (Direct Conduit Entry:

For use with mounting locations without a recessed junction box.
Allows for direct mounting to building surface. Not for through wiring.

JBL   JBR

Luminaire shown
with -JBR (1) conduit
right entry.

FRONT VIEW
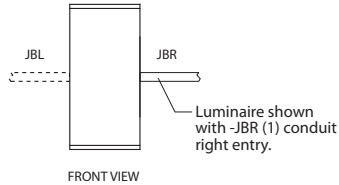
Configure as:

-JBL, JBR: (1) conduit entry from left or
right looking at fixture

Hexcell Louver (-LVR):

3 mm /.125" (size of the cells) - matte black finish, 45° glare cutoff, unframed.

Photocell (-SDL):

Allows for energy savings when illumination is not need during between dawn to dusks.
Cuts off power to LED's during day time or in illuminated environments.

Voltage: 120V, 277V

Power Consumption .5W

On/Off Levels: On @ 0-2fc / Off @ 2fc or more

Warranty: 2-Year / 5,000 Cycles

Sensor Size: 3/8"

Rating: UL/cUL

Surge Suppressor (-SRG):

Protects driver against surges in line voltage/current
(20KV, 1.2/50µS & 10KA, 8/20µS).

Provides a positive indication of end-of-life by opening voltage to the load.

Surge suppressor is a perishable device requiring periodic replacement.

Not a warrantied item.

SPECIFICATION (Continued)

Electrical

LED Driver: AC 50/60Hz Electronic Direct Current Class 2 driver integrally mounted.
Power Factor > 0.90. See Dimming Section for voltage and wiring.

Minimum Operating Temperature.
Standard: -10°C/14°F

Dimming Options

ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.
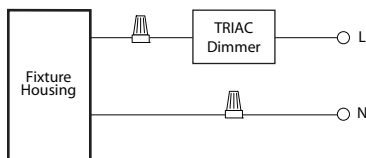
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.
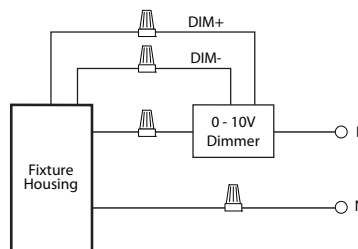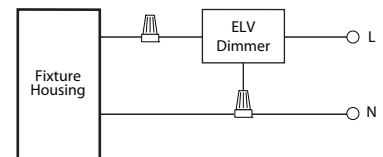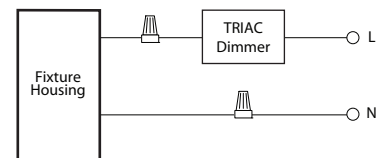
Incandescent/Phase Wiring
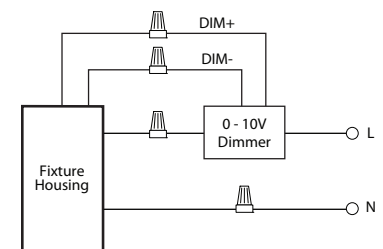ELV
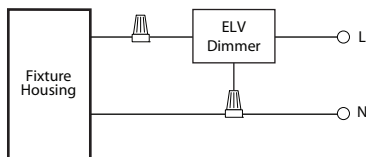
TRIAC

0 - 10V Wiring

Incandescent/Phase Wiring
ELV

TRIAC

0 - 10V Wiring

LITON OUTDOOR

PHOTOMETRY

WDJ340BZ-L15UE-DUN-T40 (2x1500lm, 30W, 50°, 4000K)

System Power:	29.14W
Test Date:	02/2024
Beam Angle 50%:	48.5°
Field Angle 10%:	78.7°
Color Temperature:	4039K
CRI:	93.4
Lumens Delivered:	2x1372
CBCP:	1934.6
Power Factor:	0.93

MULTIPLIERS

CCT	
2700K :	0.88
3000K :	0.92
3500K :	**1.00**
4000K :	**1.00**

Lumens	
Blank	0.72
-L15	**1.00**

CANDELA TABULATION
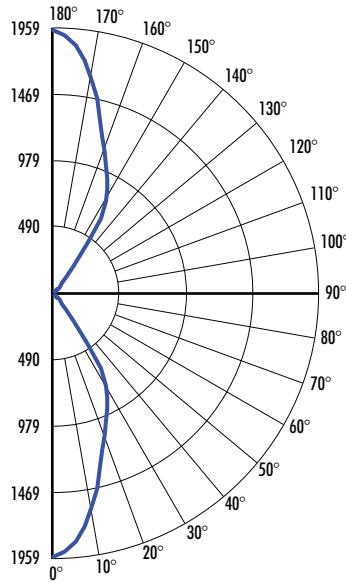
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	14.41'	7.56
14.0'	12.61'	9.87
12.0'	10.81'	13.43
10.0'	9.01'	19.35
8.0'	7.21'	30.23
8.0'	7.21'	30.23
10.0'	9.01'	19.35
12.0'	10.81'	13.43
14.0'	12.61'	9.87
16.0'	14.41'	7.56

WDJ340BZ-L15-BADJ10-BF10UE-DUN-T40 (2x1500lm, 30W, 15°, 4000K)

System Power:	29.2W
Test Date:	02/2024
Beam Angle 50%:	15.0°
Field Angle 10%:	30.0°
Color Temperature:	4136K
CRI:	93.4
Lumens Delivered:	2x1583
CBCP:	12312.21
Power Factor:	0.93

MULTIPLIERS

CCT	
2700K :	0.88
3000K :	0.92
3500K :	**1.00**
4000K :	**1.00**

Lumens	
Blank	0.72
-L15	**1.00**

CANDELA TABULATION
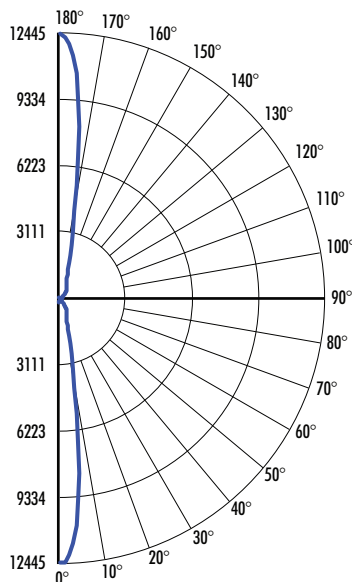
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	4.21'	48.09
14.0'	3.69'	62.82
12.0'	3.16'	85.50
10.0'	2.63'	123.12
8.0'	2.11'	192.38
8.0'	2.11'	192.38
10.0'	2.63'	123.12
12.0'	3.16'	85.50
14.0'	3.69'	62.82
16.0'	4.21'	48.09

PHOTOMETRY (Continued)

WDJ340BZ-L15-BADJ20-BF20UE-DUN-T40 (2x1500lm, 30W, 20°, 4000K)

System Power:	29.16W
Test Date:	02/2024
Beam Angle 50%:	14.9°
Field Angle 10%:	27.9°
Color Temperature:	4149K
CRI:	92.5
Lumens Delivered:	2x1556
CBCP:	13153.40
Power Factor:	0.93

MULTIPLIERS

CCT	
2700K :	0.88
3000K :	0.92
3500K :	**1.00**
4000K :	**1.00**

Lumens	
Blank	0.72
-L15	**1.00**

CANDELA TABULATION
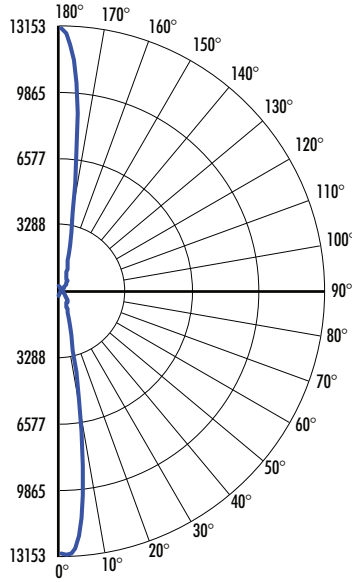
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	4.18'	51.02
14.0'	3.66'	66.63
12.0'	3.14'	90.70
10.0'	2.62'	130.60
8.0'	2.09'	204.06
8.0'	2.09'	204.06
10.0'	2.62'	130.60
12.0'	3.14'	90.70
14.0'	3.66'	66.63
16.0'	4.18'	51.02

WDJ340BZ-L15-BADJ45-BF45UE-DUN-T40 (2x1500lm, 30W, 45°, 4000K)

System Power:	29.12W
Test Date:	02/2024
Beam Angle 50%:	30.5°
Field Angle 10%:	68.8°
Color Temperature:	4151K
CRI:	93.5
Lumens Delivered:	2x1559
CBCP:	3868.36
Power Factor:	0.92

MULTIPLIERS

CCT	
2700K :	0.88
3000K :	0.92
3500K :	**1.00**
4000K :	**1.00**

Lumens	
Blank	0.72
-L15	**1.00**

CANDELA TABULATION
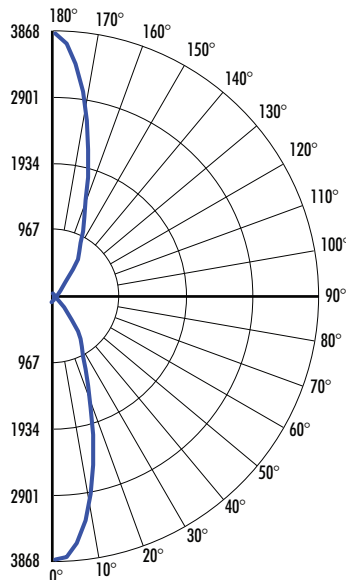
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	8.72'	15.11
14.0'	7.63'	19.74
12.0'	6.54'	26.86
10.0'	5.45'	38.68
8.0'	4.36'	60.44
8.0'	4.36'	60.44
10.0'	5.45'	38.68
12.0'	6.54'	26.86
14.0'	7.63'	19.74
16.0'	8.72'	15.11

PHOTOMETRY (Continued)

WDJ340BZ-L15-CBADJ10-CBF10UE-DUN-T40 (2x1500lm, 30W, 10°, 4000K)

System Power:	29.3W
Test Date:	02/2024
Beam Angle 50%:	15.1°
Field Angle 10%:	30.7°
Color Temperature:	4154K
CRI:	93.2
Lumens Delivered:	2x441
CBCP:	709.49
Power Factor:	0.92

MULTIPLIERS

CCT	
2700K :	0.88
3000K :	0.92
3500K :	**1.00**
4000K :	**1.00**

Lumens	
Blank	0.72
-L15	**1.00**

CANDELA TABULATION
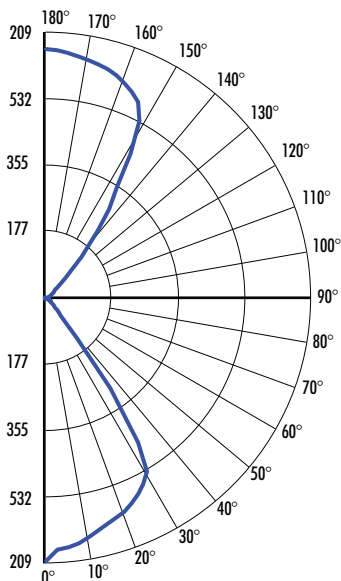
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	4.24'	2.77
14.0'	3.71'	3.62
12.0'	3.18'	4.93
10.0'	2.65'	7.09
8.0'	2.12'	11.09
8.0'	2.12'	11.09
10.0'	2.65'	7.09
12.0'	3.18'	4.93
14.0'	3.71'	3.62
16.0'	4.24'	2.77