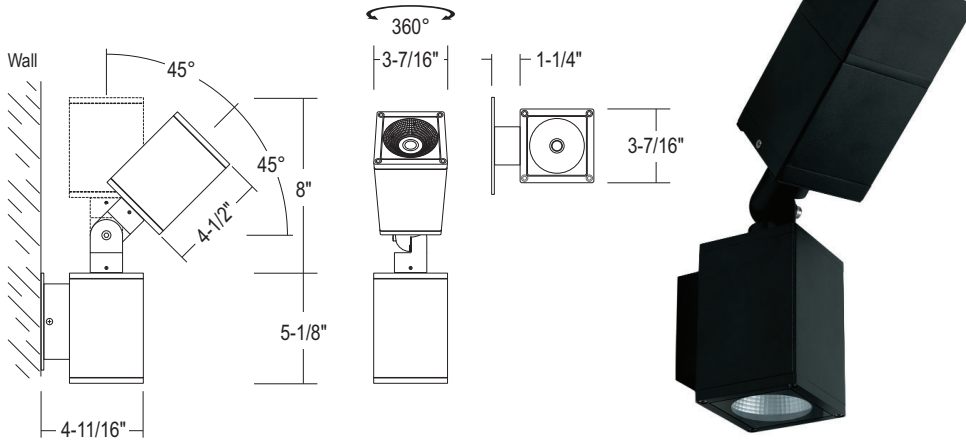


WDQJ340 : 4" BIONIC SQUARE

2 x 1000LM-1500LM (20W-30W)



- Lockable Adjustability
- Uniform, Low-Glare Illumination
- 120V/277V Input Standard, 347V Available
- Wireless and Wired RGBW Options Available (12W LED)
- Improved Beam Spreads and Color Temperature Options
- Weep Holes for water drainage
- NEW Emergency Back-Pack Option Available
- NEW Glare Shields for eye comfort
- Available with Type IV Forward Throw and Type II Asymmetric Distributions

ORDERING : WDQJ340W-BADJ10-BF45UE-D10-EMAC-T27

WDQJ340

Fixture	Finish	Lumen	Optics (Adjustable)	Optics (Fixed)	Dimming	LED	Emergency Options	Options
Finish		Optics		Dimming³		Emergency Options		
White (RAL 9003)	W	<i>Adjustable Head</i>		<i>Fixed Head</i>		Non-Dimming (120V)	Blank	None Blank
Black (RAL 9005)	B	<i>Standard Beams</i>		<i>Standard Beams</i>		ELV and Triac Dimming (120V)	-DIN	Remote -EMAC
Bronze (RAL 8019)	BZ	Wide Flood	Blank	Wide Flood	Blank	0-10V Dimming (120V/277V)	UE-D10	BackPack (Side Mount) -EMB-SD
Silver (RAL 7037)	S	Narrow Spot	-BADJ10	Narrow Spot	-BD10	UniDim™ (120V/277V)	UE-DUN	BackPack (Face Mount) -EMB-FC
Light Silver (RAL 7036)	LS¹	Spot	-BADJ20	Spot	-BD20	0-10V	UE-D10P1	BackPack (Empty) -EMB-BLANK⁴
Dark Grey (RAL 7015)	DG¹	Flood	-BADJ45	Flood	-BD45	1% Dimming (120V/277V)		
Metallic Gold (RAL 1001)	MG¹	<i>CleanBeam™ Option</i>		<i>CleanBeam™ Option</i>		LED		Options
Metallic Black (RAL 7021)	MB¹	10° Pencil Beam	-CBADJ10	10° Pencil Beam	-CBD10	4000K (90 CRI)	Blank	None Blank
		25° Clean Beam	-CBD20	25° Clean Beam	-CBD20	2700K (90 CRI)	-T27	Black Hexcell -LVR
		35° Clean Beam	-CBD35	35° Clean Beam	-CBD35	2700K (97 CRI)	-T27-C97²	Louver
		<i>Specialty Beams</i>		<i>Specialty Beams</i>		3000K (90 CRI)	-T30	Photocell Sensor -SDL
		Wall Wash	-BFWW	Wall Wash	-BFWW	3000K (97 CRI)	-T30-C97²	Surge Protector -SRG
		Forward Throw (Type IV)	-BFIV	Forward Throw (Type IV)	-BFIV	3500K (90 CRI)	-T35	Glare Shield (Adjustable) -SHA
		Type IIVS (30° x 60°)	-BFII²	Type IIVS (30° x 60°)	-BFII²	5000K (80 CRI)	-T50	Glare Shield (Fixed) -SHD
						RGB+W Control (24VDC)	-RGBWV24⁵	Glare Shield (Adjustable and Fixed) -SH
								Marine Grade -MG²

¹ Special Order Finish. Minimum order quantity (MOQ) applies. Orders less than MOQ are subject to a special paint set-up fee for the quantity ordered. Extended lead times may apply. Consult Factory.

² Special Order. Minimum order quantity (MOQ), extended lead time may apply. Consult Factory.

³ Standard Driver Starting Temp -10°C/14°F.

⁴ Blank EM enclosure available for non-EM units to provide a seamless design aesthetic when EM enabled products are installed.

⁵ Remote Power Supplies and Control Gear required. Available with Wireless Bluetooth Casambi or DMX 512 control. Consult Factory for Details.

Energy Efficient Chip-On-Board (COB) Singular LED Light source provides for smooth uniform light output, eliminating the multiple shadow effect seen by multiple LED source products.

Binned with 3-Step MacAdam Ellipses as recommended by Ansi Standard. Available in 2700k, 3000k, 3500k, 4000k, 5000k.

Custom RAL Color: Please note that we appreciate custom finishes. Custom finishes are subject to a special paint setup fee for the quantity ordered. Extended lead times may apply. Consult Factory.

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.

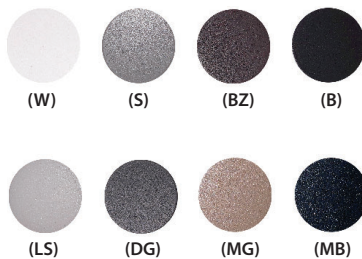
Housing/Arm

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. Elbow joint can swivel and be adjusted vertically to allow for 180° rotation horizontally and 90° vertically. Lock nut and teeth on the joint lock the fixture into position. 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)

Standard Finishes:

White: RAL 9003 (W)
Silver: RAL 7037 (S)
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.



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™: LED Used for a direct uniform light output with minimized field angle and to enhance building aesthetics.

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:

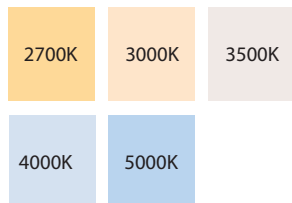
Lumen Maintenance is a minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Lumen Options (Nominal):

2 x1000lm (20W)
2 x1500lm (30W)

Color Temperature:

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



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

SPECIFICATION (Continued)

RGB+W:



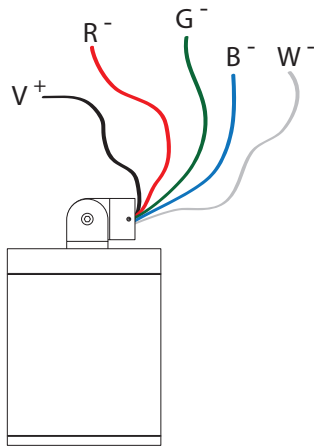
CASAMBI

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 CASAMBI Wireless Bluetooth control or DMX 512 remote mounted decoders.

On-site commissioning and programming available.

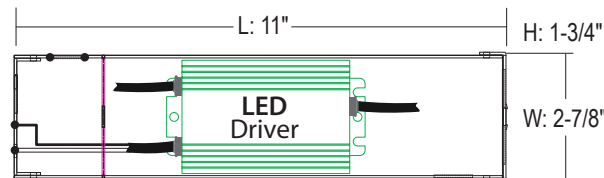
Consult Factory for Layout Assistance and Lead Times.

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

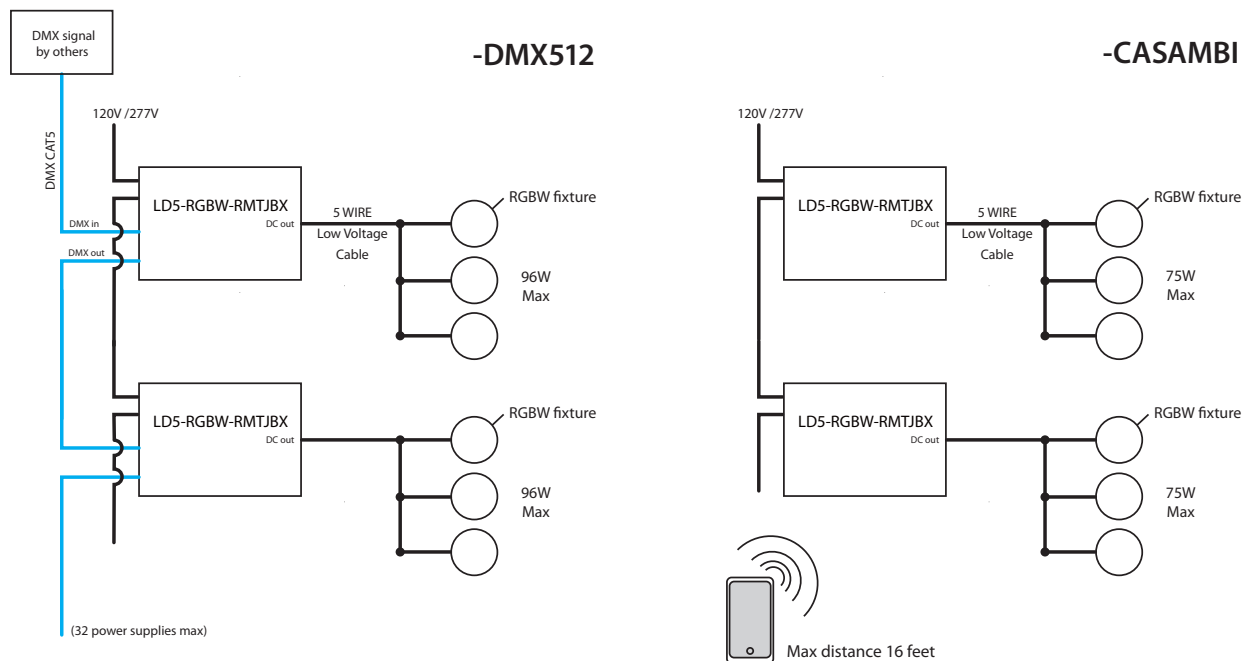


WIRED

Remote Power Supply	Controls	Wattage
LD5-RGBW-RMTJBX	Remote Mounted Decoder -DMX512	15W -W15
	Wireless Bluetooth Control -CASAMBI	30W -W30
		60W -W60
		96W -W96



Junction Box Dimensions: 11" x 2-7/8" x 1-3/4" (LxWxH)



NOTE: Power supply must be placed in dry locations only. 100 feet max for 5 wire low voltage cable 18AWG.

SPECIFICATION (Continued)

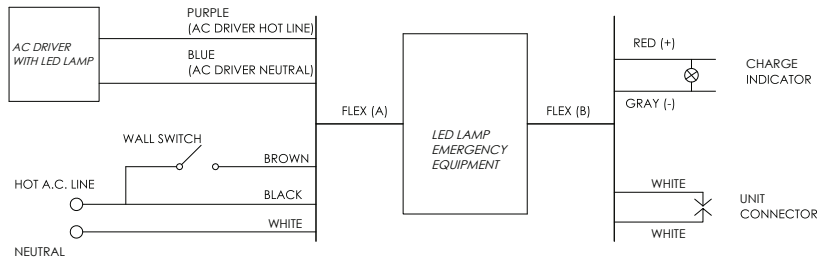
REMOTE LOCATION EMERGENCY INVERTER (-EMAC): 25W and 40W

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
- 170 VDC output to AC DRIVER during EM mode

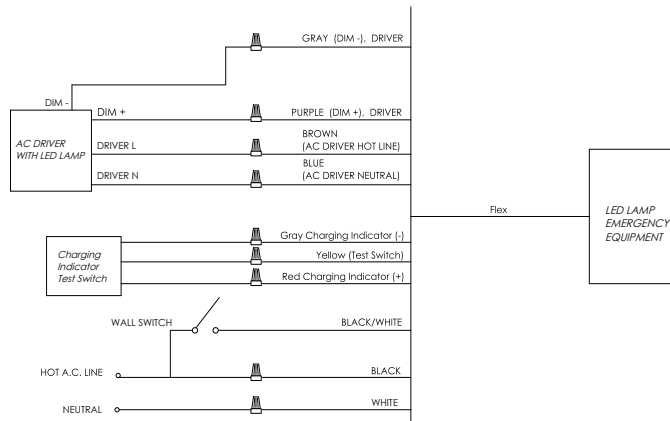
Not rated for outdoor mounting. Damp location rated.

<25W LOAD



Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	25W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	2200lm
Self-Diagnostic:	No

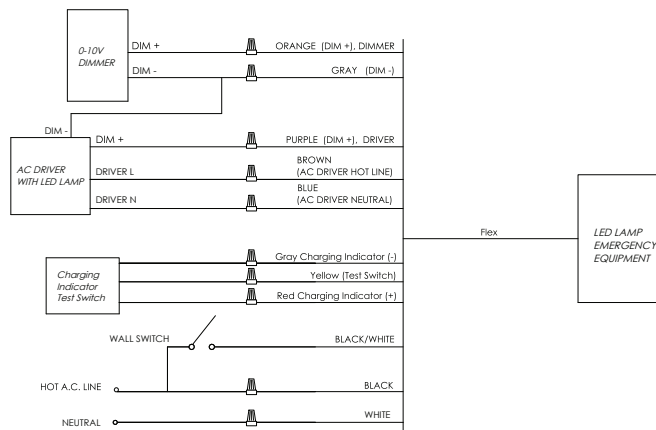
<40W LOAD



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
Self-Diagnostic:	Yes

>40W LOAD

- 0-10V dimmable driver required



SPECIFICATION (Continued)

BackPack Side Mount (-EMB-SD/FC)

Eliminates 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.

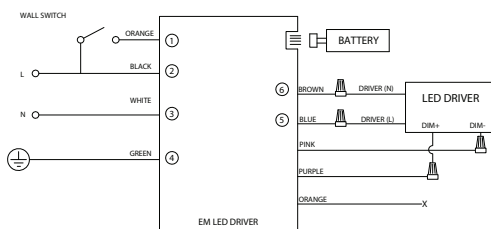


Input Voltage:	120-347 Vac (50/60 Hz)
Input Power:	7 Watts
Output Voltage:	170 V DC
Input Current:	100mA
Output Power:	18W
Surge Protection:	Line-Neutral 3000V
EM Operation:	90 minutes
Charge Time:	24 hour recharge
Ambient Temperature:	0°C to + 50°C (30°F to 122°F)
Weight:	3.7 lb
Rating:	cUL
Self-Diagnostic: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

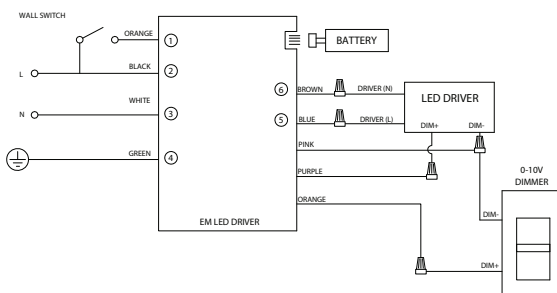
MODE	TEST SWITCH	INDICATOR STATUS	COMMENT
AC MODE 1	NOT PRESSED	ON (no flash)	EM DRIVER is CHARGING
AC MODE 2	PRESSED ONCE	2s ON THEN 2s OFF (slow flashing)	EM DRIVER is running 30s DIAGNOSTICS test
AC MODE 3	PRESSED TWICE [2s] in sequence	2s ON THEN 2s OFF (slow flashing)	EM DRIVER is running 90min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

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.



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

SPECIFICATION (Continued)

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.

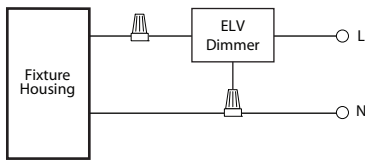
0-10V Driver 120V/277V (UE-D10):

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.

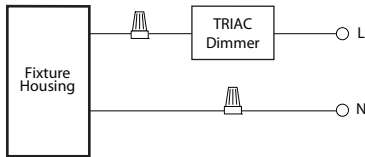
UniDim™ Driver 120V/277V (UE-DUN):

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.

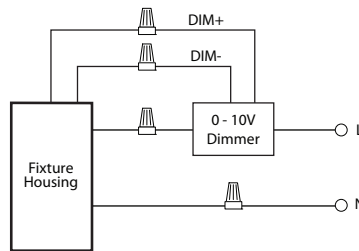
Incandescent/Phase Wiring
ELV



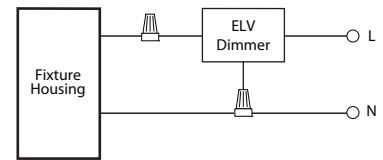
TRIAC



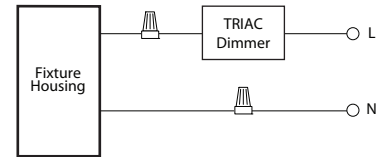
0 - 10V Wiring



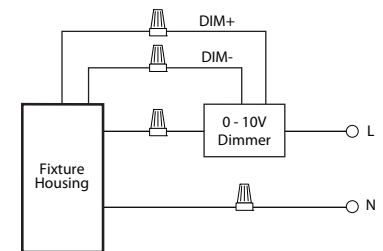
Incandescent/Phase Wiring
ELV



TRIAC



0 - 10V Wiring



PHOTOMETRY

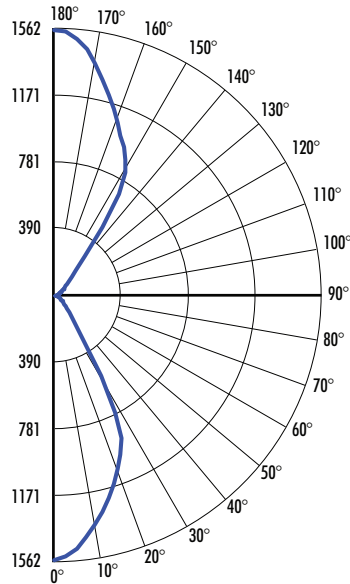
WDQJ340W-L15UE-DUN (2x1500lm, 30W, 50°, 4000K)

System Power: 29.2W
Test Date: 02/2024
Beam Angle 50%: 56.8°
Field Angle 10%: 82.3°
Color Temperature: 4141K
CRI: 92.8
Lumens Delivered: 2x1350
CBCP: 1561.63
Power Factor: 0.92

MULTIPLIERS

CCT	
2700K:	0.88
3000K:	0.92
3500K:	1.00
4000K:	1.00
Lumens	
Blank	0.73
-L13	1.00

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	17.30'	6.10
14.0'	15.14'	7.97
12.0'	12.98'	10.84
10.0'	10.81'	15.62
8.0'	8.65'	24.40
8.0'	8.65'	24.40
10.0'	10.81'	15.62
12.0'	12.98'	10.84
14.0'	15.14'	7.97
16.0'	17.30'	6.10

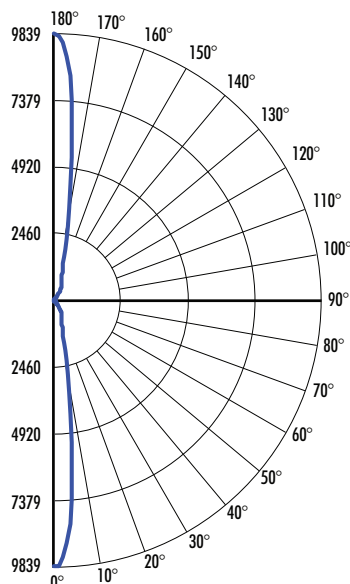
WDQJ340W-L15-BADJ10-BF10UE-DUN (2x1500lm, 30W, 15°, 4000K)

System Power: 29.28W
Test Date: 02/2024
Beam Angle 50%: 14.8°
Field Angle 10%: 33.7°
Color Temperature: 4149K
CRI: 93.2
Lumens Delivered: 2x1494
CBCP: 9836.21
Power Factor: 0.93

MULTIPLIERS

CCT	
2700K:	0.88
3000K:	0.92
3500K:	1.00
4000K:	1.00
Lumens	
Blank	0.73
-L13	1.00

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	4.16'	38.42
14.0'	3.64'	50.18
12.0'	3.12'	68.31
10.0'	2.60'	98.36
8.0'	2.08'	153.69
8.0'	2.08'	153.69
10.0'	2.60'	98.36
12.0'	3.12'	68.31
14.0'	3.64'	50.18
16.0'	4.16'	38.42

PHOTOMETRY (Continued)

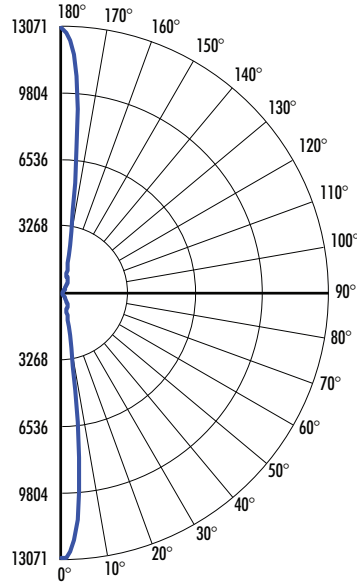
WDQJ340W-L15-BADJ20-BF20UE-DUN (2x1500lm, 30W, 20°, 4000K)

System Power: 29.26W
Test Date: 02/2024
Beam Angle 50%: 13.3°
Field Angle 10%: 26.1°
Color Temperature: 4157K
CRI: 92.4
Lumens Delivered: 2x1529
CBCP: 13071.48
Power Factor: 0.92

MULTIPLIERS

CCT	
2700K:	0.88
3000K:	0.92
3500K:	1.00
4000K:	1.00
Lumens	
Blank	0.73
-L13	1.00

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	3.73'	51.06
14.0'	3.26'	66.69
12.0'	2.80'	90.77
10.0'	2.33'	130.71
8.0'	1.87'	204.24
8.0'	1.87'	204.24
10.0'	2.33'	130.71
12.0'	2.80'	90.77
14.0'	3.26'	66.69
16.0'	3.73'	51.06

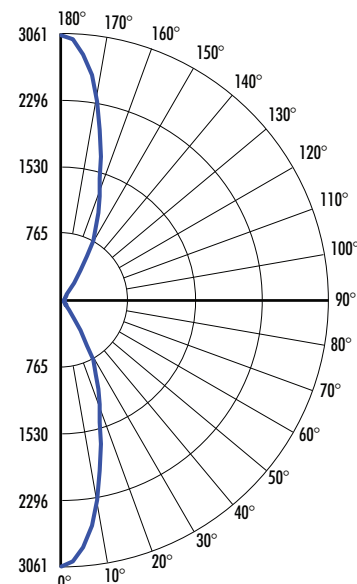
WDQJ340W-L15-BADJ45-BF45UE-DUN (2x1500lm, 30W, 45°, 4000K)

System Power: 29.24W
Test Date: 02/2024
Beam Angle 50%: 33.8°
Field Angle 10%: 68.8°
Color Temperature: 4167K
CRI: 93.1
Lumens Delivered: 2x1488
CBCP: 3060.90
Power Factor: 0.92

MULTIPLIERS

CCT	
2700K:	0.88
3000K:	0.92
3500K:	1.00
4000K:	1.00
Lumens	
Blank	0.73
-L13	1.00

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	9.72'	11.96
14.0'	8.51'	15.62
12.0'	7.29'	21.26
10.0'	6.08'	30.61
8.0'	4.86'	47.83
8.0'	4.86'	47.83
10.0'	6.08'	30.61
12.0'	7.29'	21.26
14.0'	8.51'	15.62
16.0'	9.72'	11.96

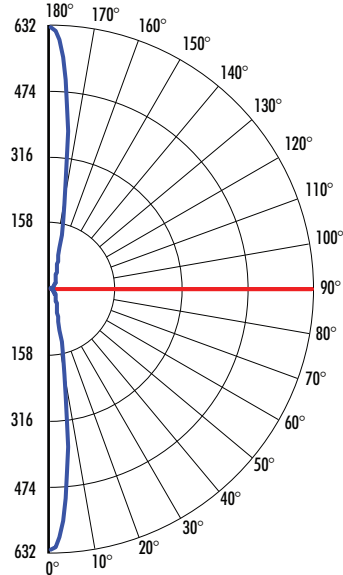
PHOTOMETRY (Continued)

WDQJ340W-L15-CBADJ10-CBF10UE-DUN (2x1500lm, 30W, 10°, 4000K)

System Power: 29.24W
 Test Date: 02/2024
 Beam Angle 50%: 14.2°
 Field Angle 10%: 29.5°
 Color Temperature: 4156K
 CRI: 93.2
 Lumens Delivered: 2x93.5
 CBCP: 630.87
 Power Factor: 0.92

MULTIPLIERS	
CCT	
2700K :	0.88
3000K :	0.92
3500K :	1.00
4000K :	1.00
Lumens	
Blank	0.73
-L13	1.00

CANDELA TABULATION



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
16.0'	3.99'	2.46
14.0'	3.49'	3.22
12.0'	2.99'	4.38
10.0'	2.49'	6.31
8.0'	1.99'	9.86
8.0'	1.99'	9.86
10.0'	2.49'	6.31
12.0'	2.99'	4.38
14.0'	3.49'	3.22
16.0'	3.99'	2.46