



# **RAZR** MODULAR

## for Multi-tier 2'x4' Wire Shelving Racks

### **BROAD WHITE SPECTRUM**

Fluence's years of experience with vertical farm growers has proven PhysioSpec™ BROAD R3a is the best spectrum choice for crop propagation and full-cycle cultivation of leafy greens, microgreens, herbs and other vegetables.

### **HIGH EFFICACY, LOW OPERATING EXPENSE**

Featuring the same broad white spectrum, the RAZR Modular System increased the efficacy to 2.6  $\mu\text{mol}/\text{J}$ , resulting in 18% lower energy consumption than previous generation of RAZRs.

### **QUICK AND EASY INSTALLATION**

With plug-and-play cabling and mounting accessories, the RAZR Modular fixture arrays can be easily assembled together and quickly installed on multi-tier 2'x4' Wire Shelving Racks, saving time and effort in setting up new grow space.

### **APPLICATIONS**

- 3-Tier or 4-Tier Wire Shelving Units (i.e. Baker's Racks)
- Crop Propagation
- Full-Cycle Cultivation of Leafy Greens, Microgreens, Culinary Herbs

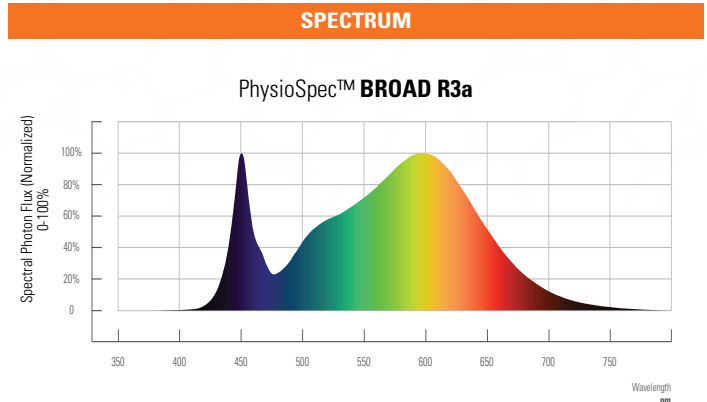


# RAZR Modular

## Fixture Arrays for 2'x4' Grow Racks



PRODUCT SPECIFICATION	
Light Distribution (Beam Angle)	120°
AC Input Voltage	120-277 V AC, 60 Hz
Dimming	Source Signal Driver, 0/1-10 V, OFF/ 10-100%
Power Factor	> 0.92
THD	< 20%
Thermal Management	Passive
Max. Ambient Temperature	104°F / 40°C (95°F / 35°C @ 120V AC)
Lifetime L90	> 50,000 hrs
Warranty	5 Year Limited
IP Rating	IP66
Certifications	ETL, cETL, CE, Wet Location
Industry Standards	UL1598, UL8750, UL8800, IEC 60598-1
UL 8750 Output Voltage Rating	Class 2
IEC 61347-1 Electrical Insulation	Class I



### RAZR MODULAR RACK FIXTURE ARRAYS

Fixture Array SKUs	Suitable for Wire Shelving Rack	Array PPF (400-700nm)	# of Fixtures per Array	Fixture Type	@ 120 V AC		@ 277 V AC	
					Array AC Wattage	Array Efficacy	Array AC Wattage	Array Efficacy
RM-48-S-BW3-3S4-1R	4-Tier, 2'x4'	816 µmol/s	4 Fixtures	3-Bar, 2'x4'	321 W	2.5 µmol/J	315 W	2.6 µmol/J
RM-48-S-BW3-3S4-2R	4-Tier, 2'x4'	816 µmol/s	4 Fixtures	3-Bar, 2'x4'				
RM-48-S-BW3-3S3-1R	3-Tier, 2'x4'	612 µmol/s	3 Fixtures	3-Bar, 2'x4'	242 W	2.5 µmol/J	238 W	2.6 µmol/J

### RACK FIXTURE ARRAY NOMINAL ELECTRICAL AC INPUT

Fixture Array SKUs	AC VOLTAGE	120 V	208 V	230 V	277 V
RM-48-S-BW3-3S4-1R/2R	AC Current	2.72 A	1.57 A	1.44 A	1.23 A
	AC Power	321 W	316 W	316 W	315 W
RM-48-S-BW3-3S3-1R	AC Current	2.05 A	1.21 A	1.10 A	0.97 A
	AC Power	242 W	239 W	238 W	238 W

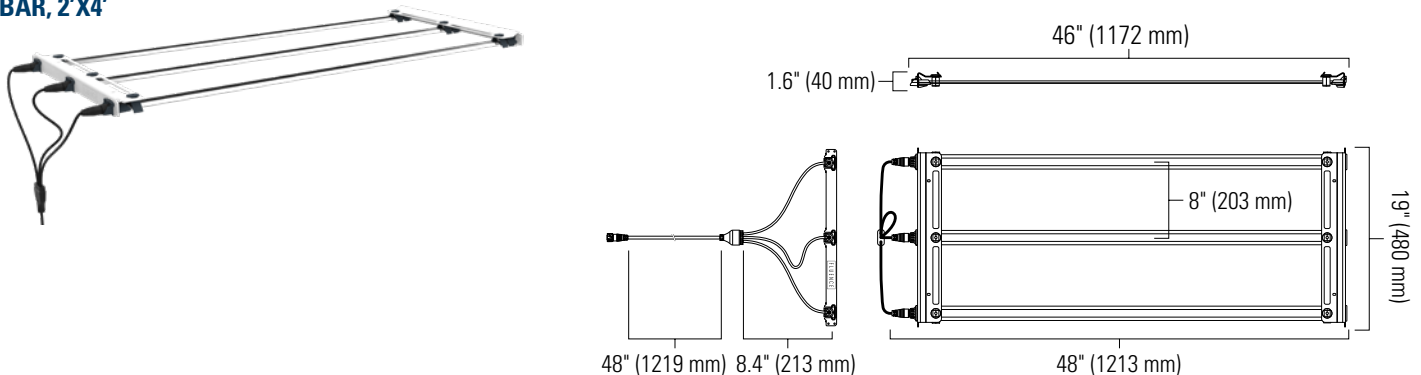
### RAZR MODULAR RACK FIXTURE SPECIFICATION

Fixture Type	Light Bar Spacing	Number of Light Bars	Fixture PPF (400-700nm)	Fixture DC Power	Fixture Mounting Height	Fixture Dimensions*	Fixture Weight
<b>3-Bar, 2'x4'</b>	8" [203 mm]	3 Light Bars	204 µmol/s	73 W DC	≥ 8" 203 mm	48" x 19" x 1.6" 1213 x 480 x 40 mm	2.9 lb 1.3 kg

\* with DC Cabling

### FIXTURE DIMENSIONS

#### 3-BAR, 2'X4'



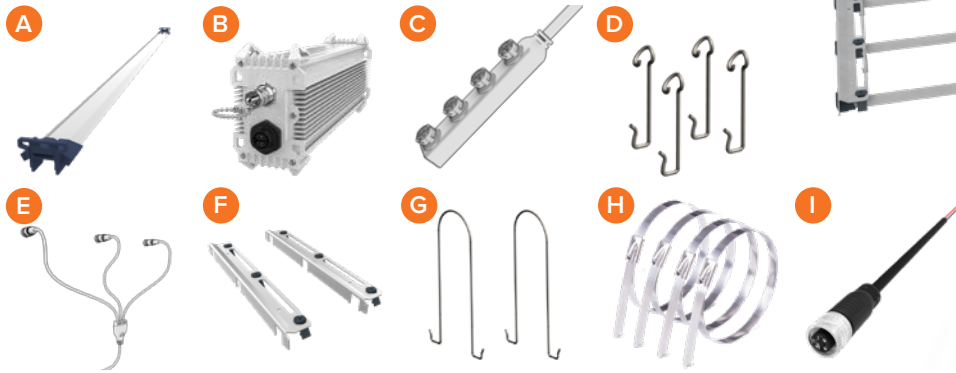
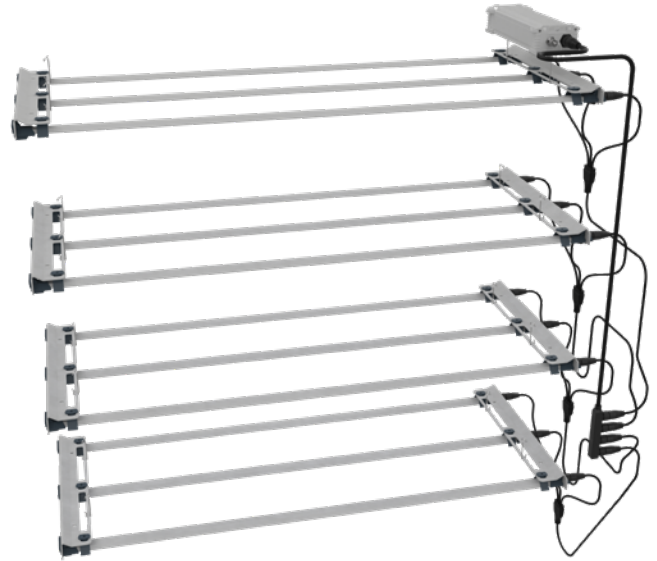
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## FIXTURE ARRAY PART LIST

SKU: RM-48-S-BW3-3S4-1R/ RM-48-S-BW3-3S4-2R

### 4-Tier, 3-Bar Fixture Array

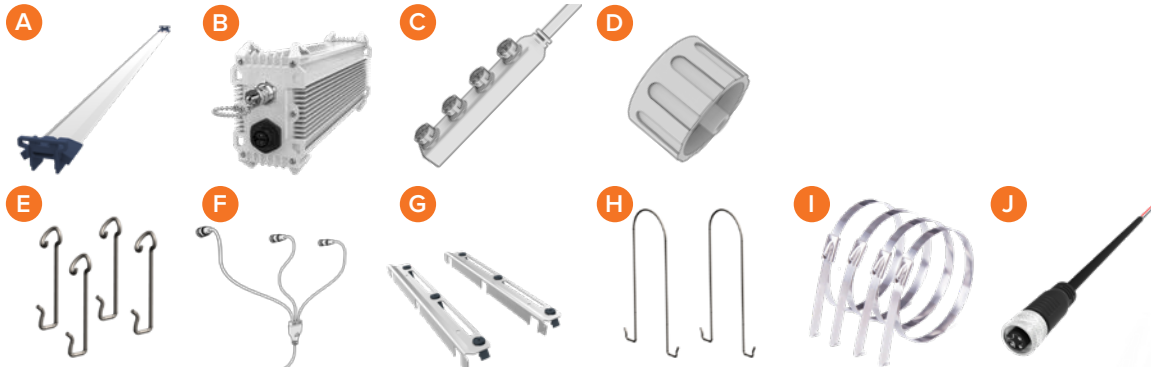
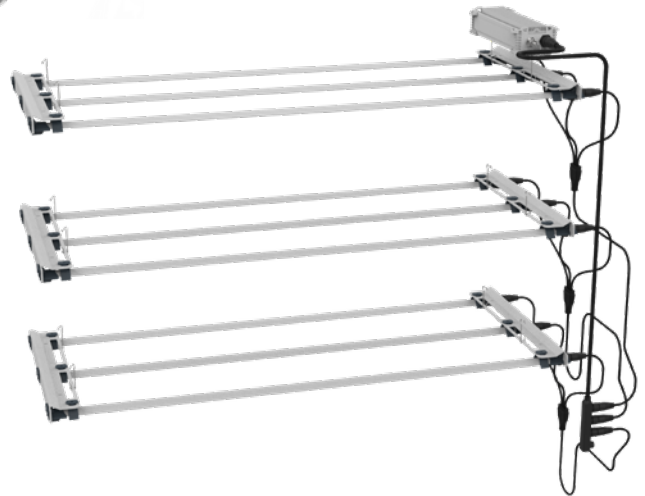
- A.** 24w/48 Light Bar (x12)
- B.** Power Supply 292 W DC, 120-277 V AC (x1)
- C.** DC Manifold Cable - 4-Port, 4-FT Trunk (x1)
- D.** Fixture Wire Hangers, Short - 2", for Baker's Rack (x16)
- E.** DC Splitter Cable - 3-Bar, Straight, 4-FT Trunk (x4)
- F.** 2-FT Fixture Frame, 3-Bar, 8" Bar Spacing (x8)
- G.** Pipe Hangers (for Power Supply) (x2)
- H.** Stainless Steel Zip Tie (for Power Supply) (x4)
- I.** 11-Inch (0.28 m) Dimming Signal Cable, Pigtail, M12 Connector (x1)



SKU: RM-48-S-BW3-3S3-1R

### 3-Tier, 3-Bar Fixture Array

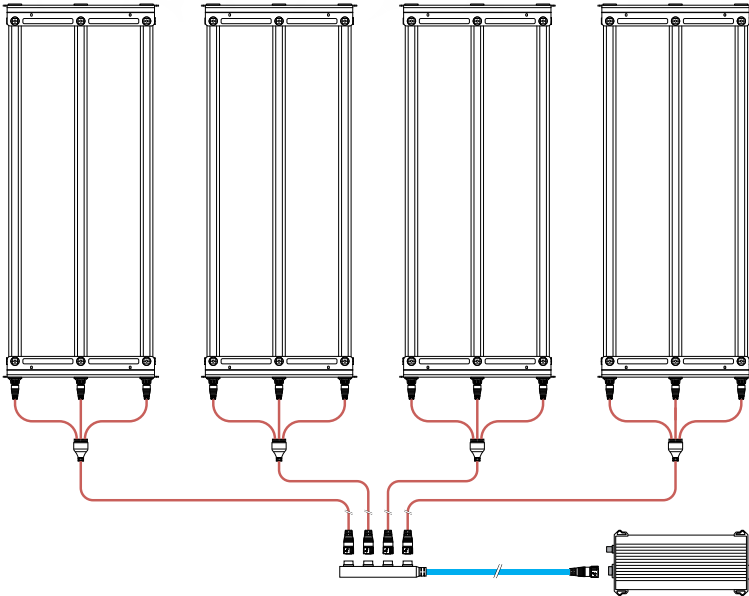
- A.** 24w/48 Light Bar (x9)
- B.** Power Supply 292 W DC, 120-277 V AC (x1)
- C.** DC Manifold Cable - 4-Port, 4-FT Trunk (x1)
- D.** Dust Cap (for Unused DC Manifold Cable Ports) (x1)
- E.** Fixture Wire Hangers, Short - 2", for Baker's Rack (x12)
- F.** DC Splitter Cable - 3-Bar, Straight, 4-FT Trunk (x3)
- G.** 2-FT Fixture Frame, 3-Bar, 8" Bar Spacing (x6)
- H.** Pipe Hangers (for Power Supply) (x2)
- I.** Stainless Steel Zip Tie (for Power Supply) (x4)
- J.** 11-Inch (0.28 m) Dimming Signal Cable, Pigtail, M12 Connector (x1)



## FIXTURE ARRAY WIRING DIAGRAMS

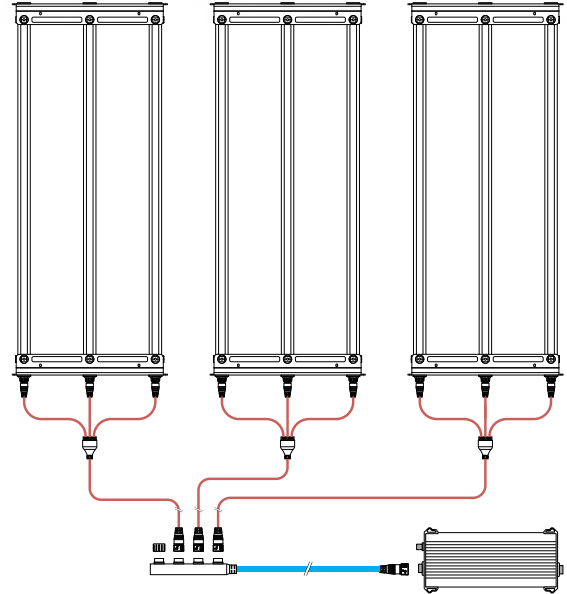
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### 4-Tier, 3-Bar Fixture Array



SKU: RM-48-S-BW3-3S3-1R

### 3-Tier, 3-Bar Fixture Array



## AC POWER CABLES *(Purchase Separately, Not included RM-48-S-BW3-3S4-1R or RM-48-S-BW3-3S3-1R)*

AC Power Cable - <b>AMERICAS</b> (Power Supply to AC Line)	Quantity per Power Supply	Regional Commercial Code	Ordering PN 12NC Single Pack (S)	Ordering PN 12NC Bulk Pack (B)	Bulk Pack Carton Quantity
6-FT (1.83 m) AC Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC	1 Pc	CAA-XXU3P9FN5P1.8	9124 017 01611	9124 016 88454	10 Pcs
6-FT (1.83 m) AC Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC	1 Pc	CAA-XXU3P9FN6P1.8	9124 017 01613	9124 016 88456	10 Pcs
6-FT (1.83 m) AC Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC	1 Pc	CAA-XXU3P9FL7P1.8	9124 017 01625	9124 016 55898	10 Pcs
15-FT (4.57 m) AC Cable, NEMA 5-15P Plug, M19 Push Lock, Max 125 V AC	1 Pc	CAA-XXU3P9FN5P4.6	9124 017 01612	9124 016 88455	5 Pcs
15-FT (4.57 m) AC Cable, NEMA 6-15P Plug, M19 Push Lock, Max 250 V AC	1 Pc	CAA-XXU3P9FN6P4.6	9124 017 01614	9124 016 88457	5 Pcs
15-FT (4.57 m) AC Cable, NEMA L7-15P Plug, M19 Push Lock, Max 277 V AC	1 Pc	CAA-XXU3P9FL7P4.6	9124 017 01626	9124 016 55899	5 Pcs