Gavita® **RS** 1900e LED

FIXTURE PART NO: HGC906410

The Gavita® RS 1900e produces 1900 μmol s-^{1} PAR and an impressively efficient 3.0 μmol/j. The RS 1900e delivers broad white light with an enhanced blue spectrum, which some studies show may intensify secondary metabolites, such as terpenes and cannabinoids. This powerful, full-spectrum light source is intended for full-term plant growth - from the vegetative to the bloom and finishing stages which require more light. Using the Gavita Master EL3 Controller *(sold separately)*, the fixture is dimmable to 10%. The RS 1900e is built with high-quality components, including a Gavita broad range driver and custom made Gavita diodes, that deliver both performance and lifespan worthy of the Gavita brand name.

FEATURES:

- Broad white light with an enhanced blue spectrum, which some studies show may intensify secondary metabolites, such as terpenes and cannabinoids.
- Dimmable to 10% with the Gavita EL3 Master controller *(sold separately)*
- Light weight, foldable, 6 rail fixture based on the Gavita Pro RS 2400e LED platform for balanced output and efficiency

- Premium Gavita diodes
- Embedded adapter for maximum controllability with the Gavita EL3 Master controller *(sold separately)*
- IP66 wet rating and ANSI/CAN/UL 8800 compliant
- 5 year limited warranty**
- Broad Range Gavita driver to accommodate a larger voltage range of 208 - 480 V

QUICK SPECIFICATIONS:

- Model No. HGC906410
- Volt: 208 - 480 V
- Frequency: 50/60 Hz
- ETL Listed
- Watts: 650 W

- Current at 208 V: 3.12 A
- Current at 480 V: 1.35 A
- Max Ambient Temp: 40° C
- Dim: 44.8 in x 43.25 in x 3.3 in
- Weight: 29.8 lb

Color Spectrum

SQD(µmol/s/nm) vs Wave length(nm)
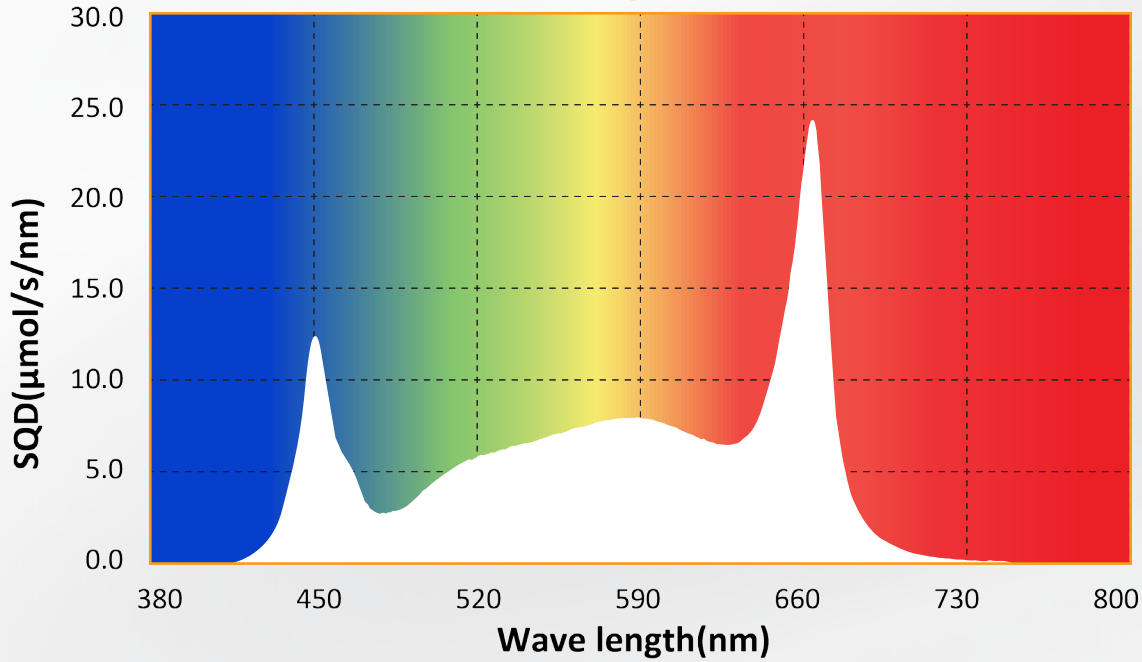
Uniformity (PPFD Map)

The luminaire was tested with the long axis of the lumnaire oriented along the y-axis of the plot. Tested at 277 V.

@ 12inch Measuring Height

4 Feet Y-axis / 4 Feet X-axis

275.7	272.3	445.8	589.5	673.6	606.0	473.8	301.4	323.2
279.5	419.8	722.5	1128.5	1324.3	1150.3	758.7	453.3	312.8
279.5	698.8	751.6	1048.9	1168.4	1067.8	788.7	752.9	476.6
551.7	887.6	1021.8	1177.7	1280.7	1199.7	1071.6	1138.5	611.4
625.8	1041.7	1236.5	1702.8	1304.7	1725.8	1277.0	1319.3	684.0
563.7	905.7	1042.7	1198.1	1300.1	1223.3	1105.8	1176.7	626.6
563.7	720.8	775.6	1072.5	1198.5	1104.1	815.3	784.0	495.3
290.2	436.3	748.8	1162.2	1369.3	1198.7	792.8	472.3	327.7
294.0	290.5	468.4	619.0	706.3	639.5	500.7	322.2	343.7

@ 24inch Measuring Height

4 Feet Y-axis / 4 Feet X-axis

187.9	259.7	340.9	413.7	438.2	416.6	347.0	268.6	197.2
256.1	292.3	403.5	509.0	558.2	510.9	410.9	302.3	268.7
256.1	398.6	478.4	630.0	700.4	632.3	487.4	412.1	348.3
400.8	497.6	622.9	718.2	805.5	724.8	634.4	513.8	418.6
426.6	546.2	691.8	805.2	864.4	809.0	701.1	558.2	440.6
407.3	504.8	629.1	724.8	813.9	730.6	645.5	523.6	426.4
407.3	406.5	486.7	638.6	711.0	645.0	497.0	422.4	359.4
263.1	299.4	411.6	516.8	568.7	524.8	422.2	310.4	277.7
193.9	267.4	348.6	423.0	449.4	429.3	358.8	277.9	203.8

@ 36inch Measuring Height

4 Feet Y-axis / 4 Feet X-axis

152.3	192.2	228.9	256.9	268.9	257.4	230.7	195.5	156.8
190.7	243.0	296.2	339.7	355.7	340.2	298.8	247.5	195.9
190.7	294.0	366.3	424.9	445.4	425.5	371.0	299.7	231.9
251.0	335.0	421.6	491.2	520.0	494.4	427.1	341.7	258.0
263.4	351.4	445.1	519.7	548.8	520.7	448.2	356.1	268.6
253.8	337.7	424.5	494.4	522.1	497.3	431.0	345.4	261.5
253.8	297.9	371.3	428.6	453.2	430.5	376.2	304.8	236.9
194.3	247.2	300.8	344.1	361.1	346.5	304.8	252.4	200.6
156.1	195.9	232.4	260.5	273.1	262.9	236.8	200.5	160.9

@ 48inch Measuring Height

4 Feet Y-axis / 4 Feet X-axis

132.0	154.0	173.8	187.5	193.2	187.7	174.4	155.7	134.4
153.2	182.2	206.2	224.3	229.8	224.1	207.3	184.4	156.0
153.2	205.0	235.3	257.4	263.9	257.5	237.4	207.8	175.0
184.7	221.9	255.8	279.5	288.8	280.9	258.4	225.3	188.4
190.8	229.3	263.8	289.1	298.1	289.2	265.0	231.3	193.4
186.1	223.4	257.0	281.0	289.9	282.3	259.8	227.1	189.9
186.1	206.9	237.4	258.9	266.6	259.6	239.3	210.5	178.1
155.3	185.0	208.6	226.7	234.1	227.5	210.6	187.2	158.7
134.3	156.4	176.2	190.1	196.1	191.1	177.9	158.7	137.1

Photometric Characteristics

Dimming Value %	Dimming Value% PPF (µmol/s)	PPE (µmol/s)
100	1952	2.955
90	1748	2.983
80	1557	3.006
70	1355	3.026
60	1161	3.045
50	966.5	3.056
40	759.3	3.075
30	547.1	3.105
20	344.5	2.972
10	142.6	2.695

Dimming Curve vs. Efficiency
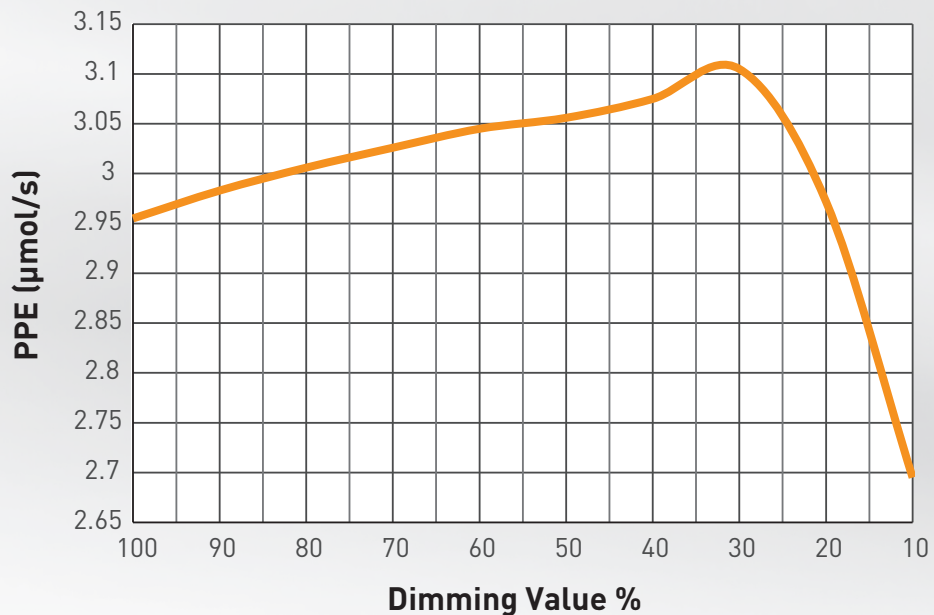
Gavita® **RS** 1900e LED Summary

Input Voltage +/- 10%:	208 - 480 V
Input Watts +/- 7%:	650 W
Current:	3.12 - 1.35 A
Heat Load:	2,184 Btu/hr
Frequency:	50/60 Hz
Power Factor:	> 0.95
Rating:	IP66
Dimensions:	43.25 x 44.8 x 3.3 in / 109.9 x 113.8 x 8.4 cm
Certifications:	Conforms to ANSI/UL STD 1598. Certified to CSA STD C22.2 No. 250.0. Conforms to ANSI/CAN/UL STD 8800
Power inlet:	Wieland RST 16i5 connector
External dim:	Gavita EL3 Master Controller
External control signal:	RJ connector (8P6C)
Warranty:	5 Year limited warranty**

**When purchased from an authorized Hawthorne dealer, this product is covered by a LIMITED WARRANTY, available at hawthornegc.com/warranties. You can also obtain the Terms of Sale and Limited Warranty by calling Hawthorne toll-free at: 1-888-478-6544 or writing Hawthorne at: Hawthorne Hydroponics LLC, 800 Port Washington Blvd. Port Washington, NY 11050, Attn: Customer Service.

INCLUDED IN THE BOX:
• Gavita® RS 1900e LED 208-480 V
• Wire Hangers
• 10 ft RJ45 dimming cable

ACCESSORIES *(Sold separately)*:
• HGC906174 - Gavita EL3 Master controller
• HGC906708 - Gavita Daisy Chain T-Splitter
• HGC906743 - Gavita Rail System Hanging Bracket
• See website for communication cables options

POWER CORDS *(Sold separately)*:
• HGC906148 - Gavita 8 ft Power Cord 208-240 Volt for LED
• HGC906458 - Gavita 8 ft Power Cord 277-400 Volt for Gavita LED. Can be used up to at least 480Vac
• HGC906182 - Gavita 8 ft Power Cord 277 Volt Twist Lock Plug

CONTACT US FOR A FREE LIGHTING LAYOUT: (Tel) 888.478.6544

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