500W STADIUMPRO III SERIES | LED RGB SPORT LIGHT

PRODUCT DESCRIPTION

The StadiumPro Series reaches new heights with the Series III! This Light is RGB capable allowing you access to a whole lot of customization options, it offers versatile mounting options and advanced optics. The Stadium Pro IV is UL Listed and, solidifying its status as the Pinnacle of sports lighting!

UL CERTIFIED
SAFETY US·CA
E495046

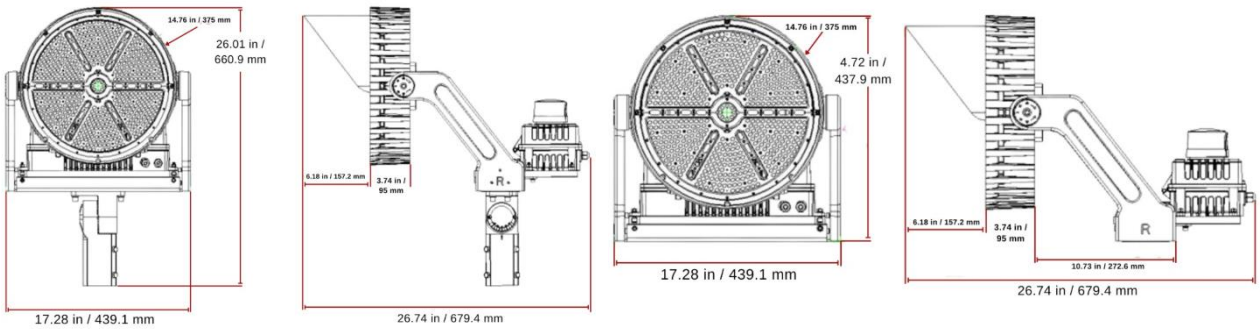
PART #: RGL-STADIUMPRO-3-500W-RGB

PRODUCT FEATURES & COMMON USE APPLICATIONS

- UL cUL certificate
- Wattage adjustable
- Input voltage 120-277 Vac
- No UV or IR in the beam
- Easy to install and operate
- Energy saving, long lifespan
- Instant start, NO flickering, NO humming
- Green and eco-friendly without mercury
- Output constant current lever can be
- adjusted through output cable with 0-10V.

- Gymnasium;
- Square plaza;
- Shipyard, Airport, wharf;
- High mast and Contour lighting, etc.

PRODUCT DIMENSIONS



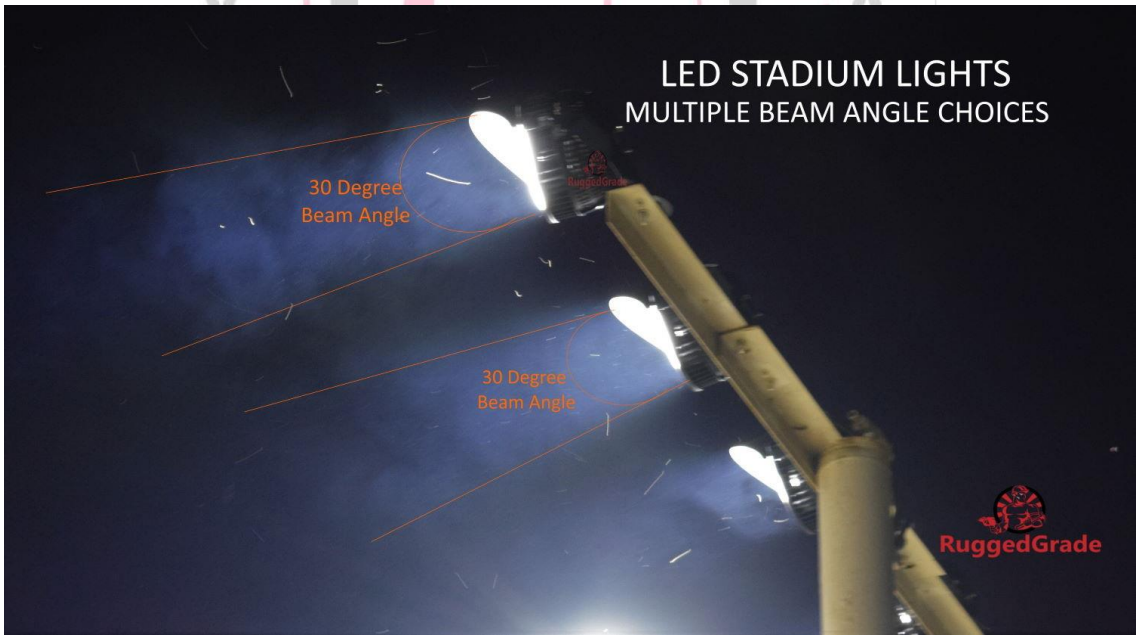
500W STADIUMPRO III SERIES | LED RGB SPORT LIGHT

RuggedGrade

PRODUCT TECHNICAL SPECIFICATIONS

OPTICAL	Input Power (Tolerance : ±10%)	500W (167W(R)+167W(G)+167W(B)			
	Color Temperature	R	G	B	RGB
	Dominant Wavelength/CCT	617.6 nm	548.9 nm	454.3 nm	470.3 nm
	Lumen (Tolerance : ±10%)	3437 lm	22431 lm	1867 lm	26628 lm
	Efficacy (Tolerance : ±3%)	19.3 lm/w	127.1 lm/w	10.7 lm/w	51.5 lm/w
	CRI	54.2	24.6	-65.0	89.7
	Color Consistency	＜6 Steps (or ＜6 SDCM)			
	BUG	B5-U0-G5			
	Distribution Pattern	NEMA:4			
	Beam Angle (50%) (Tolerance : ±15%)	30°			
ELECTRICAL	Input Voltage and Frequency	120-277 VAC, 50/60Hz			
	PF (Tolerance : -3%)	≥0.9			
	THD (Tolerance : +5%)	≤20%			
	Flicker Percent	<5%			
	Driver Brand	HBE			
	Driver Model	uPowerTek Lighting Driver			
	Driver Surge protection	HB-240CE-60BH*2PCS			
	Dimming	DMX512 dimming standard			
	Sensor Type	Daylight Sensor, Integral Sensor Receptacle			
	Optional Accessory	Sensor Receptacle,Photosensor ,Sensor Receptacle,Short Cap, Surge-protective Device			
MATERIALS	LED Brand	OSRAM			
	LED Type	SMD3030			
	LED QTY	168 PCS（R）+168 PCS（G）+168 PCS（B）			
	Housing	Die-cast aluminum			
	Housing Color	Black,Bronze or Customized			
	Waterproof Rating	WET（IP65）			
OTHERS	Operating Temperature	-20℃ TO 45℃			
	Storage Temperature	-20℃ TO 80℃			
	Operating Humidity	20％ - 90％ RH			
	Storage Humidity	10％ - 95％ RH			
	Warranty	5 years			
	EPA	1.9 ft²			

PRODUCT IMAGES & ACTUAL INSTALLATIONS



PHOTOMETRICS FOR RGB

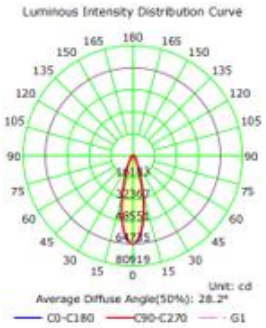
500W-RGB

Luminaire Property

Luminaire Manufacturer:
Voltage: 277.6 V
Power: 517.20 W
Current: 1.994 A
Power Factor: 0.934

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 26628.5 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 64730.86 cd
Pos of Max. Intensity: H180 V1
Longitudinal Classification: Very Short
Measurement Flux: 26628.5 lm
Downward Ratio: 99%
Luminaire Efficacy Rating (LER): 51.54
Max. Intensity: 64735.4 cd



Lightsource Test Report (1/2)

Product Infomation

Product Number: 2733

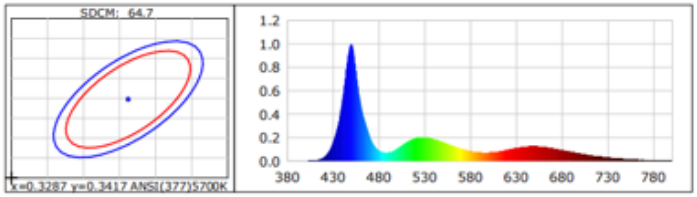
CIE Colorimetric Parameters

Chromaticity coordinates: x=0.2289 y=0.1979 u(u')=0.1862 v=0.2415 v'=0.3622
CCT: Tc=100000K (duv=-0.02511) Color Ratio: R=0.123 G=0.781 B=0.097
Peak Wavelength: 449.8nm Half Bandwidth: 20.2nm
Dominant Wavelength: 470.5nm Color Purity: 0.496
CRI: Ra= 89.7 TM30: Rf= 74, Rg= 109

R1 =96	R2 =94	R3 =78	R4 =84	R5 =98	R6 =88	R7 =95	R8 =85
R9 =31	R10=81	R11=80	R12=62	R13=95	R14=88	R15=81	

Color Quality Scale: Qa= 79.2, Qf= 68.0, Qp=100.1, Qg=113.3

Q1 =90	Q2 =87	Q3 =68	Q4 =61	Q5 =82	Q6 =92	Q7 =95	Q8 =89
Q9 =70	Q10=68	Q11=70	Q12=83	Q13=97	Q14=96	Q15=96	



Photometric Parameters

Luminous Flux: 15973.80 lm Efficiency: 29.91 lm/W Radiant Power: 84.336 W
EEI: 0.46 Energy Efficiency Class: B (EU 874-2012)
PAR: 80.976 W PPF: 349.926 umol/s R/B: 0.4
PF1:160.742 umol/s(400~500nm) PF2:101.616 umol/s(500~600nm)
PF3:87.561 umol/s(600~700nm) PFfr:21.260 umol/s(700~800nm) PPE:0.655 umol/s/w PF:371.242 umol/s

Electric Parameters

Voltage: 120.60V Current: 4.4900A Power: 534.10W
Power Factor: 0.9860 Frequency: 0.00Hz

PHOTOMETRICS FOR RED

500W-RGB-R

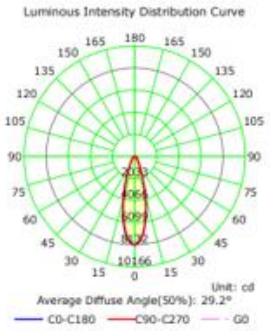
Luminaire Property

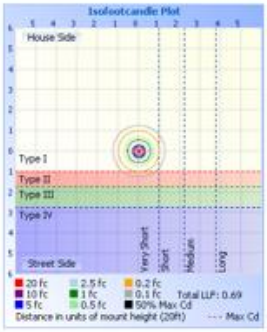
Luminaire Manufacturer:
Voltage: 277.7 V
Current: 0.854 A
Power: 178.69 W
Power Factor: 0.754

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 3437.2 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 8132.88 cd
Pos of Max. Intensity: H0 V0

Longitudinal Classification: Very Short
Measurement Flux: 3437.2 lm
Downward Ratio: 99%
Luminaire Efficacy Rating (LER): 19.29
Max. Intensity: 8132.88 cd





Lightsource Test Report (1/2)

Product Infomation

Product Number: 2730

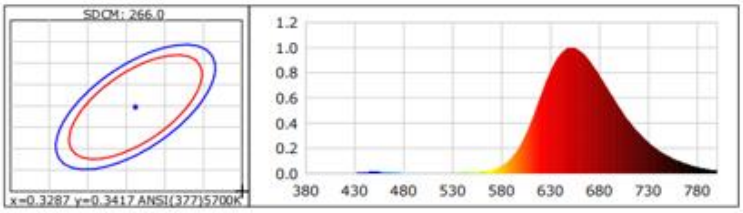
CIE Colorimetric Parameters

Chromaticity coordinates: x=0.6722 y=0.3154 u(u')=0.4942 v=0.3478 v'=0.5218
CCT: Tc=1000K (duv=-0.04656) Color Ratio: R=0.817 G=0.182 B=0.001
Peak Wavelength: 651.6nm Half Bandwidth: 87.7nm
Dominant Wavelength: 617.1nm Color Purity: 0.963
CRI: Ra= 54.2 TM30: Rf= 16, Rg= -1

R1 =41	R2 =82	R3 =67	R4 =26	R5 =46	R6 =88	R7 =56	R8 =27
R9 =-41	R10=79	R11=25	R12=80	R13=50	R14=82	R15=35	

Color Quality Scale: Qa= -1.$, Qf= -1.$, Qp= -1.$, Qg= -1.$

Q1 =9	Q2 =12	Q3 =17	Q4 =13	Q5 =11	Q6 =11	Q7 =5	Q8 =0
Q9 =0	Q10=0	Q11=0	Q12=0	Q13=0	Q14=0	Q15=0	



Photometric Parameters

Luminous Flux: 1764.39 lm Efficiency: 9.96 lm/W Radiant Power: 17.998 W
EEI: 1.37 Energy Efficiency Class: E (EU 874-2012)
PAR: 14.761 W PPF: 80.158 umol/s R/B: 223.7
PF1:0.238 umol/s(400~500nm) PF2:3.185 umol/s(500~600nm)
PF3:76.735 umol/s(600~700nm) PFfr:20.456 umol/s(700~800nm) PPE:0.453 umol/s/w PF:100.619 umol/s

Electric Parameters

Voltage: 122.10V Current: 1.4630A Power: 177.10W
Power Factor: 0.9920 Frequency: 59.99Hz

PHOTOMETRICS FOR GREEN

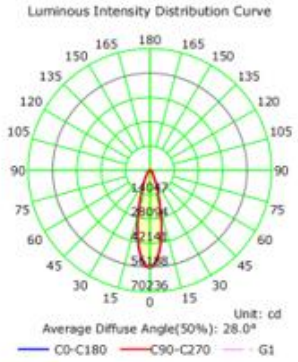
500W-RGB-G

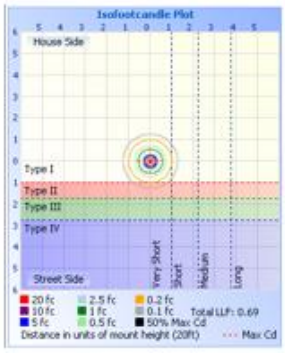
Luminaire Property

Luminaire Manufacturer:
Voltage: 277.8 V
Power: 176.50 W
Current: 0.847 A
Power Factor: 0.750

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 22431.0 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 56147.91 cd
Pos of Max. Intensity: H180 V1
Longitudinal Classification: Very Short
Measurement Flux: 22431 lm
Downward Ratio: 99%
Luminaire Efficacy Rating (LER): 127.14
Max. Intensity: 56188.87 cd





Lightsource Test Report (1/2)

Product Infomation

Product Number: 2731

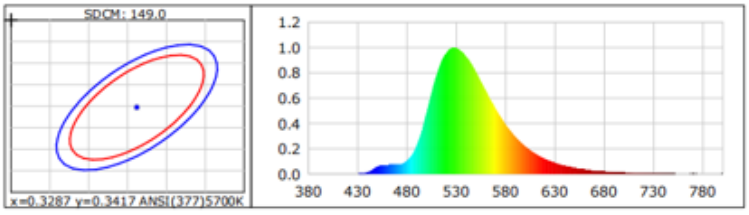
CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3040 y=0.6000 u(u')=0.1268 v=0.3753 v'=0.5630
CCT: Tc=6000K (duv=0.09797) Color Ratio: R=0.041 G=0.937 B=0.023
Peak Wavelength: 526.4nm Half Bandwidth: 70.7nm
Dominant Wavelength: 548.8nm Color Purity: 0.727
CRI: Ra= 24.6 TM30: Rf= 37, Rg= 42

R1 =8	R2 =39	R3 =51	R4 =-5	R5 =19	R6 =35	R7 =49	R8 =1
R9 =-241	R10=-14	R11=-22	R12=8	R13=11	R14=75	R15=-6	

Color Quality Scale: Qa= 19.0, Qf= 23.0, Qp= 6.6, Qg= 30.2

Q1 =25	Q2 =40	Q3 =66	Q4 =70	Q5 =51	Q6 =21	Q7 =4	Q8 =4
Q9 =9	Q10=2	Q11=17	Q12=24	Q13=30	Q14=5	Q15=17	



Photometric Parameters

Luminous Flux: 12917.32 lm Efficiency: 72.81 lm/W Radiant Power: 26.435 W
EEI: 0.19 Energy Efficiency Class: A (EU 874-2012)
PAR: 26.341 W PPF: 119.608 umol/s R/B: 0.8
PF1:10.351 umol/s(400~500nm) PF2:97.827 umol/s(500~600nm)
PF3:11.430 umol/s(600~700nm) PFfr:0.585 umol/s(700~800nm) PPE:0.674 umol/s/w PF:120.199 umol/s

Electric Parameters

Voltage: 122.10V Current: 1.4650A Power: 177.40W
Power Factor: 0.9920 Frequency: 0.00Hz

PHOTOMETRICS FOR BLUE

500W-RGB-B

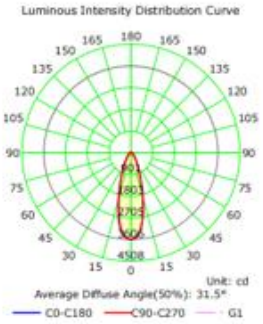
Luminaire Property

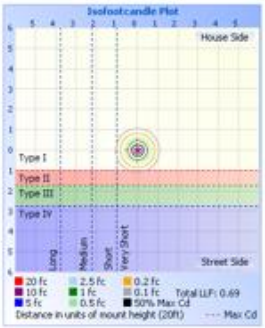
Luminaire Manufacturer:
Voltage: 277.8 V
Current: 0.843 A
Power: 175.80 W
Power Factor: 0.750

Photometric Results

IES Classification: Type I
Total Rated Lamp Lumens: 1866.5 lm
Efficiency: 100%
Upward Ratio: 1%
Central Intensity: 3599.4 cd
Pos of Max. Intensity: H337.5 V1

Longitudinal Classification: Very Short
Measurement Flux: 1866.5 lm
Downward Ratio: 99%
Luminaire Efficacy Rating (LER): 10.67
Max. Intensity: 3606.79 cd





Lightsource Test Report (1/2)

Product Infomation

Product Number: 2732

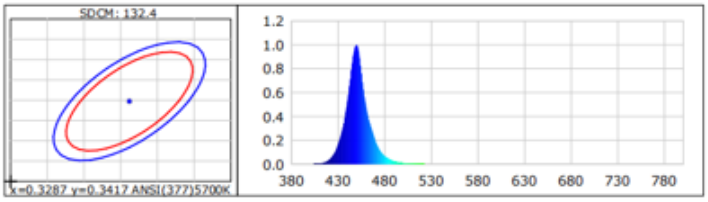
CIE Colorimetric Parameters

Chromaticity coordinates: x=0.1534 y=0.0250 u(u')=0.2050 v=0.0501 v'=0.0751
CCT: Tc=100000K (duv=-0.21723) Color Ratio: R=0.004 G=0.068 B=0.928
Peak Wavelength: 449.7nm Half Bandwidth: 20.0nm
Dominant Wavelength: 454.4nm Color Purity: 0.991
CRI: Ra=-65.0 TM30: Rf= 0, Rg= 62

R1 =-18	R2 =-61	R3 =-165	R4 =-98	R5 =-3	R6 =-71	R7 =-62	R8 =-43
R9 =-280	R10=-269	R11=-126	R12=-145	R13=-41	R14=-40	R15=1	

Color Quality Scale: Qa= 0.0, Qf= 0.0, Qp= 0.0, Qg= 7.1

Q1 =0	Q2 =0	Q3 =0	Q4 =15	Q5 =0	Q6 =0	Q7 =0	Q8 =0
Q9 =0	Q10=0	Q11=0	Q12=0	Q13=0	Q14=0	Q15=0	



Photometric Parameters

Luminous Flux: 1354.99 lm Efficiency: 7.70 lm/W Radiant Power: 40.500 W
EEI: 1.77 Energy Efficiency Class: E (EU 874-2012)
PAR: 40.443 W PPF: 152.606 umol/s R/B: 0.0
PF1:151.463 umol/s(400~500nm) PF2:0.926 umol/s(500~600nm)
PF3:0.215 umol/s(600~700nm) PFfr:0.346 umol/s(700~800nm) PPE:0.867 umol/s/w PF:153.011 umol/s

Electric Parameters

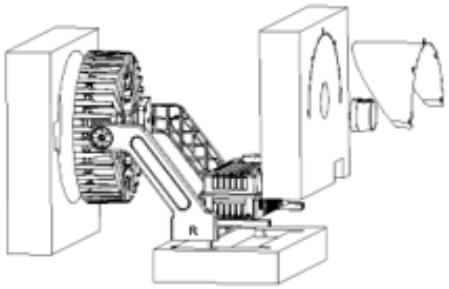
Voltage: 122.00V Current: 1.4550A Power: 176.00W
Power Factor: 0.9920 Frequency: 59.99Hz

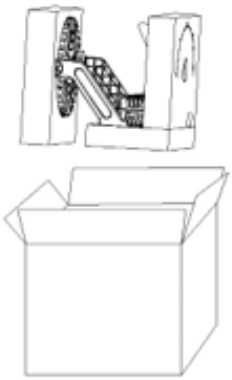
PRODUCT PACKAGING

Lamp Net Weight: 14.9 KG / PC

	Size	Qty / Carton	Gross Weight / Carton
Outer box	550*510*510 mm	1 PC	18.6 KG

Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%.





*Tolerance of Carton Size: ±15 MM, Tolerance of Weight: ±10%.

PRODUCT WARNINGS

- Please turn off power before install or change assembly parts.
- The input voltage and lamps should be matched, after connecting the power line.
- Please make sure the wiring section is insulated.
- Professionals must install and disassemble the lamps.
- Surge is the number 1 cause of LED light failure. Outdoor lights must have surge at fixture, pole, and breaker.
- Surge is the number 1 cause of LED light failure. Indoor lights must have surge at fixture and breaker.

PRODUCT TROUBLESHOOTING

Issue	Check points
Light Flickers	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. Lights with photocells can have photocell tag from ambient light or light reflecting at the sensor. Simply cover the photocell completely and see if flickering continues while the photocell is covered. Call Tech Support for help if none of the above solves the issue.
Light does not work at all.	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. If input voltage is not in the voltage range of the fixture, you will need to find the source of your input voltage issue. Call Tech Support for help if none of the above solves the issue.

For more technical information, install questions, troubleshooting help or warranty claims, we have a dedicated US Tech and Customer Support Team to help solve any issues you have and can be reached by email or phone. If you need help with any of our products, we are here for you so that you are never in the dark!