

LuxEOS Beam 80 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



LuxEOS BEAM 80 RGBW (2700K) 3° 3x60°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

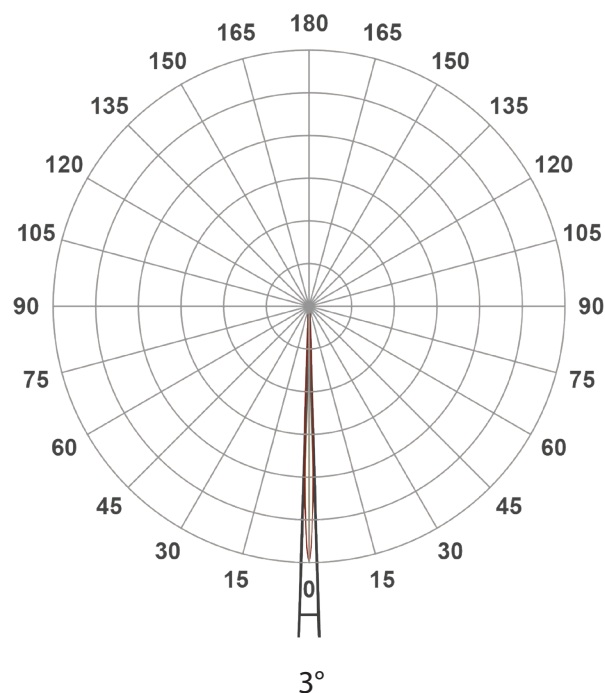
Date
Nov 2020

Dimensions
443mm (H) x 420mm (W) x 230mm (D) (including yoke)

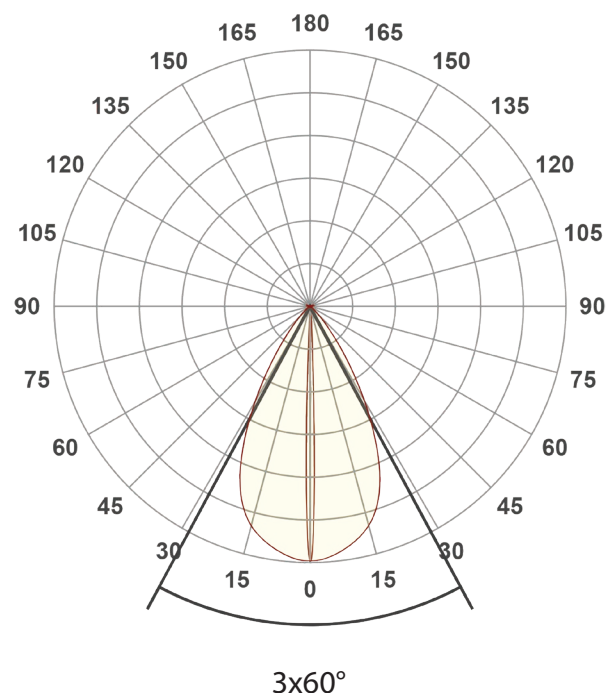
Weight
23.4 kgs (51.6lbs)

Polar Distribution

3° Conical Beam (Native)

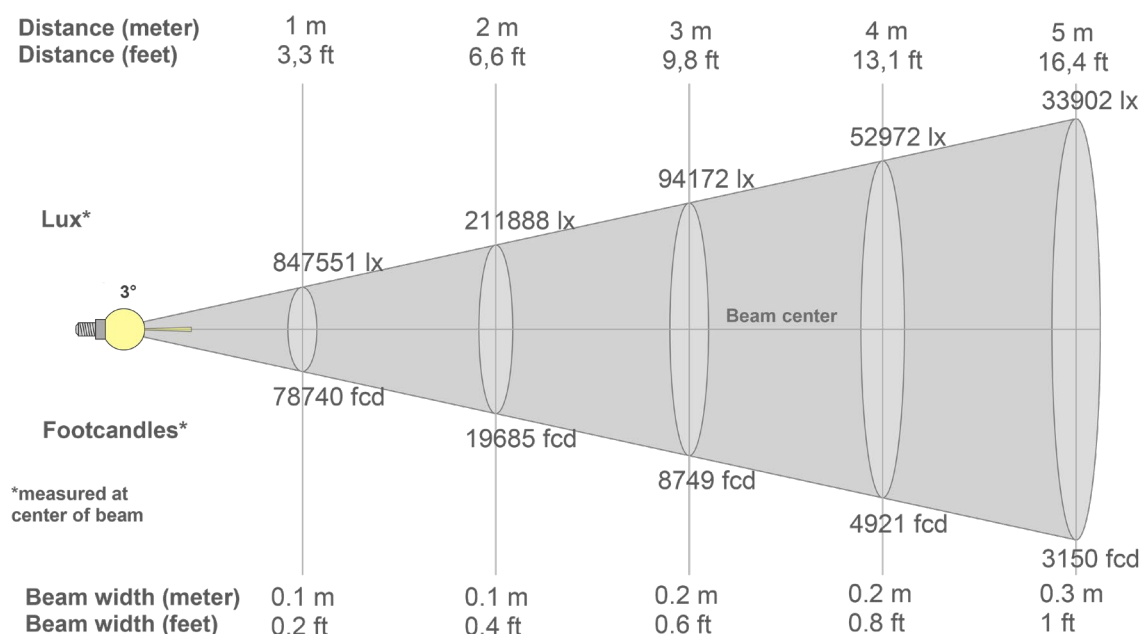


3x60° Elliptical Beam (With HBS)



LuxEOS Beam 80 - RGBW (2700K)

Intensities at Distance with native 3° Optics



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
847551lx	211888lx	94172lx	52972lx	33902lx	23543lx	17297lx	13243lx	10464lx	8476lx	7005lx	5886lx	5015lx	4324lx	3767lx	3311lx	2933lx	2616lx	2348lx	2119lx
78740fc	19685fc	8748.9fc	4921.3fc	3149.6fc	2187.2fc	1606.9fc	1230.3fc	972.1fc	787.4fc	650.7fc	546.8fc	465.9fc	401.7fc	350fc	307.6fc	272.5fc	243fc	218.1fc	196.9fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
848K	690K	344K	113K	35K	15K	9K	7K	5K	5K	4K	4K	3K	3K	2K	2K	2K	2K	2K	2K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
848K	690K	344K	113K	35K	15K	9K	7K	5K	5K	4K	4K	3K	3K	2K	2K	2K	2K	2K	2K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
848K	690K	344K	113K	35K	15K	9K	7K	5K	5K	4K	4K	3K	3K	2K	2K	2K	2K	2K	2K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
848K	690K	344K	113K	35K	15K	9K	7K	5K	5K	4K	4K	3K	3K	2K	2K	2K	2K	2K	2K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

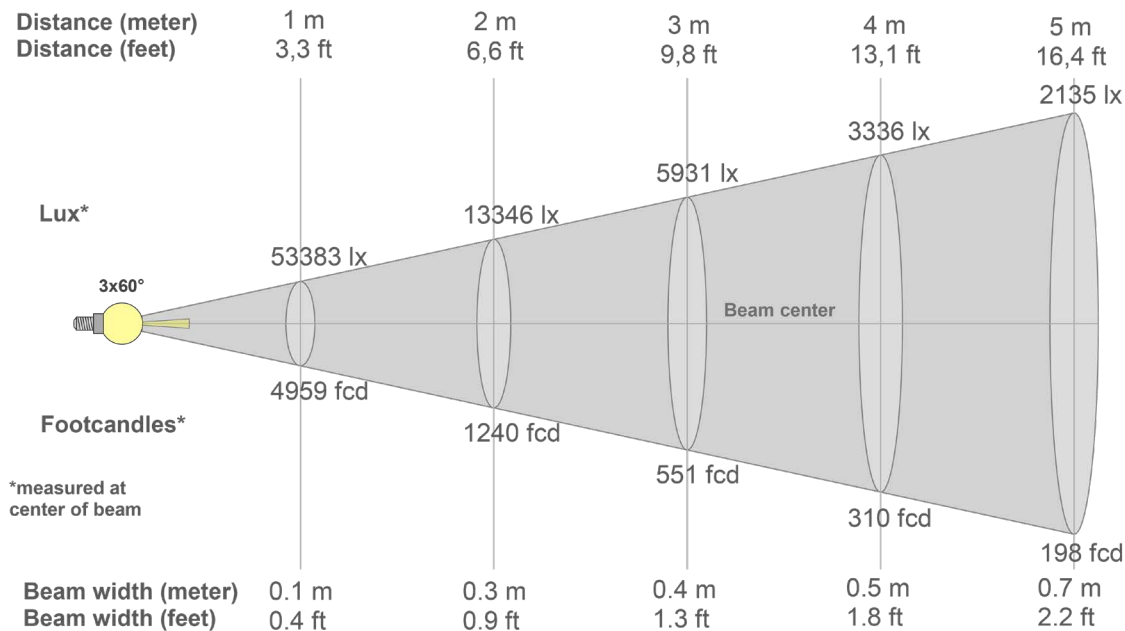
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3.5°	6.5°	9.1°	94.7%	92.4%

PULSAR

1 Pembroke Avenue, Waterbeach, Cambridge, CB25 9QP
www.pulsarlight.com | sales@pulsarlight.com | +44 (0) 1223 403 500

LuxEOS Beam 80 - RGBW (2700K)

Intensities at Distance with 3x60° Optics



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
53383lx	13346lx	5931lx	3336lx	2135lx	1483lx	1089lx	834lx	659lx	534lx	441lx	371lx	316lx	272lx	237lx	209lx	185lx	165lx	148lx	133lx
4959.4fc	1239.9fc	551fc	310fc	198.4fc	137.8fc	101.2fc	77.5fc	61.2fc	49.6fc	41fc	34.4fc	29.3fc	25.3fc	22fc	19.4fc	17.2fc	15.3fc	13.7fc	12.4fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
53.4K	47.8K	31.6K	17.0K	8.7K	5.1K	3.7K	2.9K	2.4K	2.0K	1.6K	1.4K	1.2K	1.0K	0.9K	0.8K	0.7K	0.7K	0.6K	0.5K
100%	90%	59%	32%	16%	10%	7%	5%	4%	4%	3%	3%	2%	2%	2%	2%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
53.4K	53.8K	53.6K	53.2K	52.6K	52.1K	51.6K	50.9K	50.1K	49.3K	48.3K	47.2K	46.1K	44.8K	43.4K	42.0K	40.4K	38.8K	37.2K	35.4K
100%	101%	100%	100%	99%	98%	97%	95%	94%	92%	90%	88%	86%	84%	81%	79%	76%	73%	70%	66%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
53.4K	47.8K	31.6K	17.0K	8.7K	5.1K	3.7K	2.9K	2.4K	2.0K	1.6K	1.4K	1.2K	1.0K	0.9K	0.8K	0.7K	0.7K	0.6K	0.5K
100%	90%	59%	32%	16%	10%	7%	5%	4%	4%	3%	3%	2%	2%	2%	2%	1%	1%	1%	1%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
53.4K	53.8K	53.6K	53.2K	52.6K	52.1K	51.6K	50.9K	50.1K	49.3K	48.3K	47.2K	46.1K	44.8K	43.4K	42.0K	40.4K	38.8K	37.2K	35.4K
100%	101%	100%	100%	99%	98%	97%	95%	94%	92%	90%	88%	86%	84%	81%	79%	76%	73%	70%	66%

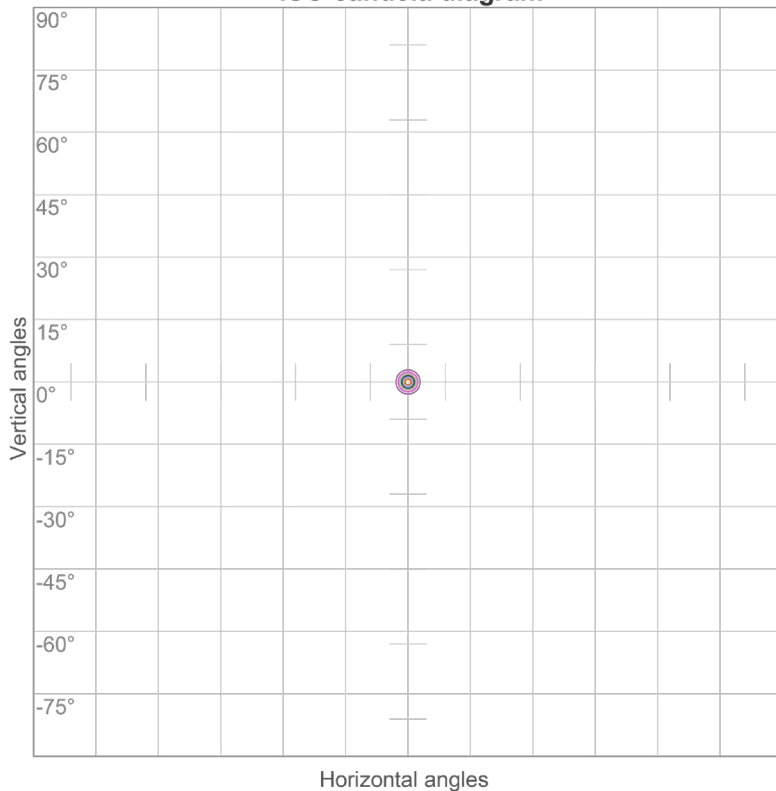
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
7.8°	15.1°	28.5°	97.4%	93.7%

LuxEOS Beam 80 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with native 3° Optics



ISO candela diagram



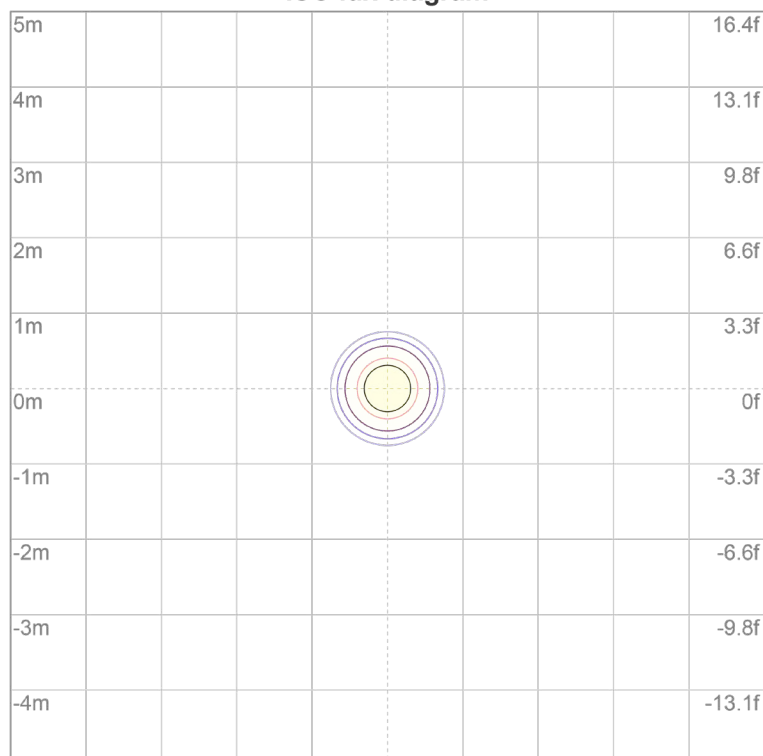
10%	84755 cd
20%	169510 cd
30%	254265 cd
40%	339020 cd
50%	423775 cd
60%	508530 cd
70%	593285 cd
80%	678040 cd
90%	762796 cd

Conditions:

Number of c-planes: 72

Candela at center: 847551 cd

ISO lux diagram



3%	254 lx
5%	424 lx
10%	848 lx
30%	2543 lx
50%	4238 lx

Conditions:

Number of c-planes: 72

Lux at center: 8476 lx

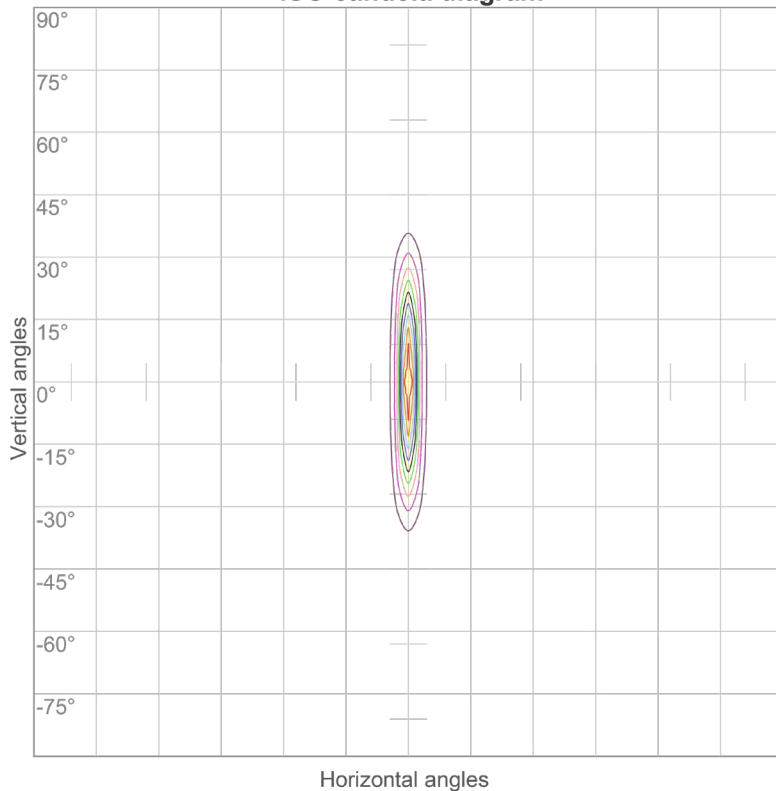
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Beam 80 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with 3x60° Optics



ISO candela diagram



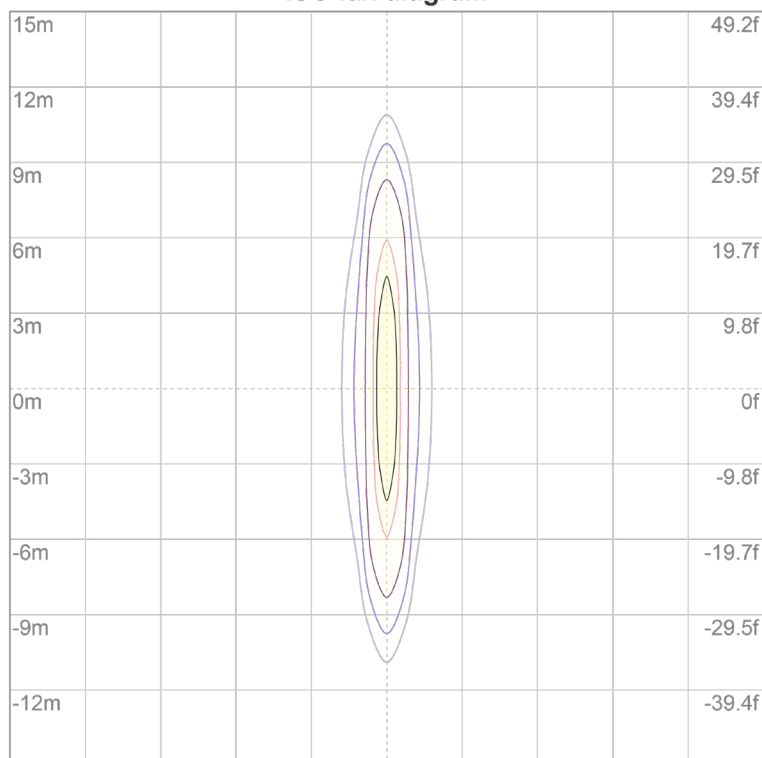
10%	5338 cd
20%	10677 cd
30%	16015 cd
40%	21353 cd
50%	26691 cd
60%	32030 cd
70%	37368 cd
80%	42706 cd
90%	48045 cd

Conditions:

Number of c-planes: 72

Candela at center: 53383 cd

ISO lux diagram



3%	16.0 lx
5%	26.7 lx
10%	53.4 lx
30%	160 lx
50%	267 lx

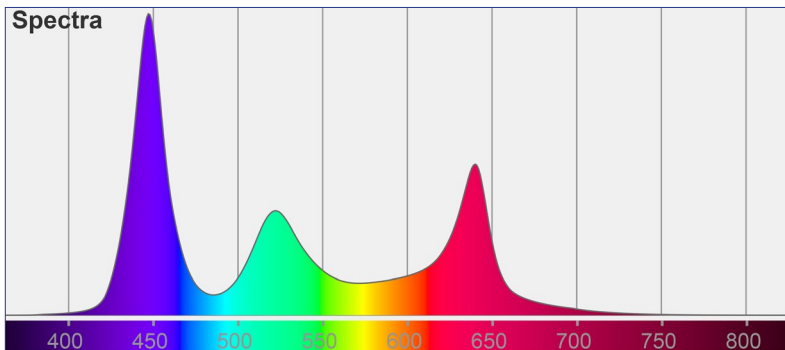
Conditions:

Number of c-planes: 72

Lux at center: 534 lx

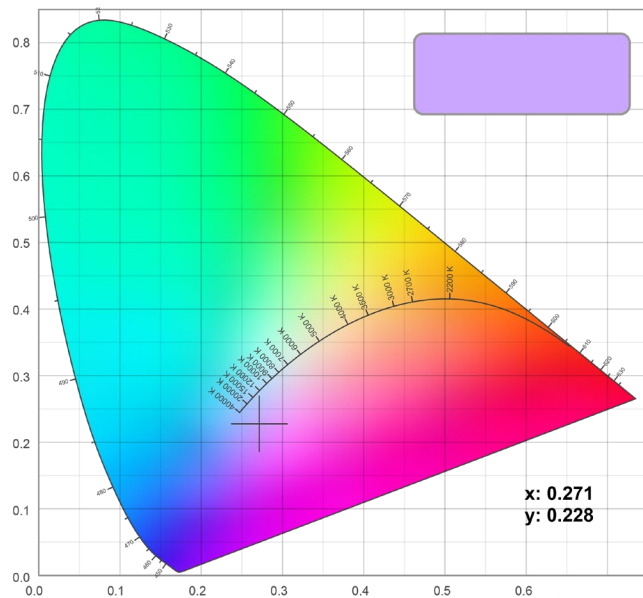
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Beam 80 - RGBW (2700K) Colormetrics RGBW

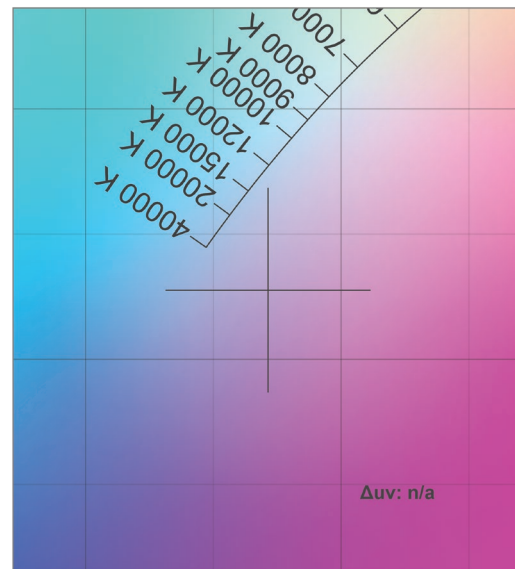


Total Lumen Output (Native) : 5712 lm
Efficacy : 32 lm/W
Voltage : 240V
Supply Power : 180W
Supply Power Factor : 0.97

CIE 1931

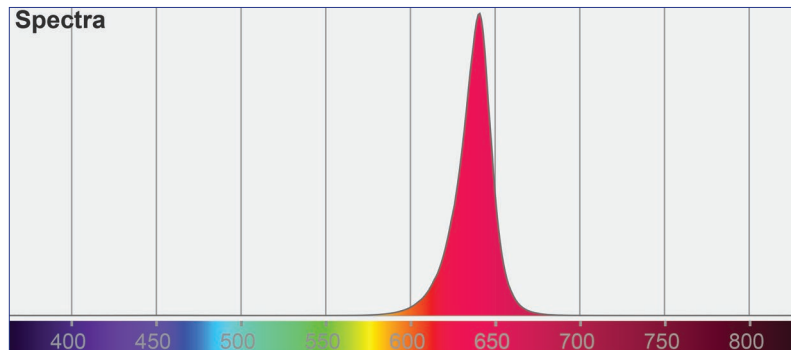


CIE 1931 Zoom



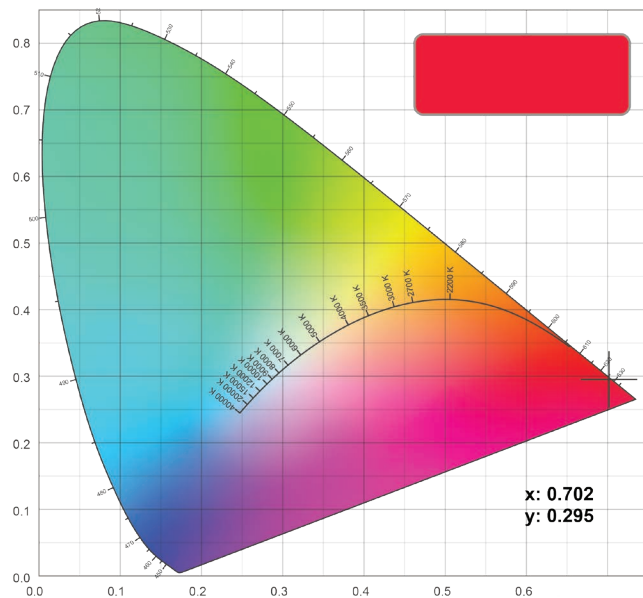
LuxEOS Beam 80 - RGBW (2700K)

Colormetrics **RED**

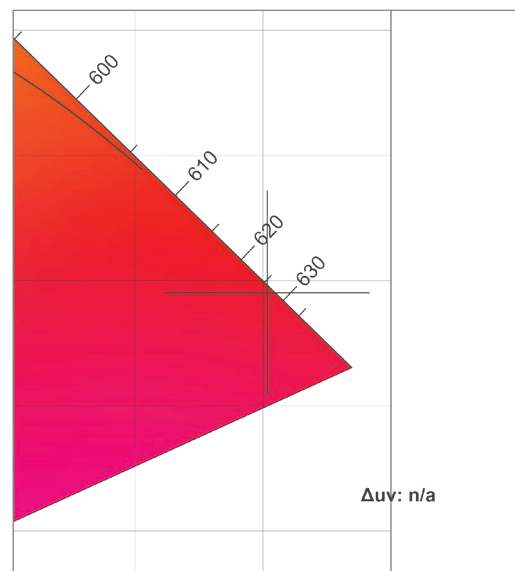


Red Lumen Output : 980 lm

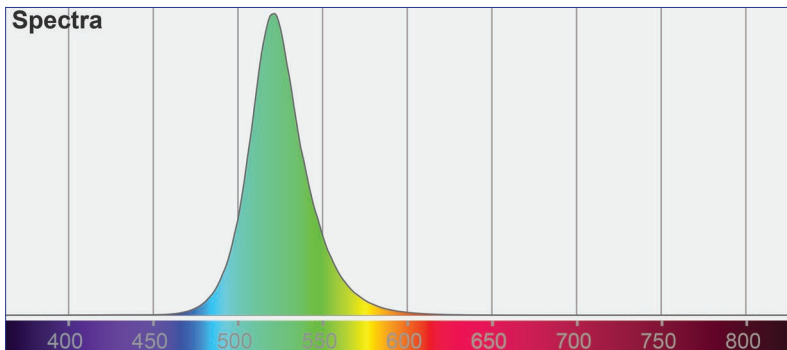
CIE 1931



CIE 1931 Zoom

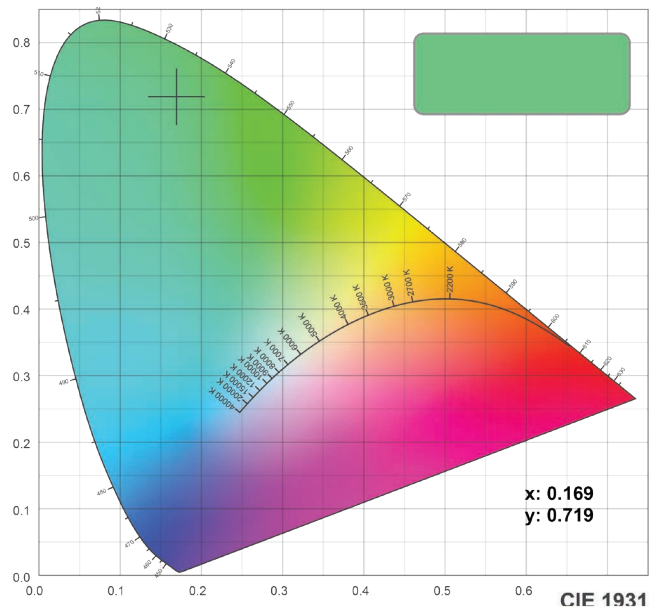


LuxEOS Beam 80 - RGBW (2700K) Colormetrics **GREEN**

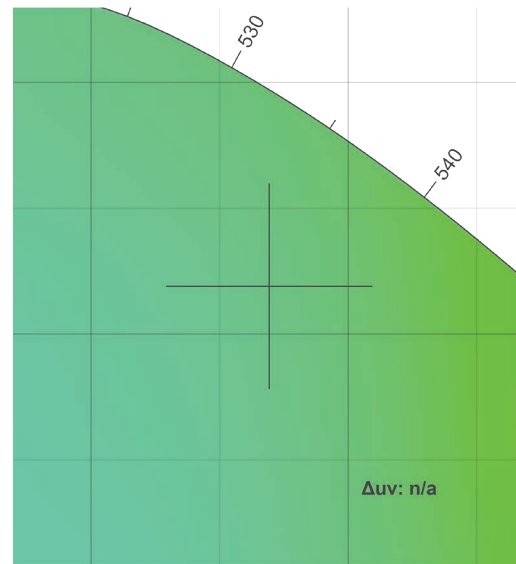


Green Lumen Output : 2944 lm

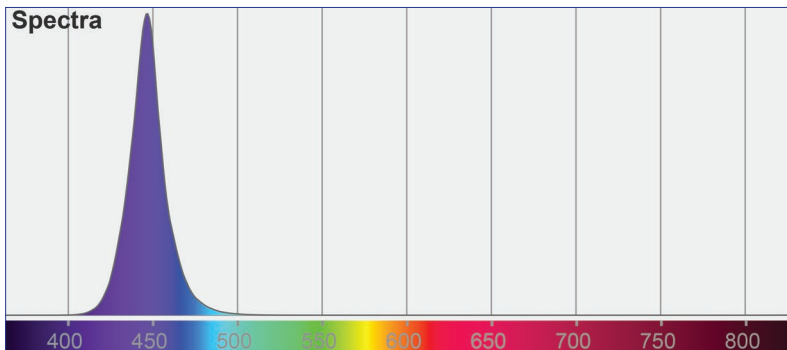
CIE 1931



CIE 1931 Zoom

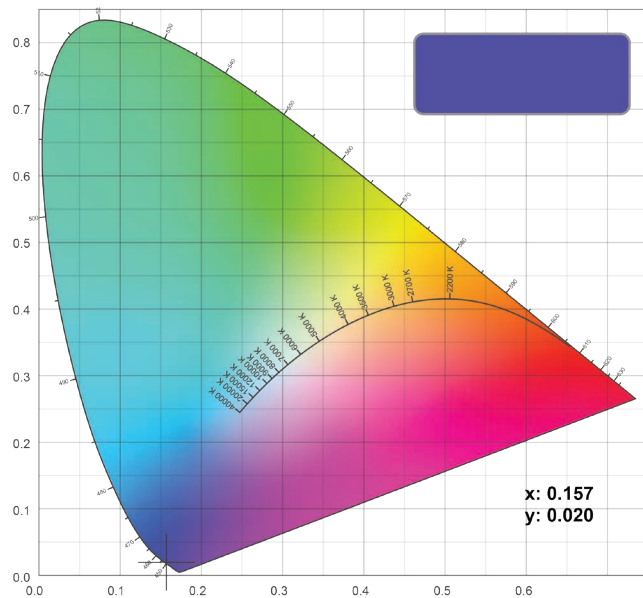


LuxEOS Beam 80 - RGBW (2700K) Colormetrics **BLUE**

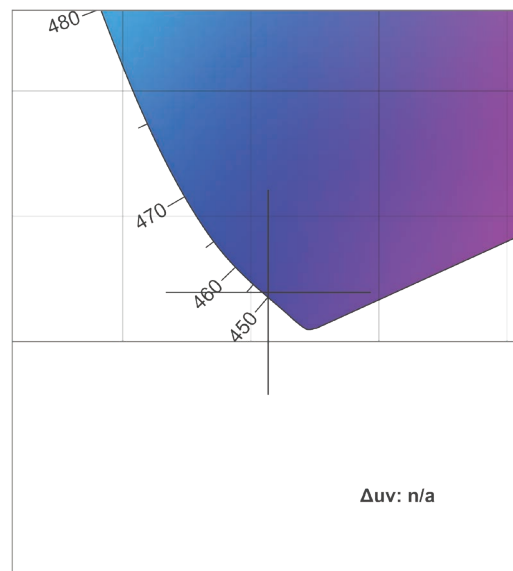


Blue Lumen Output : 400 lm

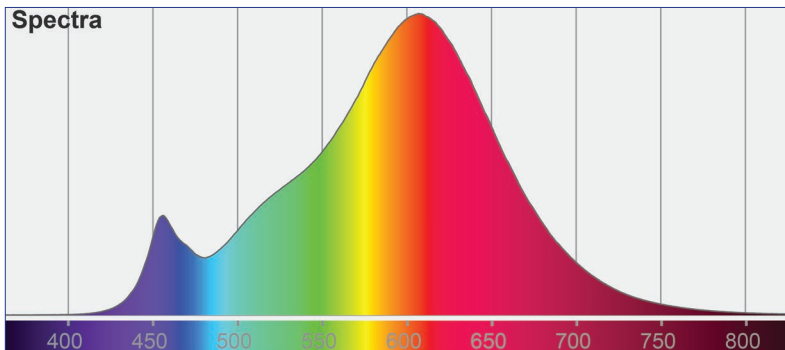
CIE 1931



CIE 1931 Zoom

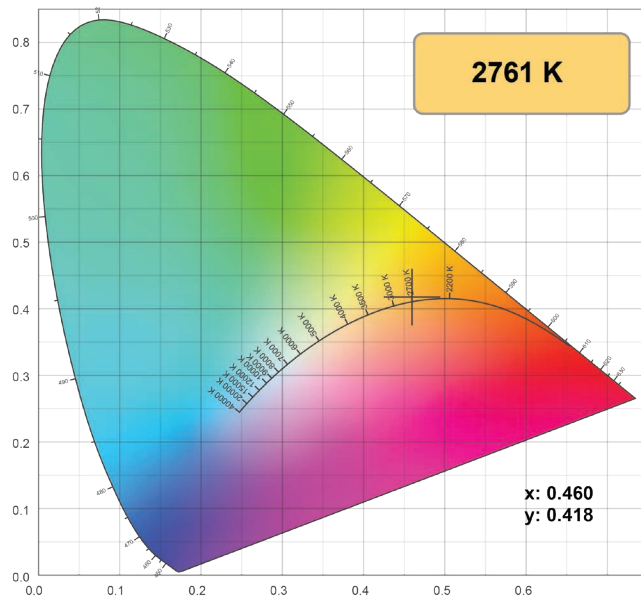


LuxEOS Beam 80 - RGBW (2700K) Colormetrics **White 2700K**

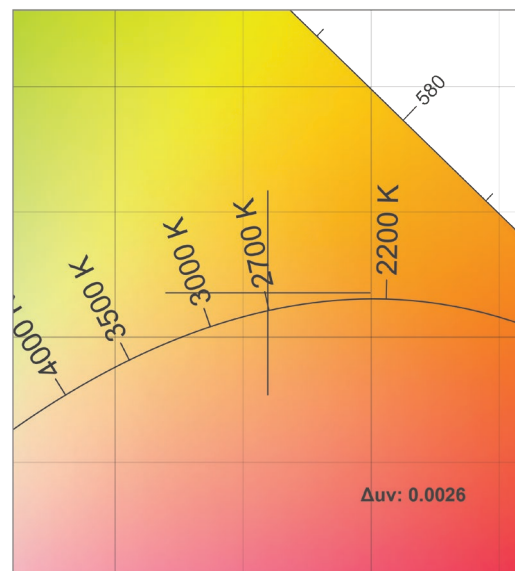


White 2700K Lumen Output : 2752 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



Should further photometric variations be required, please contact our Head Office.

As part our commitment to continuous improvement PULSAR may change the specifications of its products without prior notification or public announcement.
All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract.

PULSAR

1 Pembroke Avenue, Waterbeach, Cambridge, CB25 9QP
www.pulsarlight.com | sales@pulsarlight.com | +44 (0) 1223 403 500