

LuxEOS Beam 80 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



LuxEOS BEAM 80 RGBW (5700K) 3° 3x60°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

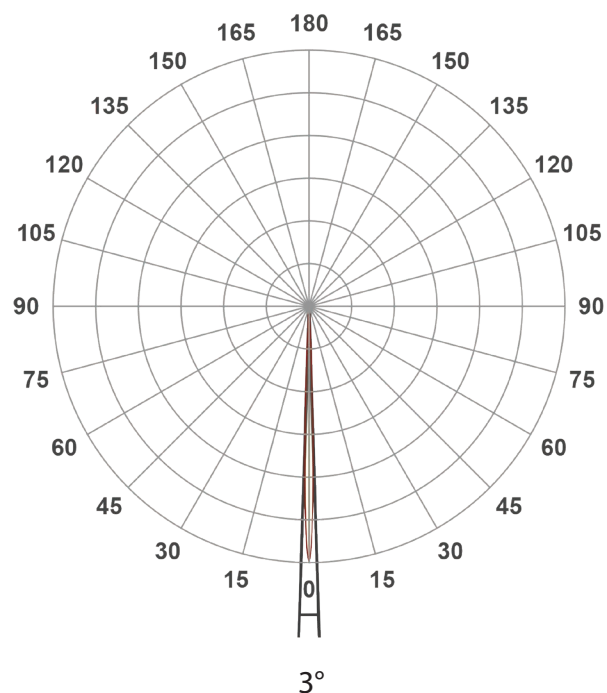
Date
Nov 2020

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

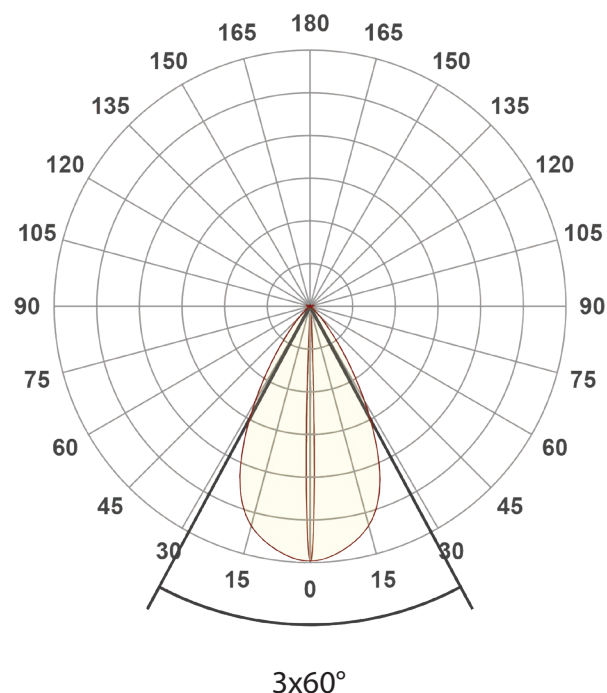
Weight
23.4 kgs (51.6lbs)

Polar Distribution

3° Conical Beam (Native)

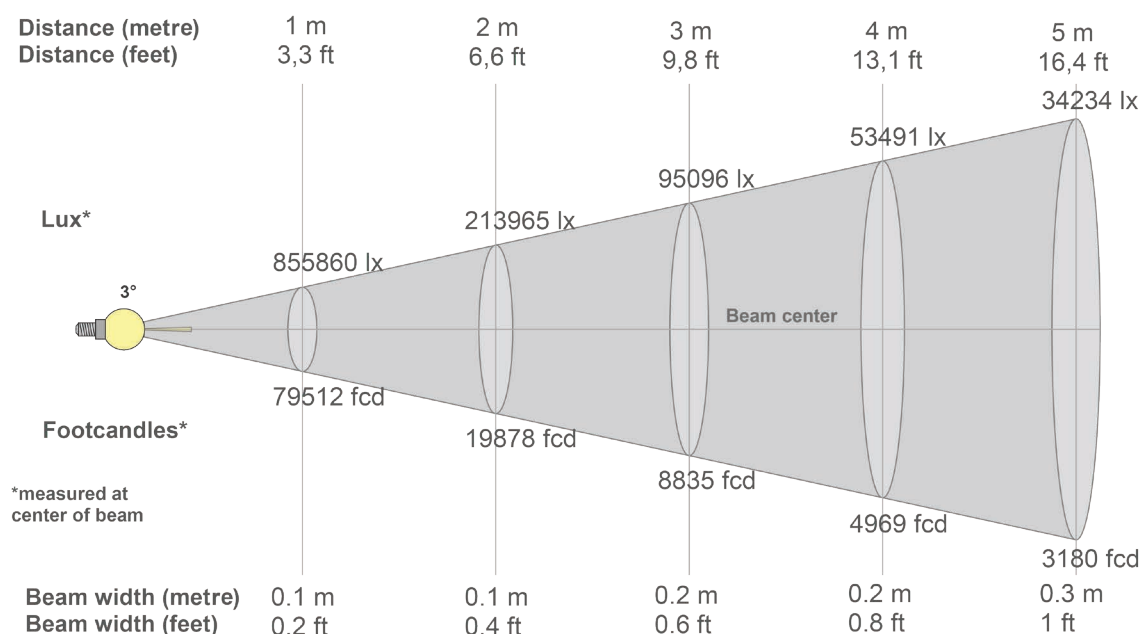


3x60° Elliptical Beam (With HBS)



LuxEOS BEAM 80 - RGBW (5700K)

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
855860lx	213965lx	95096lx	53491lx	34234lx	23774lx	17467lx	13373lx	10566lx	8559lx	7073lx	5943lx	5064lx	4367lx	3804lx	3343lx	2961lx	2642lx	2371lx	2140lx
79512fc	19878fc	8834.7fc	4969.5fc	3180.5fc	2208.7fc	1622.7fc	1242.4fc	981.6fc	795.1fc	657.1fc	552.2fc	470.5fc	405.7fc	353.4fc	310.6fc	275.1fc	245.4fc	220.3fc	198.8fc

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°
856K	696K	347K	114K	35K	15K	9K	7K	6K	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°
856K	696K	347K	114K	35K	15K	9K	7K	6K	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°
856K	696K	347K	114K	35K	15K	9K	7K	6K	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%

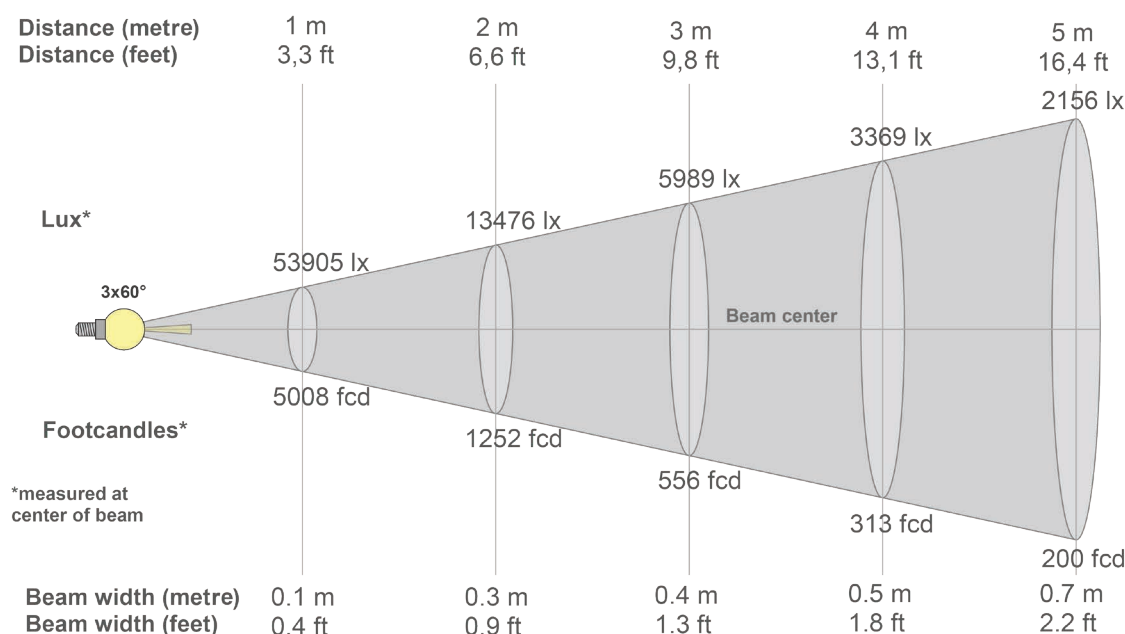
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
856K	696K	347K	114K	35K	15K	9K	7K	6K	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%

LuxEOS BEAM 80 - RGBW (5700K)

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
53905lx	13476lx	5989lx	3369lx	2156lx	1497lx	1100lx	842lx	665lx	539lx	445lx	374lx	319lx	275lx	240lx	211lx	187lx	166lx	149lx	135lx
5007.9fc	1252fc	556.4fc	313fc	200.3fc	139.1fc	102.2fc	78.2fc	61.8fc	50.1fc	41.4fc	34.8fc	29.6fc	25.6fc	22.3fc	19.6fc	17.3fc	15.5fc	13.9fc	12.5fc

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°
53.9K	48.3K	31.9K	17.2K	8.8K	5.2K	3.7K	3.0K	2.4K	2.0K	1.7K	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°
53.9K	54.3K	54.1K	53.7K	53.2K	52.6K	52.1K	51.4K	50.6K	49.7K	48.8K	47.7K	46.5K	45.2K	43.9K	42.4K	40.8K	39.2K	37.5K	35.8K
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°
53.9K	48.3K	31.9K	17.2K	8.8K	5.2K	3.7K	3.0K	2.4K	2.0K	1.7K	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°
53.9K	54.3K	54.1K	53.7K	53.2K	52.6K	52.1K	51.4K	50.6K	49.7K	48.8K	47.7K	46.5K	45.2K	43.9K	42.4K	40.8K	39.2K	37.5K	35.8K
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%

PULSAR

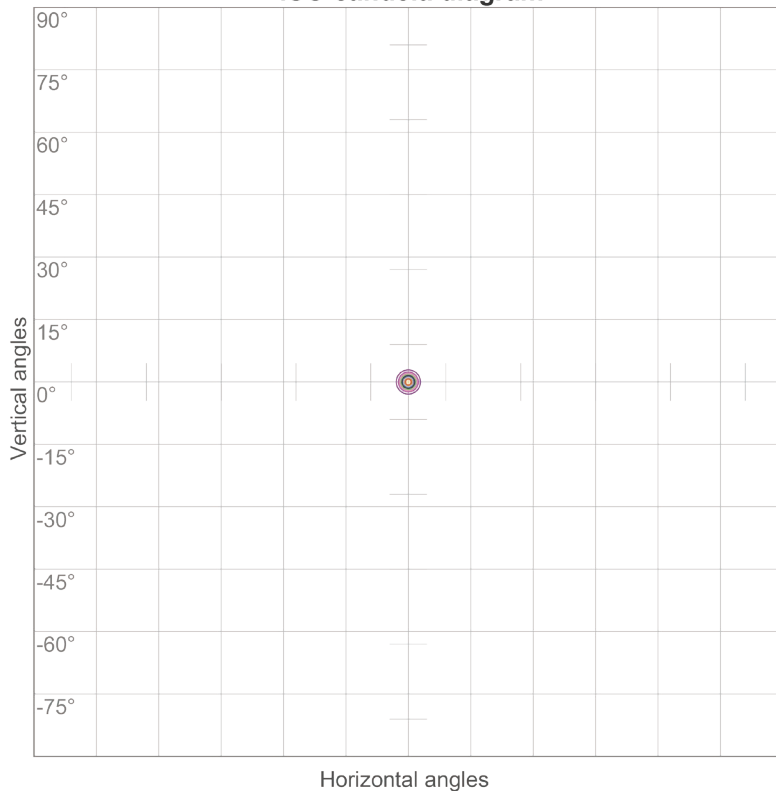
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LuxEOS BEAM 80 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with native 3° Optics



ISO candela diagram



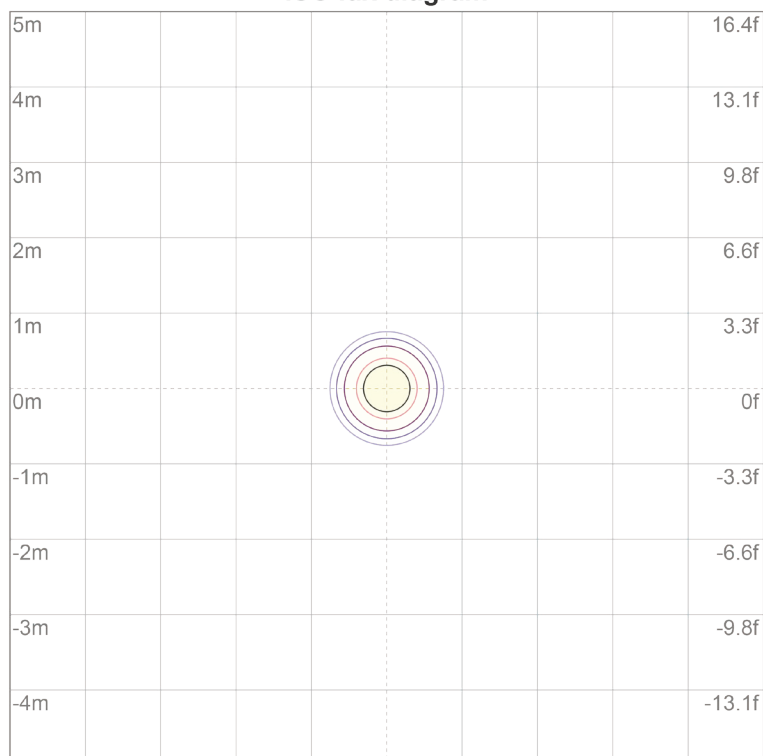
10%	85586 cd
20%	171172 cd
30%	256758 cd
40%	342344 cd
50%	427930 cd
60%	513516 cd
70%	599102 cd
80%	684688 cd
90%	770274 cd

Conditions:

Number of c-planes: 72

Candela at center: 855860 cd

ISO lux diagram



3%	257 lx
5%	428 lx
10%	856 lx
30%	2568 lx
50%	4279 lx

Conditions:

Number of c-planes: 72

Lux at center: 8559 lx

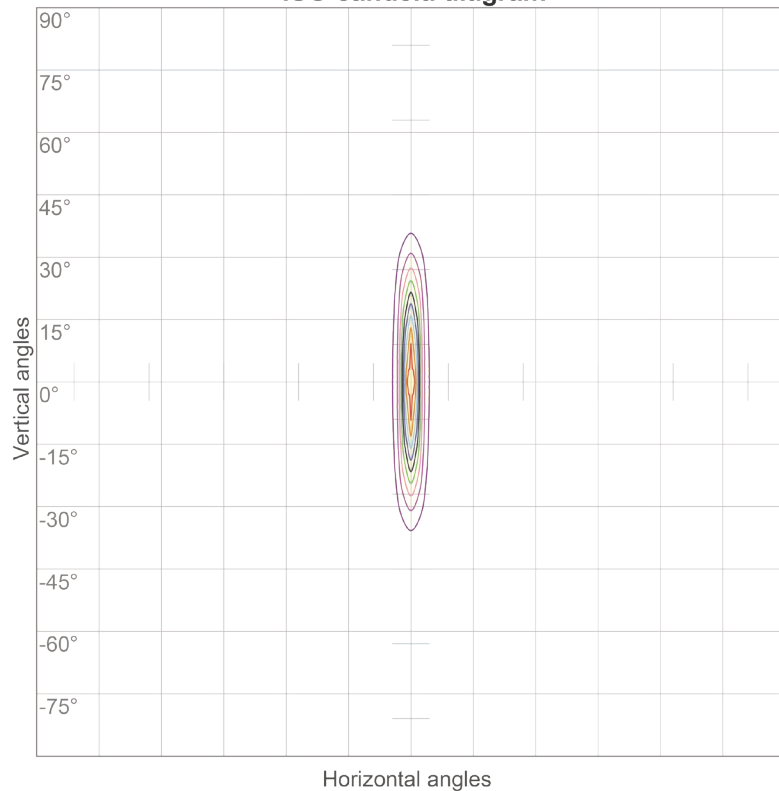
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS BEAM 80 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 3x60° Optics



ISO candela diagram



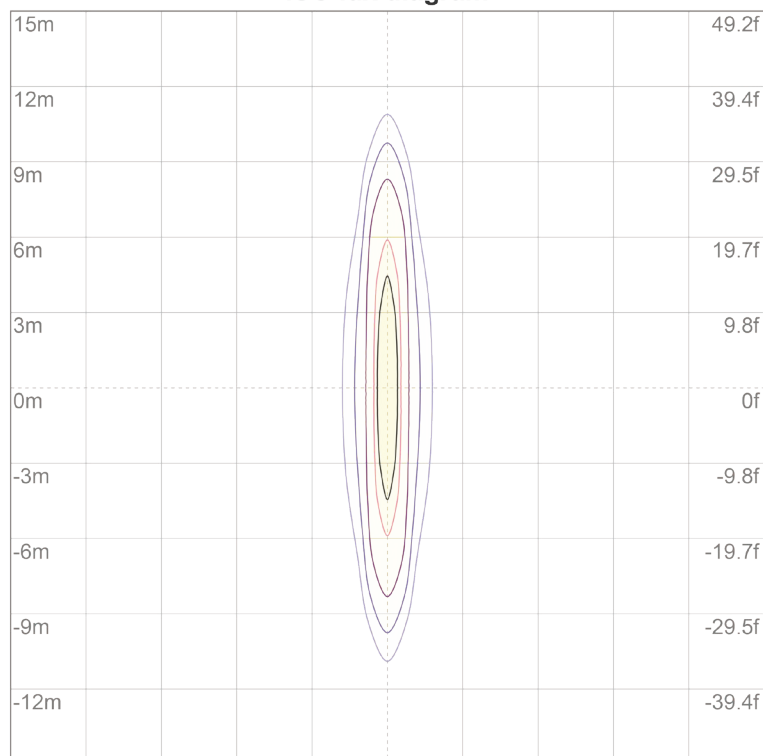
10%	5390 cd
20%	10781 cd
30%	16171 cd
40%	21562 cd
50%	26952 cd
60%	32343 cd
70%	37733 cd
80%	43124 cd
90%	48514 cd

Conditions:

Number of c-planes: 72

Candela at center: 53905 cd

ISO lux diagram



3%	16.2 lx
5%	27.0 lx
10%	53.9 lx
30%	162 lx
50%	270 lx

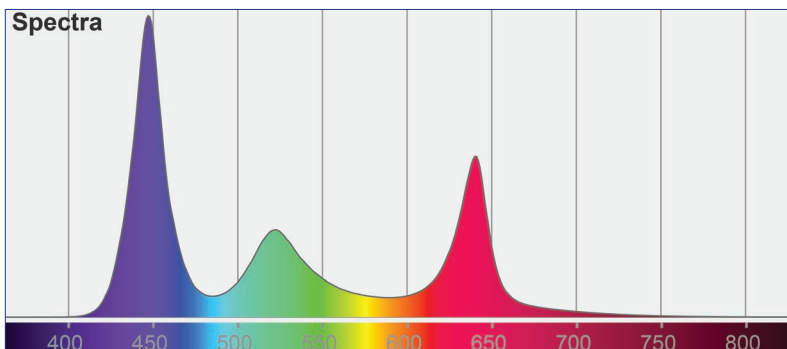
Conditions:

Number of c-planes: 72

Lux at center: 539 lx

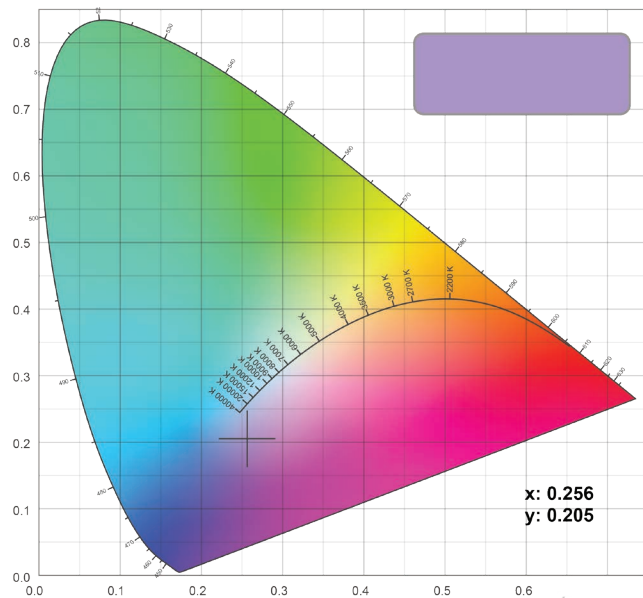
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS BEAM 80 - RGBW (5700K) Colormetrics RGBW

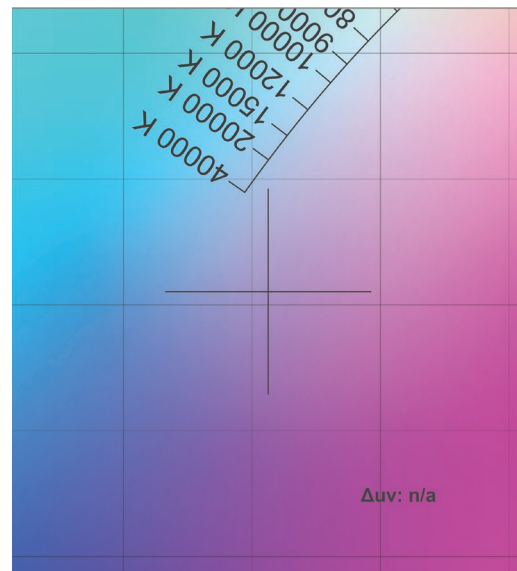


Total Lumen Output (Native) : 5768 lm
Efficacy : 32 lm/W
Voltage : 240V
Supply Power : 180W
Supply Power Factor : 0.97

CIE 1931

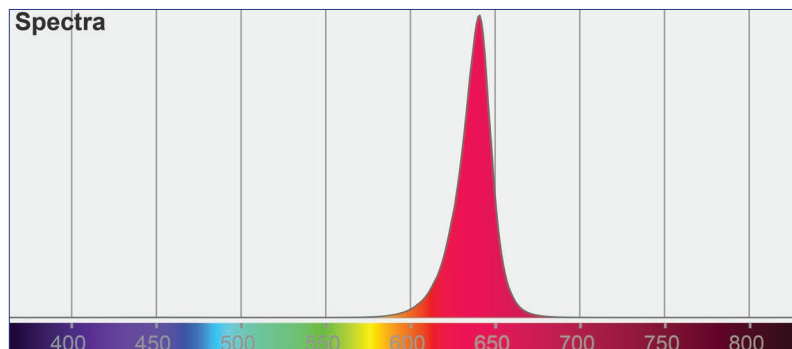


CIE 1931 Zoom



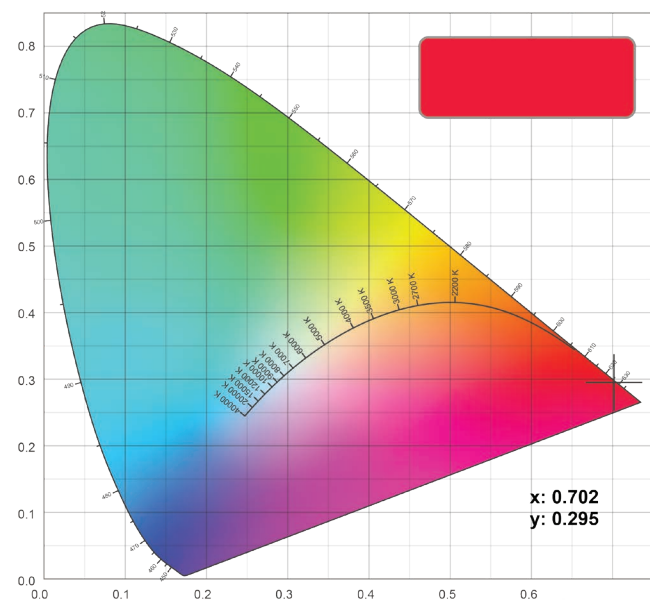
LuxEOS BEAM 80 - RGBW (5700K)

Colormetrics **RED**

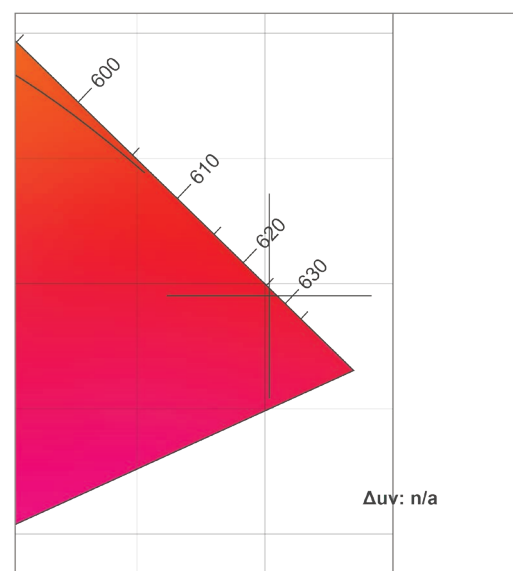


Red Lumen Output : 980 lm

CIE 1931

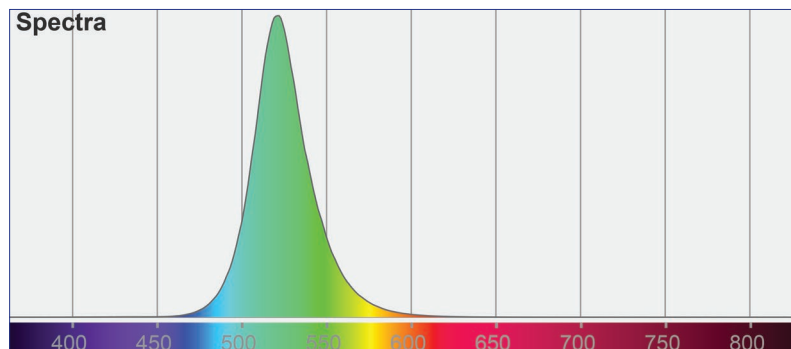


CIE 1931 Zoom



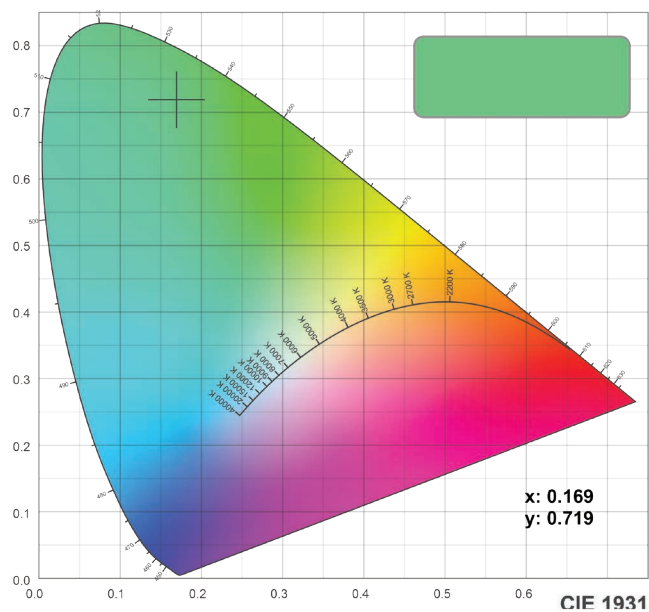
LuxEOS BEAM 80 - RGBW (5700K)

Colormetrics **GREEN**

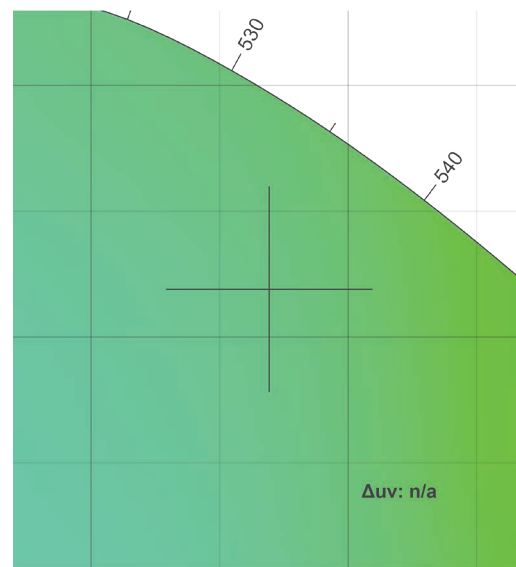


Green Lumen Output : 2944 lm

CIE 1931

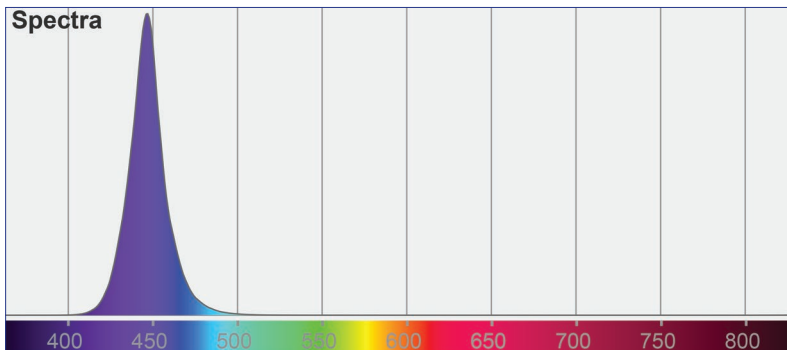


CIE 1931 Zoom



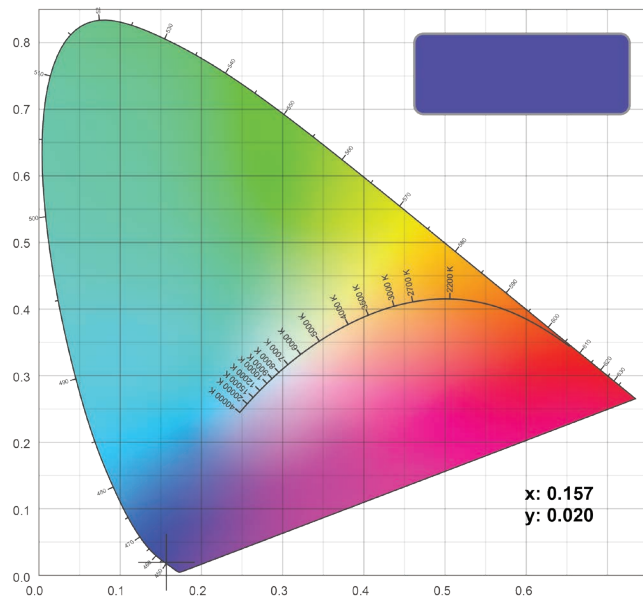
LuxEOS BEAM 80 - RGBW (5700K)

Colormetrics **BLUE**

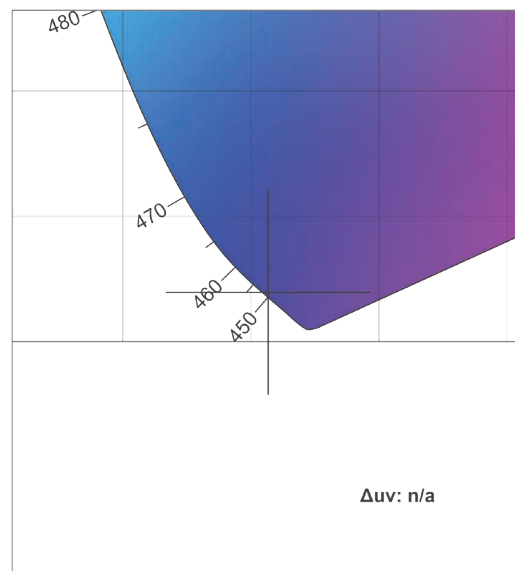


Blue Lumen Output : 400 lm

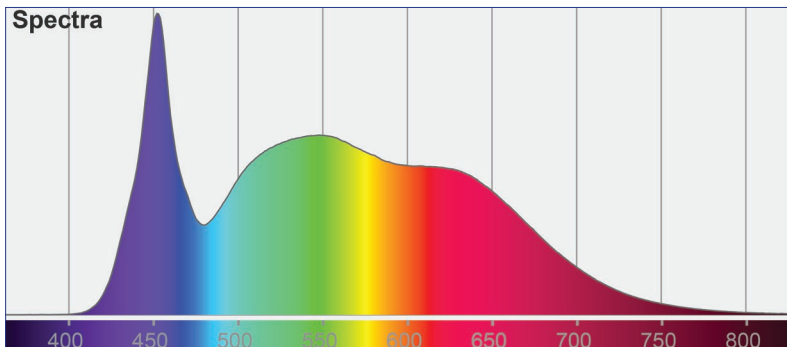
CIE 1931



CIE 1931 Zoom

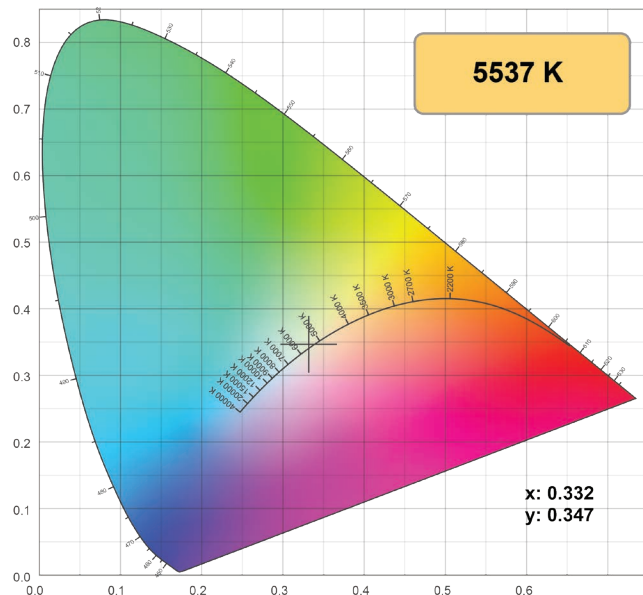


LuxEOS BEAM 80 - RGBW (5700K) Colormetrics **WHITE**

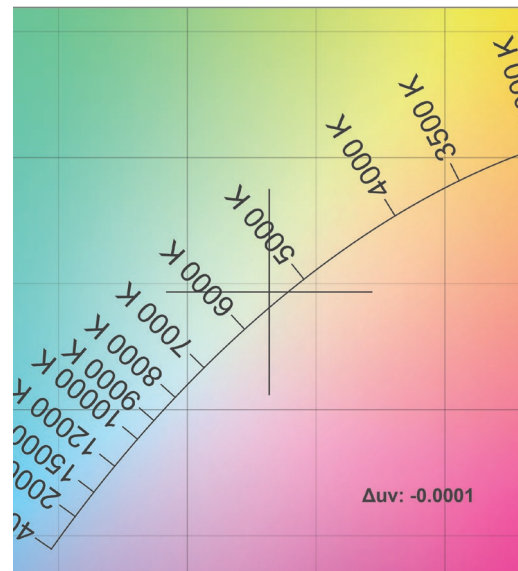


White 5700K Lumen Output : 2768 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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