

LuxEOS Beam 20 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



LuxEOS BEAM 20 RGBA (1700K) 3° 3x60°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

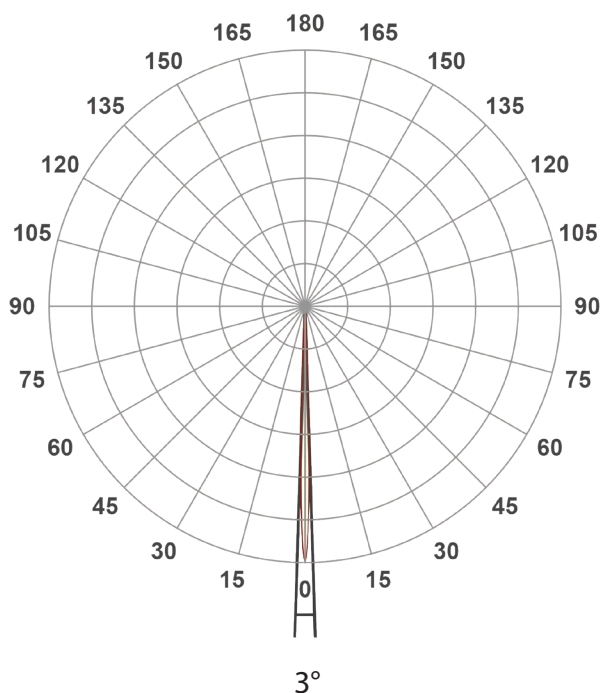
Date
Nov 2020

Dimensions
350mm (H) x 255mm (W) x 150mm (D) (including yoke)

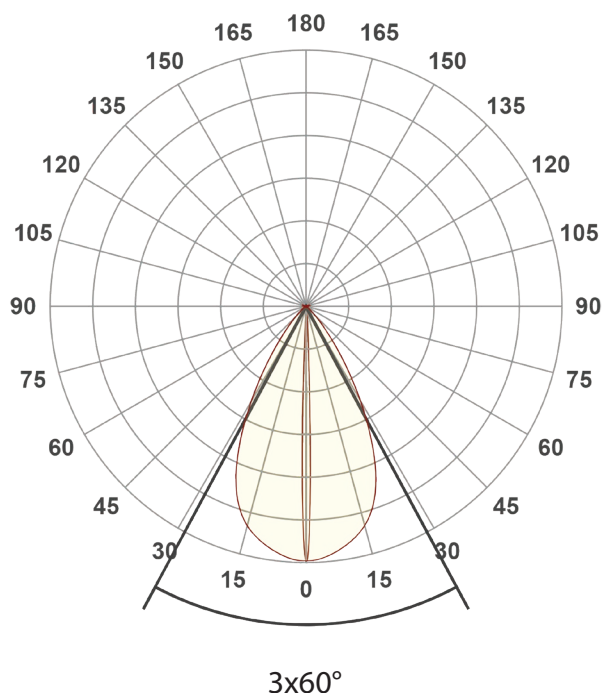
Weight
7.3kgs (16.0lbs)

Polar Distribution

3° Conical Beam (Native)

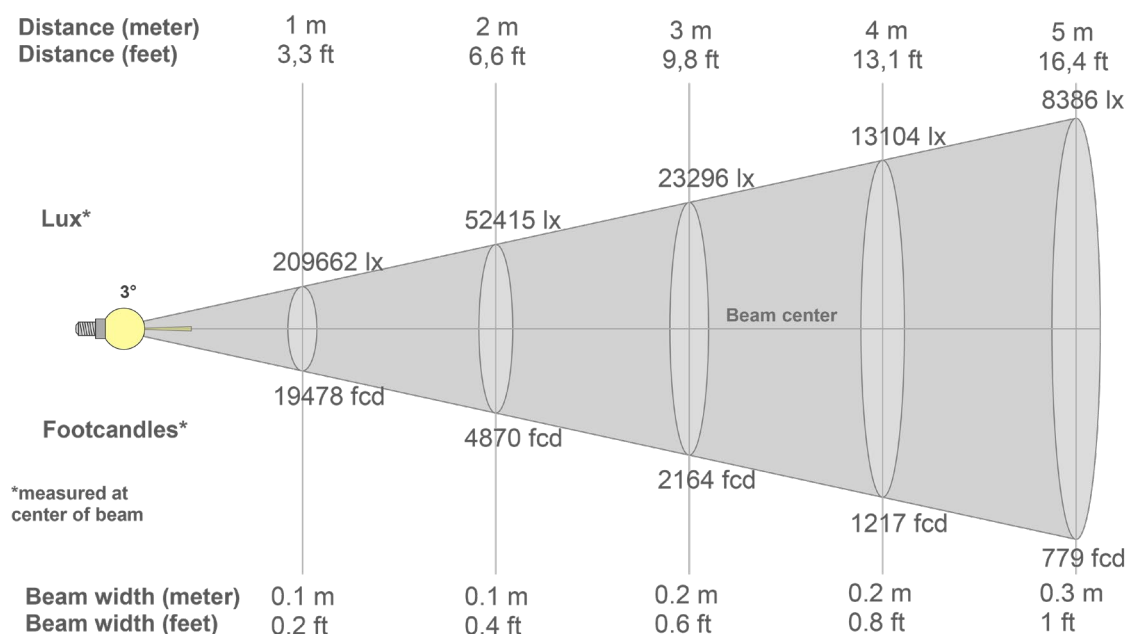


3x60° Elliptical Beam (With HBS)



LuxEOS Beam 20 - RGBA (1700K)

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
209662lx	52415lx	23296lx	13104lx	8386lx	5824lx	4279lx	3276lx	2588lx	2097lx	1733lx	1456lx	1241lx	1070lx	932lx	819lx	725lx	647lx	581lx	524lx
19478.2fc	4869.6fc	2164.2fc	1217.4fc	779.1fc	541.1fc	397.5fc	304.3fc	240.5fc	194.8fc	161fc	135.3fc	115.3fc	99.4fc	86.6fc	76.1fc	67.4fc	60.1fc	54fc	48.7fc

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°
210K	171K	85K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	0K	0K	0K	0K
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°
210K	171K	85K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	0K	0K	0K	0K
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°
210K	171K	85K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	0K	0K	0K	0K
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°
210K	171K	85K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	0K	0K	0K	0K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

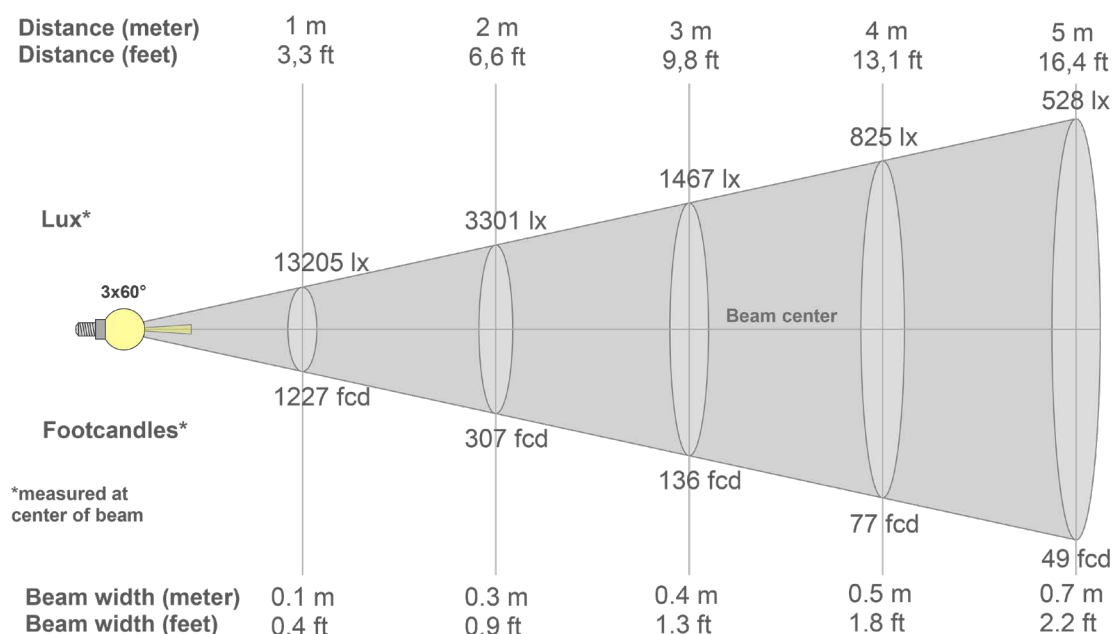
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3.5°	6.5°	9.1°	94.7%	92.4%

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LuxEOS Beam 20 - RGBA (1700K)

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
13205lx	3301lx	1467lx	825lx	528lx	367lx	269lx	206lx	163lx	132lx	109lx	92lx	78lx	67lx	59lx	52lx	46lx	41lx	37lx	33lx
1226.8fc	306.7fc	136.3fc	76.7fc	49.1fc	34.1fc	25fc	19.2fc	15.1fc	12.3fc	10.1fc	8.5fc	7.3fc	6.3fc	5.5fc	4.8fc	4.2fc	3.8fc	3.4fc	3.1fc

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°
13.2K	11.8K	7.8K	4.2K	2.2K	1.3K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K	0.3K	0.3K	0.2K	0.2K	0.2K	0.2K	0.2K	0.1K
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°
13.2K	13.3K	13.3K	13.2K	13.0K	12.9K	12.8K	12.6K	12.4K	12.2K	11.9K	11.7K	11.4K	11.1K	10.7K	10.4K	10.0K	9.6K	9.2K	8.8K
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°
13.2K	11.8K	7.8K	4.2K	2.2K	1.3K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K	0.3K	0.3K	0.2K	0.2K	0.2K	0.2K	0.2K	0.1K
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°
13.2K	13.3K	13.3K	13.2K	13.0K	12.9K	12.8K	12.6K	12.4K	12.2K	11.9K	11.7K	11.4K	11.1K	10.7K	10.4K	10.0K	9.6K	9.2K	8.8K
100%	101%	100%	100%	99%	98%	97%	95%	94%	92%	90%	88%	86%	84%	81%	79%	76%	73%	70%	66%

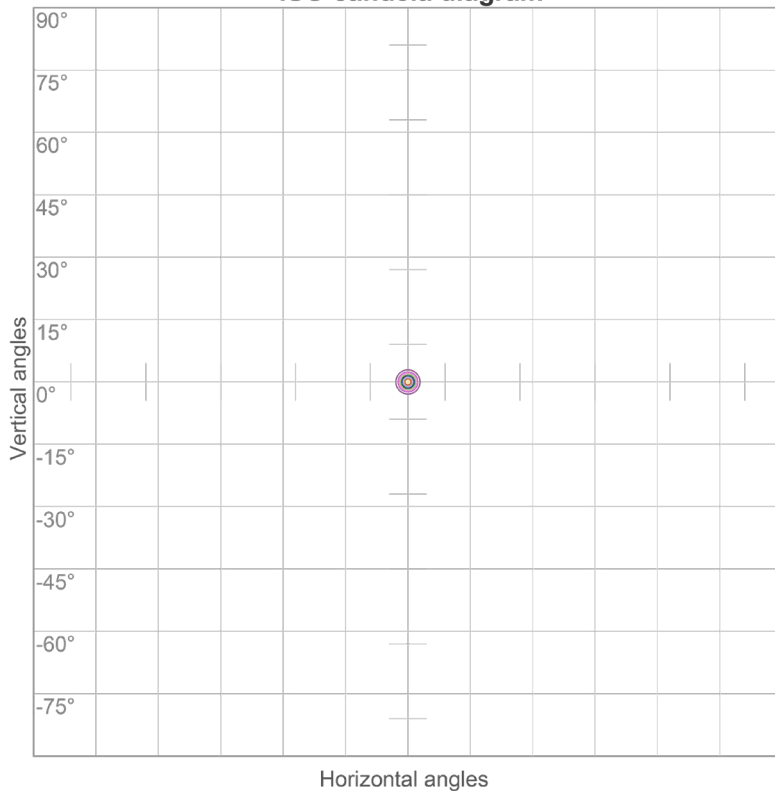
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
7.8°	15.1°	28.5°	97.4%	93.7%

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ISO candela diagram



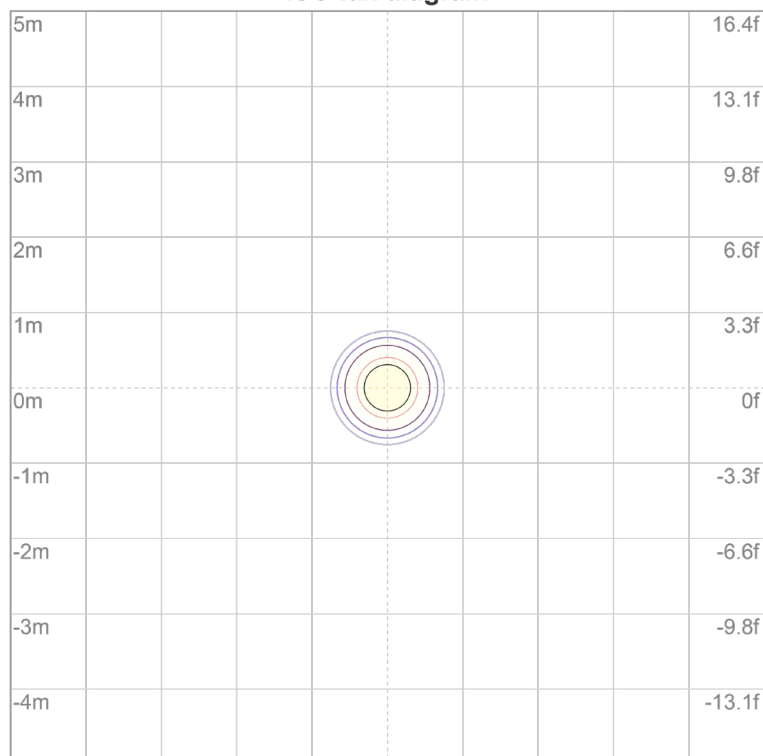
10%	20966 cd
20%	41932 cd
30%	62899 cd
40%	83865 cd
50%	104831 cd
60%	125797 cd
70%	146763 cd
80%	167730 cd
90%	188696 cd

Conditions:

Number of c-planes: 72

Candela at center: 209662 cd

ISO lux diagram



3%	62.9 lx
5%	105 lx
10%	210 lx
30%	629 lx
50%	1048 lx

Conditions:

Number of c-planes: 72

Lux at center: 2097 lx

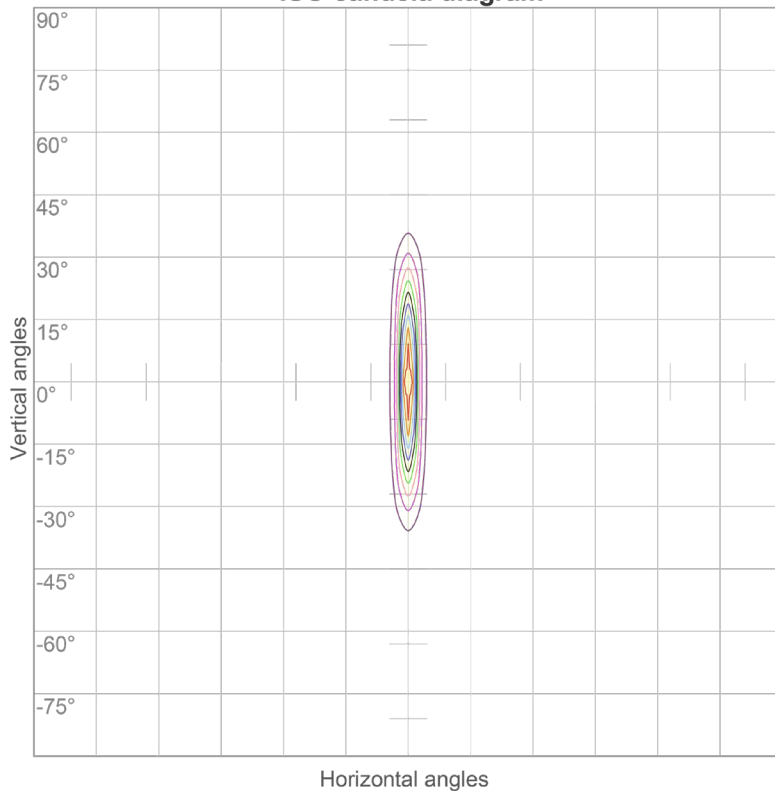
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

LuxEOS Beam 20 - RGBA (1700K)

ISO Candela & ISO Lux diagrams with 3x60° Optics



ISO candela diagram



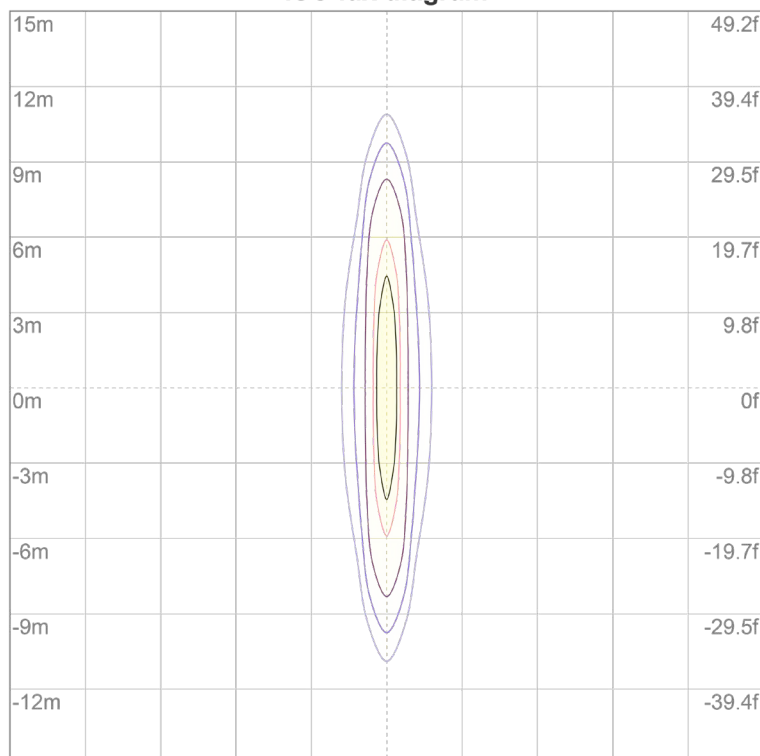
10%	1321 cd
20%	2641 cd
30%	3962 cd
40%	5282 cd
50%	6603 cd
60%	7923 cd
70%	9244 cd
80%	10564 cd
90%	11885 cd

Conditions:

Number of c-planes: 72

Candela at center: 13205 cd

ISO lux diagram



3%	3.96 lx
5%	6.60 lx
10%	13.2 lx
30%	39.6 lx
50%	66.0 lx

Conditions:

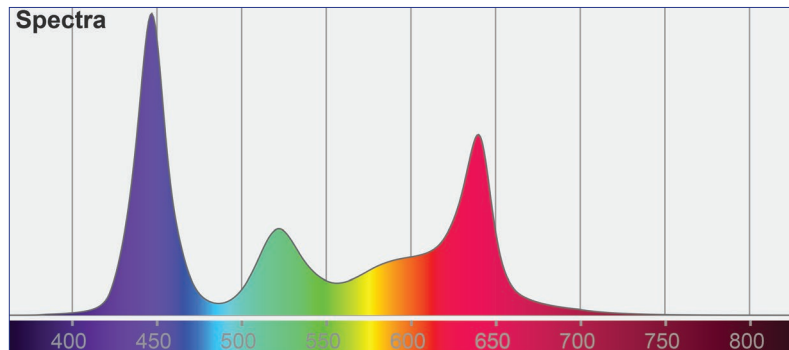
Number of c-planes: 72

Lux at center: 132 lx

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

LuxEOS Beam 20 - RGBA (1700K)

Colormetrics **RGBA**



Total Lumen Output (Native) : 1413 lm

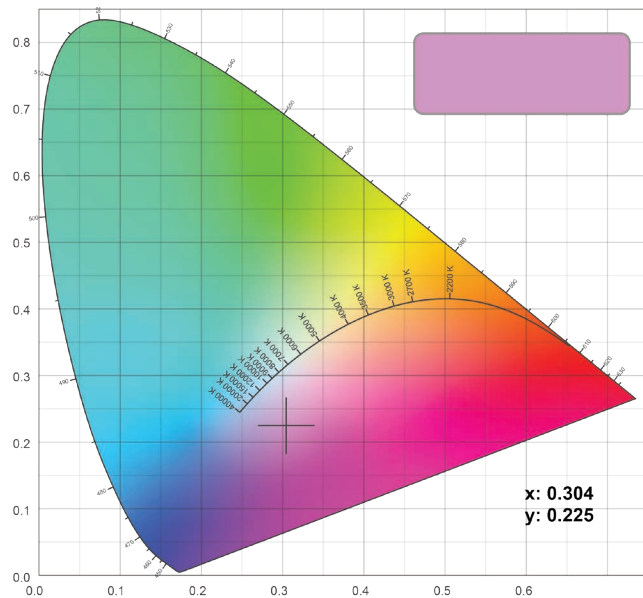
Efficacy : 32 lm/W

Voltage : 240V

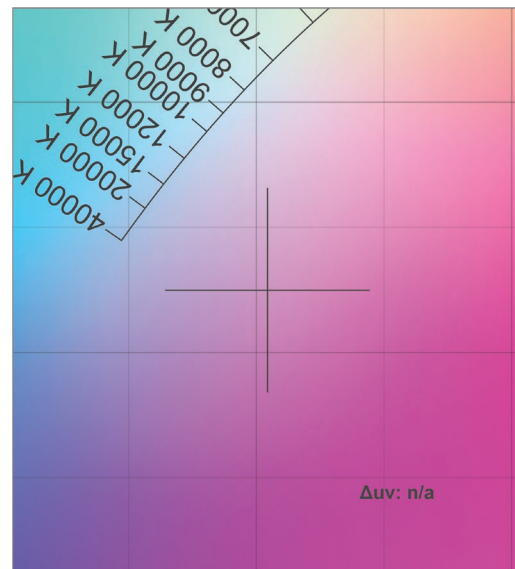
Supply Power : 45W

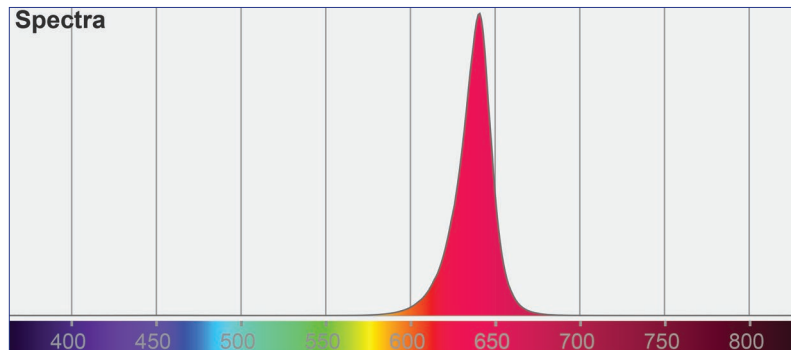
Supply Power Factor : 0.97

CIE 1931



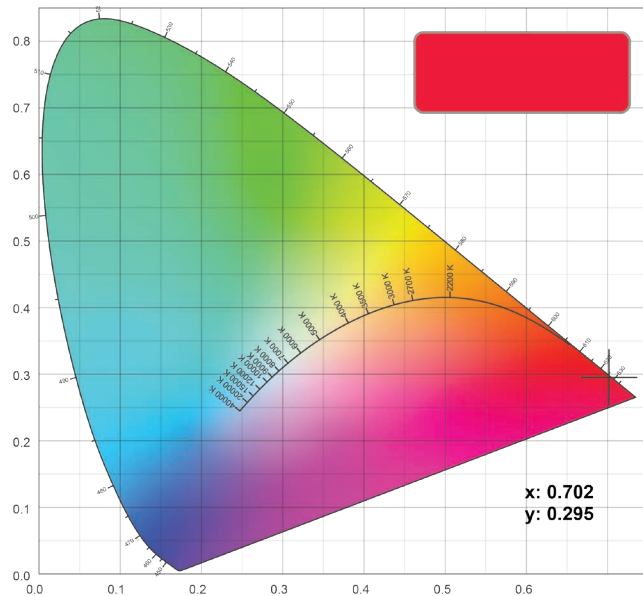
CIE 1931 Zoom



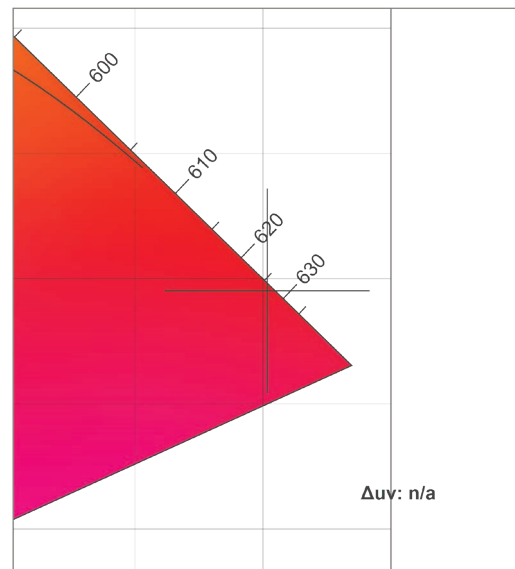


Red Lumen Output : 245 lm

CIE 1931

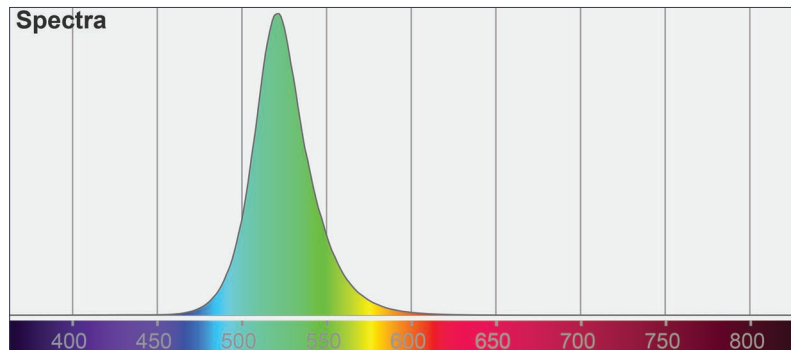


CIE 1931 Zoom



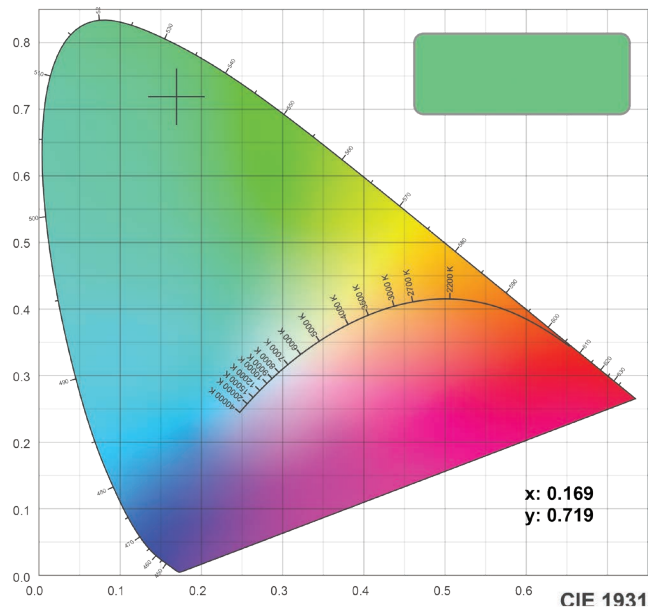
LuxEOS Beam 20 - RGBA (1700K)

Colormetrics **GREEN**

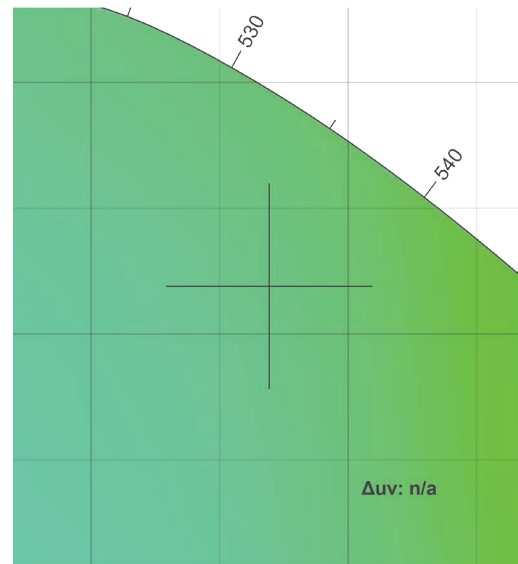


Green Lumen Output : 736 lm

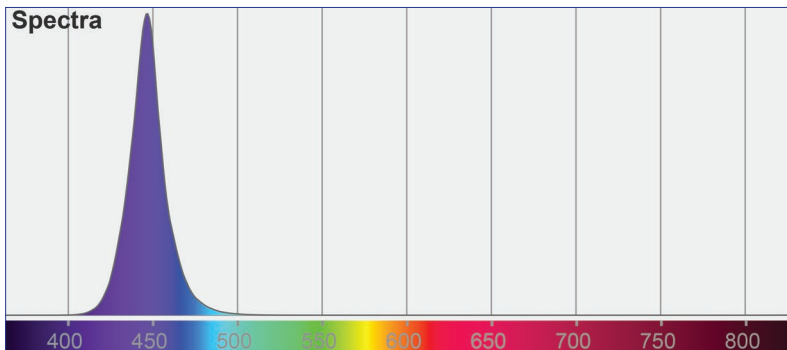
CIE 1931



CIE 1931 Zoom

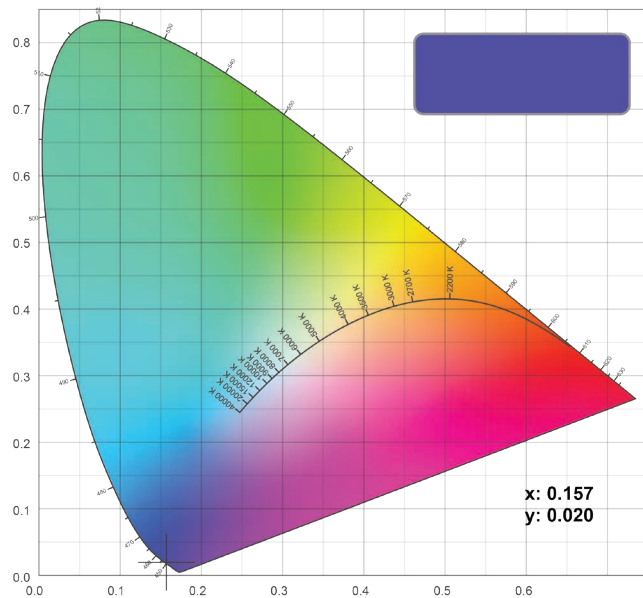


LuxEOS Beam 20 - RGBA (1700K) Colormetrics **BLUE**

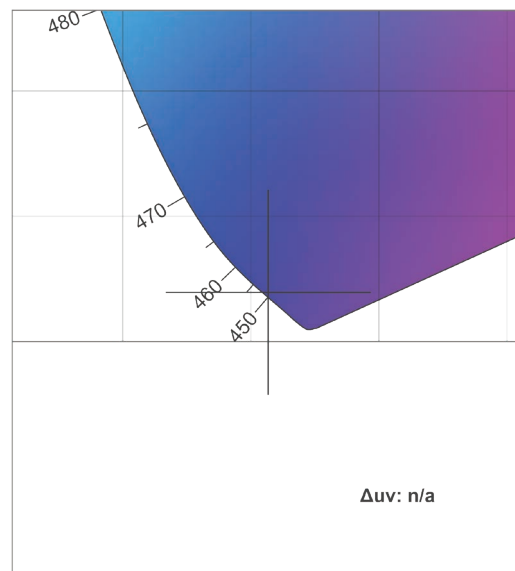


Blue Lumen Output : 100 lm

CIE 1931

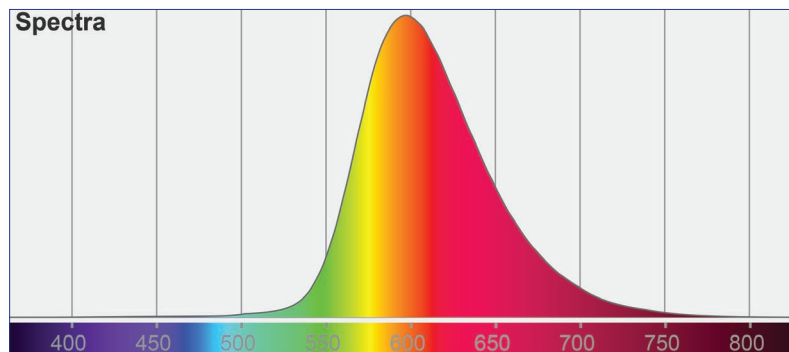


CIE 1931 Zoom



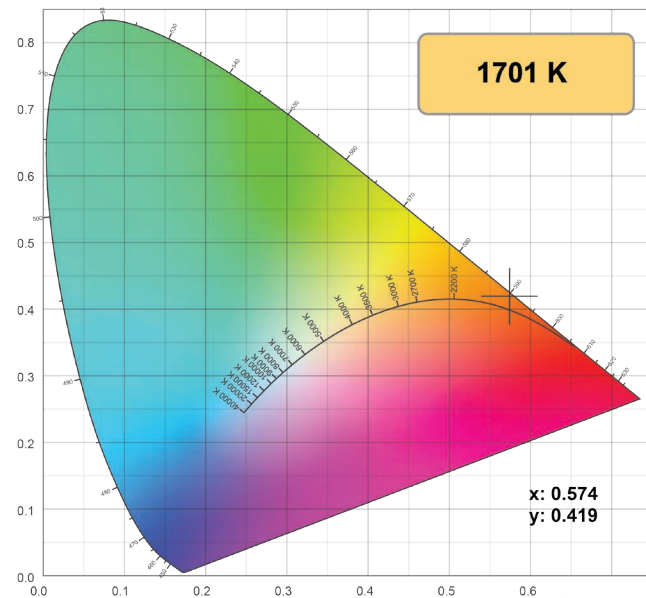
LuxEOS Beam 20 - RGBA (1700K)

Colormetrics **AMBER 1700K**

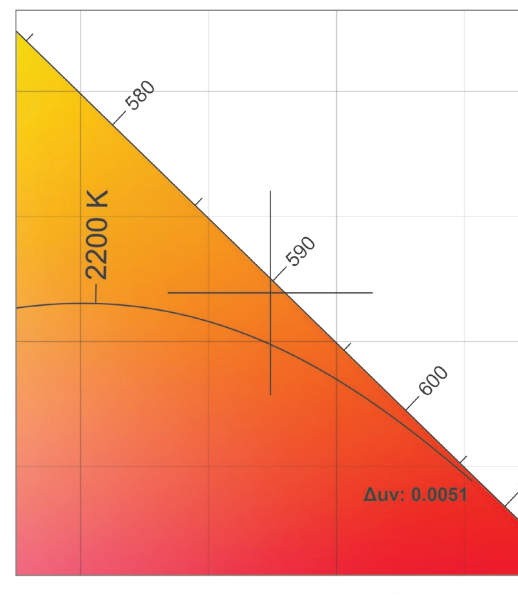


Amber 1700K Lumen Output : 609 lm

CIE 1931



CIE 1931 Zoom



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

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