

LuxEOS Beam 20 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



LuxEOS BEAM 20 RGBW (2700K) 3° 3x60°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

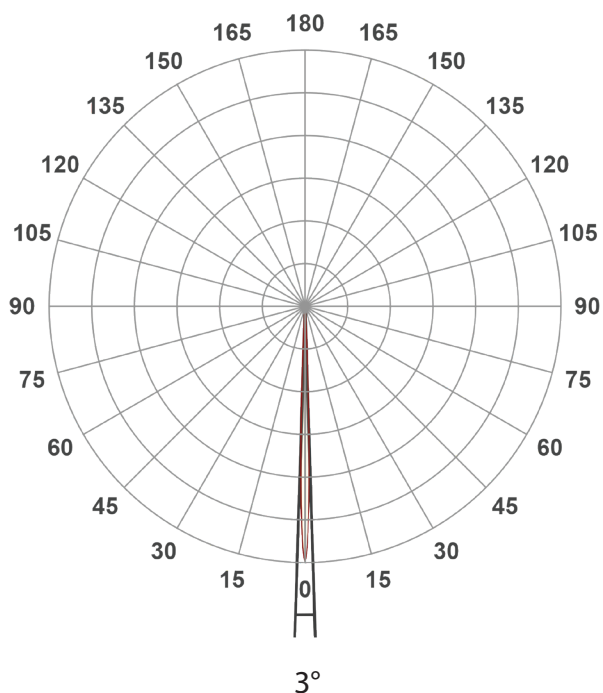
Date
Nov 2020

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

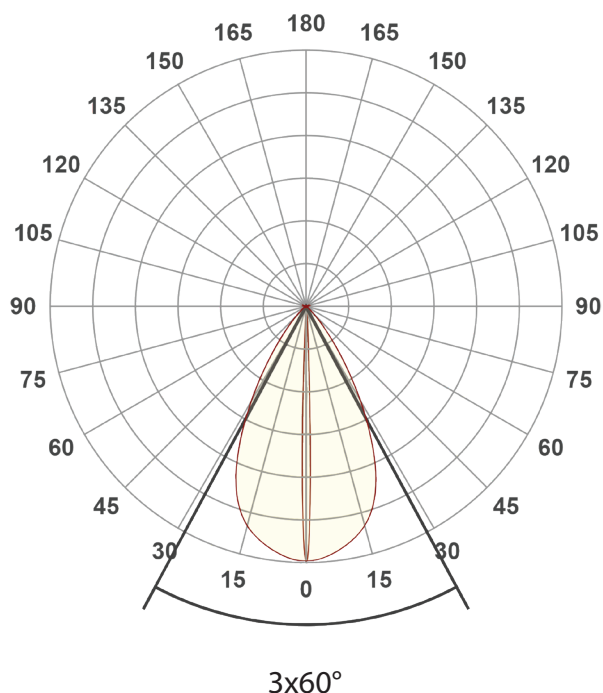
Weight
7.3kgs (16.0lbs)

Polar Distribution

3° Conical Beam (Native)

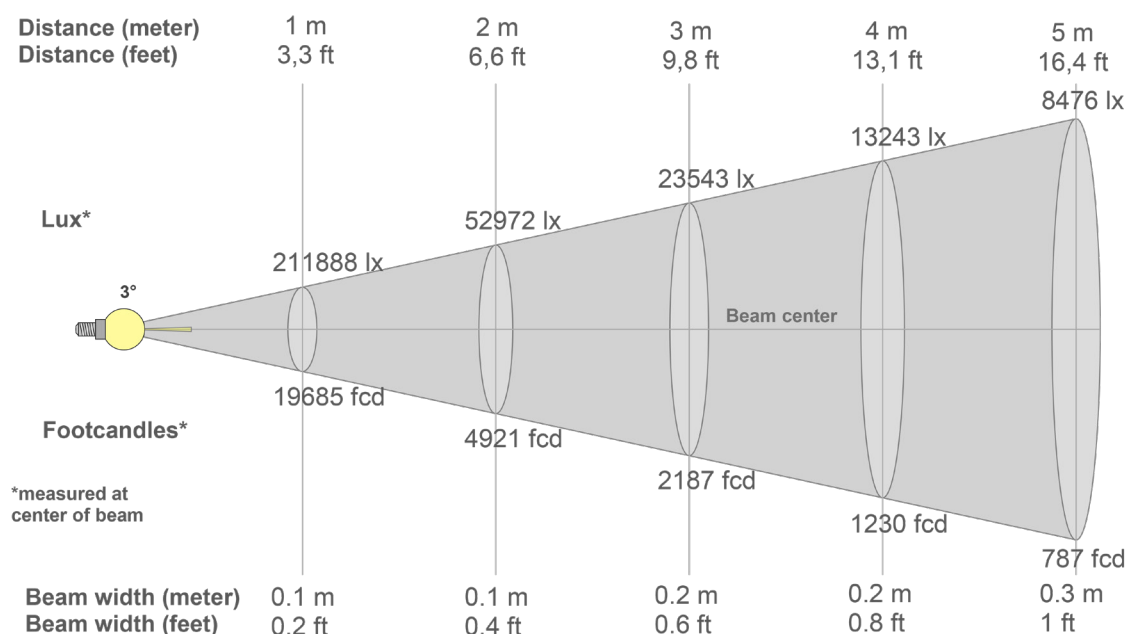


3x60° Elliptical Beam (With HBS)



LuxEOS Beam 20 - 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
211888lx	52972lx	23543lx	13243lx	8476lx	5886lx	4324lx	3311lx	2616lx	2119lx	1751lx	1471lx	1254lx	1081lx	942lx	828lx	733lx	654lx	587lx	530lx
19685fcd	4921.3fcd	2187.2fcd	1230.3fcd	787.4fcd	546.8fcd	401.7fcd	307.6fcd	243fcd	196.9fcd	162.7fcd	136.7fcd	116.5fcd	100.4fcd	87.5fcd	76.9fcd	68.1fcd	60.8fcd	54.5fcd	49.2fcd

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°
212K	172K	86K	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°
212K	172K	86K	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°
212K	172K	86K	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°
212K	172K	86K	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%

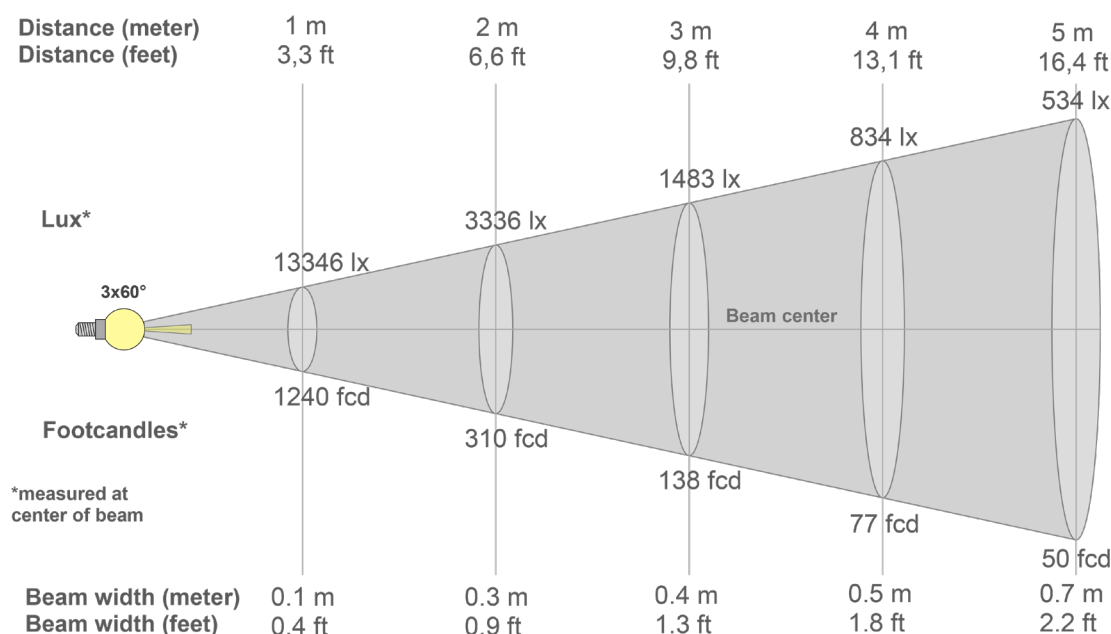
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3.5°	6.5°	9.1°	94.7%	92.4%

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LuxEOS Beam 20 - 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
13346lx	3336lx	1483lx	834lx	534lx	371lx	272lx	209lx	165lx	133lx	110lx	93lx	79lx	68lx	59lx	52lx	46lx	41lx	37lx	33lx
1239.9fc	310fc	137.8fc	77.5fc	49.6fc	34.4fc	25.3fc	19.4fc	15.3fc	12.4fc	10.2fc	8.6fc	7.3fc	6.3fc	5.5fc	4.8fc	4.3fc	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°
13.3K	11.9K	7.9K	4.3K	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°
13.3K	13.4K	13.4K	13.3K	13.2K	13.0K	12.9K	12.7K	12.5K	12.3K	12.1K	11.8K	11.5K	11.2K	10.9K	10.5K	10.1K	9.7K	9.3K	8.9K
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°
13.3K	11.9K	7.9K	4.3K	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°
13.3K	13.4K	13.4K	13.3K	13.2K	13.0K	12.9K	12.7K	12.5K	12.3K	12.1K	11.8K	11.5K	11.2K	10.9K	10.5K	10.1K	9.7K	9.3K	8.9K
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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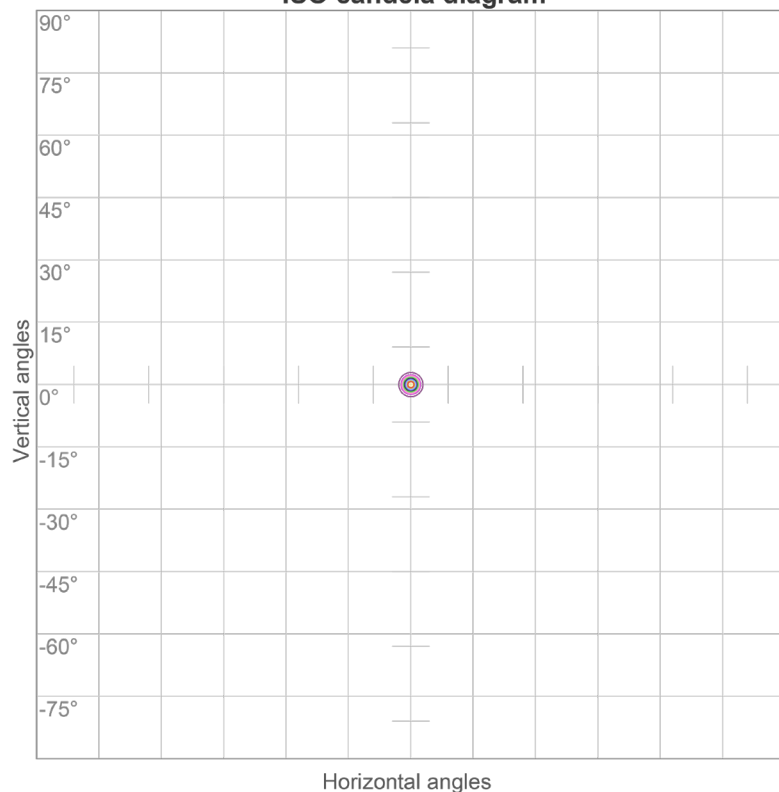
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LuxEOS Beam 20 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with native 3° Optics



ISO candela diagram



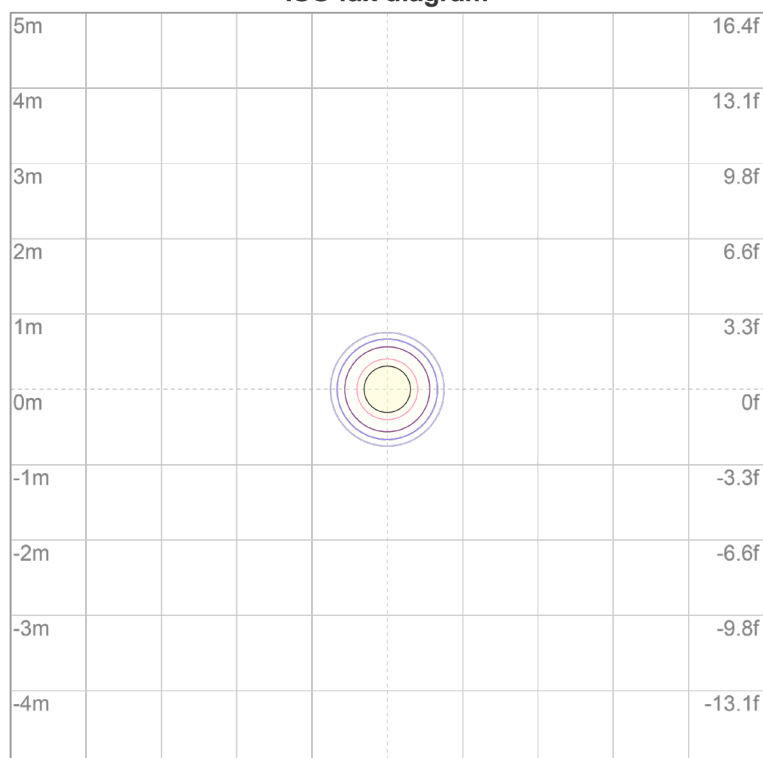
10%	21189 cd
20%	42378 cd
30%	63566 cd
40%	84755 cd
50%	105944 cd
60%	127133 cd
70%	148321 cd
80%	169510 cd
90%	190699 cd

Conditions:

Number of c-planes: 72

Candela at center: 211888 cd

ISO lux diagram



3%	63.6 lx
5%	106 lx
10%	212 lx
30%	636 lx
50%	1059 lx

Conditions:

Number of c-planes: 72

Lux at center: 2119 lx

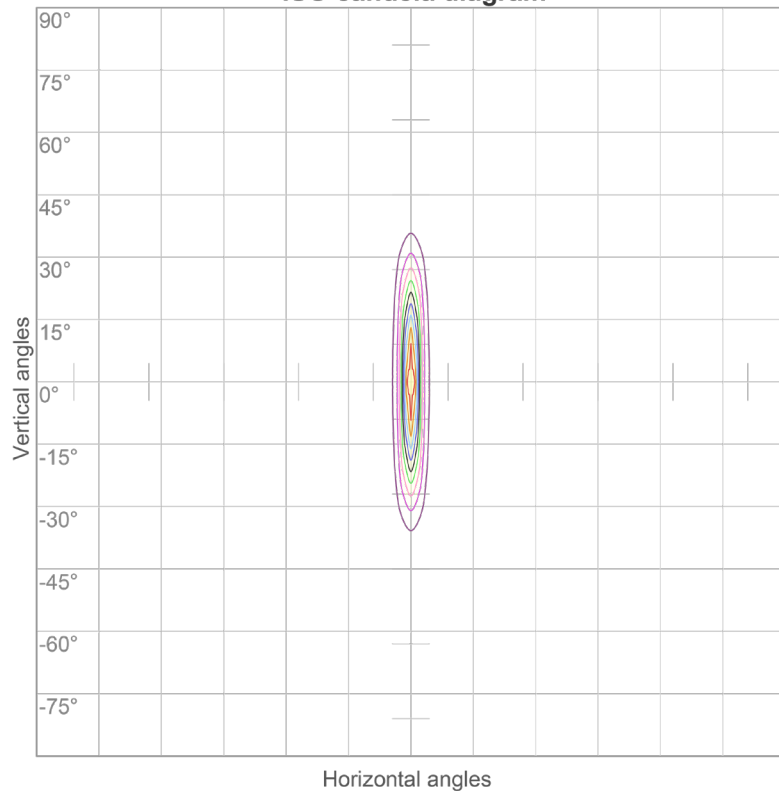
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Beam 20 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with 3x60° Optics



ISO candela diagram



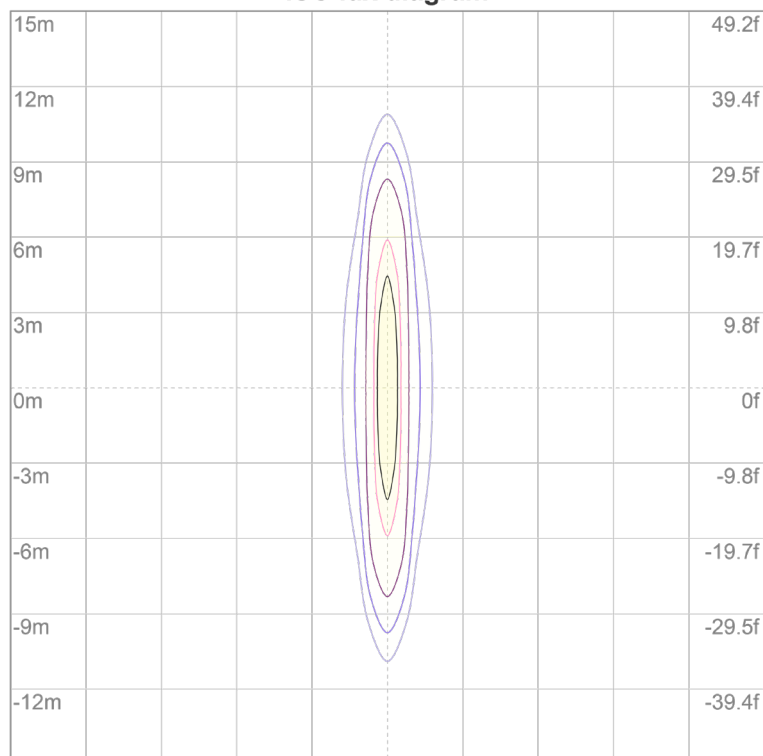
10%	1335 cd
20%	2669 cd
30%	4004 cd
40%	5338 cd
50%	6673 cd
60%	8007 cd
70%	9342 cd
80%	10677 cd
90%	12011 cd

Conditions:

Number of c-planes: 72

Candela at center: 13346 cd

ISO lux diagram



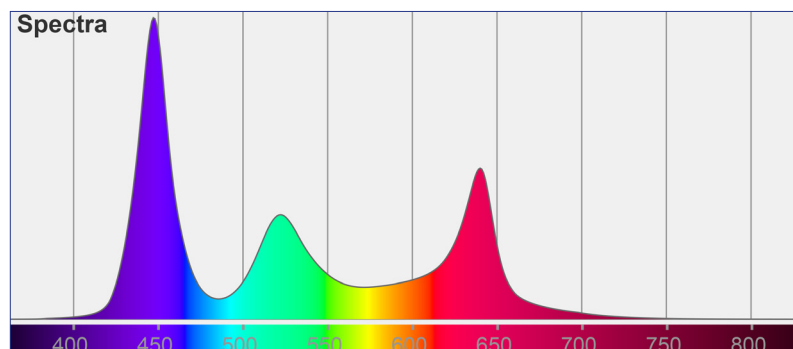
3%	4.00 lx
5%	6.67 lx
10%	13.3 lx
30%	40.0 lx
50%	66.7 lx

Conditions:

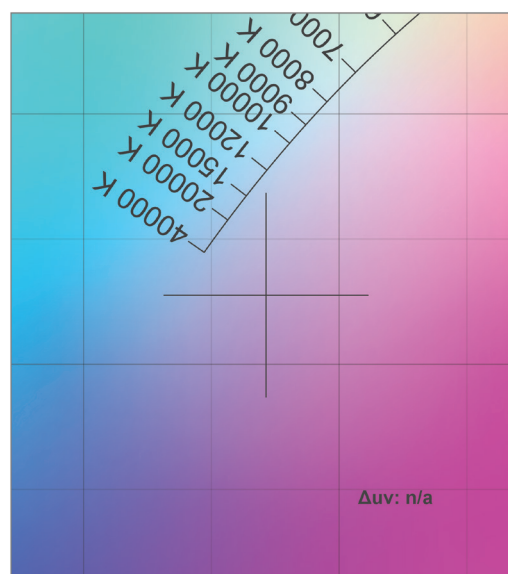
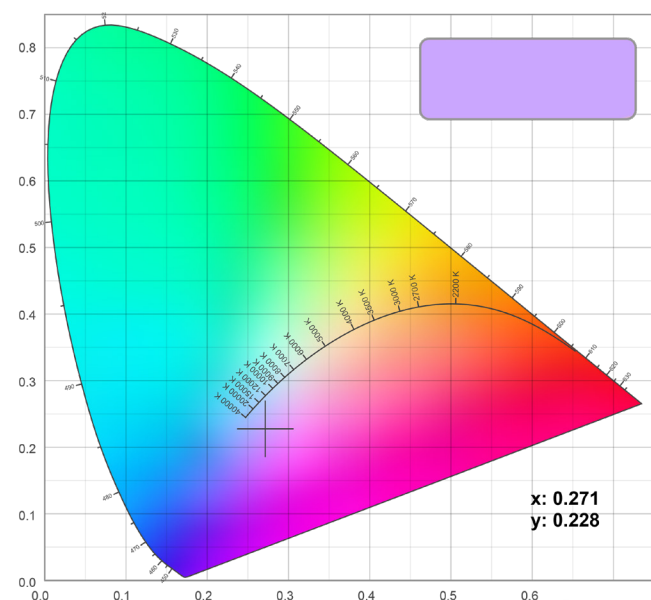
Number of c-planes: 72

Lux at center: 133 lx

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

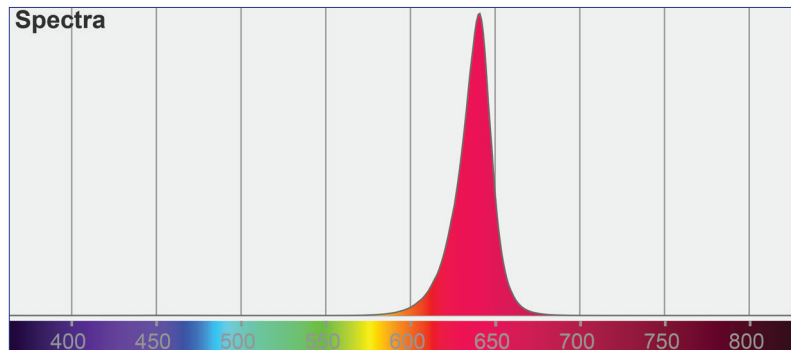
Colormetrics **RGBW**

Supply Power Factor : 0.97



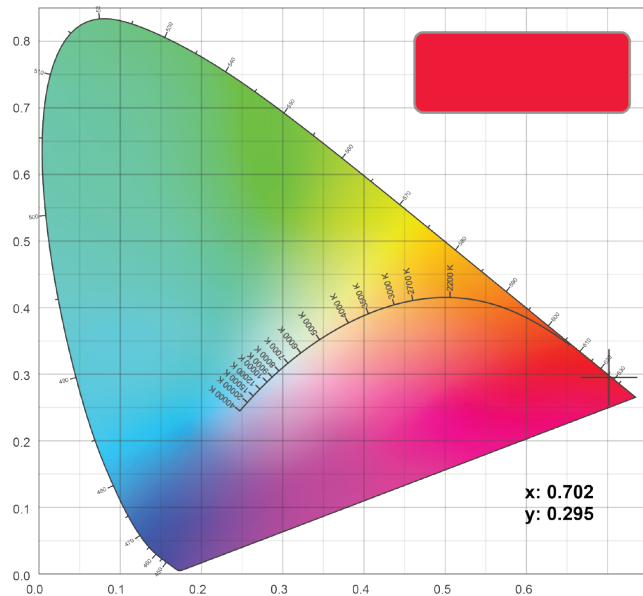
LuxEOS Beam 20 - RGBW (2700K)

Colormetrics **RED**

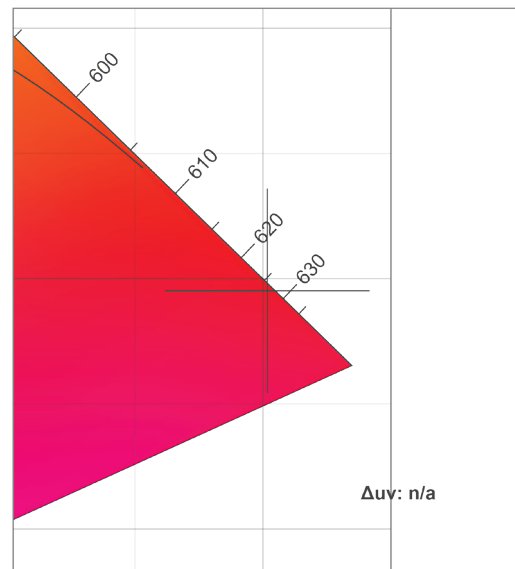


Red Lumen Output : 245 lm

CIE 1931

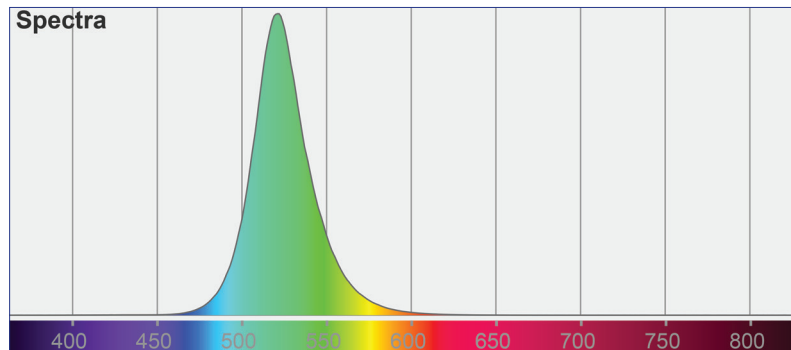


CIE 1931 Zoom



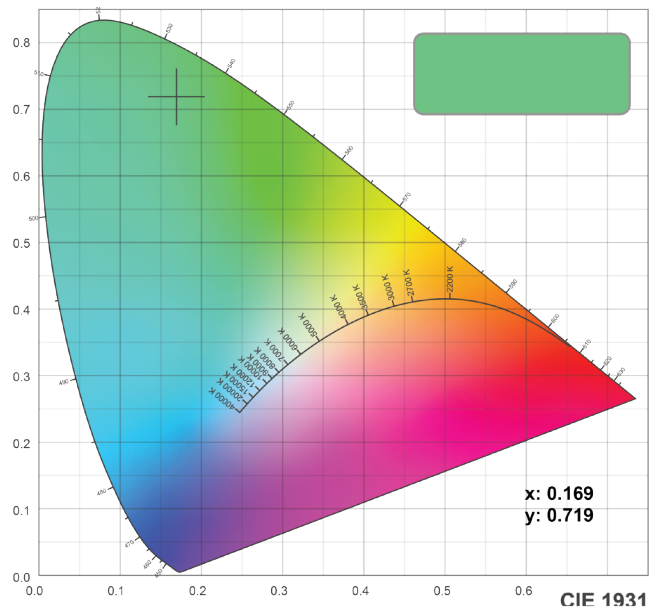
LuxEOS Beam 20 - RGBW (2700K)

Colormetrics **GREEN**

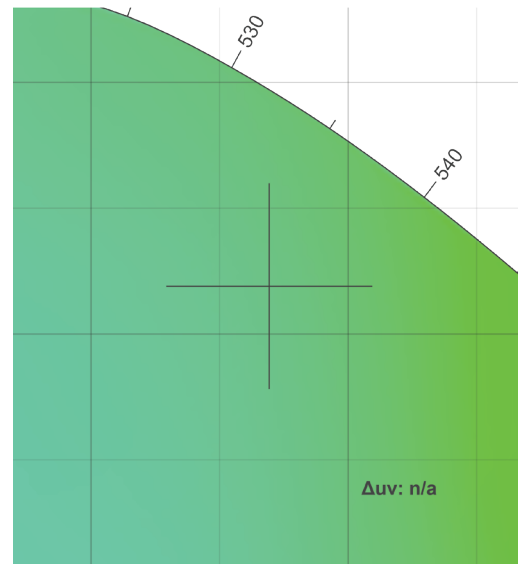


Green Lumen Output : 736 lm

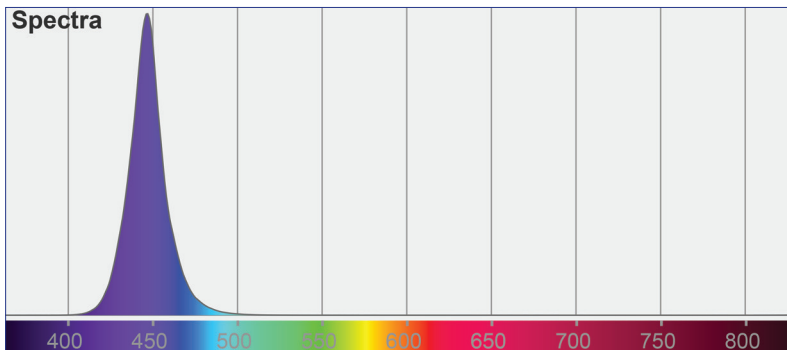
CIE 1931



CIE 1931 Zoom

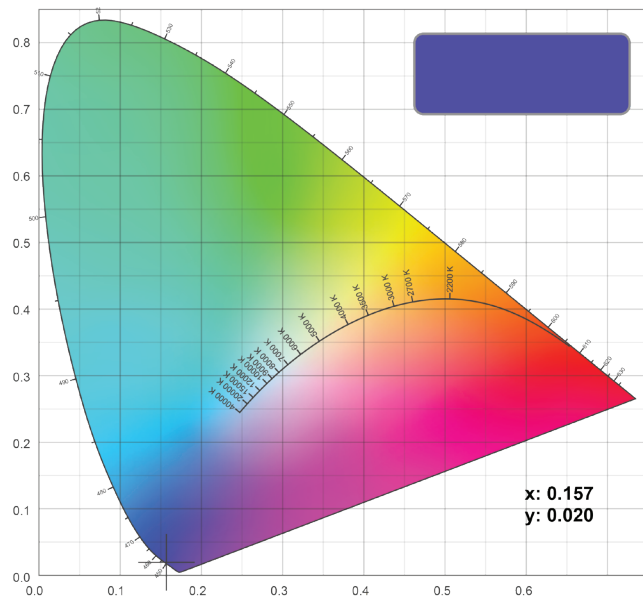


LuxEOS Beam 20 - RGBW (2700K) Colormetrics **BLUE**

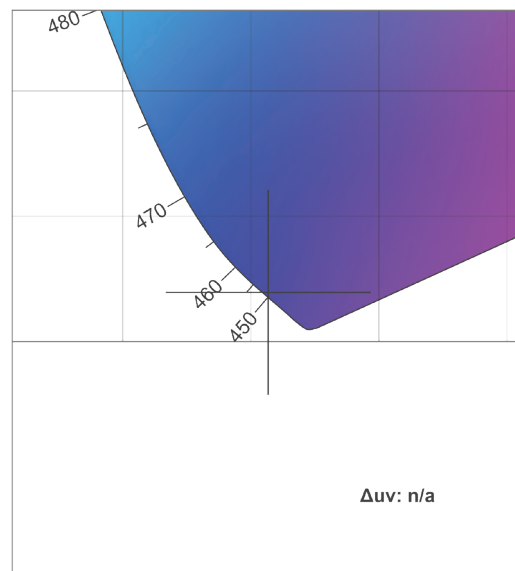


Blue Lumen Output : 100 lm

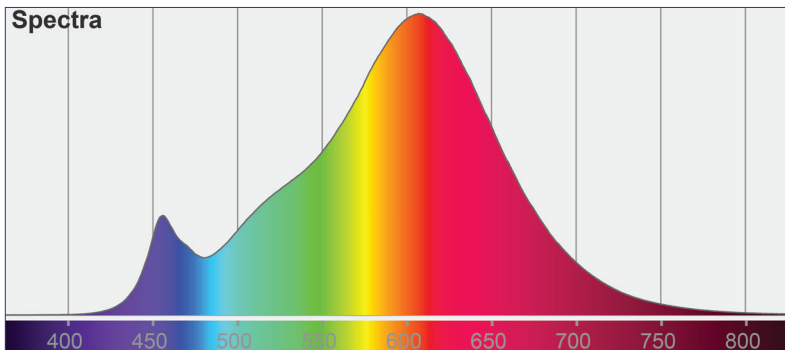
CIE 1931



CIE 1931 Zoom

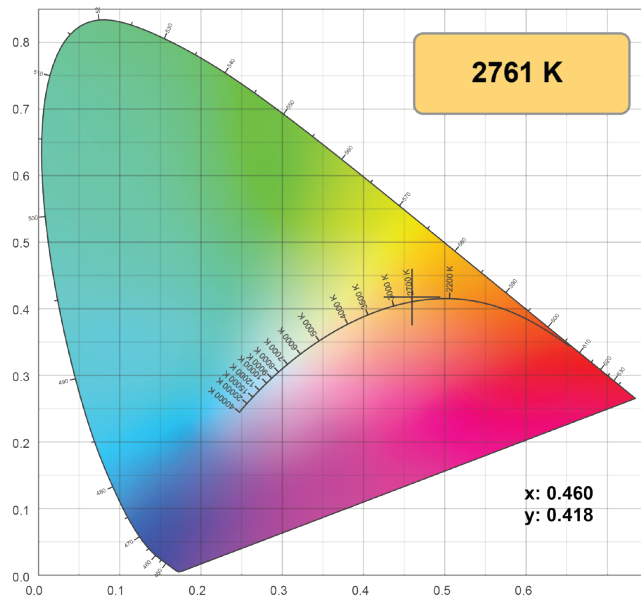


LuxEOS Beam 20 - RGBW (2700K) Colormetrics **White 2700K**

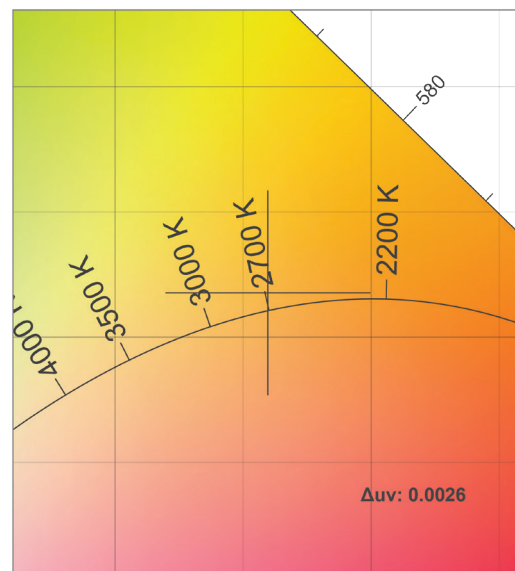


White 2700K Lumen Output : 688 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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