

## LuxEOS Beam 20 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



### LuxEOS BEAM 20 RGBW (5700K) 3° 3x60°

Tested By  
DW Windsor Group Laboratory  
Hoddesdon  
UK

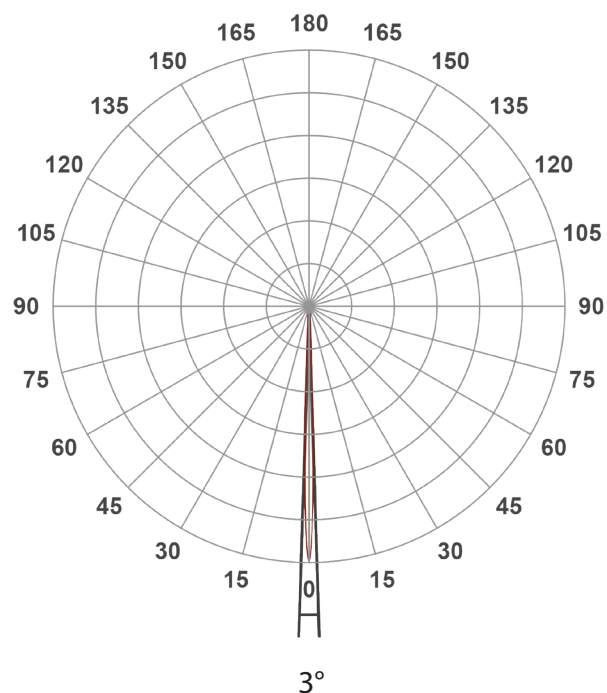
Date  
Nov 2020

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

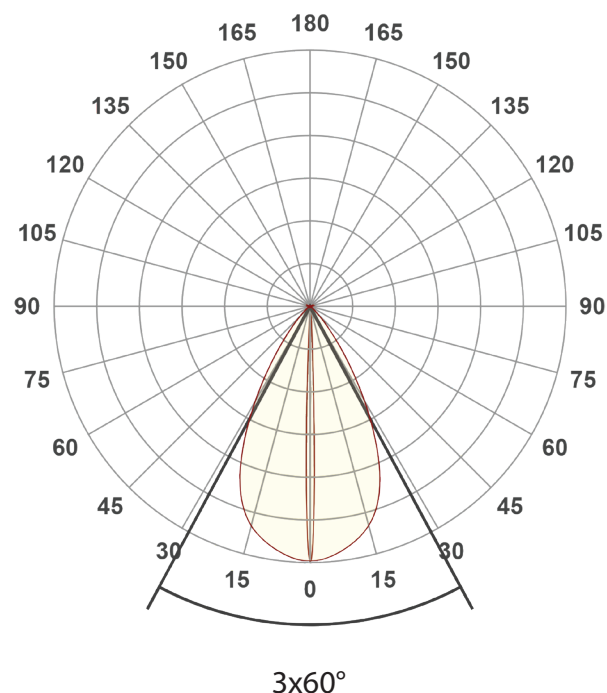
Weight  
7.3kgs (16.0lbs)

### Polar Distribution

#### 3° Conical Beam (Native)

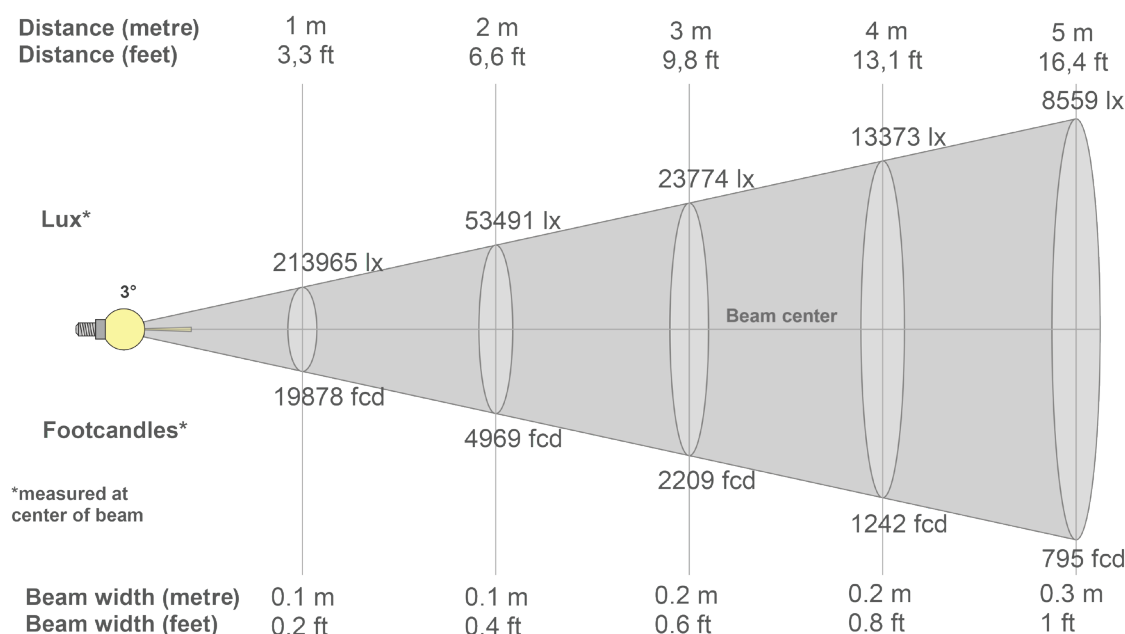


#### 3x60° Elliptical Beam (With HBS)



## LuxEOS BEAM 20 - RGBW (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
213965lx	53491lx	23774lx	13373lx	8559lx	5943lx	4367lx	3343lx	2642lx	2140lx	1768lx	1486lx	1266lx	1092lx	951lx	836lx	740lx	660lx	593lx	535lx
19878fcd	4969.5fcd	2208.7fcd	1242.4fcd	795.1fcd	552.2fcd	405.7fcd	310.6fcd	245.4fcd	198.8fcd	164.3fcd	138fcd	117.6fcd	101.4fcd	88.3fcd	77.6fcd	68.8fcd	61.4fcd	55.1fcd	49.7fcd

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°
214K	174K	87K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	1K	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°
214K	174K	87K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	1K	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°
214K	174K	87K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	1K	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°
214K	174K	87K	28K	9K	4K	2K	2K	1K	1K	1K	1K	1K	1K	1K	1K	1K	0K	0K	0K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

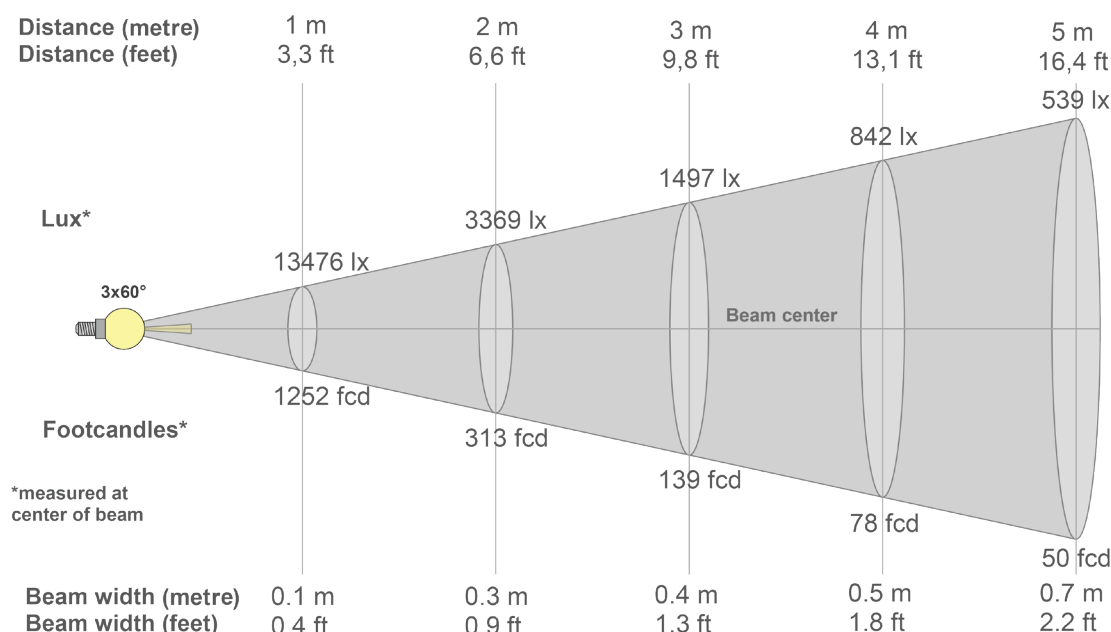
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3.5°	6.5°	9.1°	94.7%	92.4%

### DW Windsor

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## LuxEOS BEAM 20 - 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
13476lx	3369lx	1497lx	842lx	539lx	374lx	275lx	211lx	166lx	135lx	111lx	94lx	80lx	69lx	60lx	53lx	47lx	42lx	37lx	34lx
1252fcd	313fcd	139.1fcd	78.2fcd	50.1fcd	34.8fcd	25.6fcd	19.6fcd	15.5fcd	12.5fcd	10.3fcd	8.7fcd	7.4fcd	6.4fcd	5.6fcd	4.9fcd	4.3fcd	3.9fcd	3.5fcd	3.1fcd

### 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°
13.5K	12.1K	8.0K	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°
13.5K	13.6K	13.5K	13.4K	13.3K	13.2K	13.0K	12.8K	12.7K	12.4K	12.2K	11.9K	11.6K	11.3K	11.0K	10.6K	10.2K	9.8K	9.4K	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°
13.5K	12.1K	8.0K	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°
13.5K	13.6K	13.5K	13.4K	13.3K	13.2K	13.0K	12.8K	12.7K	12.4K	12.2K	11.9K	11.6K	11.3K	11.0K	10.6K	10.2K	9.8K	9.4K	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%

### DW Windsor

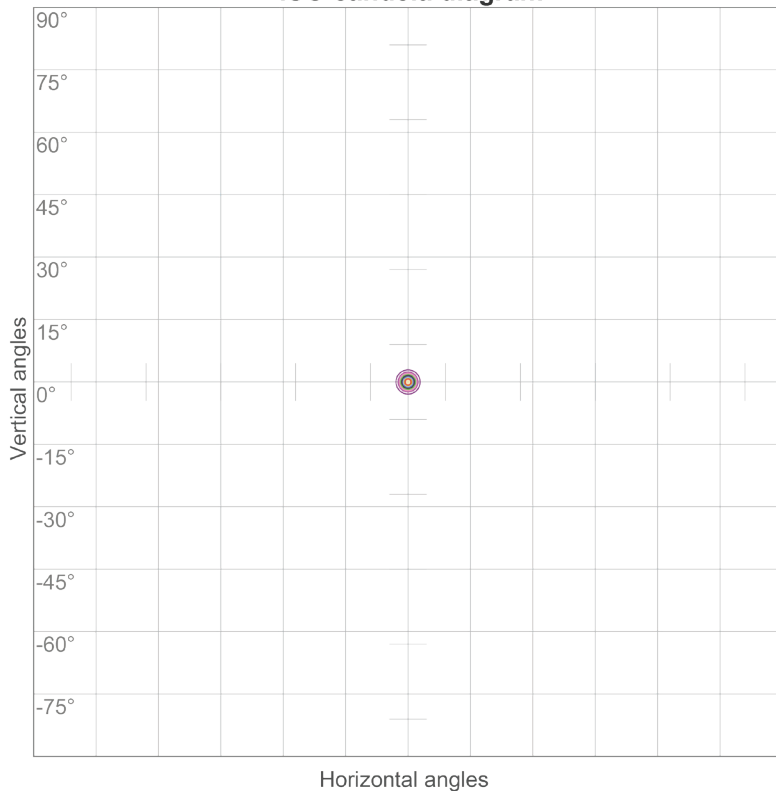
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## LuxEOS BEAM 20 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with native 3° Optics



ISO candela diagram



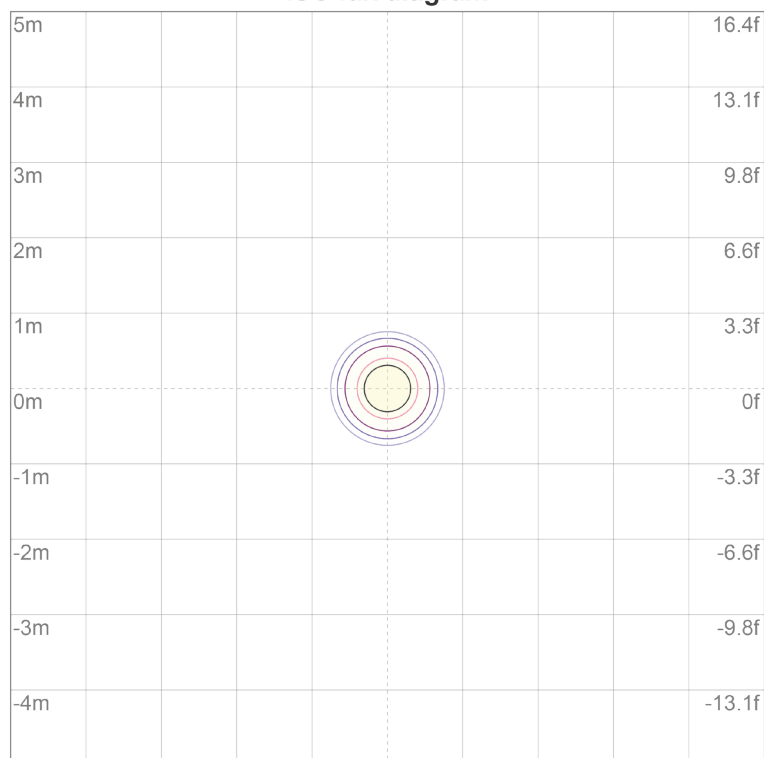
10%	21396 cd
20%	42793 cd
30%	64189 cd
40%	85586 cd
50%	106982 cd
60%	128379 cd
70%	149775 cd
80%	171172 cd
90%	192568 cd

Conditions:

Number of c-planes: 72

Candela at center: 213965 cd

ISO lux diagram



3%	64.2 lx
5%	107 lx
10%	214 lx
30%	642 lx
50%	1070 lx

Conditions:

Number of c-planes: 72

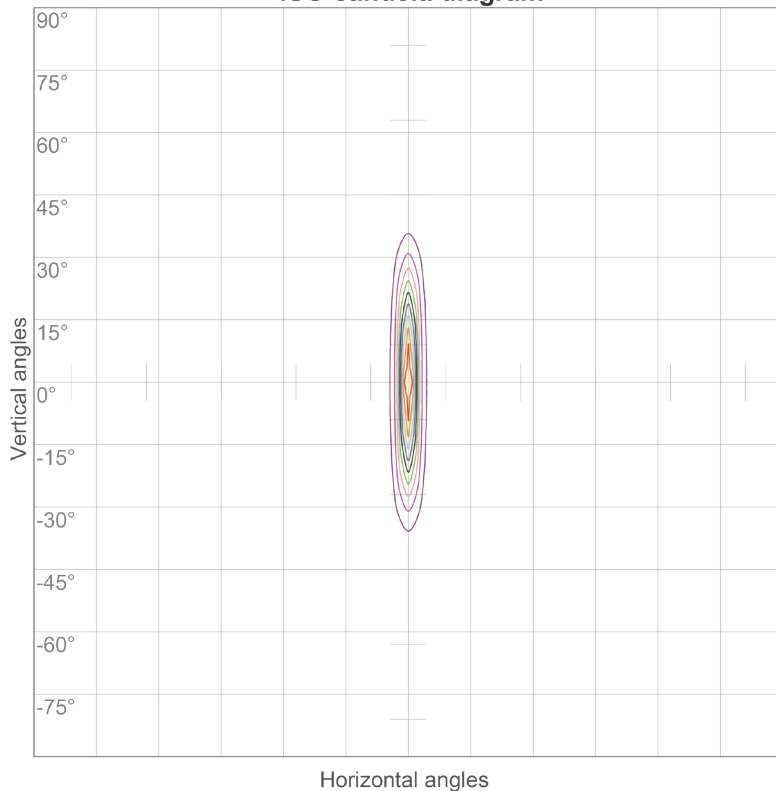
Lux at center: 2140 lx

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





ISO candela diagram



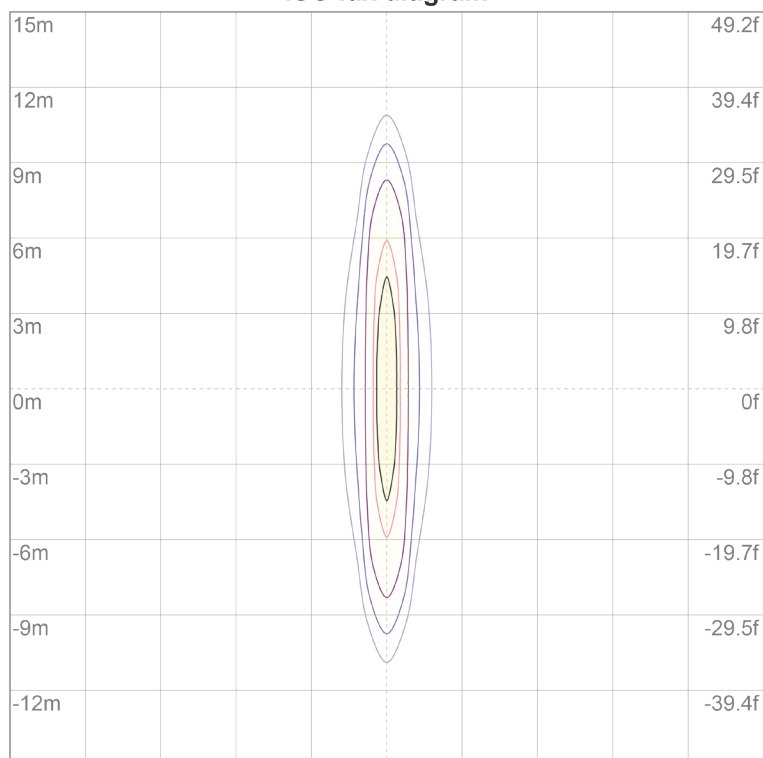
10%	1348 cd
20%	2695 cd
30%	4043 cd
40%	5390 cd
50%	6738 cd
60%	8086 cd
70%	9433 cd
80%	10781 cd
90%	12129 cd

Conditions:

Number of c-planes: 72

Candela at center: 13476 cd

ISO lux diagram



3%	4.04 lx
5%	6.74 lx
10%	13.5 lx
30%	40.4 lx
50%	67.4 lx

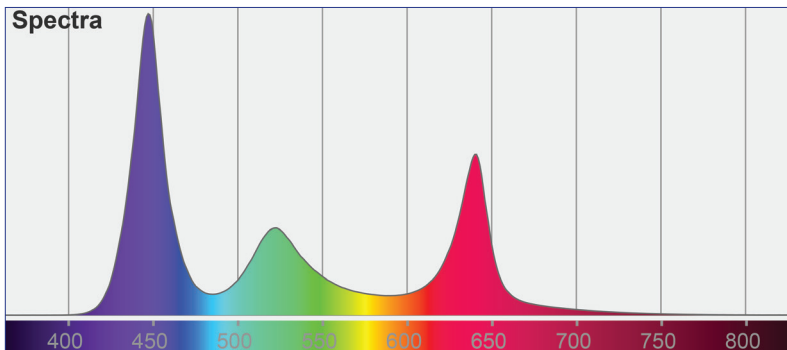
Conditions:

Number of c-planes: 72

Lux at center: 135 lx

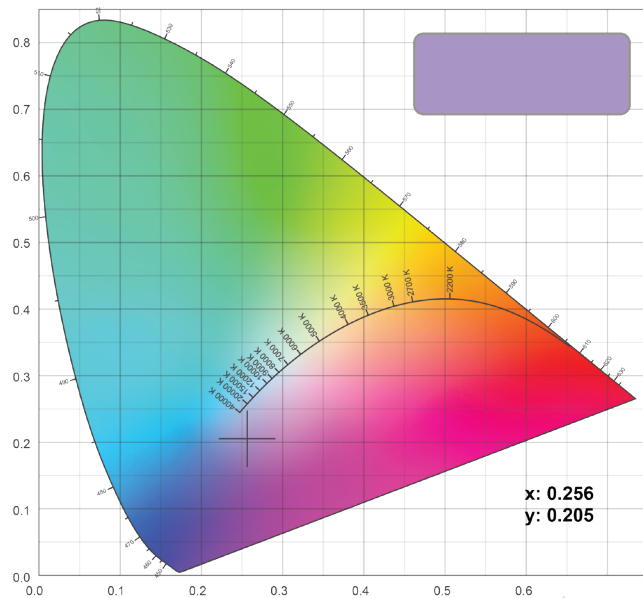
*Lux distribution on a surface  
when lamp is mounted at 10  
meters from the surface.*

## LuxEOS BEAM 20 - RGBW (5700K) Colormetrics RGBW

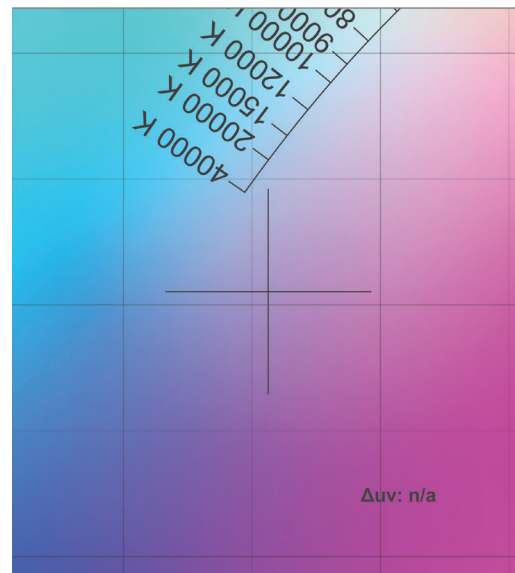


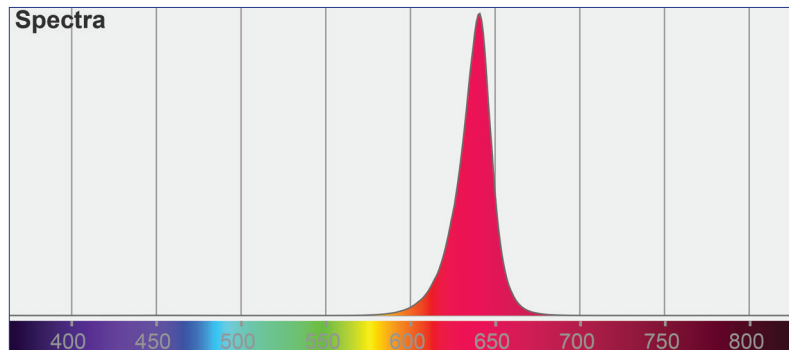
Total Lumen Output (Native) : 1442 lm  
Efficacy : 32 lm/W  
Voltage : 240V  
Supply Power : 45W  
Supply Power Factor : 0.97

CIE 1931



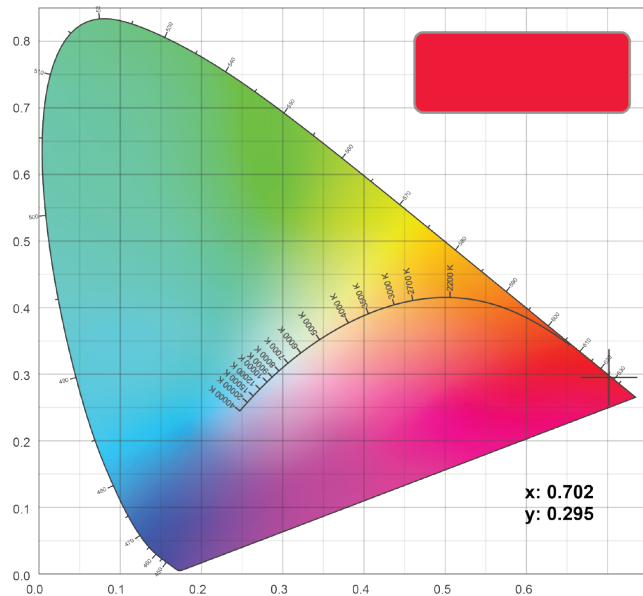
CIE 1931 Zoom



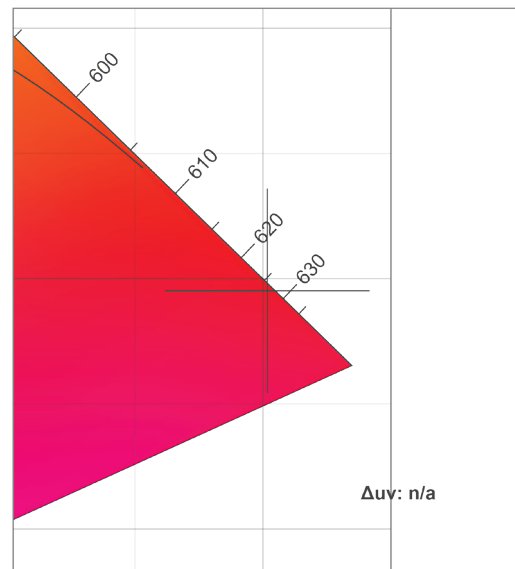


Red Lumen Output : 245 lm

CIE 1931

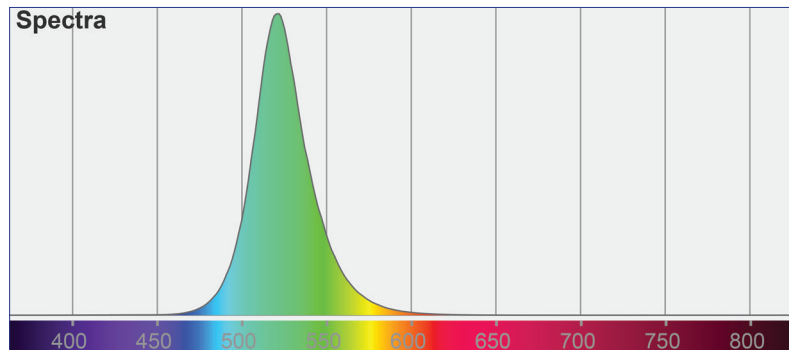


CIE 1931 Zoom



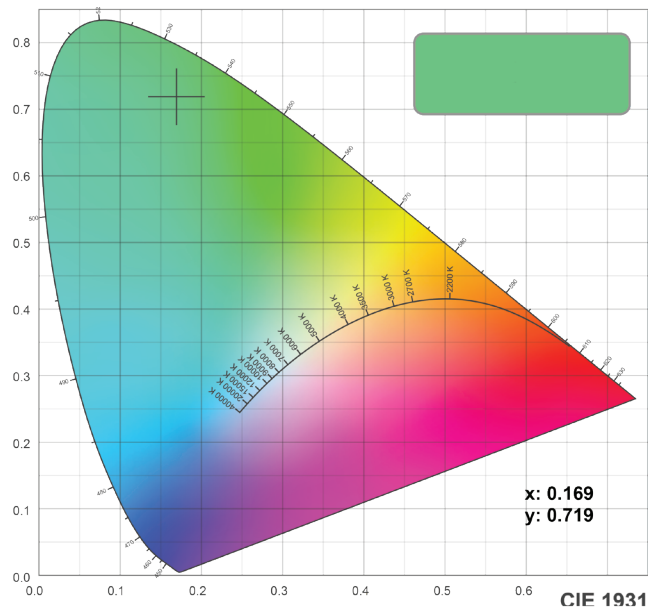
## LuxEOS BEAM 20 - RGBW (5700K)

Colormetrics **GREEN**

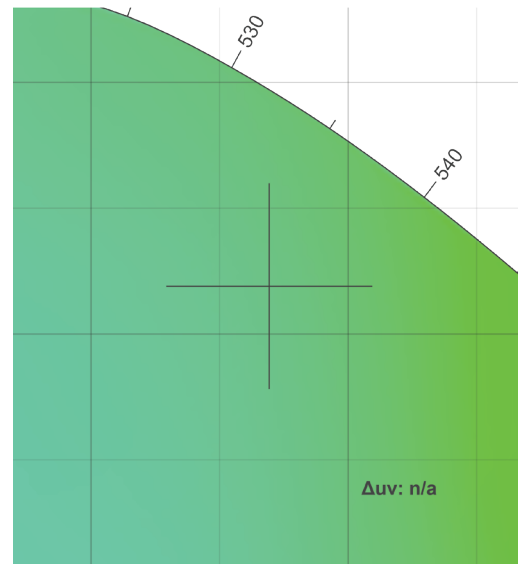


Green Lumen Output : 736 lm

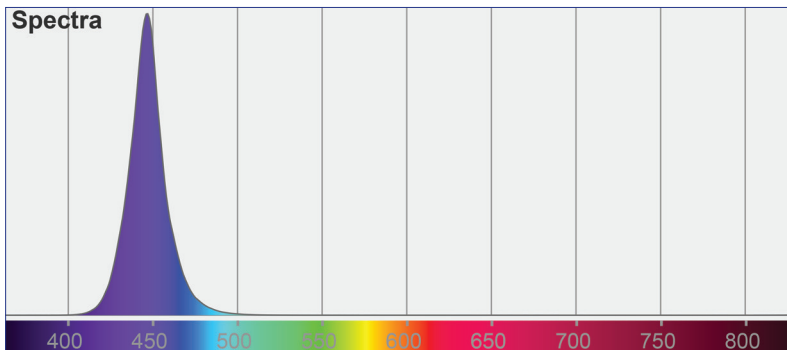
CIE 1931



CIE 1931 Zoom

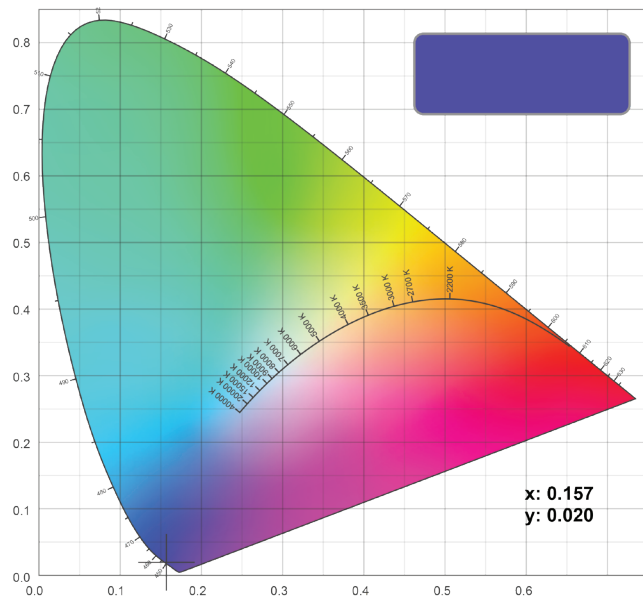


## LuxEOS BEAM 20 - RGBW (5700K) Colormetrics **BLUE**

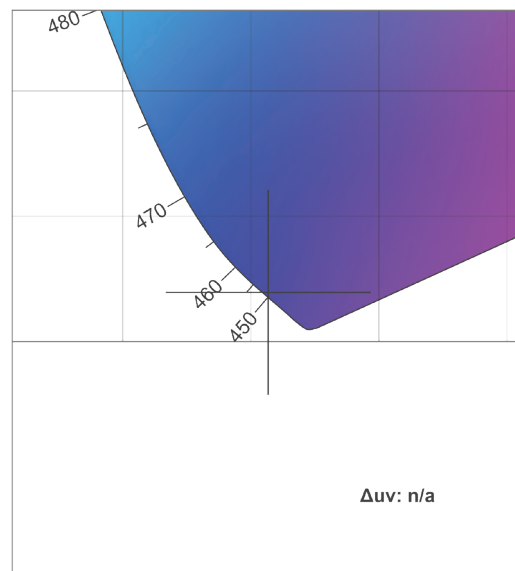


Blue Lumen Output : 100 lm

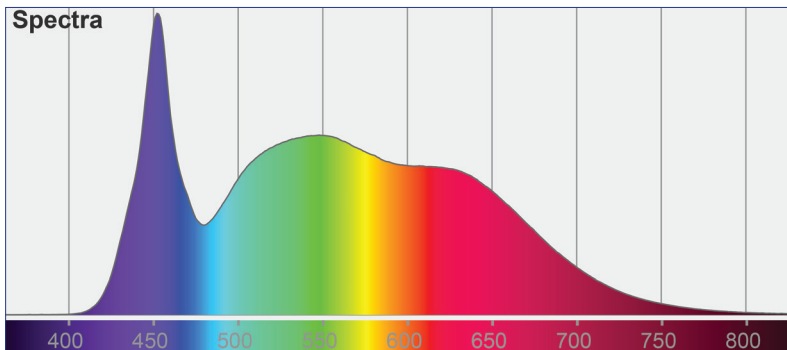
CIE 1931



CIE 1931 Zoom

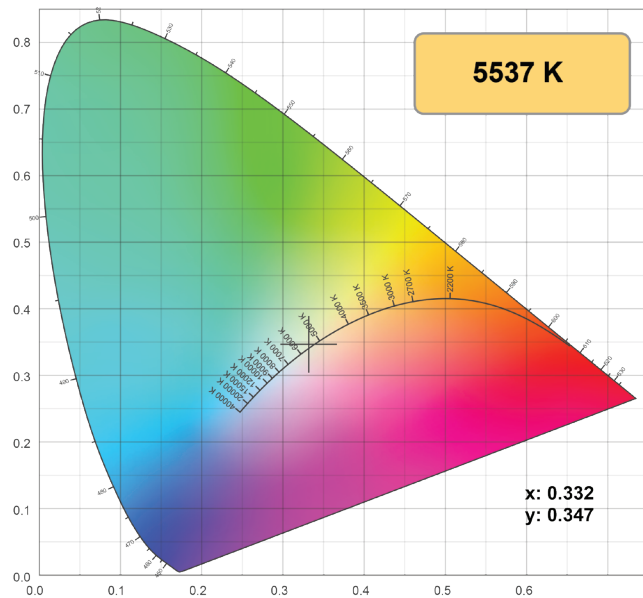


## LuxEOS BEAM 20 - RGBW (5700K) Colormetrics **WHITE**

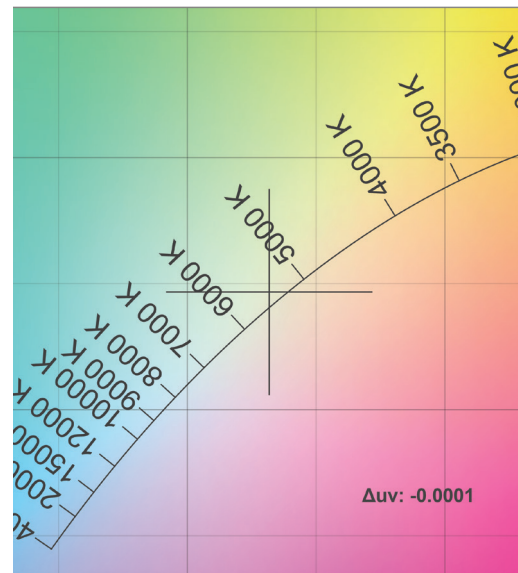


White 5700K Lumen Output : 692 lm  
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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