

LuxEOS Beam 80 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



LuxEOS BEAM 80 RGBA (1700K) 3° 3x60°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

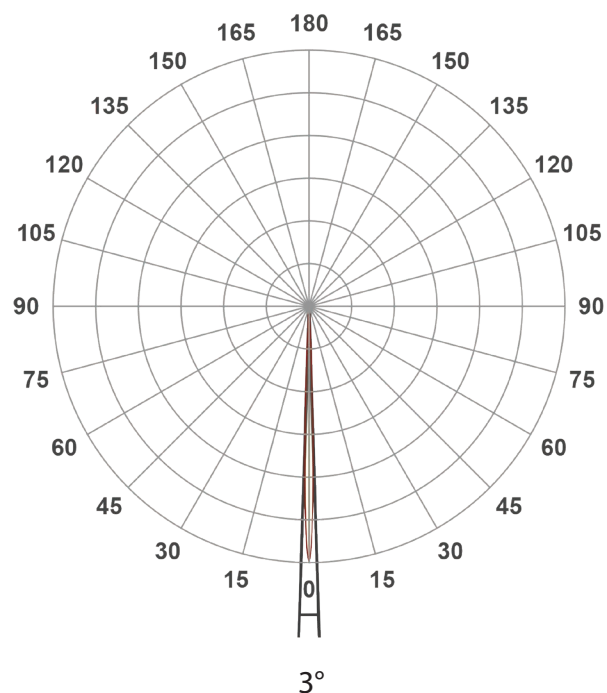
Date
Nov 2020

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

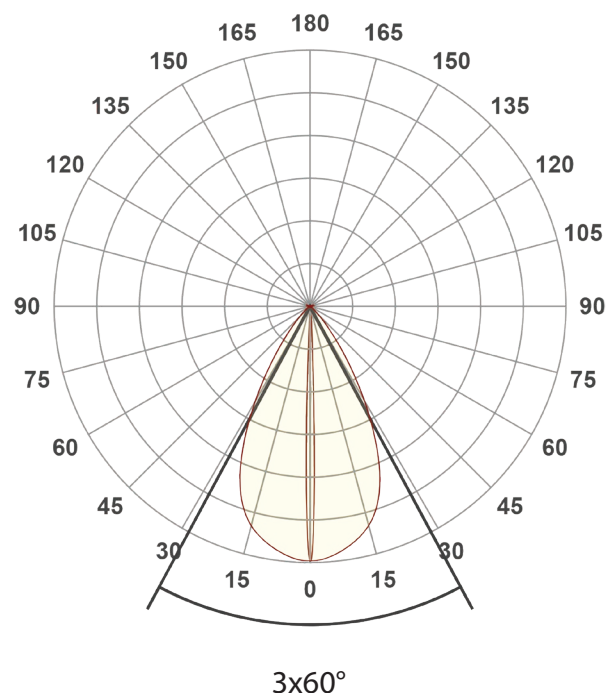
Weight
23.4 kgs (51.6lbs)

Polar Distribution

3° Conical Beam (Native)

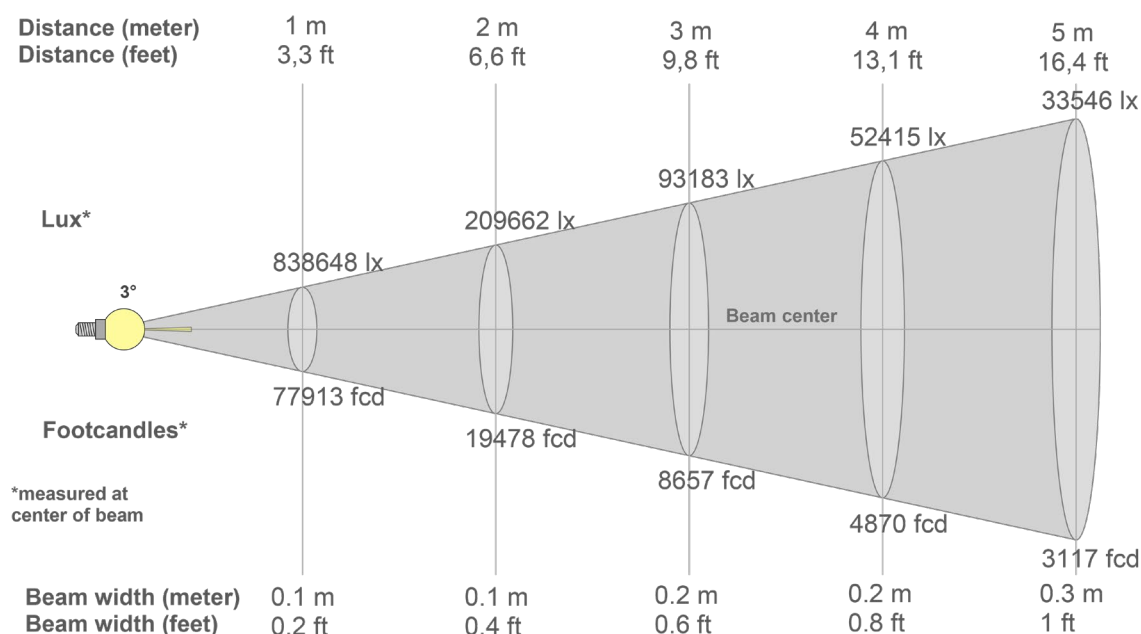


3x60° Elliptical Beam (With HBS)



LuxEOS Beam 80 - 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
838648lx	209662lx	93183lx	52415lx	33546lx	23296lx	17115lx	13104lx	10354lx	8386lx	6931lx	5824lx	4962lx	4279lx	3727lx	3276lx	2902lx	2588lx	2323lx	2097lx
77912.9fcd	19478.2fcd	8657fcd	4869.6fcd	3116.5fcd	2164.2fcd	1590.1fcd	1217.4fcd	961.9fcd	779.1fcd	643.9fcd	541.1fcd	461fcd	397.5fcd	346.3fcd	304.3fcd	269.6fcd	240.5fcd	215.8fcd	194.8fcd

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°
839K	682K	340K	112K	34K	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°
839K	682K	340K	112K	34K	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°
839K	682K	340K	112K	34K	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°
839K	682K	340K	112K	34K	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%

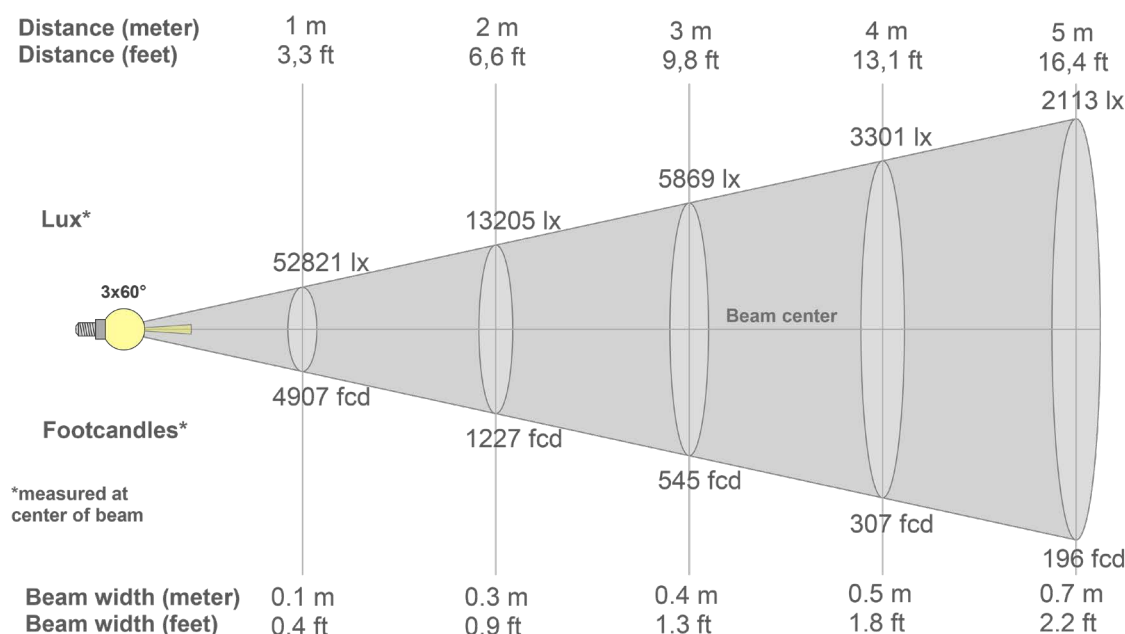
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3.5°	6.5°	9.1°	94.7%	92.4%

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LuxEOS Beam 80 - 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
52821lx	13205lx	5869lx	3301lx	2113lx	1467lx	1078lx	825lx	652lx	528lx	437lx	367lx	313lx	269lx	235lx	206lx	183lx	163lx	146lx	132lx
4907.2fc	1226.8fc	545.2fc	306.7fc	196.3fc	136.3fc	100.1fc	76.7fc	60.6fc	49.1fc	40.6fc	34.1fc	29fc	25fc	21.8fc	19.2fc	17fc	15.1fc	13.6fc	12.3fc

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°
52.8K	47.3K	31.3K	16.9K	8.6K	5.1K	3.6K	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°
52.8K	53.2K	53.0K	52.6K	52.1K	51.6K	51.0K	50.4K	49.6K	48.7K	47.8K	46.7K	45.6K	44.3K	43.0K	41.5K	40.0K	38.4K	36.8K	35.1K
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°
52.8K	47.3K	31.3K	16.9K	8.6K	5.1K	3.6K	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°
52.8K	53.2K	53.0K	52.6K	52.1K	51.6K	51.0K	50.4K	49.6K	48.7K	47.8K	46.7K	45.6K	44.3K	43.0K	41.5K	40.0K	38.4K	36.8K	35.1K
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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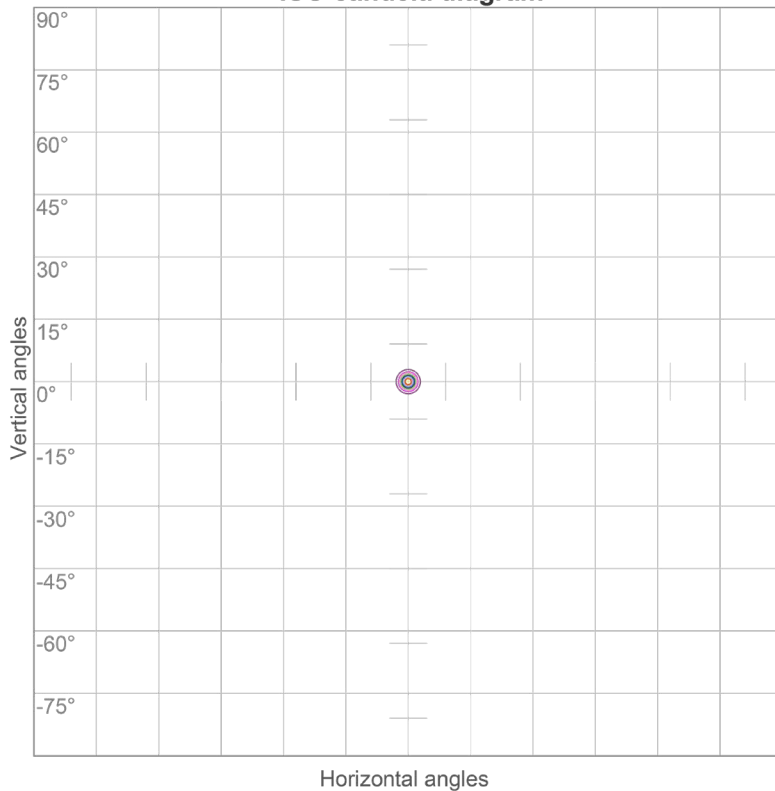
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LuxEOS Beam 80 - RGBA (1700K)

ISO Candela & ISO Lux diagrams with native 3° Optics



ISO candela diagram



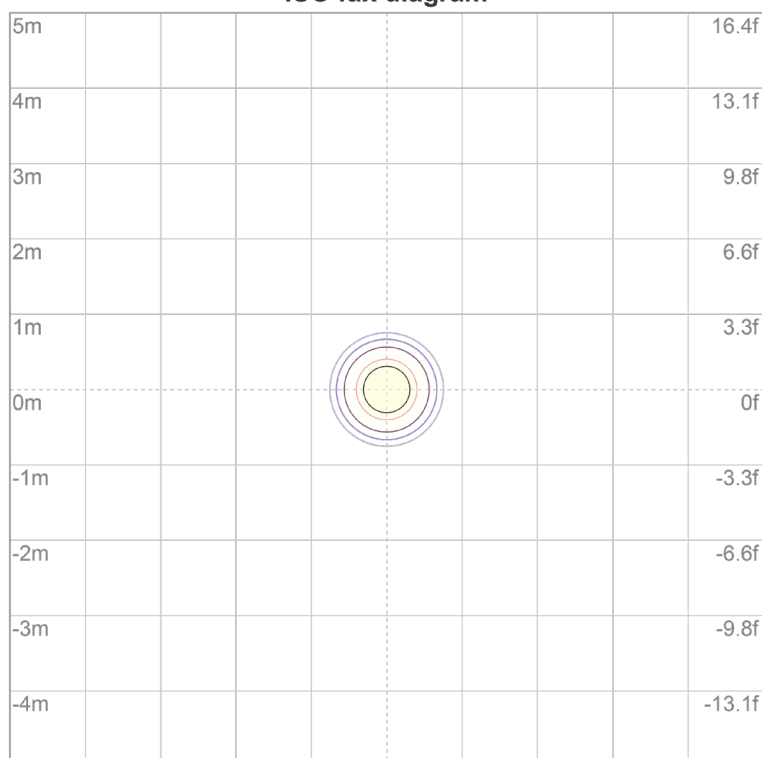
10%	83865 cd
20%	167730 cd
30%	251594 cd
40%	335459 cd
50%	419324 cd
60%	503189 cd
70%	587053 cd
80%	670918 cd
90%	754783 cd

Conditions:

Number of c-planes: 72

Candela at center: 838648 cd

ISO lux diagram



3%	252 lx
5%	419 lx
10%	839 lx
30%	2516 lx
50%	4193 lx

Conditions:

Number of c-planes: 72

Lux at center: 8386 lx

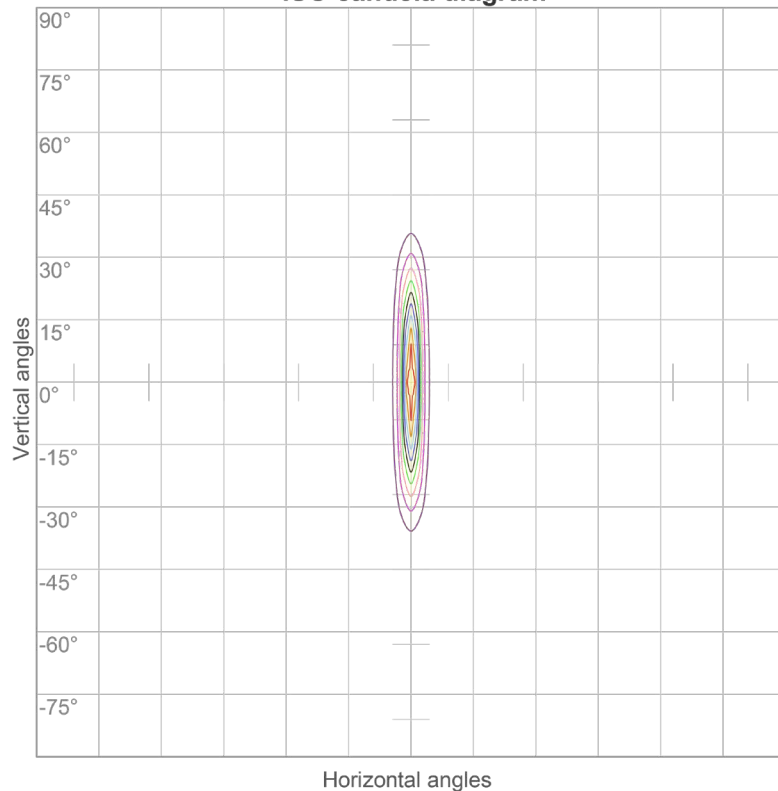
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Beam 80 - RGBA (1700K)

ISO Candela & ISO Lux diagrams with 3x60° Optics



ISO candela diagram



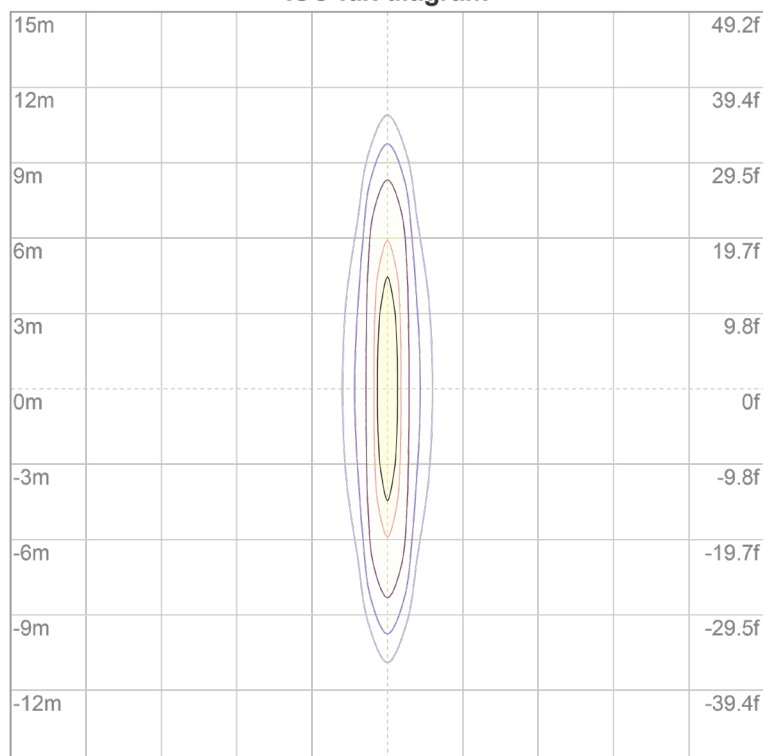
10%	5282 cd
20%	10564 cd
30%	15846 cd
40%	21128 cd
50%	26411 cd
60%	31693 cd
70%	36975 cd
80%	42257 cd
90%	47539 cd

Conditions:

Number of c-planes: 72

Candela at center: 52821 cd

ISO lux diagram



3%	15.8 lx
5%	26.4 lx
10%	52.8 lx
30%	158 lx
50%	264 lx

Conditions:

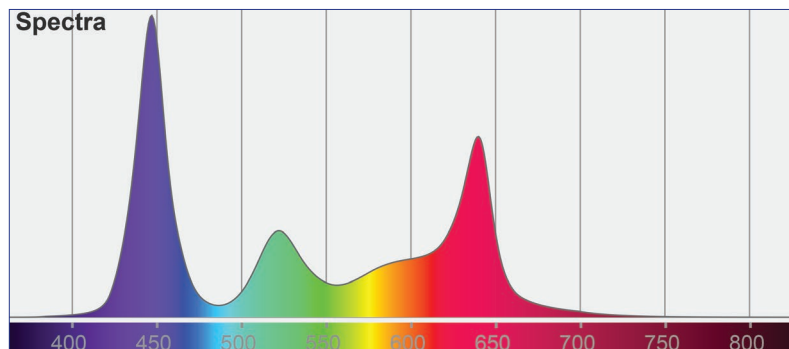
Number of c-planes: 72

Lux at center: 528 lx

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

LuxEOS Beam 80 - RGBA (1700K)

Colormetrics **RGBA**



Total Lumen Output (Native) : 5652 lm

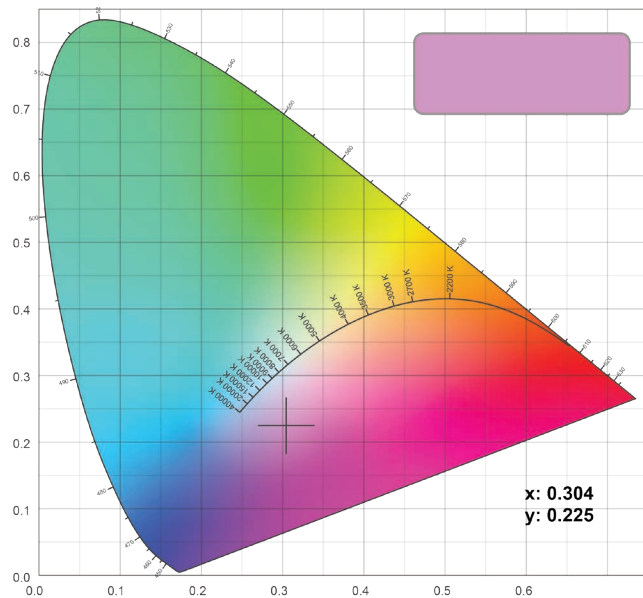
Efficacy : 32 lm/W

Voltage : 240V

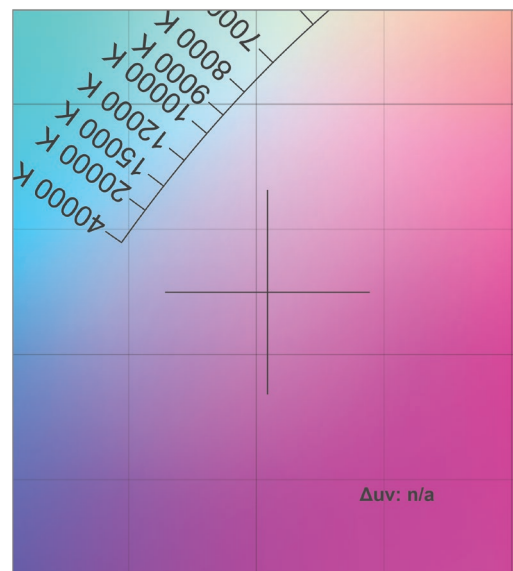
Supply Power : 180W

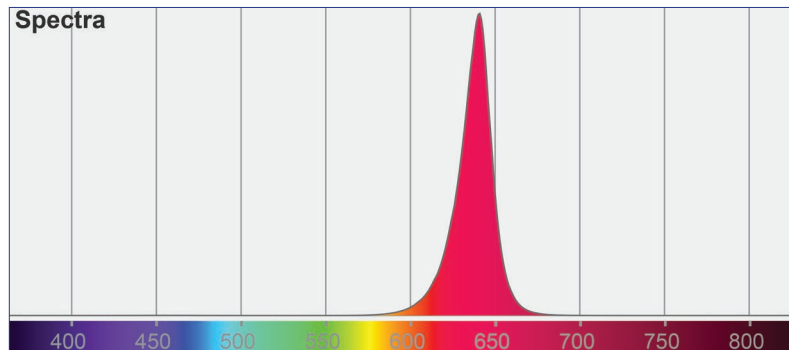
Supply Power Factor : 0.97

CIE 1931



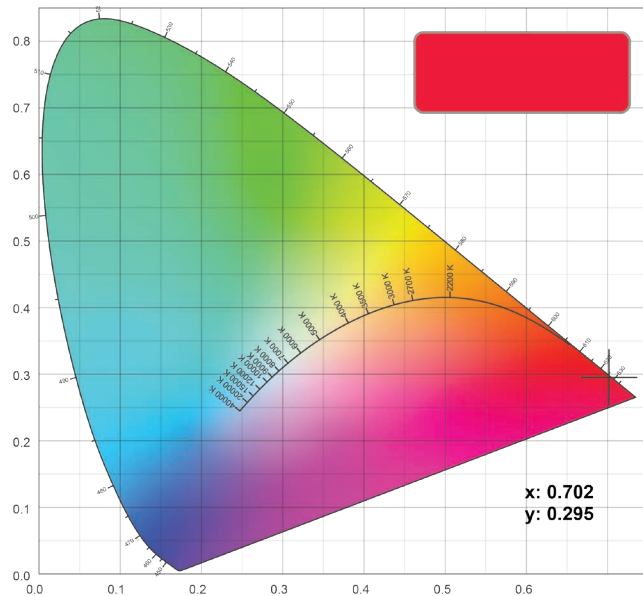
CIE 1931 Zoom



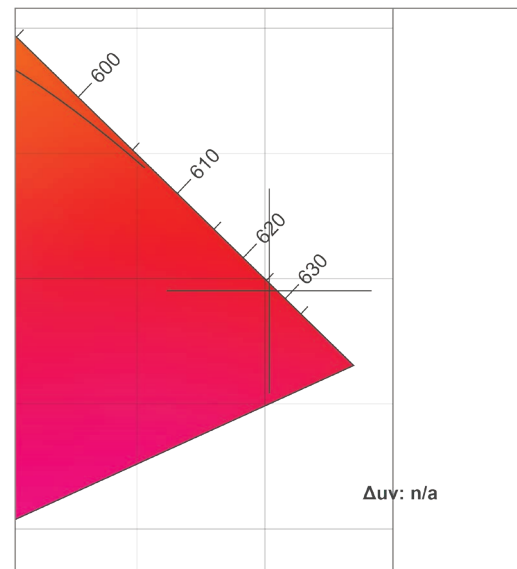


Red Lumen Output : 980 lm

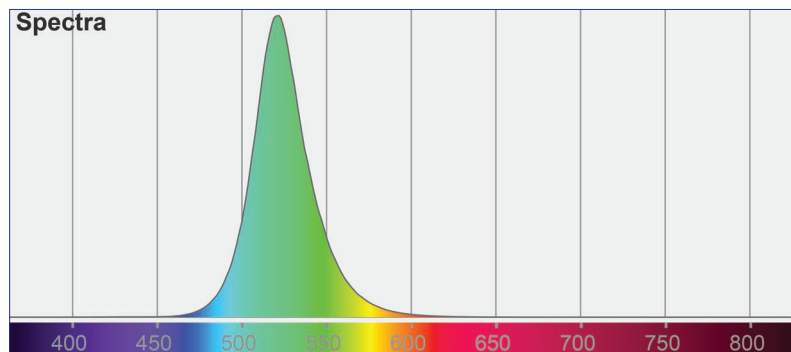
CIE 1931



CIE 1931 Zoom

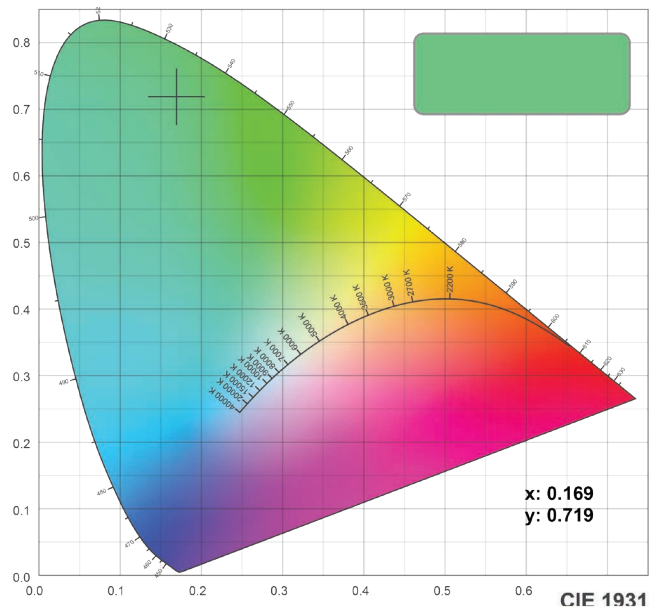


LuxEOS Beam 80 - RGBA (1700K) Colormetrics **GREEN**

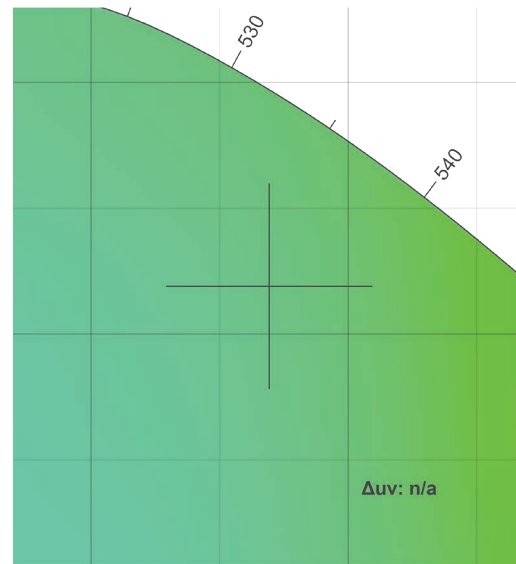


Green Lumen Output : 2944 lm

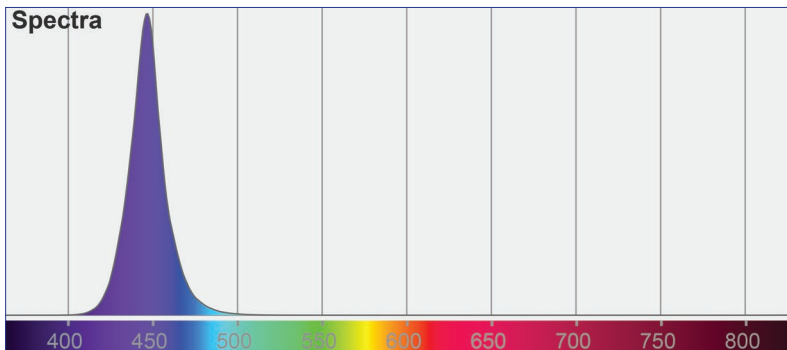
CIE 1931



CIE 1931 Zoom

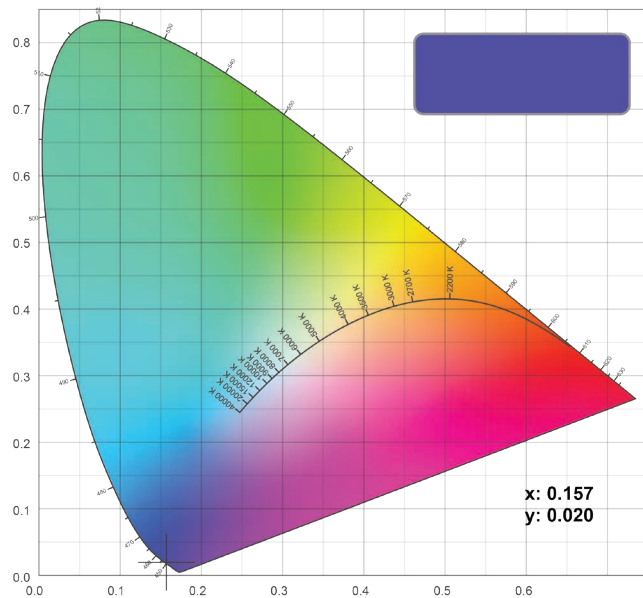


LuxEOS Beam 80 - RGBA (1700K) Colormetrics **BLUE**

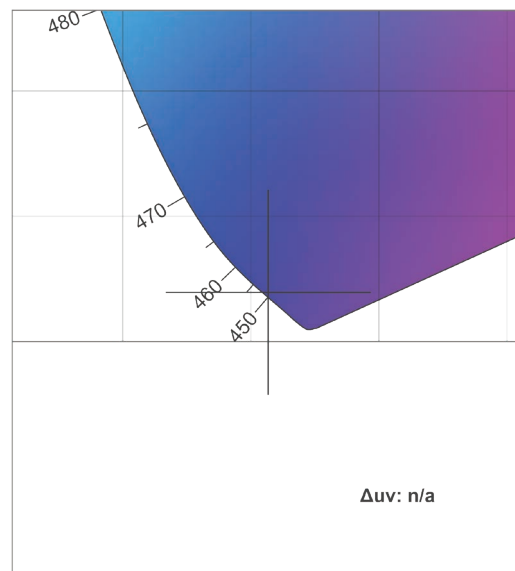


Blue Lumen Output : 400 lm

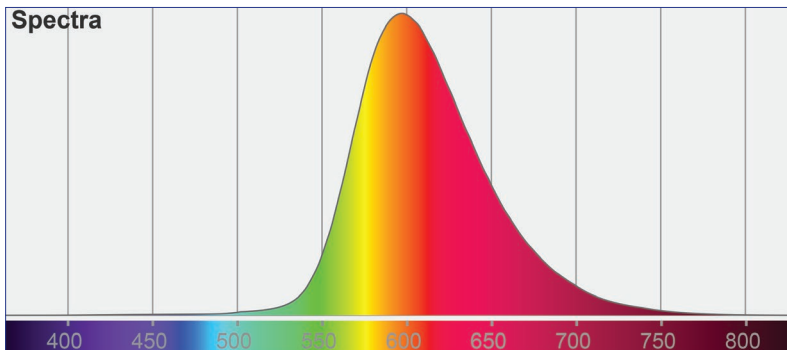
CIE 1931



CIE 1931 Zoom

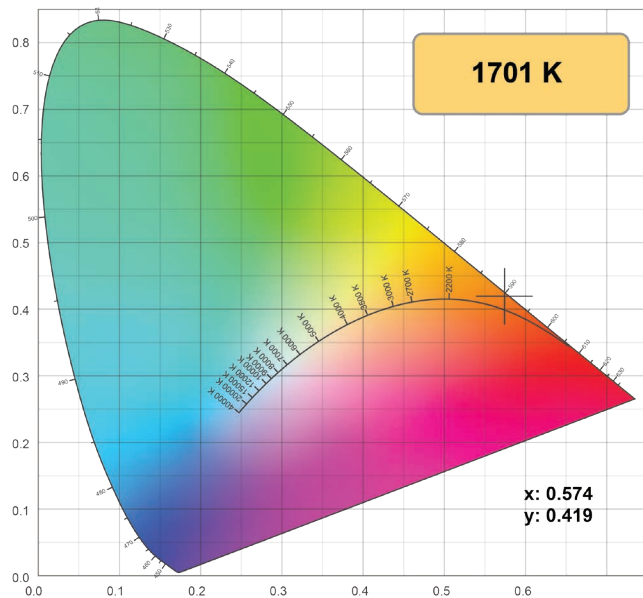


LuxEOS Beam 80 - RGBA (1700K) Colormetrics **AMBER 1700K**

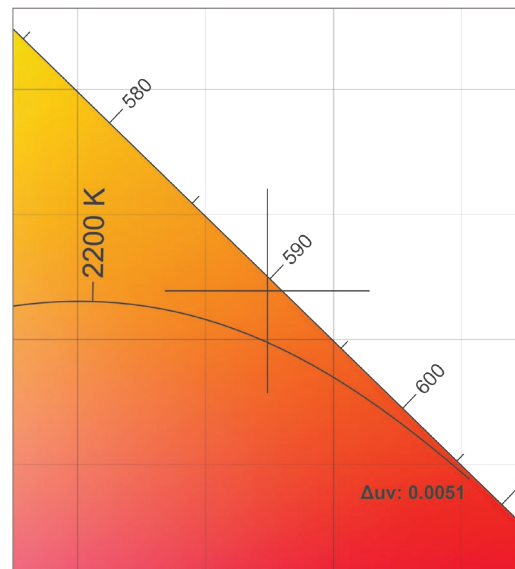


Amber 1700K Lumen Output : 2436 lm

CIE 1931



CIE 1931 Zoom



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

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