

LuxEOS Beam 40 VIVID COLOUR

ULTRA NARROW LED BEAM FOR ARCHITECTURAL LIGHTING



LuxEOS BEAM 40 RGBW (2700K) 3° 3x60°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

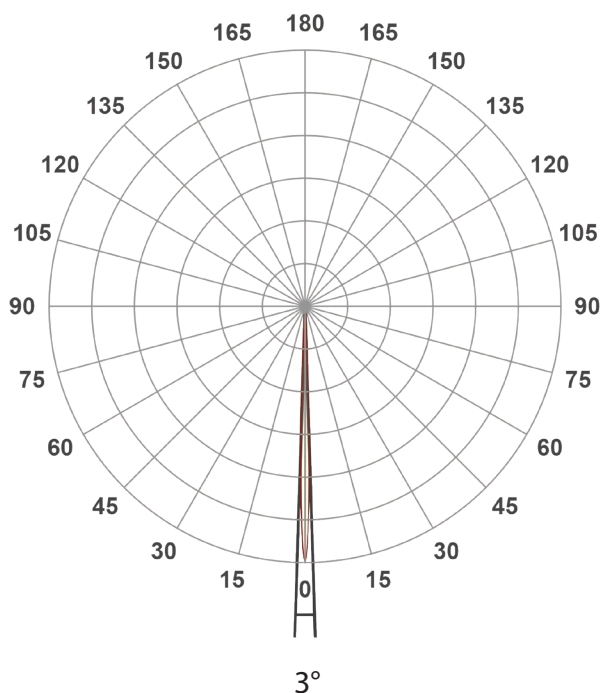
Date
Nov 2020

Dimensions
350mm (H) x 420mm (W) x 150mm (D) (including yoke)

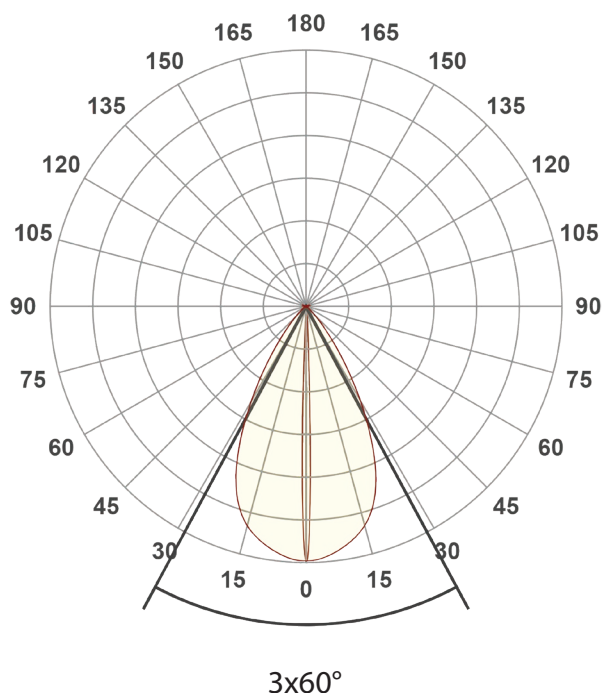
Weight
12 kgs (26.9lbs)

Polar Distribution

3° Conical Beam (Native)

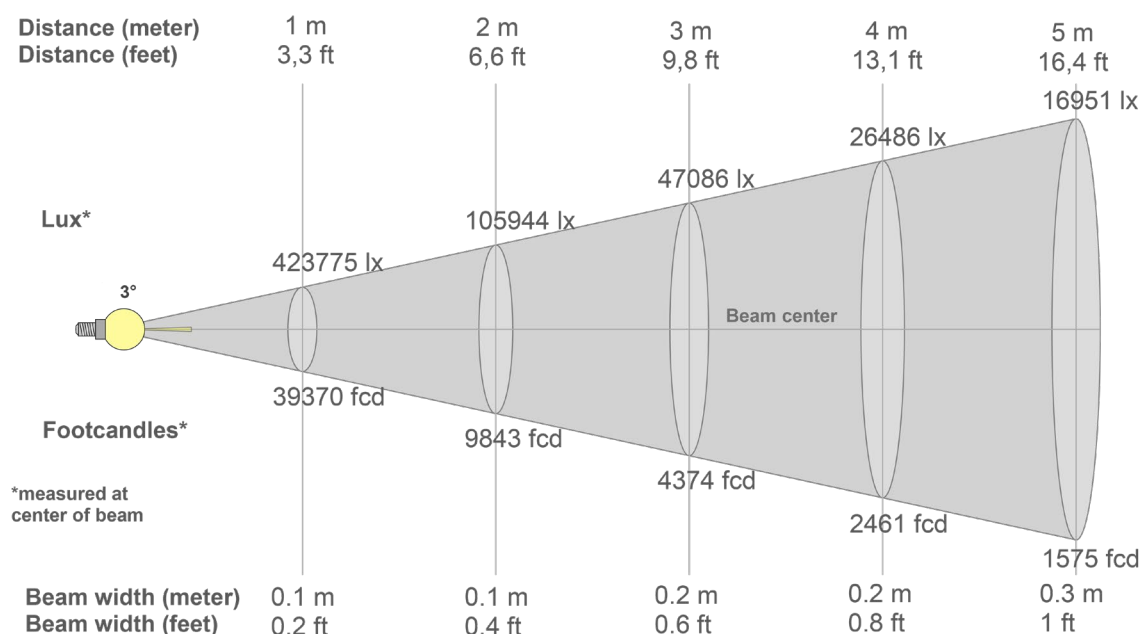


3x60° Elliptical Beam (With HBS)



LuxEOS Beam 40 - 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
423775lx	105944lx	47086lx	26486lx	16951lx	11772lx	8648lx	6621lx	5232lx	4238lx	3502lx	2943lx	2508lx	2162lx	1883lx	1655lx	1466lx	1308lx	1174lx	1059lx
39370fcd	9842.5fcd	4374.4fcd	2460.6fcd	1574.8fcd	1093.6fcd	803.5fcd	615.2fcd	486fcd	393.7fcd	325.4fcd	273.4fcd	233fcd	200.9fcd	175fcd	153.8fcd	136.2fcd	121.5fcd	109.1fcd	98.4fcd

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°
424K	345K	172K	56K	17K	7K	5K	3K	3K	2K	2K	2K	2K	1K	1K	1K	1K	1K	1K	1K
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°
424K	345K	172K	56K	17K	7K	5K	3K	3K	2K	2K	2K	2K	1K	1K	1K	1K	1K	1K	1K
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°
424K	345K	172K	56K	17K	7K	5K	3K	3K	2K	2K	2K	2K	1K	1K	1K	1K	1K	1K	1K
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°
424K	345K	172K	56K	17K	7K	5K	3K	3K	2K	2K	2K	2K	1K	1K	1K	1K	1K	1K	1K
100%	81%	41%	13%	4%	2%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

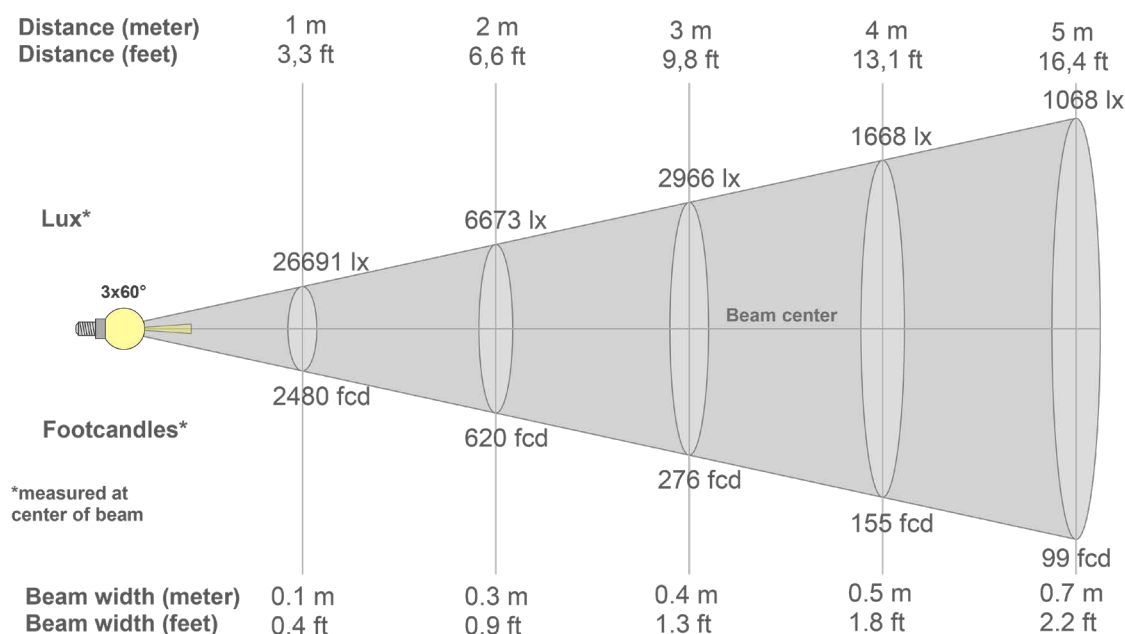
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3.5°	6.5°	9.1°	94.7%	92.4%

PULSAR

1 Pembroke Avenue, Waterbeach, Cambridge, CB25 9QP
www.pulsarlight.com | sales@pulsarlight.com | +44 (0) 1223 403 500

LuxEOS Beam 40 - 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
26691lx	6673lx	2966lx	1668lx	1068lx	741lx	545lx	417lx	330lx	267lx	221lx	185lx	158lx	136lx	119lx	104lx	92lx	82lx	74lx	67lx
2479.7fc	619.9fc	275.5fc	155fc	99.2fc	68.9fc	50.6fc	38.7fc	30.6fc	24.8fc	20.5fc	17.2fc	14.7fc	12.7fc	11fc	9.7fc	8.6fc	7.7fc	6.9fc	6.2fc

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°
26.7K	23.9K	15.8K	8.5K	4.4K	2.6K	1.8K	1.5K	1.2K	1.0K	0.8K	0.7K	0.6K	0.5K	0.4K	0.4K	0.4K	0.3K	0.3K	0.3K
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°
26.7K	26.9K	26.8K	26.6K	26.3K	26.1K	25.8K	25.4K	25.1K	24.6K	24.2K	23.6K	23.0K	22.4K	21.7K	21.0K	20.2K	19.4K	18.6K	17.7K
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°
26.7K	23.9K	15.8K	8.5K	4.4K	2.6K	1.8K	1.5K	1.2K	1.0K	0.8K	0.7K	0.6K	0.5K	0.4K	0.4K	0.4K	0.3K	0.3K	0.3K
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°
26.7K	26.9K	26.8K	26.6K	26.3K	26.1K	25.8K	25.4K	25.1K	24.6K	24.2K	23.6K	23.0K	22.4K	21.7K	21.0K	20.2K	19.4K	18.6K	17.7K
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

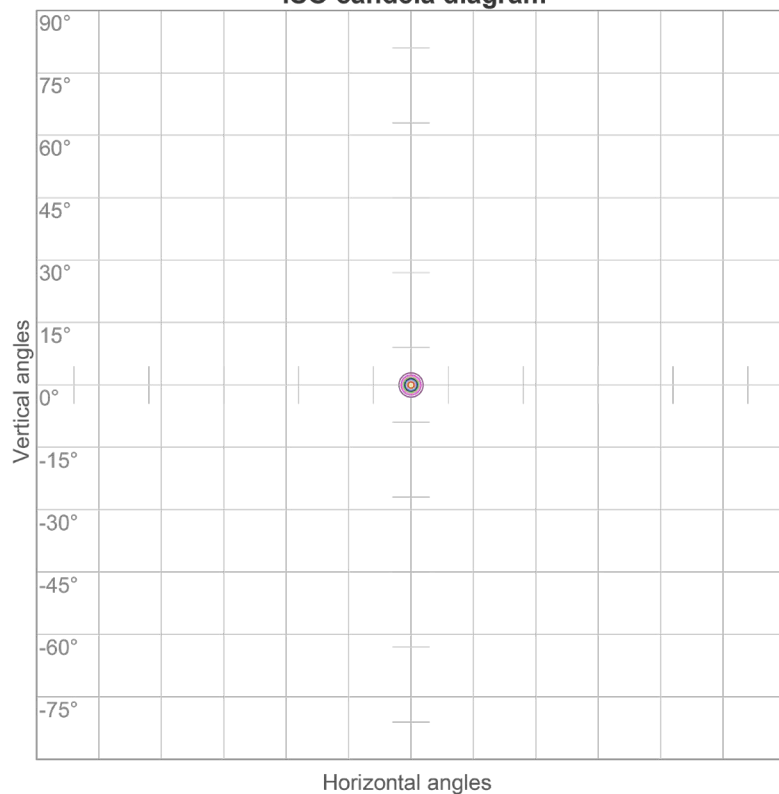
1 Pembroke Avenue, Waterbeach, Cambridge, CB25 9QP
www.pulsarlight.com | sales@pulsarlight.com | +44 (0) 1223 403 500

LuxEOS Beam 40 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with native 3° Optics



ISO candela diagram



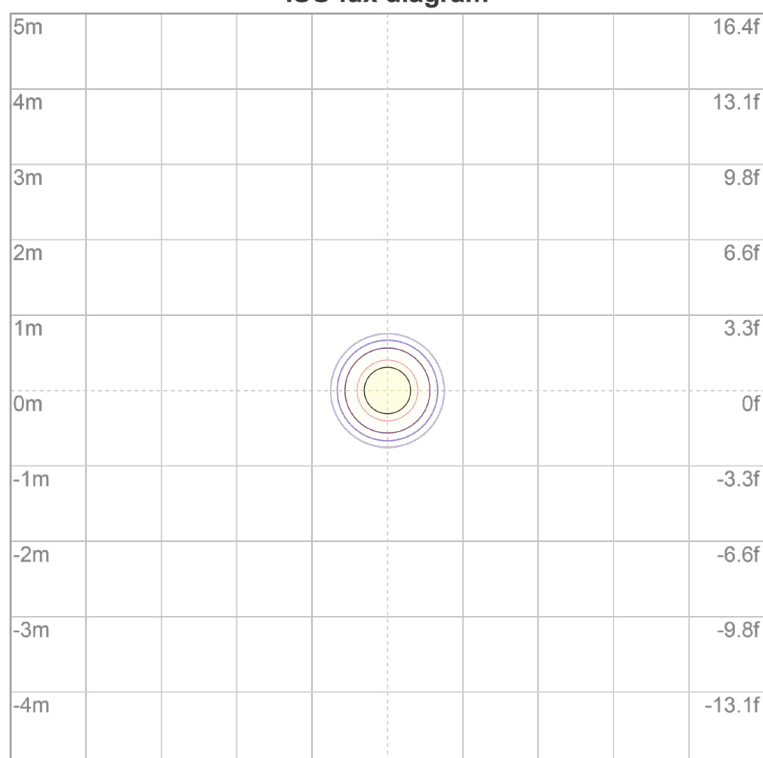
10%	42378 cd
20%	84755 cd
30%	127133 cd
40%	169510 cd
50%	211888 cd
60%	254265 cd
70%	296643 cd
80%	339020 cd
90%	381398 cd

Conditions:

Number of c-planes: 72

Candela at center: 423775 cd

ISO lux diagram



3%	127 lx
5%	212 lx
10%	424 lx
30%	1271 lx
50%	2119 lx

Conditions:

Number of c-planes: 72

Lux at center: 4238 lx

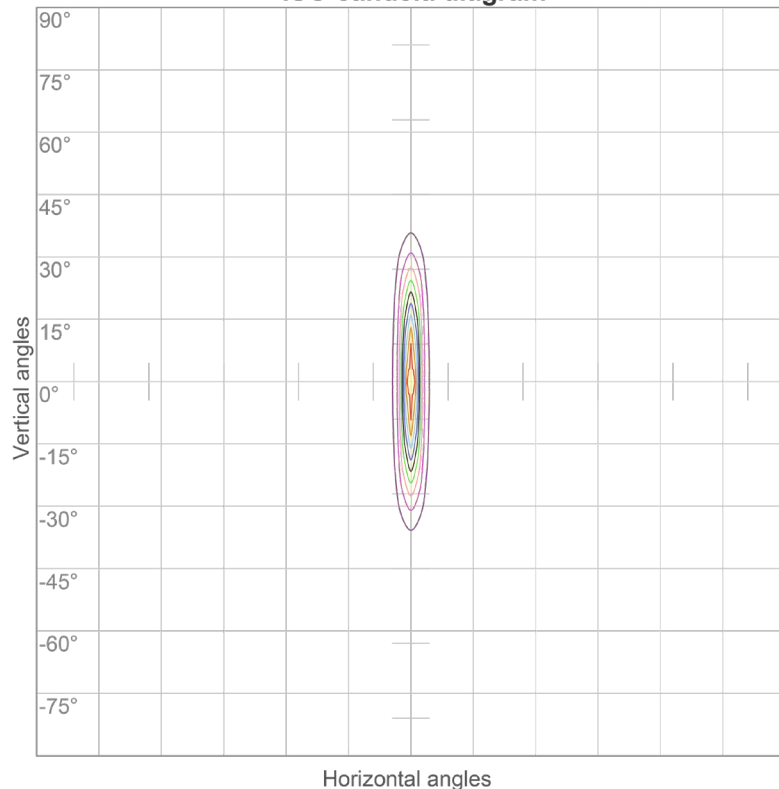
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Beam 40 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with 3x60° Optics



ISO candela diagram



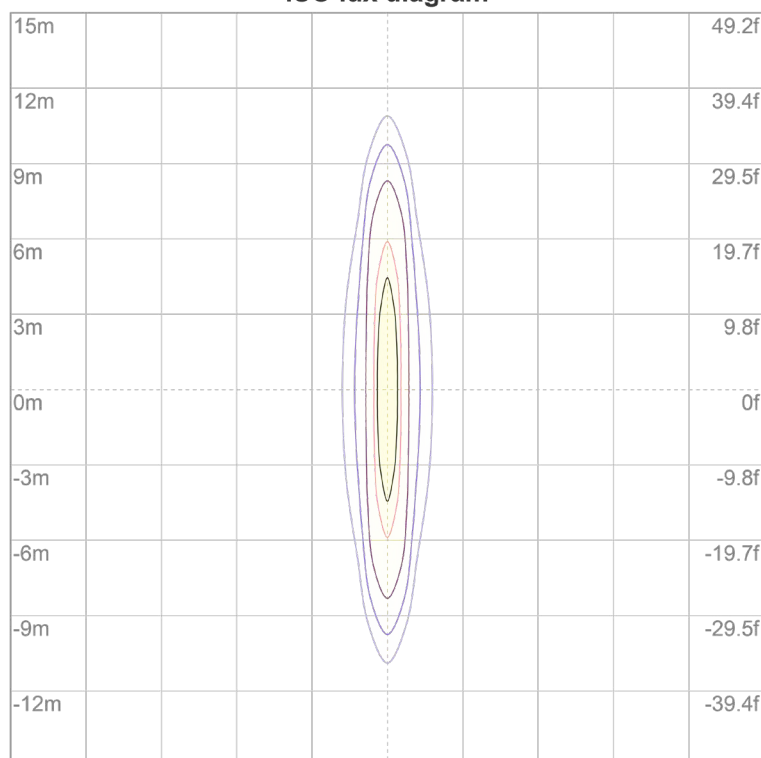
10%	2669 cd
20%	5338 cd
30%	8007 cd
40%	10677 cd
50%	13346 cd
60%	16015 cd
70%	18684 cd
80%	21353 cd
90%	24022 cd

Conditions:

Number of c-planes: 72

Candela at center: 26691 cd

ISO lux diagram



3%	8.01 lx
5%	13.3 lx
10%	26.7 lx
30%	80.1 lx
50%	133 lx

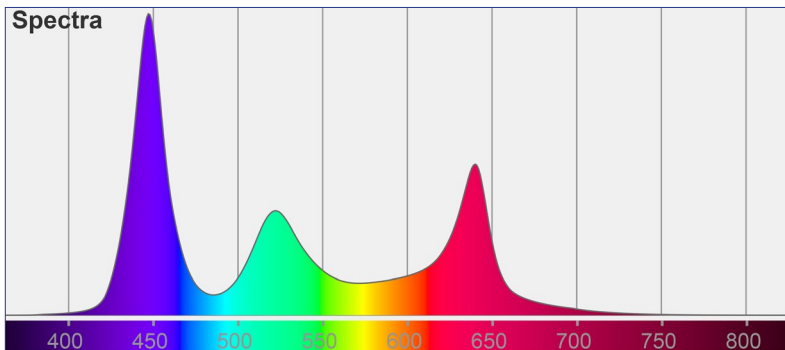
Conditions:

Number of c-planes: 72

Lux at center: 267 lx

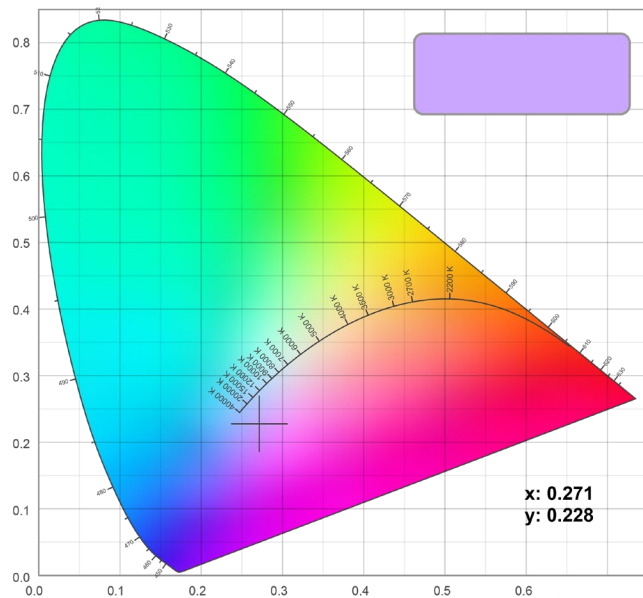
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Beam 40 - RGBW (2700K) Colormetrics RGBW

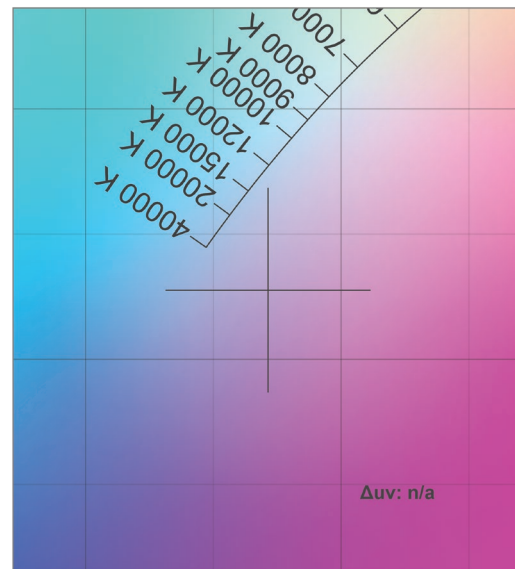


Total Lumen Output (Native) : 2856 lm
Efficacy : 32 lm/W
Voltage : 240V
Supply Power : 90W
Supply Power Factor : 0.97

CIE 1931

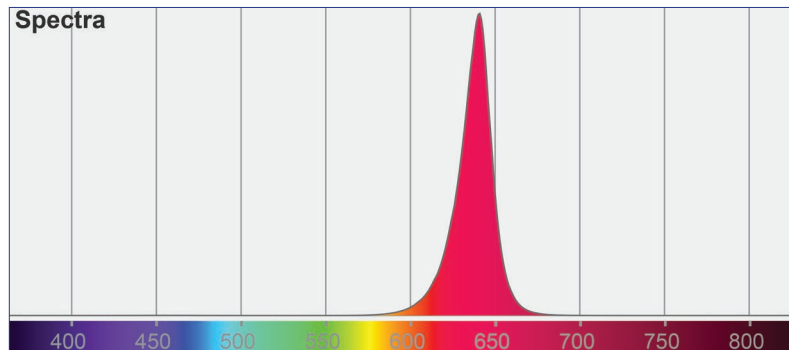


CIE 1931 Zoom



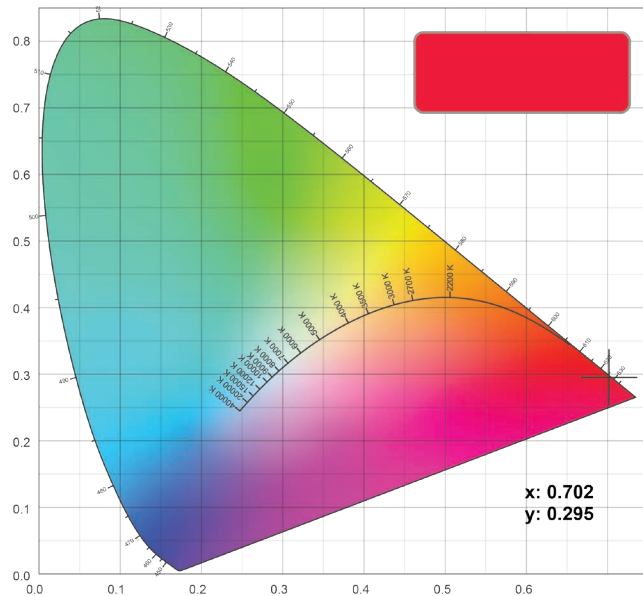
LuxEOS Beam 40 - RGBW (2700K)

Colormetrics **RED**

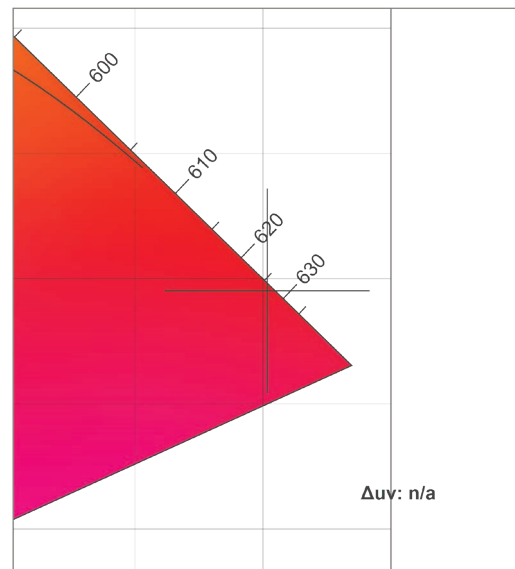


Red Lumen Output : 490 lm

CIE 1931

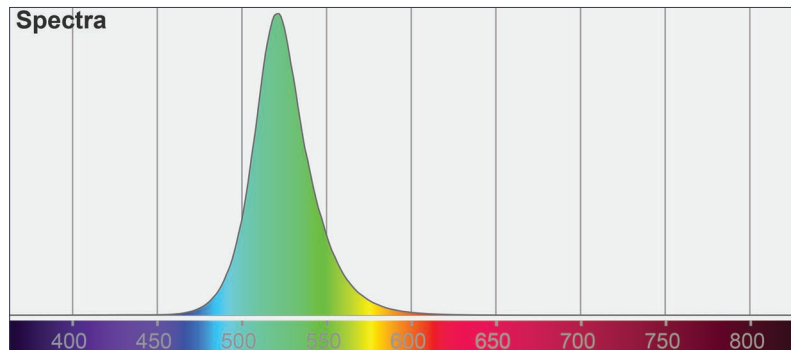


CIE 1931 Zoom



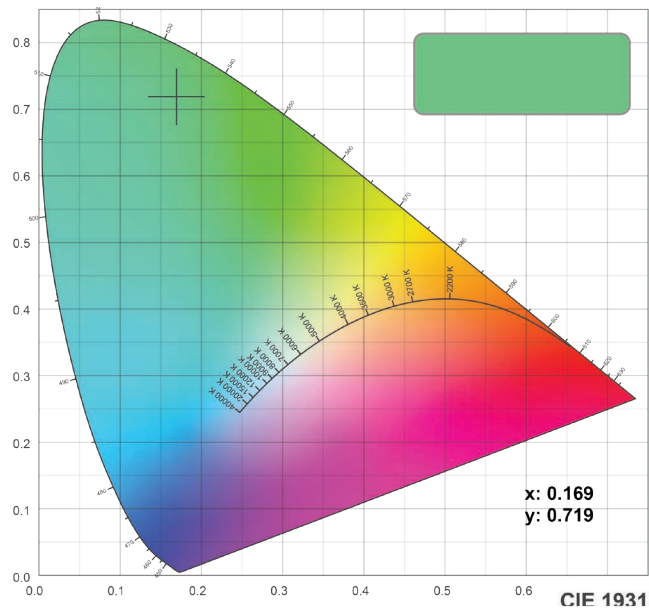
LuxEOS Beam 40 - RGBW (2700K)

Colormetrics **GREEN**

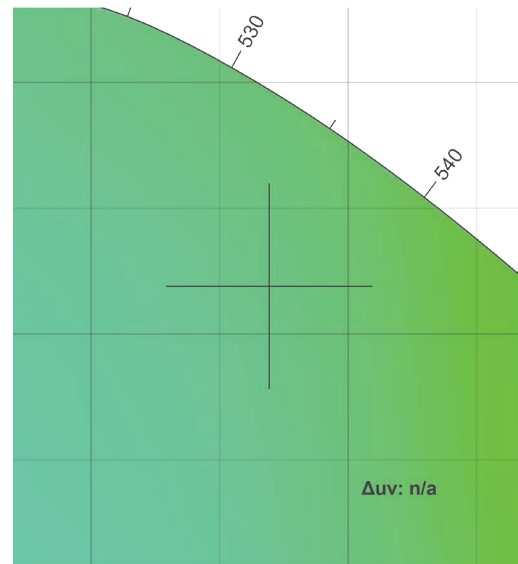


Green Lumen Output : 1472 lm

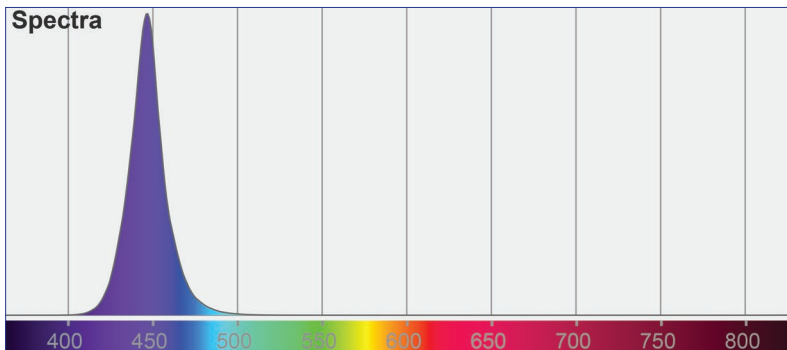
CIE 1931



CIE 1931 Zoom

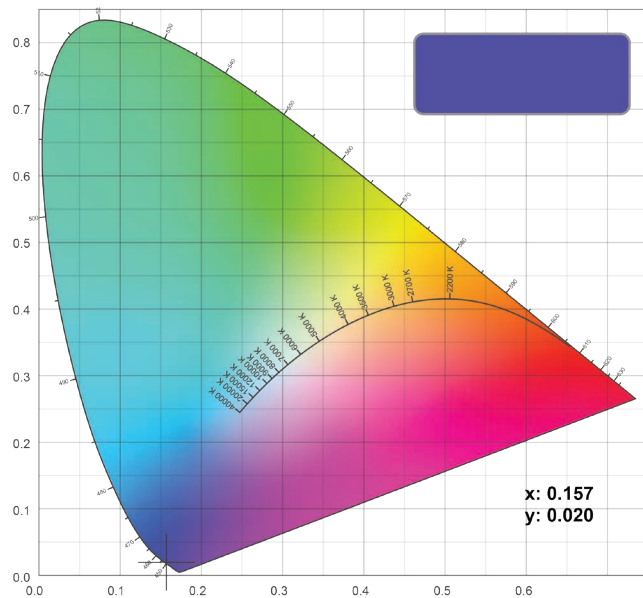


LuxEOS Beam 40 - RGBW (2700K) Colormetrics **BLUE**

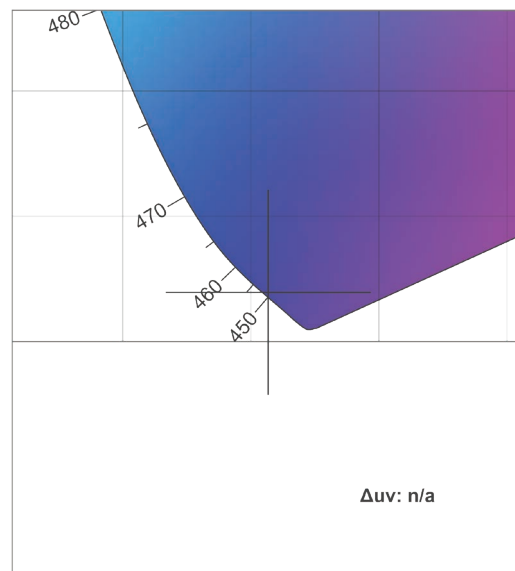


Blue Lumen Output : 200 lm

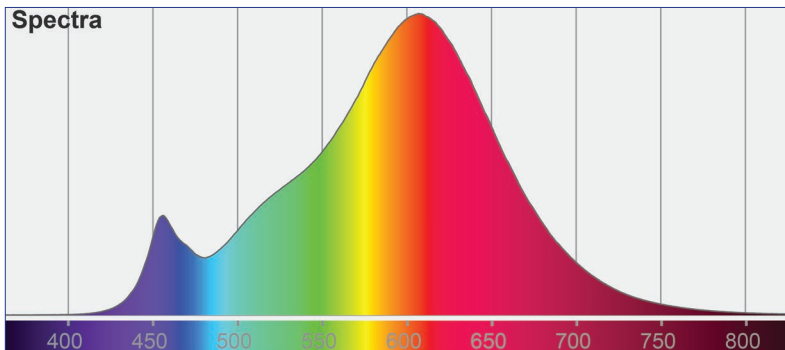
CIE 1931



CIE 1931 Zoom

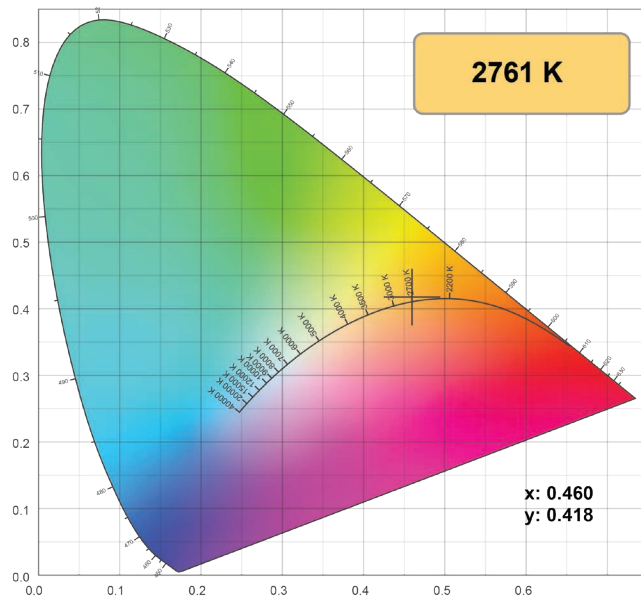


LuxEOS Beam 40 - RGBW (2700K) Colormetrics **White 2700K**

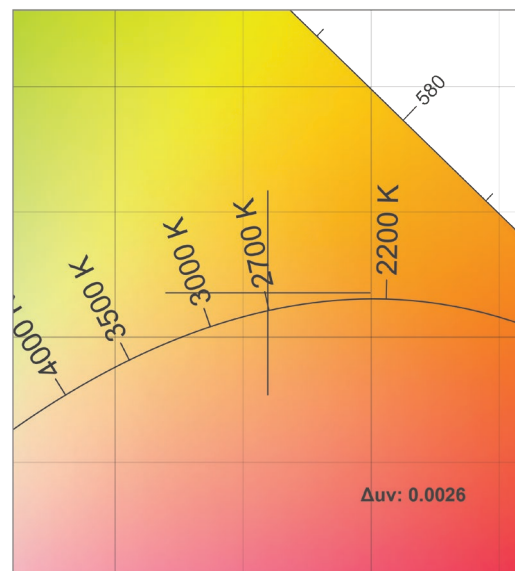


White 2700K Lumen Output : 1376 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



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

As part our commitment to continuous improvement PULSAR may change the specifications of its products without prior notification or public announcement.
All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract.

PULSAR

1 Pembroke Avenue, Waterbeach, Cambridge, CB25 9QP
www.pulsarlight.com | sales@pulsarlight.com | +44 (0) 1223 403 500