

LuxEOS Flood 36 VIVID COLOUR

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 36 - RGBA (1700K)
10° 20° 40° 80° 10x60° 60x10°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

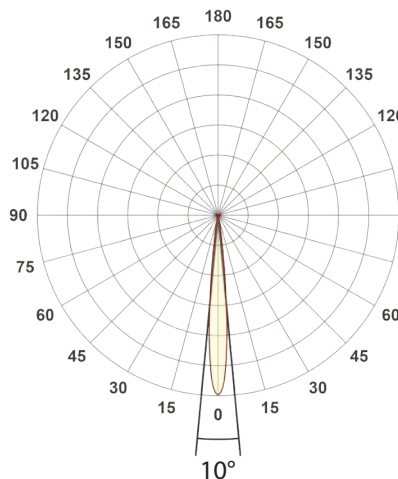
Date
Nov 2020

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

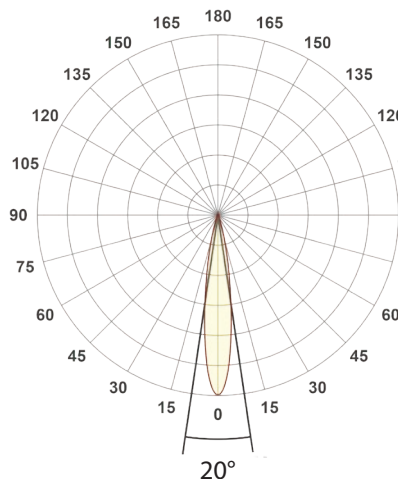
Weight
23 kgs (50.7lbs)

Polar Distribution

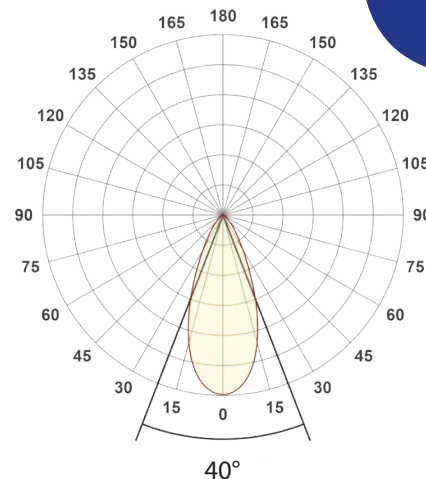
10° Conical Beam (Native)



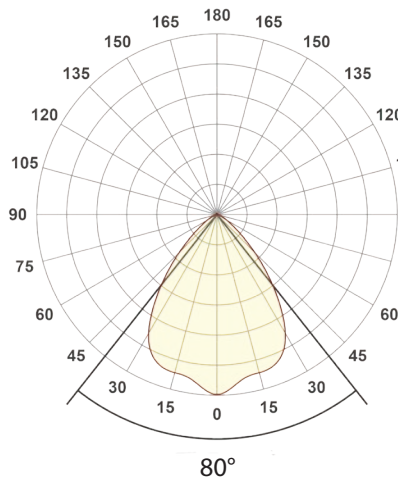
20° Conical Beam (With HBS)



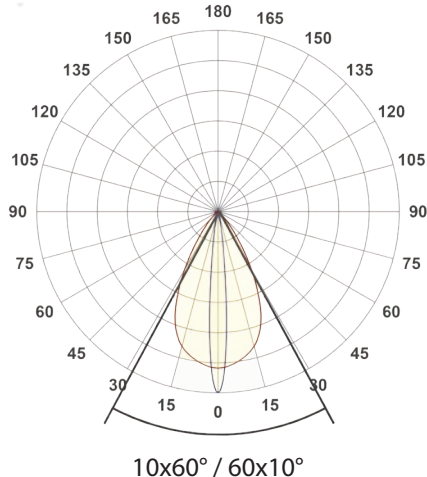
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)

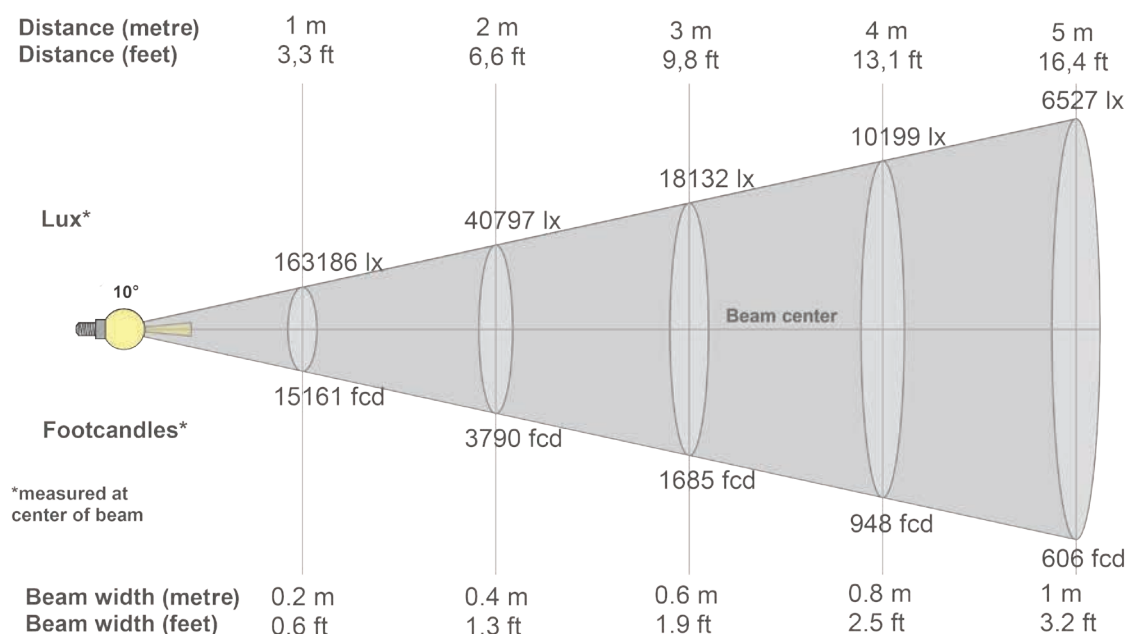


10x60° / 60x10° Elliptical Beam (With HBS)



LuxEOS Flood 36 - RGBA (1700K)

Intensities at Distance with native 10° 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
163186lx	40797lx	18132lx	10199lx	6527lx	4533lx	3330lx	2550lx	2015lx	1632lx	1349lx	1133lx	966lx	833lx	725lx	637lx	565lx	504lx	452lx	408lx
15160.5fc	3790.1fc	1684.5fc	947.5fc	606.4fc	421.1fc	309.4fc	236.9fc	187.2fc	151.6fc	125.3fc	105.3fc	89.7fc	77.3fc	67.4fc	59.2fc	52.5fc	46.8fc	42fc	37.9fc

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°
163K	161K	153K	141K	121K	95K	70K	47K	30K	19K	12K	8K	6K	5K	4K	4K	3K	3K	2K	2K
100%	99%	94%	86%	74%	58%	43%	29%	18%	11%	7%	5%	4%	3%	3%	2%	2%	2%	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°
163K	161K	153K	141K	121K	95K	70K	47K	30K	19K	12K	8K	6K	5K	4K	4K	3K	3K	2K	2K
100%	99%	94%	86%	74%	58%	43%	29%	18%	11%	7%	5%	4%	3%	3%	2%	2%	2%	1%	1%

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°
163K	161K	153K	141K	121K	95K	70K	47K	30K	19K	12K	8K	6K	5K	4K	4K	3K	3K	2K	2K
100%	99%	94%	86%	74%	58%	43%	29%	18%	11%	7%	5%	4%	3%	3%	2%	2%	2%	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°
163K	161K	153K	141K	121K	95K	70K	47K	30K	19K	12K	8K	6K	5K	4K	4K	3K	3K	2K	2K
100%	99%	94%	86%	74%	58%	43%	29%	18%	11%	7%	5%	4%	3%	3%	2%	2%	2%	1%	1%

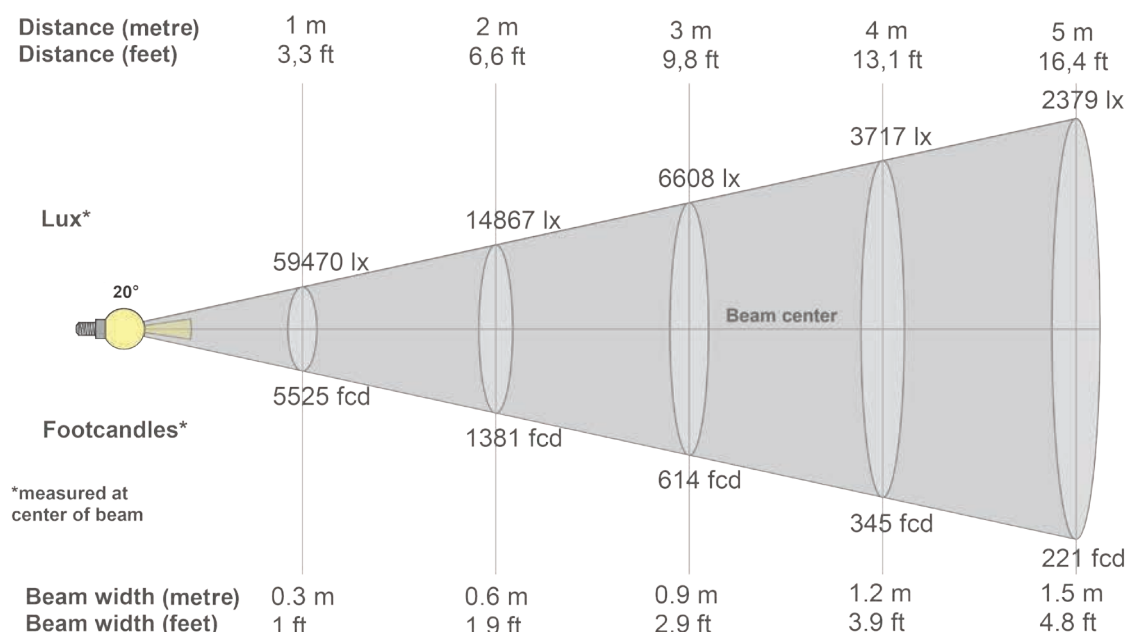
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11°	18.5°	29.3°	97.3%	95.9%

DW Windsor

Pindar Road, Hoddesdon, EN11 0DX
www.dwwindsor.com | info@dwwindsor.com | +44 (0) 1992 474 600

LuxEOS Flood 36 - RGBA (1700K)

Intensities at Distance with 20° 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
59470lx	14867lx	6608lx	3717lx	2379lx	1652lx	1214lx	929lx	734lx	595lx	491lx	413lx	352lx	303lx	264lx	232lx	206lx	184lx	165lx	149lx
5524.9fc	1381.2fc	613.9fc	345.3fc	221fc	153.5fc	112.8fc	86.3fc	68.2fc	55.2fc	45.7fc	38.4fc	32.7fc	28.2fc	24.6fc	21.6fc	19.1fc	17.1fc	15.3fc	13.8fc

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°
59.5K	59.0K	57.2K	54.3K	50.6K	46.2K	41.4K	36.4K	31.5K	26.9K	22.6K	18.7K	15.4K	12.6K	10.2K	8.2K	6.7K	5.4K	4.4K	3.6K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

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°
59.5K	59.0K	57.2K	54.3K	50.6K	46.2K	41.4K	36.4K	31.5K	26.9K	22.6K	18.7K	15.4K	12.6K	10.2K	8.2K	6.7K	5.4K	4.4K	3.6K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

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°
59.5K	59.0K	57.2K	54.3K	50.6K	46.2K	41.4K	36.4K	31.5K	26.9K	22.6K	18.7K	15.4K	12.6K	10.2K	8.2K	6.7K	5.4K	4.4K	3.6K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

Intensities in 270° c-plane

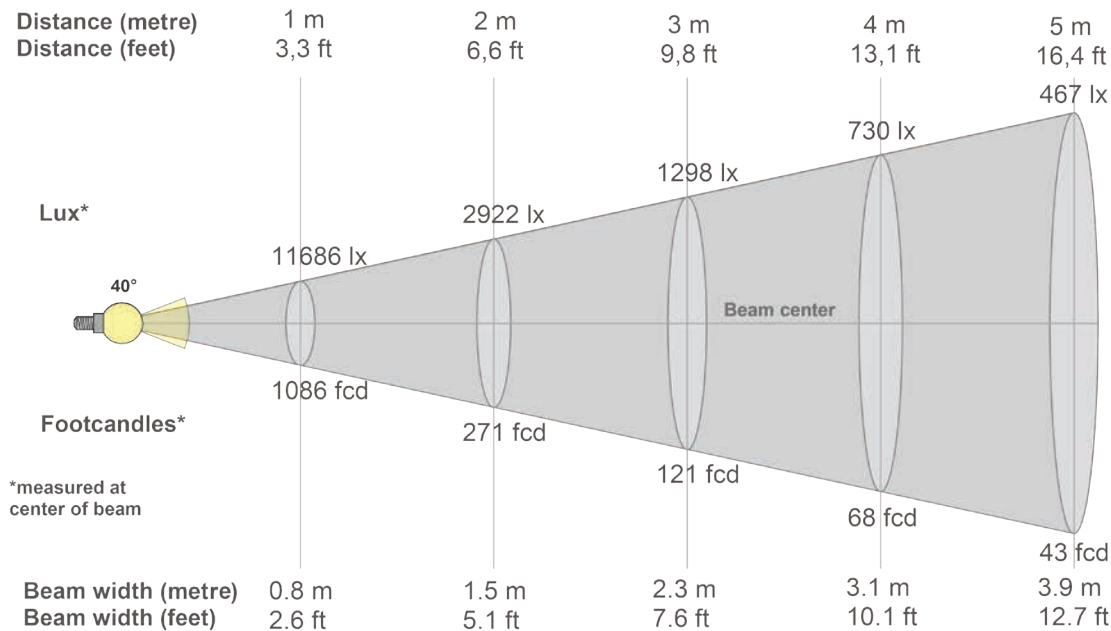
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
59.5K	59.0K	57.2K	54.3K	50.6K	46.2K	41.4K	36.4K	31.5K	26.9K	22.6K	18.7K	15.4K	12.6K	10.2K	8.2K	6.7K	5.4K	4.4K	3.6K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

DW Windsor

Pindar Road, Hoddesdon, EN11 0DX
www.dwwindsor.com | info@dwwindsor.com | +44 (0) 1992 474 600

LuxEOS Flood 36 - RGBA (1700K) Intensities at Distance with 40° 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
11686lx	2922lx	1298lx	730lx	467lx	325lx	238lx	183lx	144lx	117lx	97lx	81lx	69lx	60lx	52lx	46lx	40lx	36lx	32lx	29lx
1085.7fc	271.4fc	120.6fc	67.9fc	43.4fc	30.2fc	22.2fc	17fc	13.4fc	10.9fc	9fc	7.5fc	6.4fc	5.5fc	4.8fc	4.2fc	3.8fc	3.4fc	3fc	2.7fc

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.7K	11.6K	11.5K	11.2K	10.8K	10.3K	9.7K	9.0K	8.2K	7.3K	6.4K	5.5K	4.6K	3.8K	3.1K	2.6K	2.1K	1.8K	1.5K	1.2K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.7K	11.6K	11.5K	11.2K	10.8K	10.3K	9.7K	9.0K	8.2K	7.3K	6.4K	5.5K	4.6K	3.8K	3.1K	2.6K	2.1K	1.8K	1.5K	1.2K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.7K	11.6K	11.5K	11.2K	10.8K	10.3K	9.7K	9.0K	8.2K	7.3K	6.4K	5.5K	4.6K	3.8K	3.1K	2.6K	2.1K	1.8K	1.5K	1.2K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

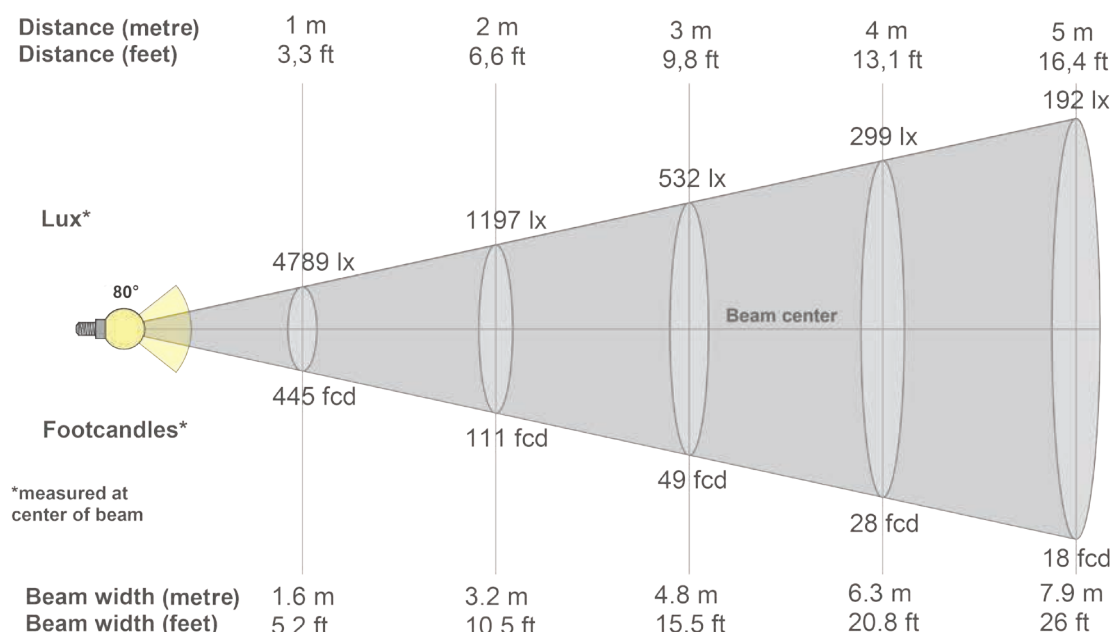
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.7K	11.6K	11.5K	11.2K	10.8K	10.3K	9.7K	9.0K	8.2K	7.3K	6.4K	5.5K	4.6K	3.8K	3.1K	2.6K	2.1K	1.8K	1.5K	1.2K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.3°	76.6°	105.5°	96.7%	90.9%

LuxEOS Flood 36 - RGBA (1700K)

Intensities at Distance with 80° 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
4789lx	1197lx	532lx	299lx	192lx	133lx	98lx	75lx	59lx	48lx	40lx	33lx	28lx	24lx	21lx	19lx	17lx	15lx	13lx	12lx
445fcd	111.2fcd	49.4fcd	27.8fcd	17.8fcd	12.4fcd	9.1fcd	7fcd	5.5fcd	4.4fcd	3.7fcd	3.1fcd	2.6fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
4789	4631	4413	4366	4320	4115	3653	2931	2148	1434	864	500	299	189	122	74	37	11	2	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
4789	4631	4413	4366	4320	4115	3653	2931	2148	1434	864	500	299	189	122	74	37	11	2	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
4789	4631	4413	4366	4320	4115	3653	2931	2148	1434	864	500	299	189	122	74	37	11	2	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
4789	4631	4413	4366	4320	4115	3653	2931	2148	1434	864	500	299	189	122	74	37	11	2	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

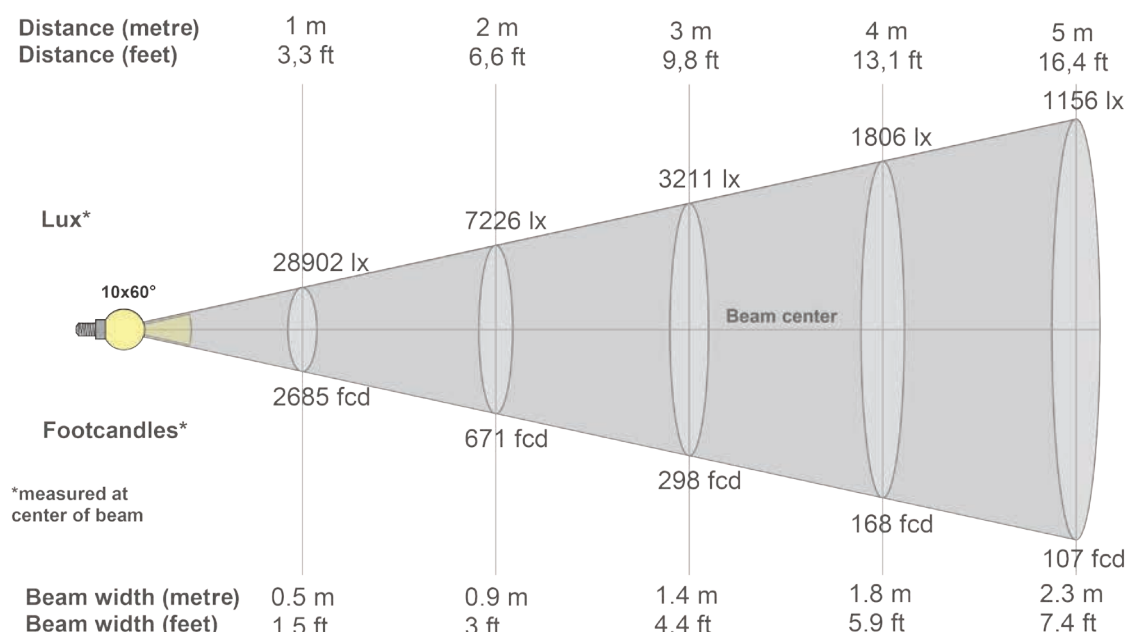
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76.8°	110.8°	140.5°	95.0%	82.4%

DW Windsor

Pindar Road, Hoddesdon, EN11 0DX
www.dwwindsor.com | info@dwwindsor.com | +44 (0) 1992 474 600

LuxEOS Flood 36 - RGBA (1700K)

Intensities at Distance with 10x60° & 60x10° 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
28902lx	7226lx	3211lx	1806lx	1156lx	803lx	590lx	452lx	357lx	289lx	239lx	201lx	171lx	147lx	128lx	113lx	100lx	89lx	80lx	72lx
2685.1fc	671.3fc	298.3fc	167.8fc	107.4fc	74.6fc	54.8fc	42fc	33.1fc	26.9fc	22.2fc	18.6fc	15.9fc	13.7fc	11.9fc	10.5fc	9.3fc	8.3fc	7.4fc	6.7fc

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
28.9K	27.1K	26.9K	26.6K	26.2K	25.7K	25.2K	24.6K	23.8K	22.8K	21.5K	19.9K	18.1K	16.0K	13.8K	11.6K	9.6K	7.7K	6.0K	4.6K
100%	94%	93%	92%	91%	89%	87%	85%	82%	79%	74%	69%	62%	55%	48%	40%	33%	27%	21%	16%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
28.9K	28.6K	21.2K	12.7K	6.9K	4.0K	2.7K	2.0K	1.4K	1.0K	0.7K	0.6K	0.5K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	0.2K
100%	99%	73%	44%	24%	14%	9%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
28.9K	27.1K	26.9K	26.6K	26.2K	25.7K	25.2K	24.6K	23.8K	22.8K	21.5K	19.9K	18.1K	16.0K	13.8K	11.6K	9.6K	7.7K	6.0K	4.6K
100%	94%	93%	92%	91%	89%	87%	85%	82%	79%	74%	69%	62%	55%	48%	40%	33%	27%	21%	16%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
28.9K	28.6K	21.2K	12.7K	6.9K	4.0K	2.7K	2.0K	1.4K	1.0K	0.7K	0.6K	0.5K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	0.2K
100%	99%	73%	44%	24%	14%	9%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.5°	45.7°	66.1°	97.5%	94.0%

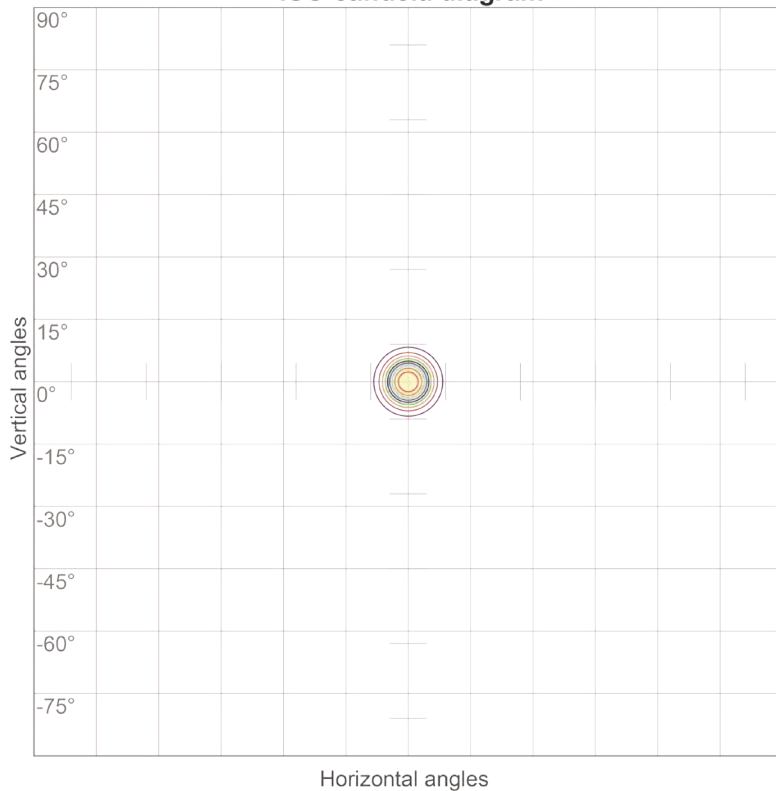
DW Windsor

Pindar Road, Hoddesdon, EN11 0DX
www.dwwindsor.com | info@dwwindsor.com | +44 (0) 1992 474 600

LuxEOS Flood 36 - RGBA (1700K) ISO Candela & ISO Lux diagrams with 10° Optics



ISO candela diagram



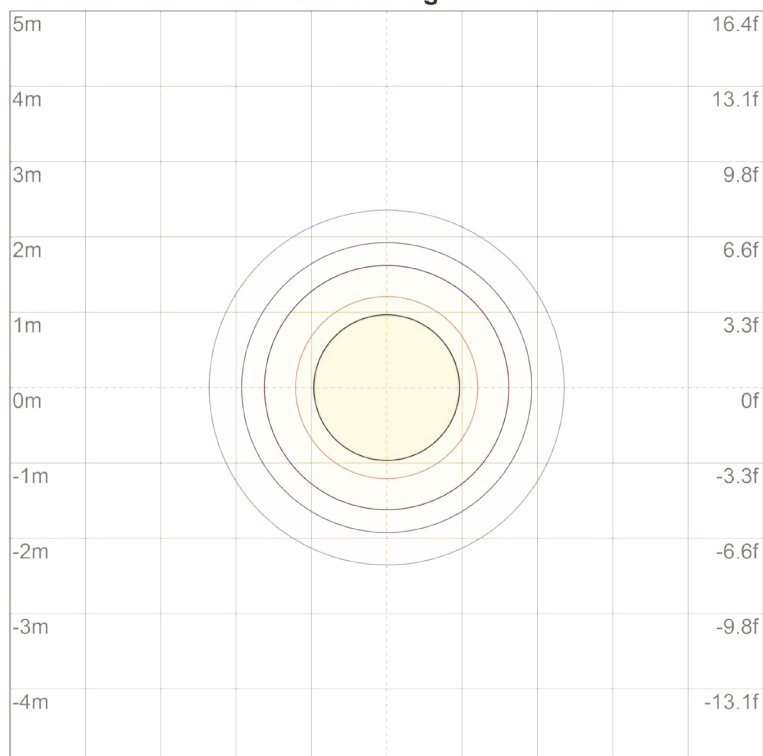
10%	16319 cd
20%	32637 cd
30%	48956 cd
40%	65275 cd
50%	81593 cd
60%	97912 cd
70%	114230 cd
80%	130549 cd
90%	146868 cd

Conditions:

Number of c-planes: 72

Candela at center: 163186 cd

ISO lux diagram



3%	49.0 lx
5%	81.6 lx
10%	163 lx
30%	490 lx
50%	816 lx

Conditions:

Number of c-planes: 72

Lux at center: 1632 lx

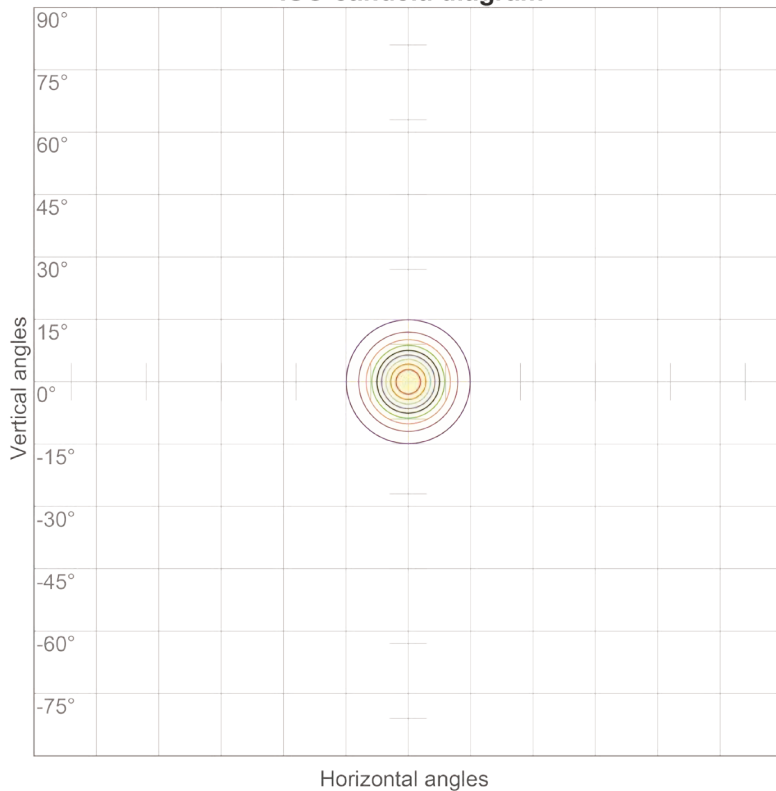
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 36 - RGBA (1700K)

ISO Candela & ISO Lux diagrams with 20° Optics



ISO candela diagram



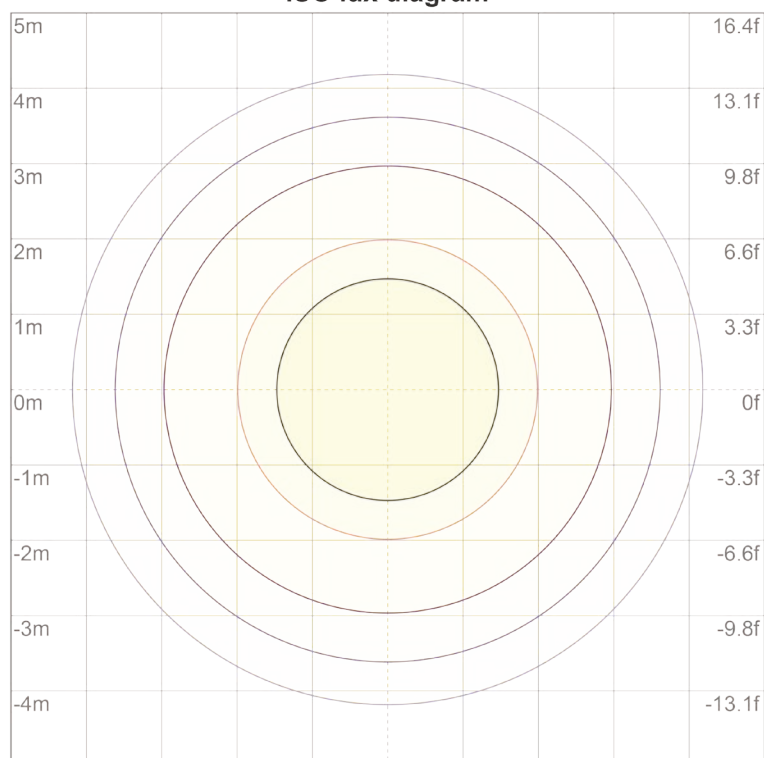
10%	5947 cd
20%	11894 cd
30%	17841 cd
40%	23788 cd
50%	29735 cd
60%	35682 cd
70%	41629 cd
80%	47576 cd
90%	53523 cd

Conditions:

Number of c-planes: 72

Candela at center: 59470 cd

ISO lux diagram



3%	17.8 lx
5%	29.7 lx
10%	59.5 lx
30%	178 lx
50%	297 lx

Conditions:

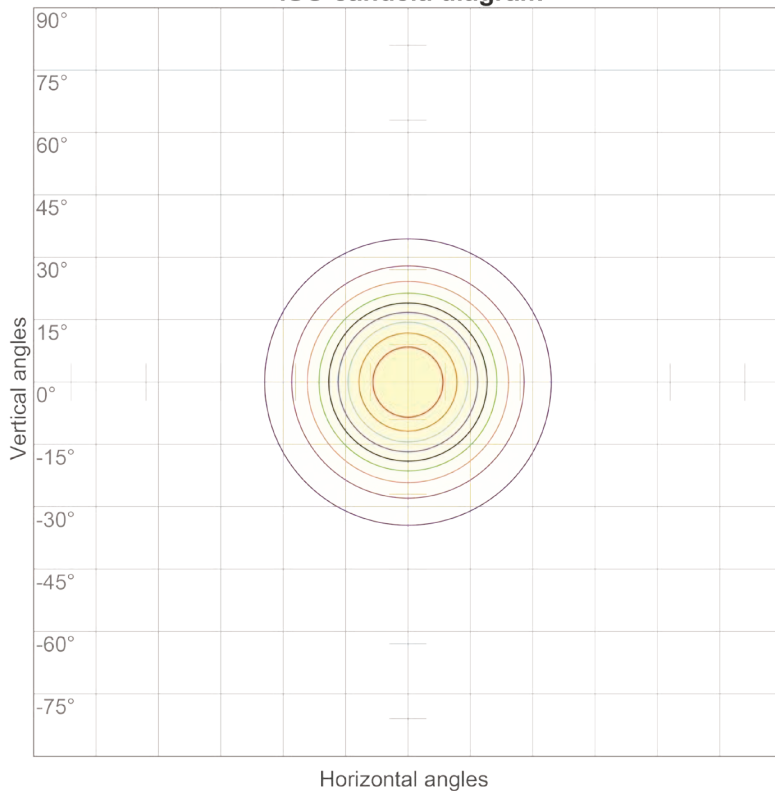
Number of c-planes: 72

Lux at center: 595 lx

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



ISO candela diagram



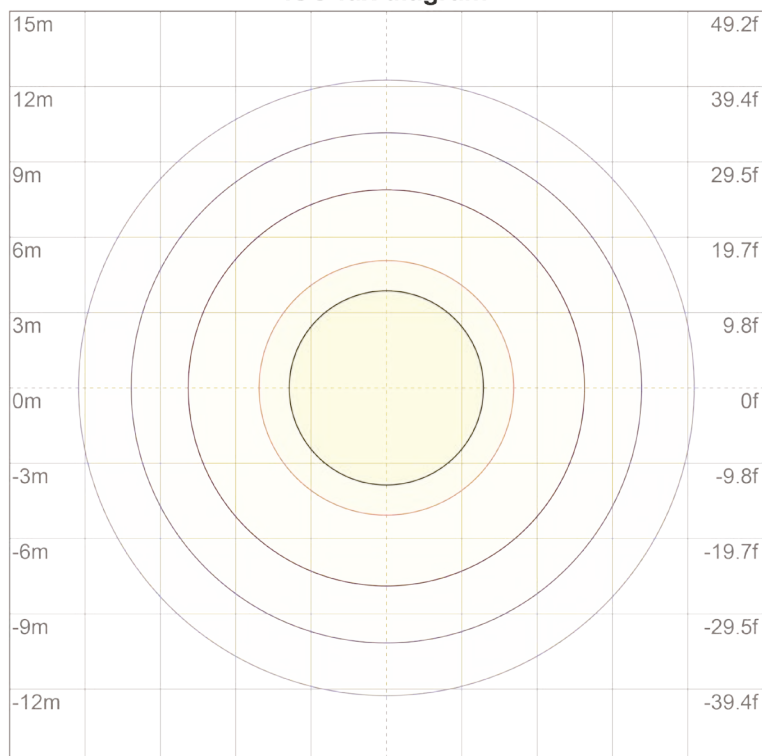
10%	1169 cd
20%	2337 cd
30%	3506 cd
40%	4674 cd
50%	5843 cd
60%	7012 cd
70%	8180 cd
80%	9349 cd
90%	10517 cd

Conditions:

Number of c-planes: 72

Candela at center: 11686 cd

ISO lux diagram



3%	3.51 lx
5%	5.84 lx
10%	11.7 lx
30%	35.1 lx
50%	58.4 lx

Conditions:

Number of c-planes: 72

Lux at center: 117 lx

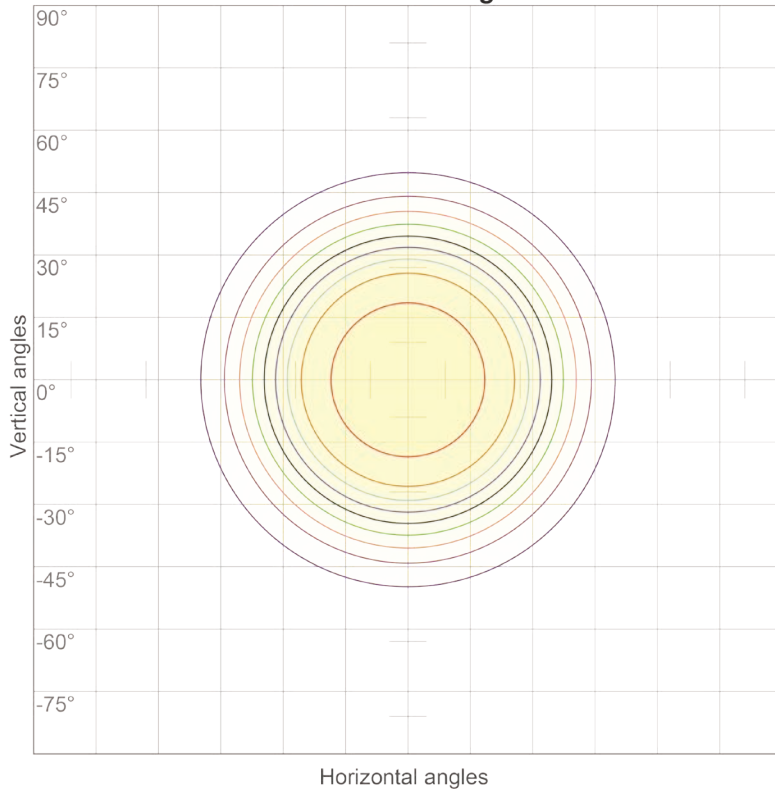
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 36 - RGBA (1700K)

ISO Candela & ISO Lux diagrams with 80° Optics



ISO candela diagram



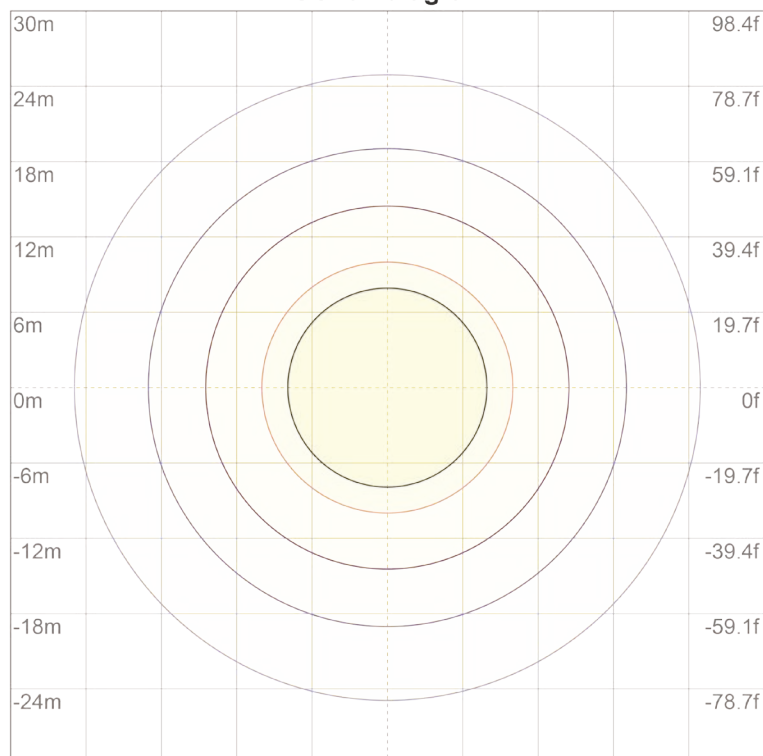
10%	479 cd
20%	958 cd
30%	1437 cd
40%	1916 cd
50%	2395 cd
60%	2874 cd
70%	3353 cd
80%	3832 cd
90%	4310 cd

Conditions:

Number of c-planes: 72

Candela at center: 4789 cd

ISO lux diagram



3%	1.44 lx
5%	2.39 lx
10%	4.79 lx
30%	14.4 lx
50%	23.9 lx

Conditions:

Number of c-planes: 72

Lux at center: 47.9 lx

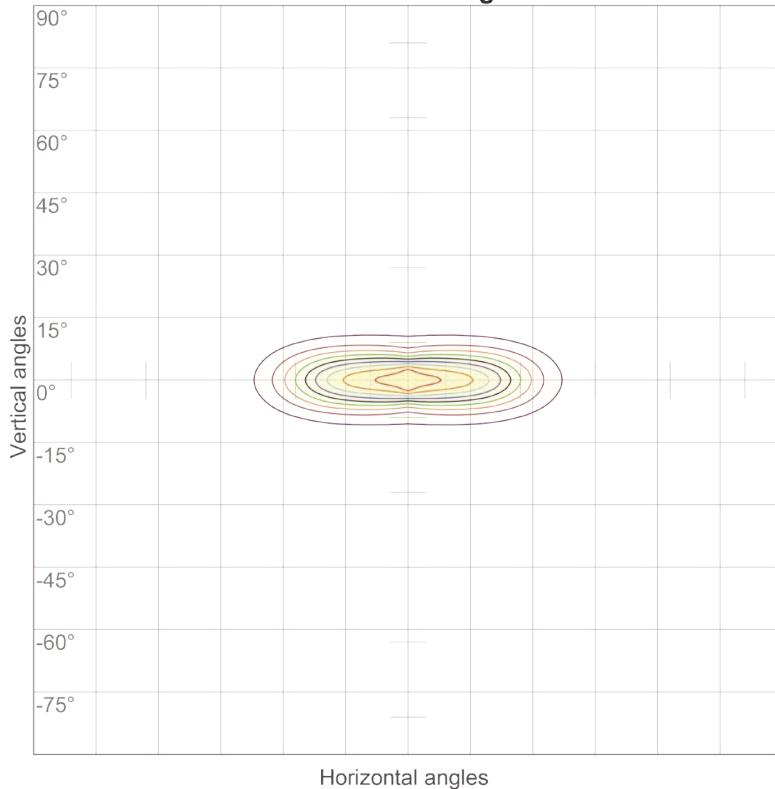
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 36 - RGBA (1700K)

ISO Candela & ISO Lux diagrams with 10x60° & 60x10° Optics



ISO candela diagram



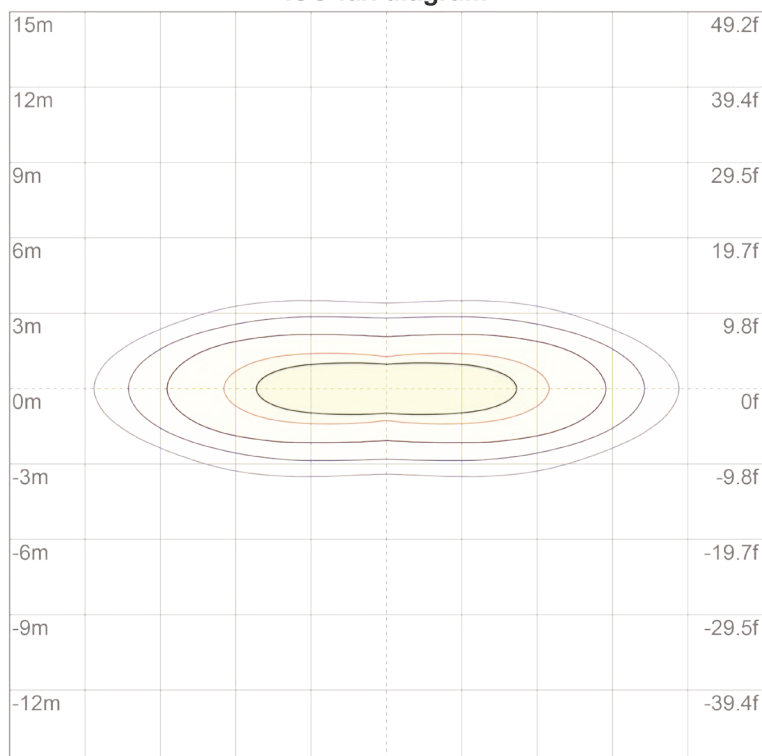
10%	2890 cd
20%	5780 cd
30%	8671 cd
40%	11561 cd
50%	14451 cd
60%	17341 cd
70%	20232 cd
80%	23122 cd
90%	26012 cd

Conditions:

Number of c-planes: 72

Candela at center: 28902 cd

ISO lux diagram



3%	8.67 lx
5%	14.5 lx
10%	28.9 lx
30%	86.7 lx
50%	145 lx

Conditions:

Number of c-planes: 72

Lux at center: 289 lx

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

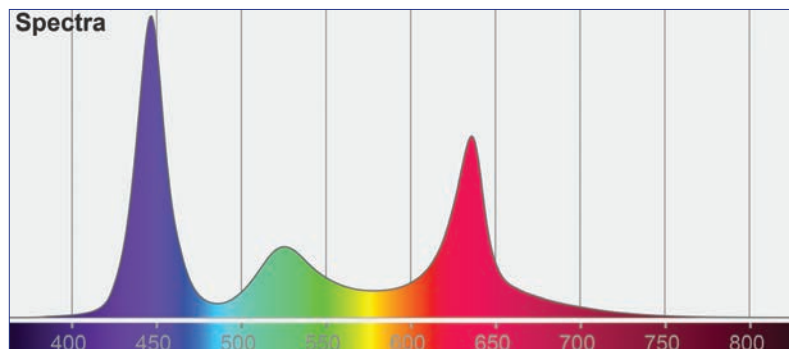
PULSAR

LuxEOS Flood 36 - RGBA (1700K)

Colormetrics **RGBA**



PHOTOMETRIC DATA



Total Lumen Output (Native) : 7748 lm

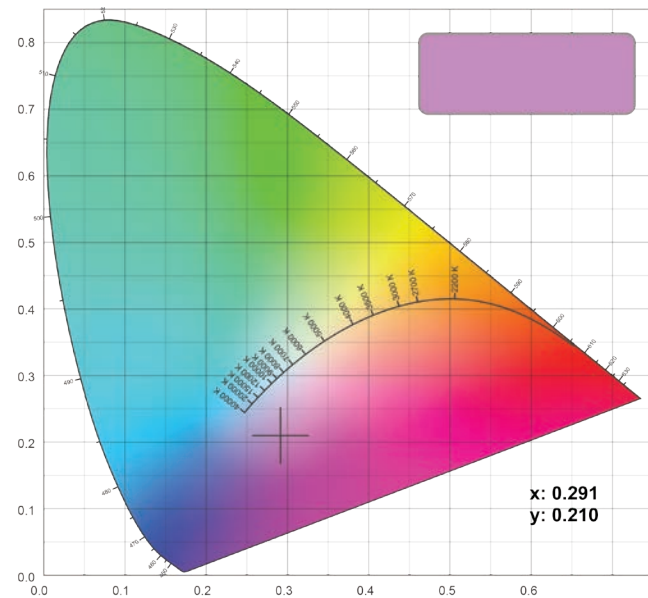
Efficacy : 32.3 lm/W

Voltage : 240V

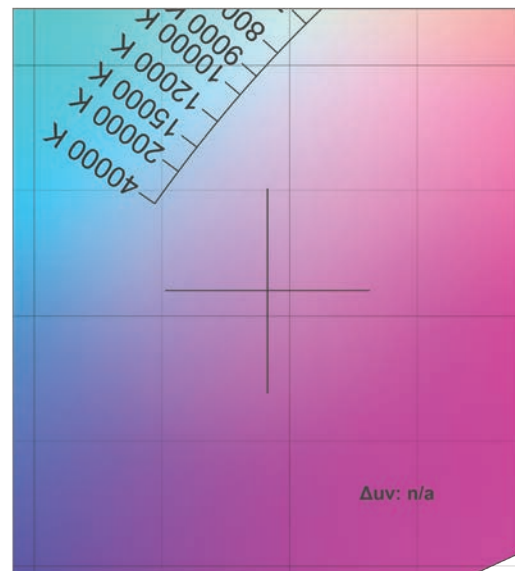
Supply Power : 240W

Supply Power Factor : 0.97

CIE 1931



CIE 1931 Zoom



DW Windsor

Pindar Road, Hoddesdon, EN11 0DX

www.dwwindsor.com | info@dwwindsor.com | +44 (0) 1992 474 600

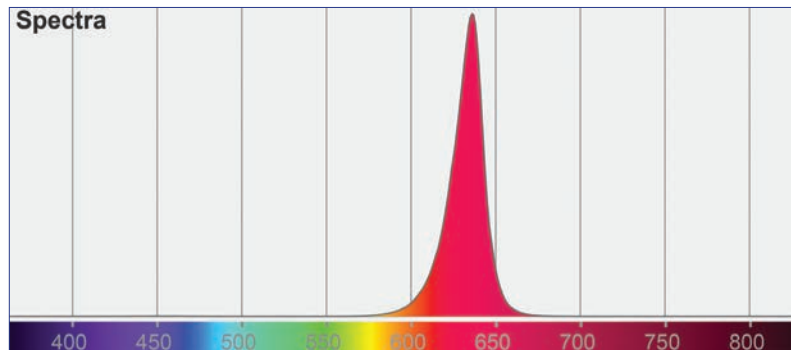
PULSAR

LuxEOS Flood 36 - RGBA (1700K)

Colormetrics **RED**

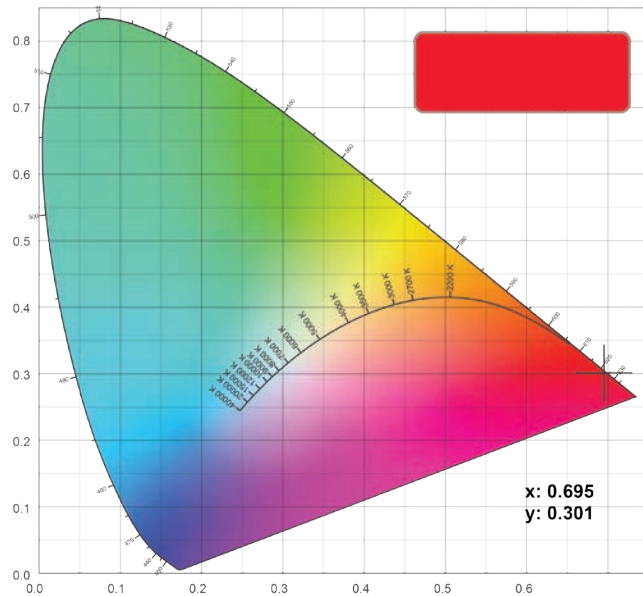


PHOTOMETRIC DATA

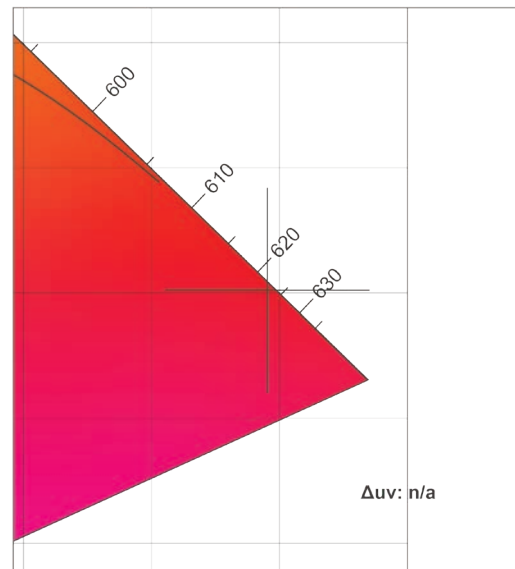


Red Lumen Output : 2108 lm

CIE 1931



CIE 1931 Zoom



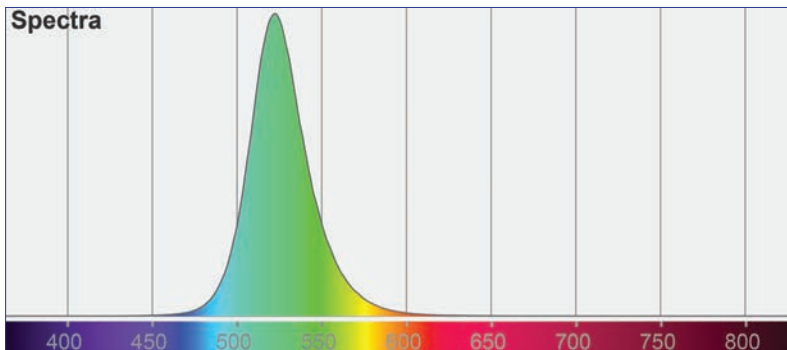
PULSAR

LuxEOS Flood 36 - RGBA (1700K)

Colormetrics **GREEN**

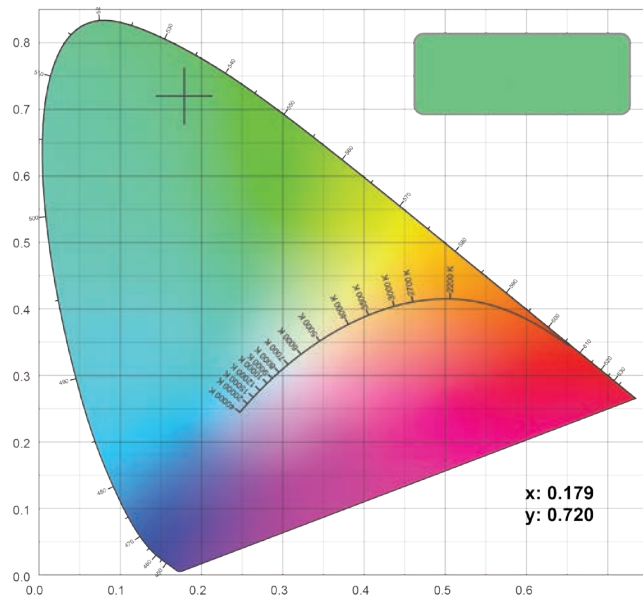


PHOTOMETRIC DATA

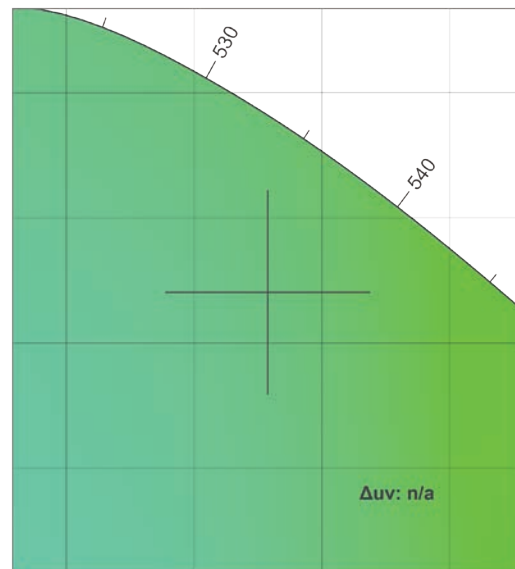


Green Lumen Output : 3236 lm

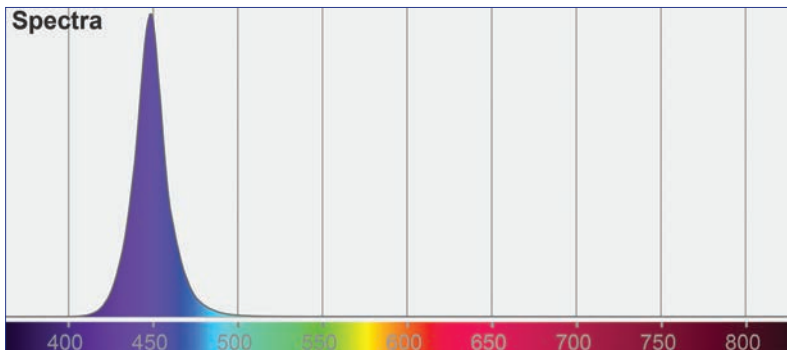
CIE 1931



CIE 1931 Zoom

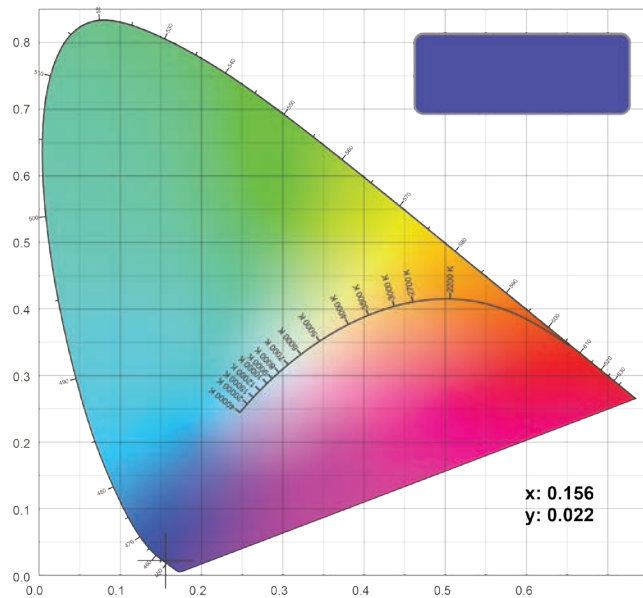


LuxEOS Flood 36 - RGBA (1700K) Colormetrics **BLUE**

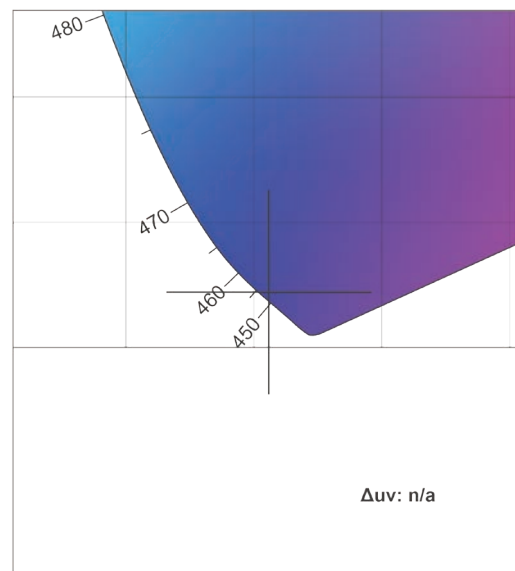


Blue Lumen Output : 712 lm

CIE 1931



CIE 1931 Zoom



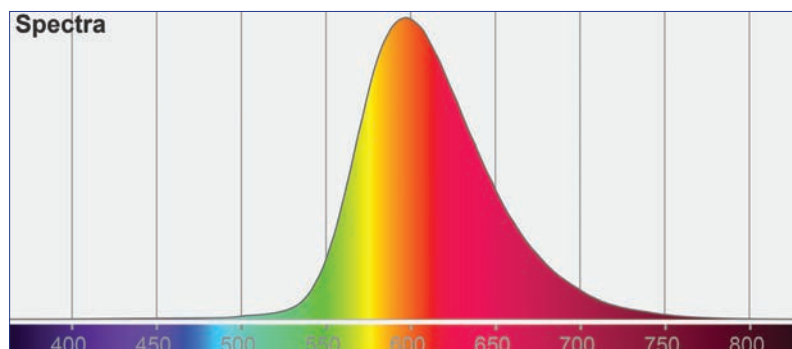
PULSAR

LuxEOS Flood 36 - RGBA (1700K)

Colormetrics **AMBER 1700K**

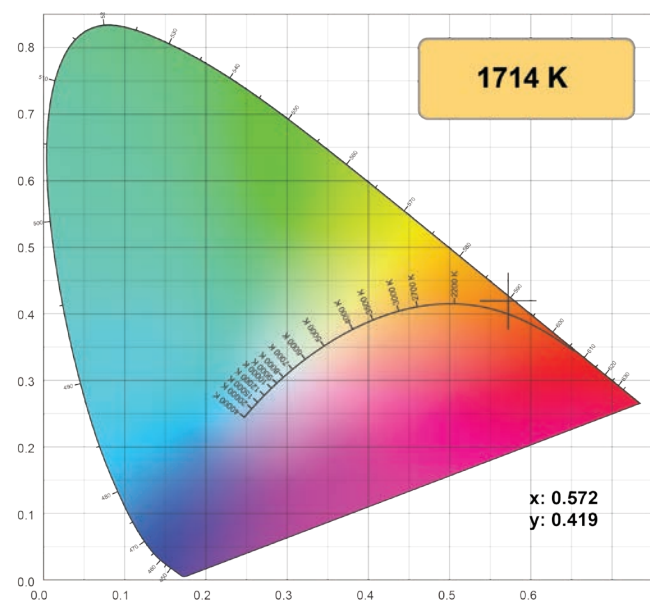


PHOTOMETRIC DATA

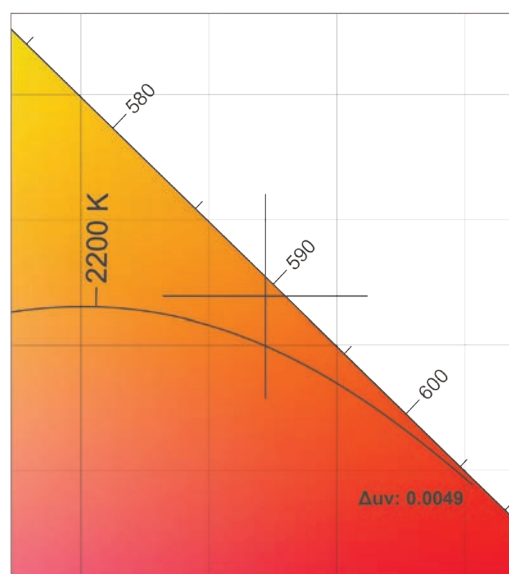


Amber 1700K Lumen Output : 3936 lm

CIE 1931



CIE 1931 Zoom



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

As part of 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.

DW Windsor

Pindar Road, Hoddesdon, EN11 0DX

www.dwwindsor.com | info@dwwindsor.com | +44 (0) 1992 474 600