

LuxEOS Flood 36 VIVID COLOUR

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 36 - RGBW (5700K)
10° 20° 40° 80° 10x60° 60x10°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

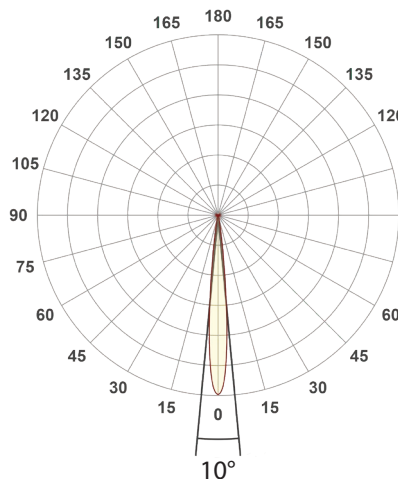
Date
Nov 2020

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

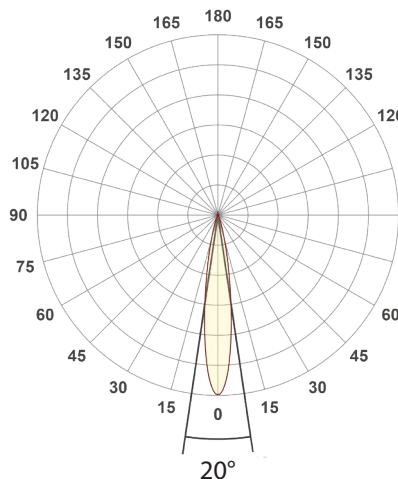
Weight
23 kgs (50.7lbs)

Polar Distribution

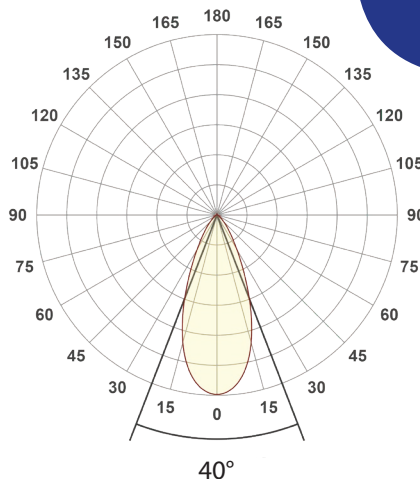
10° Conical Beam (Native)



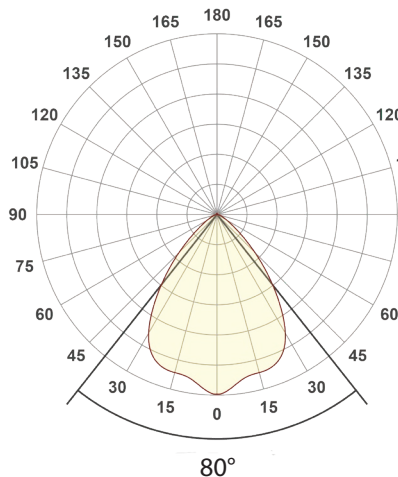
20° Conical Beam (With HBS)



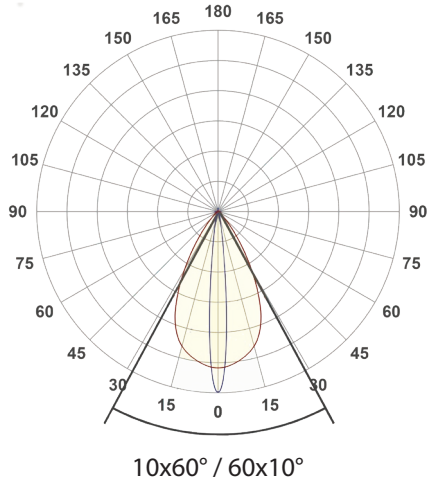
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)

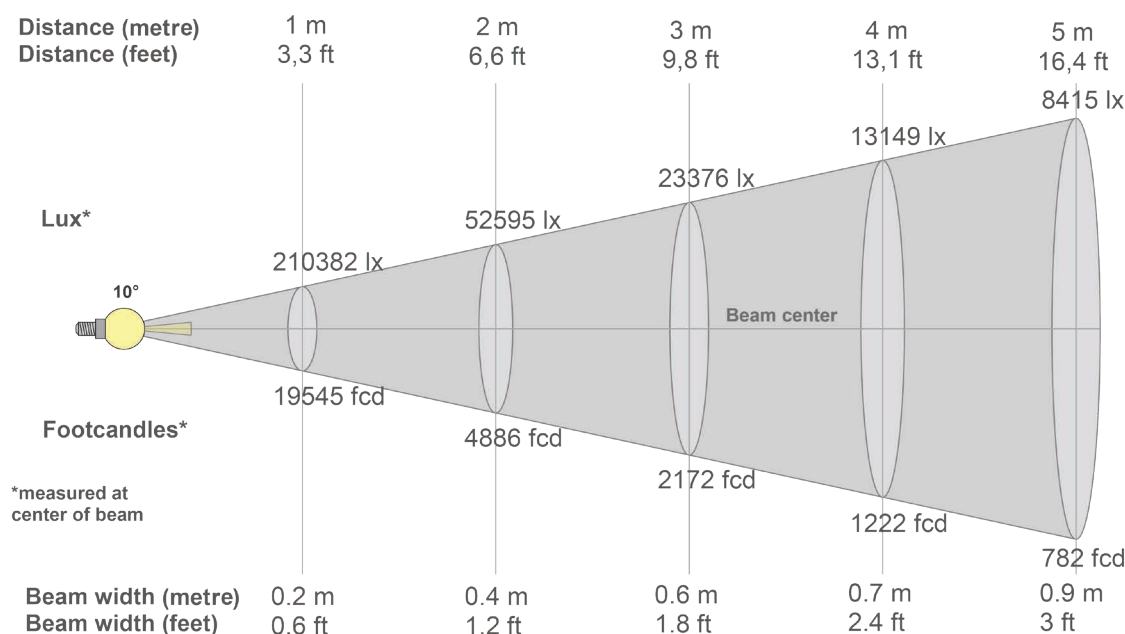


10x60° / 60x10° Elliptical Beam (With HBS)



LuxEOS Flood 36 - RGBW (5700K)

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
210382lx	52595lx	23376lx	13149lx	8415lx	5844lx	4294lx	3287lx	2597lx	2104lx	1739lx	1461lx	1245lx	1073lx	935lx	822lx	728lx	649lx	583lx	526lx
19545.1fc	4886.3fc	2171.7fc	1221.6fc	781.8fc	542.9fc	398.9fc	305.4fc	241.3fc	195.5fc	161.5fc	135.7fc	115.7fc	99.7fc	86.9fc	76.3fc	67.6fc	60.3fc	54.1fc	48.9fc

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°
210K	207K	196K	175K	147K	115K	83K	56K	36K	23K	15K	11K	9K	7K	6K	5K	4K	3K	3K	2K
100%	98%	93%	83%	70%	55%	40%	27%	17%	11%	7%	5%	4%	4%	3%	3%	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°
210K	207K	196K	175K	147K	115K	83K	56K	36K	23K	15K	11K	9K	7K	6K	5K	4K	3K	3K	2K
100%	98%	93%	83%	70%	55%	40%	27%	17%	11%	7%	5%	4%	4%	3%	3%	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°
210K	207K	196K	175K	147K	115K	83K	56K	36K	23K	15K	11K	9K	7K	6K	5K	4K	3K	3K	2K
100%	98%	93%	83%	70%	55%	40%	27%	17%	11%	7%	5%	4%	4%	3%	3%	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°
210K	207K	196K	175K	147K	115K	83K	56K	36K	23K	15K	11K	9K	7K	6K	5K	4K	3K	3K	2K
100%	98%	93%	83%	70%	55%	40%	27%	17%	11%	7%	5%	4%	4%	3%	3%	2%	2%	1%	1%

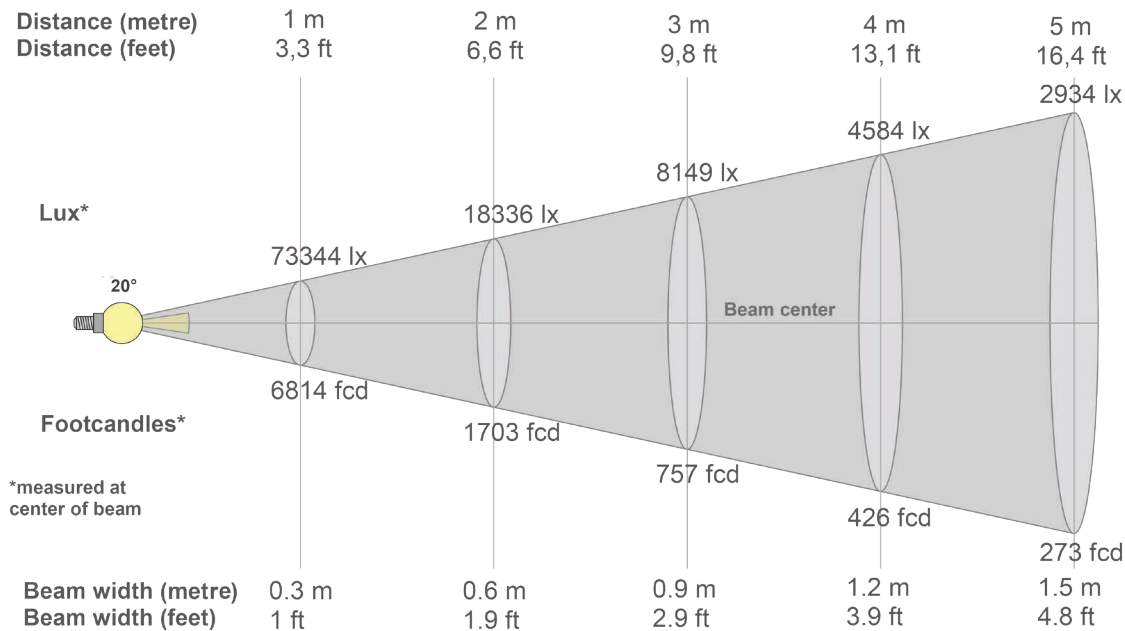
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10.6°	18.4°	30°	98.8%	97.7%

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LuxEOS Flood 36 - RGBW (5700K)

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
73344lx	18336lx	8149lx	4584lx	2934lx	2037lx	1497lx	1146lx	905lx	733lx	606lx	509lx	434lx	374lx	326lx	287lx	254lx	226lx	203lx	183lx
6813.9fc	1703.5fc	757.1fc	425.9fc	272.6fc	189.3fc	139.1fc	106.5fc	84.1fc	68.1fc	56.3fc	47.3fc	40.3fc	34.8fc	30.3fc	26.6fc	23.6fc	21fc	18.9fc	17fc

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°
73.3K	72.7K	70.5K	67.0K	62.4K	57.0K	51.0K	44.9K	38.9K	33.1K	27.9K	23.1K	19.0K	15.5K	12.6K	10.2K	8.2K	6.6K	5.4K	4.4K
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°
73.3K	72.7K	70.5K	67.0K	62.4K	57.0K	51.0K	44.9K	38.9K	33.1K	27.9K	23.1K	19.0K	15.5K	12.6K	10.2K	8.2K	6.6K	5.4K	4.4K
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°
73.3K	72.7K	70.5K	67.0K	62.4K	57.0K	51.0K	44.9K	38.9K	33.1K	27.9K	23.1K	19.0K	15.5K	12.6K	10.2K	8.2K	6.6K	5.4K	4.4K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

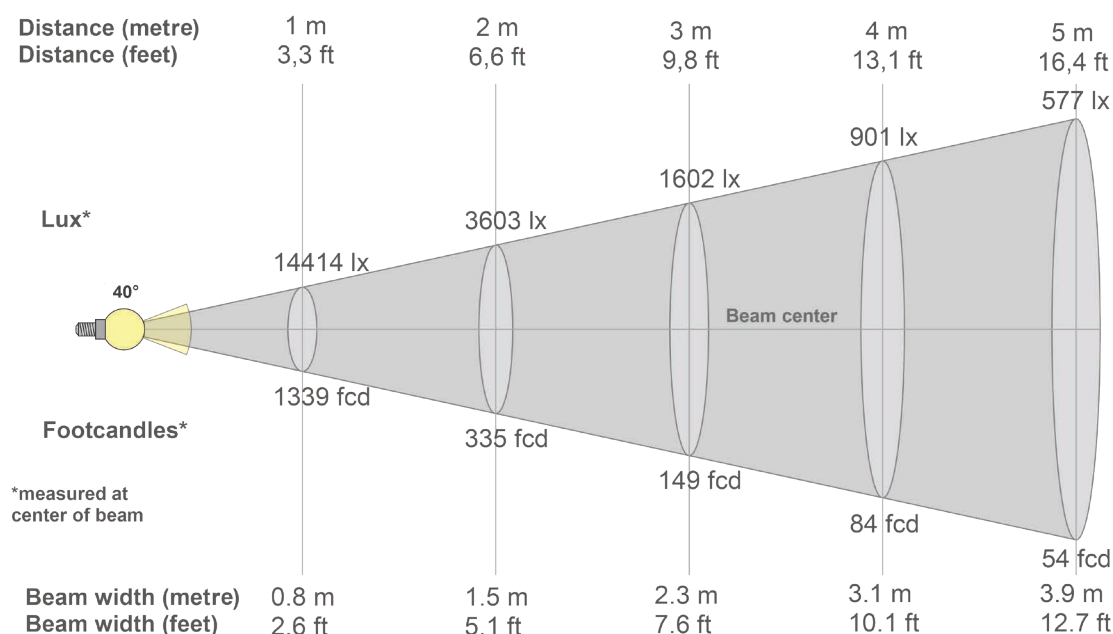
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
73.3K	72.7K	70.5K	67.0K	62.4K	57.0K	51.0K	44.9K	38.9K	33.1K	27.9K	23.1K	19.0K	15.5K	12.6K	10.2K	8.2K	6.6K	5.4K	4.4K
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%

LuxEOS Flood 36 - RGBW (5700K)

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
14414lx	3603lx	1602lx	901lx	577lx	400lx	294lx	225lx	178lx	144lx	119lx	100lx	85lx	74lx	64lx	56lx	50lx	44lx	40lx	36lx
1339.1fc	334.8fc	148.8fc	83.7fc	53.6fc	37.2fc	27.3fc	20.9fc	16.5fc	13.4fc	11.1fc	9.3fc	7.9fc	6.8fc	6fc	5.2fc	4.6fc	4.1fc	3.7fc	3.3fc

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°
14.4K	14.4K	14.2K	13.8K	13.4K	12.8K	12.0K	11.1K	10.1K	9.0K	7.9K	6.7K	5.7K	4.7K	3.9K	3.2K	2.6K	2.2K	1.8K	1.5K
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°
14.4K	14.4K	14.2K	13.8K	13.4K	12.8K	12.0K	11.1K	10.1K	9.0K	7.9K	6.7K	5.7K	4.7K	3.9K	3.2K	2.6K	2.2K	1.8K	1.5K
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°
14.4K	14.4K	14.2K	13.8K	13.4K	12.8K	12.0K	11.1K	10.1K	9.0K	7.9K	6.7K	5.7K	4.7K	3.9K	3.2K	2.6K	2.2K	1.8K	1.5K
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°
14.4K	14.4K	14.2K	13.8K	13.4K	12.8K	12.0K	11.1K	10.1K	9.0K	7.9K	6.7K	5.7K	4.7K	3.9K	3.2K	2.6K	2.2K	1.8K	1.5K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

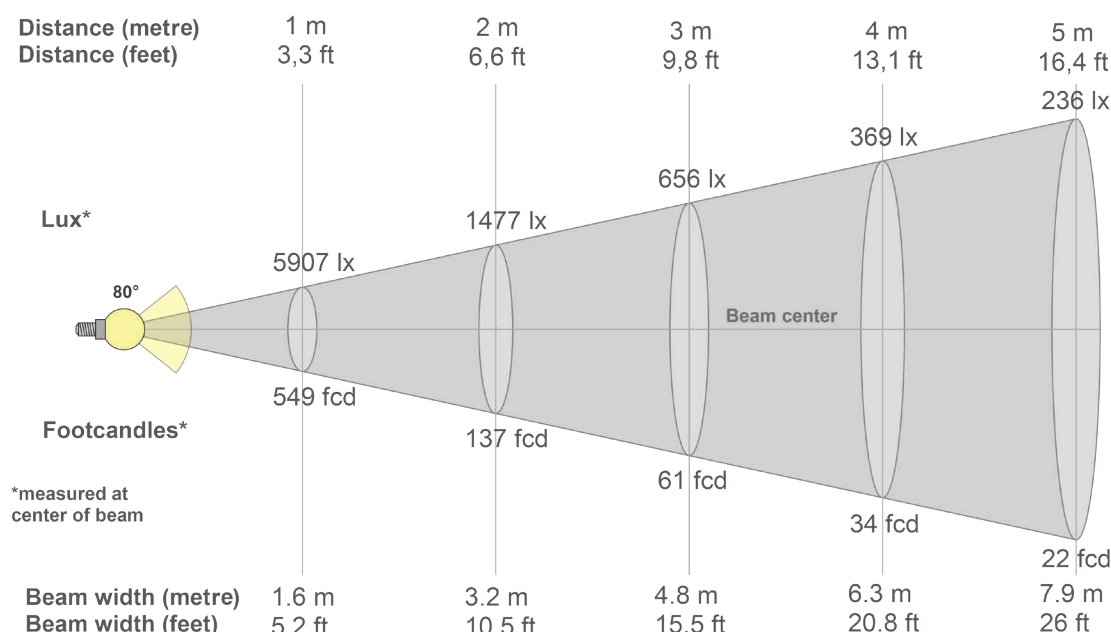
Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.3°	76.6°	105.5°	96.7%	90.9%

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LuxEOS Flood 36 - RGBW (5700K)

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
5907lx	1477lx	656lx	369lx	236lx	164lx	121lx	92lx	73lx	59lx	49lx	41lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
548.8fcd	137.2fcd	61fcd	34.3fcd	22fcd	15.2fcd	11.2fcd	8.6fcd	6.8fcd	5.5fcd	4.5fcd	3.8fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

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°
5907	5712	5443	5385	5328	5075	4505	3615	2649	1769	1066	616	368	233	151	92	45	13	3	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°
5907	5712	5443	5385	5328	5075	4505	3615	2649	1769	1066	616	368	233	151	92	45	13	3	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°
5907	5712	5443	5385	5328	5075	4505	3615	2649	1769	1066	616	368	233	151	92	45	13	3	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°
5907	5712	5443	5385	5328	5075	4505	3615	2649	1769	1066	616	368	233	151	92	45	13	3	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

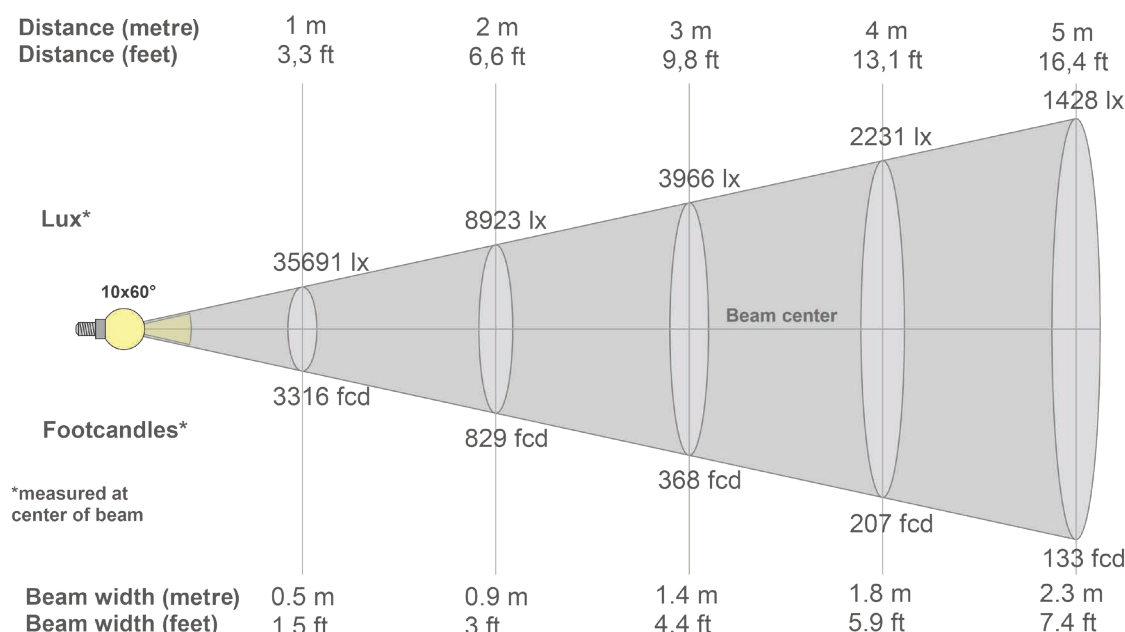
Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76.8°	110.8°	140.5°	95.0%	82.4%

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LuxEOS Flood 36 - RGBW (5700K)

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
35691lx	8923lx	3966lx	2231lx	1428lx	991lx	728lx	558lx	441lx	357lx	295lx	248lx	211lx	182lx	159lx	139lx	123lx	110lx	99lx	89lx
3315.8fc	828.9fc	368.4fc	207.2fc	132.6fc	92.1fc	67.7fc	51.8fc	40.9fc	33.2fc	27.4fc	23fc	19.6fc	16.9fc	14.7fc	13fc	11.5fc	10.2fc	9.2fc	8.3fc

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°
35.7K	33.5K	33.2K	32.8K	32.3K	31.8K	31.1K	30.4K	29.4K	28.1K	26.5K	24.6K	22.3K	19.7K	17.0K	14.4K	11.8K	9.5K	7.4K	5.6K
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°
35.7K	35.3K	26.1K	15.7K	8.5K	5.0K	3.4K	2.4K	1.7K	1.2K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K	0.3K	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°
35.7K	33.5K	33.2K	32.8K	32.3K	31.8K	31.1K	30.4K	29.4K	28.1K	26.5K	24.6K	22.3K	19.7K	17.0K	14.4K	11.8K	9.5K	7.4K	5.6K
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°
35.7K	35.3K	26.1K	15.7K	8.5K	5.0K	3.4K	2.4K	1.7K	1.2K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K	0.3K	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%

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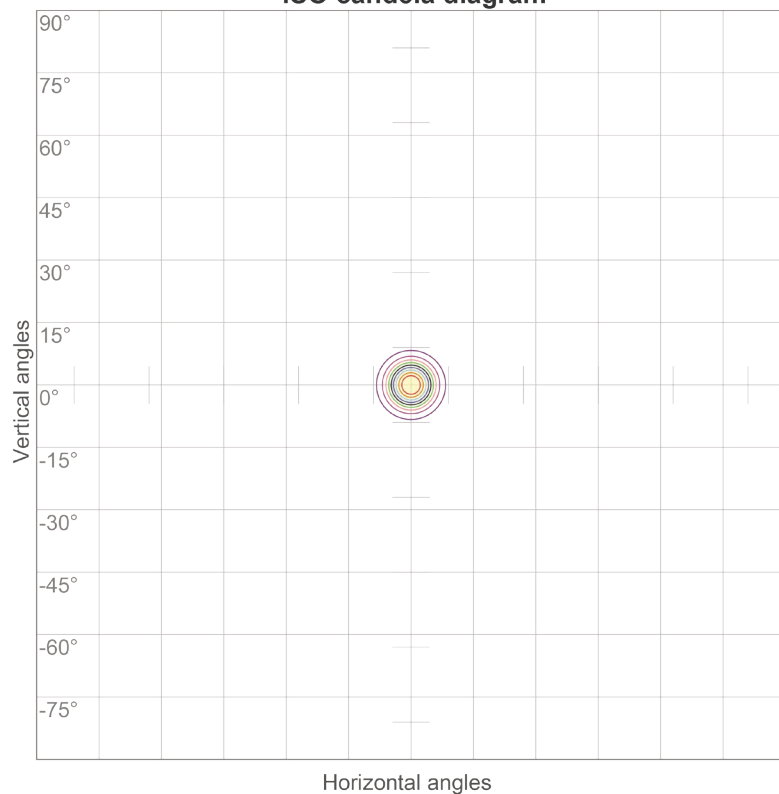
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LuxEOS Flood 36 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 10° Optics



ISO candela diagram



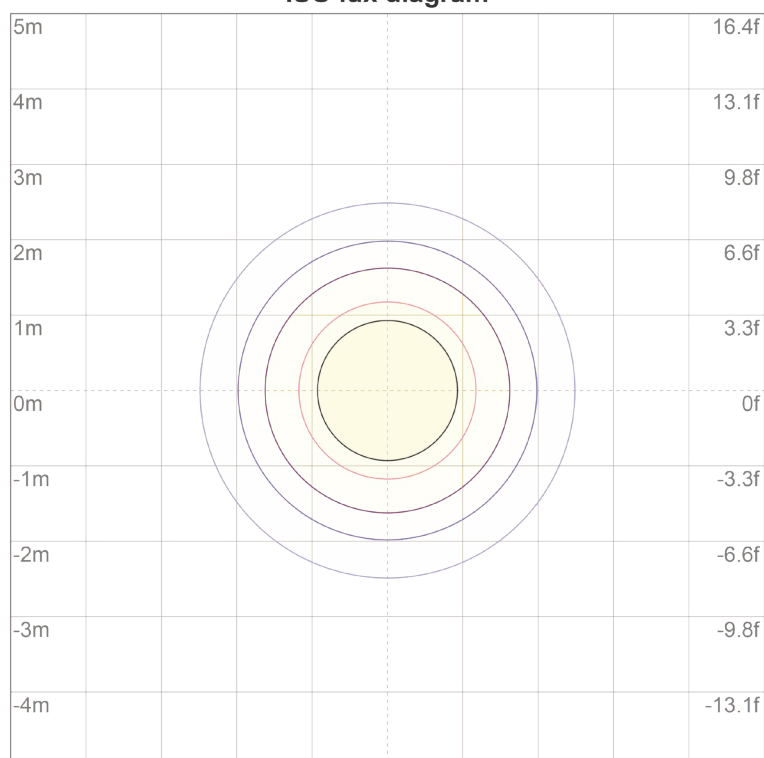
10%	21038 cd
20%	42076 cd
30%	63114 cd
40%	84153 cd
50%	105191 cd
60%	126229 cd
70%	147267 cd
80%	168305 cd
90%	189343 cd

Conditions:

Number of c-planes: 72

Candela at center: 210382 cd

ISO lux diagram



3%	63.1 lx
5%	105 lx
10%	210 lx
30%	631 lx
50%	1052 lx

Conditions:

Number of c-planes: 72

Lux at center: 2104 lx

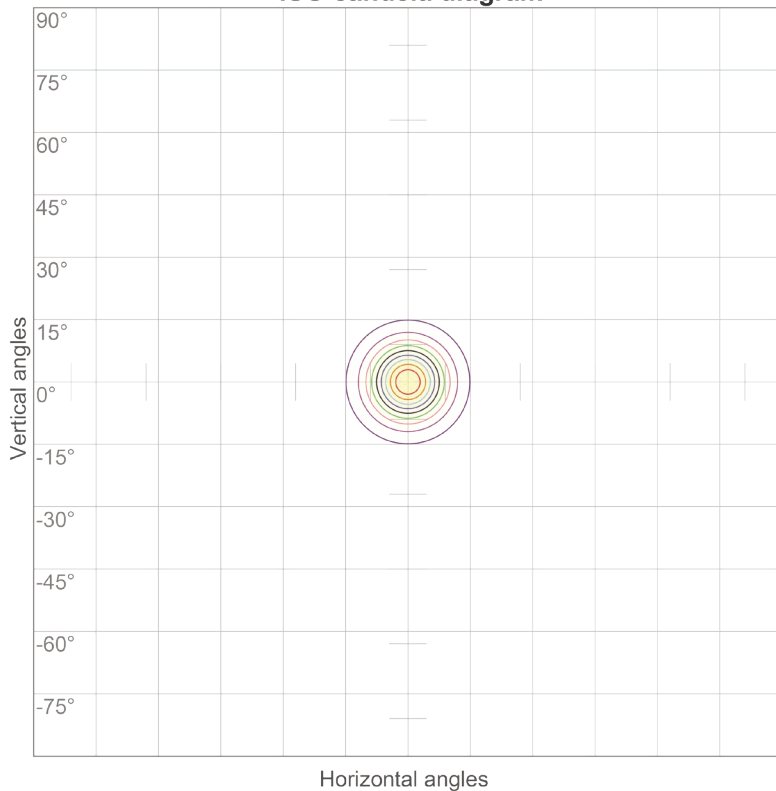
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 36 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 20° Optics



ISO candela diagram



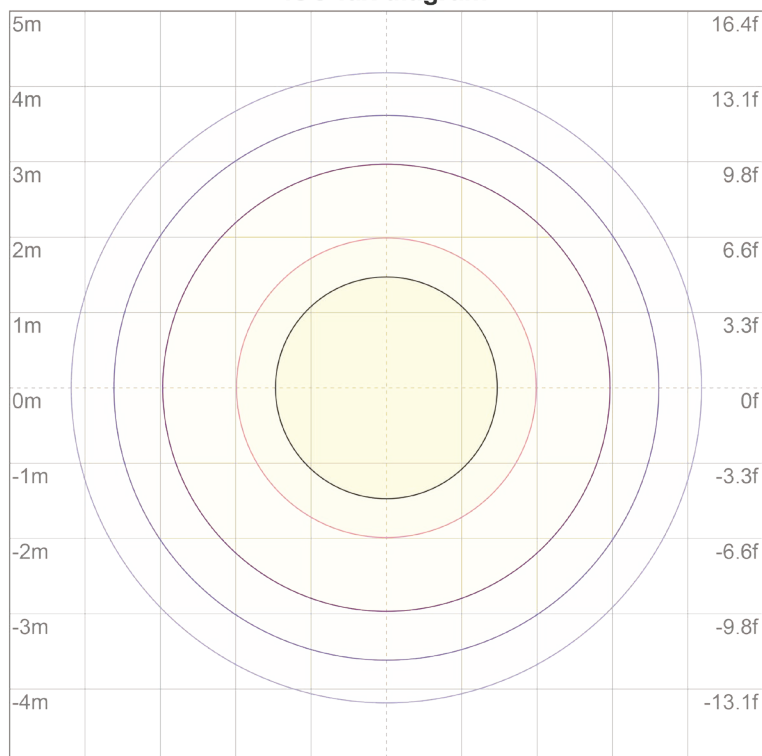
10%	7334 cd
20%	14669 cd
30%	22003 cd
40%	29338 cd
50%	36672 cd
60%	44007 cd
70%	51341 cd
80%	58675 cd
90%	66010 cd

Conditions:

Number of c-planes: 72

Candela at center: 73344 cd

ISO lux diagram



3%	22.0 lx
5%	36.7 lx
10%	73.3 lx
30%	220 lx
50%	367 lx

Conditions:

Number of c-planes: 72

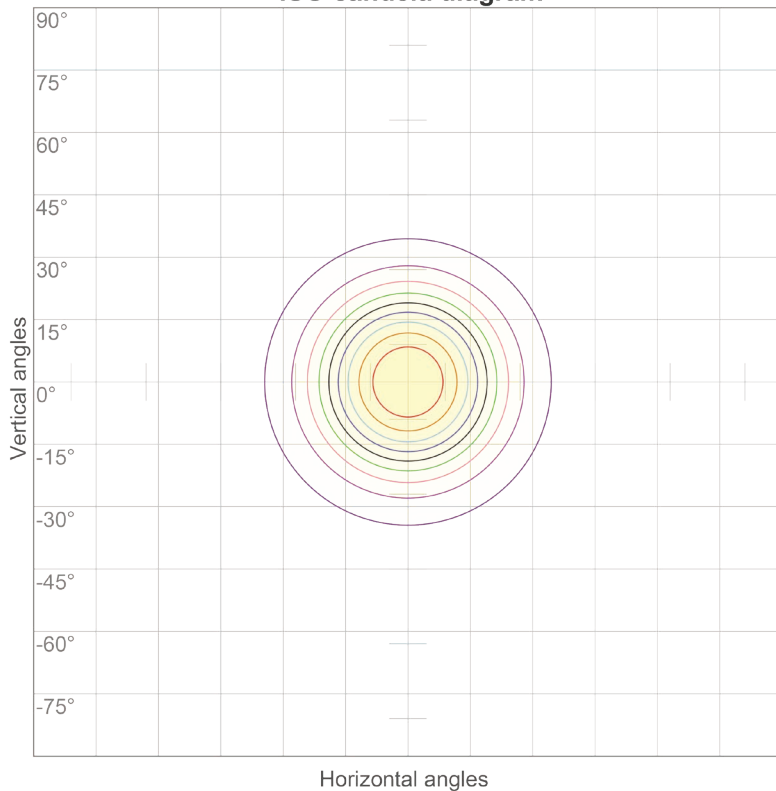
Lux at center: 733 lx

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

LuxEOS Flood 36 - RGBW (5700K) ISO Candela & ISO Lux diagrams with 40° Optics



ISO candela diagram



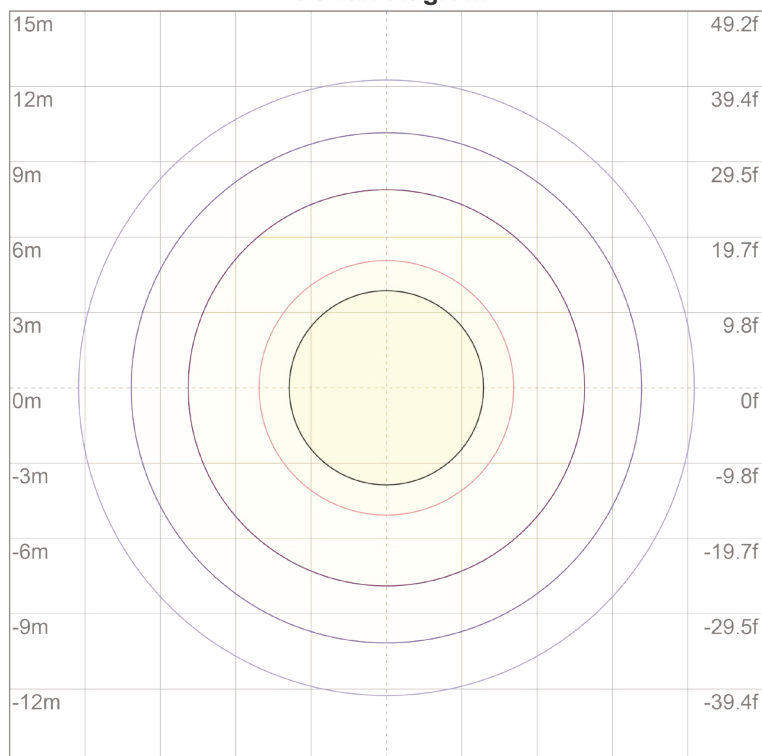
10%	1441 cd
20%	2883 cd
30%	4324 cd
40%	5765 cd
50%	7207 cd
60%	8648 cd
70%	10089 cd
80%	11531 cd
90%	12972 cd

Conditions:

Number of c-planes: 72

Candela at center: 14414 cd

ISO lux diagram



3%	4.32 lx
5%	7.21 lx
10%	14.4 lx
30%	43.2 lx
50%	72.1 lx

Conditions:

Number of c-planes: 72

Lux at center: 144 lx

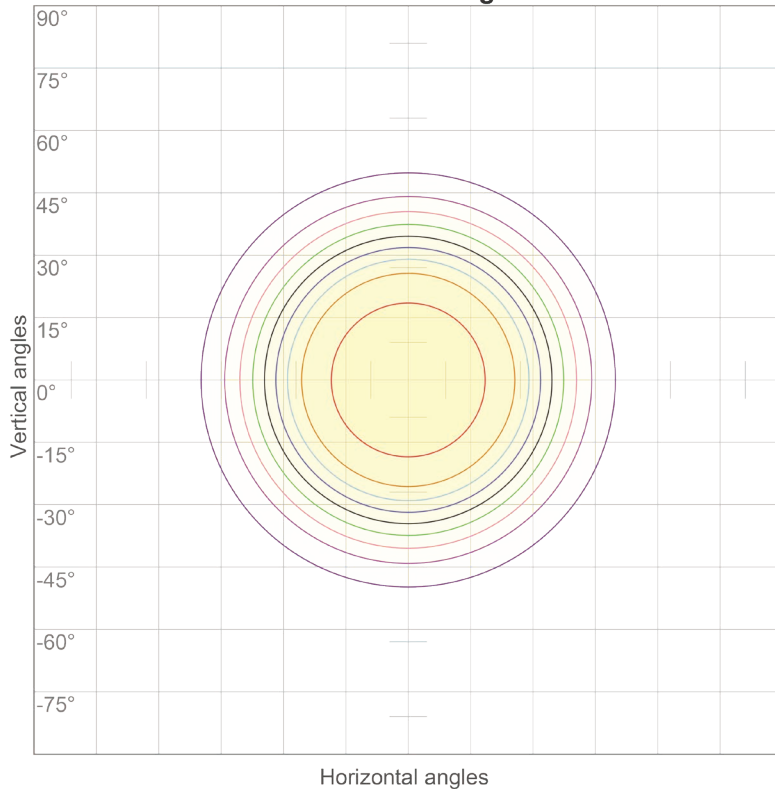
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 36 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 80° Optics



ISO candela diagram



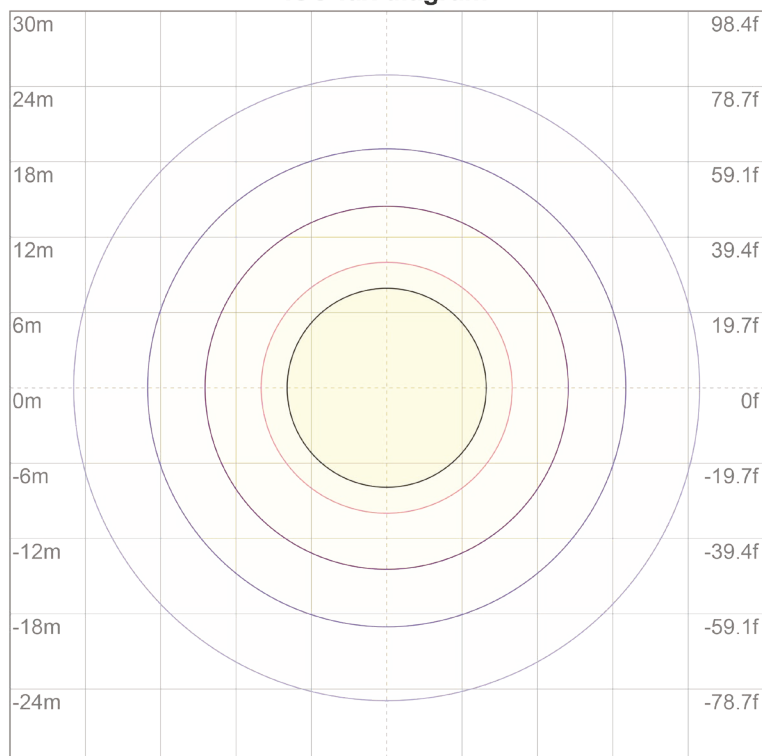
10%	591 cd
20%	1181 cd
30%	1772 cd
40%	2363 cd
50%	2954 cd
60%	3544 cd
70%	4135 cd
80%	4726 cd
90%	5317 cd

Conditions:

Number of c-planes: 72

Candela at center: 5907 cd

ISO lux diagram



3%	1.77 lx
5%	2.95 lx
10%	5.91 lx
30%	17.7 lx
50%	29.5 lx

Conditions:

Number of c-planes: 72

Lux at center: 59.1 lx

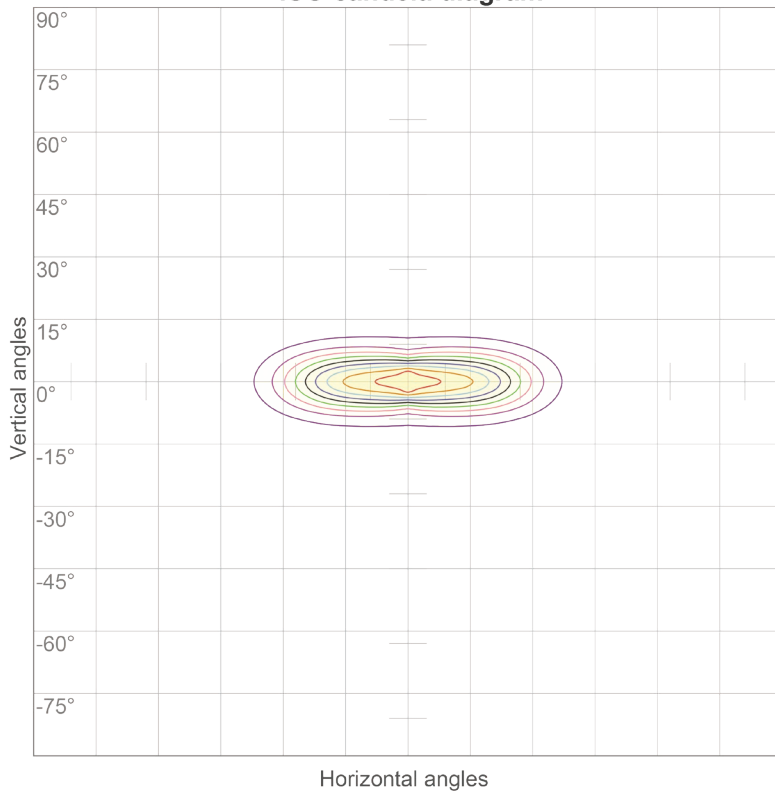
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 36 - RGBW (5700K)

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



ISO candela diagram



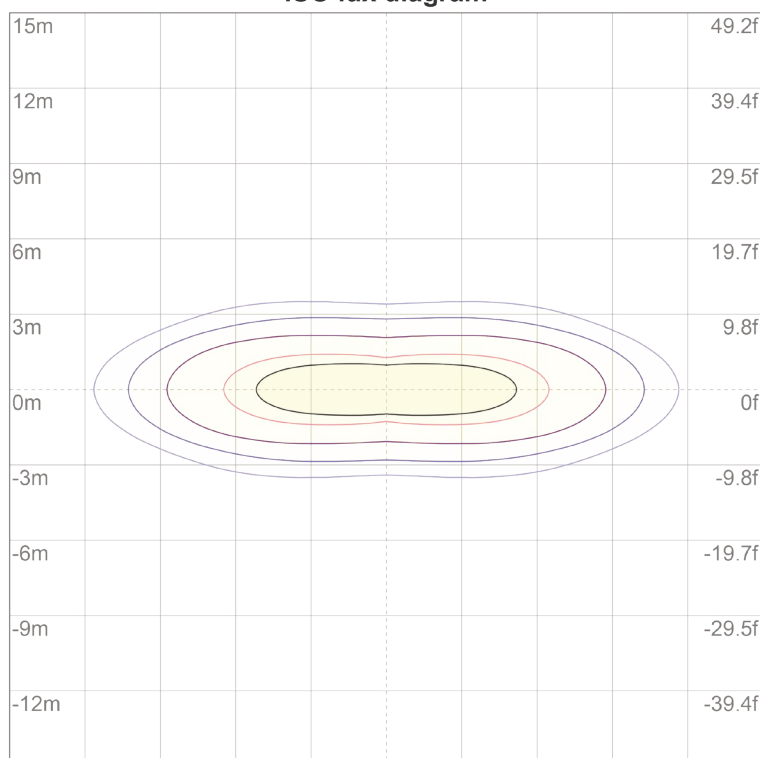
10%	3569 cd
20%	7138 cd
30%	10707 cd
40%	14276 cd
50%	17845 cd
60%	21414 cd
70%	24984 cd
80%	28553 cd
90%	32122 cd

Conditions:

Number of c-planes: 72

Candela at center: 35691 cd

ISO lux diagram



3%	10.7 lx
5%	17.8 lx
10%	35.7 lx
30%	107 lx
50%	178 lx

Conditions:

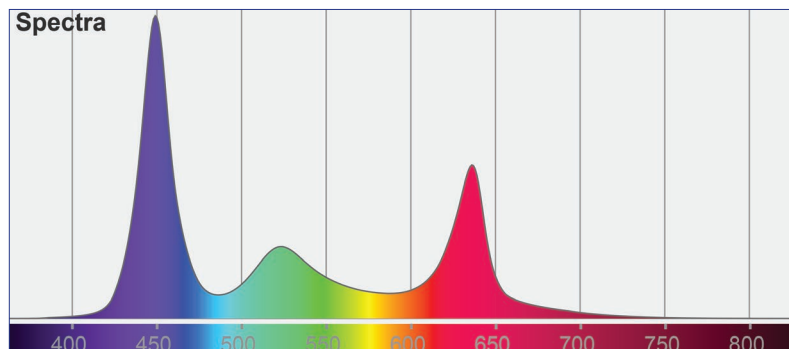
Number of c-planes: 72

Lux at center: 357 lx

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

LuxEOS Flood 36 - RGBW (5700K)

Colormetrics **RGBW**



Total Lumen Output (Native) : 9556 lm

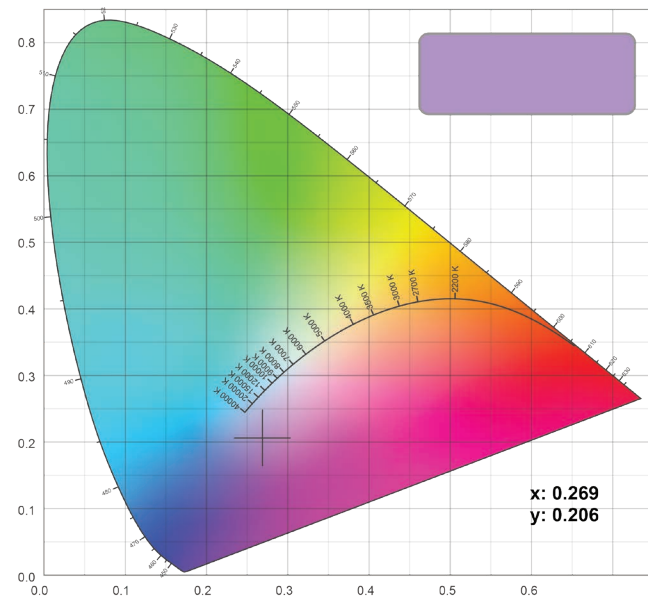
Efficacy : 39.81 lm/W

Voltage : 240V

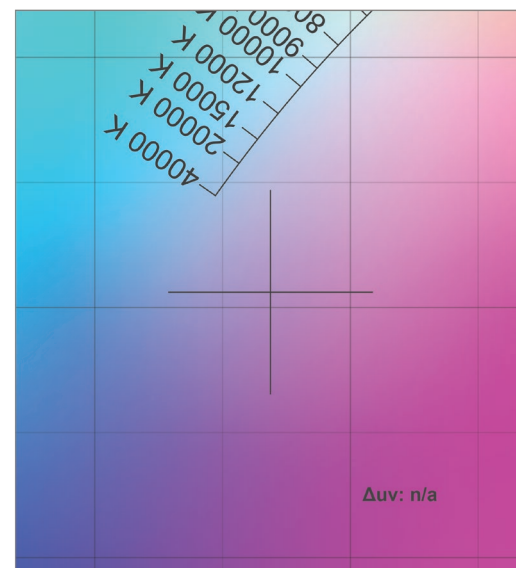
Supply Power : 240W

Supply Power Factor : 0.97

CIE 1931

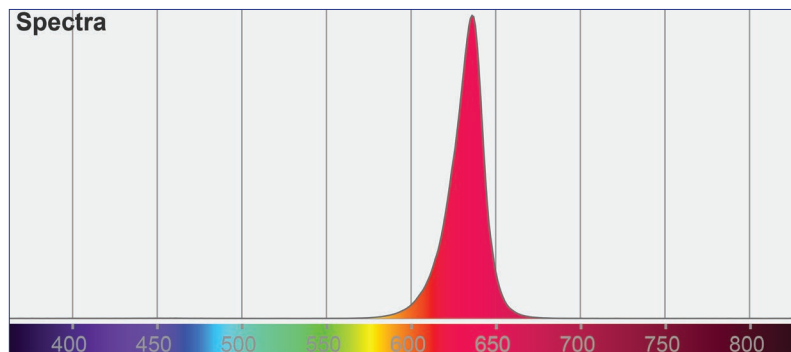


CIE 1931 Zoom



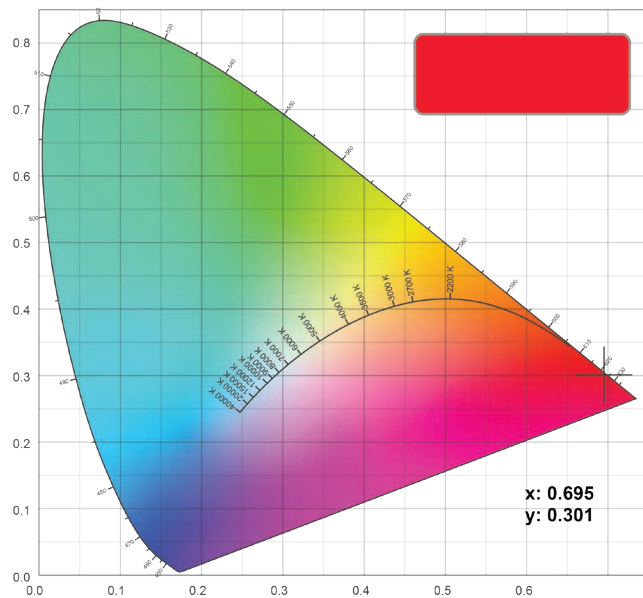
LuxEOS Flood 36 - RGBW (5700K)

Colormetrics **RED**

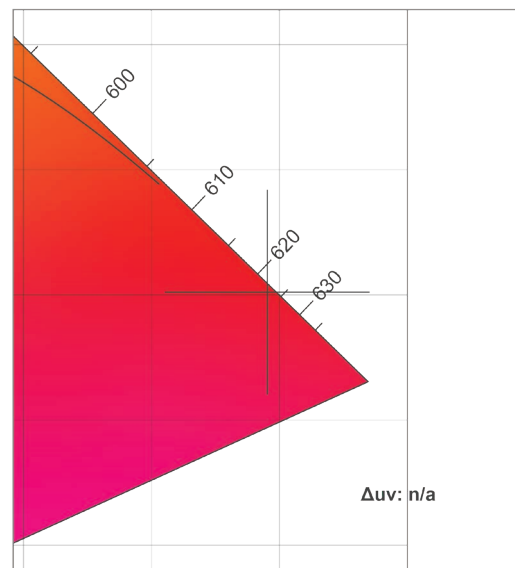


Red Lumen Output : 2108 lm

CIE 1931

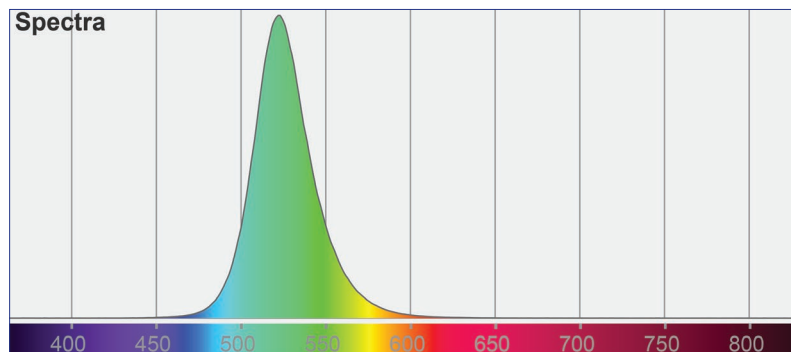


CIE 1931 Zoom



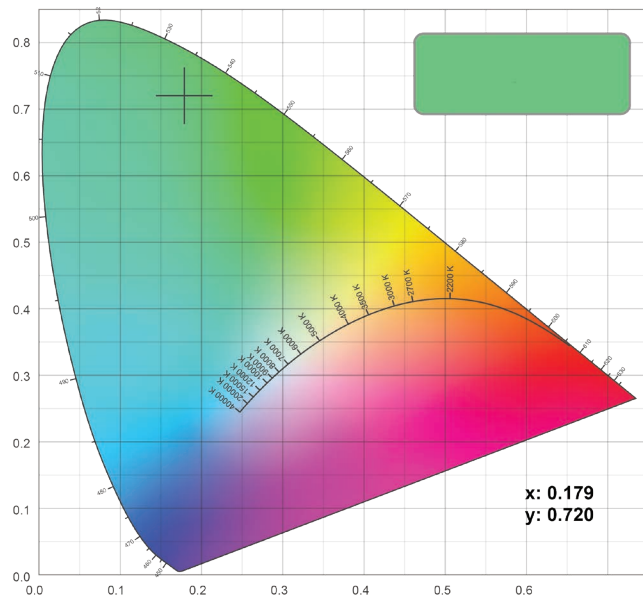
LuxEOS Flood 36 - RGBW (5700K)

Colormetrics **GREEN**

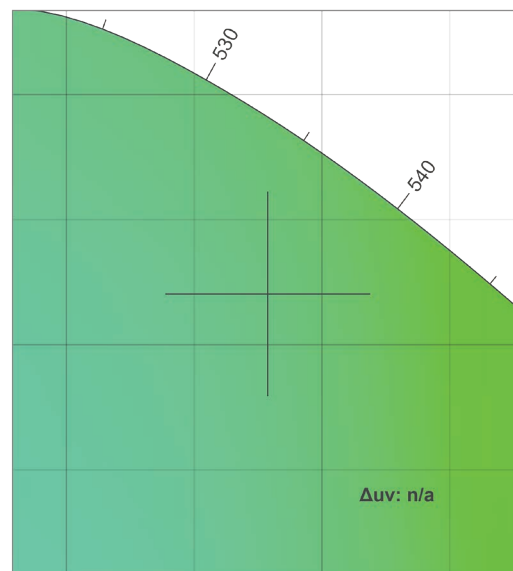


Green Lumen Output : 3236 lm

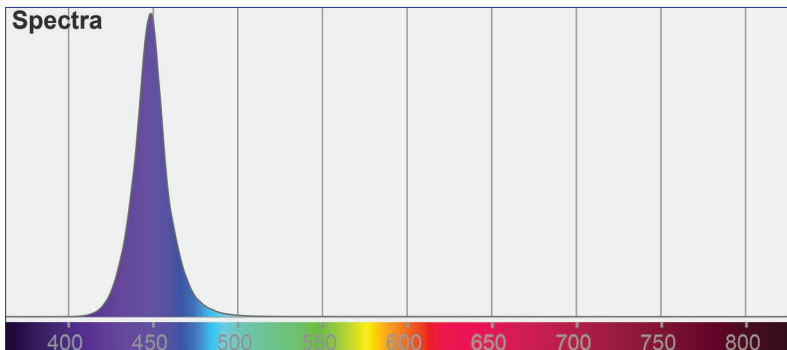
CIE 1931



CIE 1931 Zoom

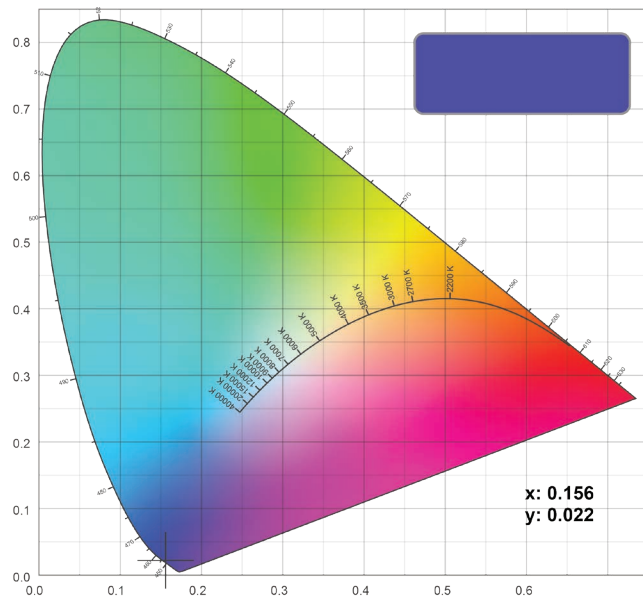


LuxEOS Flood 36 - RGBW (5700K) Colormetrics **BLUE**

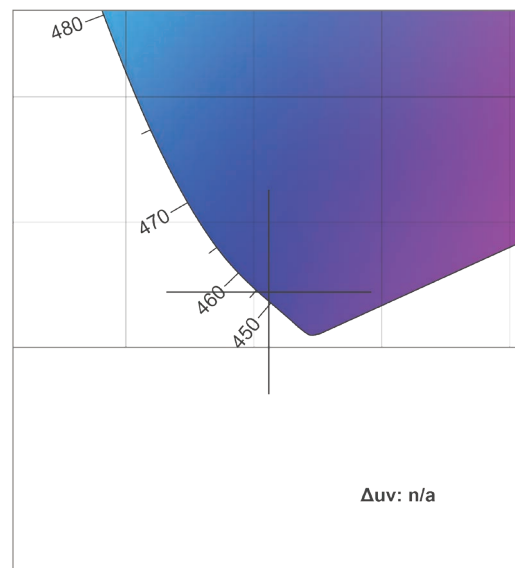


Blue Lumen Output : 712 lm

CIE 1931

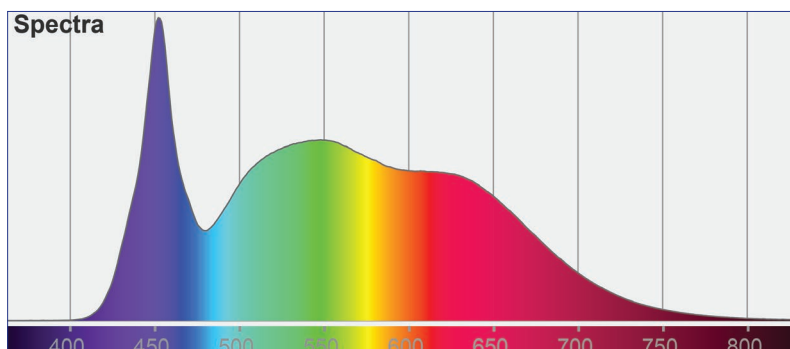


CIE 1931 Zoom



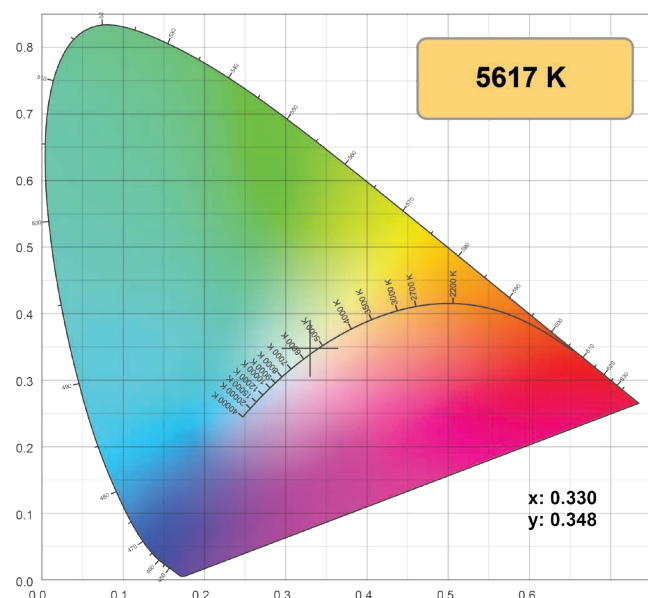
LuxEOS Flood 36 - RGBW (5700K)

Colormetrics **WHITE 5700K**

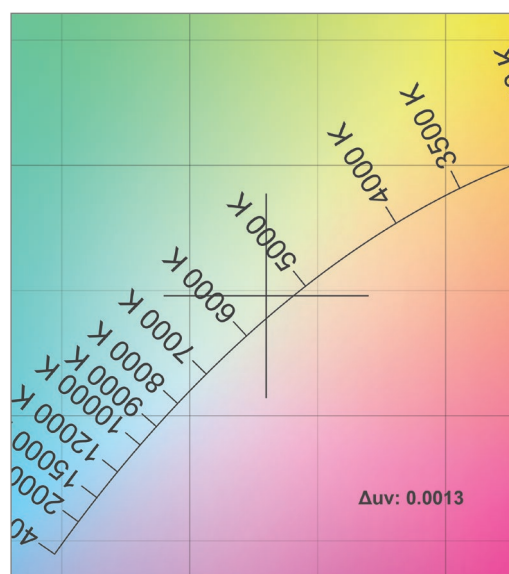


White 5700K Lumen Output : 5804 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract.

PULSAR

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