

LuxEOS Flood 9 TUNABLE WHITE

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 9 - TW (1700-5700K)
10° 20° 40° 80° 10x60° 60x10°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

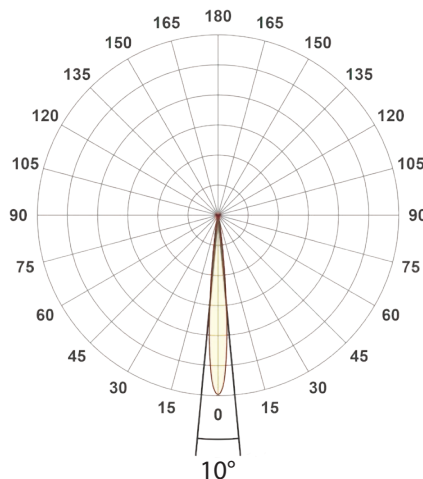
Date
Nov 2020

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

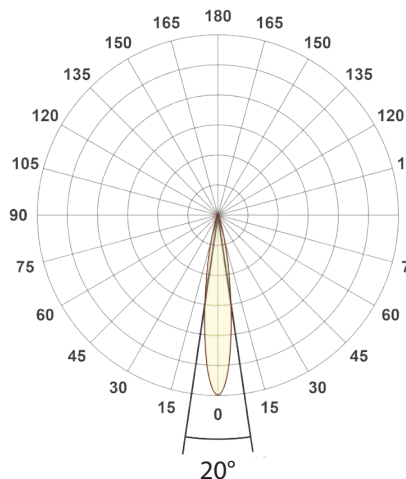
Weight
7.2 kgs (15.9lbs)

Polar Distribution

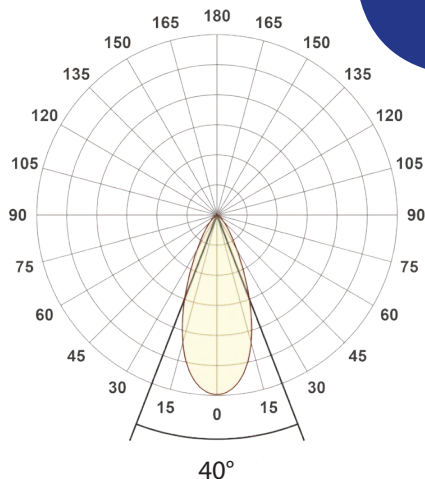
10° Conical Beam (Native)



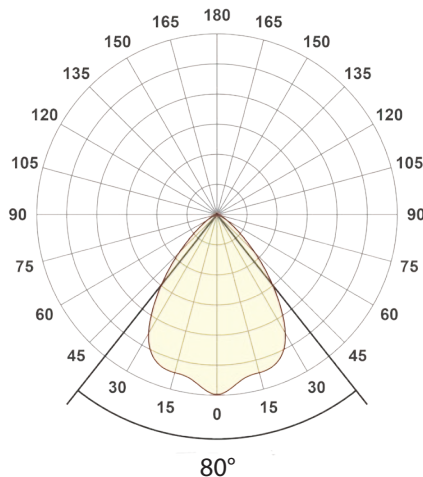
20° Conical Beam (With HBS)



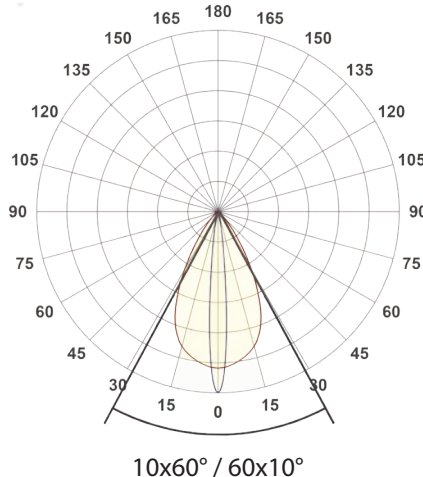
40° Conical Beam (With HBS)



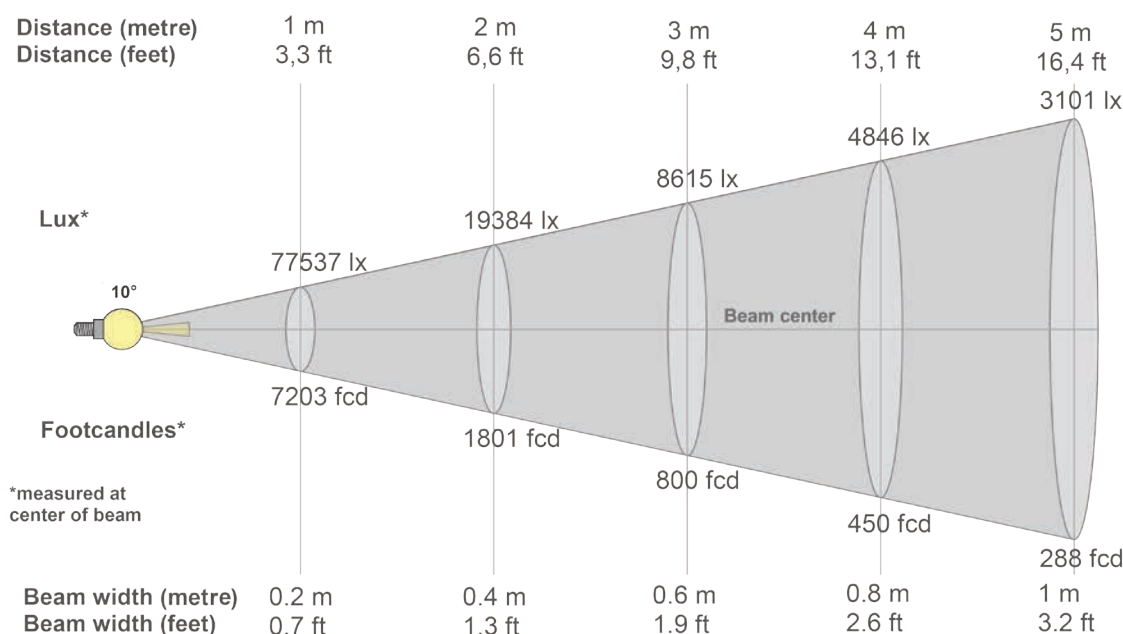
80° Conical Beam (With HBS)



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



LuxEOS Flood 9 - TW (1700-5700K)
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
7753ix	19384ix	8615ix	4846ix	3101ix	2154ix	1582ix	1212ix	957ix	775ix	641ix	538ix	459ix	396ix	345ix	303ix	268ix	239ix	215ix	194ix
7203.5fc	1800.9fc	800.4fc	450.2fc	288.1fc	200.1fc	147fc	112.6fc	88.9fc	72fc	59.5fc	50fc	42.6fc	36.8fc	32fc	28.1fc	24.9fc	22.2fc	20fc	18fc

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°
77.5K	76.5K	73.5K	68.1K	59.1K	46.9K	34.1K	23.0K	14.8K	9.3K	6.1K	4.2K	3.2K	2.6K	2.2K	1.8K	1.5K	1.2K	1.0K	0.9K
100%	99%	95%	88%	76%	61%	44%	30%	19%	12%	8%	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°
77.5K	76.5K	73.5K	68.1K	59.1K	46.9K	34.1K	23.0K	14.8K	9.3K	6.1K	4.2K	3.2K	2.6K	2.2K	1.8K	1.5K	1.2K	1.0K	0.9K
100%	99%	95%	88%	76%	61%	44%	30%	19%	12%	8%	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°
77.5K	76.5K	73.5K	68.1K	59.1K	46.9K	34.1K	23.0K	14.8K	9.3K	6.1K	4.2K	3.2K	2.6K	2.2K	1.8K	1.5K	1.2K	1.0K	0.9K
100%	99%	95%	88%	76%	61%	44%	30%	19%	12%	8%	5%	4%	3%	3%	2%	2%	2%	1%	1%

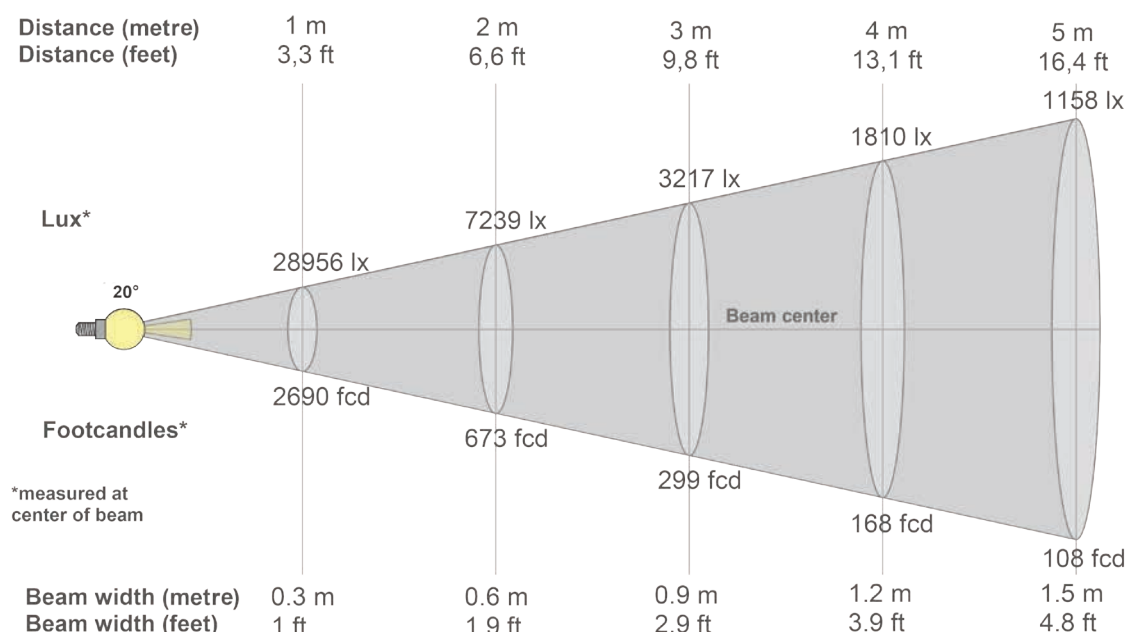
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
77.5K	76.5K	73.5K	68.1K	59.1K	46.9K	34.1K	23.0K	14.8K	9.3K	6.1K	4.2K	3.2K	2.6K	2.2K	1.8K	1.5K	1.2K	1.0K	0.9K
100%	99%	95%	88%	76%	61%	44%	30%	19%	12%	8%	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
11.3°	18.8°	29.4°	97.5%	96.0%

LuxEOS Flood 9 - TW (1700-5700K)

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
28956lx	7239lx	3217lx	1810lx	1158lx	804lx	591lx	452lx	357lx	290lx	239lx	201lx	171lx	148lx	129lx	113lx	100lx	89lx	80lx	72lx
2690.1fc	672.5fc	298.9fc	168.1fc	107.6fc	74.7fc	54.9fc	42fc	33.2fc	26.9fc	22.2fc	18.7fc	15.9fc	13.7fc	12fc	10.5fc	9.3fc	8.3fc	7.5fc	6.7fc

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°
29.0K	28.7K	27.8K	26.5K	24.6K	22.5K	20.1K	17.7K	15.4K	13.1K	11.0K	9.1K	7.5K	6.1K	5.0K	4.0K	3.2K	2.6K	2.1K	1.7K
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°
29.0K	28.7K	27.8K	26.5K	24.6K	22.5K	20.1K	17.7K	15.4K	13.1K	11.0K	9.1K	7.5K	6.1K	5.0K	4.0K	3.2K	2.6K	2.1K	1.7K
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°
29.0K	28.7K	27.8K	26.5K	24.6K	22.5K	20.1K	17.7K	15.4K	13.1K	11.0K	9.1K	7.5K	6.1K	5.0K	4.0K	3.2K	2.6K	2.1K	1.7K
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°
29.0K	28.7K	27.8K	26.5K	24.6K	22.5K	20.1K	17.7K	15.4K	13.1K	11.0K	9.1K	7.5K	6.1K	5.0K	4.0K	3.2K	2.6K	2.1K	1.7K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

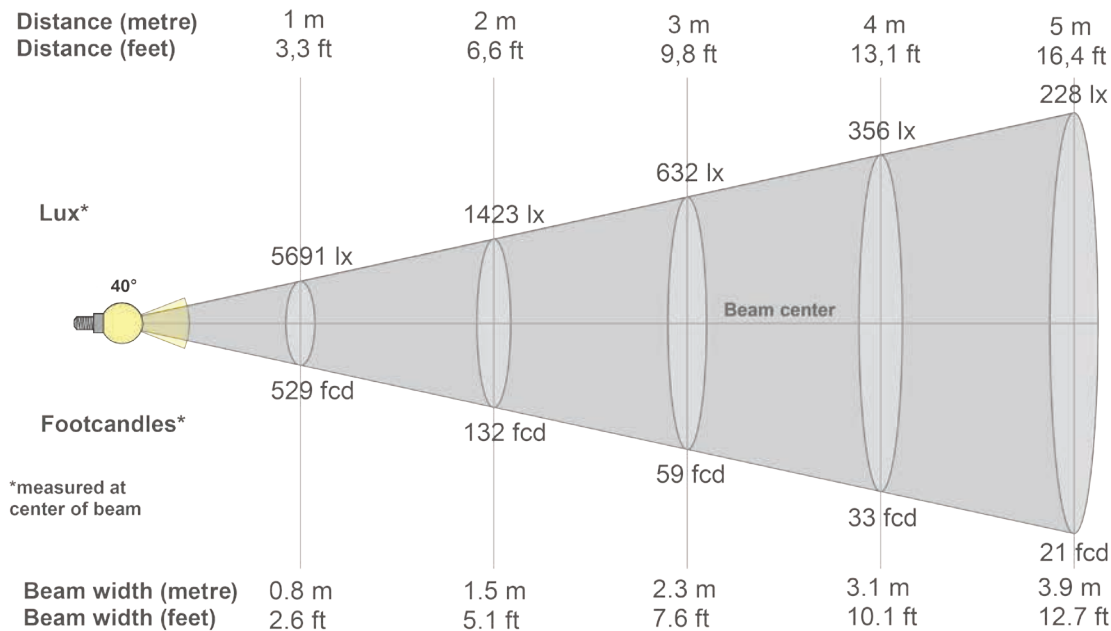
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

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LuxEOS Flood 9 - TW (1700-5700K)

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
5691lx	1423lx	632lx	356lx	228lx	158lx	116lx	89lx	70lx	57lx	47lx	40lx	34lx	29lx	25lx	22lx	20lx	18lx	16lx	14lx
528.7fcd	132.2fcd	58.7fcd	33fcd	21.1fcd	14.7fcd	10.8fcd	8.3fcd	6.5fcd	5.3fcd	4.4fcd	3.7fcd	3.1fcd	2.7fcd	2.3fcd	2.1fcd	1.8fcd	1.6fcd	1.5fcd	1.3fcd

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°
5691	5668	5590	5461	5276	5034	4736	4383	3985	3553	3103	2657	2236	1857	1532	1261	1039	858	709	586
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°
5691	5668	5590	5461	5276	5034	4736	4383	3985	3553	3103	2657	2236	1857	1532	1261	1039	858	709	586
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°
5691	5668	5590	5461	5276	5034	4736	4383	3985	3553	3103	2657	2236	1857	1532	1261	1039	858	709	586
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°
5691	5668	5590	5461	5276	5034	4736	4383	3985	3553	3103	2657	2236	1857	1532	1261	1039	858	709	586
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

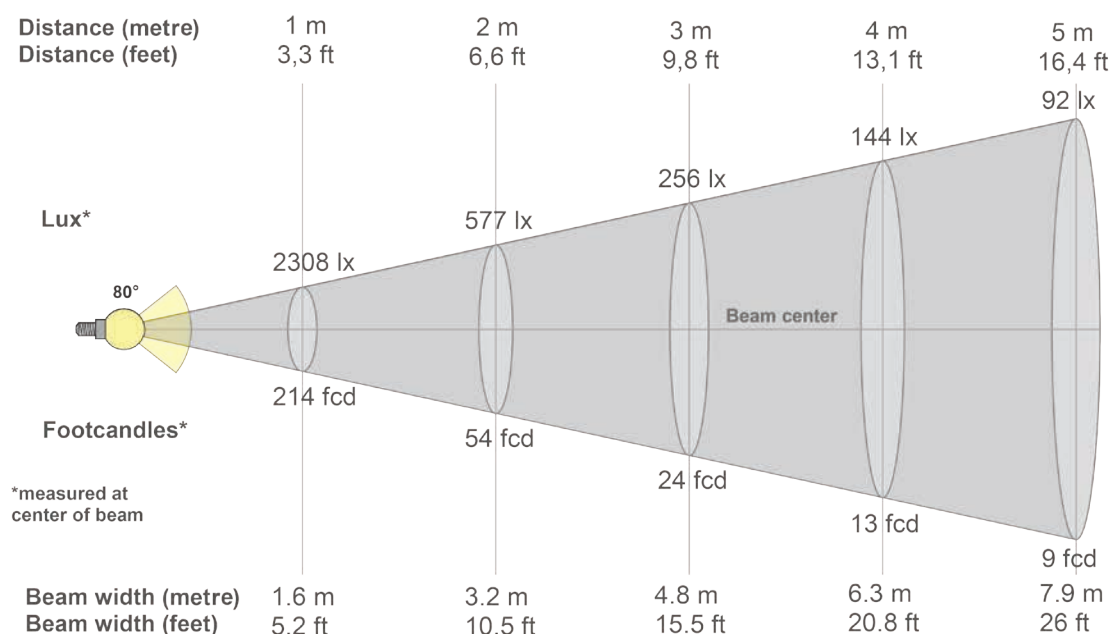
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.3°	76.6°	105.5°	96.7%	90.9%

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LuxEOS Flood 9 - TW (1700-5700K)

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
2308lx	577lx	256lx	144lx	92lx	64lx	47lx	36lx	28lx	23lx	19lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
214.5fcd	53.6fcd	23.8fcd	13.4fcd	8.8fcd	6fcd	4.4fcd	3.4fcd	2.6fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.7fcd	0.6fcd	0.5fcd

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°
2308	2232	2127	2104	2082	1983	1761	1413	1035	691	417	241	144	91	59	36	18	5	1	1
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°
2308	2232	2127	2104	2082	1983	1761	1413	1035	691	417	241	144	91	59	36	18	5	1	1
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°
2308	2232	2127	2104	2082	1983	1761	1413	1035	691	417	241	144	91	59	36	18	5	1	1
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°
2308	2232	2127	2104	2082	1983	1761	1413	1035	691	417	241	144	91	59	36	18	5	1	1
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

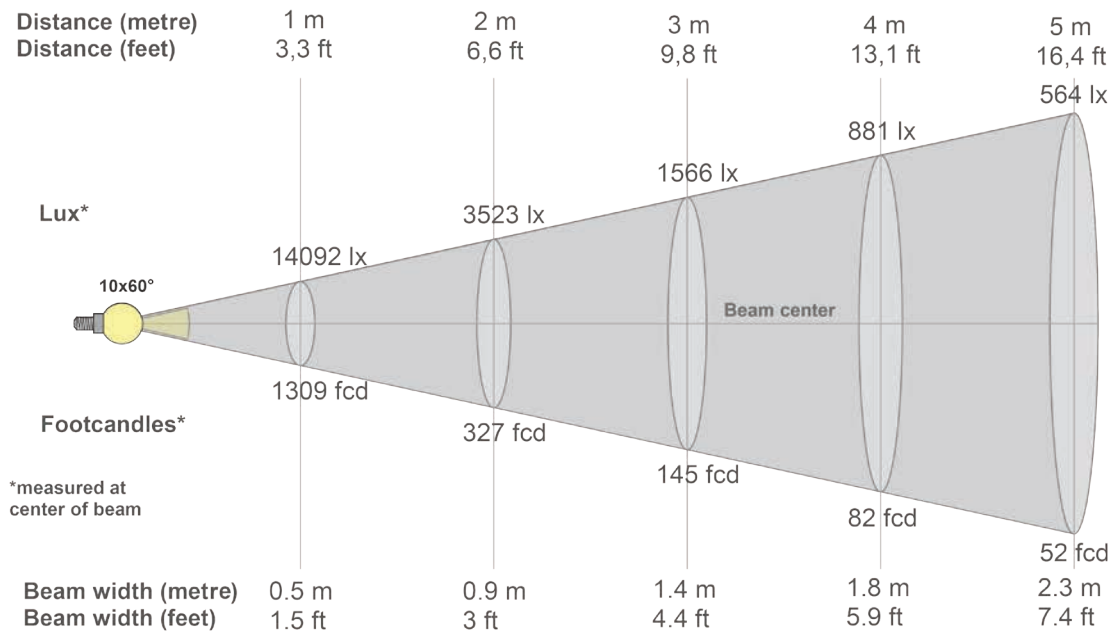
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76.8°	110.8°	140.5°	95.0%	82.4%

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LuxEOS Flood 9 - TW (1700-5700K)

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
14092lx	3523lx	1566lx	881lx	564lx	391lx	288lx	220lx	174lx	141lx	116lx	98lx	83lx	72lx	63lx	55lx	49lx	43lx	39lx	35lx
1309.2fc	327.3fc	145.5fc	81.8fc	52.4fc	36.4fc	26.7fc	20.5fc	16.2fc	13.1fc	10.8fc	9.1fc	7.7fc	6.7fc	5.8fc	5.1fc	4.5fc	4fc	3.6fc	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°
14.1K	13.2K	13.1K	13.0K	12.8K	12.5K	12.3K	12.0K	11.6K	11.1K	10.5K	9.7K	8.8K	7.8K	6.7K	5.7K	4.7K	3.7K	2.9K	2.2K
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°
14.1K	13.9K	10.3K	6.2K	3.4K	2.0K	1.3K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
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°
14.1K	13.2K	13.1K	13.0K	12.8K	12.5K	12.3K	12.0K	11.6K	11.1K	10.5K	9.7K	8.8K	7.8K	6.7K	5.7K	4.7K	3.7K	2.9K	2.2K
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°
14.1K	13.9K	10.3K	6.2K	3.4K	2.0K	1.3K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K	0.1K	0.1K	0.1K	0.1K	0.1K	0.1K
100%	99%	73%	44%	24%	14%	9%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%

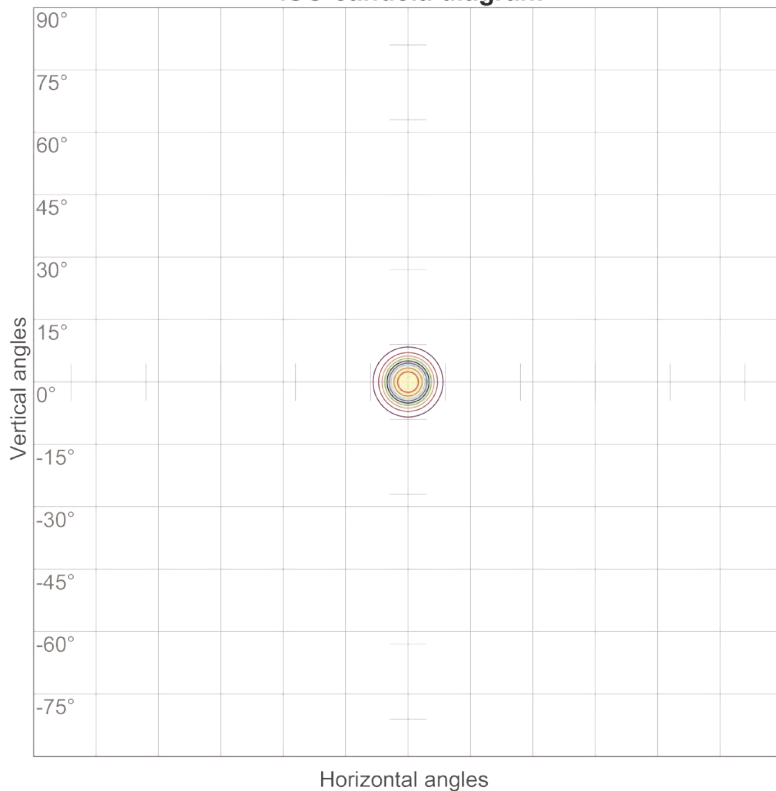
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.5°	45.7°	66.1°	97.5%	94.0%

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ISO candela diagram



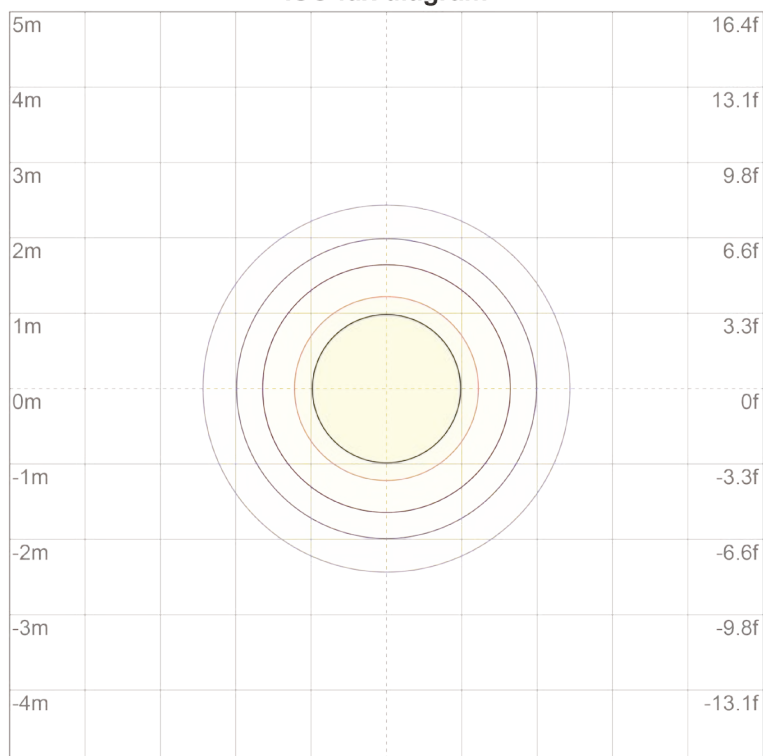
10%	7754 cd
20%	15507 cd
30%	23261 cd
40%	31015 cd
50%	38769 cd
60%	46522 cd
70%	54276 cd
80%	62030 cd
90%	69784 cd

Conditions:

Number of c-planes: 72

Candela at center: 77537 cd

ISO lux diagram



3%	23.3 lx
5%	38.8 lx
10%	77.5 lx
30%	233 lx
50%	388 lx

Conditions:

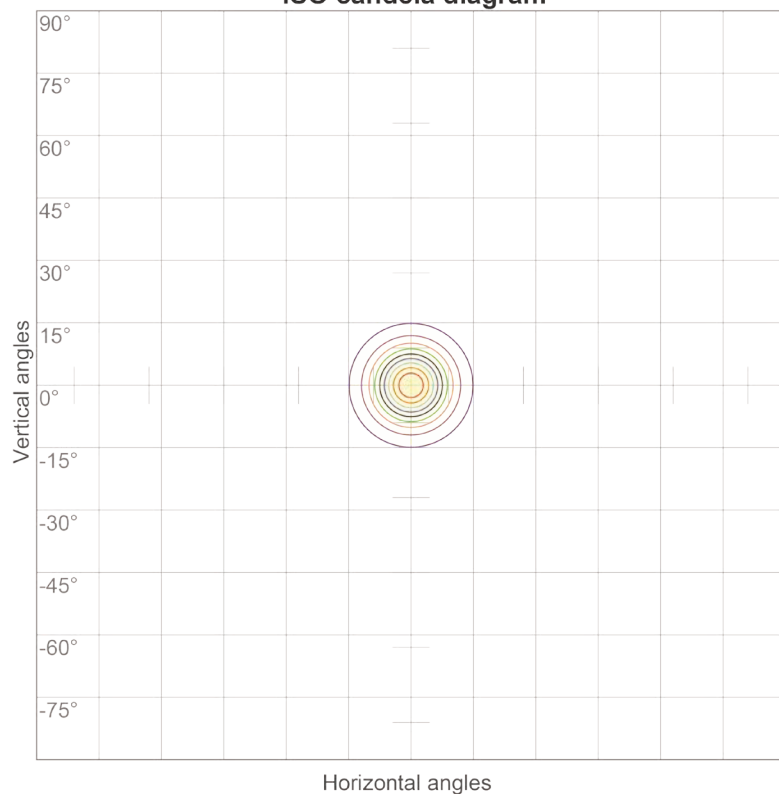
Number of c-planes: 72

Lux at center: 775 lx

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



ISO candela diagram



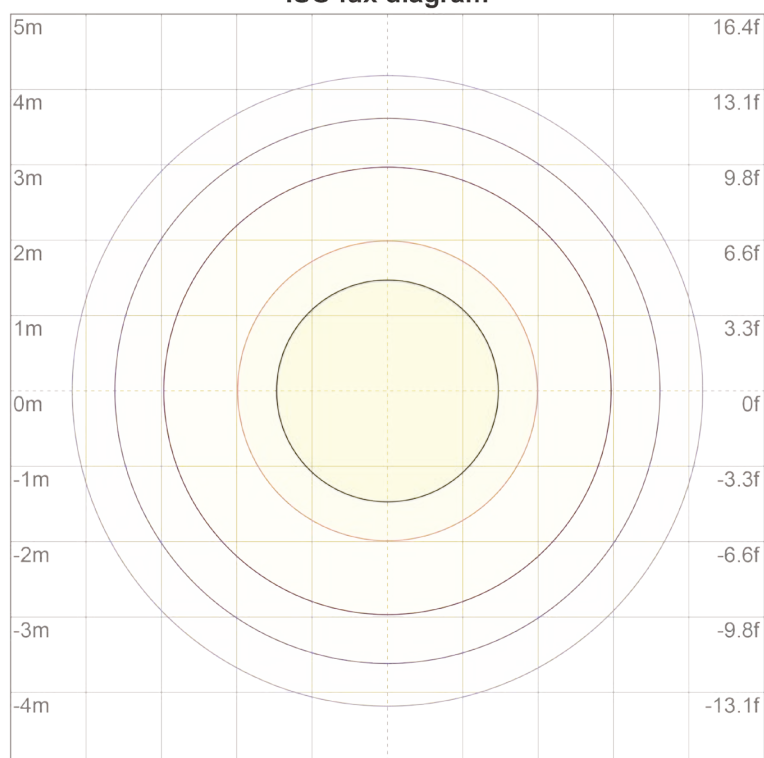
10%	2896 cd
20%	5791 cd
30%	8687 cd
40%	11582 cd
50%	14478 cd
60%	17374 cd
70%	20269 cd
80%	23165 cd
90%	26060 cd

Conditions:

Number of c-planes: 72

Candela at center: 28956 cd

ISO lux diagram



3%	8.69 lx
5%	14.5 lx
10%	29.0 lx
30%	86.9 lx
50%	145 lx

Conditions:

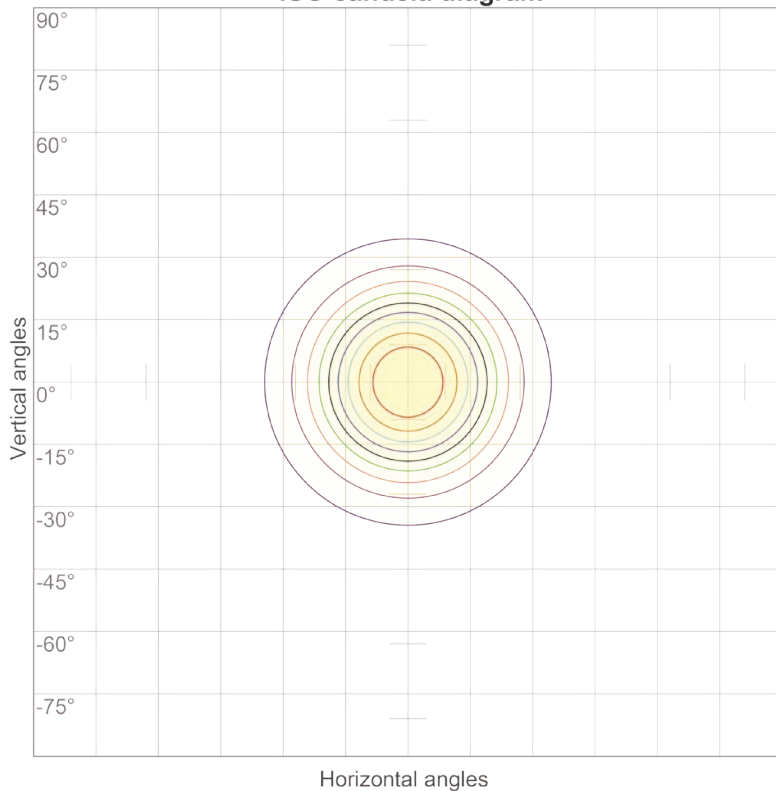
Number of c-planes: 72

Lux at center: 290 lx

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



ISO candela diagram



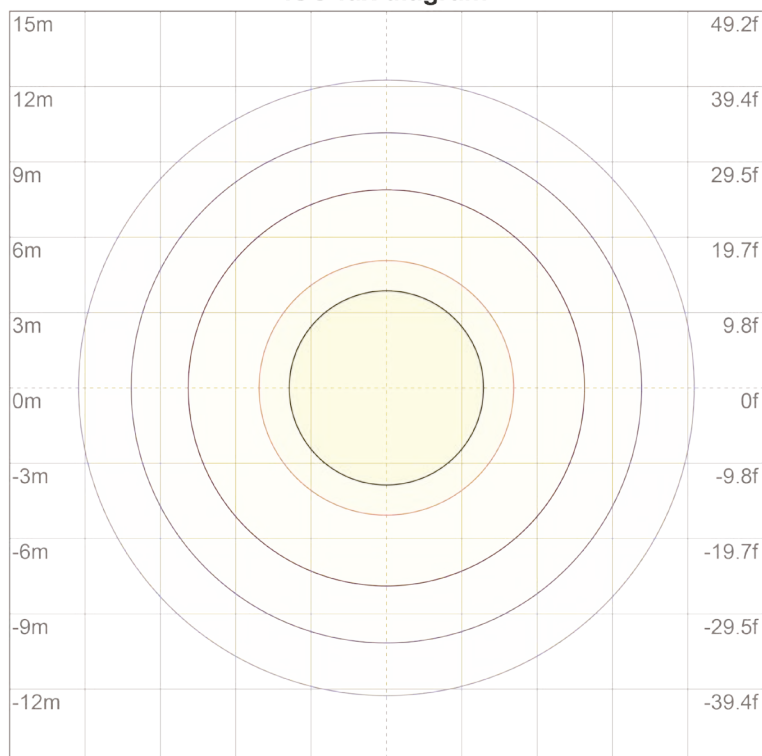
10%	569 cd
20%	1138 cd
30%	1707 cd
40%	2276 cd
50%	2845 cd
60%	3414 cd
70%	3983 cd
80%	4552 cd
90%	5122 cd

Conditions:

Number of c-planes: 72

Candela at center: 5691 cd

ISO lux diagram



3%	1.71 lx
5%	2.85 lx
10%	5.69 lx
30%	17.1 lx
50%	28.5 lx

Conditions:

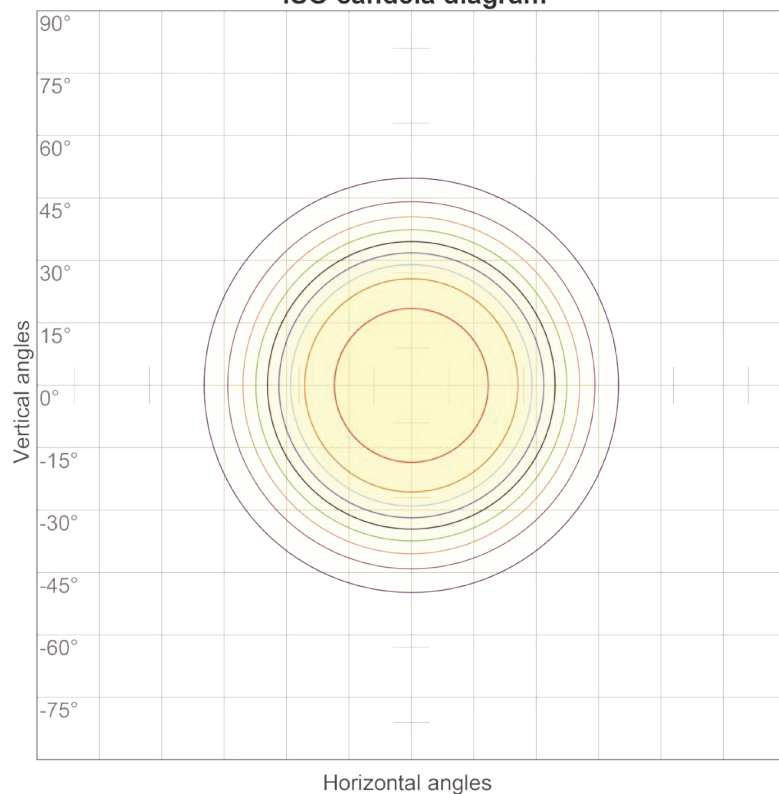
Number of c-planes: 72

Lux at center: 56.9 lx

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



ISO candela diagram



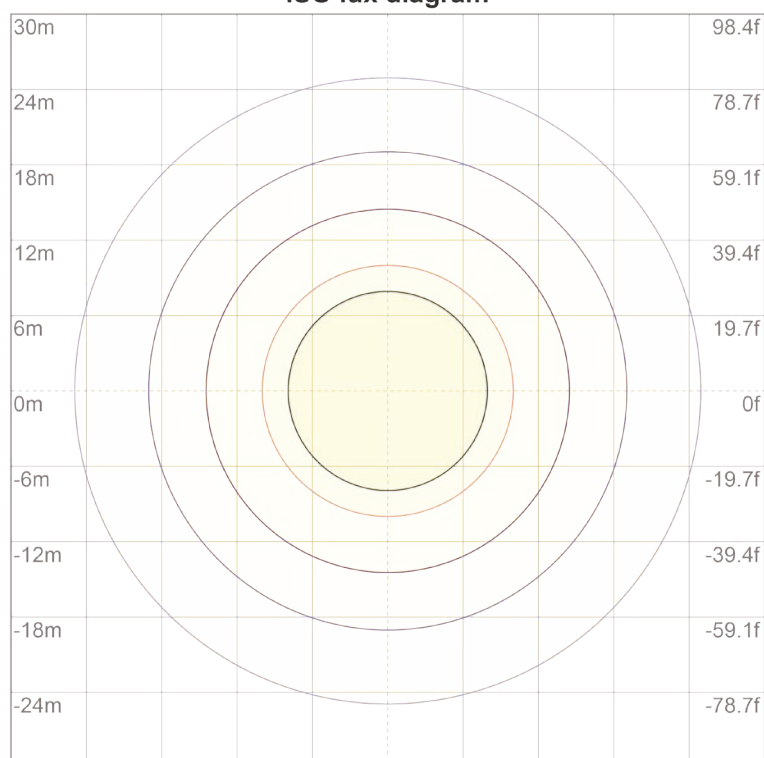
10%	231 cd
20%	462 cd
30%	693 cd
40%	923 cd
50%	1154 cd
60%	1385 cd
70%	1616 cd
80%	1847 cd
90%	2078 cd

Conditions:

Number of c-planes: 72

Candela at center: 2308 cd

ISO lux diagram



3%	0.693 lx
5%	1.15 lx
10%	2.31 lx
30%	6.93 lx
50%	11.5 lx

Conditions:

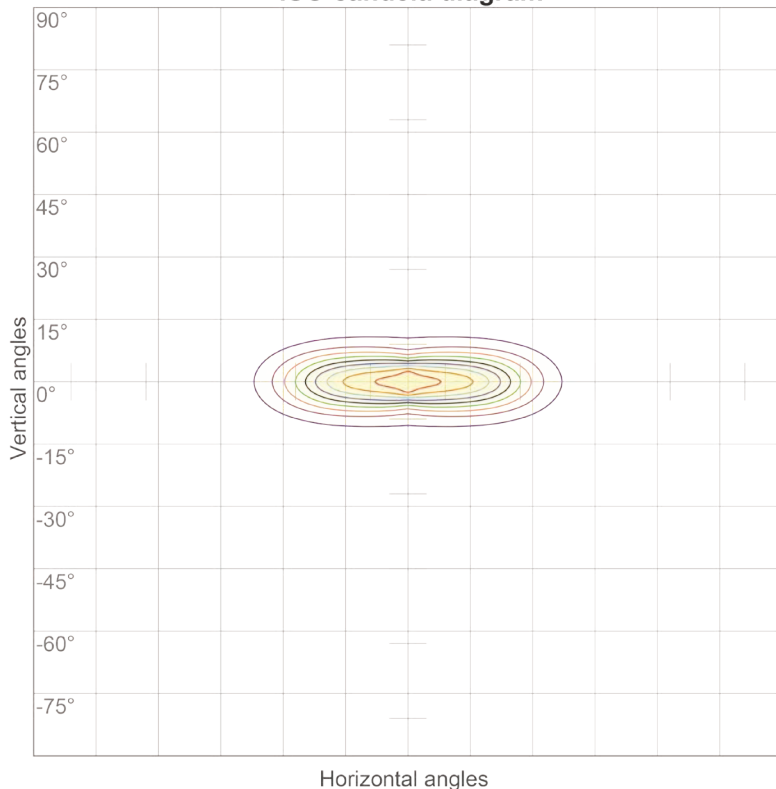
Number of c-planes: 72

Lux at center: 23.1 lx

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



ISO candela diagram



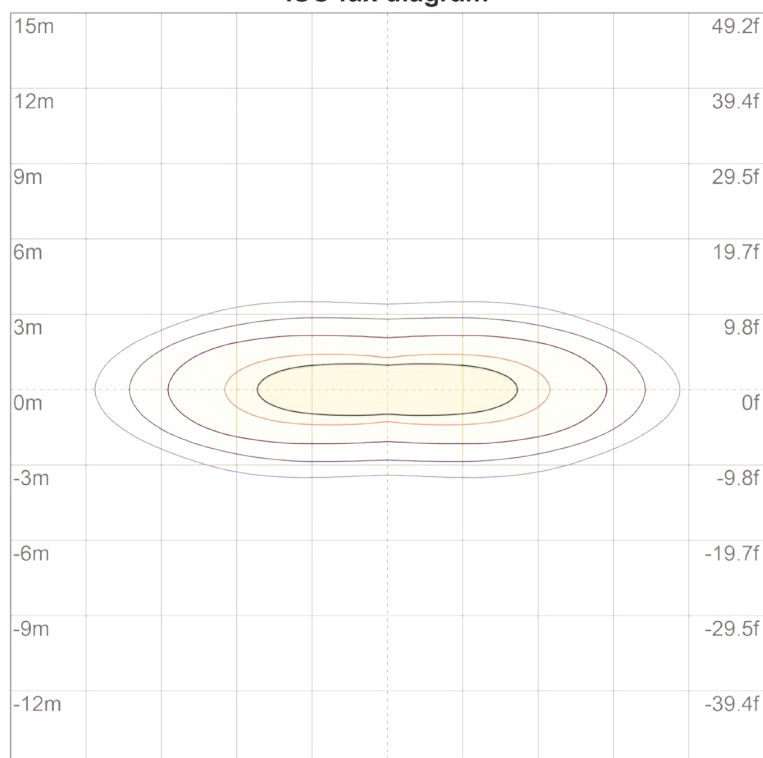
10%	1409 cd
20%	2818 cd
30%	4228 cd
40%	5637 cd
50%	7046 cd
60%	8455 cd
70%	9864 cd
80%	11274 cd
90%	12683 cd

Conditions:

Number of c-planes: 72

Candela at center: 14092 cd

ISO lux diagram



3%	4.23 lx
5%	7.05 lx
10%	14.1 lx
30%	42.3 lx
50%	70.5 lx

Conditions:

Number of c-planes: 72

Lux at center: 141 lx

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

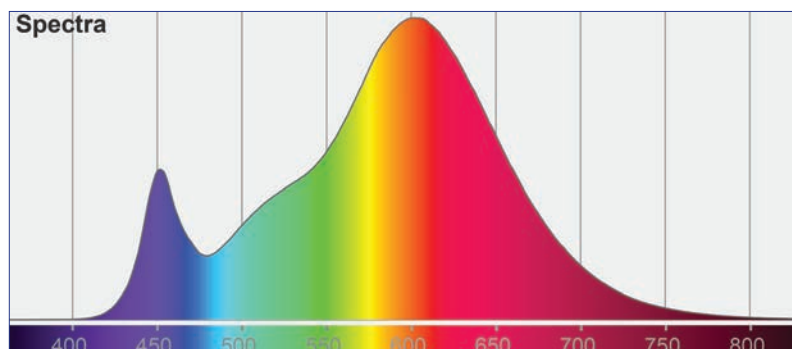
PULSAR

LuxEOS Flood 9 - TW (1700-5700K)

Colormetrics **1700K, 2700K, 5700K** (All channels on)



PHOTOMETRIC DATA



Total Lumen Output (Native) : 3773 lm

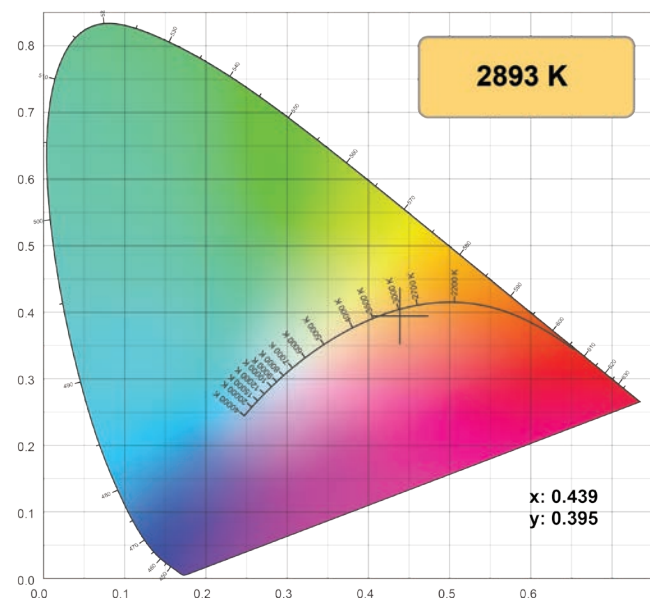
Efficacy : 63 lm/W

Voltage : 240V

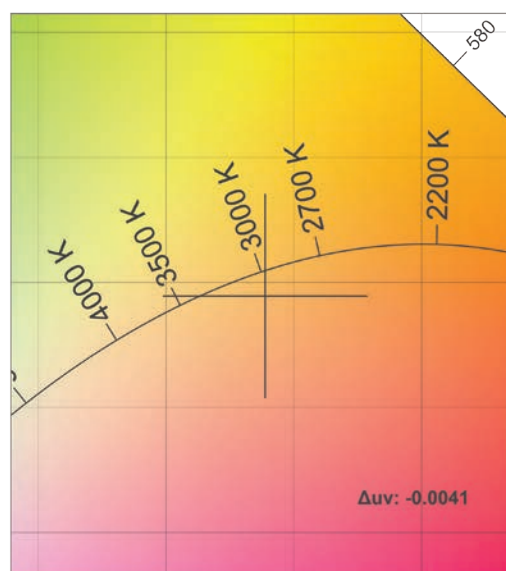
Supply Power : 60W

Supply Power Factor : 0.97

CIE 1931



CIE 1931 Zoom



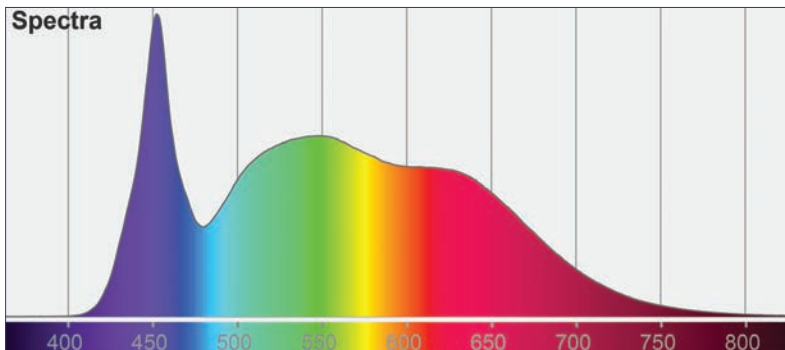
PULSAR

LuxEOS Flood 9 - TW (1700-5700K)

Colormetrics **5700K**

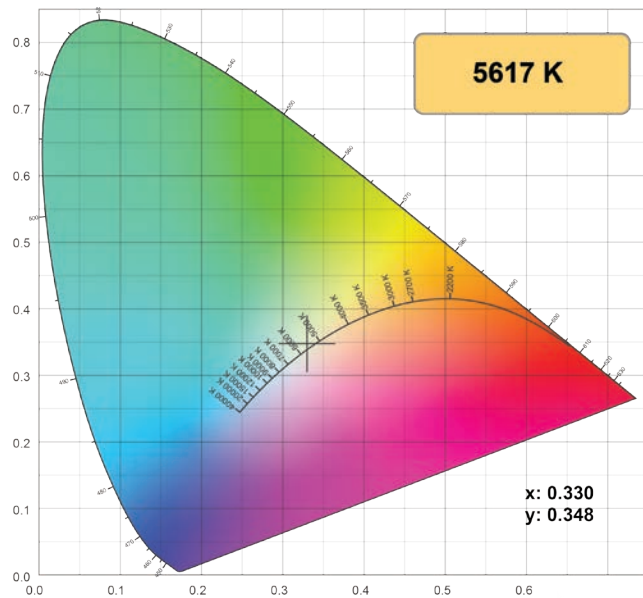


PHOTOMETRIC DATA

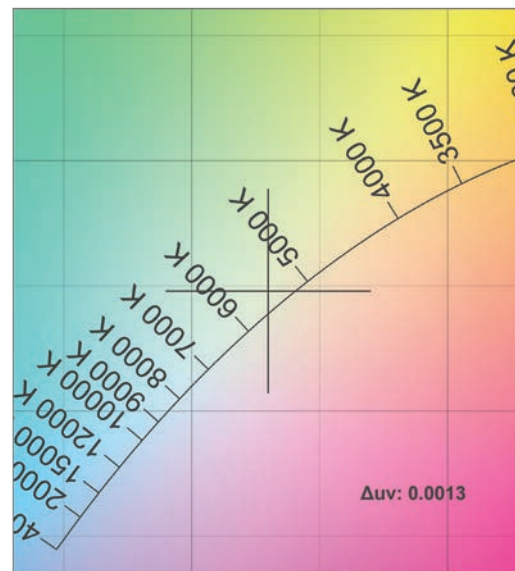


White 5700K Lumen Output : 1727 lm
CRI: 90

CIE 1931



CIE 1931 Zoom

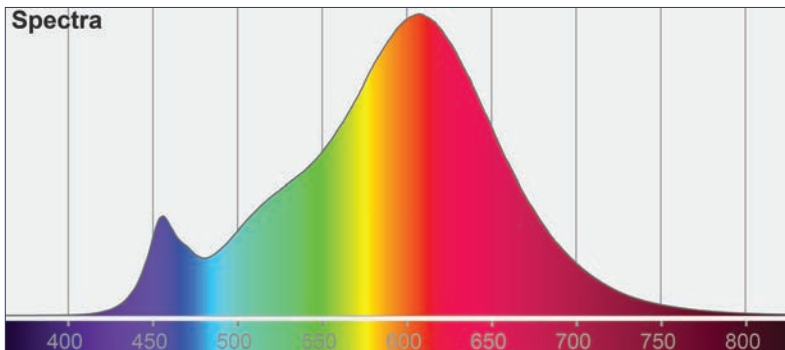


PULSAR

LuxEOS Flood 9 - TW (1700-5700K)
Colormetrics **2700K**

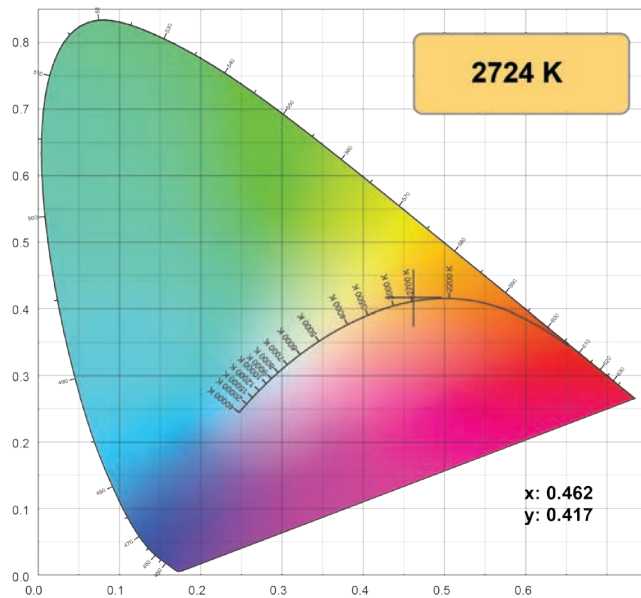


PHOTOMETRIC DATA

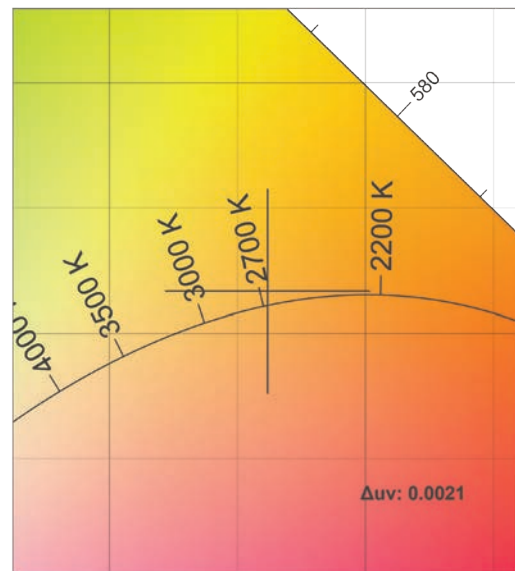


White 2700K Lumen Output : 2295 lm
CRI: 80

CIE 1931



CIE 1931 Zoom

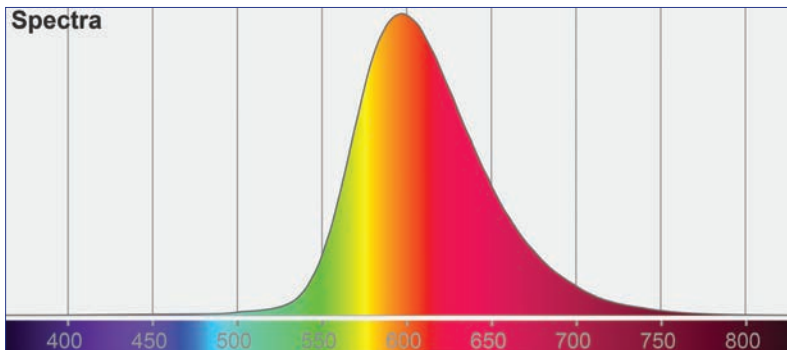


PULSAR

LuxEOS Flood 9 - TW (1700-5700K)
Colormetrics **1700K**

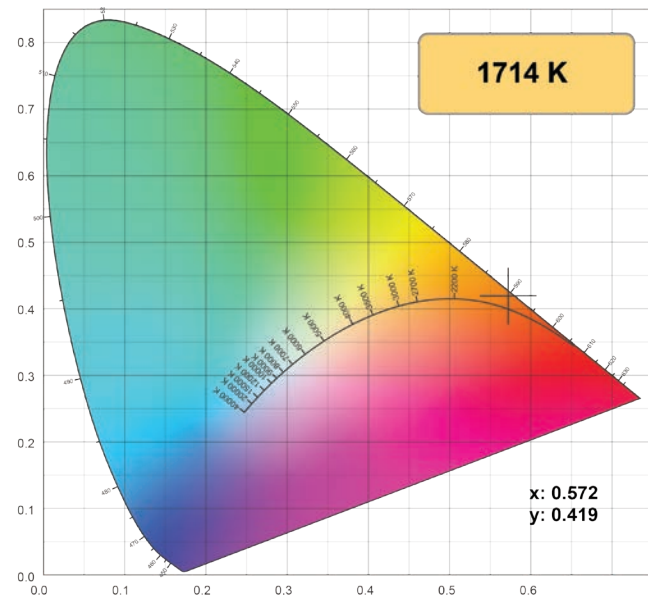


PHOTOMETRIC DATA

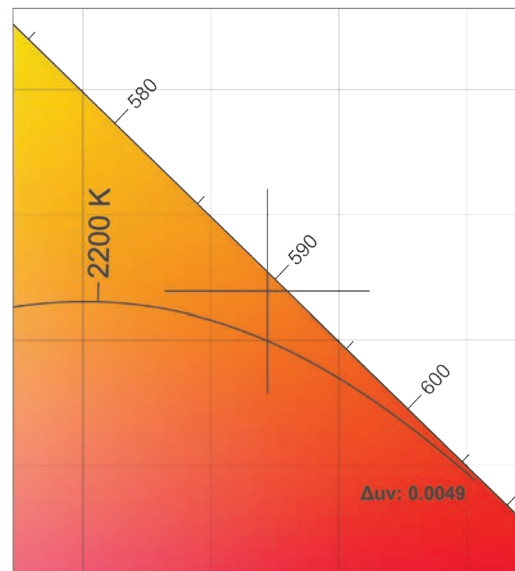


Amber 1700K Lumen Output : 1089 lm

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.

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