

LuxEOS Flood 18 VIVID COLOUR

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 18 - RGBA (1700K)
10° 20° 40° 80° 10x60° 60x10°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

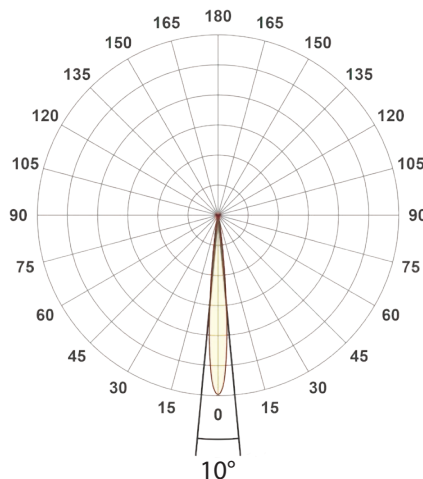
Date
Nov 2020

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

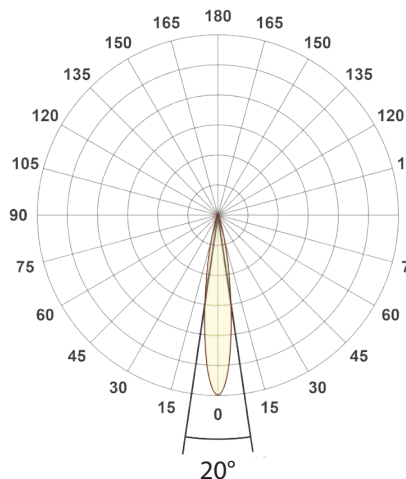
Weight
12 kgs (26.46lbs)

Polar Distribution

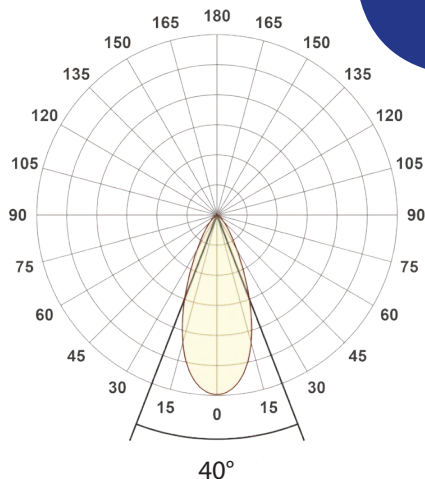
10° Conical Beam (Native)



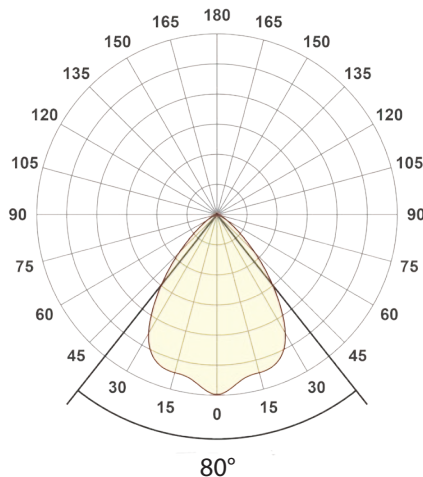
20° Conical Beam (With HBS)



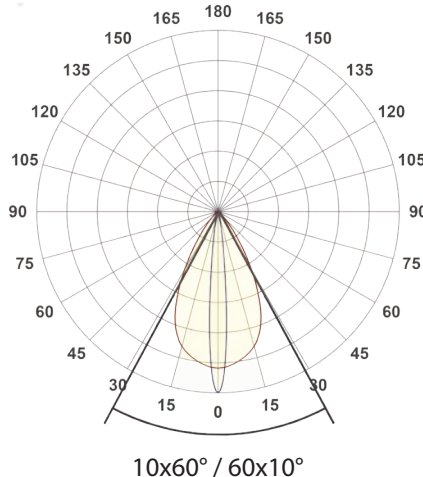
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)

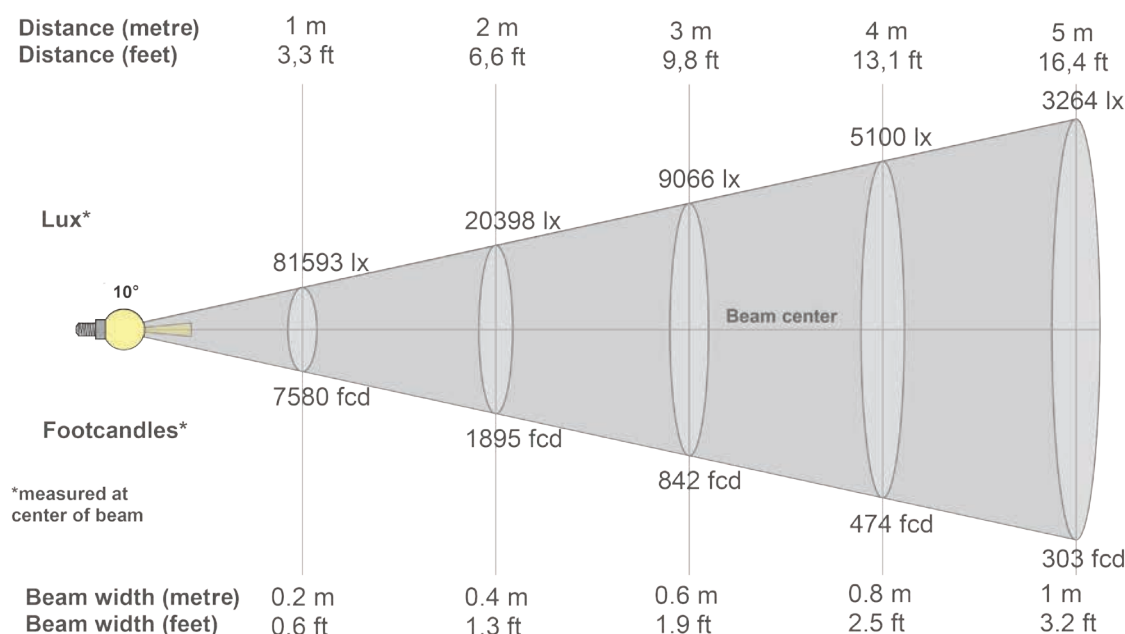


10x60° / 60x10° Elliptical Beam (With HBS)



LuxEOS Flood 18 - 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
81593lx	20398lx	9066lx	5100lx	3264lx	2266lx	1665lx	1275lx	1007lx	816lx	674lx	567lx	483lx	416lx	363lx	319lx	282lx	252lx	226lx	204lx
7580.3fc	1895.1fc	842.3fc	473.8fc	303.2fc	210.6fc	154.7fc	118.4fc	93.6fc	75.8fc	62.6fc	52.6fc	44.9fc	38.7fc	33.7fc	29.6fc	26.2fc	23.4fc	21fc	19fc

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°
81.6K	80.4K	76.7K	70.3K	60.3K	47.7K	34.8K	23.5K	14.9K	9.3K	5.9K	4.0K	3.0K	2.6K	2.2K	1.9K	1.6K	1.3K	1.1K	0.9K
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°
81.6K	80.4K	76.7K	70.3K	60.3K	47.7K	34.8K	23.5K	14.9K	9.3K	5.9K	4.0K	3.0K	2.6K	2.2K	1.9K	1.6K	1.3K	1.1K	0.9K
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°
81.6K	80.4K	76.7K	70.3K	60.3K	47.7K	34.8K	23.5K	14.9K	9.3K	5.9K	4.0K	3.0K	2.6K	2.2K	1.9K	1.6K	1.3K	1.1K	0.9K
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°
81.6K	80.4K	76.7K	70.3K	60.3K	47.7K	34.8K	23.5K	14.9K	9.3K	5.9K	4.0K	3.0K	2.6K	2.2K	1.9K	1.6K	1.3K	1.1K	0.9K
100%	99%	94%	86%	74%	58%	43%	29%	18%	11%	7%	5%	4%	3%	3%	2%	2%	2%	1%	1%

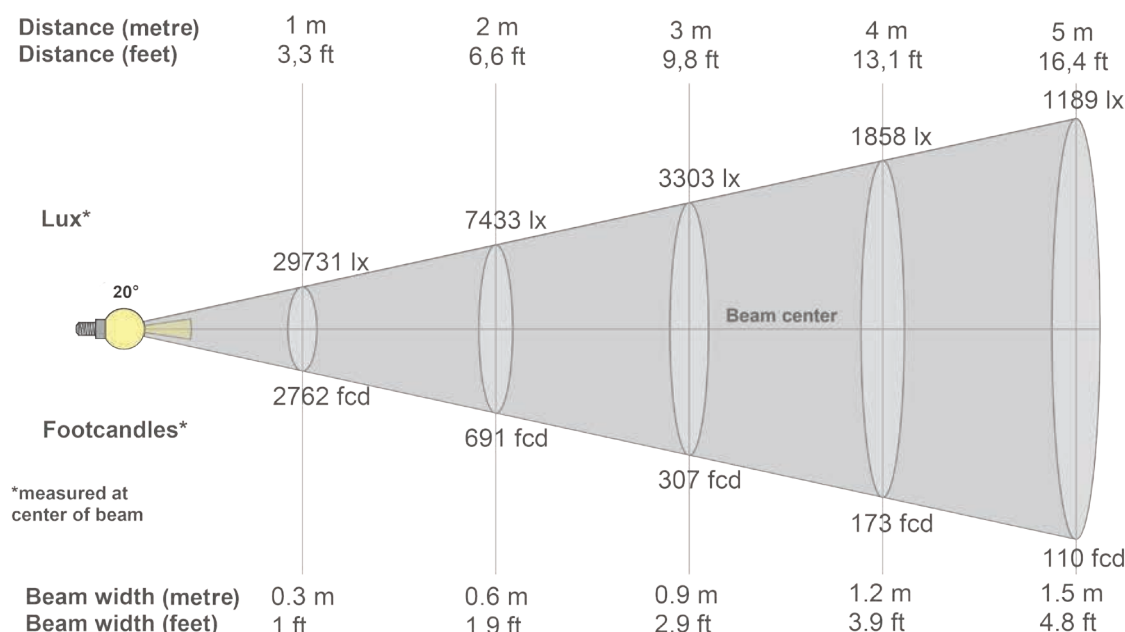
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11°	18.5°	29.3°	97.3%	95.9%

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LuxEOS Flood 18 - 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
29731lx	7433lx	3303lx	1858lx	1189lx	826lx	607lx	465lx	367lx	297lx	246lx	206lx	176lx	152lx	132lx	116lx	103lx	92lx	82lx	74lx
2762.1fc	690.5fc	306.9fc	172.6fc	110.5fc	76.7fc	56.4fc	43.2fc	34.1fc	27.6fc	22.8fc	19.2fc	16.3fc	14.1fc	12.3fc	10.8fc	9.6fc	8.5fc	7.7fc	6.9fc

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°
29.7K	29.5K	28.6K	27.2K	25.3K	23.1K	20.7K	18.2K	15.8K	13.4K	11.3K	9.4K	7.7K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K	1.8K
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°
29.7K	29.5K	28.6K	27.2K	25.3K	23.1K	20.7K	18.2K	15.8K	13.4K	11.3K	9.4K	7.7K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K	1.8K
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°
29.7K	29.5K	28.6K	27.2K	25.3K	23.1K	20.7K	18.2K	15.8K	13.4K	11.3K	9.4K	7.7K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K	1.8K
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°
29.7K	29.5K	28.6K	27.2K	25.3K	23.1K	20.7K	18.2K	15.8K	13.4K	11.3K	9.4K	7.7K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K	1.8K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

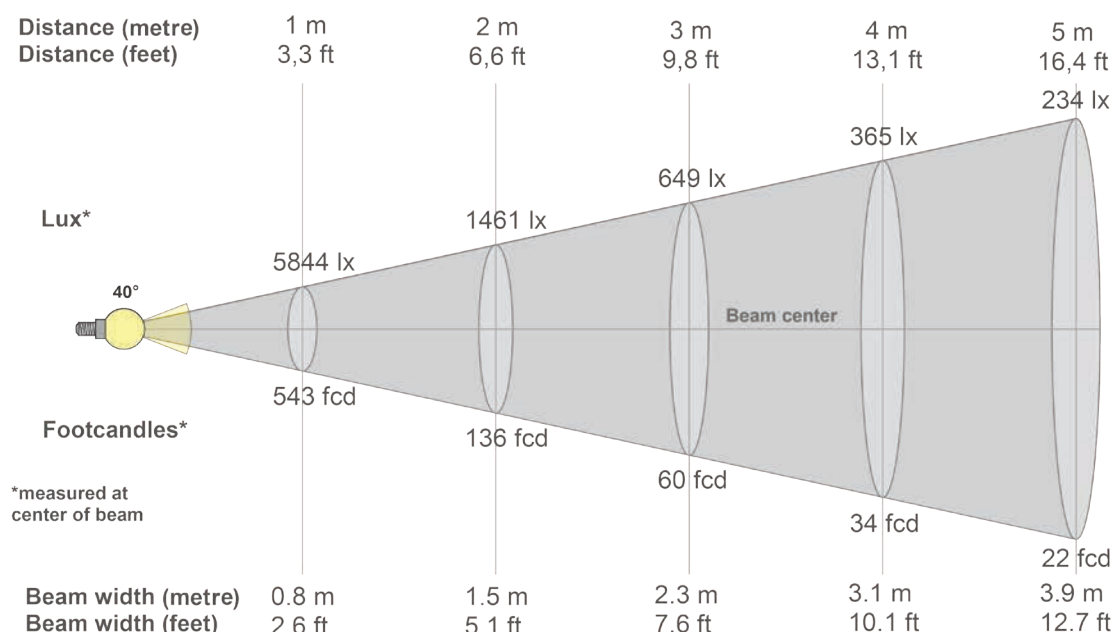
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

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LuxEOS Flood 18 - 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
5844lx	1461lx	649lx	365lx	234lx	162lx	119lx	91lx	72lx	58lx	48lx	41lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
542.9fcd	135.7fcd	60.3fcd	33.9fcd	21.7fcd	15.1fcd	11.1fcd	8.5fcd	6.7fcd	5.4fcd	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°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5844	5821	5741	5608	5418	5170	4864	4501	4093	3648	3186	2728	2296	1907	1573	1295	1067	881	728	602
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°
5844	5821	5741	5608	5418	5170	4864	4501	4093	3648	3186	2728	2296	1907	1573	1295	1067	881	728	602
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°
5844	5821	5741	5608	5418	5170	4864	4501	4093	3648	3186	2728	2296	1907	1573	1295	1067	881	728	602
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

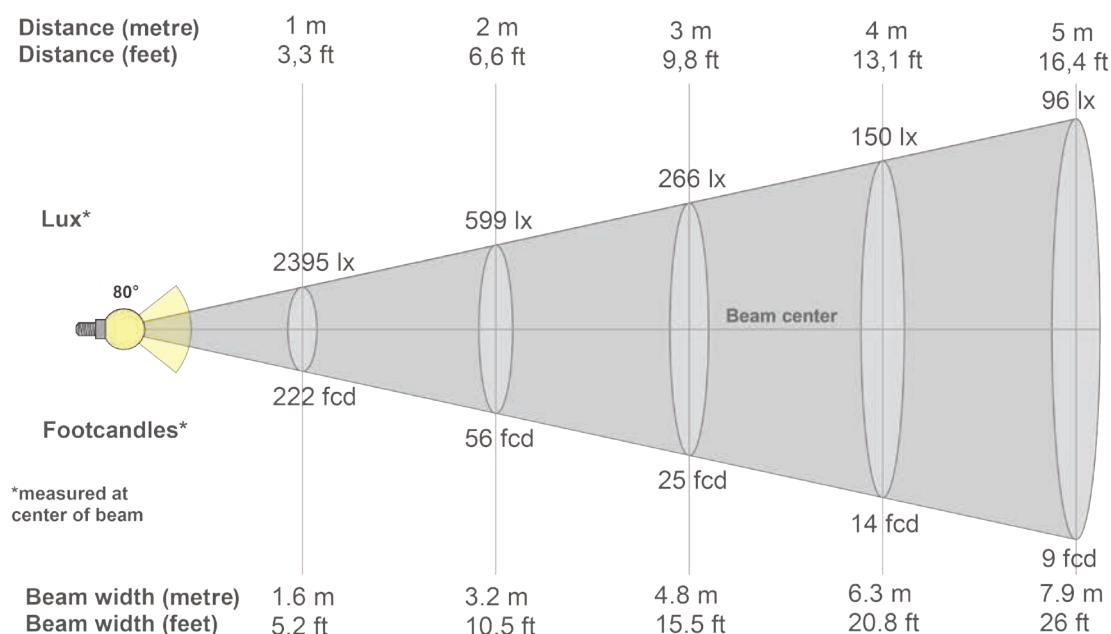
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5844	5821	5741	5608	5418	5170	4864	4501	4093	3648	3186	2728	2296	1907	1573	1295	1067	881	728	602
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 18 - 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
2395lx	599lx	266lx	150lx	96lx	67lx	49lx	37lx	30lx	24lx	20lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
222.5fcd	55.6fcd	24.7fcd	13.9fcd	8.9fcd	6.2fcd	4.5fcd	3.5fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2395	2316	2206	2183	2160	2057	1826	1466	1074	717	432	250	149	95	61	37	18	5	1	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°
2395	2316	2206	2183	2160	2057	1826	1466	1074	717	432	250	149	95	61	37	18	5	1	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°
2395	2316	2206	2183	2160	2057	1826	1466	1074	717	432	250	149	95	61	37	18	5	1	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°
2395	2316	2206	2183	2160	2057	1826	1466	1074	717	432	250	149	95	61	37	18	5	1	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%

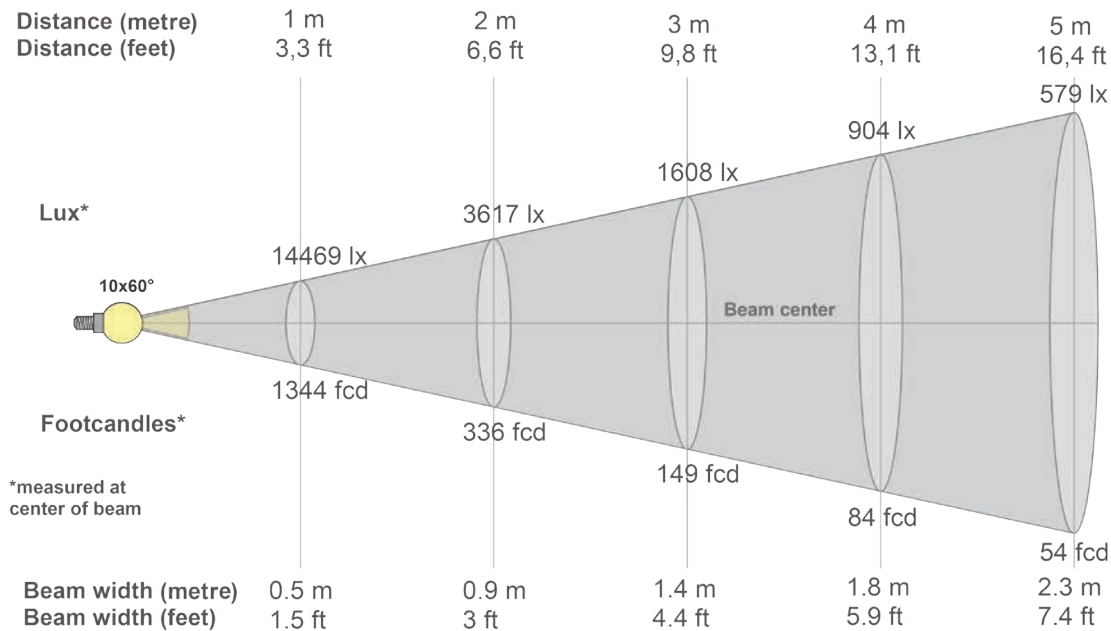
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LuxEOS Flood 18 - RGBA (1700K)

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
14469lx	3617lx	1608lx	904lx	579lx	402lx	295lx	226lx	179lx	145lx	120lx	100lx	86lx	74lx	64lx	57lx	50lx	45lx	40lx	36lx
1344.3fc	336.1fc	149.4fc	84fc	53.8fc	37.3fc	27.4fc	21fc	16.6fc	13.4fc	11.1fc	9.3fc	8fc	6.9fc	6fc	5.3fc	4.7fc	4.1fc	3.7fc	3.4fc

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°
14.5K	13.6K	13.5K	13.3K	13.1K	12.9K	12.6K	12.3K	11.9K	11.4K	10.8K	10.0K	9.0K	8.0K	6.9K	5.8K	4.8K	3.8K	3.0K	2.3K
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°
14.5K	14.3K	10.6K	6.4K	3.4K	2.0K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K	0.2K	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°
14.5K	13.6K	13.5K	13.3K	13.1K	12.9K	12.6K	12.3K	11.9K	11.4K	10.8K	10.0K	9.0K	8.0K	6.9K	5.8K	4.8K	3.8K	3.0K	2.3K
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°
14.5K	14.3K	10.6K	6.4K	3.4K	2.0K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K	0.2K	0.2K	0.2K	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%

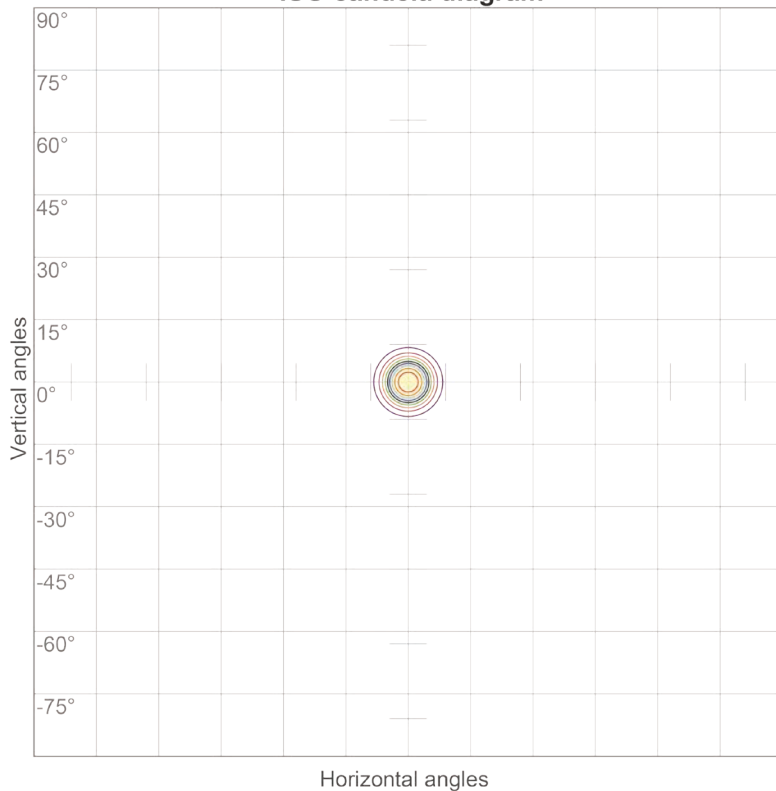
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LuxEOS Flood 18 - RGBA (1700K) ISO Candela & ISO Lux diagrams with 10° Optics



ISO candela diagram



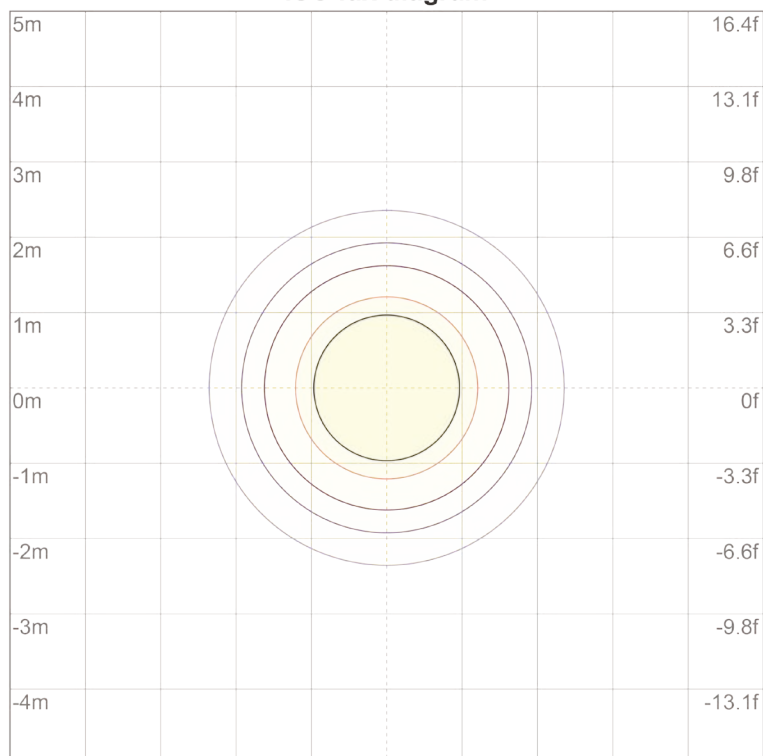
10%	8159 cd
20%	16319 cd
30%	24478 cd
40%	32637 cd
50%	40797 cd
60%	48956 cd
70%	57115 cd
80%	65275 cd
90%	73434 cd

Conditions:

Number of c-planes: 72

Candela at center: 81593 cd

ISO lux diagram



3%	24.5 lx
5%	40.8 lx
10%	81.6 lx
30%	245 lx
50%	408 lx

Conditions:

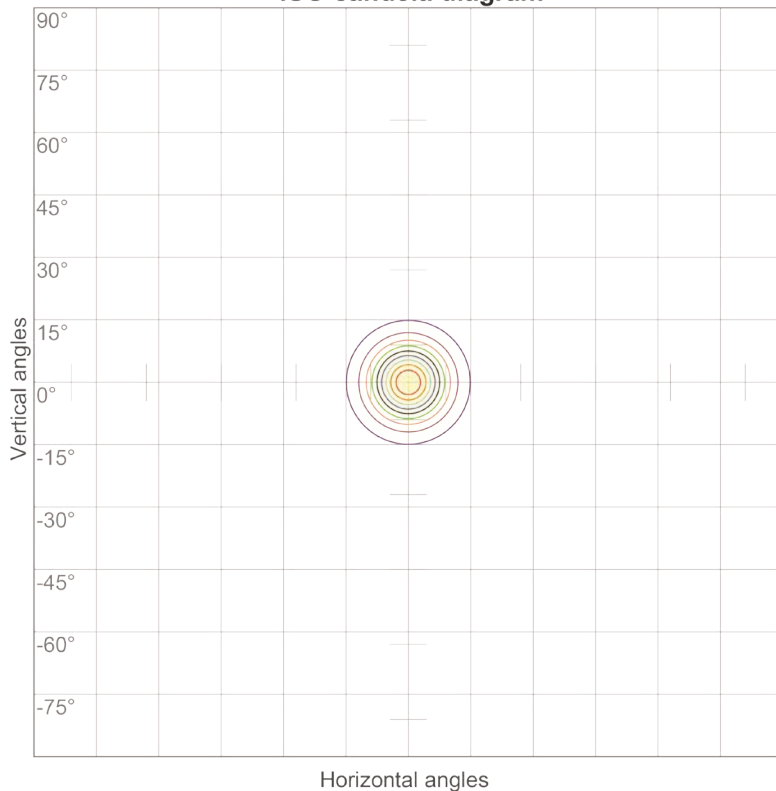
Number of c-planes: 72

Lux at center: 816 lx

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



ISO candela diagram



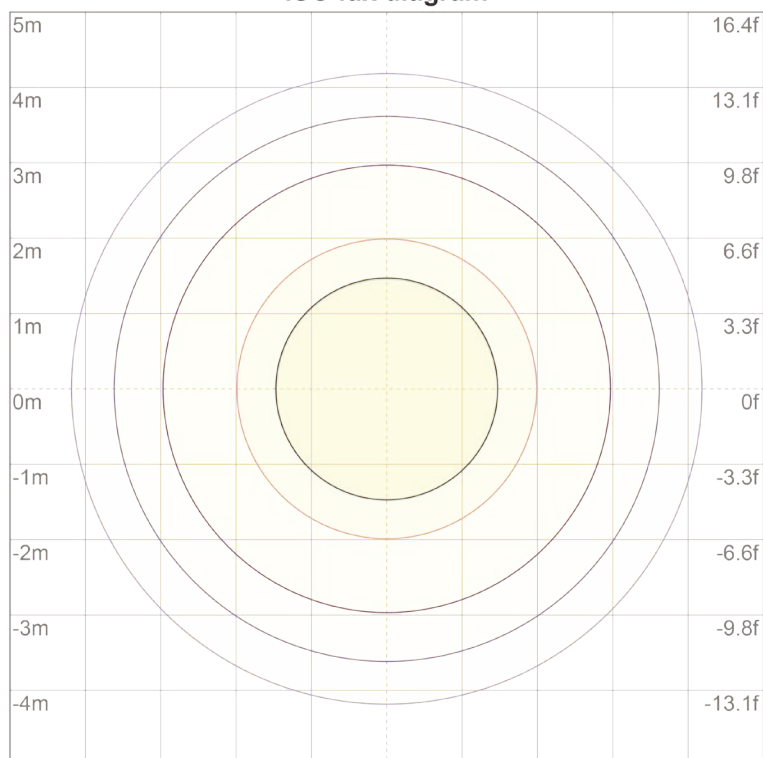
10%	2973 cd
20%	5946 cd
30%	8919 cd
40%	11892 cd
50%	14865 cd
60%	17839 cd
70%	20812 cd
80%	23785 cd
90%	26758 cd

Conditions:

Number of c-planes: 72

Candela at center: 29731 cd

ISO lux diagram



3%	8.92 lx
5%	14.9 lx
10%	29.7 lx
30%	89.2 lx
50%	149 lx

Conditions:

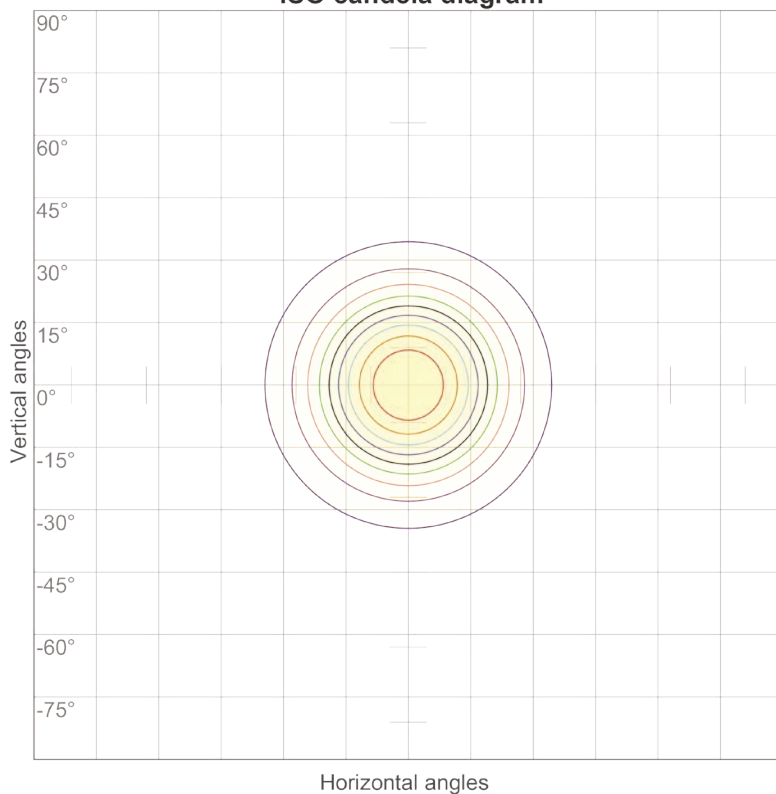
Number of c-planes: 72

Lux at center: 297 lx

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



ISO candela diagram



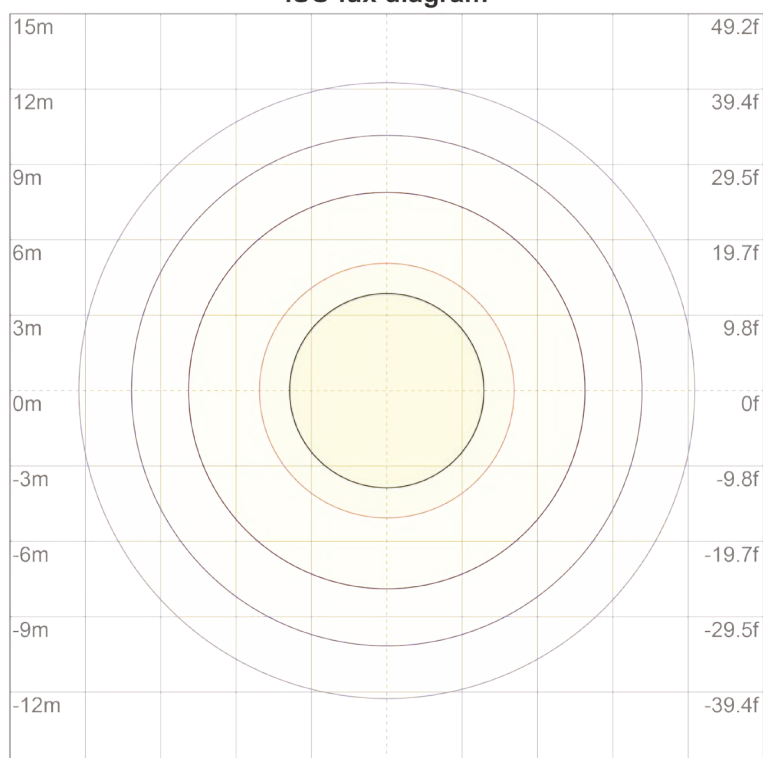
10%	584 cd
20%	1169 cd
30%	1753 cd
40%	2338 cd
50%	2922 cd
60%	3506 cd
70%	4091 cd
80%	4675 cd
90%	5259 cd

Conditions:

Number of c-planes: 72

Candela at center: 5844 cd

ISO lux diagram



3%	1.75 lx
5%	2.92 lx
10%	5.84 lx
30%	17.5 lx
50%	29.2 lx

Conditions:

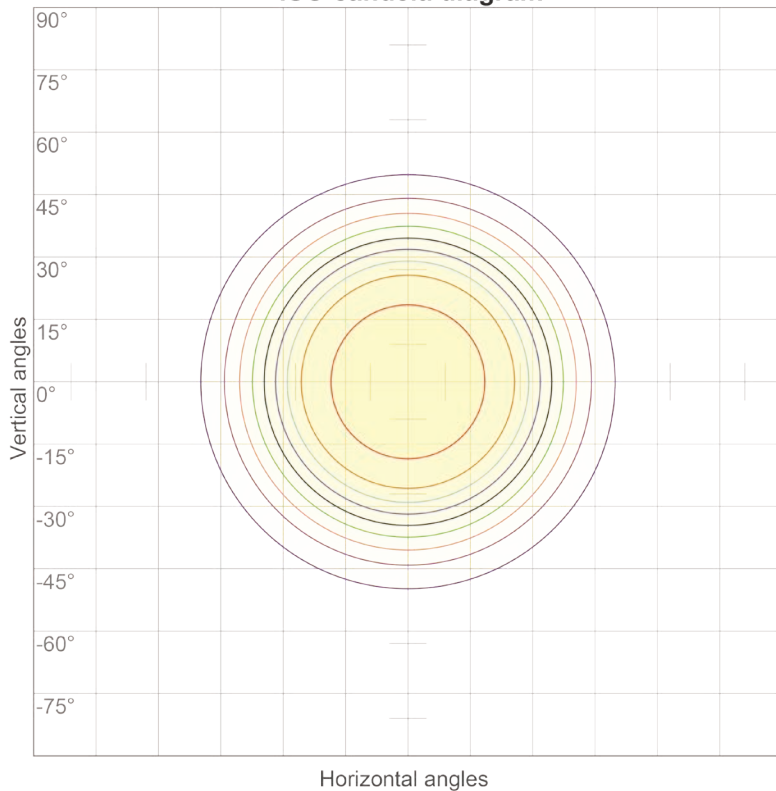
Number of c-planes: 72

Lux at center: 58.4 lx

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



ISO candela diagram



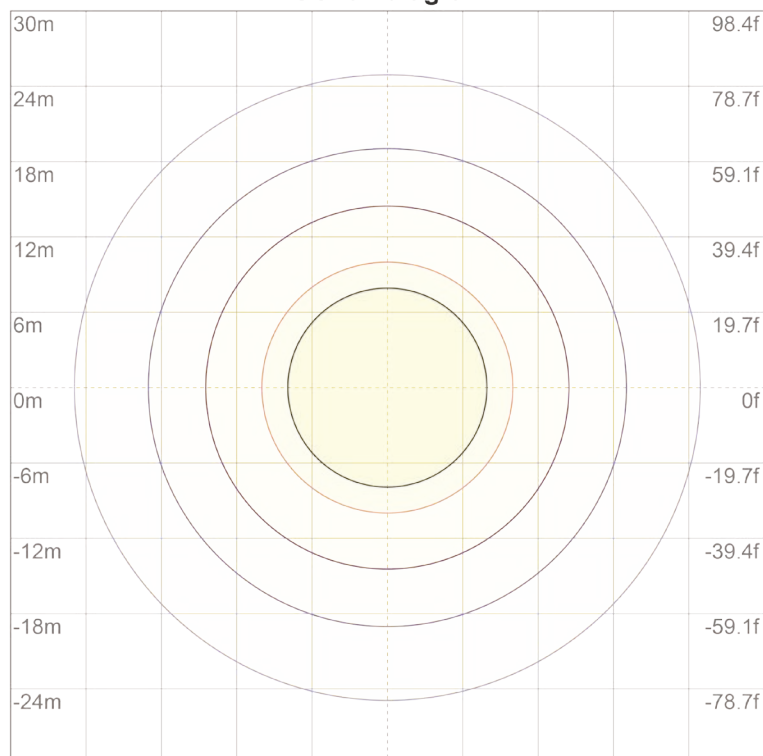
10%	239 cd
20%	479 cd
30%	718 cd
40%	958 cd
50%	1197 cd
60%	1437 cd
70%	1676 cd
80%	1916 cd
90%	2155 cd

Conditions:

Number of c-planes: 72

Candela at center: 2395 cd

ISO lux diagram



3%	0.718 lx
5%	1.20 lx
10%	2.39 lx
30%	7.18 lx
50%	12.0 lx

Conditions:

Number of c-planes: 72

Lux at center: 23.9 lx

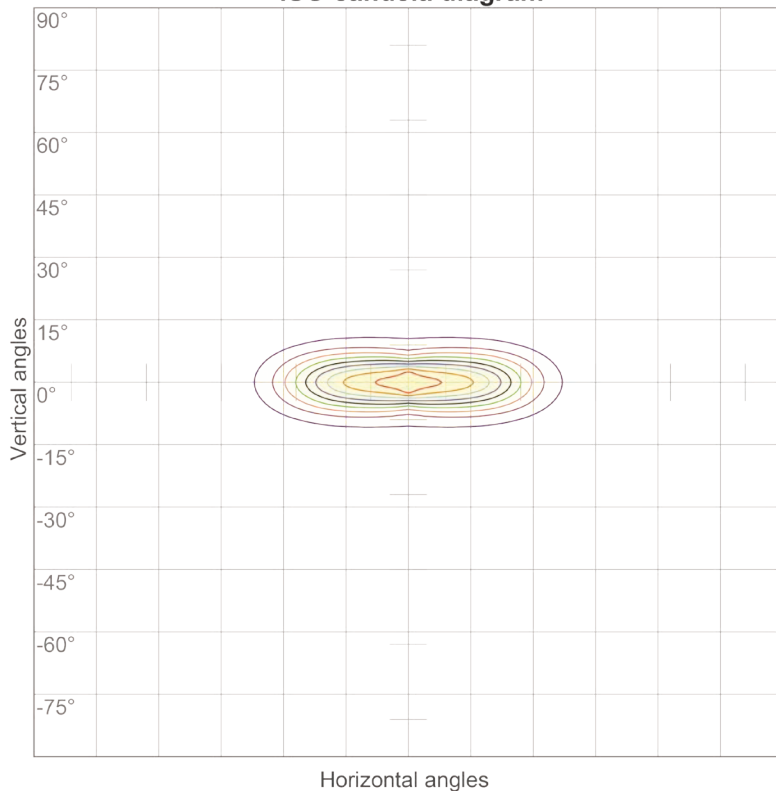
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 18 - RGBA (1700K)

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



ISO candela diagram



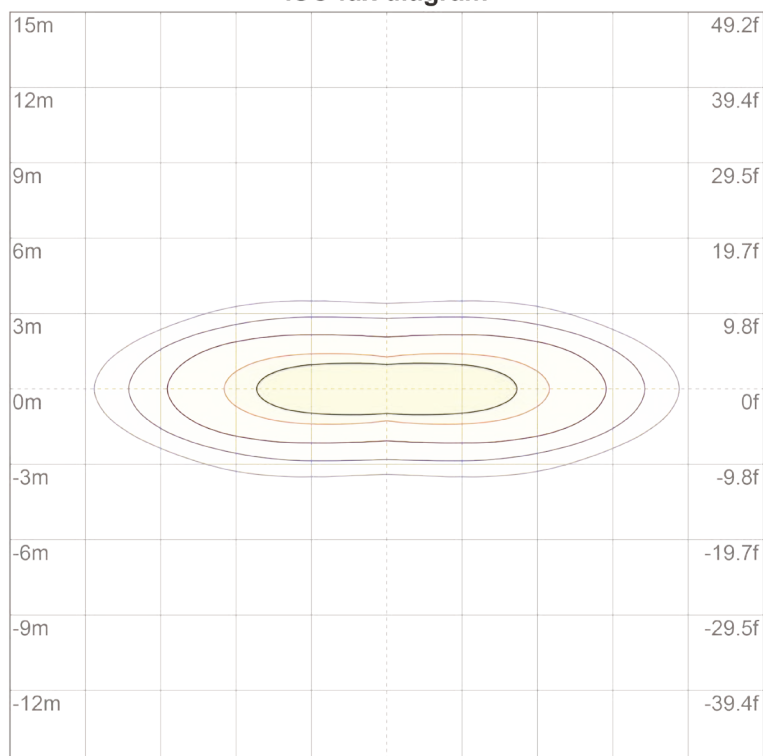
10%	1447 cd
20%	2894 cd
30%	4341 cd
40%	5788 cd
50%	7235 cd
60%	8682 cd
70%	10129 cd
80%	11576 cd
90%	13023 cd

Conditions:

Number of c-planes: 72

Candela at center: 14469 cd

ISO lux diagram



3%	4.34 lx
5%	7.23 lx
10%	14.5 lx
30%	43.4 lx
50%	72.3 lx

Conditions:

Number of c-planes: 72

Lux at center: 145 lx

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

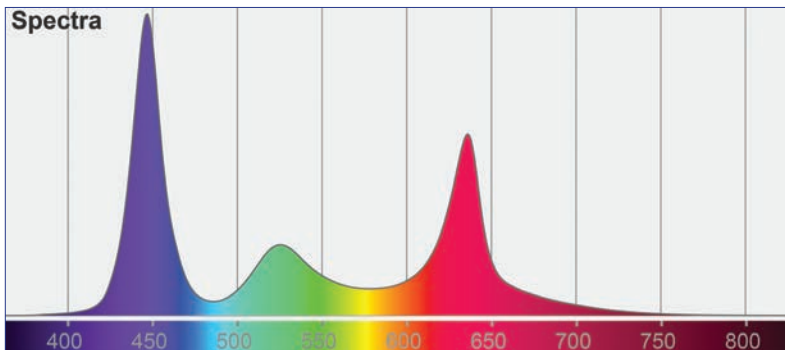
PULSAR

LuxEOS Flood 18 - RGBA (1700K)

Colormetrics **RGBA**



PHOTOMETRIC DATA



Total Lumen Output (Native) : 3874 lm

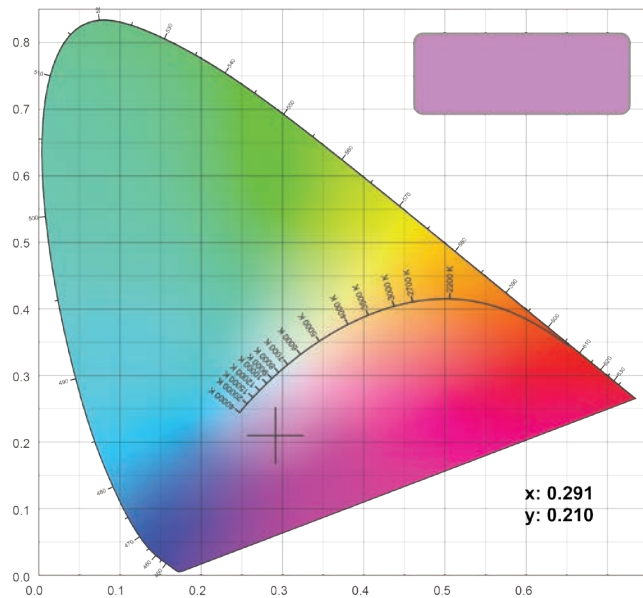
Efficacy : 32.3 lm/W

Voltage : 240V

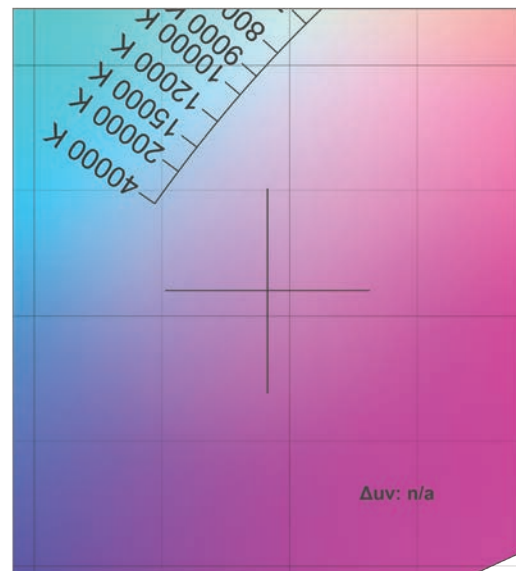
Supply Power : 120W

Supply Power Factor : 0.97

CIE 1931



CIE 1931 Zoom



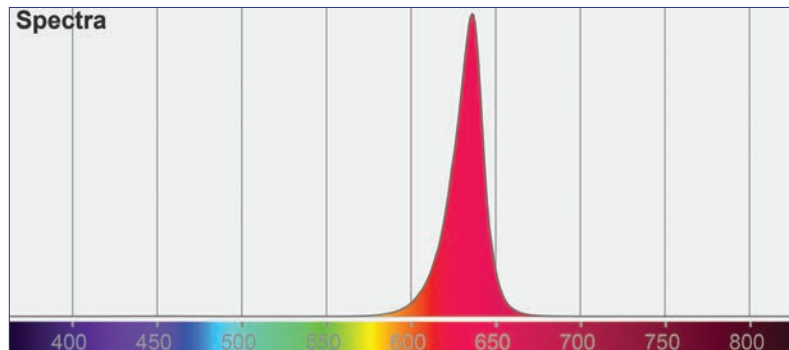
PULSAR

LuxEOS Flood 18 - RGBA (1700K)

Colormetrics **RED**

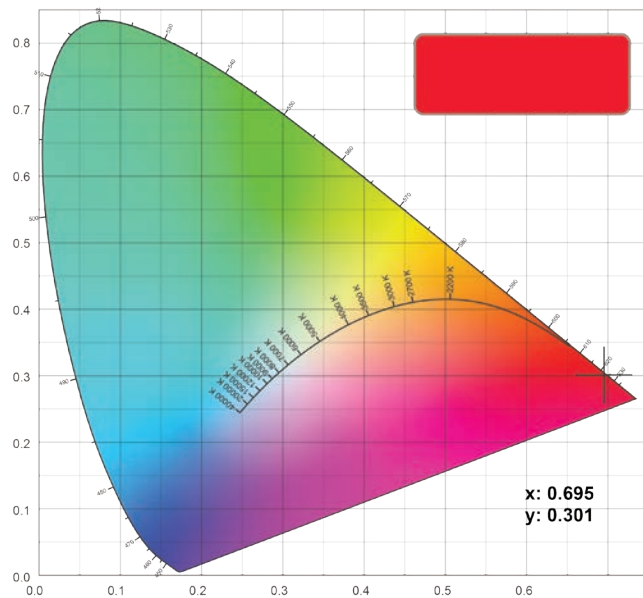


PHOTOMETRIC DATA

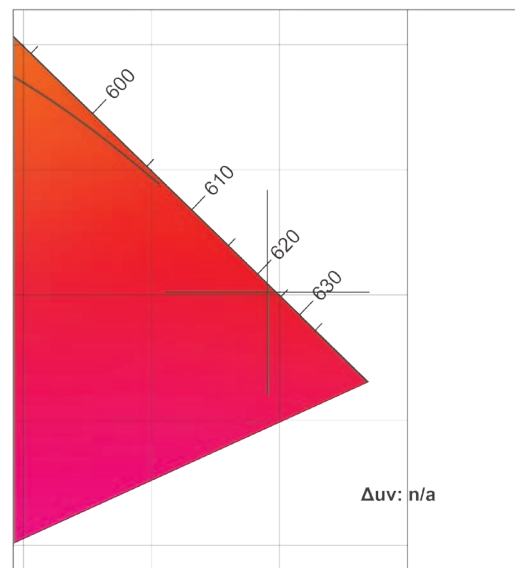


Red Lumen Output : 1054 lm

CIE 1931

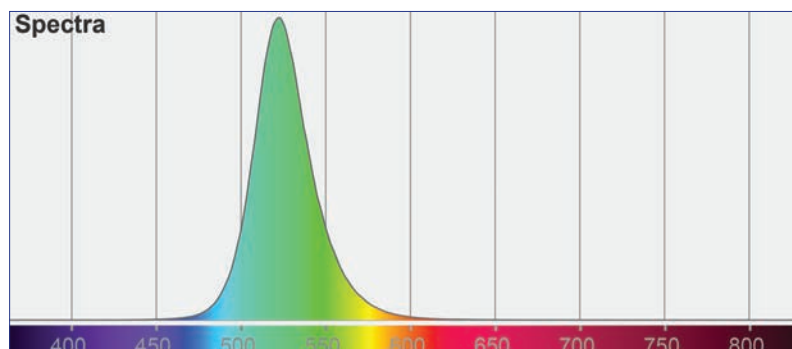


CIE 1931 Zoom



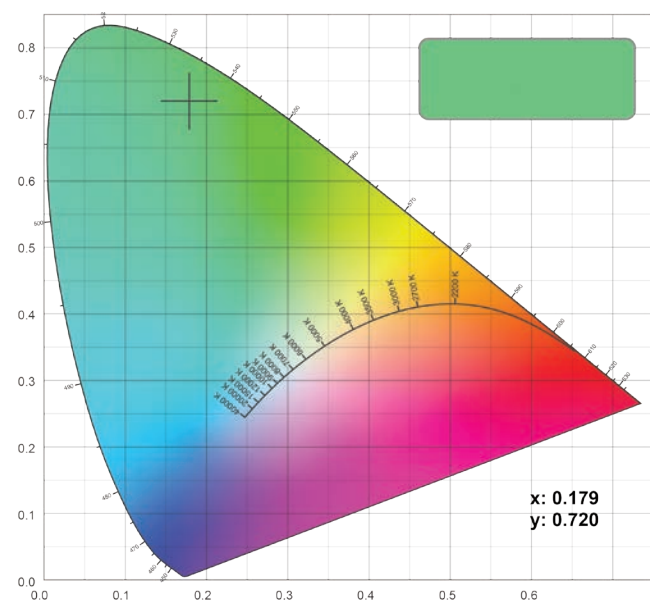
LuxEOS Flood 18 - RGBA (1700K)

Colormetrics **GREEN**

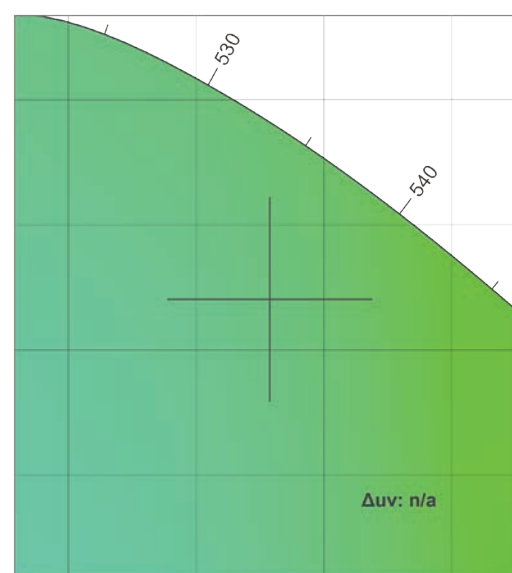


Green Lumen Output : 1618 lm

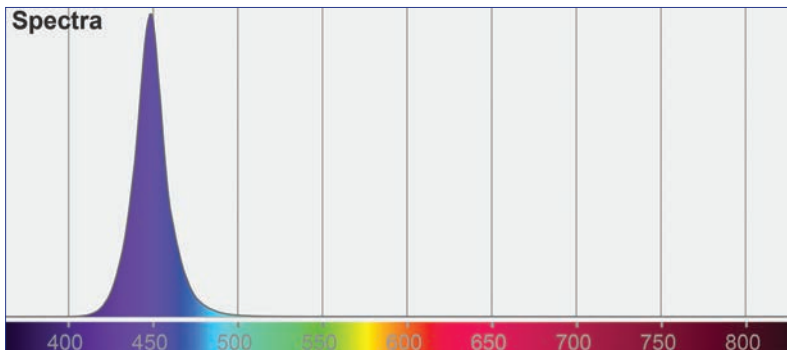
CIE 1931



CIE 1931 Zoom

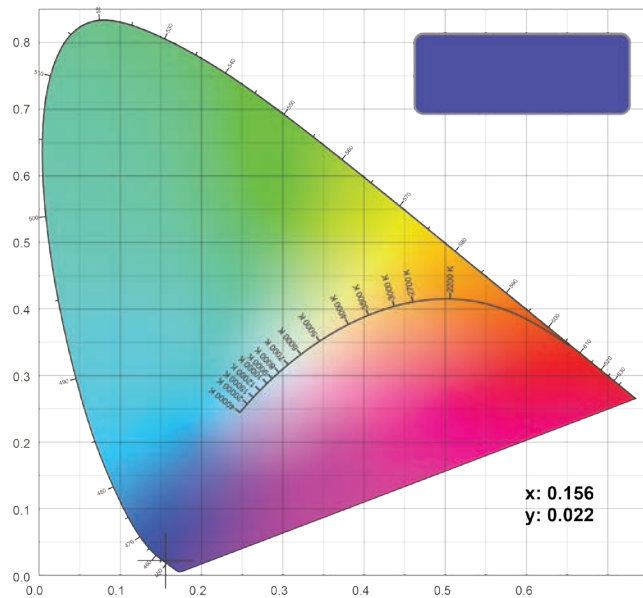


LuxEOS Flood 18 - RGBA (1700K) Colormetrics **BLUE**

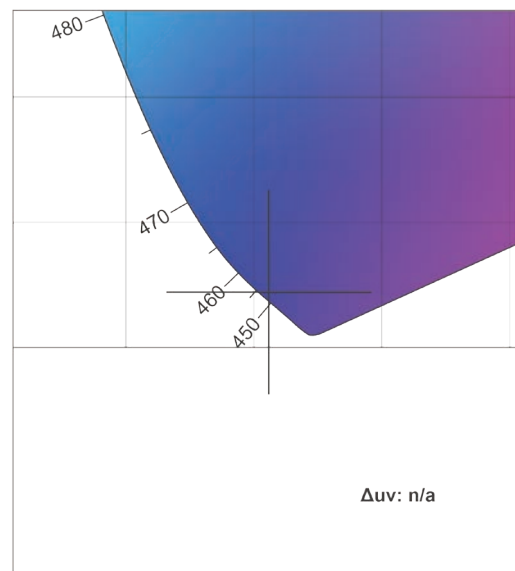


Blue Lumen Output : 356 lm

CIE 1931



CIE 1931 Zoom



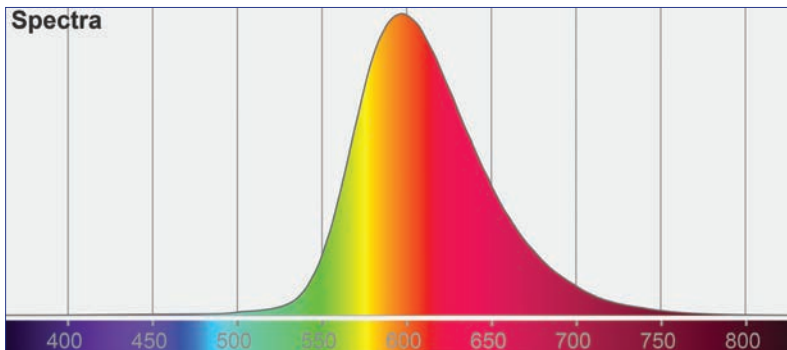
PULSAR

LuxEOS Flood 18 - RGBA (1700K)

Colormetrics **AMBER 1700K**

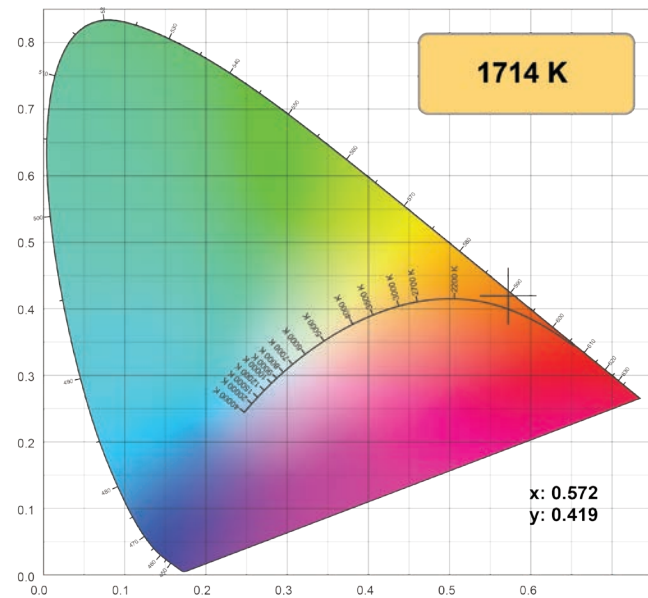


PHOTOMETRIC DATA

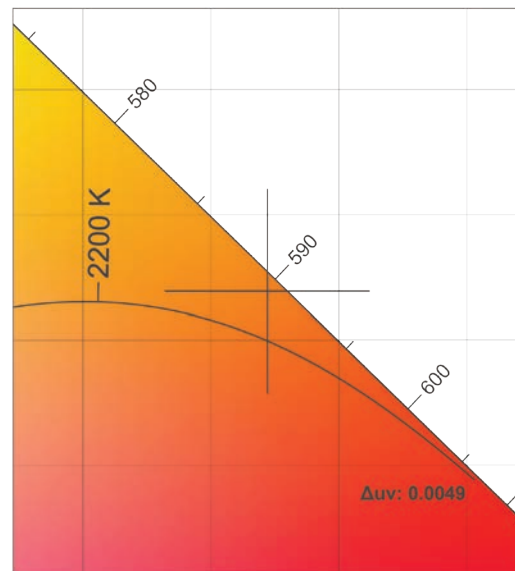


Amber 1700K Lumen Output : 1968 lm

CIE 1931



CIE 1931 Zoom



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

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