

LuxEOS Flood 18 VIVID COLOUR

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 18 - RGBW (5700K)
10° 20° 40° 80° 10x60° 60x10°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

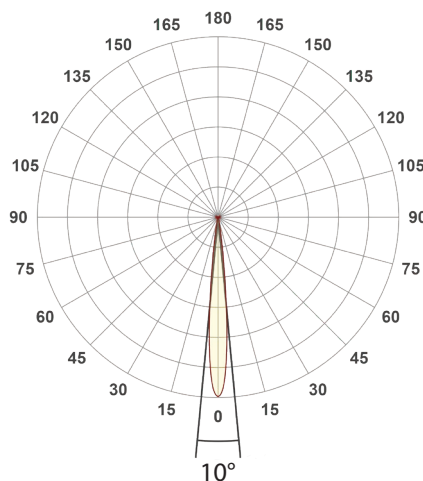
Date
Nov 2020

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

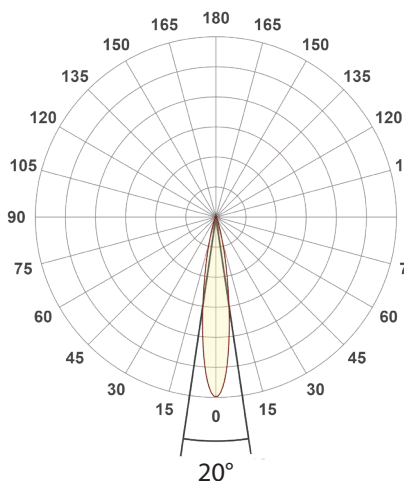
Weight
12 kgs (26.46lbs)

Polar Distribution

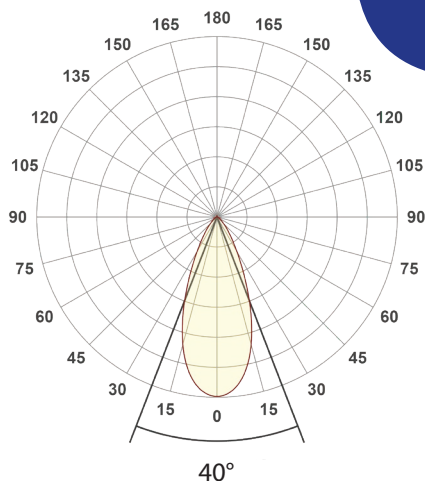
10° Conical Beam (Native)



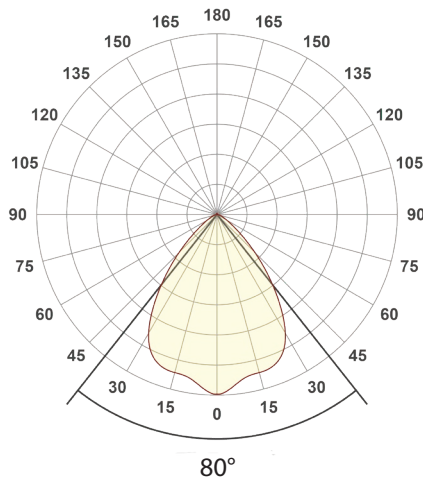
20° Conical Beam (With HBS)



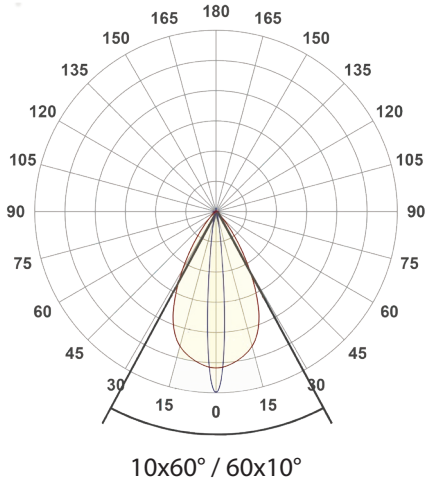
40° Conical Beam (With HBS)

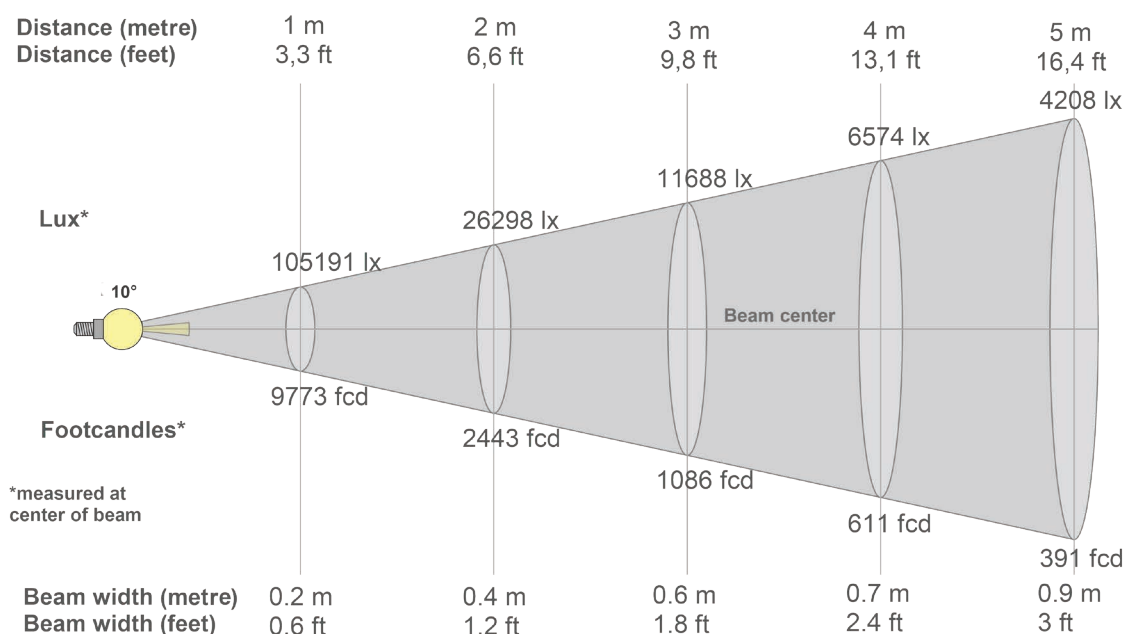


80° Conical Beam (With HBS)

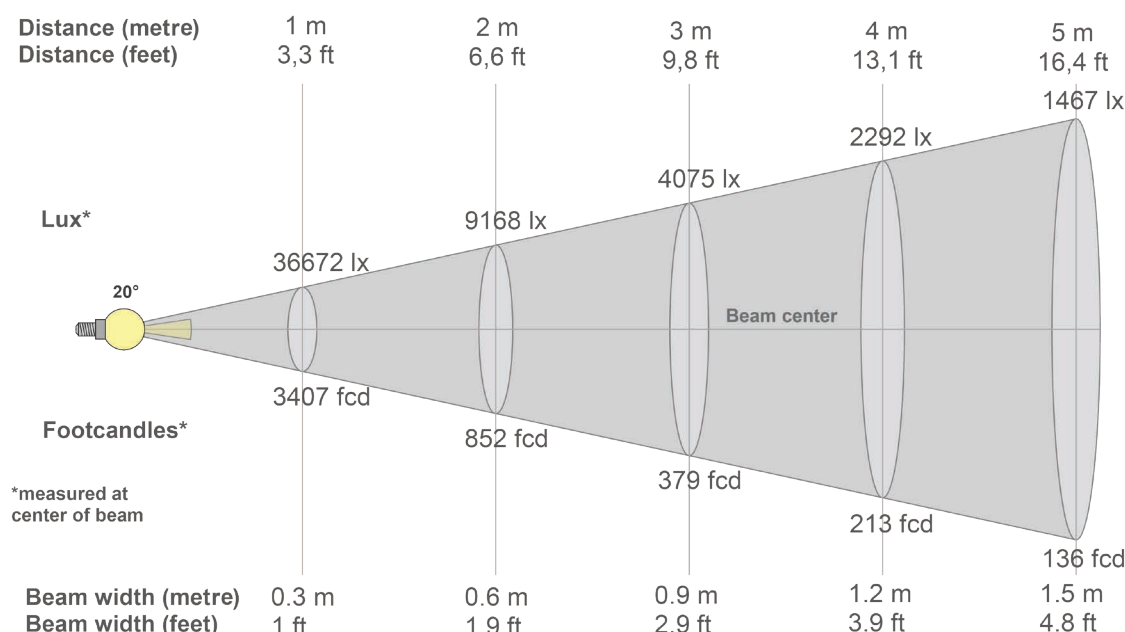


10x60° / 60x10° Elliptical Beam (With HBS)





LuxEOS Flood 18 - 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
36672lx	9168lx	4075lx	2292lx	1467lx	1019lx	748lx	573lx	453lx	367lx	303lx	255lx	217lx	187lx	163lx	143lx	127lx	113lx	102lx	92lx
3407fcd	851.7fcd	378.6fcd	212.9fcd	136.3fcd	94.6fcd	69.5fcd	53.2fcd	42.1fcd	34.1fcd	28.2fcd	23.7fcd	20.2fcd	17.4fcd	15.1fcd	13.3fcd	11.8fcd	10.5fcd	9.4fcd	8.5fcd

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°
36.7K	36.4K	35.3K	33.5K	31.2K	28.5K	25.5K	22.5K	19.4K	16.6K	13.9K	11.6K	9.5K	7.8K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K
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°
36.7K	36.4K	35.3K	33.5K	31.2K	28.5K	25.5K	22.5K	19.4K	16.6K	13.9K	11.6K	9.5K	7.8K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K
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°
36.7K	36.4K	35.3K	33.5K	31.2K	28.5K	25.5K	22.5K	19.4K	16.6K	13.9K	11.6K	9.5K	7.8K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K
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°
36.7K	36.4K	35.3K	33.5K	31.2K	28.5K	25.5K	22.5K	19.4K	16.6K	13.9K	11.6K	9.5K	7.8K	6.3K	5.1K	4.1K	3.3K	2.7K	2.2K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

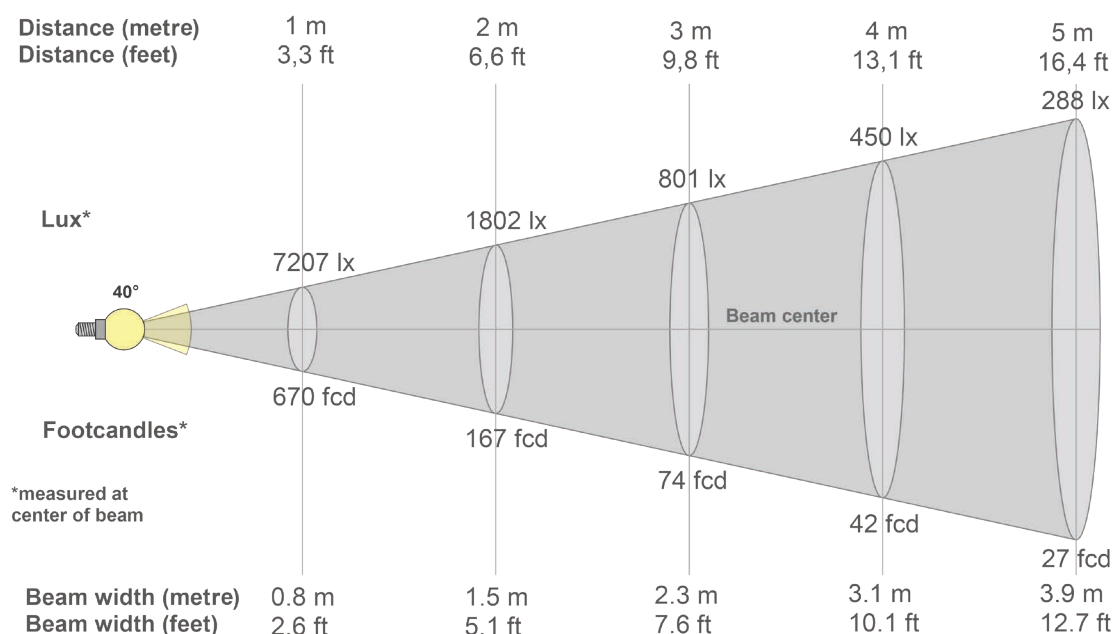
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

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LuxEOS Flood 18 - 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
7207lx	1802lx	801lx	450lx	288lx	200lx	147lx	113lx	89lx	72lx	60lx	50lx	43lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx
669.5fc	167.4fc	74.4fc	41.8fc	26.8fc	18.6fc	13.7fc	10.5fc	8.3fc	6.7fc	5.5fc	4.6fc	4fc	3.4fc	3fc	2.6fc	2.3fc	2.1fc	1.9fc	1.7fc

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°
7207	7178	7079	6916	6681	6376	5998	5551	5047	4499	3929	3365	2831	2352	1940	1597	1316	1086	898	743
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°
7207	7178	7079	6916	6681	6376	5998	5551	5047	4499	3929	3365	2831	2352	1940	1597	1316	1086	898	743
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°
7207	7178	7079	6916	6681	6376	5998	5551	5047	4499	3929	3365	2831	2352	1940	1597	1316	1086	898	743
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

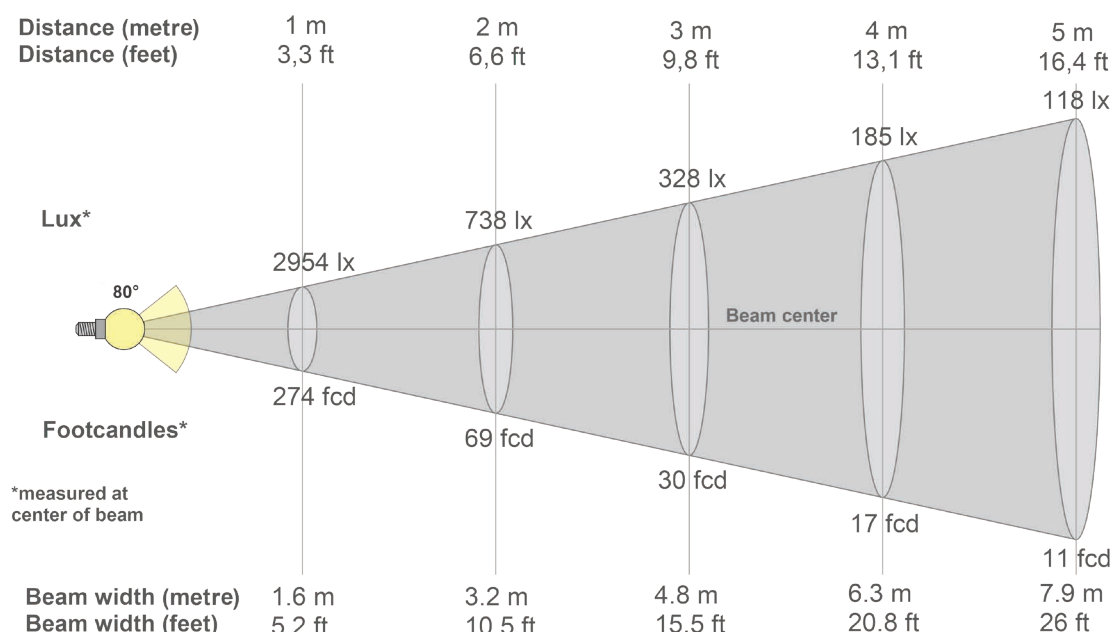
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7207	7178	7079	6916	6681	6376	5998	5551	5047	4499	3929	3365	2831	2352	1940	1597	1316	1086	898	743
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 - 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
2954lx	738lx	328lx	185lx	118lx	82lx	60lx	46lx	36lx	30lx	24lx	21lx	17lx	15lx	13lx	12lx	10lx	9lx	8lx	7lx
274.4fcd	68.6fcd	30.5fcd	17.2fcd	11fcd	7.6fcd	5.6fcd	4.3fcd	3.4fcd	2.7fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.8fcd	0.7fcd

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°
2954	2856	2721	2693	2664	2538	2253	1808	1325	885	533	308	184	117	75	46	23	7	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°
2954	2856	2721	2693	2664	2538	2253	1808	1325	885	533	308	184	117	75	46	23	7	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°
2954	2856	2721	2693	2664	2538	2253	1808	1325	885	533	308	184	117	75	46	23	7	2	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

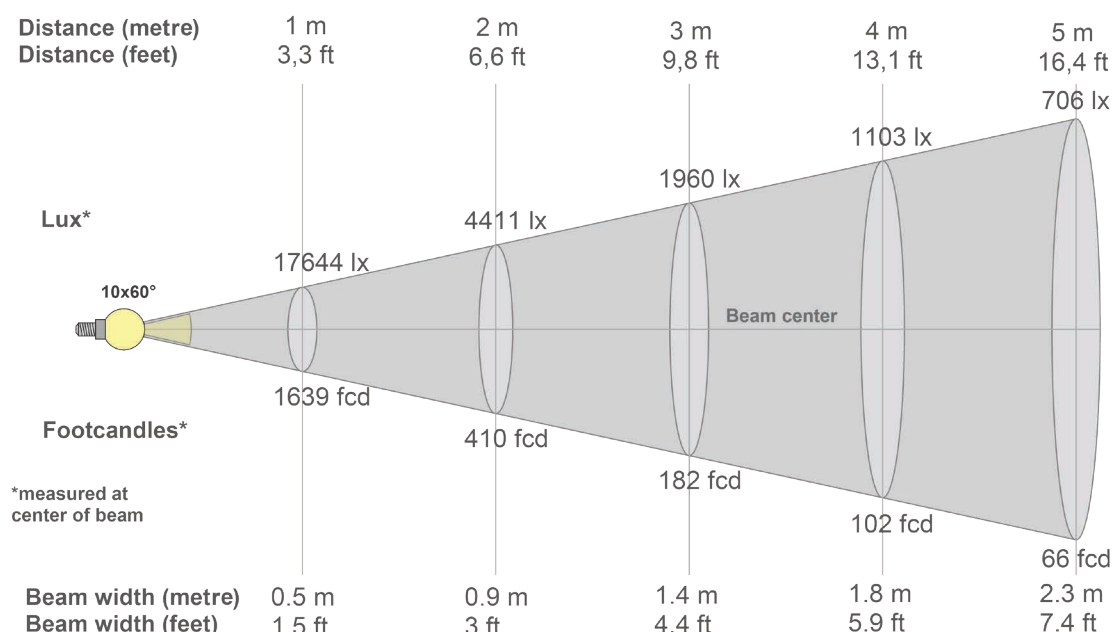
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2954	2856	2721	2693	2664	2538	2253	1808	1325	885	533	308	184	117	75	46	23	7	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%

LuxEOS Flood 18 - 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
17644lx	4411lx	1960lx	1103lx	706lx	490lx	360lx	276lx	218lx	176lx	146lx	123lx	104lx	90lx	78lx	69lx	61lx	54lx	49lx	44lx
1639.2fc	409.8fc	182.1fc	102.4fc	65.6fc	45.5fc	33.5fc	25.6fc	20.2fc	16.4fc	13.5fc	11.4fc	9.7fc	8.4fc	7.3fc	6.4fc	5.7fc	5.1fc	4.5fc	4.1fc

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°
17.6K	16.5K	16.4K	16.2K	16.0K	15.7K	15.4K	15.0K	14.5K	13.9K	13.1K	12.2K	11.0K	9.7K	8.4K	7.1K	5.8K	4.7K	3.7K	2.8K
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°
17.6K	17.4K	12.9K	7.8K	4.2K	2.5K	1.7K	1.2K	0.8K	0.6K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	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°
17.6K	16.5K	16.4K	16.2K	16.0K	15.7K	15.4K	15.0K	14.5K	13.9K	13.1K	12.2K	11.0K	9.7K	8.4K	7.1K	5.8K	4.7K	3.7K	2.8K
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°
17.6K	17.4K	12.9K	7.8K	4.2K	2.5K	1.7K	1.2K	0.8K	0.6K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	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%

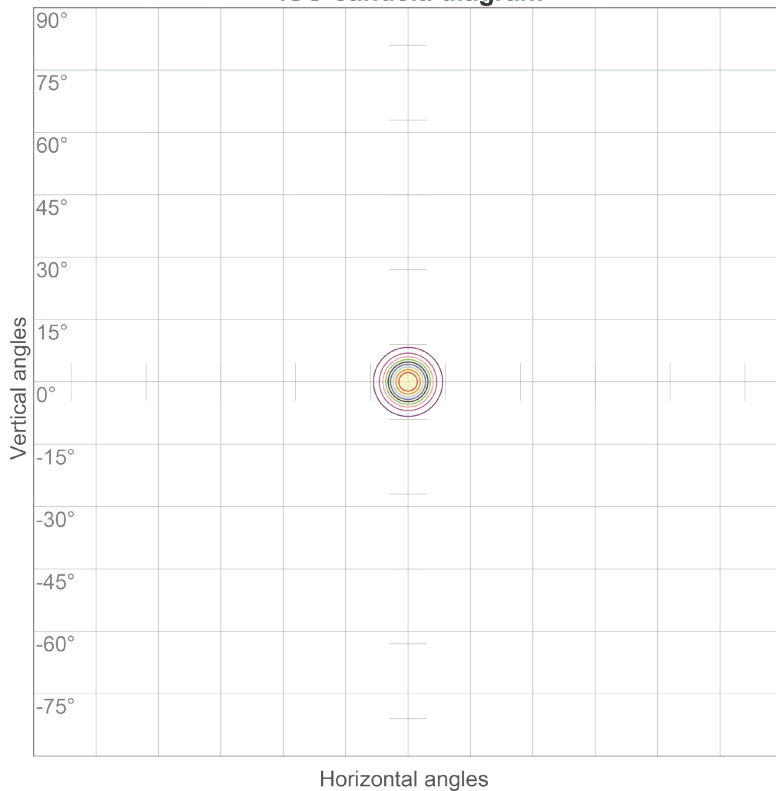
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LuxEOS Flood 18 - RGBW (5700K) ISO Candela & ISO Lux diagrams with 10° Optics



ISO candela diagram



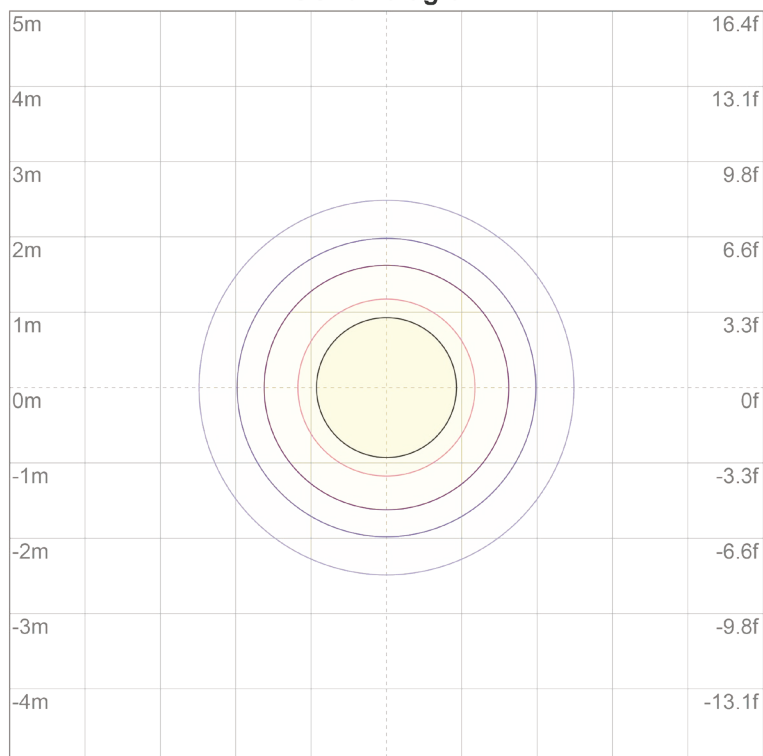
10%	10519 cd
20%	21038 cd
30%	31557 cd
40%	42076 cd
50%	52595 cd
60%	63114 cd
70%	73634 cd
80%	84153 cd
90%	94672 cd

Conditions:

Number of c-planes: 72

Candela at center: 105191 cd

ISO lux diagram



3%	31.6 lx
5%	52.6 lx
10%	105 lx
30%	316 lx
50%	526 lx

Conditions:

Number of c-planes: 72

Lux at center: 1052 lx

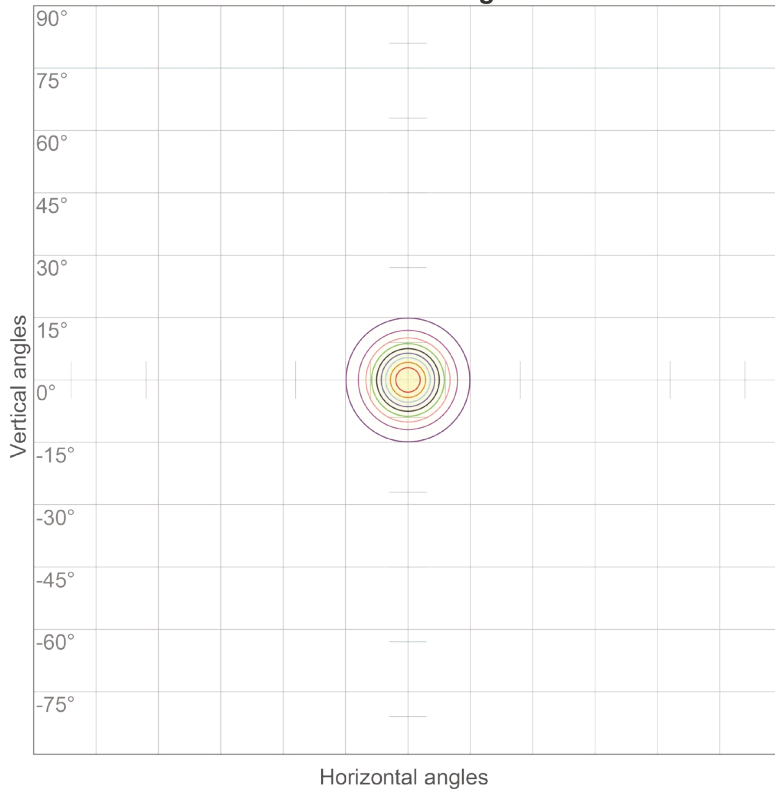
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 18 - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 20° Optics



ISO candela diagram



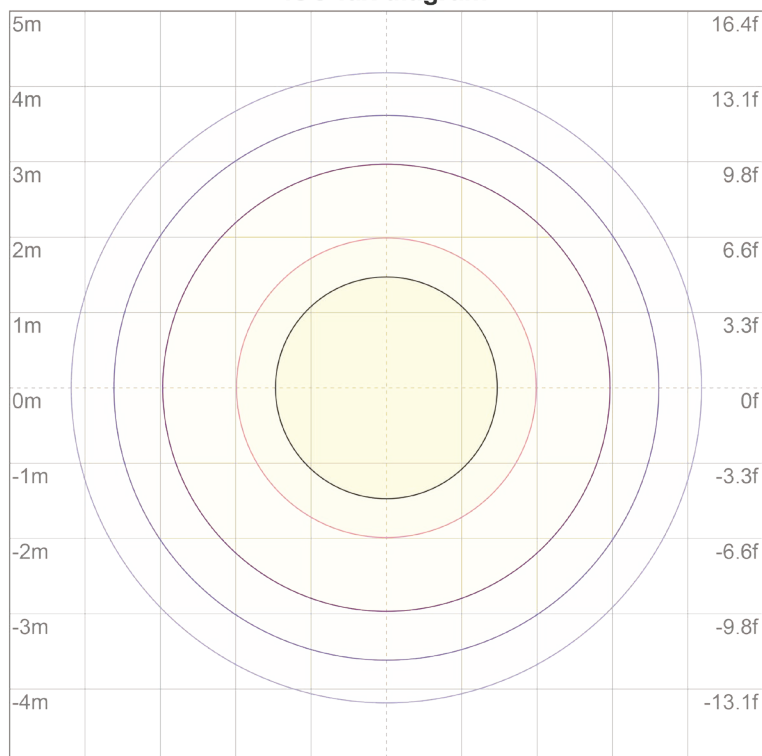
10%	3667 cd
20%	7334 cd
30%	11002 cd
40%	14669 cd
50%	18336 cd
60%	22003 cd
70%	25670 cd
80%	29338 cd
90%	33005 cd

Conditions:

Number of c-planes: 72

Candela at center: 36672 cd

ISO lux diagram



3%	11.0 lx
5%	18.3 lx
10%	36.7 lx
30%	110 lx
50%	183 lx

Conditions:

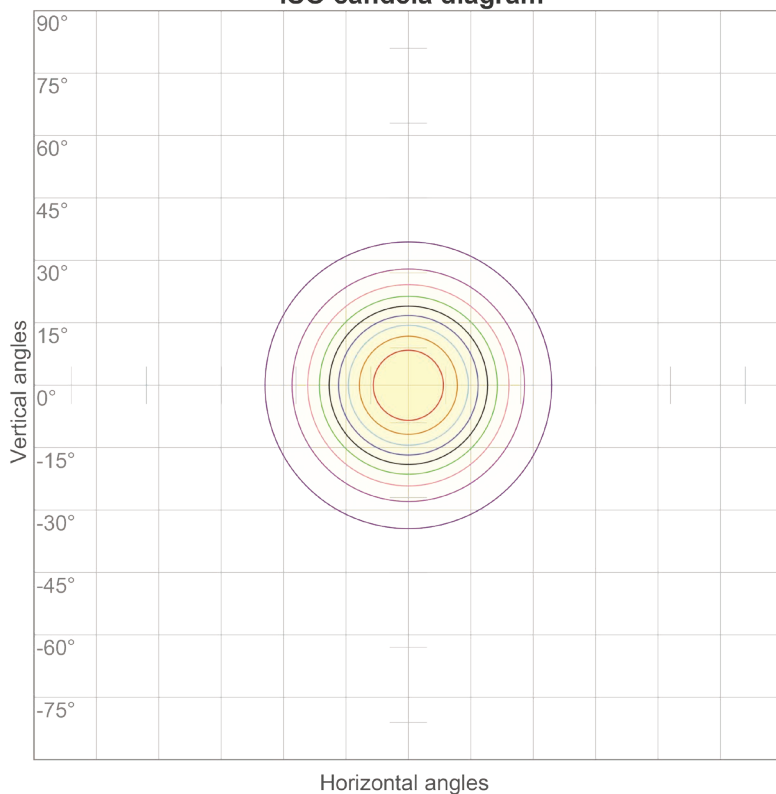
Number of c-planes: 72

Lux at center: 367 lx

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



ISO candela diagram



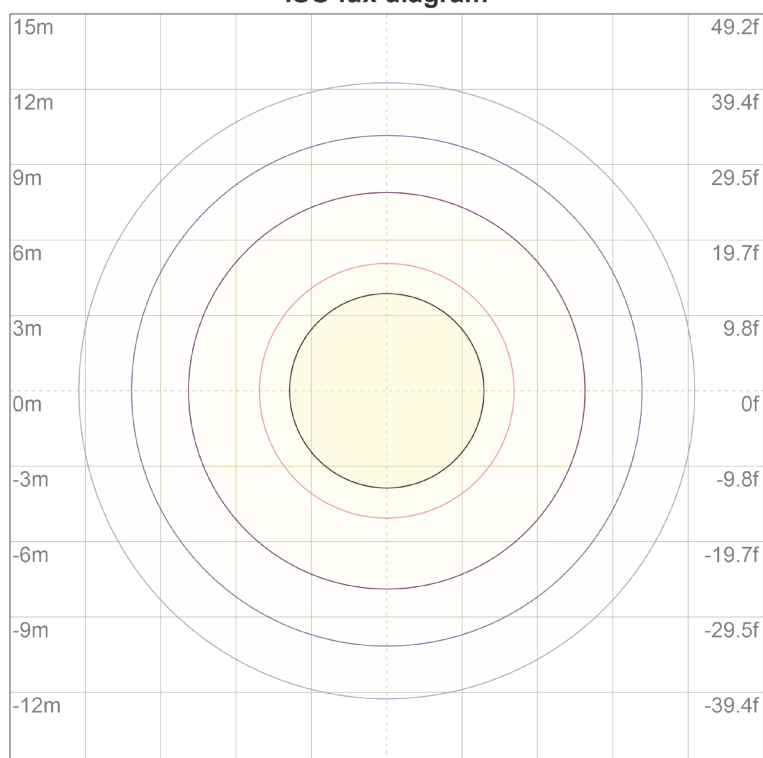
10%	721 cd
20%	1441 cd
30%	2162 cd
40%	2883 cd
50%	3603 cd
60%	4324 cd
70%	5045 cd
80%	5765 cd
90%	6486 cd

Conditions:

Number of c-planes: 72

Candela at center: 7207 cd

ISO lux diagram



3%	2.16 lx
5%	3.60 lx
10%	7.21 lx
30%	21.6 lx
50%	36.0 lx

Conditions:

Number of c-planes: 72

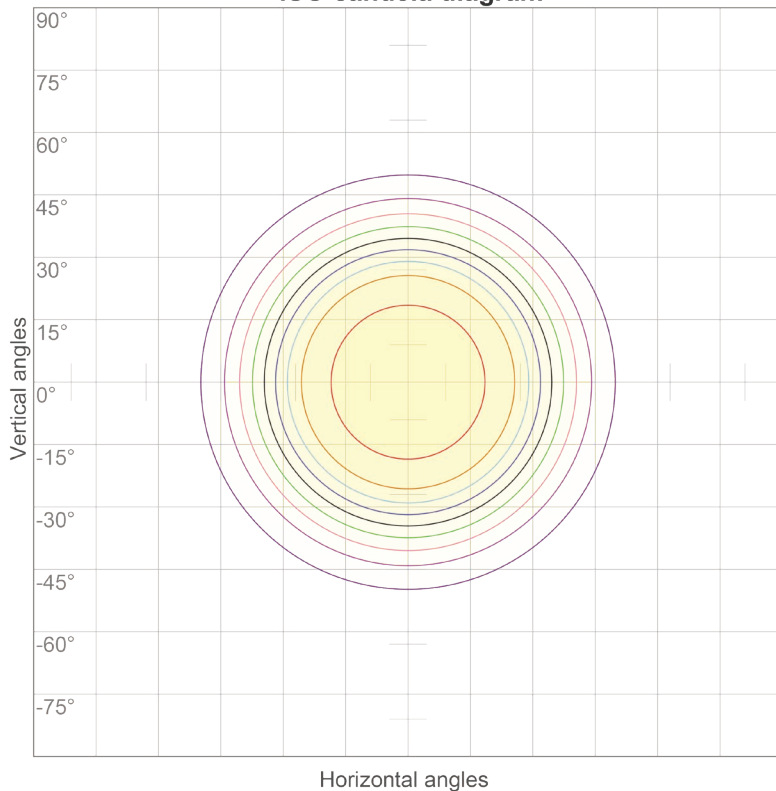
Lux at center: 72.1 lx

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

LuxEOS Flood 18 - RGBW (5700K) ISO Candela & ISO Lux diagrams with 80° Optics



ISO candela diagram



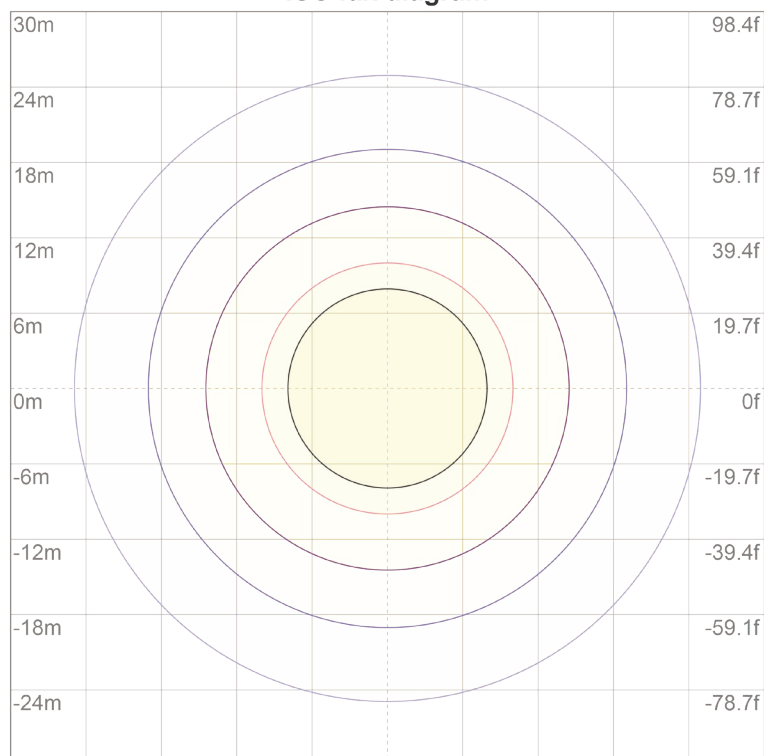
10%	295 cd
20%	591 cd
30%	886 cd
40%	1181 cd
50%	1477 cd
60%	1772 cd
70%	2068 cd
80%	2363 cd
90%	2658 cd

Conditions:

Number of c-planes: 72

Candela at center: 2954 cd

ISO lux diagram



3%	0.886 lx
5%	1.48 lx
10%	2.95 lx
30%	8.86 lx
50%	14.8 lx

Conditions:

Number of c-planes: 72

Lux at center: 29.5 lx

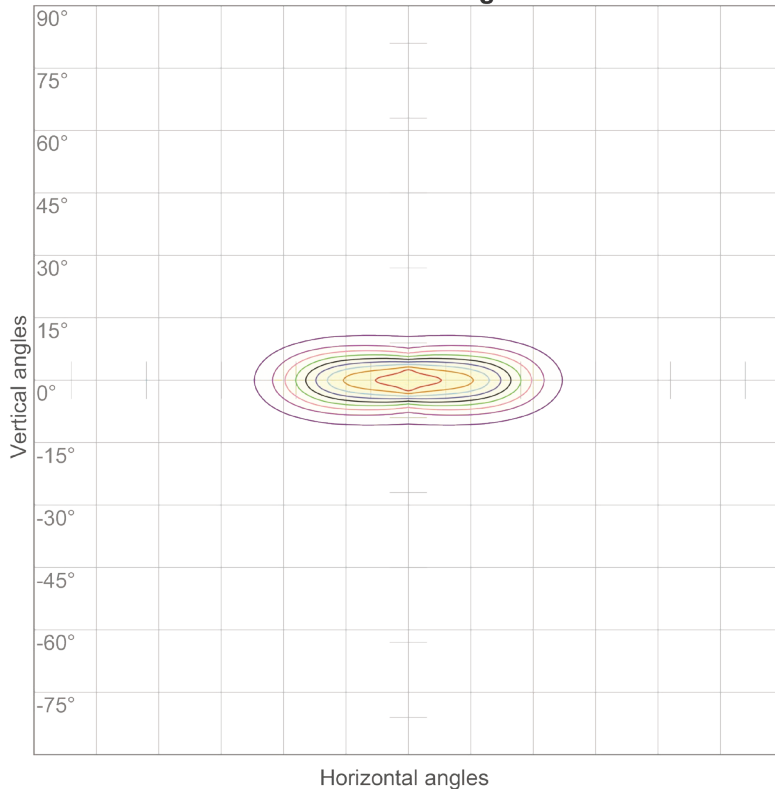
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 18 - RGBW (5700K)

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



ISO candela diagram



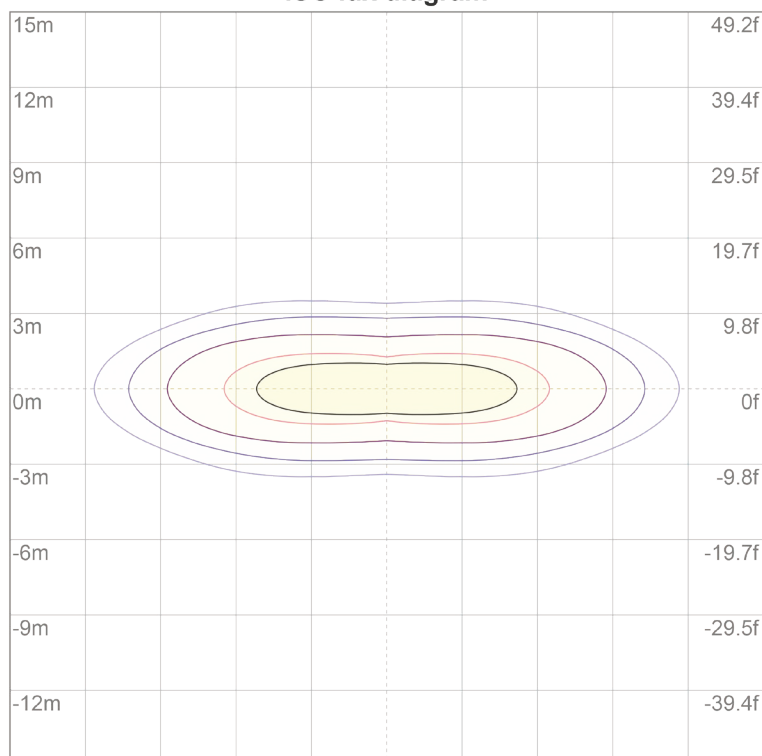
10%	1764 cd
20%	3529 cd
30%	5293 cd
40%	7058 cd
50%	8822 cd
60%	10586 cd
70%	12351 cd
80%	14115 cd
90%	15880 cd

Conditions:

Number of c-planes: 72

Candela at center: 17644 cd

ISO lux diagram



3%	5.29 lx
5%	8.82 lx
10%	17.6 lx
30%	52.9 lx
50%	88.2 lx

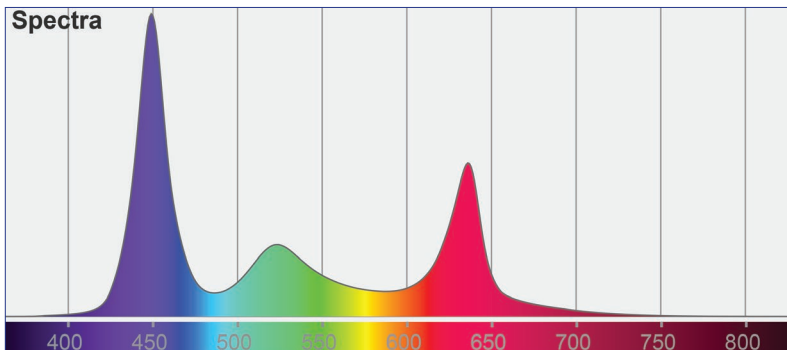
Conditions:

Number of c-planes: 72

Lux at center: 176 lx

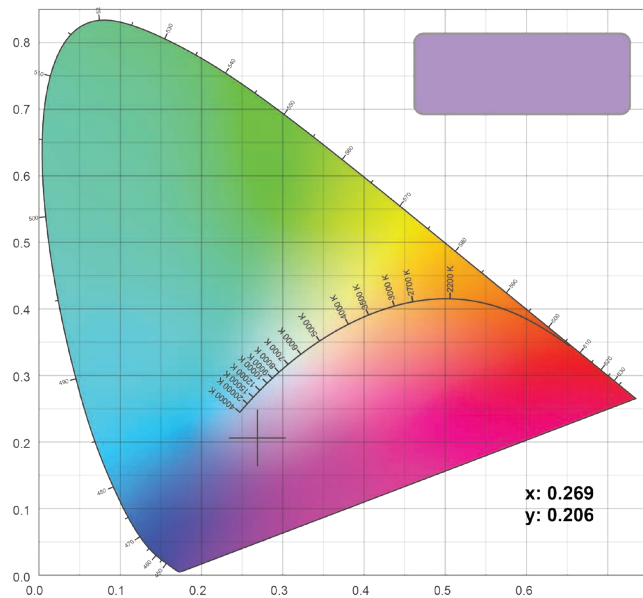
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

LuxEOS Flood 18 - RGBW (5700K) Colormetrics RGBW

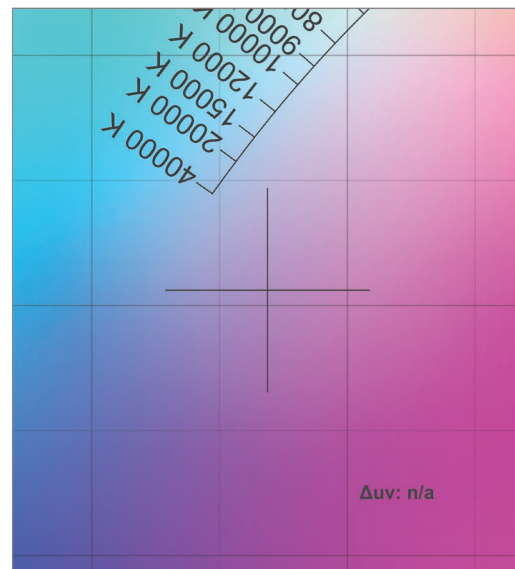


Total Lumen Output (Native) : 4778 lm
Efficacy : 39.81 lm/W
Voltage : 240V
Supply Power : 120W
Supply Power Factor : 0.97

CIE 1931

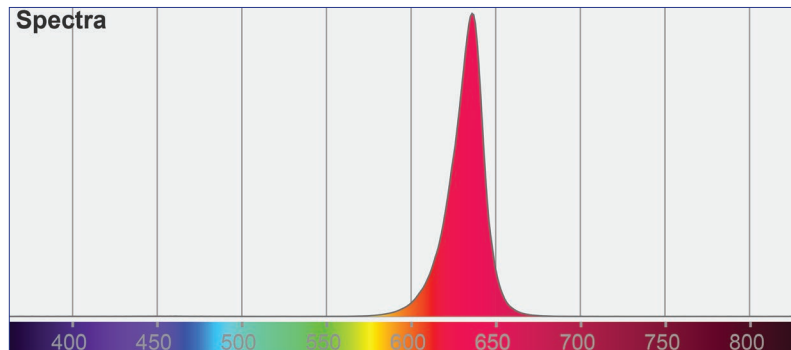


CIE 1931 Zoom



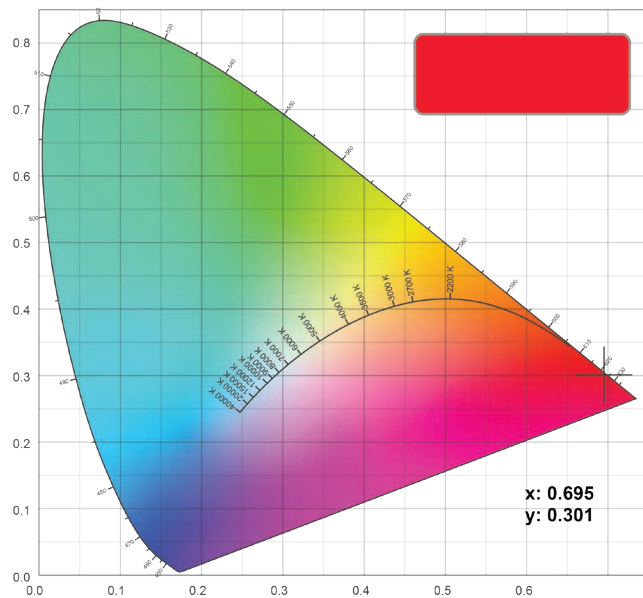
LuxEOS Flood 18 - RGBW (5700K)

Colormetrics **RED**

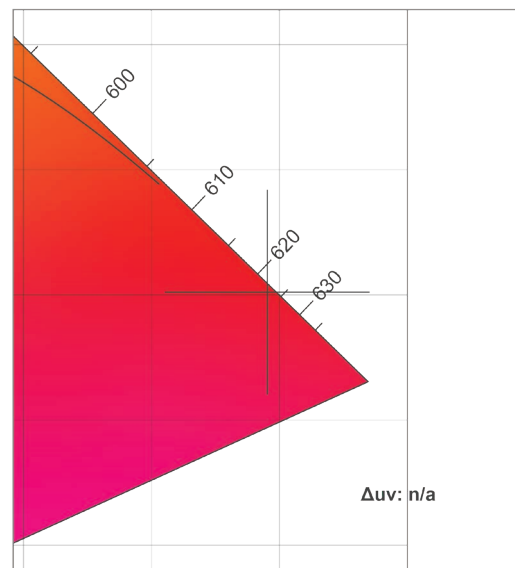


Red Lumen Output : 1054 lm

CIE 1931

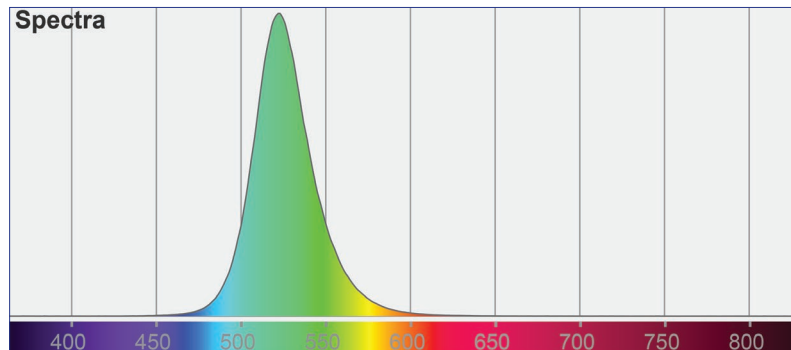


CIE 1931 Zoom



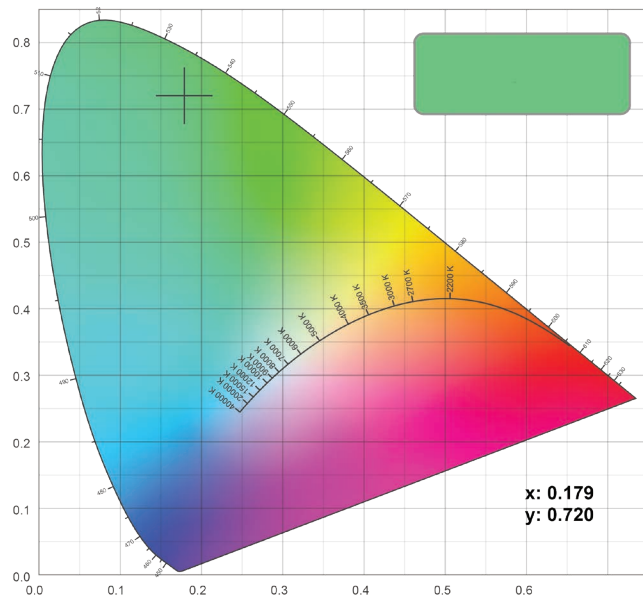
LuxEOS Flood 18 - RGBW (5700K)

Colormetrics **GREEN**

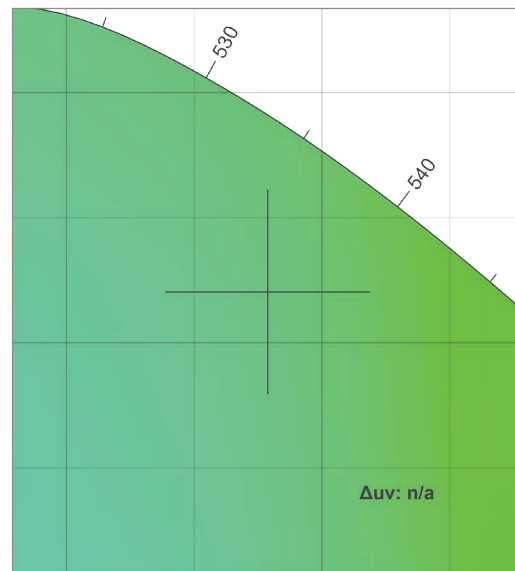


Green Lumen Output : 1618 lm

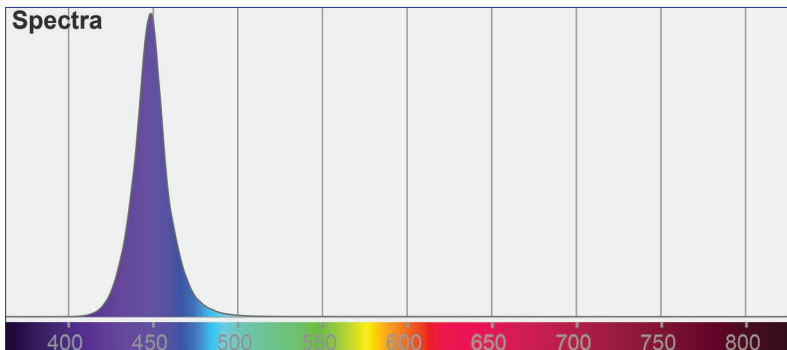
CIE 1931



CIE 1931 Zoom

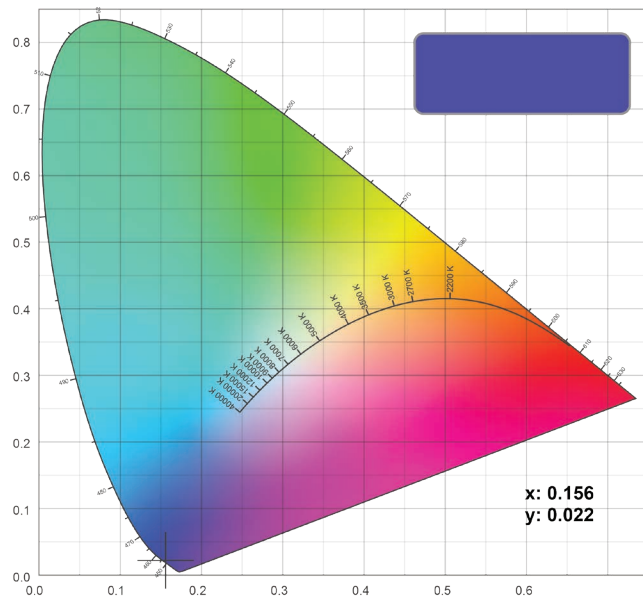


LuxEOS Flood 18 - RGBW (5700K) Colormetrics **BLUE**

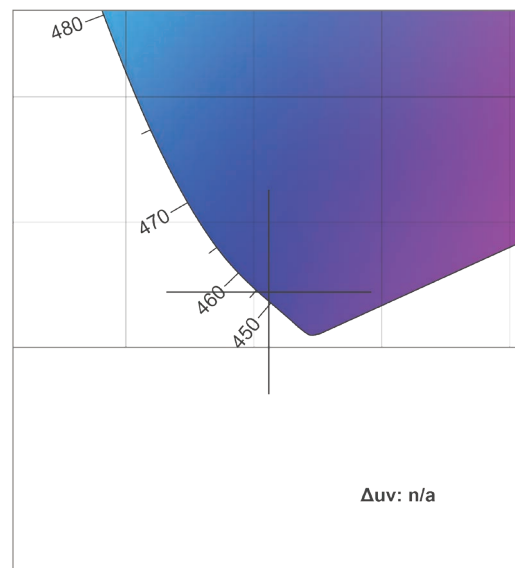


Blue Lumen Output : 356 lm

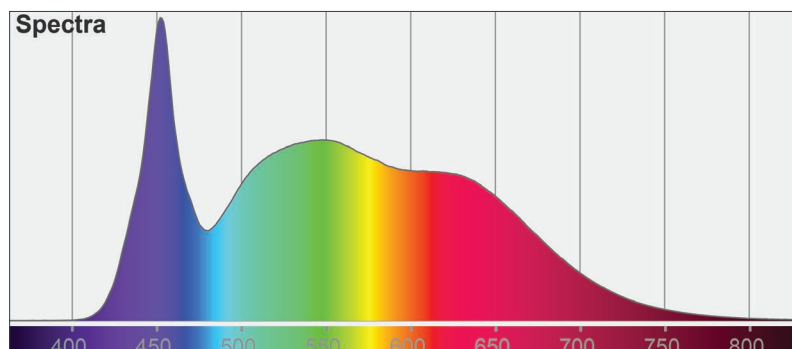
CIE 1931



CIE 1931 Zoom

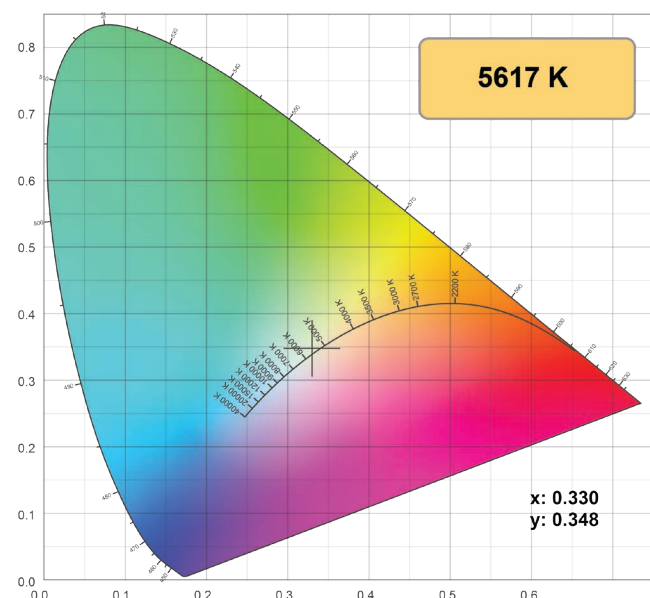


LuxEOS Flood 18 - RGBW (5700K) Colormetrics **WHITE 5700K**

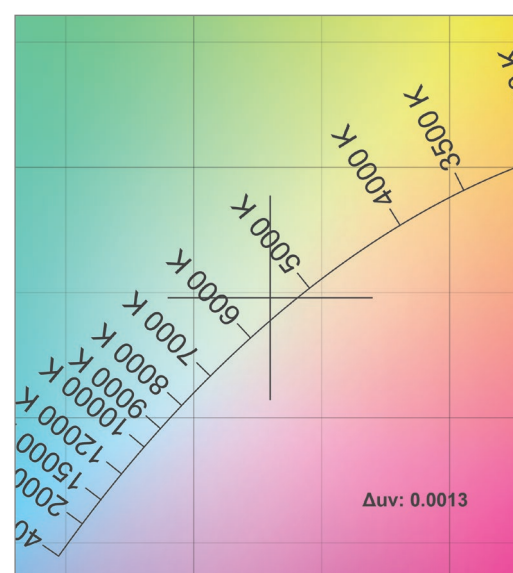


White 5700K Lumen Output : 2902 lm
CRI: 90

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

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