

## LuxEOS Flood 9 VIVID COLOUR

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 9 - RGBW (2700K)  
10° 20° 40° 80° 10x60° 60x10°

Tested By  
DW Windsor Group Laboratory  
Hoddesdon  
UK

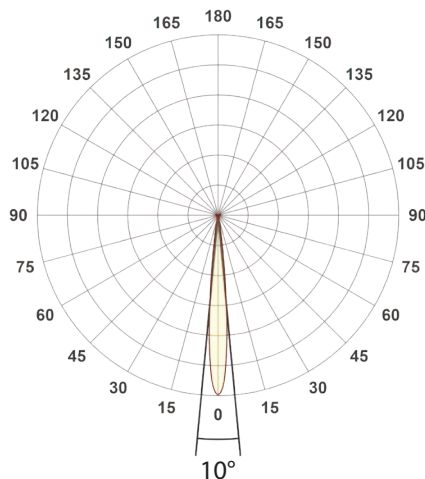
Date  
Nov 2020

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

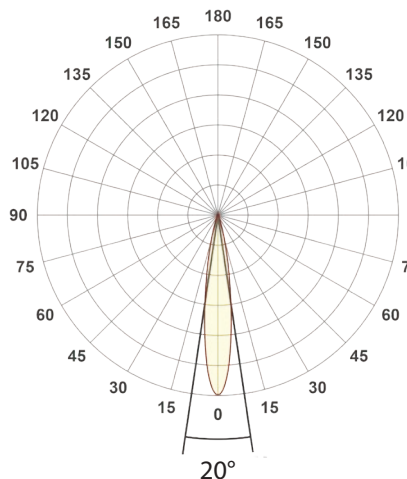
Weight  
7.2 kgs (15.9lbs)

### Polar Distribution

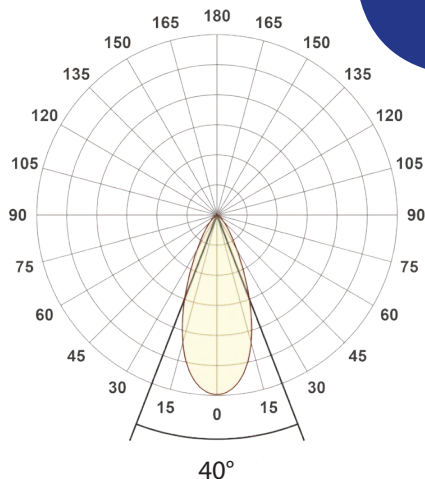
10° Conical Beam (Native)



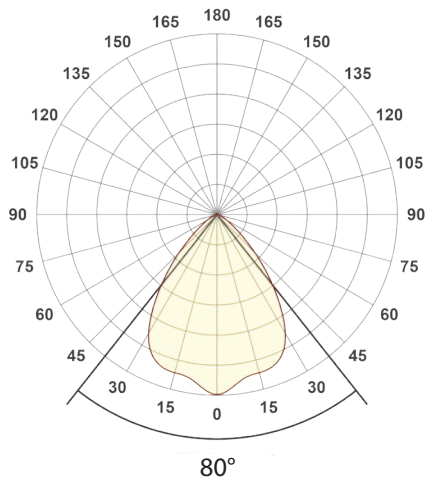
20° Conical Beam (With HBS)



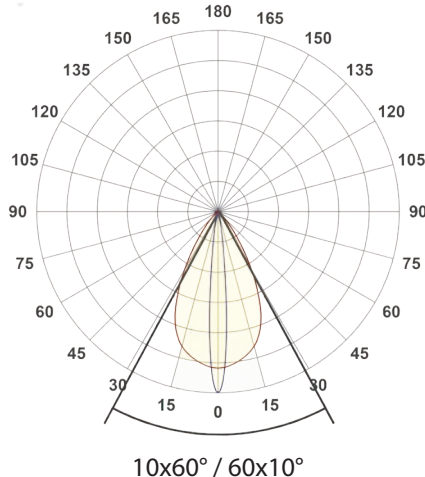
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)

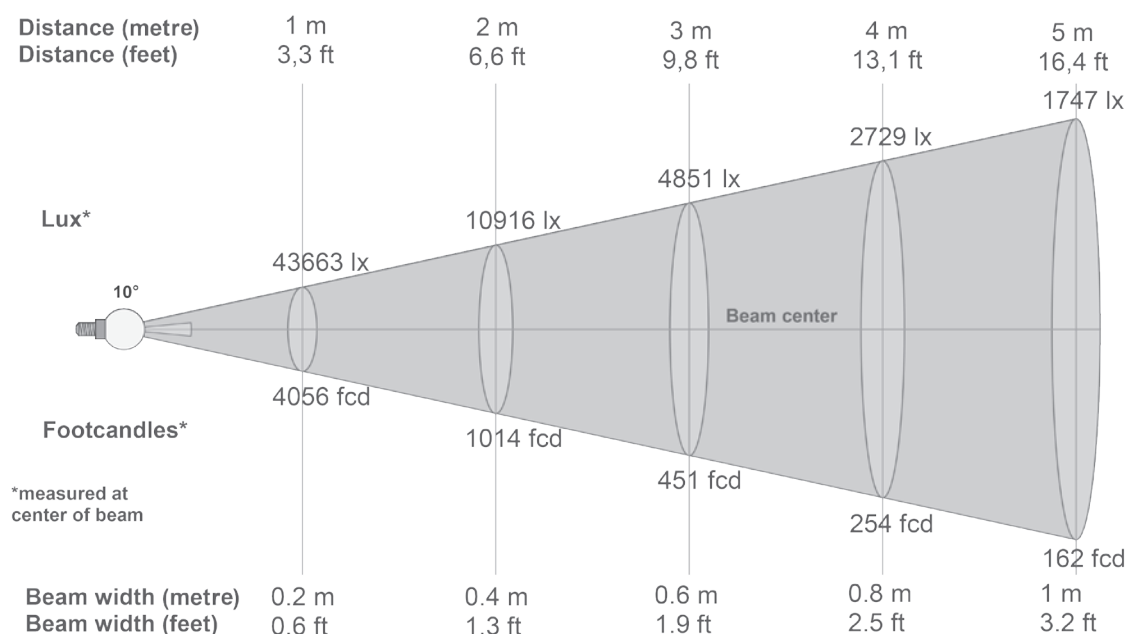


10x60° / 60x10° Elliptical Beam (With HBS)



## LuxEOS Flood 9 - RGBW (2700K)

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
43663lx	10916lx	4851lx	2729lx	1747lx	1213lx	891lx	682lx	539lx	437lx	361lx	303lx	258lx	223lx	194lx	171lx	151lx	135lx	121lx	109lx
4056.4fc	1014.1fc	450.7fc	253.5fc	162.3fc	112.7fc	82.8fc	63.4fc	50.1fc	40.6fc	33.5fc	28.2fc	24fc	20.7fc	18fc	15.8fc	14fc	12.5fc	11.2fc	10.1fc

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°
43.7K	43.0K	41.0K	37.5K	32.1K	25.4K	18.5K	12.5K	8.0K	4.9K	3.1K	2.1K	1.6K	1.4K	1.2K	1.0K	0.9K	0.7K	0.6K	0.5K
100%	98%	94%	86%	74%	58%	42%	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°
43.7K	43.0K	41.0K	37.5K	32.1K	25.4K	18.5K	12.5K	8.0K	4.9K	3.1K	2.1K	1.6K	1.4K	1.2K	1.0K	0.9K	0.7K	0.6K	0.5K
100%	98%	94%	86%	74%	58%	42%	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°
43.7K	43.0K	41.0K	37.5K	32.1K	25.4K	18.5K	12.5K	8.0K	4.9K	3.1K	2.1K	1.6K	1.4K	1.2K	1.0K	0.9K	0.7K	0.6K	0.5K
100%	98%	94%	86%	74%	58%	42%	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°
43.7K	43.0K	41.0K	37.5K	32.1K	25.4K	18.5K	12.5K	8.0K	4.9K	3.1K	2.1K	1.6K	1.4K	1.2K	1.0K	0.9K	0.7K	0.6K	0.5K
100%	98%	94%	86%	74%	58%	42%	29%	18%	11%	7%	5%	4%	3%	3%	2%	2%	2%	1%	1%

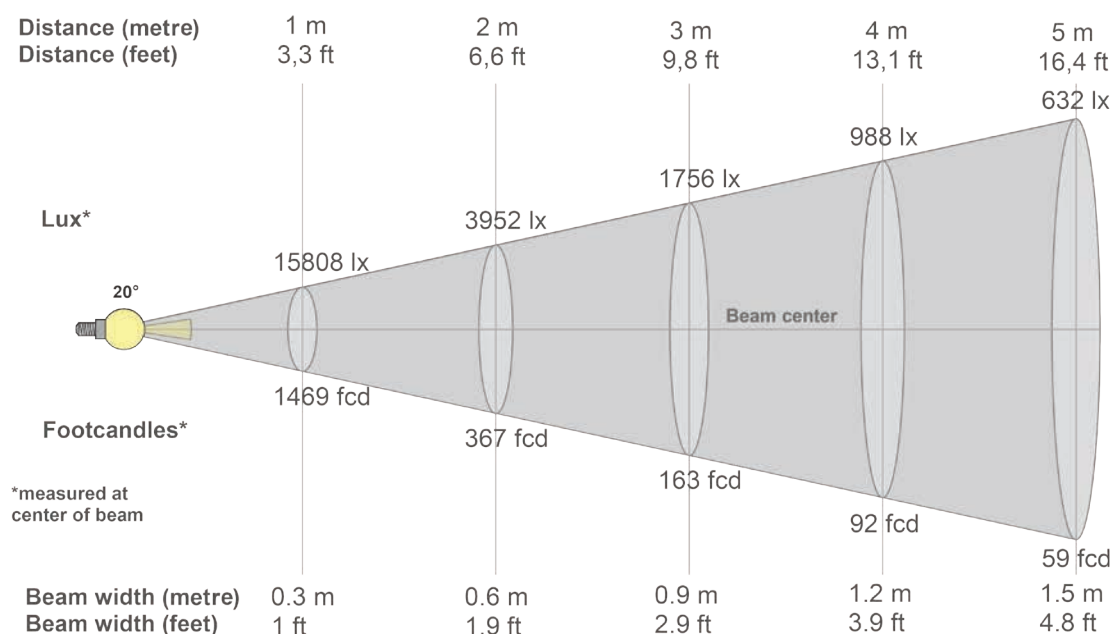
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11°	18.5°	29.3°	97.8%	96.4%

### DW Windsor

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## LuxEOS Flood 9 - RGBW (2700K)

### 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
15808lx	3952lx	1756lx	988lx	632lx	439lx	323lx	247lx	195lx	158lx	131lx	110lx	94lx	81lx	70lx	62lx	55lx	49lx	44lx	40lx
1468.6fcd	367.1fcd	163.2fcd	91.8fcd	58.7fcd	40.8fcd	30fcd	22.9fcd	18.1fcd	14.7fcd	12.1fcd	10.2fcd	8.7fcd	7.5fcd	6.5fcd	5.7fcd	5.1fcd	4.5fcd	4.1fcd	3.7fcd

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°
15.8K	15.7K	15.2K	14.4K	13.4K	12.3K	11.0K	9.7K	8.4K	7.1K	6.0K	5.0K	4.1K	3.3K	2.7K	2.2K	1.8K	1.4K	1.2K	0.9K
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°
15.8K	15.7K	15.2K	14.4K	13.4K	12.3K	11.0K	9.7K	8.4K	7.1K	6.0K	5.0K	4.1K	3.3K	2.7K	2.2K	1.8K	1.4K	1.2K	0.9K
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°
15.8K	15.7K	15.2K	14.4K	13.4K	12.3K	11.0K	9.7K	8.4K	7.1K	6.0K	5.0K	4.1K	3.3K	2.7K	2.2K	1.8K	1.4K	1.2K	0.9K
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°
15.8K	15.7K	15.2K	14.4K	13.4K	12.3K	11.0K	9.7K	8.4K	7.1K	6.0K	5.0K	4.1K	3.3K	2.7K	2.2K	1.8K	1.4K	1.2K	0.9K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

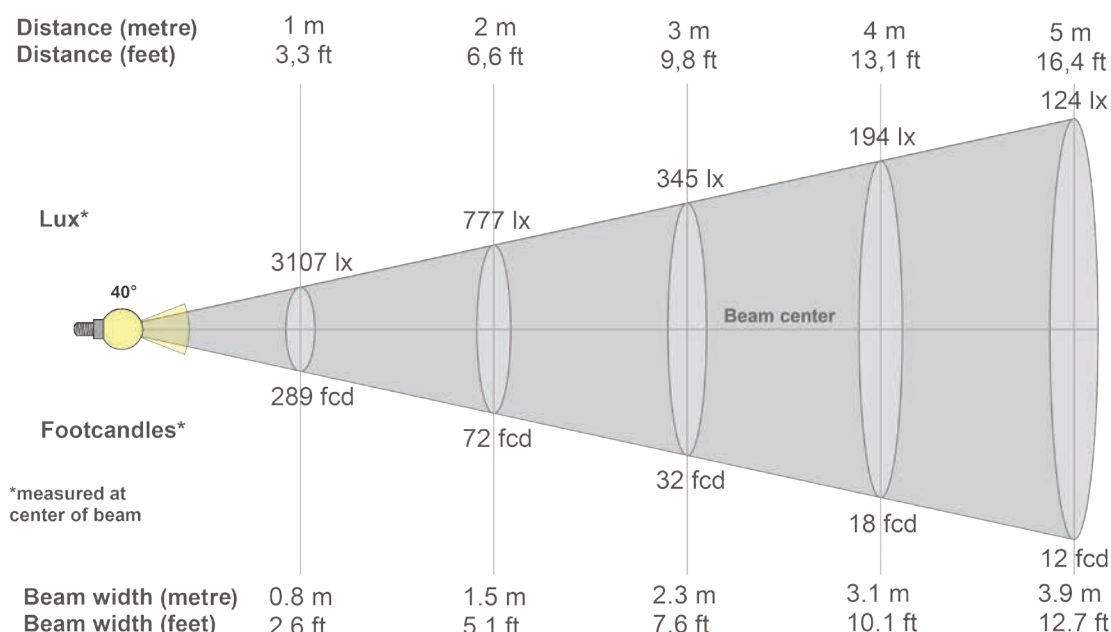
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

### DW Windsor

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## LuxEOS Flood 9 - RGBW (2700K)

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
3107lx	777lx	345lx	194lx	124lx	86lx	63lx	49lx	38lx	31lx	26lx	22lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx	8lx
288.6fcd	72.2fcd	32.1fcd	18fcd	11.5fcd	8fcd	5.9fcd	4.5fcd	3.6fcd	2.9fcd	2.4fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

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°
3107	3094	3052	2981	2880	2748	2586	2393	2176	1939	1694	1450	1220	1014	836	688	567	468	387	320
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°
3107	3094	3052	2981	2880	2748	2586	2393	2176	1939	1694	1450	1220	1014	836	688	567	468	387	320
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°
3107	3094	3052	2981	2880	2748	2586	2393	2176	1939	1694	1450	1220	1014	836	688	567	468	387	320
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

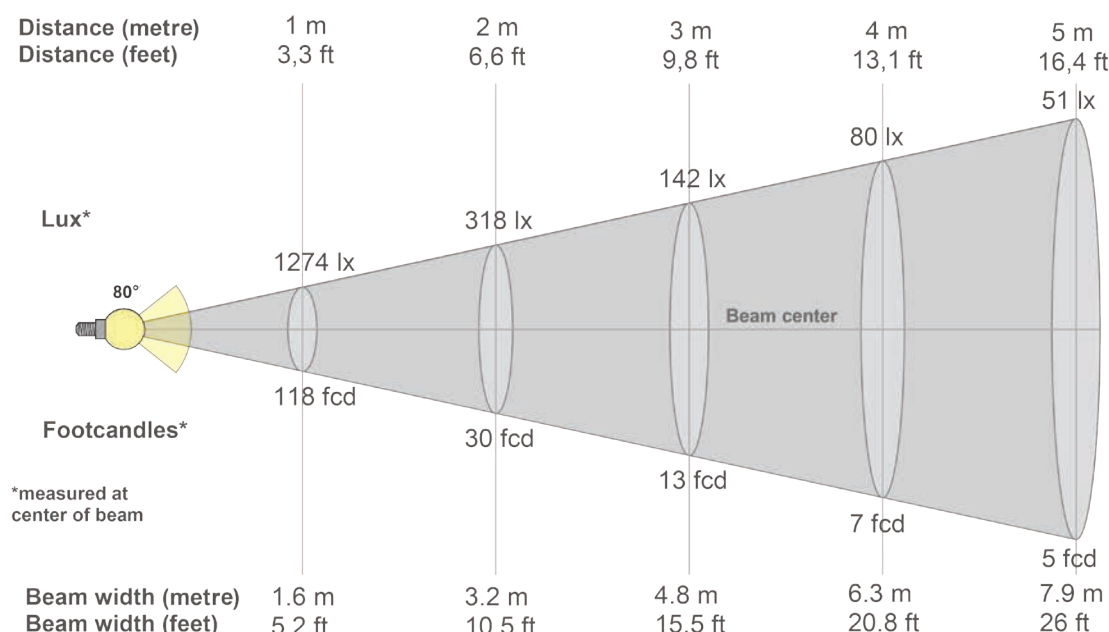
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3107	3094	3052	2981	2880	2748	2586	2393	2176	1939	1694	1450	1220	1014	836	688	567	468	387	320
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

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 9 - RGBW (2700K)

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
1274lx	318lx	142lx	80lx	51lx	35lx	26lx	20lx	16lx	13lx	11lx	9lx	8lx	6lx	6lx	5lx	4lx	4lx	4lx	3lx
118.3fcd	29.6fcd	13.1fcd	7.4fcd	4.7fcd	3.3fcd	2.4fcd	1.8fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

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°
1274	1231	1173	1161	1149	1094	971	779	571	381	230	133	79	50	33	20	10	3	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°
1274	1231	1173	1161	1149	1094	971	779	571	381	230	133	79	50	33	20	10	3	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°
1274	1231	1173	1161	1149	1094	971	779	571	381	230	133	79	50	33	20	10	3	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°
1274	1231	1173	1161	1149	1094	971	779	571	381	230	133	79	50	33	20	10	3	1	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

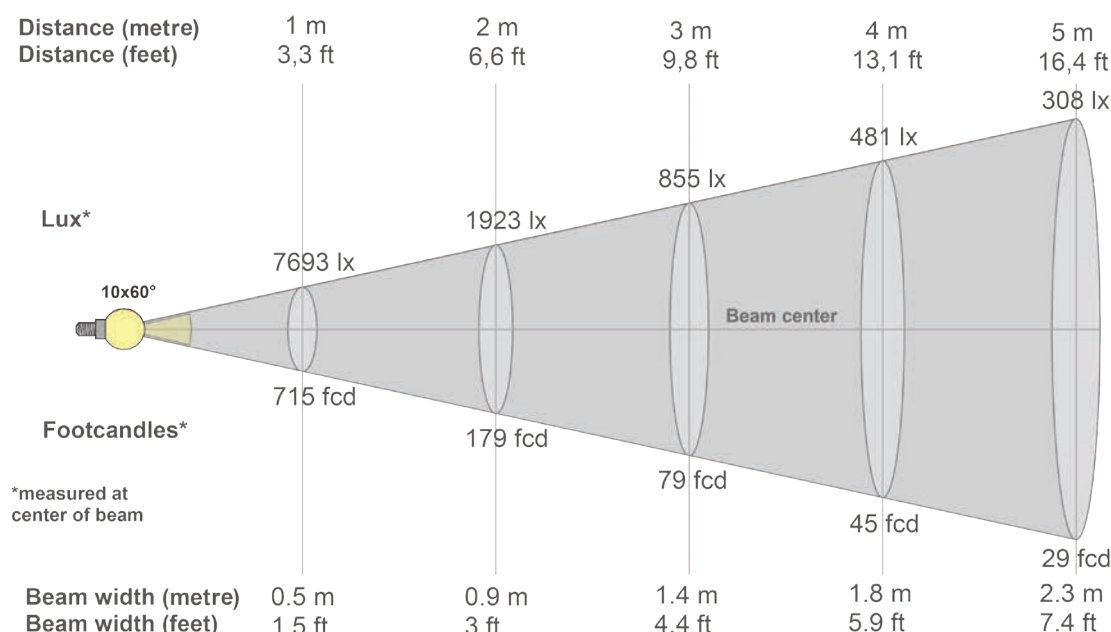
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76.8°	110.8°	140.5°	95.0%	82.4%

### DW Windsor

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## LuxEOS Flood 9 - RGBW (2700K)

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
7693lx	1923lx	855lx	481lx	308lx	214lx	157lx	120lx	95lx	77lx	64lx	53lx	46lx	39lx	34lx	30lx	27lx	24lx	21lx	19lx
714.7fcd	178.7fcd	79.4fcd	44.7fcd	28.6fcd	19.9fcd	14.6fcd	11.2fcd	8.8fcd	7.1fcd	5.9fcd	5fcd	4.2fcd	3.6fcd	3.2fcd	2.8fcd	2.5fcd	2.2fcd	2fcd	1.8fcd

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°
7693	7215	7160	7074	6970	6850	6711	6543	6332	6060	5720	5301	4805	4249	3671	3096	2547	2041	1593	1214
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°
7693	7608	5636	3391	1831	1075	730	519	365	261	195	152	121	98	82	70	60	52	46	40
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°
7693	7215	7160	7074	6970	6850	6711	6543	6332	6060	5720	5301	4805	4249	3671	3096	2547	2041	1593	1214
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°
7693	7608	5636	3391	1831	1075	730	519	365	261	195	152	121	98	82	70	60	52	46	40
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

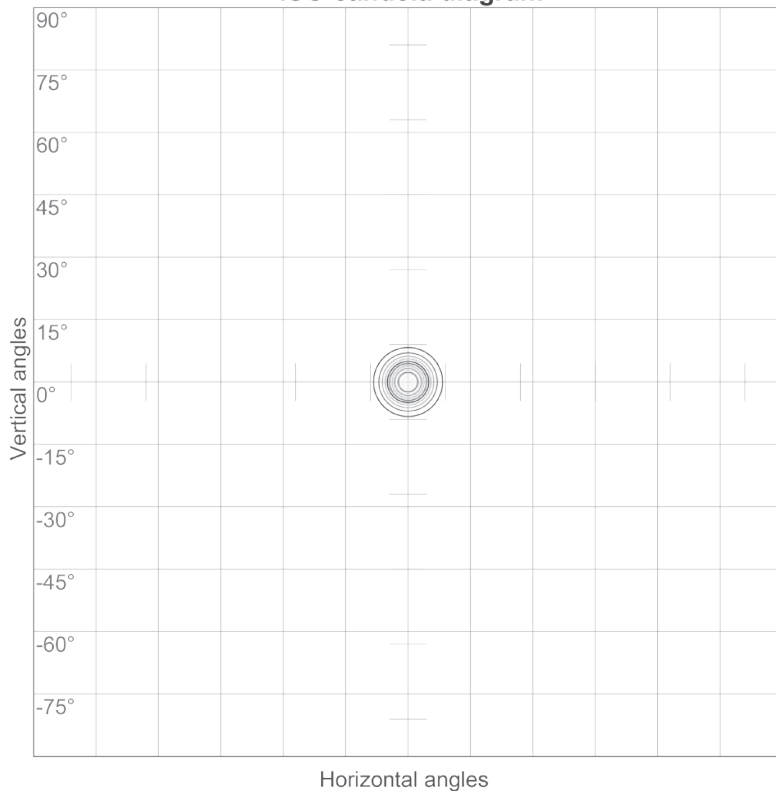
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## LuxEOS Flood 9 - RGBW (2700K)

ISO Candela & ISO Lux diagrams with 10° Optics



ISO candela diagram



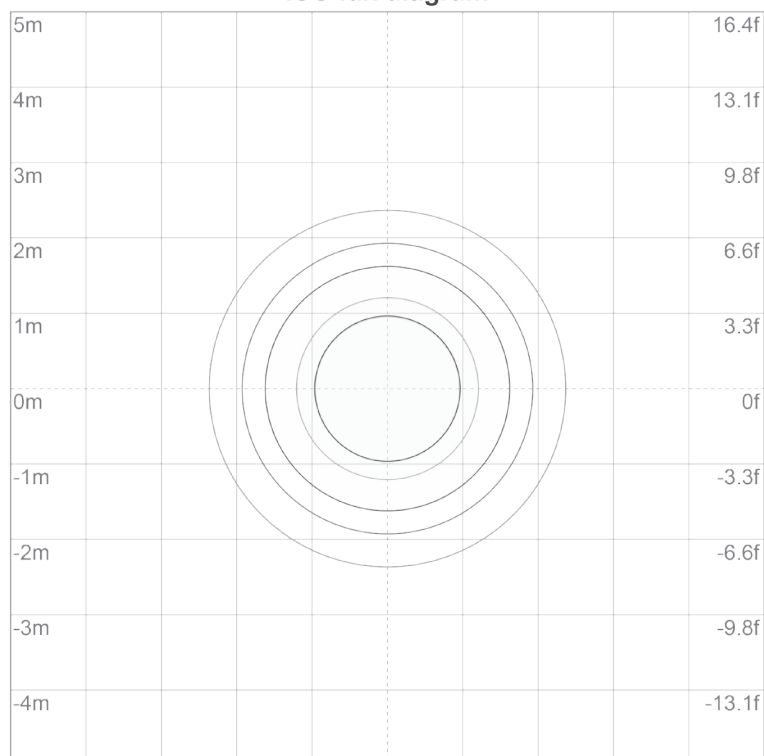
10%	4366 cd
20%	8733 cd
30%	13099 cd
40%	17465 cd
50%	21832 cd
60%	26198 cd
70%	30564 cd
80%	34931 cd
90%	39297 cd

Conditions:

Number of c-planes: 72

Candela at center: 43663 cd

ISO lux diagram



3%	13.1 lx
5%	21.8 lx
10%	43.7 lx
30%	131 lx
50%	218 lx

Conditions:

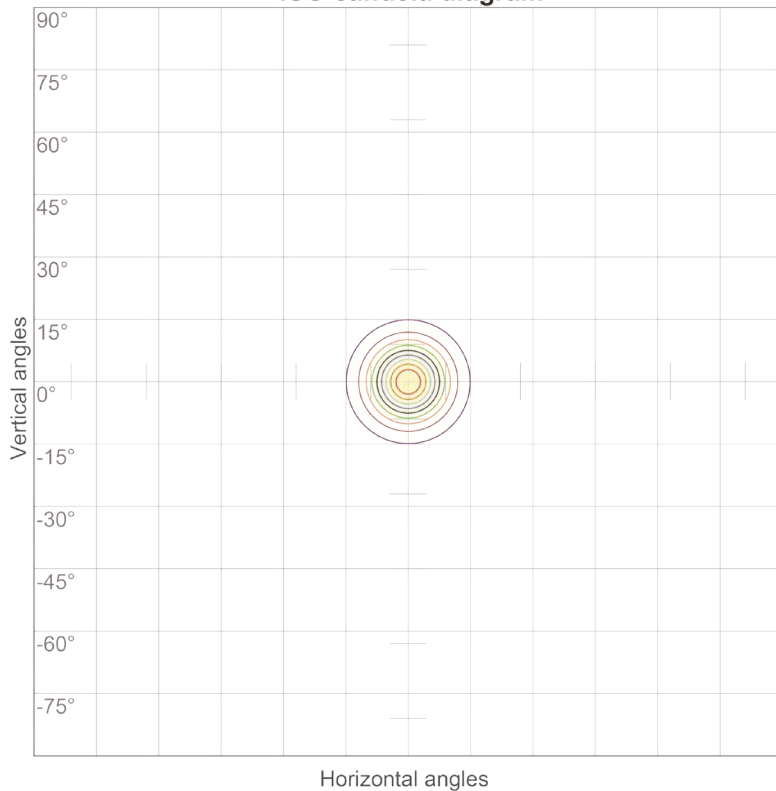
Number of c-planes: 72

Lux at center: 437 lx

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



ISO candela diagram



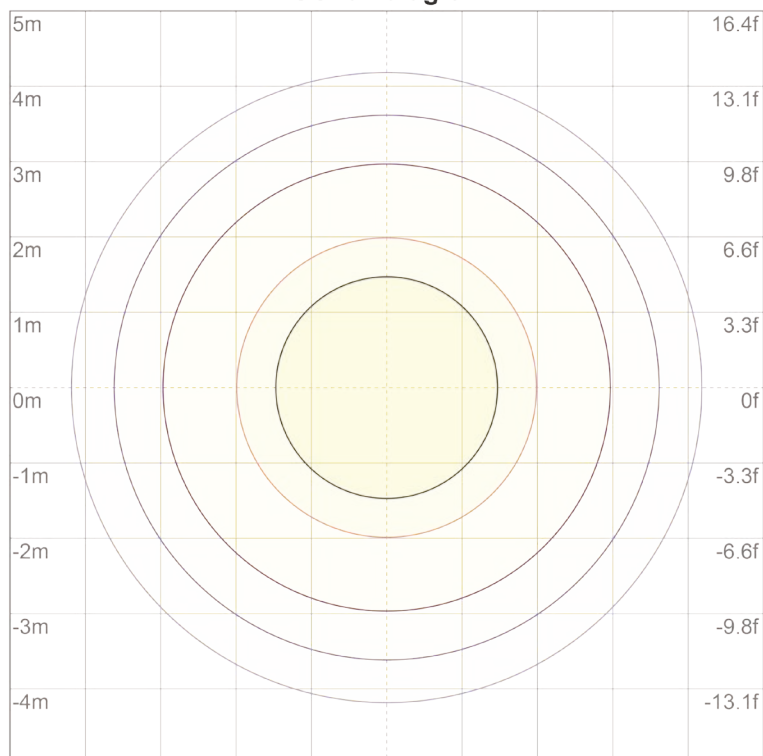
10%	1581 cd
20%	3162 cd
30%	4742 cd
40%	6323 cd
50%	7904 cd
60%	9485 cd
70%	11065 cd
80%	12646 cd
90%	14227 cd

Conditions:

Number of c-planes: 72

Candela at center: 15808 cd

ISO lux diagram



3%	4.74 lx
5%	7.90 lx
10%	15.8 lx
30%	47.4 lx
50%	79.0 lx

Conditions:

Number of c-planes: 72

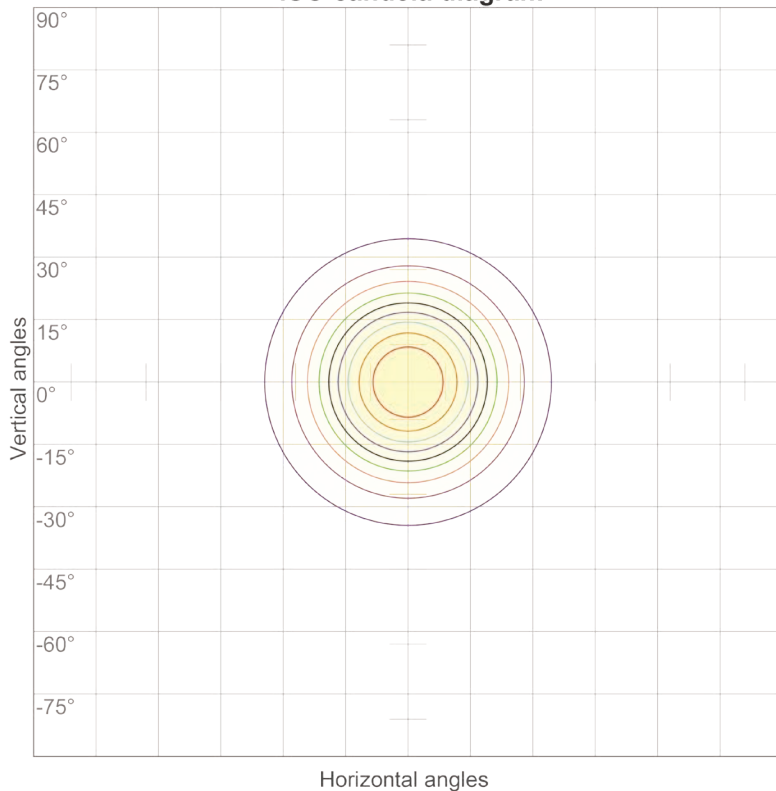
Lux at center: 158 lx

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





ISO candela diagram



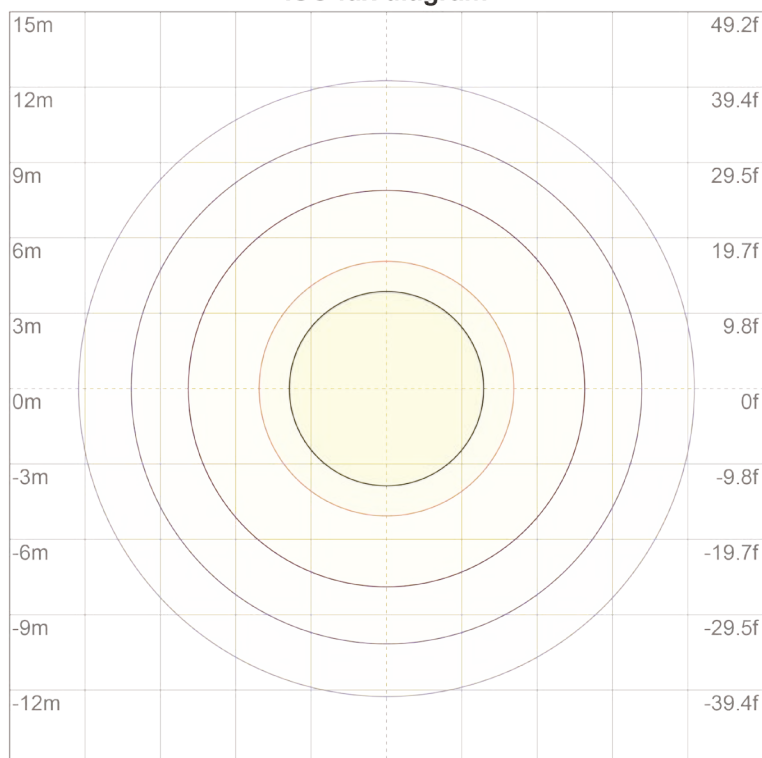
10%	311 cd
20%	621 cd
30%	932 cd
40%	1243 cd
50%	1553 cd
60%	1864 cd
70%	2175 cd
80%	2485 cd
90%	2796 cd

Conditions:

Number of c-planes: 72

Candela at center: 3107 cd

ISO lux diagram



3%	0.932 lx
5%	1.55 lx
10%	3.11 lx
30%	9.32 lx
50%	15.5 lx

Conditions:

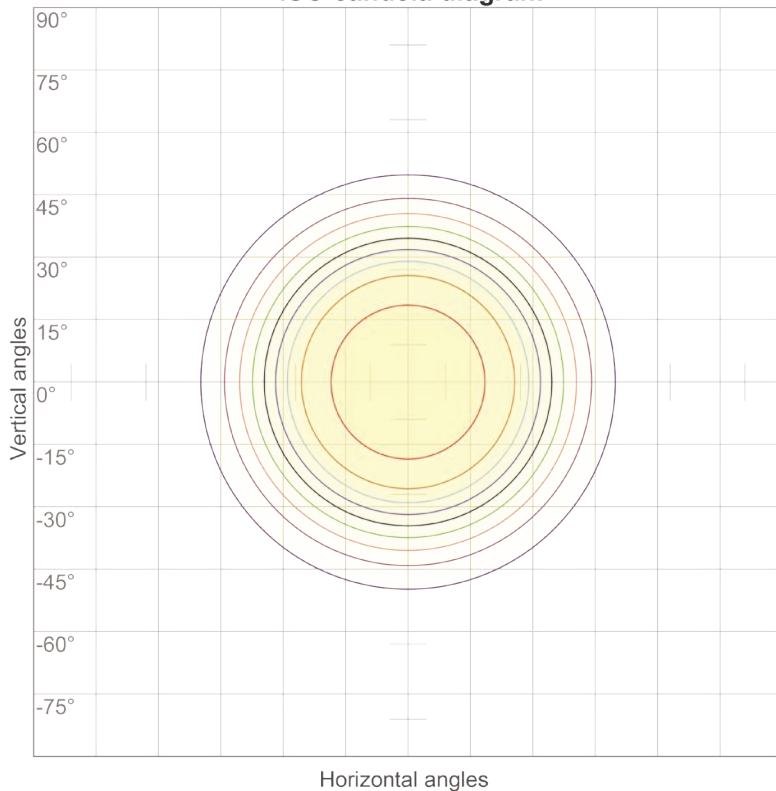
Number of c-planes: 72

Lux at center: 31.1 lx

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



ISO candela diagram



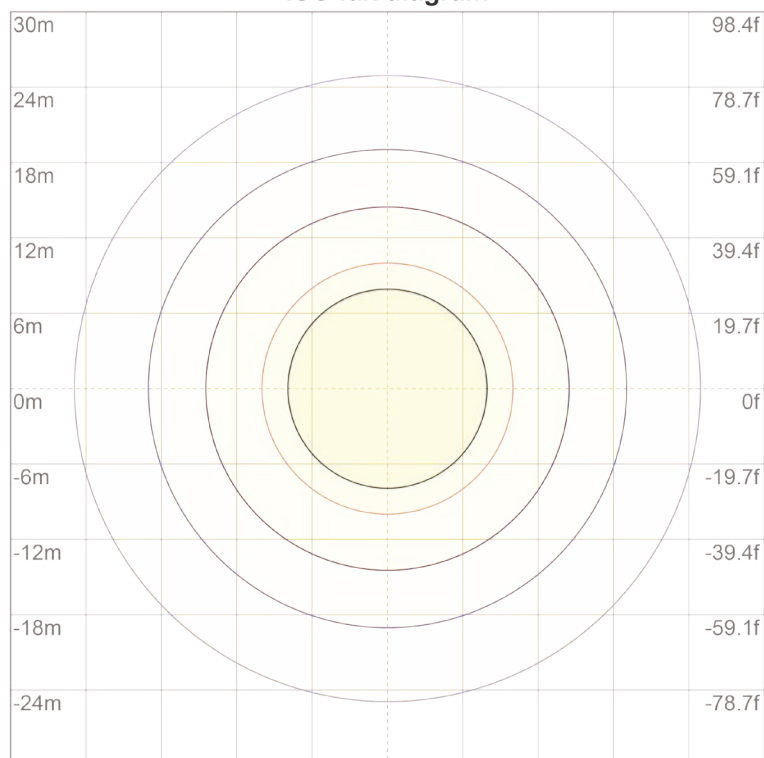
10%	127 cd
20%	255 cd
30%	382 cd
40%	509 cd
50%	637 cd
60%	764 cd
70%	891 cd
80%	1019 cd
90%	1146 cd

Conditions:

Number of c-planes: 72

Candela at center: 1274 cd

ISO lux diagram



3%	0.382 lx
5%	0.637 lx
10%	1.27 lx
30%	3.82 lx
50%	6.37 lx

Conditions:

Number of c-planes: 72

Lux at center: 12.7 lx

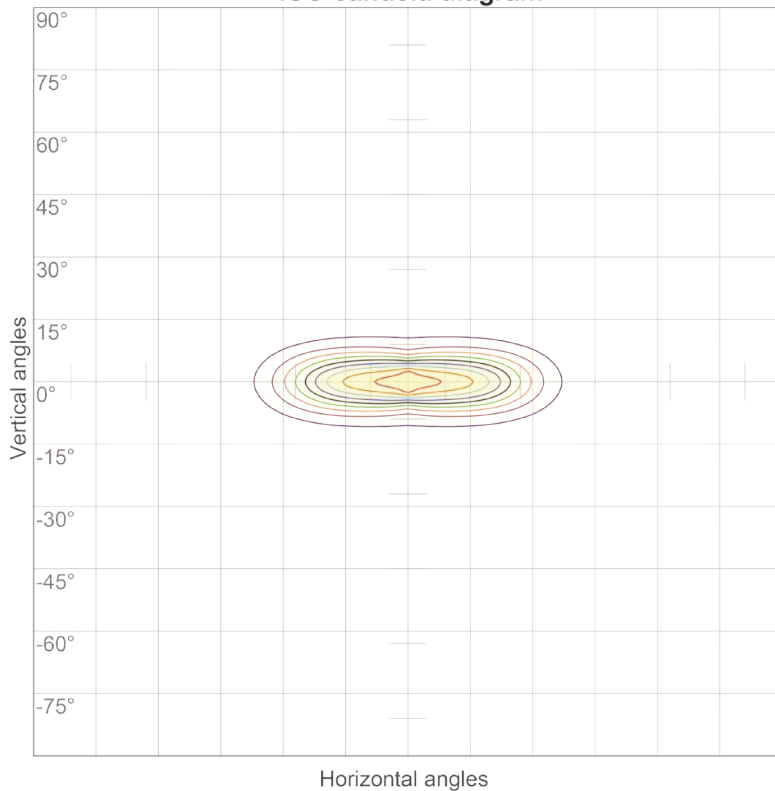
*Lux distribution on a surface  
when lamp is mounted at 10  
meters from the surface.*

## LuxEOS Flood 9 - RGBW (2700K)

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



ISO candela diagram



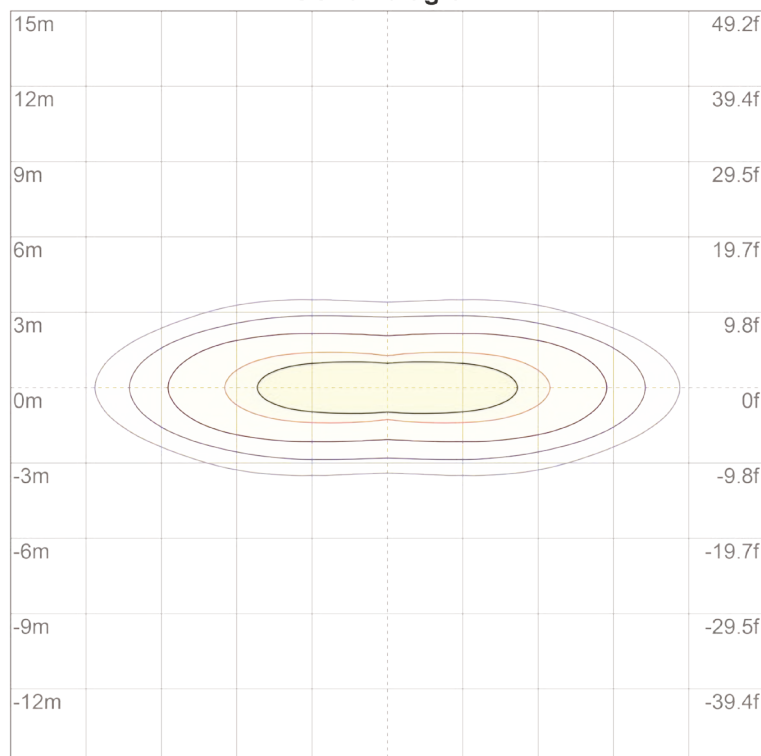
10%	769 cd
20%	1539 cd
30%	2308 cd
40%	3077 cd
50%	3847 cd
60%	4616 cd
70%	5385 cd
80%	6155 cd
90%	6924 cd

Conditions:

Number of c-planes: 72

Candela at center: 7693 cd

ISO lux diagram



3%	2.31 lx
5%	3.85 lx
10%	7.69 lx
30%	23.1 lx
50%	38.5 lx

Conditions:

Number of c-planes: 72

Lux at center: 76.9 lx

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

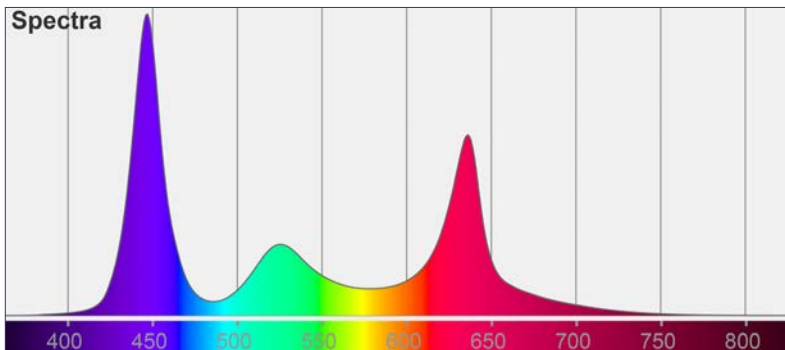
# PULSAR

## LuxEOS Flood 9 - RGBW (2700K)

Colormetrics **RGBW**



### PHOTOMETRIC DATA



Total Lumen Output (Native) : 2060 lm

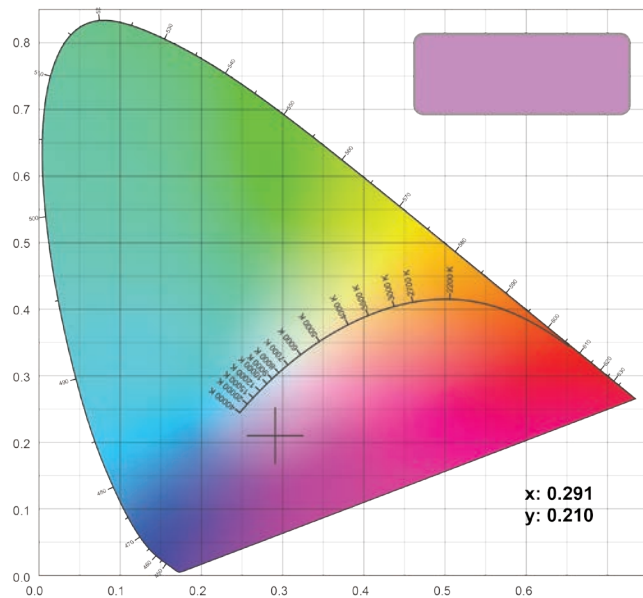
Efficacy : 34.3 lm/W

Voltage : 240V

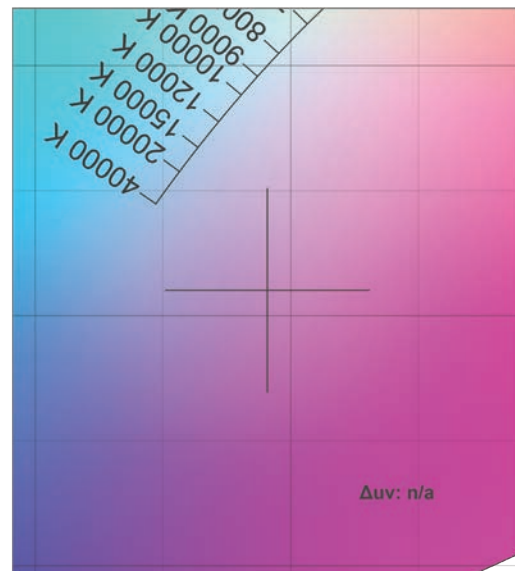
Supply Power : 60W

Supply Power Factor : 0.97

### CIE 1931



### CIE 1931 Zoom



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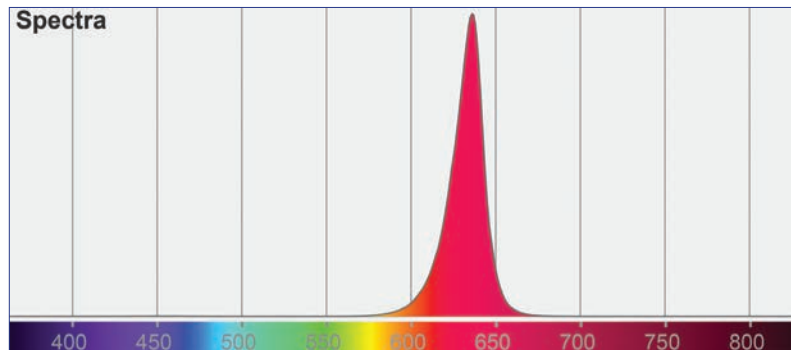
# PULSAR

LuxEOS Flood 9 - RGBW (2700K)

Colormetrics **RED**

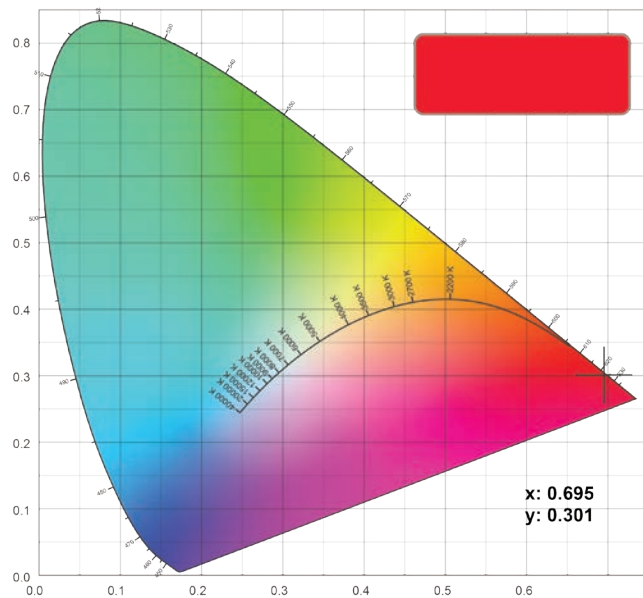


PHOTOMETRIC DATA

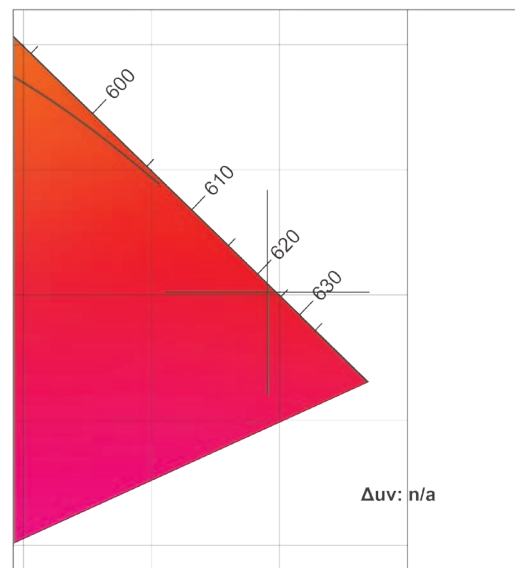


Red Lumen Output : 527 lm

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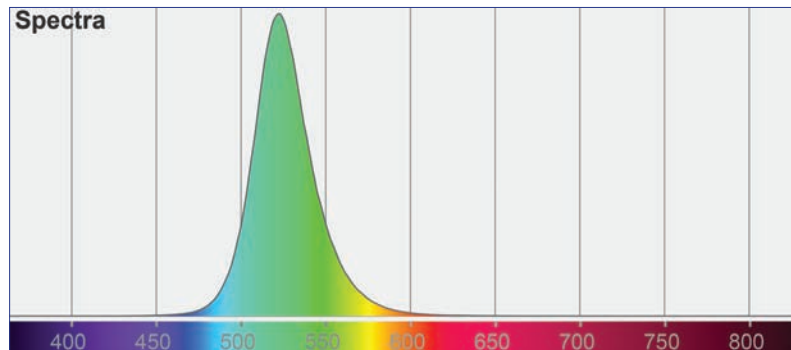
# PULSAR

LuxEOS Flood 9 - RGBW (2700K)

Colormetrics **GREEN**

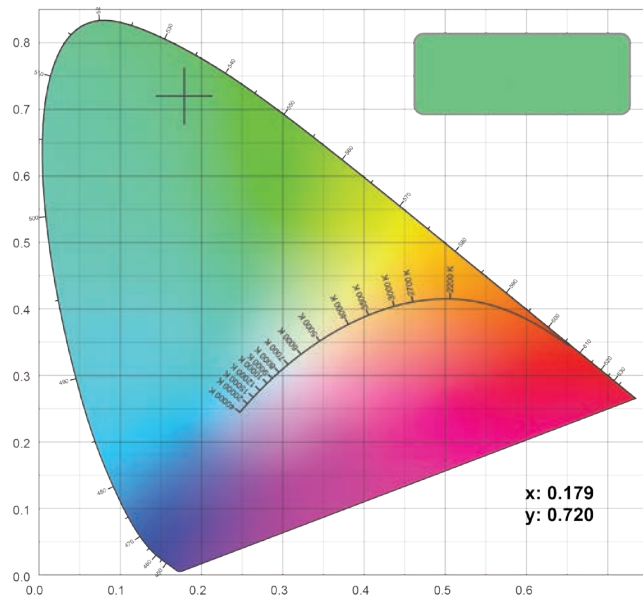


## PHOTOMETRIC DATA

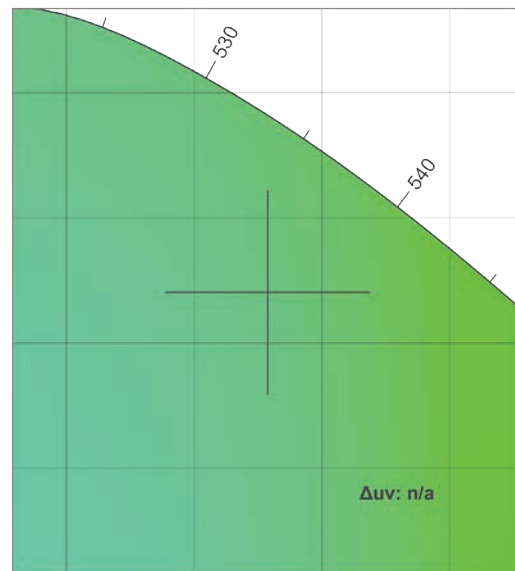


Green Lumen Output : 809 lm

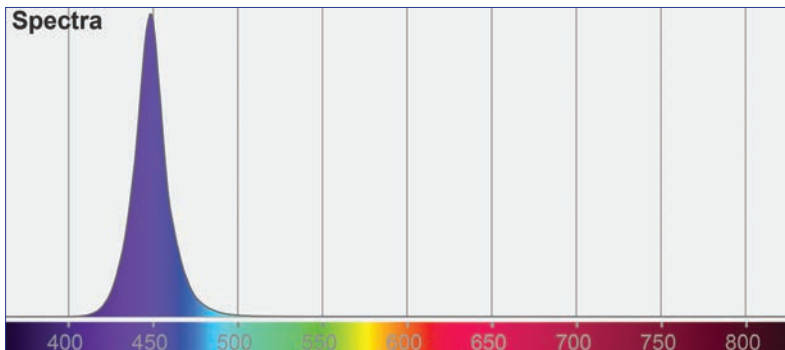
CIE 1931



CIE 1931 Zoom

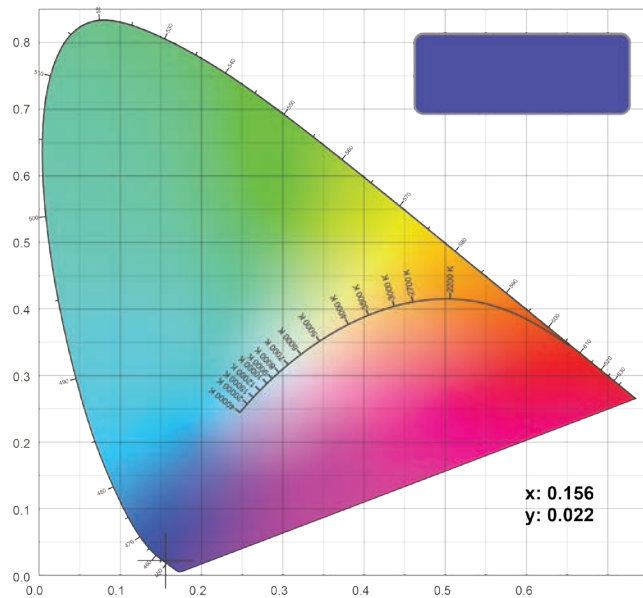


## LuxEOS Flood 9 - RGBW (2700K) Colormetrics **BLUE**

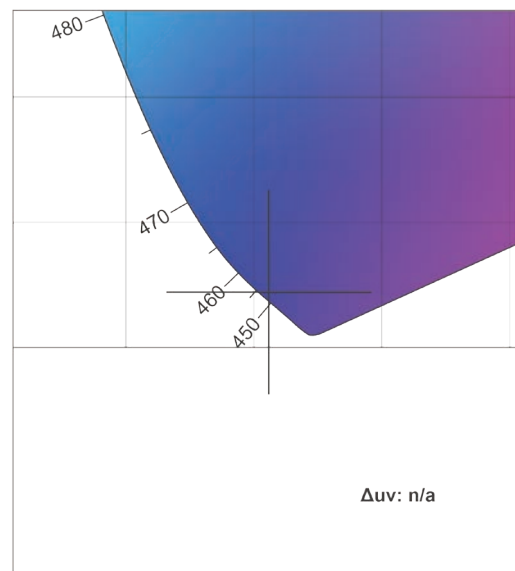


Blue Lumen Output : 178 lm

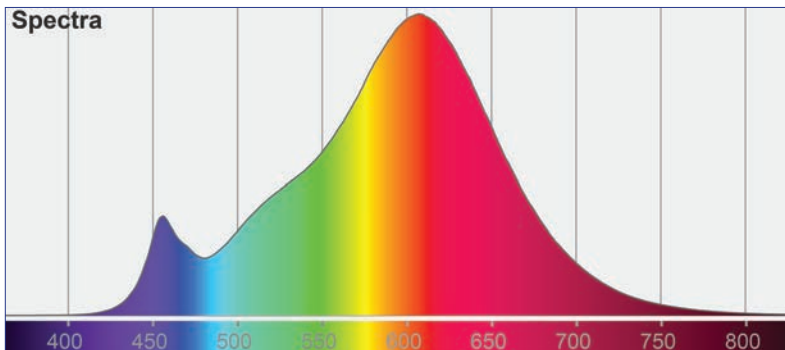
CIE 1931



CIE 1931 Zoom

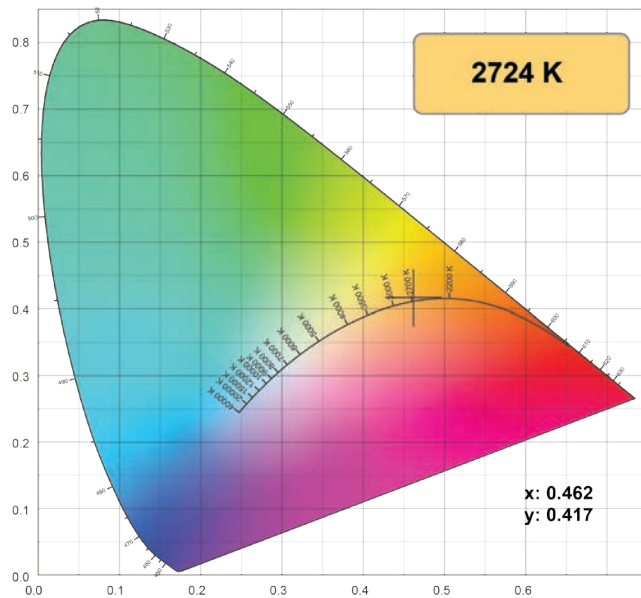


## LuxEOS Flood 9 - RGBW (2700K) Colormetrics **White 2700K**

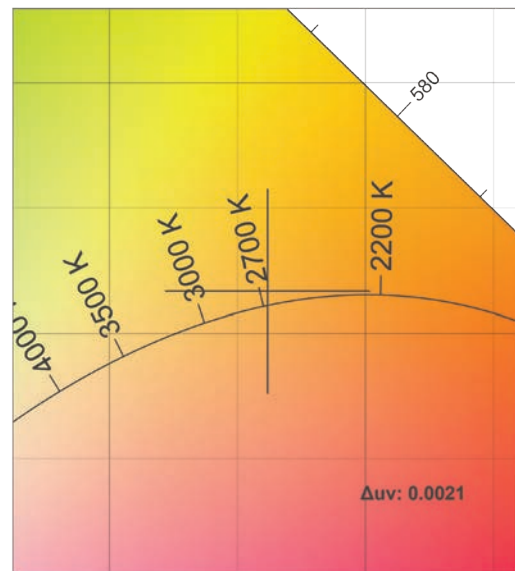


White 2700K Lumen Output : 1146 lm  
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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