

## LuxEOS Flood 18 TUNABLE WHITE

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 18 - TW (1700-5700K)  
10° 20° 40° 80° 10x60° 60x10°

Tested By  
DW Windsor Group Laboratory  
Hoddesdon  
UK

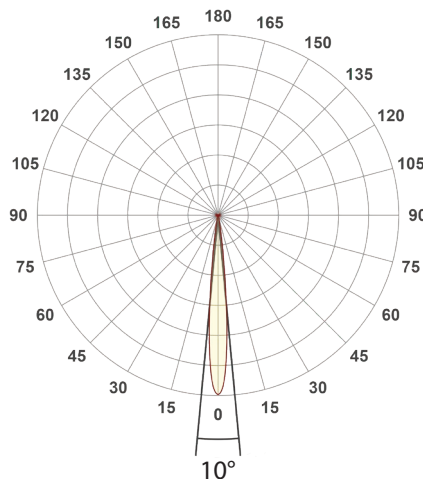
Date  
Nov 2020

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

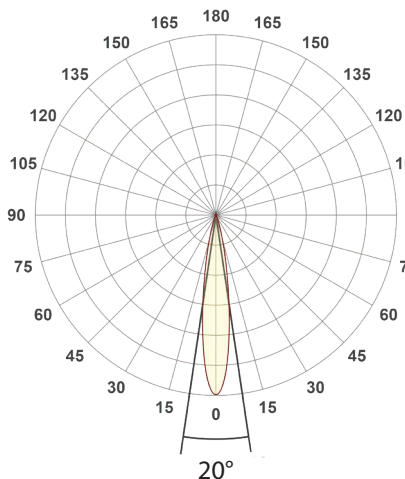
Weight  
12 kgs (26.46lbs)

### Polar Distribution

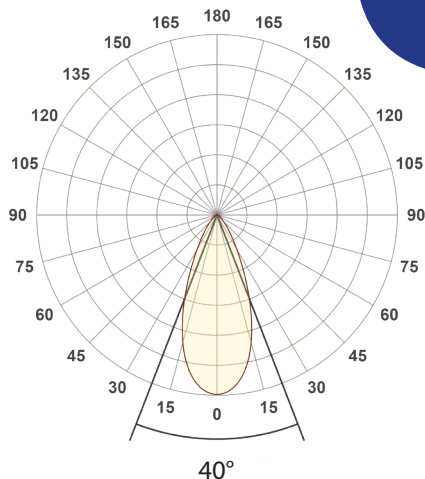
10° Conical Beam (Native)



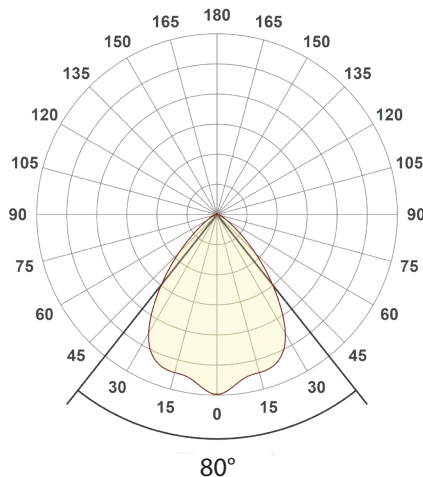
20° Conical Beam (With HBS)



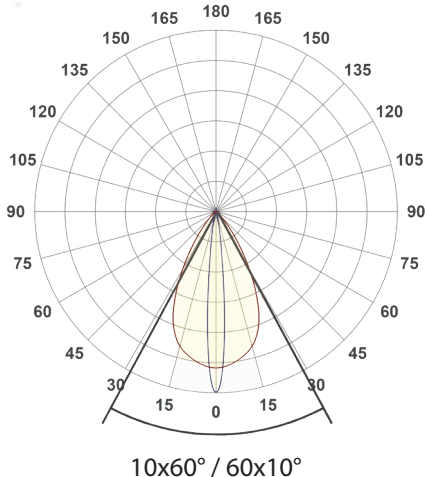
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)

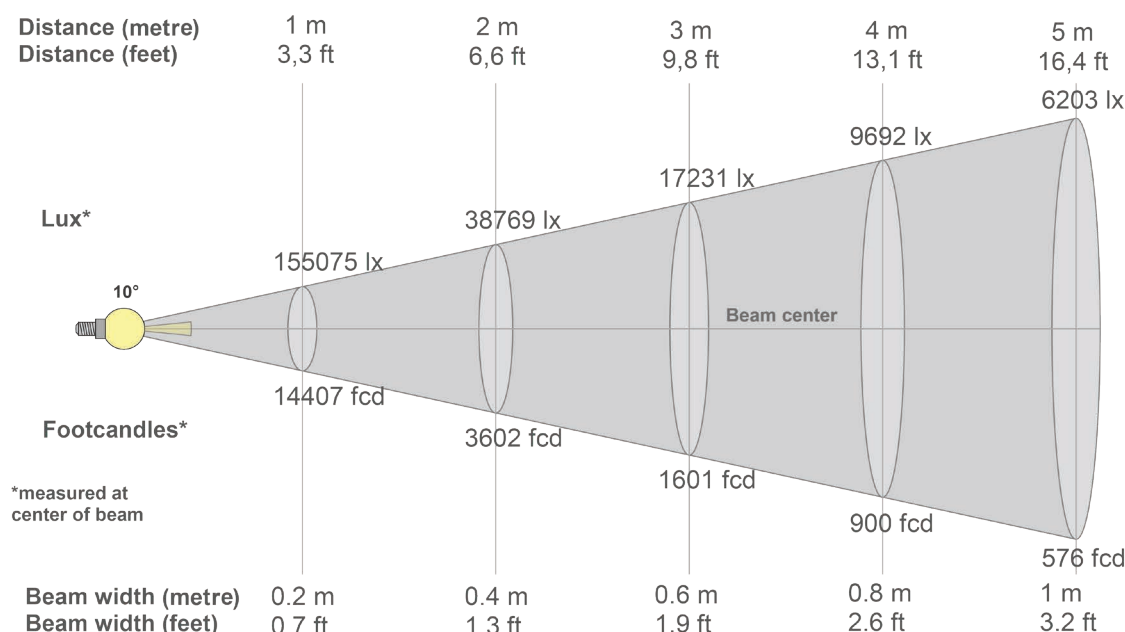


10x60° / 60x10° Elliptical Beam (With HBS)



## LuxEOS Flood 18 - 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
155075lx	38769lx	17231lx	9692lx	6203lx	4308lx	3165lx	2423lx	1915lx	1551lx	1282lx	1077lx	918lx	791lx	689lx	606lx	537lx	479lx	430lx	388lx
14406.9fc	3601.7fc	1600.8fc	900.4fc	576.3fc	400.2fc	294fc	225.1fc	177.9fc	144.1fc	119.1fc	100fc	85.2fc	73.5fc	64fc	56.3fc	49.9fc	44.5fc	39.9fc	36fc

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°
155K	153K	147K	136K	118K	94K	68K	46K	30K	19K	12K	8K	6K	5K	4K	4K	3K	2K	2K	2K
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°
155K	153K	147K	136K	118K	94K	68K	46K	30K	19K	12K	8K	6K	5K	4K	4K	3K	2K	2K	2K
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°
155K	153K	147K	136K	118K	94K	68K	46K	30K	19K	12K	8K	6K	5K	4K	4K	3K	2K	2K	2K
100%	99%	95%	88%	76%	61%	44%	30%	19%	12%	8%	5%	4%	3%	3%	2%	2%	2%	1%	1%

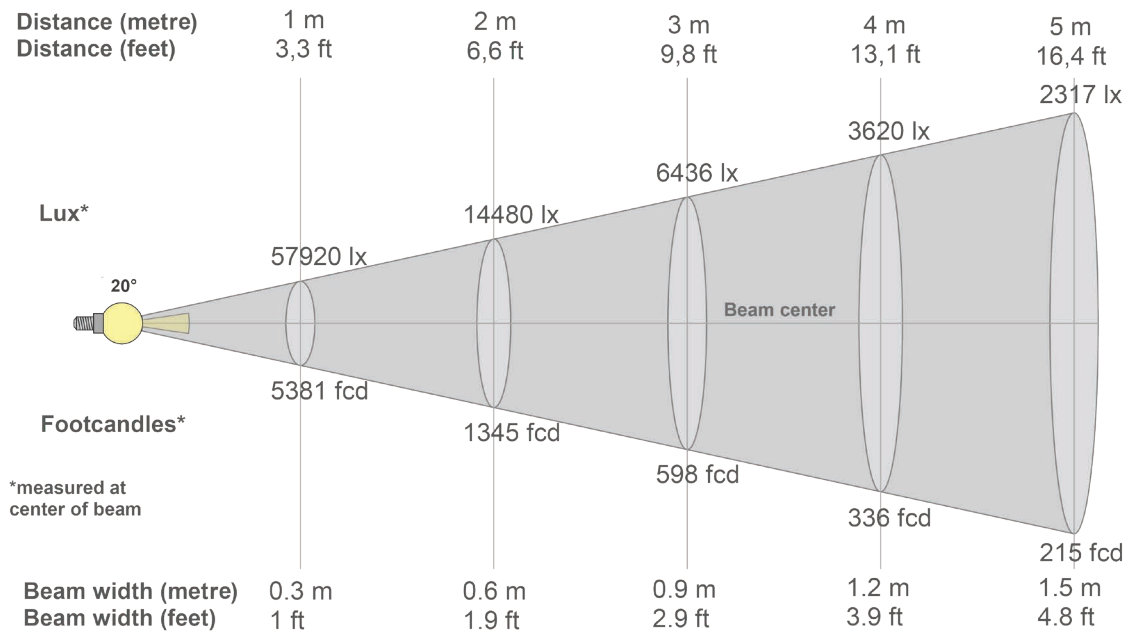
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
155K	153K	147K	136K	118K	94K	68K	46K	30K	19K	12K	8K	6K	5K	4K	4K	3K	2K	2K	2K
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 18 - 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
57920lx	14480lx	6436lx	3620lx	2317lx	1609lx	1182lx	905lx	715lx	579lx	479lx	402lx	343lx	296lx	257lx	226lx	200lx	179lx	160lx	145lx
5381fc	1345.2fc	597.9fc	336.3fc	215.2fc	149.5fc	109.8fc	84.1fc	66.4fc	53.8fc	44.5fc	37.4fc	31.8fc	27.5fc	23.9fc	21fc	18.6fc	16.6fc	14.9fc	13.5fc

#### 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°
57.9K	57.4K	55.7K	52.9K	49.3K	45.0K	40.3K	35.5K	30.7K	26.2K	22.0K	18.3K	15.0K	12.3K	9.9K	8.0K	6.5K	5.2K	4.3K	3.5K
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°
57.9K	57.4K	55.7K	52.9K	49.3K	45.0K	40.3K	35.5K	30.7K	26.2K	22.0K	18.3K	15.0K	12.3K	9.9K	8.0K	6.5K	5.2K	4.3K	3.5K
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°
57.9K	57.4K	55.7K	52.9K	49.3K	45.0K	40.3K	35.5K	30.7K	26.2K	22.0K	18.3K	15.0K	12.3K	9.9K	8.0K	6.5K	5.2K	4.3K	3.5K
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°
57.9K	57.4K	55.7K	52.9K	49.3K	45.0K	40.3K	35.5K	30.7K	26.2K	22.0K	18.3K	15.0K	12.3K	9.9K	8.0K	6.5K	5.2K	4.3K	3.5K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

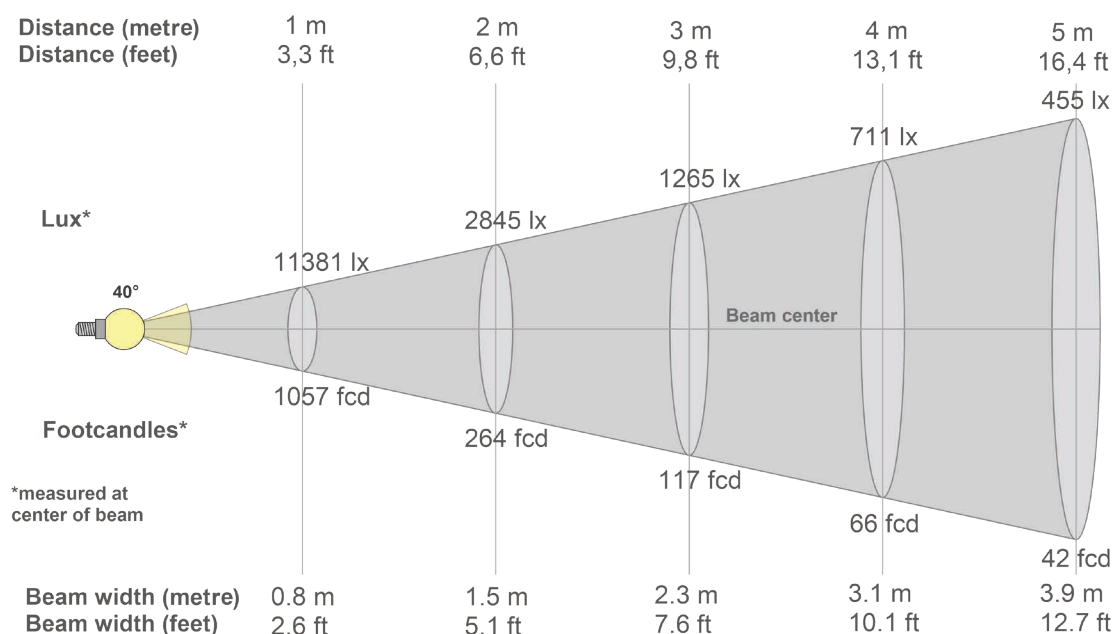
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

#### PULSAR

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## LuxEOS Flood 18 - 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
11381lx	2845lx	1265lx	711lx	455lx	316lx	232lx	178lx	141lx	114lx	94lx	79lx	67lx	58lx	51lx	44lx	39lx	35lx	32lx	28lx
1057.3fc	264.3fc	117.5fc	66.1fc	42.3fc	29.4fc	21.6fc	16.5fc	13.1fc	10.6fc	8.7fc	7.3fc	6.3fc	5.4fc	4.7fc	4.1fc	3.7fc	3.3fc	2.9fc	2.6fc

### 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°
11.4K	11.3K	11.2K	10.9K	10.6K	10.1K	9.5K	8.8K	8.0K	7.1K	6.2K	5.3K	4.5K	3.7K	3.1K	2.5K	2.1K	1.7K	1.4K	1.2K
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°
11.4K	11.3K	11.2K	10.9K	10.6K	10.1K	9.5K	8.8K	8.0K	7.1K	6.2K	5.3K	4.5K	3.7K	3.1K	2.5K	2.1K	1.7K	1.4K	1.2K
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°
11.4K	11.3K	11.2K	10.9K	10.6K	10.1K	9.5K	8.8K	8.0K	7.1K	6.2K	5.3K	4.5K	3.7K	3.1K	2.5K	2.1K	1.7K	1.4K	1.2K
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

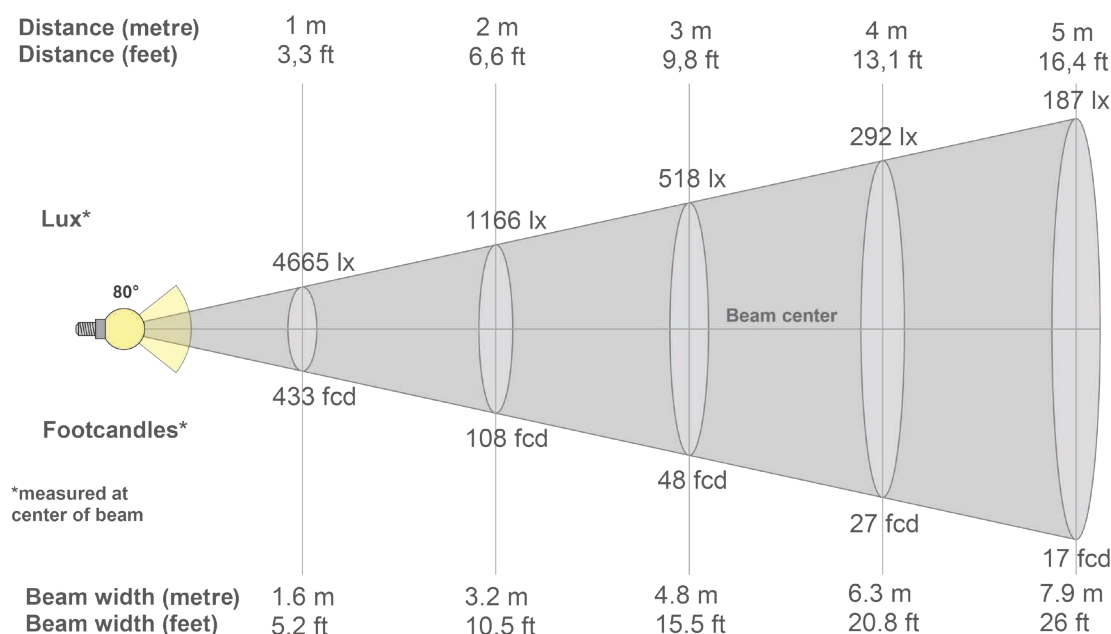
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.4K	11.3K	11.2K	10.9K	10.6K	10.1K	9.5K	8.8K	8.0K	7.1K	6.2K	5.3K	4.5K	3.7K	3.1K	2.5K	2.1K	1.7K	1.4K	1.2K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

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 - 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
4665lx	1166lx	518lx	292lx	187lx	130lx	95lx	73lx	58lx	47lx	39lx	32lx	28lx	24lx	21lx	18lx	16lx	14lx	13lx	12lx
433.4fc	108.3fc	48.2fc	27.1fc	17.3fc	12fc	8.8fc	6.8fc	5.4fc	4.3fc	3.6fc	3fc	2.6fc	2.2fc	1.9fc	1.7fc	1.5fc	1.3fc	1.2fc	1.1fc

### 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°
4665	4511	4298	4253	4208	4008	3558	2855	2092	1397	842	487	291	184	119	72	36	10	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°
4665	4511	4298	4253	4208	4008	3558	2855	2092	1397	842	487	291	184	119	72	36	10	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°
4665	4511	4298	4253	4208	4008	3558	2855	2092	1397	842	487	291	184	119	72	36	10	2	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

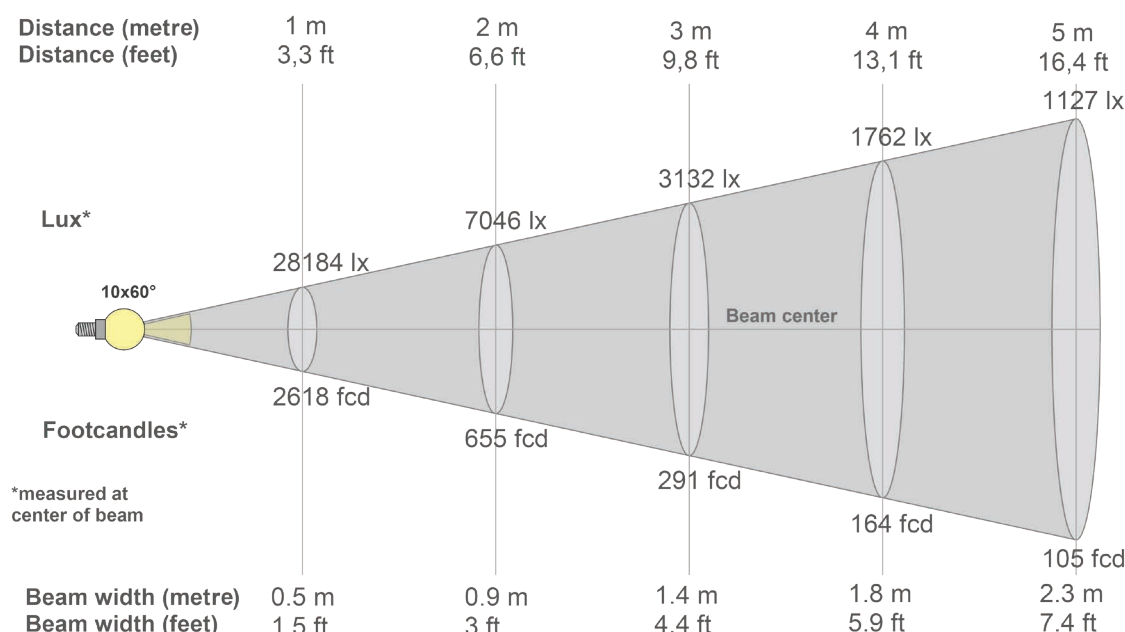
### Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
4665	4511	4298	4253	4208	4008	3558	2855	2092	1397	842	487	291	184	119	72	36	10	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 - 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
28184lx	7046lx	3132lx	1762lx	1127lx	783lx	575lx	440lx	348lx	282lx	233lx	196lx	167lx	144lx	125lx	110lx	98lx	87lx	78lx	70lx
2618.4fc	654.6fc	290.9fc	163.7fc	104.7fc	72.7fc	53.4fc	40.9fc	32.3fc	26.2fc	21.6fc	18.2fc	15.5fc	13.4fc	11.6fc	10.2fc	9.1fc	8.1fc	7.3fc	6.5fc

### 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°
28.2K	26.4K	26.2K	25.9K	25.5K	25.1K	24.6K	24.0K	23.2K	22.2K	21.0K	19.4K	17.6K	15.6K	13.4K	11.3K	9.3K	7.5K	5.8K	4.4K
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°
28.2K	27.9K	20.6K	12.4K	6.7K	3.9K	2.7K	1.9K	1.3K	1.0K	0.7K	0.6K	0.4K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	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°
28.2K	26.4K	26.2K	25.9K	25.5K	25.1K	24.6K	24.0K	23.2K	22.2K	21.0K	19.4K	17.6K	15.6K	13.4K	11.3K	9.3K	7.5K	5.8K	4.4K
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°
28.2K	27.9K	20.6K	12.4K	6.7K	3.9K	2.7K	1.9K	1.3K	1.0K	0.7K	0.6K	0.4K	0.4K	0.3K	0.3K	0.2K	0.2K	0.2K	0.1K
100%	99%	73%	44%	24%	14%	9%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%

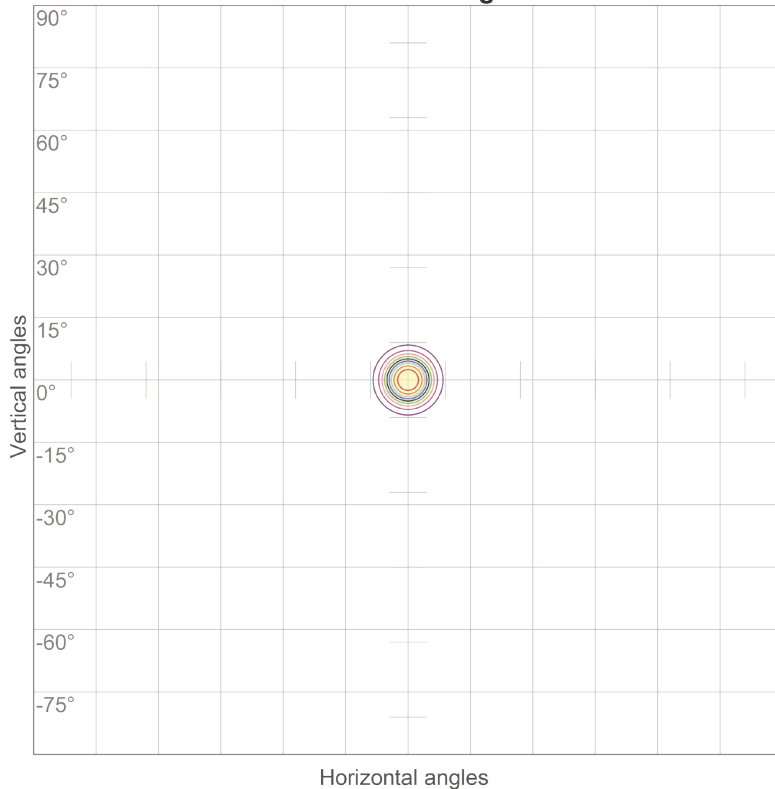
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.5°	45.7°	66.1°	97.5%	94.0%

### PULSAR

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ISO candela diagram



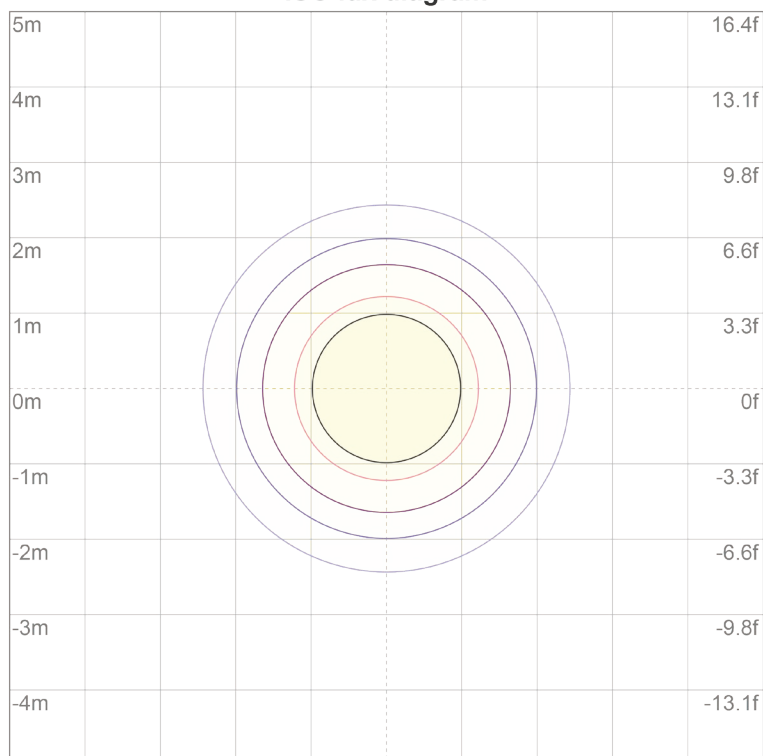
10%	15507 cd
20%	31015 cd
30%	46522 cd
40%	62030 cd
50%	77537 cd
60%	93045 cd
70%	108552 cd
80%	124060 cd
90%	139567 cd

Conditions:

Number of c-planes: 72

Candela at center: 155075 cd

ISO lux diagram



3%	46.5 lx
5%	77.5 lx
10%	155 lx
30%	465 lx
50%	775 lx

Conditions:

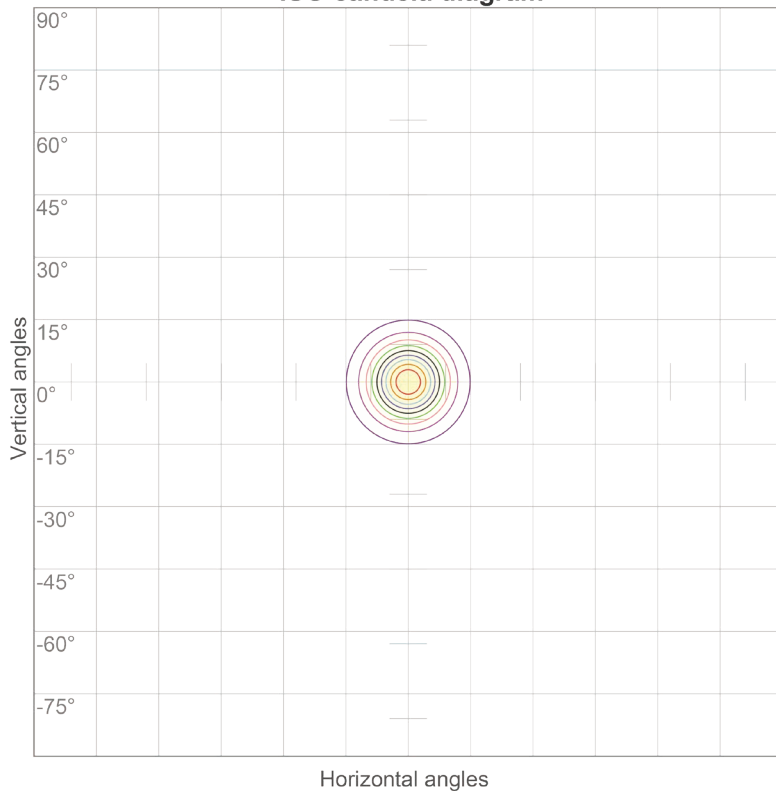
Number of c-planes: 72

Lux at center: 1551 lx

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



ISO candela diagram



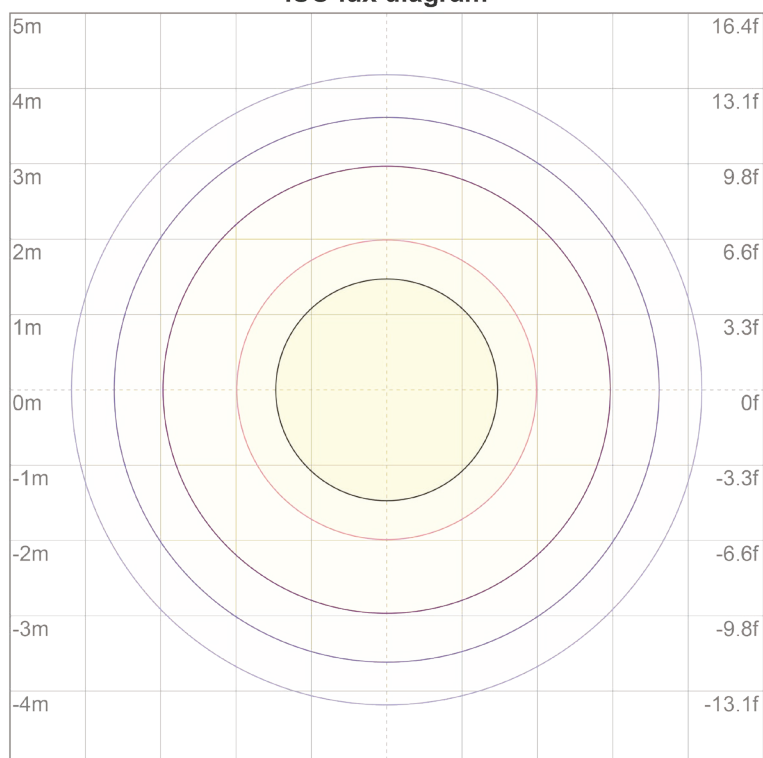
10%	5792 cd
20%	11584 cd
30%	17376 cd
40%	23168 cd
50%	28960 cd
60%	34752 cd
70%	40544 cd
80%	46336 cd
90%	52128 cd

Conditions:

Number of c-planes: 72

Candela at center: 57920 cd

ISO lux diagram



3%	17.4 lx
5%	29.0 lx
10%	57.9 lx
30%	174 lx
50%	290 lx

Conditions:

Number of c-planes: 72

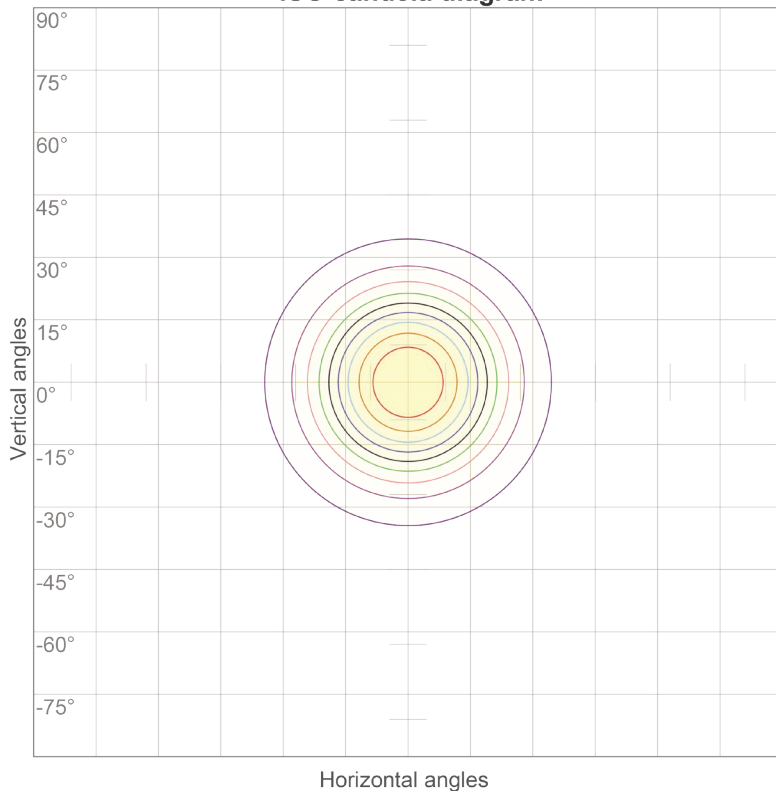
Lux at center: 579 lx

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





ISO candela diagram



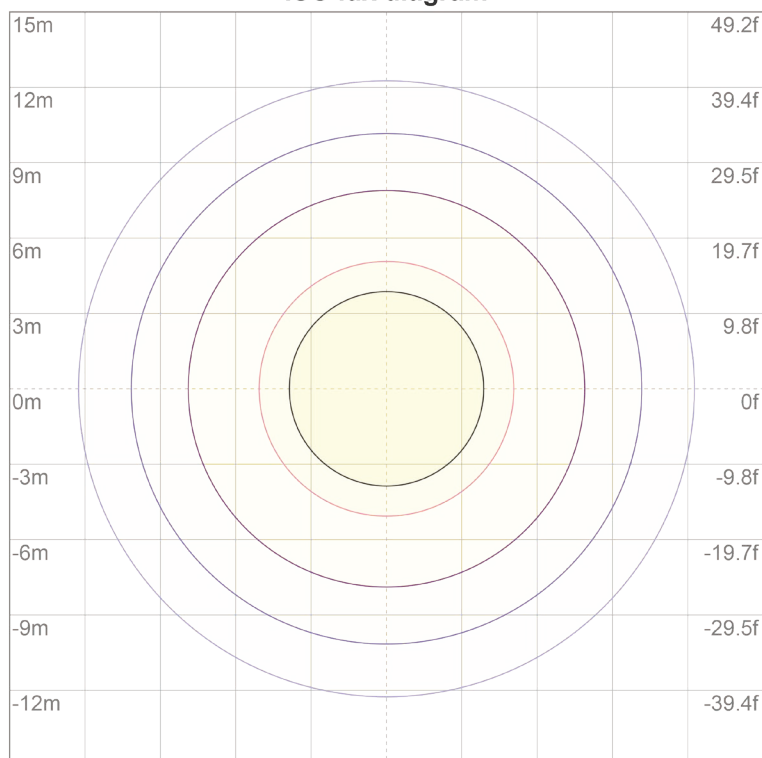
10%	1138 cd
20%	2276 cd
30%	3414 cd
40%	4552 cd
50%	5691 cd
60%	6829 cd
70%	7967 cd
80%	9105 cd
90%	10243 cd

Conditions:

Number of c-planes: 72

Candela at center: 11381 cd

ISO lux diagram



3%	3.41 lx
5%	5.69 lx
10%	11.4 lx
30%	34.1 lx
50%	56.9 lx

Conditions:

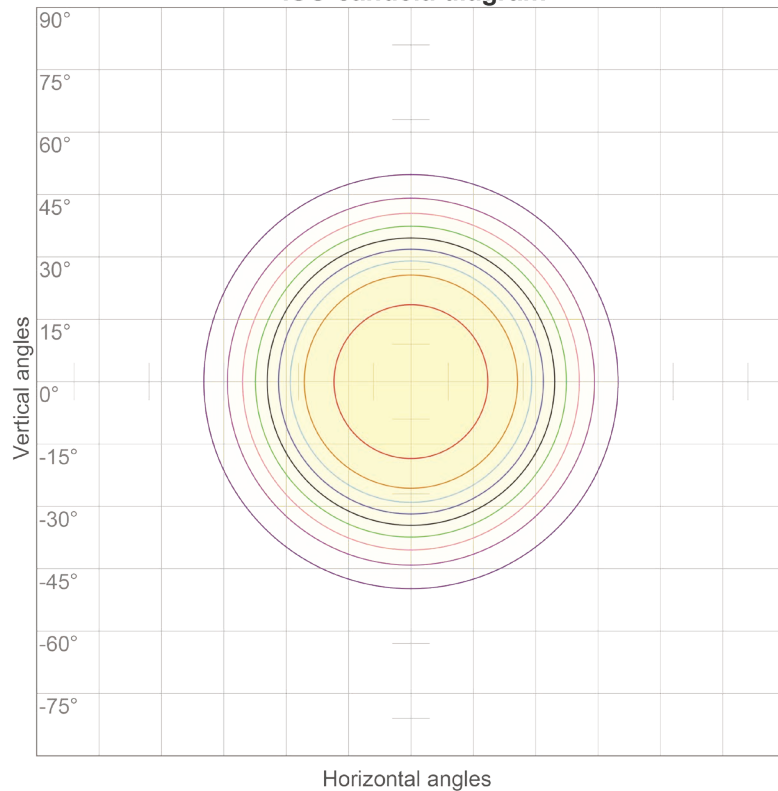
Number of c-planes: 72

Lux at center: 114 lx

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



ISO candela diagram



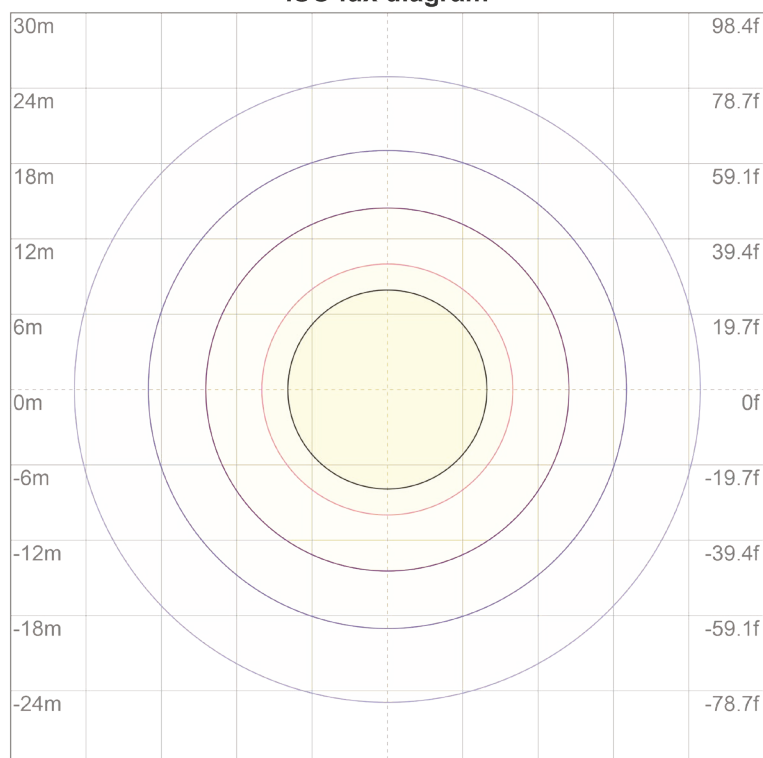
10%	466 cd
20%	933 cd
30%	1399 cd
40%	1866 cd
50%	2332 cd
60%	2799 cd
70%	3265 cd
80%	3732 cd
90%	4198 cd

Conditions:

Number of c-planes: 72

Candela at center: 4665 cd

ISO lux diagram



3%	1.40 lx
5%	2.33 lx
10%	4.66 lx
30%	14.0 lx
50%	23.3 lx

Conditions:

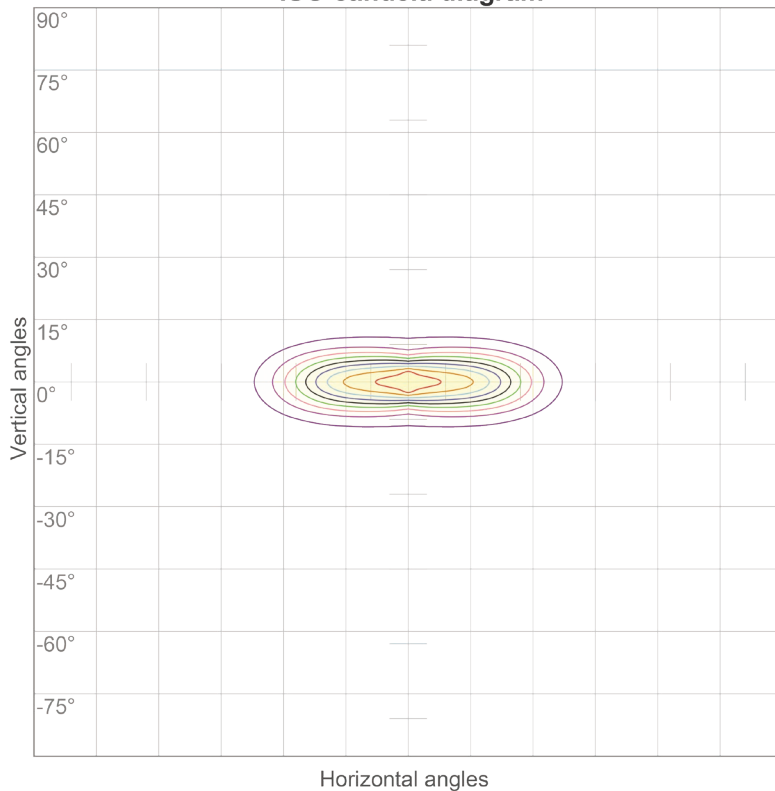
Number of c-planes: 72

Lux at center: 46.6 lx

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



#### ISO candela diagram



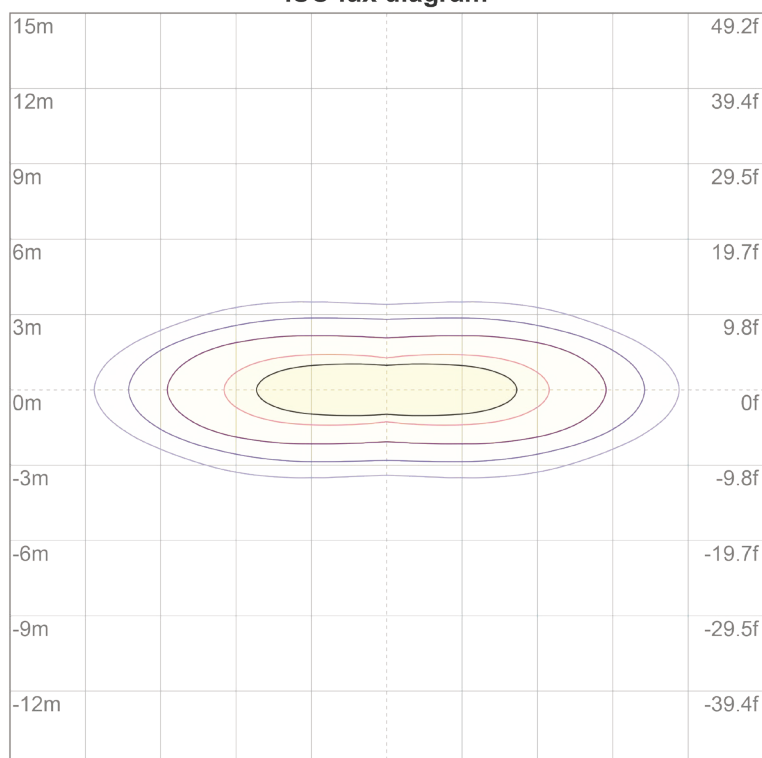
10%	2818 cd
20%	5637 cd
30%	8455 cd
40%	11274 cd
50%	14092 cd
60%	16911 cd
70%	19729 cd
80%	22547 cd
90%	25366 cd

#### Conditions:

Number of c-planes: 72

Candela at center: 28184 cd

#### ISO lux diagram



3%	8.46 lx
5%	14.1 lx
10%	28.2 lx
30%	84.6 lx
50%	141 lx

#### Conditions:

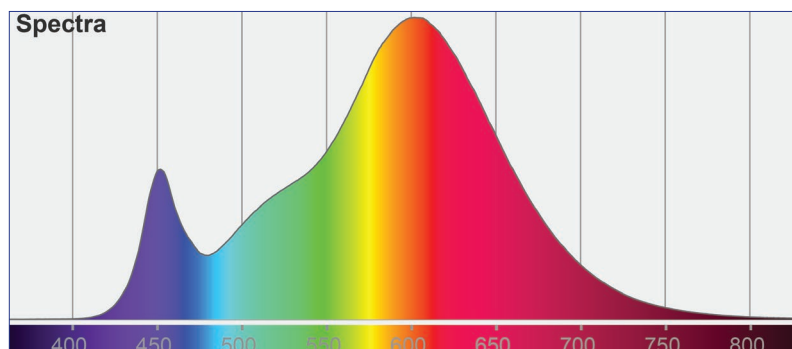
Number of c-planes: 72

Lux at center: 282 lx

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

## LuxEOS Flood 18 - TW (1700-5700K)

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



Total Lumen Output (Native) : 7546 lm

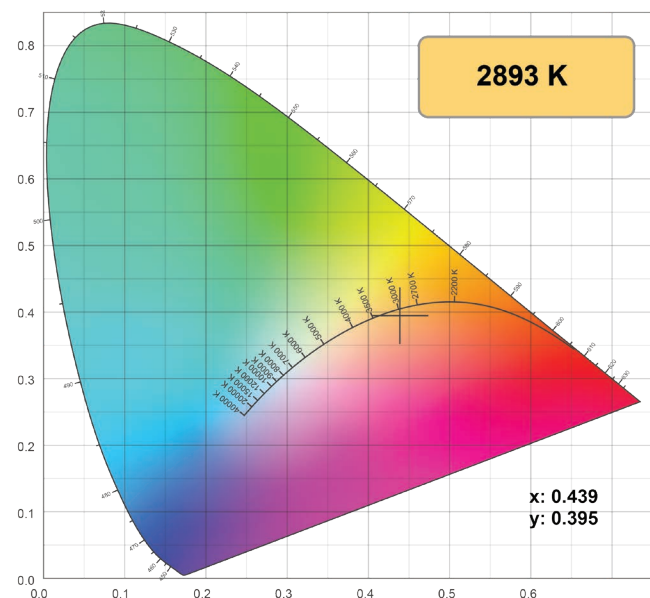
Efficacy : 63 lm/W

Voltage : 240V

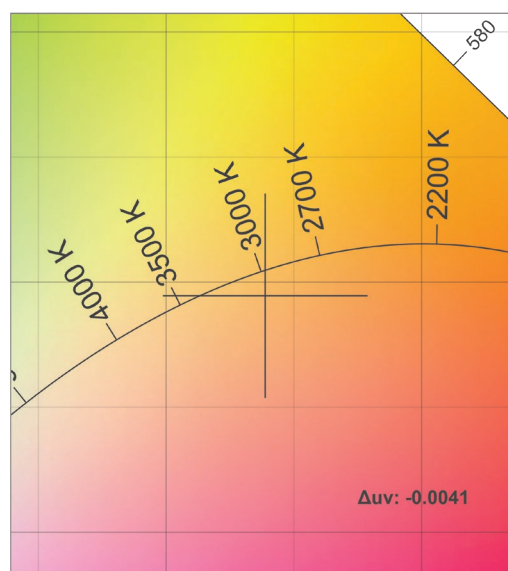
Supply Power : 120W

Supply Power Factor : 0.97

CIE 1931

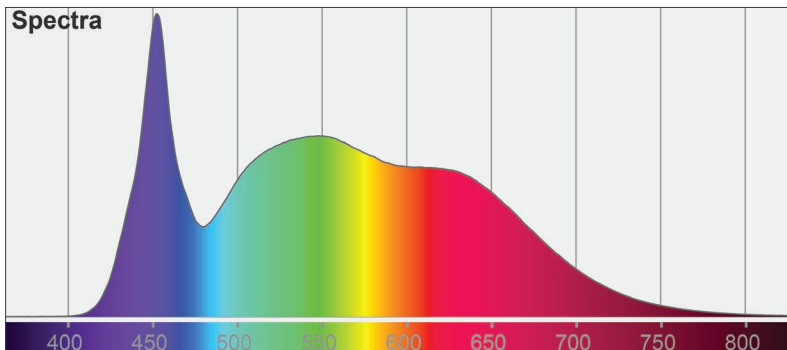


CIE 1931 Zoom



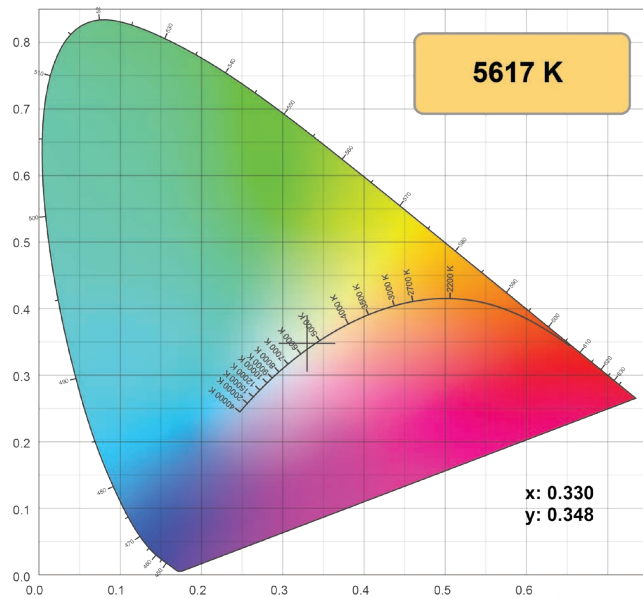


## LuxEOS Flood 18 - TW (1700-5700K) Colormetrics **5700K**

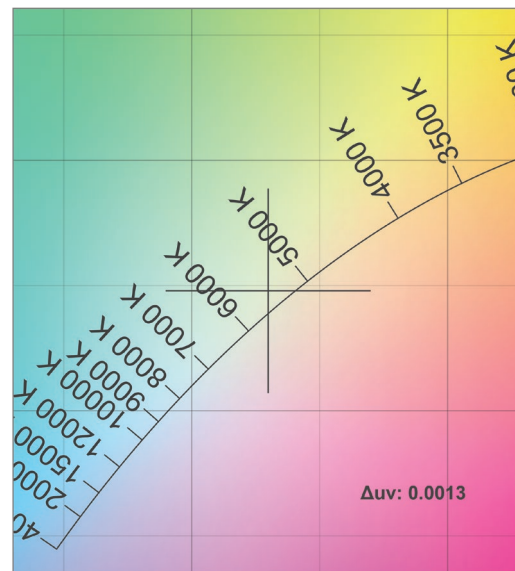


White 5700K Lumen Output : 3454 lm  
CRI: 90

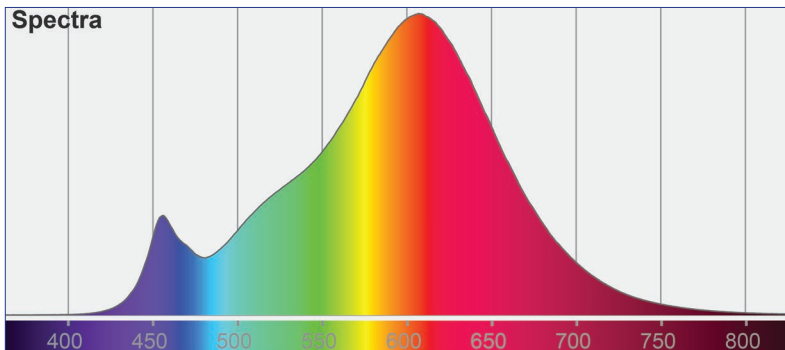
CIE 1931



CIE 1931 Zoom

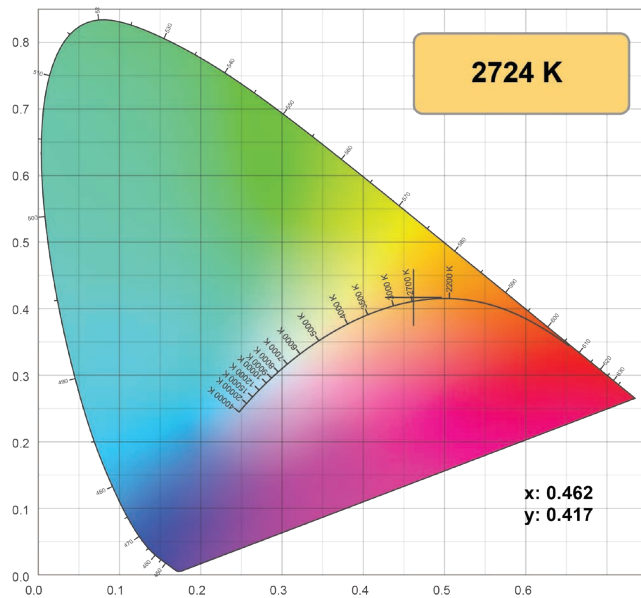


## LuxEOS Flood 18 - TW (1700-5700K) Colormetrics **2700K**

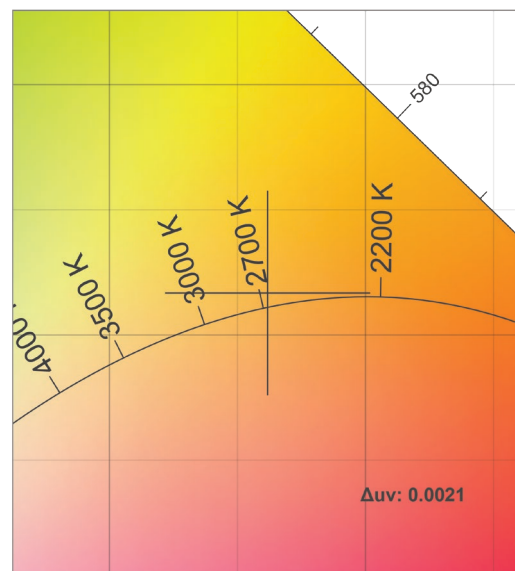


White 2700K Lumen Output : 4590 lm  
CRI: 80

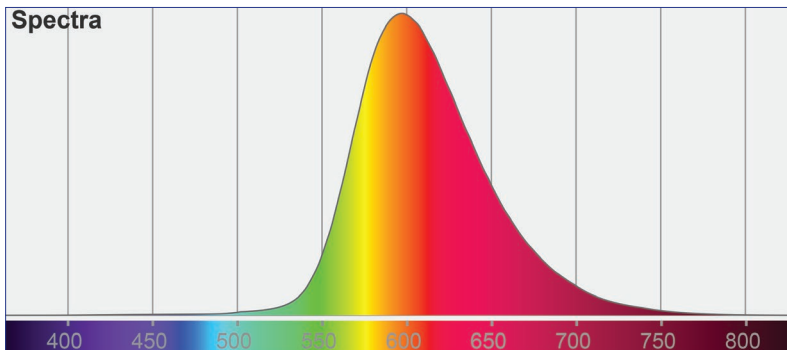
CIE 1931



CIE 1931 Zoom

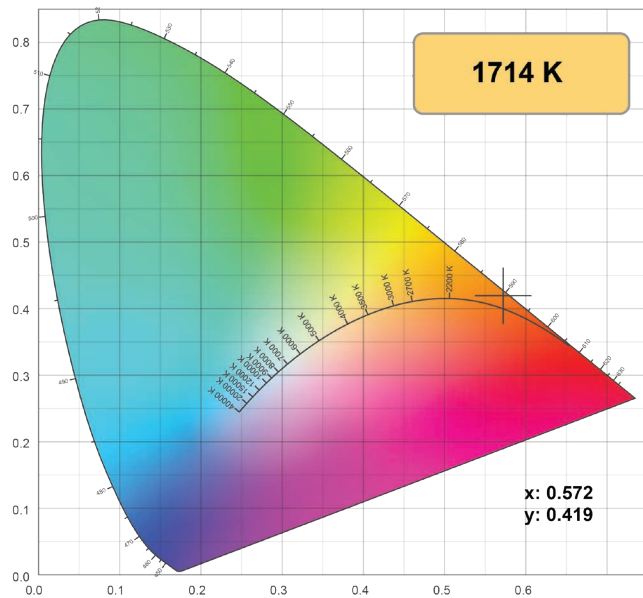


## LuxEOS Flood 18 - TW (1700-5700K) Colormetrics **1700K**

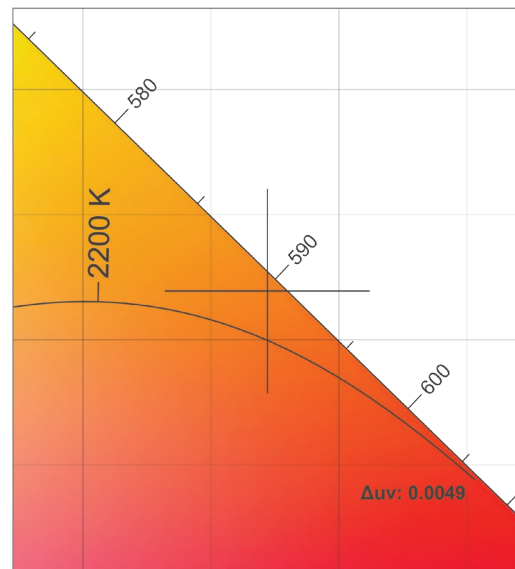


Amber 1700K Lumen Output : 2178 lm

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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