

LuxEOS Flood 36 TUNABLE WHITE

LED FLOOD FOR ARCHITECTURAL LIGHTING



LuxEOS Flood 36 - TW (1700-5700K)
10° 20° 40° 80° 10x60° 60x10°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

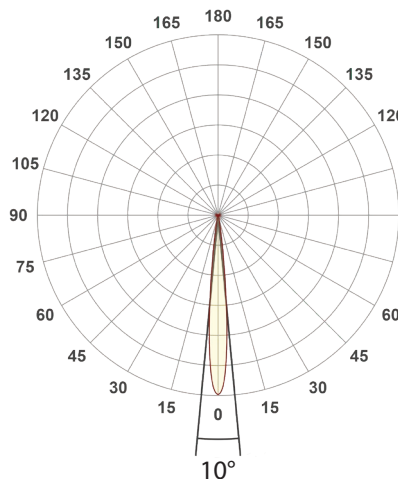
Date
Nov 2020

Dimensions
443mm (H) x 420mm (W) x 230mm (D) (including yoke)

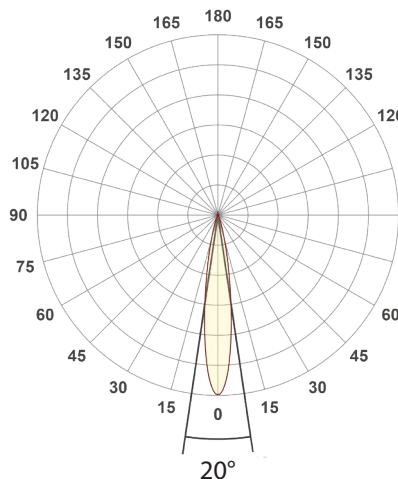
Weight
23 kgs (50.7lbs)

Polar Distribution

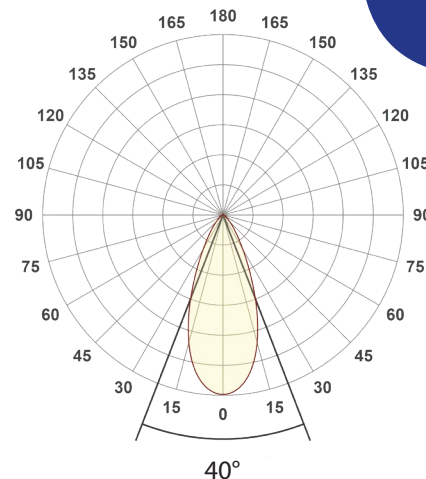
10° Conical Beam (Native)



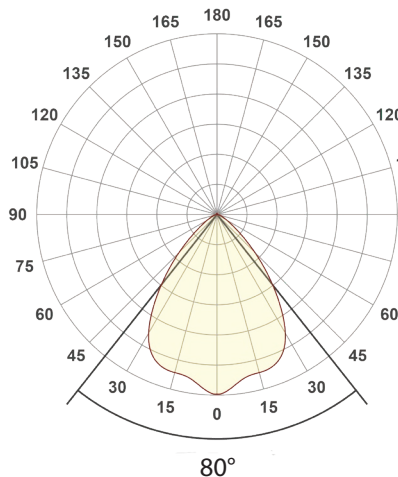
20° Conical Beam (With HBS)



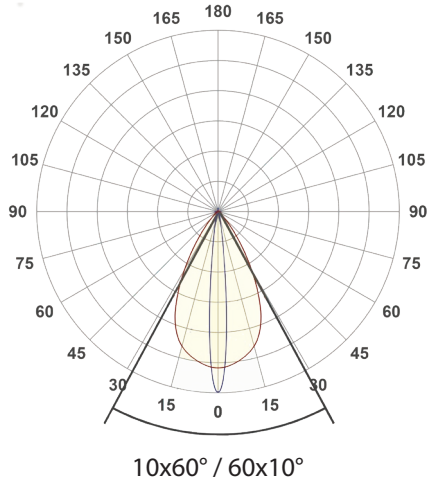
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)

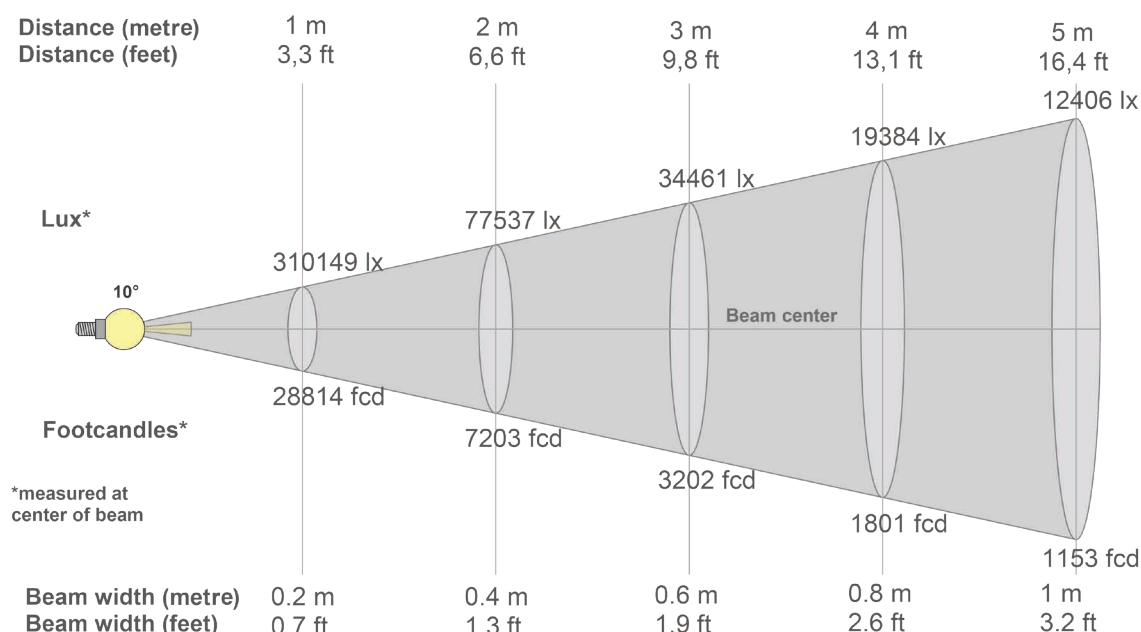


10x60° / 60x10° Elliptical Beam (With HBS)



LuxEOS Flood 36 - 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
310149lx	77537lx	34461lx	19384lx	12406lx	8615lx	6330lx	4846lx	3829lx	3101lx	2563lx	2154lx	1835lx	1582lx	1378lx	1212lx	1073lx	957lx	859lx	775lx
28813.8fcd	7203.5fcd	3201.5fcd	1800.9fcd	1152.6fcd	800.4fcd	588fcd	450.2fcd	355.7fcd	288.1fcd	238.1fcd	200.1fcd	170.5fcd	147fcd	128.1fcd	112.6fcd	99.7fcd	88.9fcd	79.8fcd	72fcd

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°
310K	306K	294K	273K	237K	188K	137K	92K	59K	37K	24K	17K	13K	11K	9K	7K	6K	5K	4K	3K
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°
310K	306K	294K	273K	237K	188K	137K	92K	59K	37K	24K	17K	13K	11K	9K	7K	6K	5K	4K	3K
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°
310K	306K	294K	273K	237K	188K	137K	92K	59K	37K	24K	17K	13K	11K	9K	7K	6K	5K	4K	3K
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°
310K	306K	294K	273K	237K	188K	137K	92K	59K	37K	24K	17K	13K	11K	9K	7K	6K	5K	4K	3K
100%	99%	95%	88%	76%	61%	44%	30%	19%	12%	8%	5%	4%	3%	3%	2%	2%	2%	1%	1%

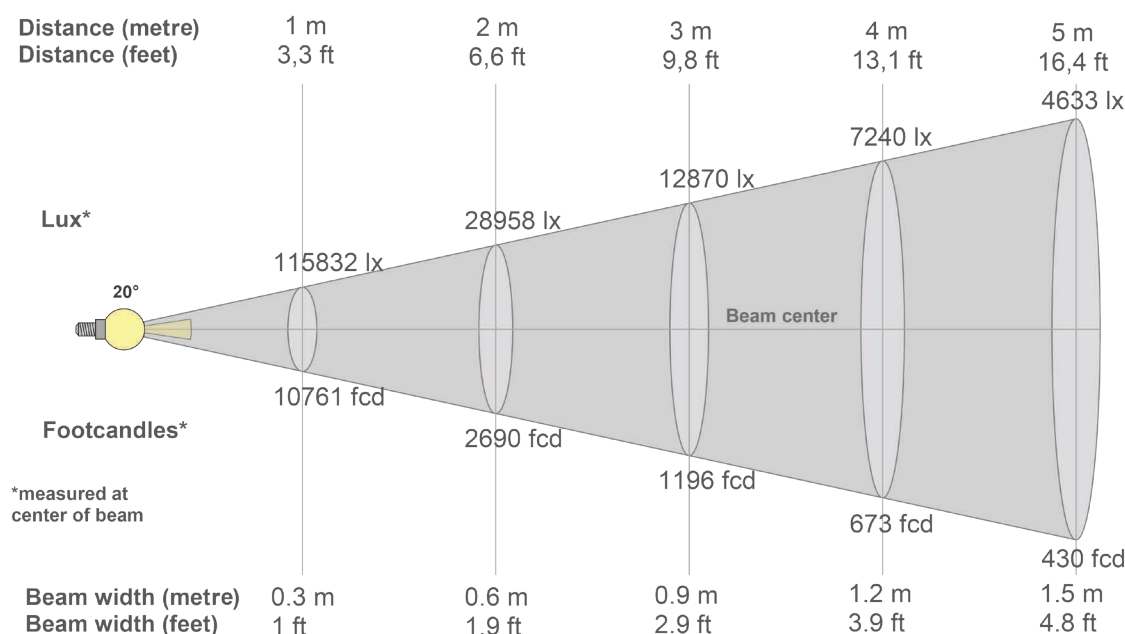
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11.3°	18.8°	29.4°	97.5%	96.0%

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LuxEOS Flood 36 - 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
115832lx	28958lx	12870lx	7240lx	4633lx	3218lx	2364lx	1810lx	1430lx	1158lx	957lx	804lx	685lx	591lx	515lx	452lx	401lx	358lx	321lx	290lx
10761.2fc	2690.3fc	1195.7fc	672.6fc	430.4fc	298.9fc	219.6fc	168.1fc	132.9fc	107.6fc	88.9fc	74.7fc	63.7fc	54.9fc	47.8fc	42fc	37.2fc	33.2fc	29.8fc	26.9fc

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°
116K	115K	111K	106K	99K	90K	81K	71K	61K	52K	44K	37K	30K	25K	20K	16K	13K	10K	9K	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°
116K	115K	111K	106K	99K	90K	81K	71K	61K	52K	44K	37K	30K	25K	20K	16K	13K	10K	9K	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°
116K	115K	111K	106K	99K	90K	81K	71K	61K	52K	44K	37K	30K	25K	20K	16K	13K	10K	9K	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°
116K	115K	111K	106K	99K	90K	81K	71K	61K	52K	44K	37K	30K	25K	20K	16K	13K	10K	9K	7K
100%	99%	96%	91%	85%	78%	70%	61%	53%	45%	38%	32%	26%	21%	17%	14%	11%	9%	7%	6%

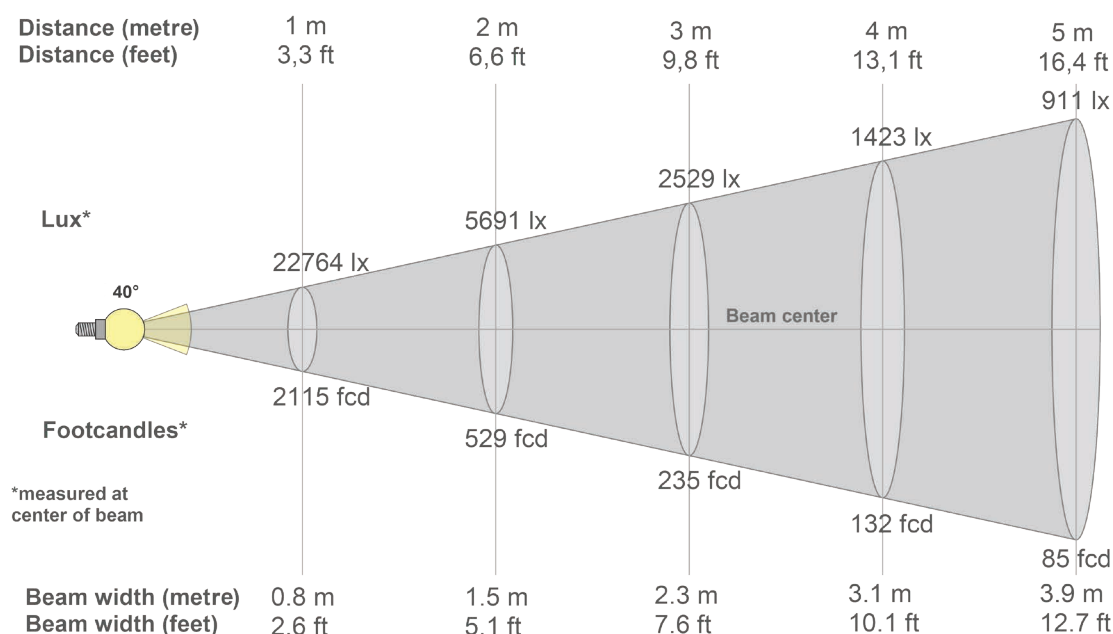
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.8°	33.1°	47.6°	97.0%	94.9%

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LuxEOS Flood 36 - 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
22764lx	5691lx	2529lx	1423lx	911lx	632lx	465lx	356lx	281lx	228lx	188lx	158lx	135lx	116lx	101lx	89lx	79lx	70lx	63lx	57lx
2114.8fc	528.7fc	235fc	132.2fc	84.6fc	58.7fc	43.2fc	33fc	26.1fc	21.1fc	17.5fc	14.7fc	12.5fc	10.8fc	9.4fc	8.3fc	7.3fc	6.5fc	5.9fc	5.3fc

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°
22.8K	22.7K	22.4K	21.8K	21.1K	20.1K	18.9K	17.5K	15.9K	14.2K	12.4K	10.6K	8.9K	7.4K	6.1K	5.0K	4.2K	3.4K	2.8K	2.3K
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°
22.8K	22.7K	22.4K	21.8K	21.1K	20.1K	18.9K	17.5K	15.9K	14.2K	12.4K	10.6K	8.9K	7.4K	6.1K	5.0K	4.2K	3.4K	2.8K	2.3K
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°
22.8K	22.7K	22.4K	21.8K	21.1K	20.1K	18.9K	17.5K	15.9K	14.2K	12.4K	10.6K	8.9K	7.4K	6.1K	5.0K	4.2K	3.4K	2.8K	2.3K
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°
22.8K	22.7K	22.4K	21.8K	21.1K	20.1K	18.9K	17.5K	15.9K	14.2K	12.4K	10.6K	8.9K	7.4K	6.1K	5.0K	4.2K	3.4K	2.8K	2.3K
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	55%	47%	39%	33%	27%	22%	18%	15%	12%	10%

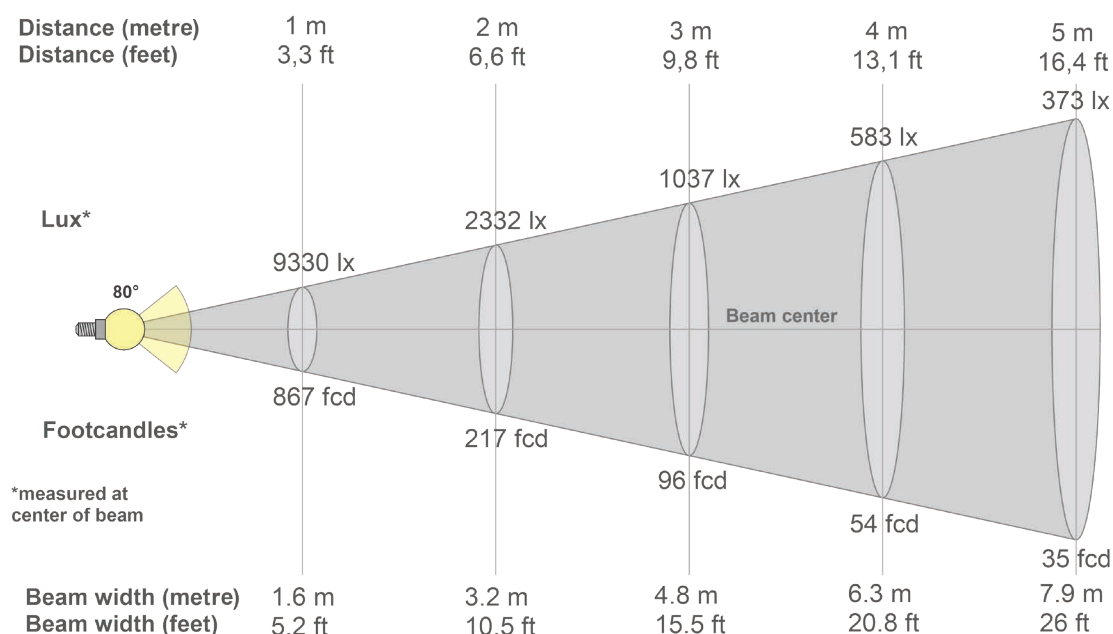
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.3°	76.6°	105.5°	96.7%	90.9%

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LuxEOS Flood 36 - 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
9330lx	2332lx	1037lx	583lx	373lx	259lx	190lx	146lx	115lx	93lx	77lx	65lx	55lx	48lx	41lx	36lx	32lx	29lx	26lx	23lx
866.8fc	216.7fc	96.3fc	54.2fc	34.7fc	24.1fc	17.7fc	13.5fc	10.7fc	8.7fc	7.2fc	6fc	5.1fc	4.4fc	3.9fc	3.4fc	3fc	2.7fc	2.4fc	2.2fc

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°
9330	9022	8596	8505	8415	8016	7115	5710	4184	2794	1684	974	582	368	238	145	72	21	5	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°
9330	9022	8596	8505	8415	8016	7115	5710	4184	2794	1684	974	582	368	238	145	72	21	5	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°
9330	9022	8596	8505	8415	8016	7115	5710	4184	2794	1684	974	582	368	238	145	72	21	5	0
100%	97%	92%	91%	90%	86%	76%	61%	45%	30%	18%	10%	6%	4%	3%	2%	1%	0%	0%	0%

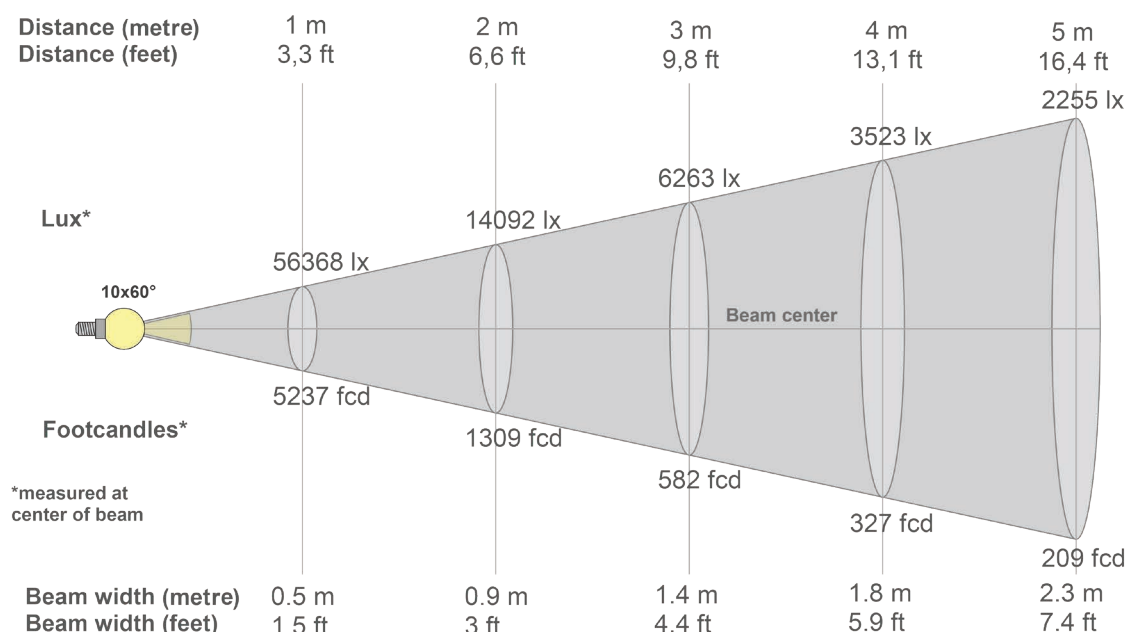
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
9330	9022	8596	8505	8415	8016	7115	5710	4184	2794	1684	974	582	368	238	145	72	21	5	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 36 - 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
56368lx	14092lx	6263lx	3523lx	2255lx	1566lx	1150lx	881lx	696lx	564lx	466lx	391lx	334lx	288lx	251lx	220lx	195lx	174lx	156lx	141lx
5236.8fc	1309.2fc	581.9fc	327.3fc	209.5fc	145.5fc	106.9fc	81.8fc	64.7fc	52.4fc	43.3fc	36.4fc	31fc	26.7fc	23.3fc	20.5fc	18.1fc	16.2fc	14.5fc	13.1fc

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°
56.4K	52.9K	52.5K	51.8K	51.1K	50.2K	49.2K	47.9K	46.4K	44.4K	41.9K	38.8K	35.2K	31.1K	26.9K	22.7K	18.7K	15.0K	11.7K	8.9K
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°
56.4K	55.7K	41.3K	24.8K	13.4K	7.9K	5.4K	3.8K	2.7K	1.9K	1.4K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K	0.3K	0.3K
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°
56.4K	52.9K	52.5K	51.8K	51.1K	50.2K	49.2K	47.9K	46.4K	44.4K	41.9K	38.8K	35.2K	31.1K	26.9K	22.7K	18.7K	15.0K	11.7K	8.9K
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°
56.4K	55.7K	41.3K	24.8K	13.4K	7.9K	5.4K	3.8K	2.7K	1.9K	1.4K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K	0.3K	0.3K
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%

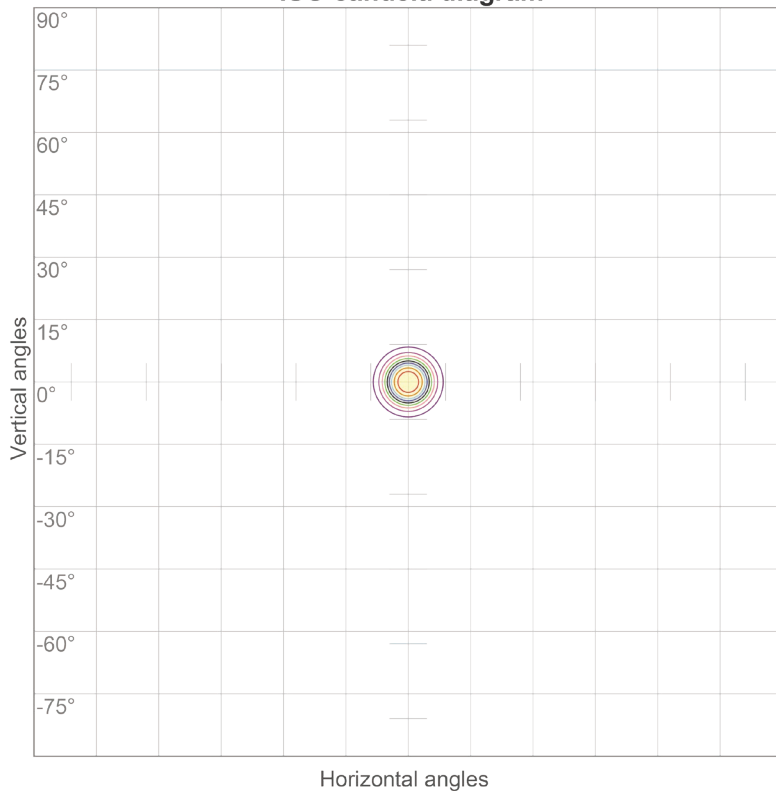
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LuxEOS Flood 36 - TW (1700-5700K) ISO Candela & ISO Lux diagrams with 10° Optics



ISO candela diagram



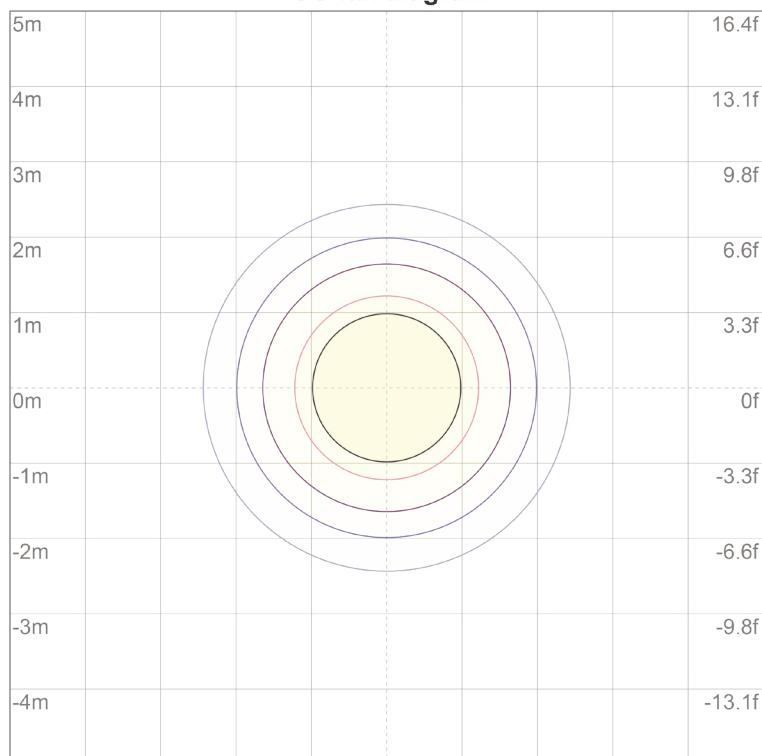
10%	31015 cd
20%	62030 cd
30%	93045 cd
40%	124060 cd
50%	155075 cd
60%	186090 cd
70%	217105 cd
80%	248120 cd
90%	279135 cd

Conditions:

Number of c-planes: 72

Candela at center: 310149 cd

ISO lux diagram



3%	93.0 lx
5%	155 lx
10%	310 lx
30%	930 lx
50%	1551 lx

Conditions:

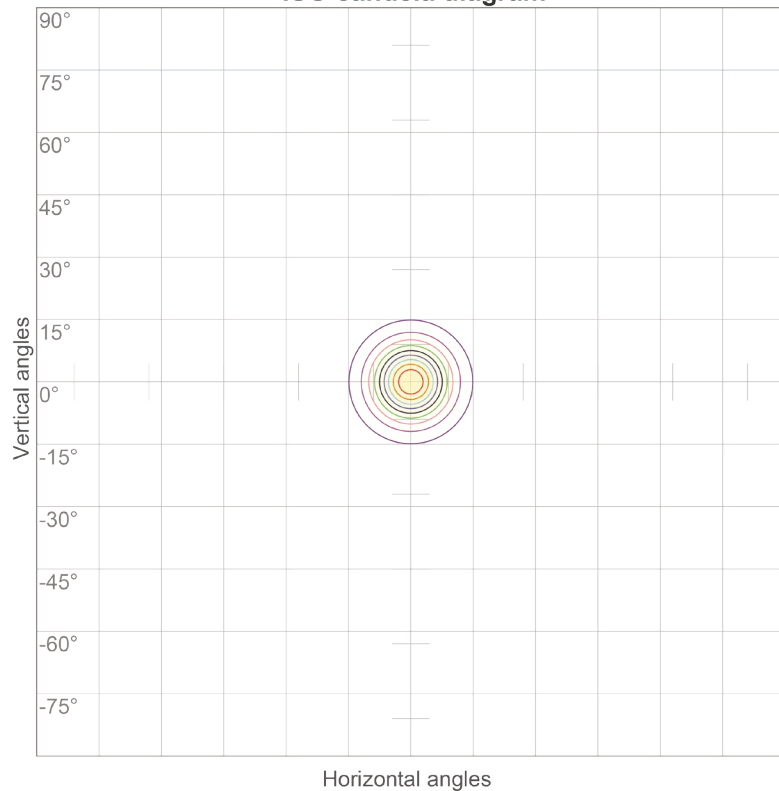
Number of c-planes: 72

Lux at center: 3101 lx

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



ISO candela diagram



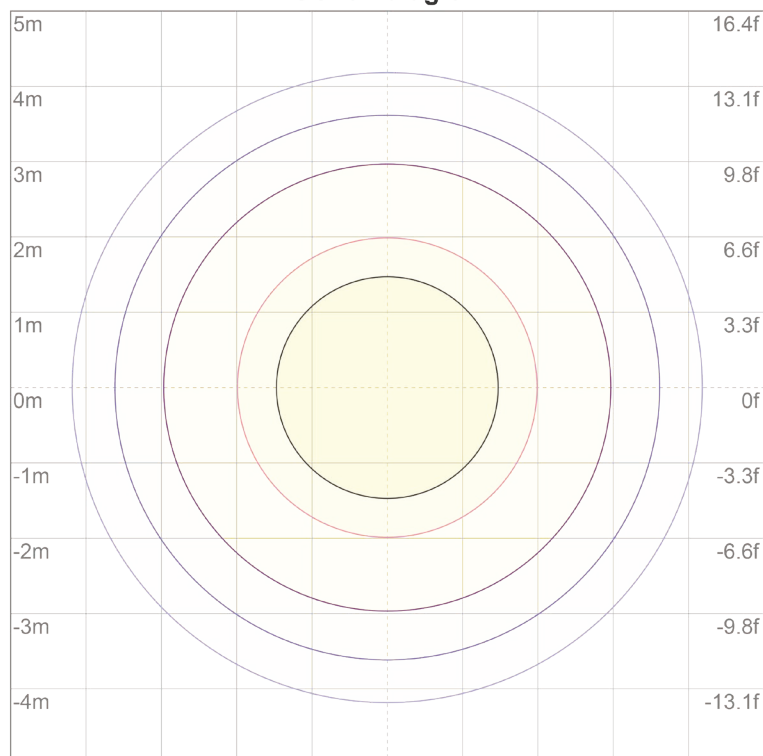
10%	11583 cd
20%	23166 cd
30%	34750 cd
40%	46333 cd
50%	57916 cd
60%	69499 cd
70%	81082 cd
80%	92666 cd
90%	104249 cd

Conditions:

Number of c-planes: 72

Candela at center: 115832 cd

ISO lux diagram



3%	34.7 lx
5%	57.9 lx
10%	116 lx
30%	347 lx
50%	579 lx

Conditions:

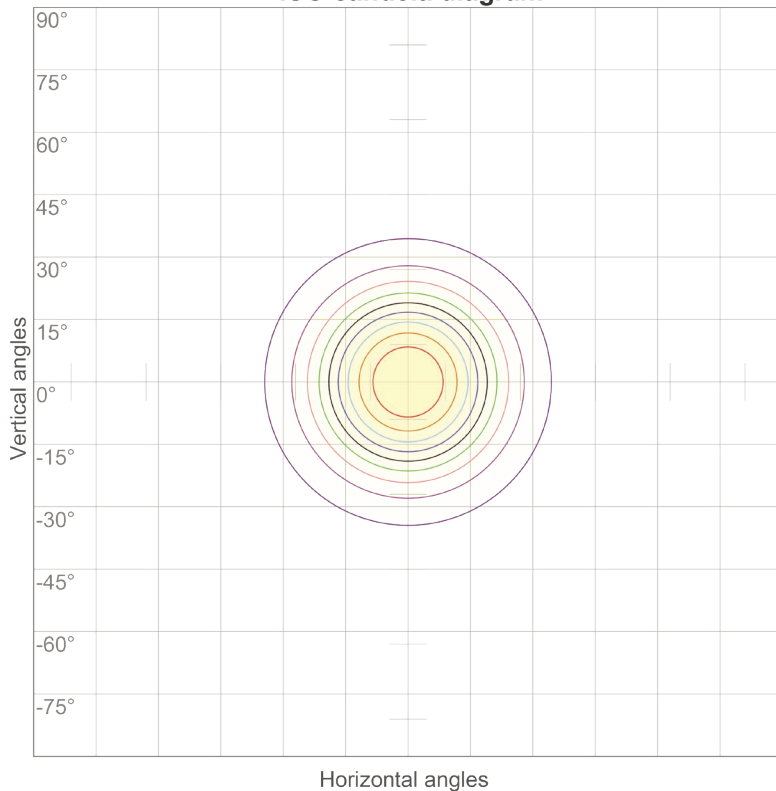
Number of c-planes: 72

Lux at center: 1158 lx

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



ISO candela diagram



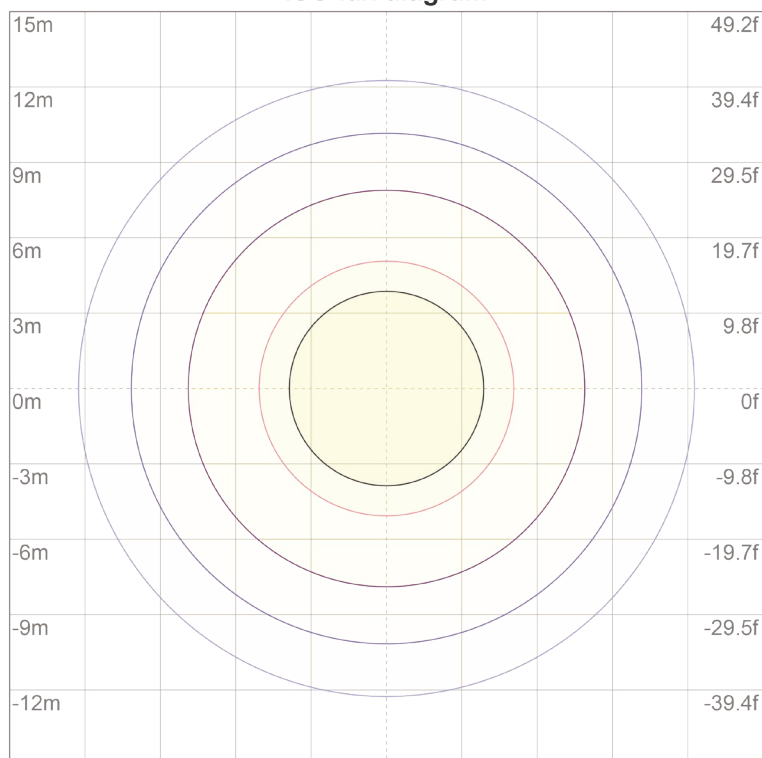
10%	2276 cd
20%	4553 cd
30%	6829 cd
40%	9106 cd
50%	11382 cd
60%	13658 cd
70%	15935 cd
80%	18211 cd
90%	20488 cd

Conditions:

Number of c-planes: 72

Candela at center: 22764 cd

ISO lux diagram



3%	6.83 lx
5%	11.4 lx
10%	22.8 lx
30%	68.3 lx
50%	114 lx

Conditions:

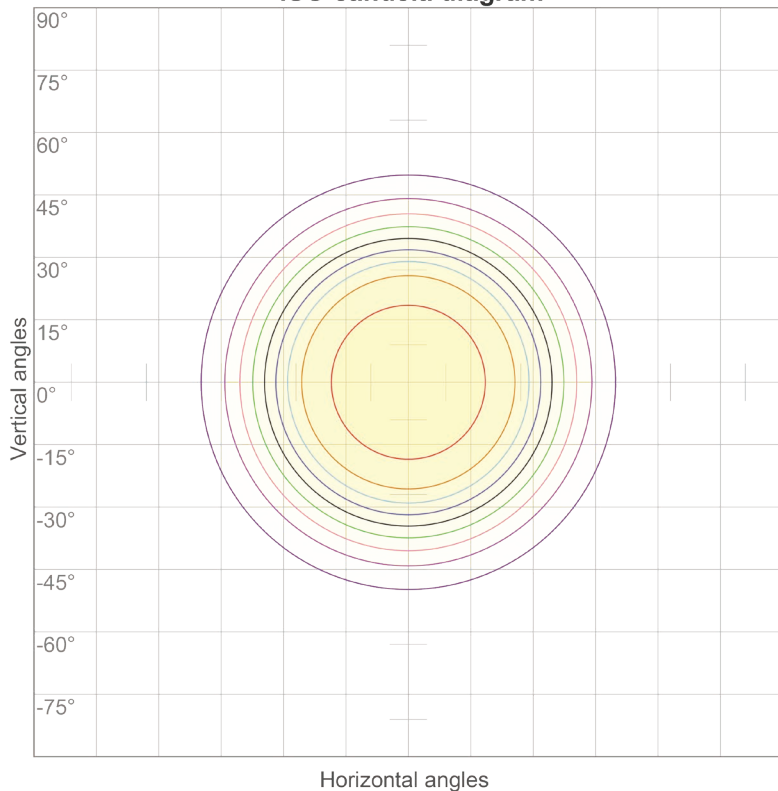
Number of c-planes: 72

Lux at center: 228 lx

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



ISO candela diagram



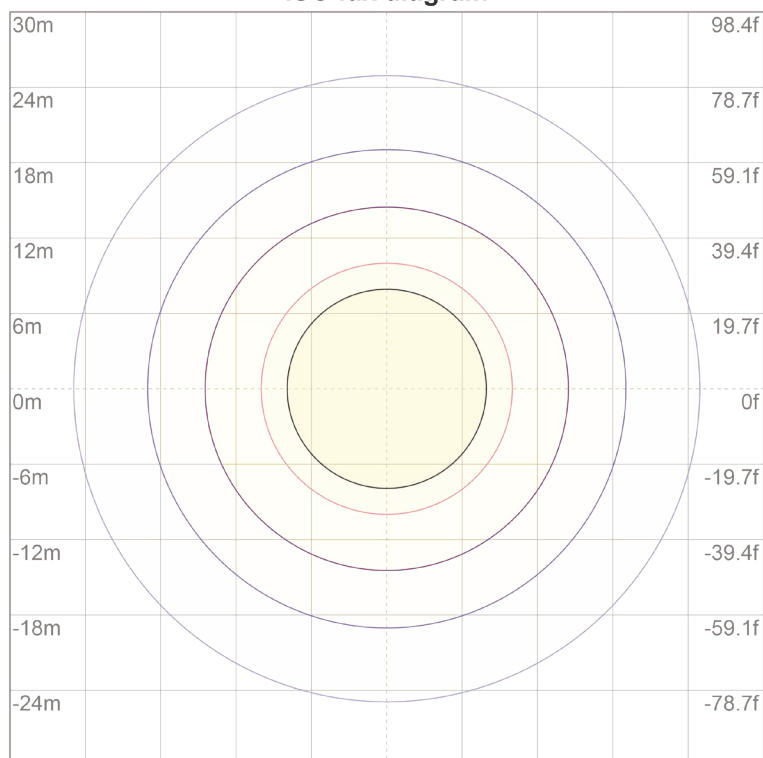
10%	933 cd
20%	1866 cd
30%	2799 cd
40%	3732 cd
50%	4665 cd
60%	5598 cd
70%	6531 cd
80%	7464 cd
90%	8397 cd

Conditions:

Number of c-planes: 72

Candela at center: 9330 cd

ISO lux diagram



3%	2.80 lx
5%	4.66 lx
10%	9.33 lx
30%	28.0 lx
50%	46.6 lx

Conditions:

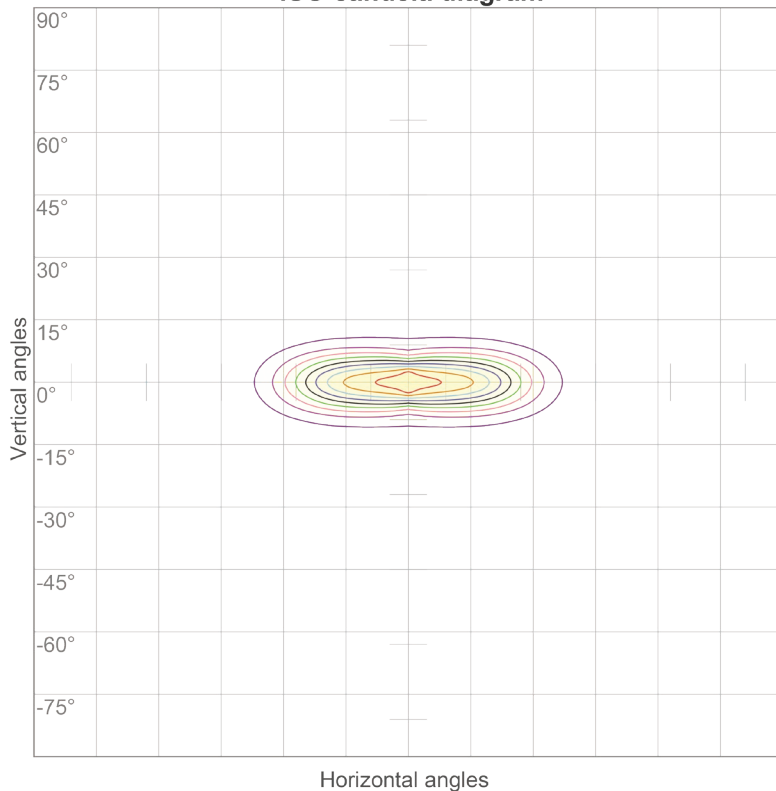
Number of c-planes: 72

Lux at center: 93.3 lx

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



ISO candela diagram



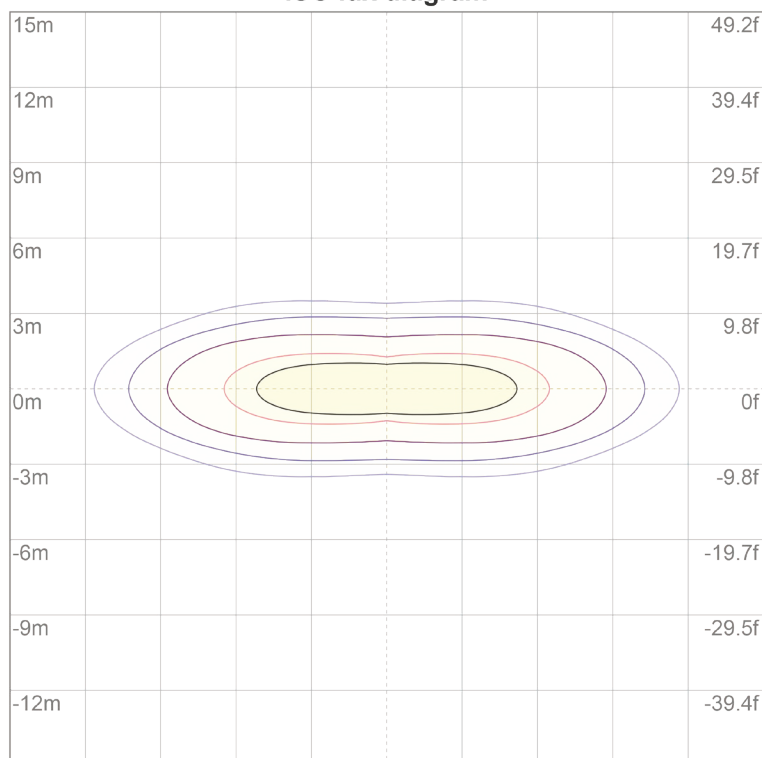
10%	5637 cd
20%	11274 cd
30%	16911 cd
40%	22547 cd
50%	28184 cd
60%	33821 cd
70%	39458 cd
80%	45095 cd
90%	50732 cd

Conditions:

Number of c-planes: 72

Candela at center: 56368 cd

ISO lux diagram



3%	16.9 lx
5%	28.2 lx
10%	56.4 lx
30%	169 lx
50%	282 lx

Conditions:

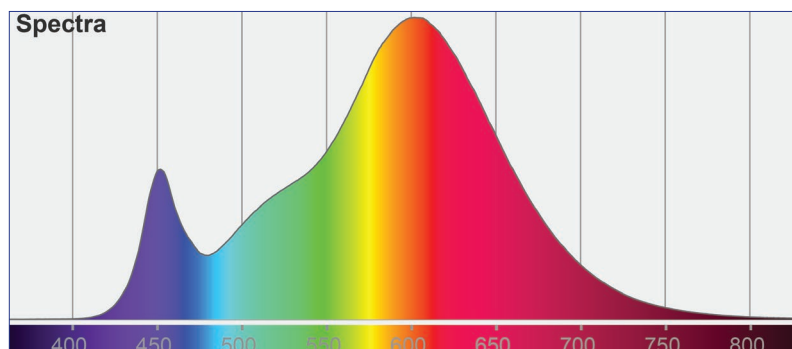
Number of c-planes: 72

Lux at center: 564 lx

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

LuxEOS Flood 36 - TW (1700-5700K)

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



Total Lumen Output (Native) : 15092 lm

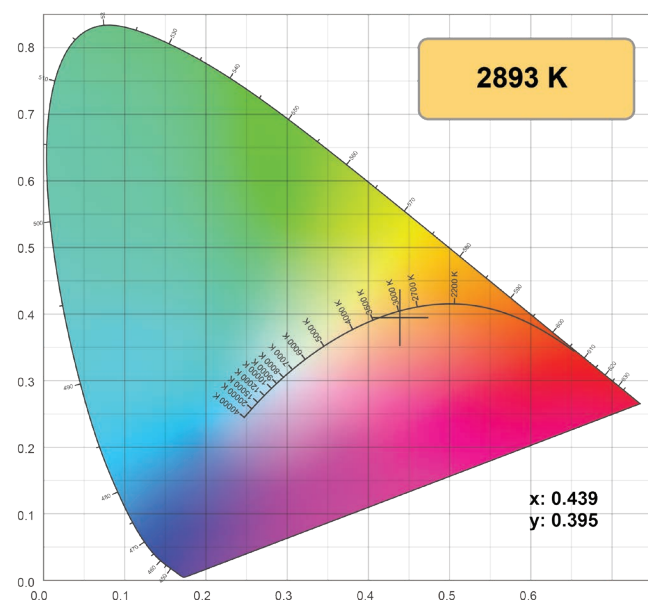
Efficacy : 63 lm/W

Voltage : 240V

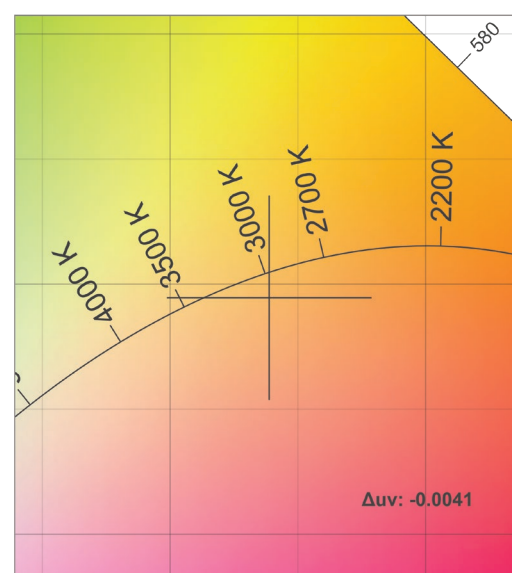
Supply Power : 240W

Supply Power Factor : 0.97

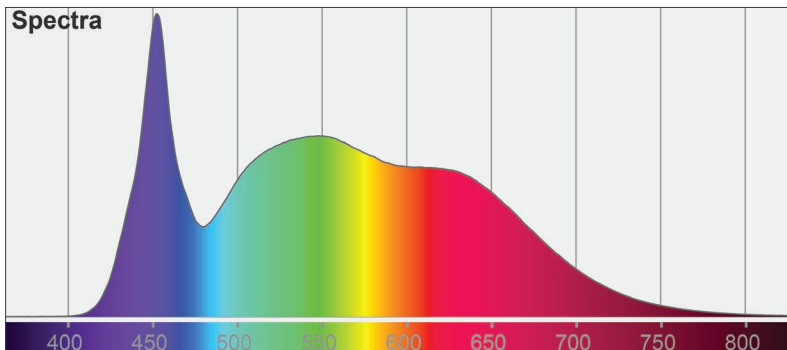
CIE 1931



CIE 1931 Zoom

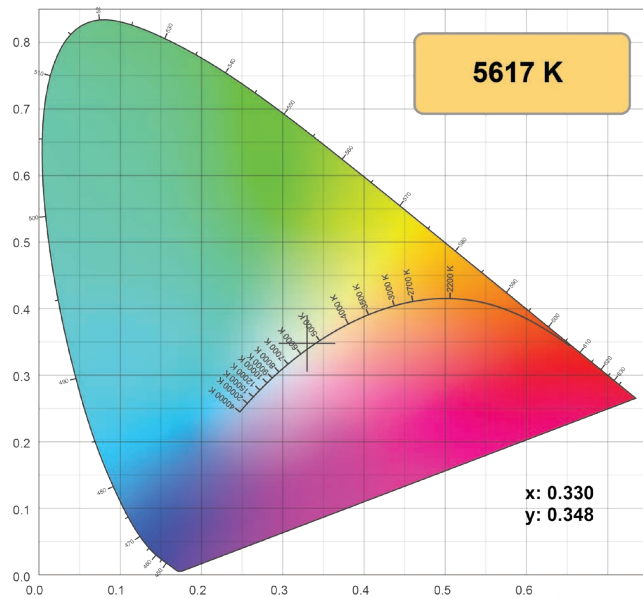


LuxEOS Flood 36 - TW (1700-5700K) Colormetrics **5700K**

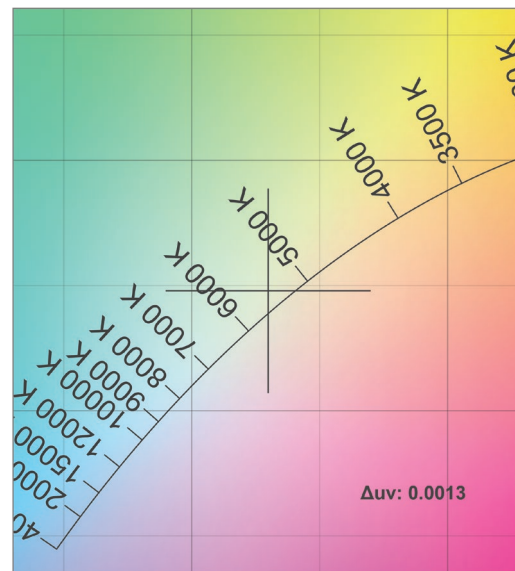


White 5700K Lumen Output : 6908 lm
CRI: 90

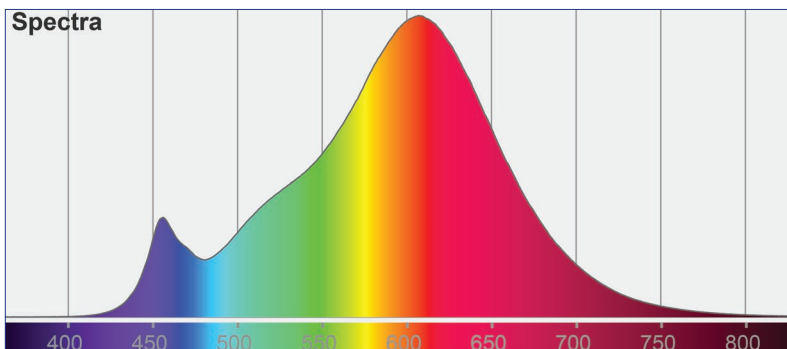
CIE 1931



CIE 1931 Zoom

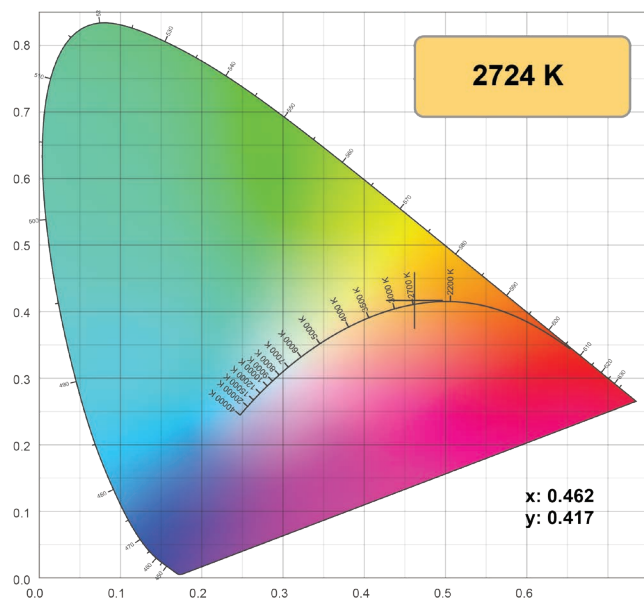


LuxEOS Flood 36 - TW (1700-5700K) Colormetrics **2700K**

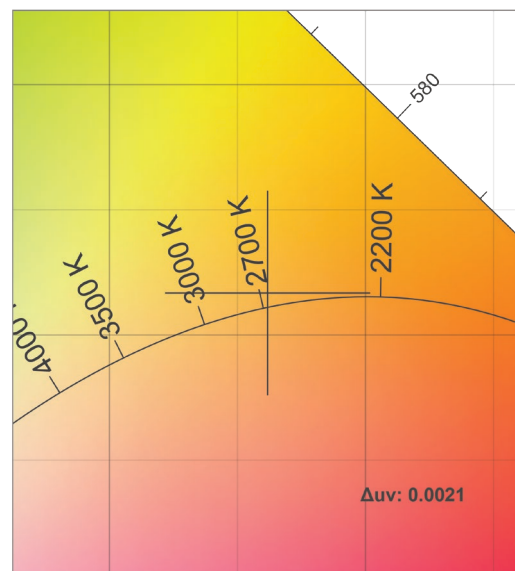


White 2700K Lumen Output : 9180 lm
CRI: 80

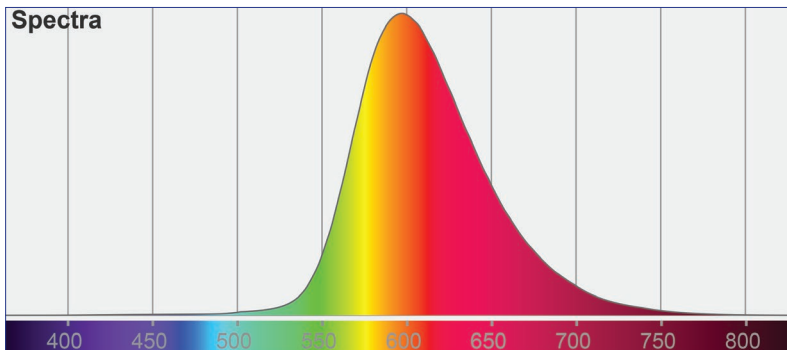
CIE 1931



CIE 1931 Zoom

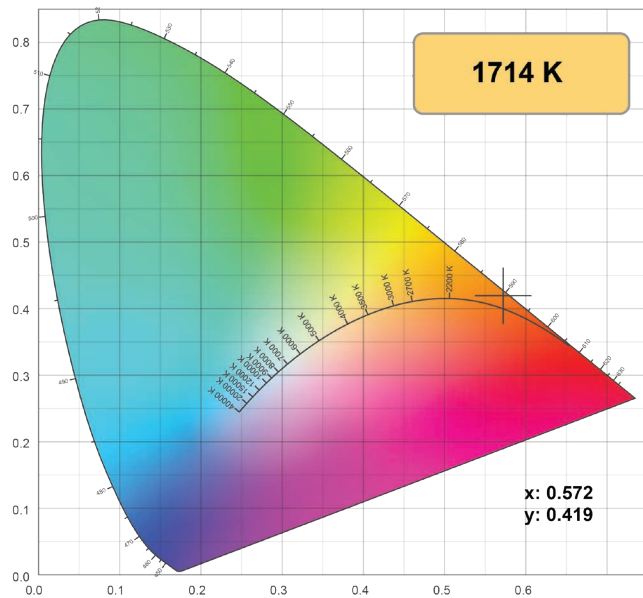


LuxEOS Flood 36 - TW (1700-5700K) Colormetrics **1700K**

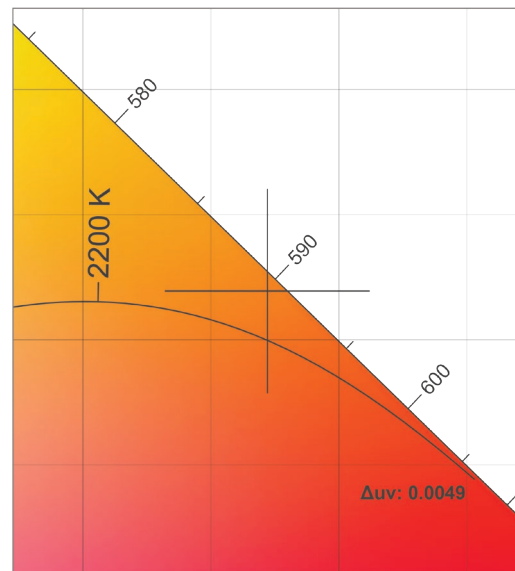


Amber 1700K Lumen Output : 4356 lm

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.

PULSAR

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