

Fira Ultra Flood VIVID COLOUR

COMPACT LED FLOOD FOR ARCHITECTURAL LIGHTING



Fira Ultra Flood - RGBW (5700K)
14° 20° 40° 80° 14x60° 60x14°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

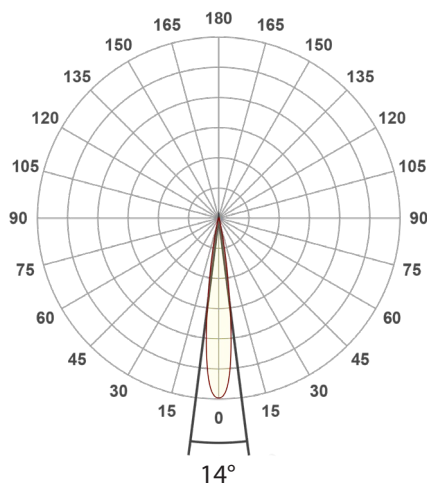
Date
June 2021

Dimensions
212mm (H) x 175mm (W) x 106mm (D) (including yoke)

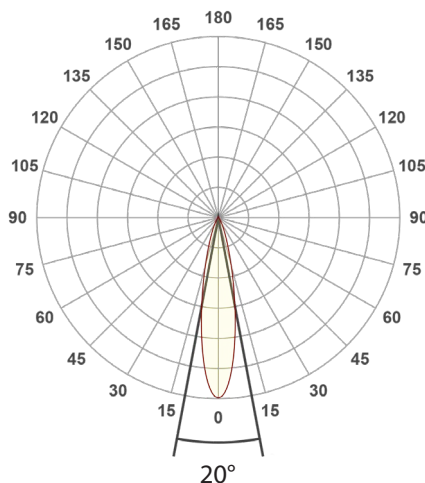
Weight
4.5 kgs (9.9lbs)

Polar Distribution

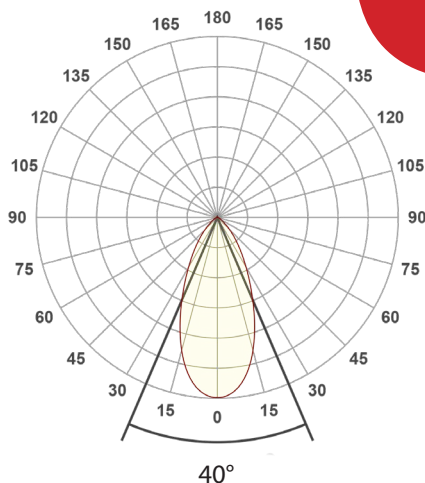
14° Conical Beam (With HBS)



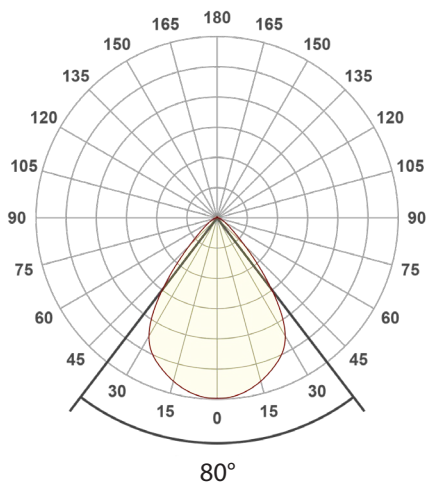
20° Conical Beam (With HBS)



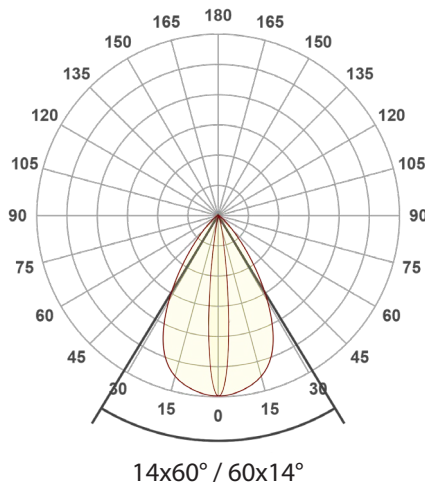
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)



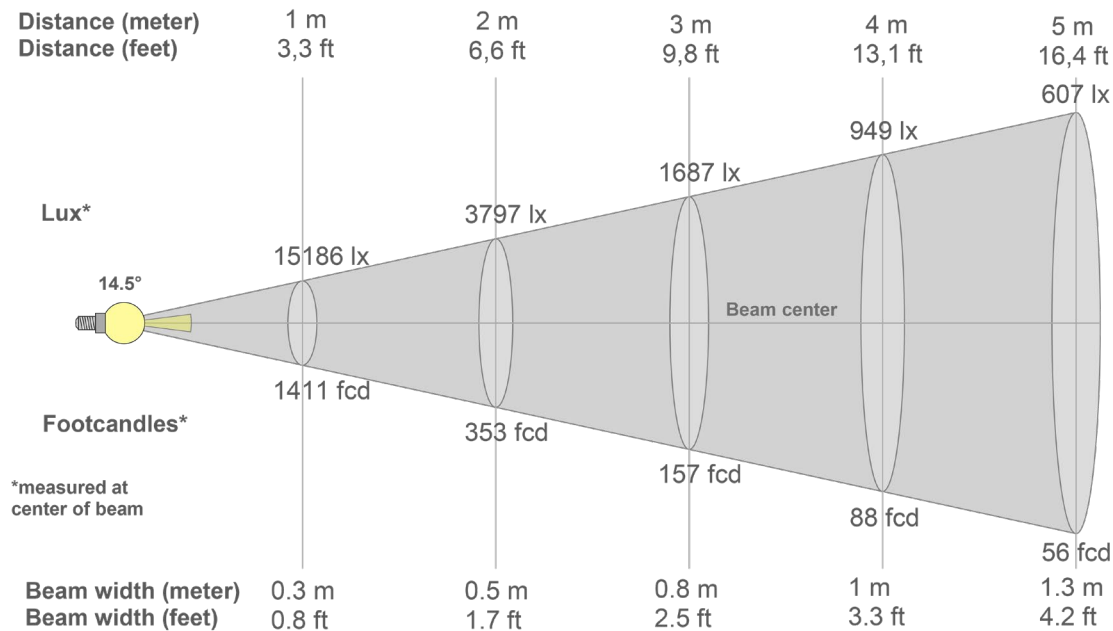
14x60° / 60x14° Elliptical Beam (With HBS)



Fira Ultra Flood - RGBW (5700k)

Intensities at Distance with 14° Optics

Lumen Output : 1259 lm



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
15186lx	3797lx	1687lx	949lx	607lx	422lx	310lx	237lx	187lx	152lx	126lx	105lx	90lx	77lx	67lx	59lx	53lx	47lx	42lx	38lx
1410.9fc	352.7fc	156.8fc	88.2fc	56.4fc	39.2fc	28.8fc	22fc	17.4fc	14.1fc	11.7fc	9.8fc	8.3fc	7.2fc	6.3fc	5.5fc	4.9fc	4.4fc	3.9fc	3.5fc

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°
15.2K	15.1K	14.8K	14.1K	13.1K	11.7K	9.9K	8.0K	6.2K	4.6K	3.3K	2.4K	1.7K	1.2K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K
100%	99%	97%	93%	86%	77%	65%	53%	41%	30%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%

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°
15.2K	15.1K	14.8K	14.1K	13.1K	11.7K	9.9K	8.0K	6.2K	4.6K	3.3K	2.4K	1.7K	1.2K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K
100%	99%	97%	93%	86%	77%	65%	53%	41%	30%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%

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°
15.2K	15.1K	14.8K	14.1K	13.1K	11.7K	9.9K	8.0K	6.2K	4.6K	3.3K	2.4K	1.7K	1.2K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K
100%	99%	97%	93%	86%	77%	65%	53%	41%	30%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%

Intensities in 270° c-plane

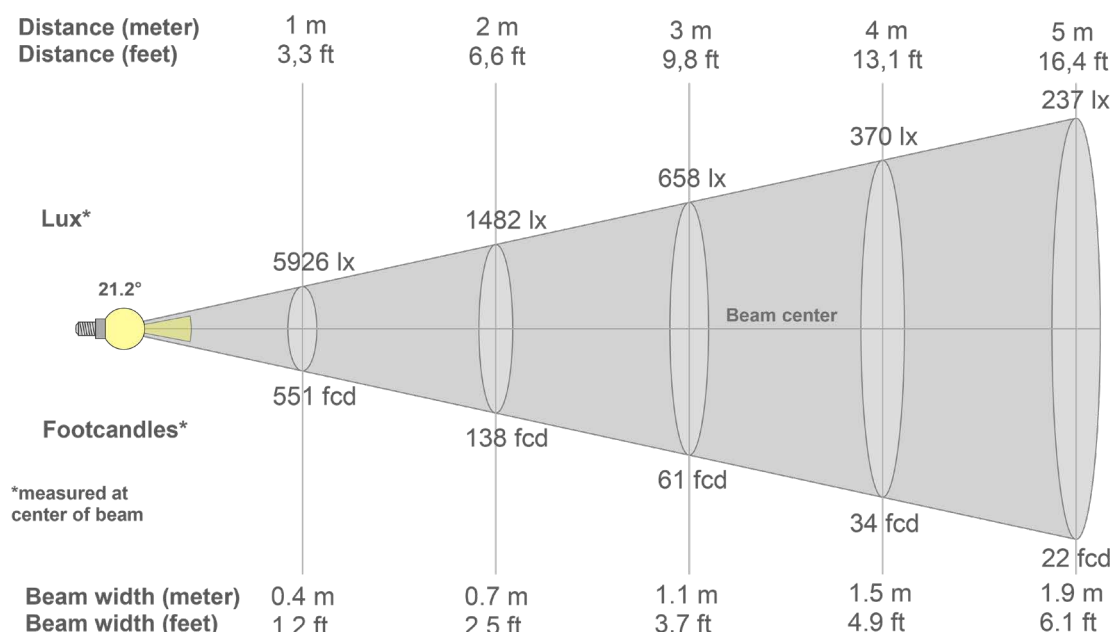
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
15.2K	15.1K	14.8K	14.1K	13.1K	11.7K	9.9K	8.0K	6.2K	4.6K	3.3K	2.4K	1.7K	1.2K	0.9K	0.7K	0.6K	0.5K	0.4K	0.4K
100%	99%	97%	93%	86%	77%	65%	53%	41%	30%	22%	16%	11%	8%	6%	5%	4%	3%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14.5°	24.7°	37.8°	96.9%	94.8%

Fira Ultra Flood - RGBW (5700k)

Intensities at Distance with 20° Optics

Lumen Output : 1258 lm



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
5926lx	1482lx	658lx	370lx	237lx	165lx	121lx	93lx	73lx	59lx	49lx	41lx	35lx	30lx	26lx	23lx	21lx	18lx	16lx	15lx
550.6fcd	137.6fcd	61.2fcd	34.4fcd	22fcd	15.3fcd	11.2fcd	8.6fcd	6.8fcd	5.5fcd	4.6fcd	3.8fcd	3.3fcd	2.8fcd	2.4fcd	2.2fcd	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°
5926	5769	5326	4678	3929	3171	2480	1891	1420	1060	793	598	454	348	269	209	165	131	106	87
100%	97%	90%	79%	66%	54%	42%	32%	24%	18%	13%	10%	8%	6%	5%	4%	3%	2%	2%	1%

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°
5926	5769	5326	4678	3929	3171	2480	1891	1420	1060	793	598	454	348	269	209	165	131	106	87
100%	97%	90%	79%	66%	54%	42%	32%	24%	18%	13%	10%	8%	6%	5%	4%	3%	2%	2%	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°
5926	5769	5326	4678	3929	3171	2480	1891	1420	1060	793	598	454	348	269	209	165	131	106	87
100%	97%	90%	79%	66%	54%	42%	32%	24%	18%	13%	10%	8%	6%	5%	4%	3%	2%	2%	1%

Intensities in 270° c-plane

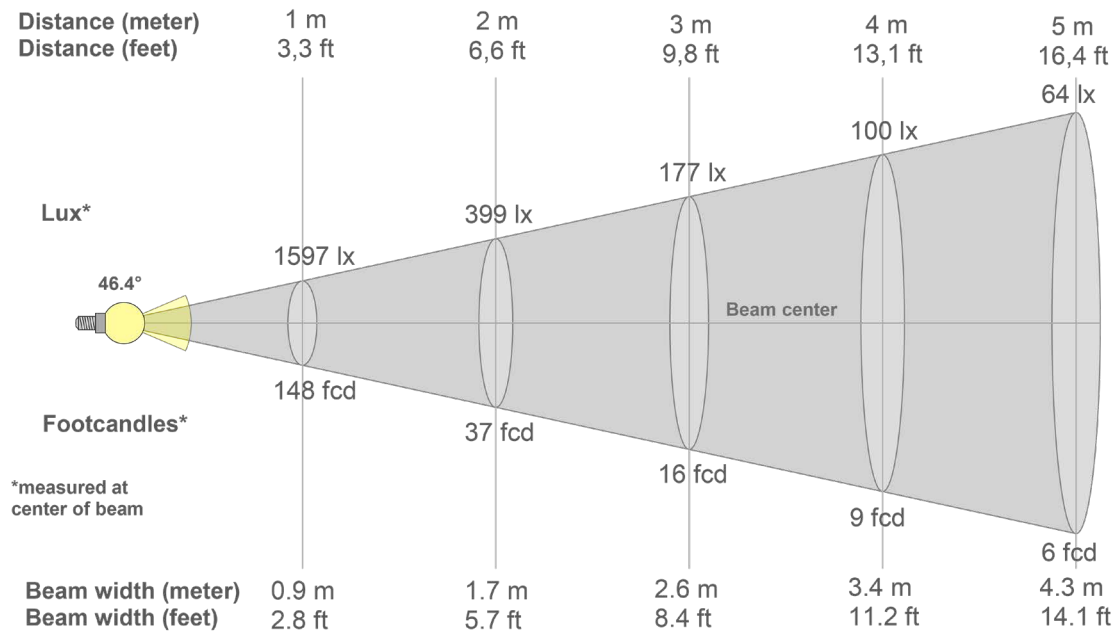
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5926	5769	5326	4678	3929	3171	2480	1891	1420	1060	793	598	454	348	269	209	165	131	106	87
100%	97%	90%	79%	66%	54%	42%	32%	24%	18%	13%	10%	8%	6%	5%	4%	3%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.2°	44.1°	65.9°	95.4%	91.9%

Fira Ultra Flood - RGBW (5700k)

Intensities at Distance with 40° Optics

Lumen Output : 1250 lm



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
1597lx	399lx	177lx	100lx	64lx	44lx	33lx	25lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx
148.3fcd	37.1fcd	16.5fcd	9.3fcd	5.9fcd	4.1fcd	3fcd	2.3fcd	1.8fcd	1.5fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

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°
1597	1592	1573	1540	1493	1431	1356	1268	1171	1068	963	859	760	668	585	511	444	385	332	284
100%	100%	99%	96%	94%	90%	85%	79%	73%	67%	60%	54%	48%	42%	37%	32%	28%	24%	21%	18%

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°
1597	1592	1573	1540	1493	1431	1356	1268	1171	1068	963	859	760	668	585	511	444	385	332	284
100%	100%	99%	96%	94%	90%	85%	79%	73%	67%	60%	54%	48%	42%	37%	32%	28%	24%	21%	18%

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°
1597	1592	1573	1540	1493	1431	1356	1268	1171	1068	963	859	760	668	585	511	444	385	332	284
100%	100%	99%	96%	94%	90%	85%	79%	73%	67%	60%	54%	48%	42%	37%	32%	28%	24%	21%	18%

Intensities in 270° c-plane

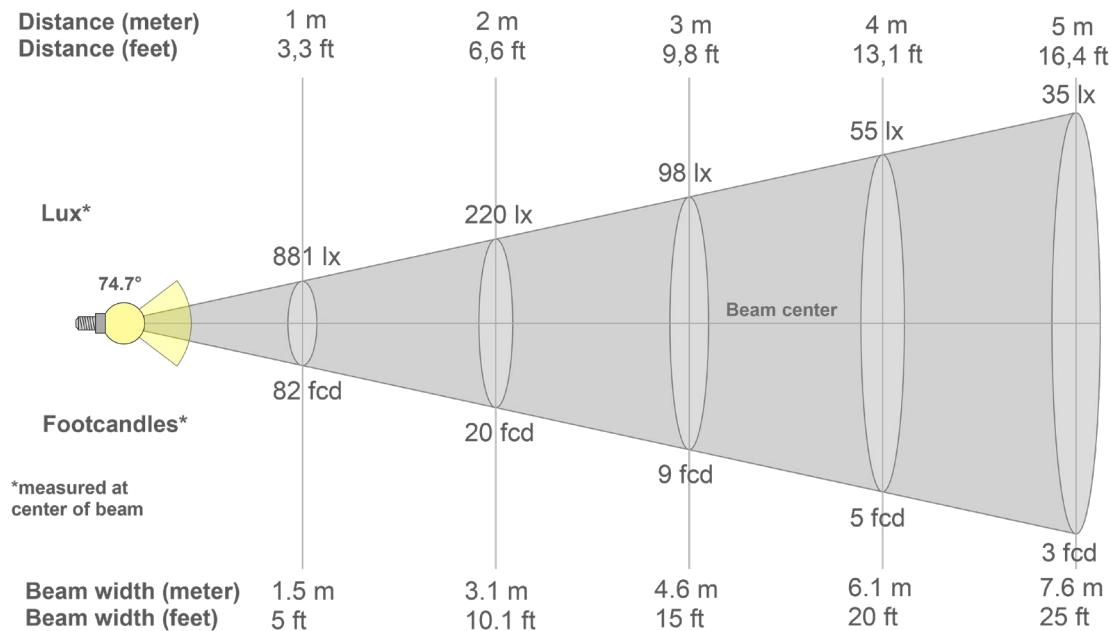
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1597	1592	1573	1540	1493	1431	1356	1268	1171	1068	963	859	760	668	585	511	444	385	332	284
100%	100%	99%	96%	94%	90%	85%	79%	73%	67%	60%	54%	48%	42%	37%	32%	28%	24%	21%	18%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46.4°	89.3°	118.7°	95.7%	87.5%

Fira Ultra Flood - RGBW (5700k)

Intensities at Distance with 80° Optics

Lumen Output : 1248 lm



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
881lx	220lx	98lx	55lx	35lx	24lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
81.8fc	20.5fc	9.1fc	5.1fc	3.3fc	2.3fc	1.7fc	1.3fc	1fc	0.8fc	0.7fc	0.6fc	0.5fc	0.4fc	0.4fc	0.3fc	0.3fc	0.3fc	0.2fc	0.2fc

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°
881	875	856	825	786	740	665	524	343	193	111	69	47	33	23	15	8	3	1	0
100%	99%	97%	94%	89%	84%	76%	59%	39%	22%	13%	8%	5%	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°
881	875	856	825	786	740	665	524	343	193	111	69	47	33	23	15	8	3	1	0
100%	99%	97%	94%	89%	84%	76%	59%	39%	22%	13%	8%	5%	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°
881	875	856	825	786	740	665	524	343	193	111	69	47	33	23	15	8	3	1	0
100%	99%	97%	94%	89%	84%	76%	59%	39%	22%	13%	8%	5%	4%	3%	2%	1%	0%	0%	0%

Intensities in 270° c-plane

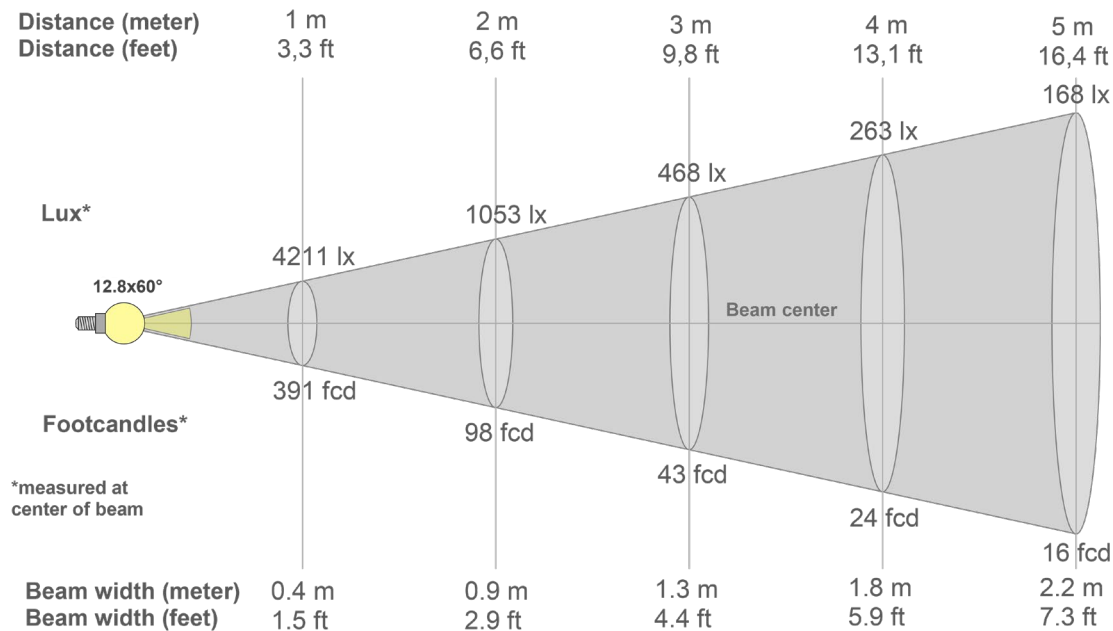
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
881	875	856	825	786	740	665	524	343	193	111	69	47	33	23	15	8	3	1	0
100%	99%	97%	94%	89%	84%	76%	59%	39%	22%	13%	8%	5%	4%	3%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74.7°	104.5°	141.2°	94.6%	84.9%

Fira Ultra Flood - RGBW (5700k)

Intensities at Distance with 14x60° 60x14° Optics

Lumen Output : 1231 lm



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
4211lx	1053lx	468lx	263lx	168lx	117lx	86lx	66lx	52lx	42lx	35lx	29lx	25lx	21lx	19lx	16lx	15lx	13lx	12lx	11lx
391.2fc	97.8fc	43.5fc	24.5fc	15.6fc	10.9fc	8fc	6.1fc	4.8fc	3.9fc	3.2fc	2.7fc	2.3fc	2fc	1.7fc	1.5fc	1.4fc	1.2fc	1.1fc	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°
4211	4204	4180	4144	4102	4051	3981	3889	3782	3652	3481	3271	3022	2738	2429	2110	1787	1486	1194	956
100%	100%	99%	98%	97%	96%	95%	92%	90%	87%	83%	78%	72%	65%	58%	50%	42%	35%	28%	23%

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°
4211	4146	3563	2348	1261	675	419	306	245	197	154	121	98	79	65	54	45	38	33	29
100%	98%	85%	56%	30%	16%	10%	7%	6%	5%	4%	3%	2%	2%	2%	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°
4211	4204	4180	4144	4102	4051	3981	3889	3782	3652	3481	3271	3022	2738	2429	2110	1787	1486	1194	956
100%	100%	99%	98%	97%	96%	95%	92%	90%	87%	83%	78%	72%	65%	58%	50%	42%	35%	28%	23%

Intensities in 270° c-plane

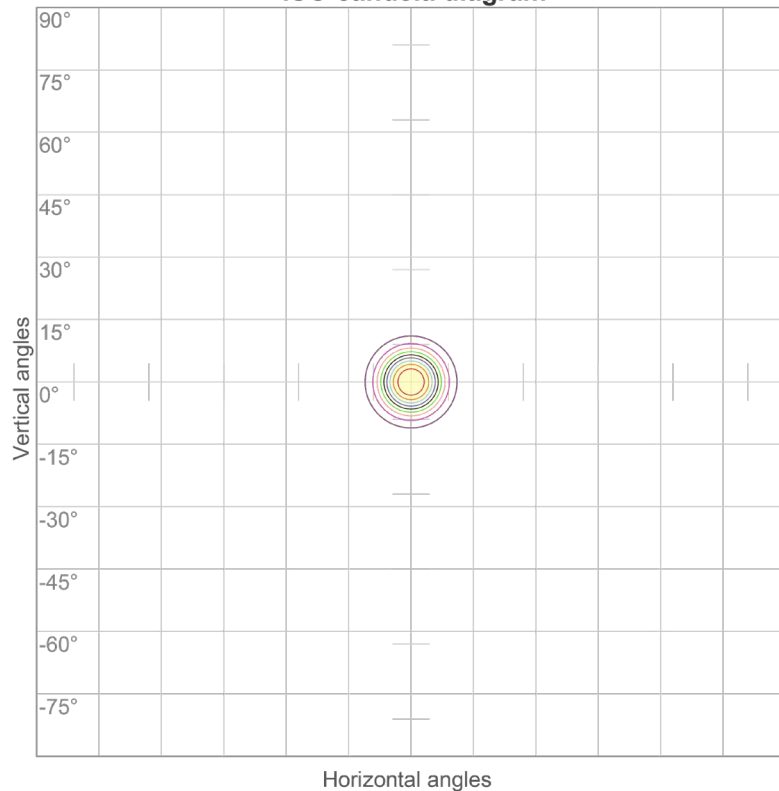
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4211	4146	3563	2348	1261	675	419	306	245	197	154	121	98	79	65	54	45	38	33	29
100%	98%	85%	56%	30%	16%	10%	7%	6%	5%	4%	3%	2%	2%	2%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.2°	43.1°	69.5°	96.9%	92.5%

Fira Ultra Flood - RGBW (5700k) ISO Candela & ISO Lux diagrams with 14° Optics



ISO candela diagram



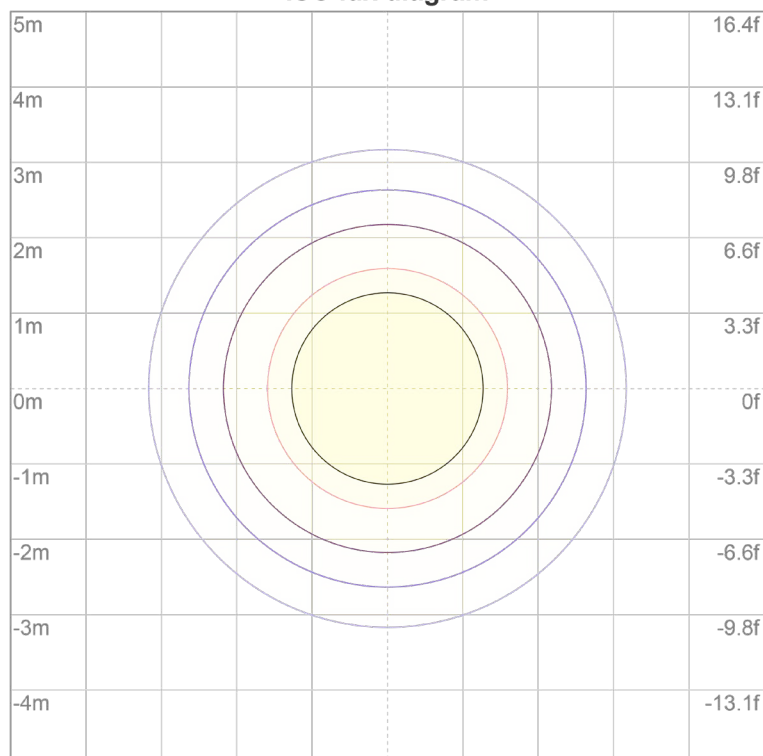
10%	1519 cd
20%	3037 cd
30%	4556 cd
40%	6075 cd
50%	7593 cd
60%	9112 cd
70%	10630 cd
80%	12149 cd
90%	13668 cd

Conditions:

Number of c-planes: 72

Candela at center: 15186 cd

ISO lux diagram



3%	4.56 lx
5%	7.59 lx
10%	15.2 lx
30%	45.6 lx
50%	75.9 lx

Conditions:

Number of c-planes: 72

Lux at center: 152 lx

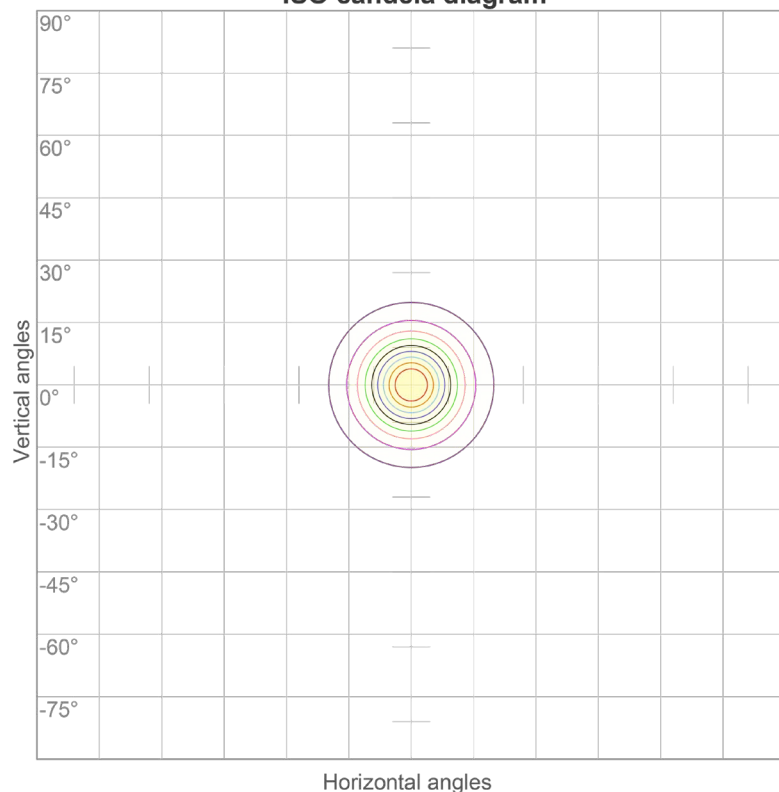
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Ultra Flood - RGBW (5700k)

ISO Candela & ISO Lux diagrams with 20° Optics



ISO candela diagram



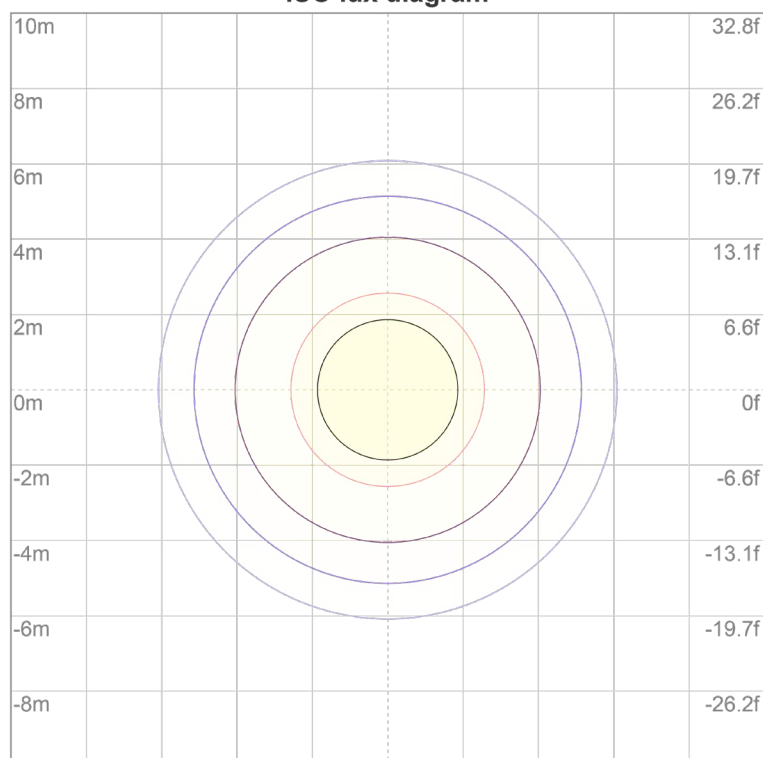
10%	593 cd
20%	1185 cd
30%	1778 cd
40%	2371 cd
50%	2963 cd
60%	3556 cd
70%	4149 cd
80%	4741 cd
90%	5334 cd

Conditions:

Number of c-planes: 72

Candela at center: 5926 cd

ISO lux diagram



3%	1.78 lx
5%	2.96 lx
10%	5.93 lx
30%	17.8 lx
50%	29.6 lx

Conditions:

Number of c-planes: 72

Lux at center: 59.3 lx

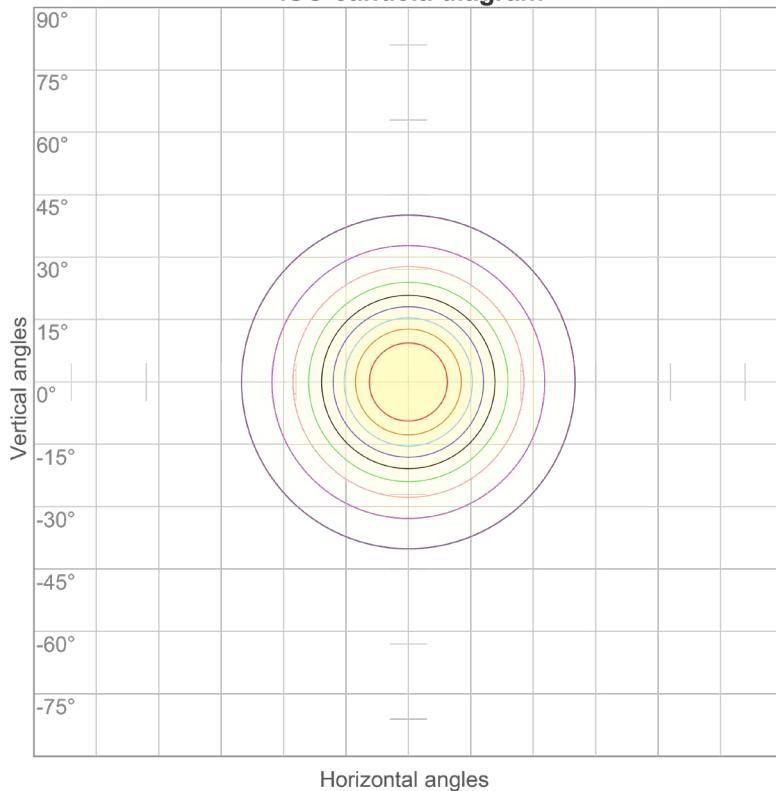
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Ultra Flood - RGBW (5700k)

ISO Candela & ISO Lux diagrams with 40° Optics



ISO candela diagram



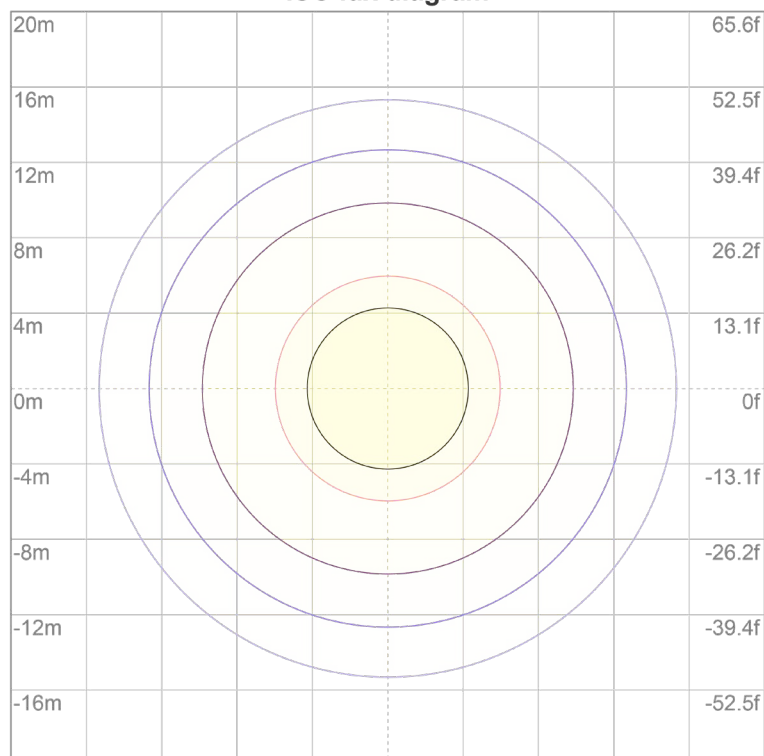
10%	160 cd
20%	319 cd
30%	479 cd
40%	639 cd
50%	798 cd
60%	958 cd
70%	1118 cd
80%	1277 cd
90%	1437 cd

Conditions:

Number of c-planes: 72

Candela at center: 1597 cd

ISO lux diagram



3%	0.479 lx
5%	0.798 lx
10%	1.60 lx
30%	4.79 lx
50%	7.98 lx

Conditions:

Number of c-planes: 72

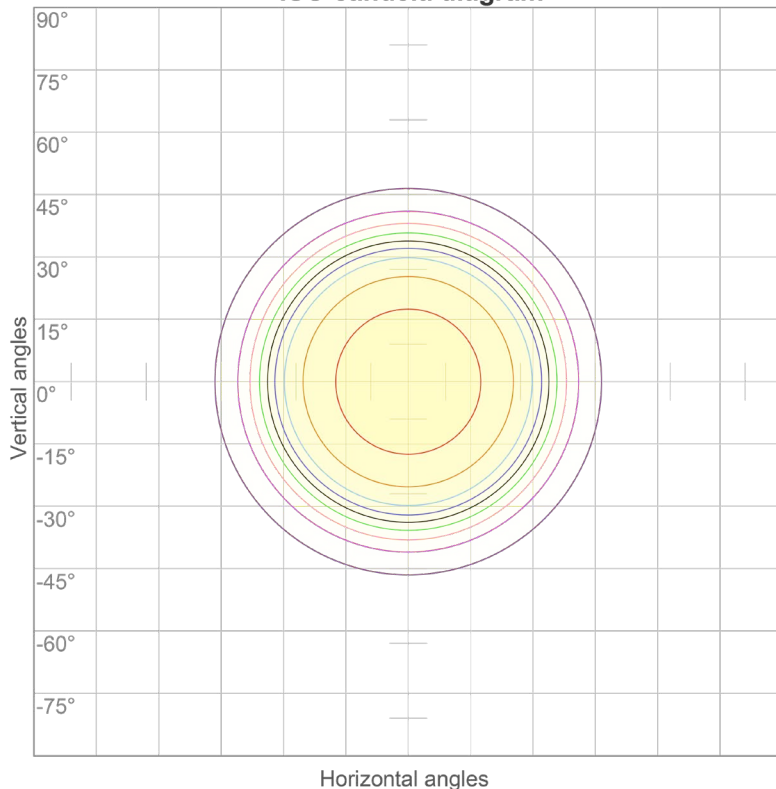
Lux at center: 16.0 lx

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

Fira Ultra Flood - RGBW (5700k) ISO Candela & ISO Lux diagrams with 80° Optics



ISO candela diagram



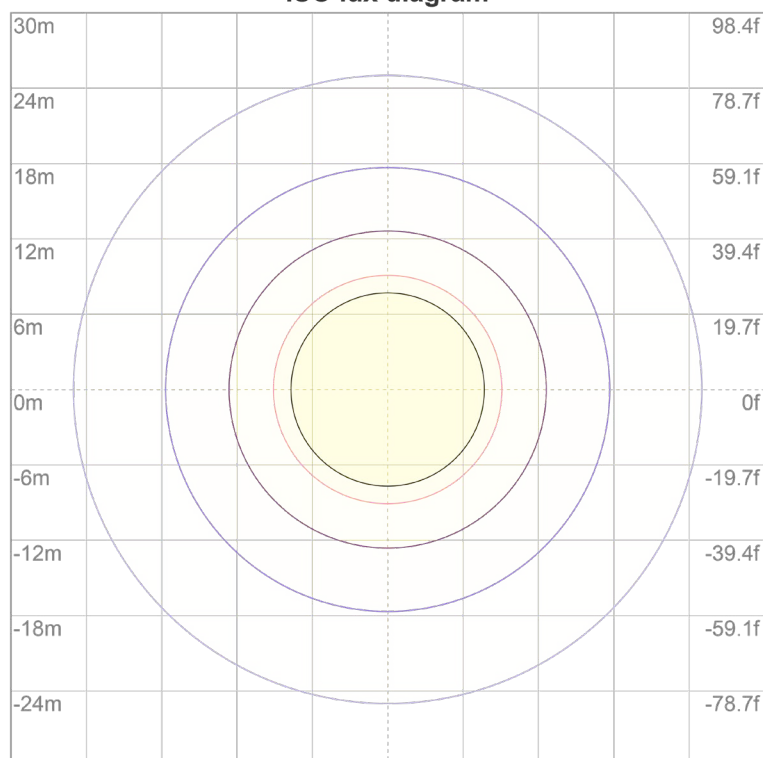
10%	88 cd
20%	176 cd
30%	264 cd
40%	352 cd
50%	440 cd
60%	528 cd
70%	616 cd
80%	704 cd
90%	793 cd

Conditions:

Number of c-planes: 72

Candela at center: 881 cd

ISO lux diagram



3%	0.264 lx
5%	0.440 lx
10%	0.881 lx
30%	2.64 lx
50%	4.40 lx

Conditions:

Number of c-planes: 72

Lux at center: 8.81 lx

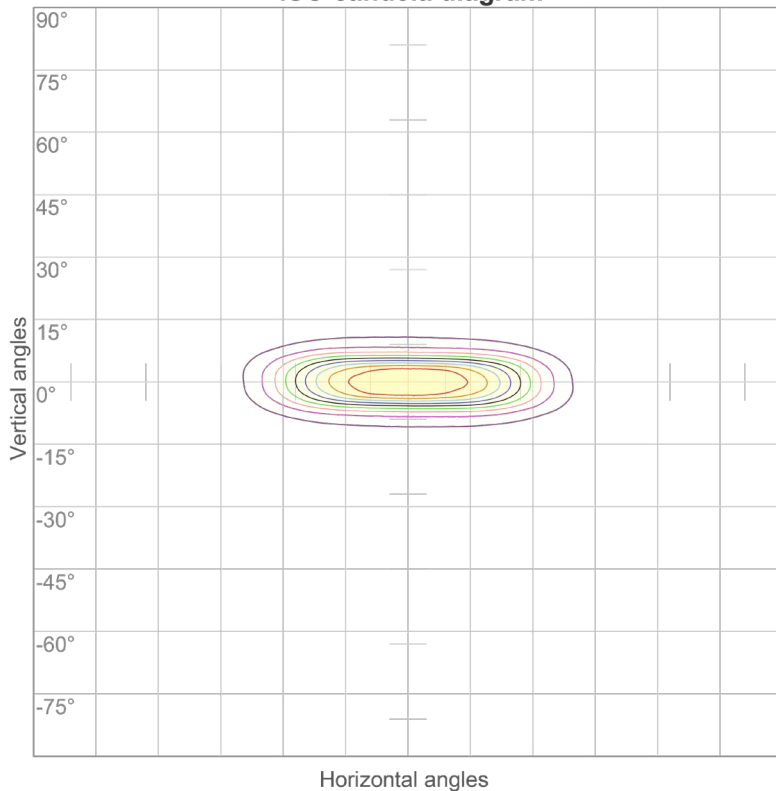
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Ultra Flood - RGBW (5700k)

ISO Candela & ISO Lux diagrams with 14x60° 60x14° Optics



ISO candela diagram



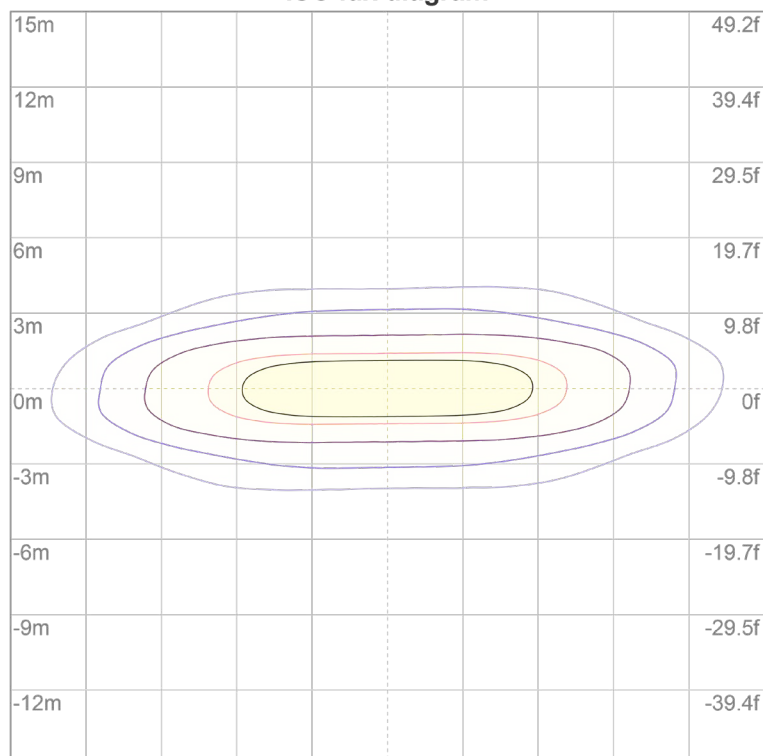
10%	421 cd
20%	842 cd
30%	1263 cd
40%	1684 cd
50%	2106 cd
60%	2527 cd
70%	2948 cd
80%	3369 cd
90%	3790 cd

Conditions:

Number of c-planes: 72

Candela at center: 4211 cd

ISO lux diagram



3%	1.26 lx
5%	2.11 lx
10%	4.21 lx
30%	12.6 lx
50%	21.1 lx

Conditions:

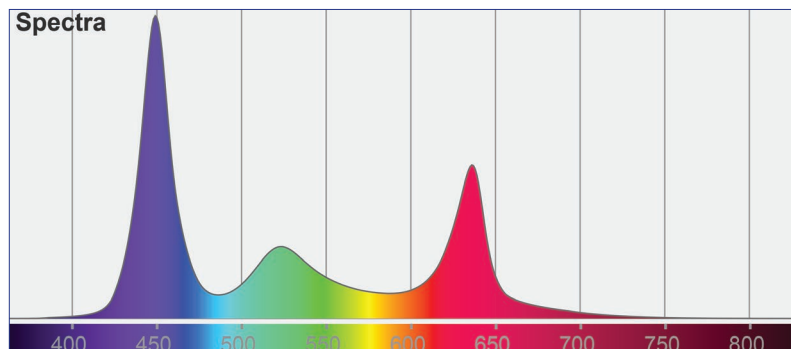
Number of c-planes: 72

Lux at center: 42.1 lx

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

Fira Ultra Flood - RGBW (5700k)

Colormetrics **RGBW**



Total Lumen Output (Native) : 1259 lm

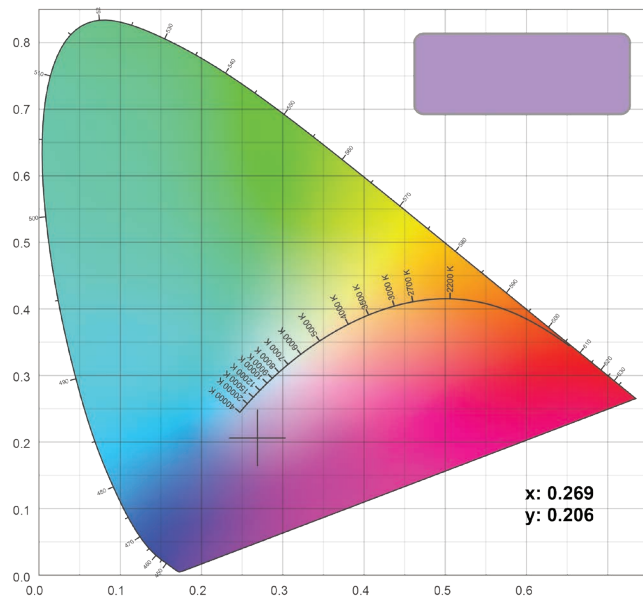
Efficacy : 42 lm/W

Voltage : 240V

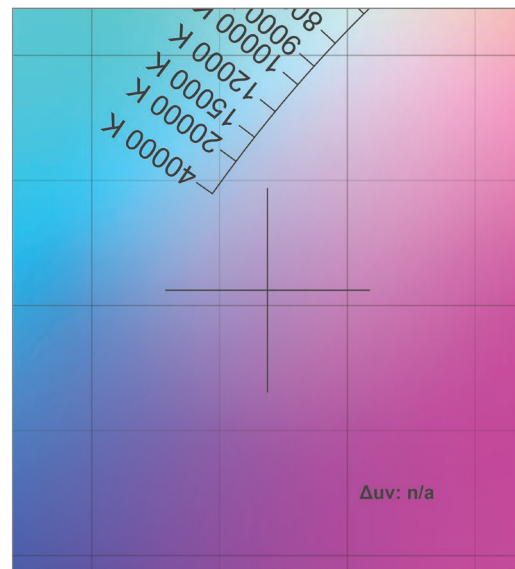
Supply Power : 30W

Supply Power Factor : 0.97

CIE 1931

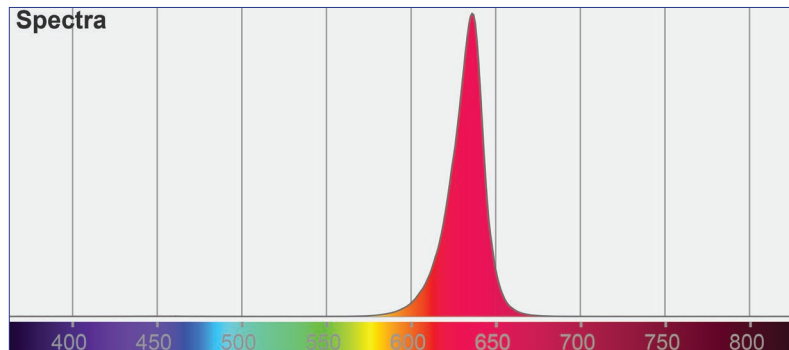


CIE 1931 Zoom



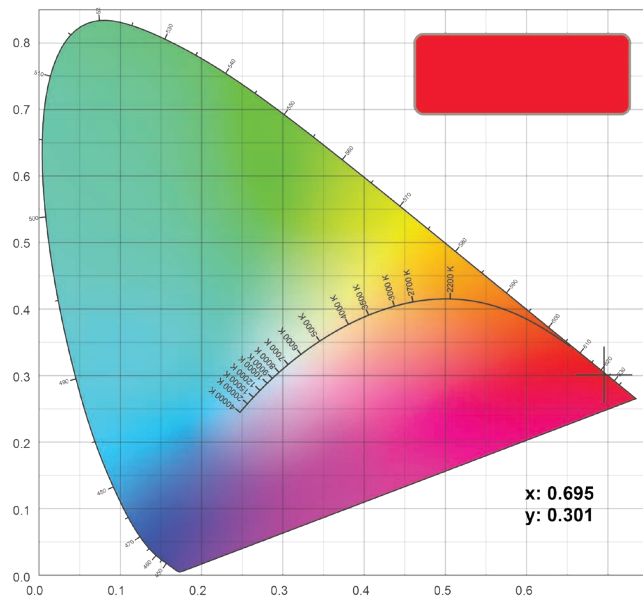
Fira Ultra Flood - RGBW (5700k)

Colormetrics **RED**

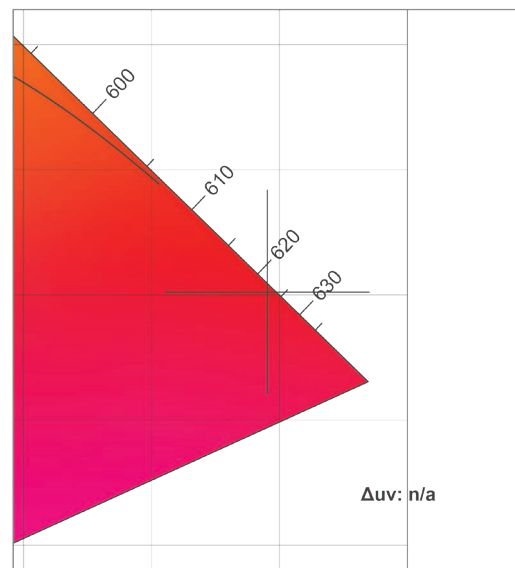


Red Lumen Output : 442 lm

CIE 1931

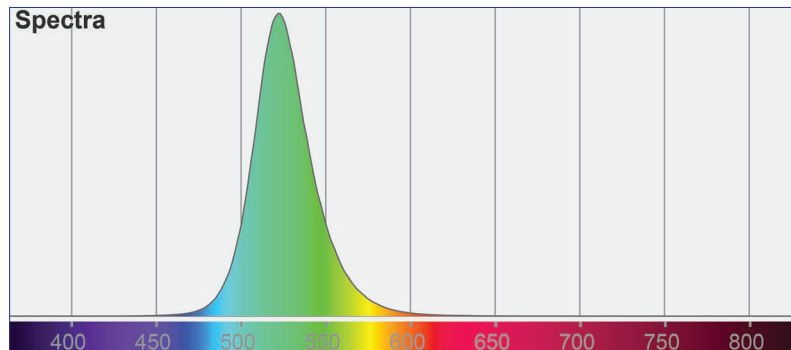


CIE 1931 Zoom



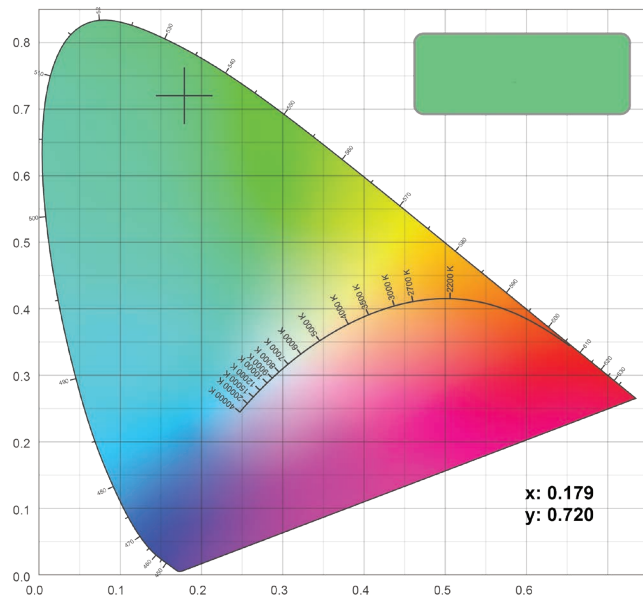
Fira Ultra Flood - RGBW (5700k)

Colormetrics **GREEN**

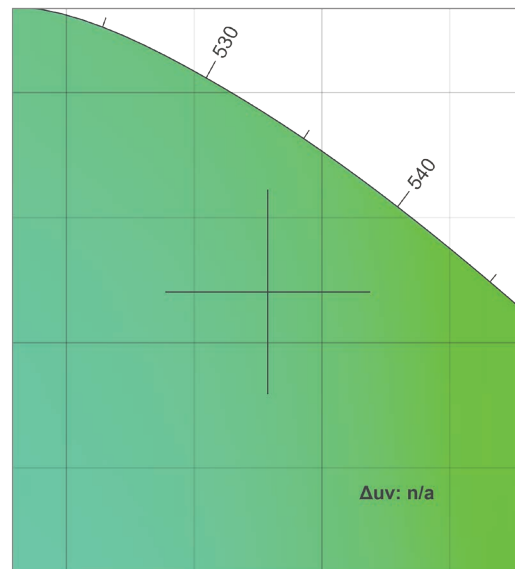


Green Lumen Output : 779 lm

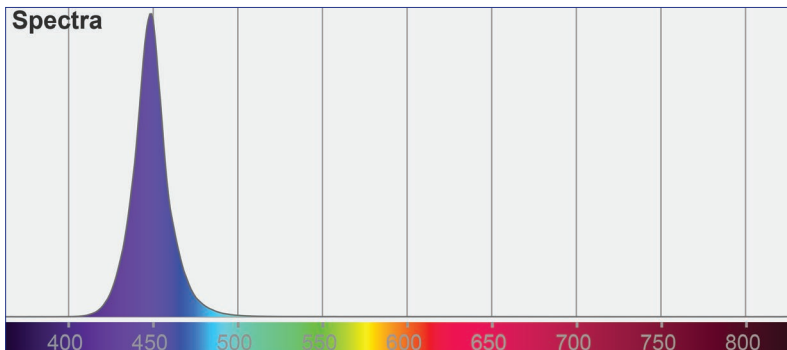
CIE 1931



CIE 1931 Zoom

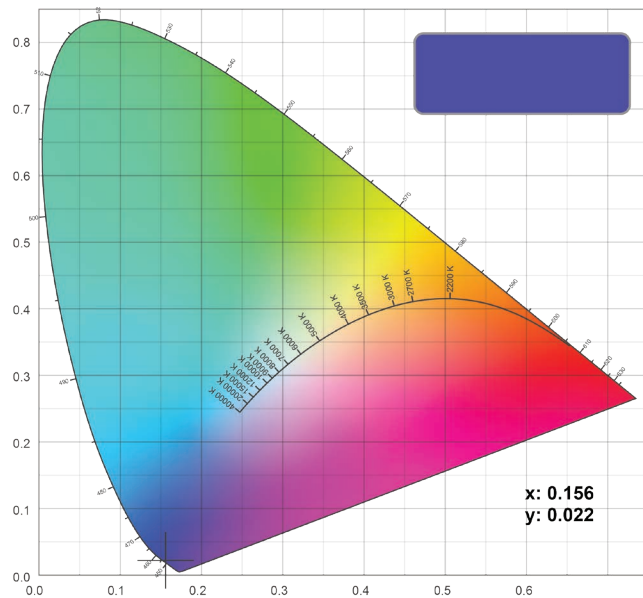


Fira Ultra Flood - RGBW (5700k) Colormetrics **BLUE**

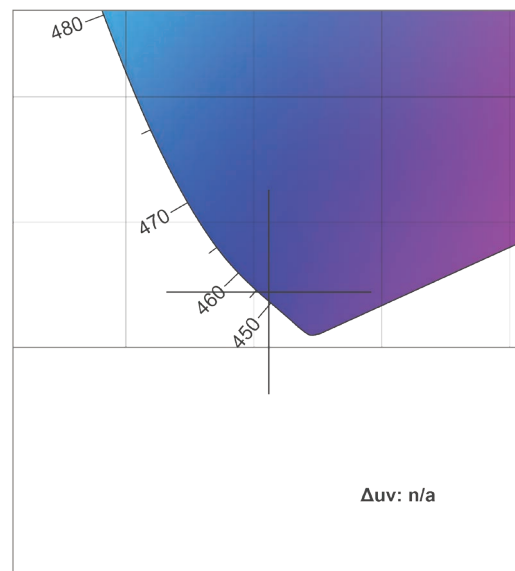


Blue Lumen Output : 141 lm

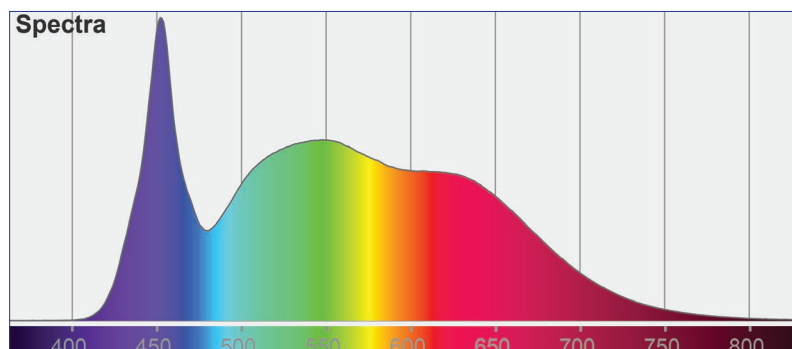
CIE 1931



CIE 1931 Zoom

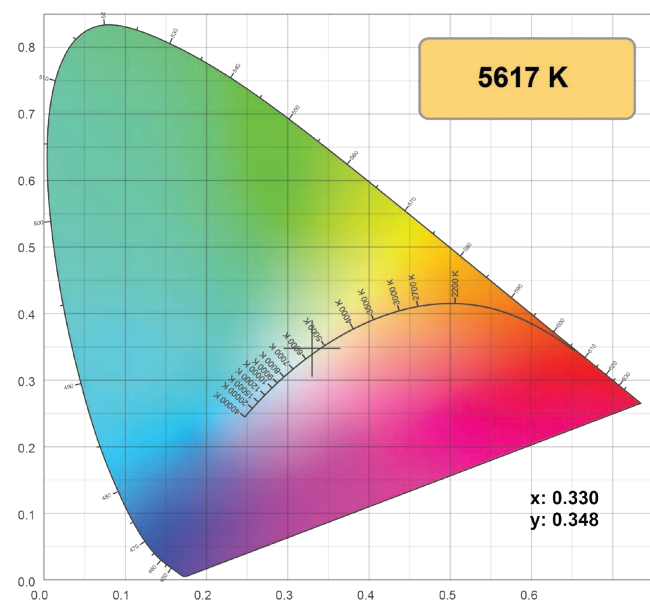


Fira Ultra Flood - RGBW (5700k) Colormetrics **WHITE 5700K**

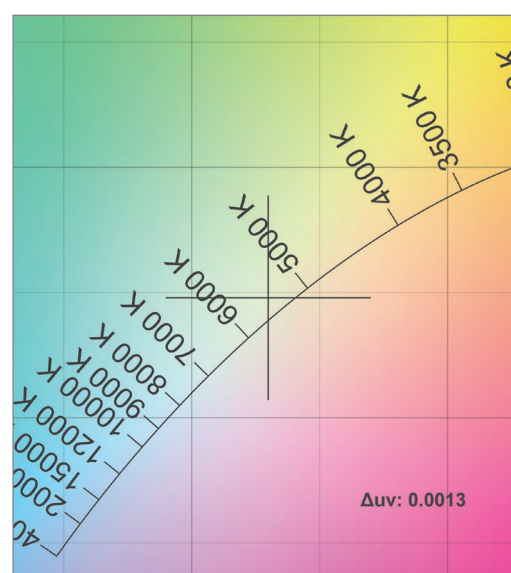


White 5700K Lumen Output : 1528 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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