

Fira Pro Flood VIVID COLOUR

COMPACT LED FLOOD FOR ARCHITECTURAL LIGHTING



Fira Pro Flood - RGBW (5700K)
12° 20° 40° 80° 12x60° 60x12°

Tested By
DW Windsor Group Laboratory
Hoddesdon
UK

Date
June 2021

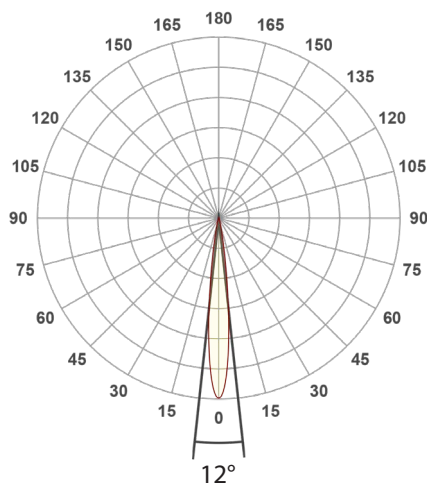
Dimensions
212mm (H) x 175mm (W) x 106mm (D) (including yoke)

Weight
4.4 kgs (9.7lbs)

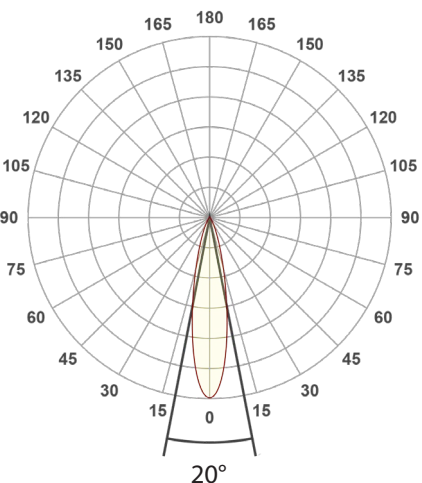
FIRA PRO FLOOD

Polar Distribution

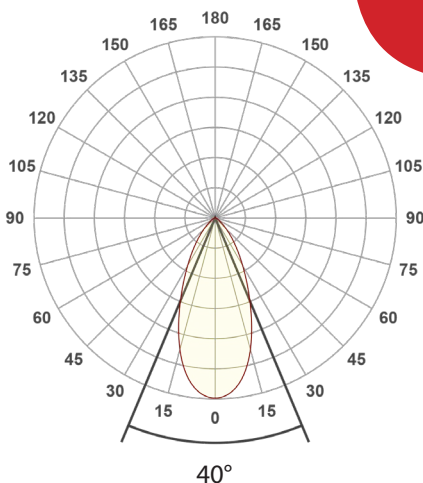
12° Conical Beam (With HBS)



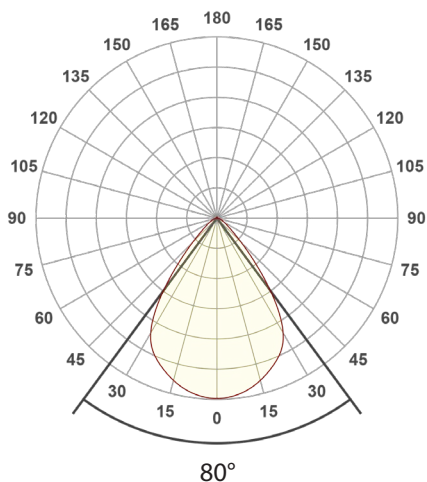
20° Conical Beam (With HBS)



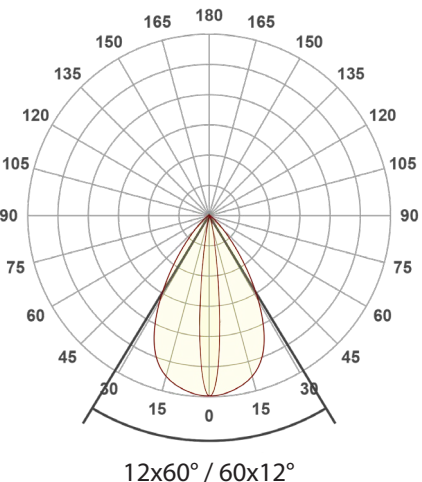
40° Conical Beam (With HBS)



80° Conical Beam (With HBS)



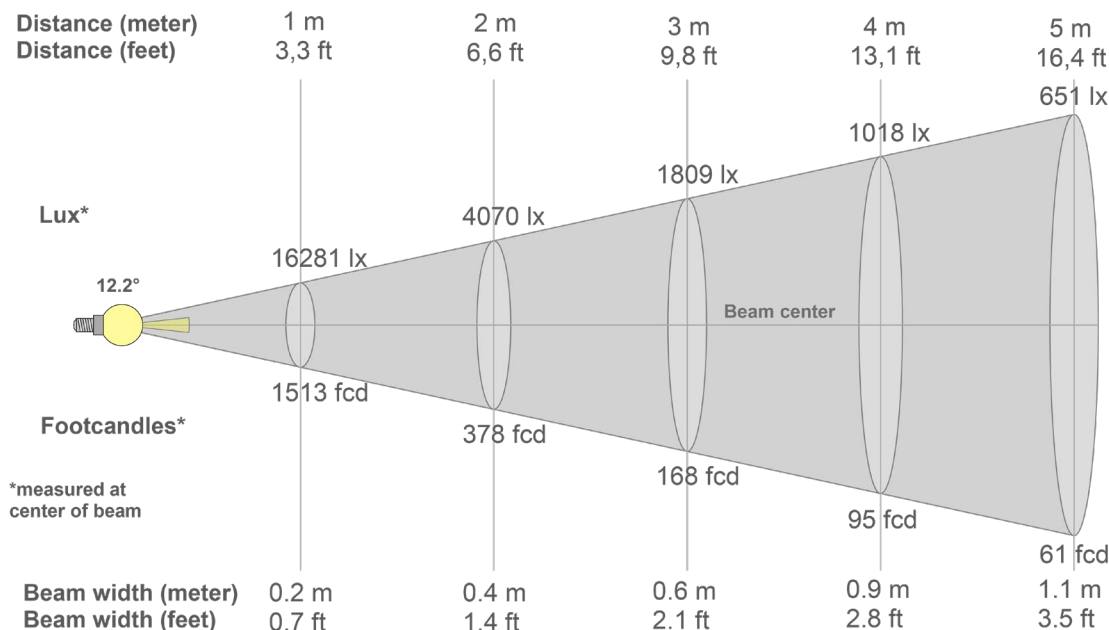
12x60° / 60x12° Elliptical Beam (With HBS)



Fira Pro Flood - RGBW (5700K)

Intensities at Distance with 12° Optics

Lumen Output : 1078 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
16281lx	4070lx	1809lx	1018lx	651lx	452lx	332lx	254lx	201lx	163lx	135lx	113lx	96lx	83lx	72lx	64lx	56lx	50lx	45lx	41lx
1512.6fc	378.1fc	168.1fc	94.5fc	60.5fc	42fc	30.9fc	23.6fc	18.7fc	15.1fc	12.5fc	10.5fc	9fc	7.7fc	6.7fc	5.9fc	5.2fc	4.7fc	4.2fc	3.8fc

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°
16.3K	16.0K	15.2K	13.9K	12.2K	10.4K	8.4K	6.5K	4.9K	3.5K	2.5K	1.8K	1.4K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K
100%	98%	93%	85%	75%	64%	51%	40%	30%	22%	16%	11%	8%	7%	5%	4%	4%	3%	2%	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°
16.3K	16.0K	15.2K	13.9K	12.2K	10.4K	8.4K	6.5K	4.9K	3.5K	2.5K	1.8K	1.4K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K
100%	98%	93%	85%	75%	64%	51%	40%	30%	22%	16%	11%	8%	7%	5%	4%	4%	3%	2%	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°
16.3K	16.0K	15.2K	13.9K	12.2K	10.4K	8.4K	6.5K	4.9K	3.5K	2.5K	1.8K	1.4K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K
100%	98%	93%	85%	75%	64%	51%	40%	30%	22%	16%	11%	8%	7%	5%	4%	4%	3%	2%	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°
16.3K	16.0K	15.2K	13.9K	12.2K	10.4K	8.4K	6.5K	4.9K	3.5K	2.5K	1.8K	1.4K	1.1K	0.9K	0.7K	0.6K	0.5K	0.4K	0.3K
100%	98%	93%	85%	75%	64%	51%	40%	30%	22%	16%	11%	8%	7%	5%	4%	4%	3%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12.2°	22.8°	36°	97.3%	95.2%

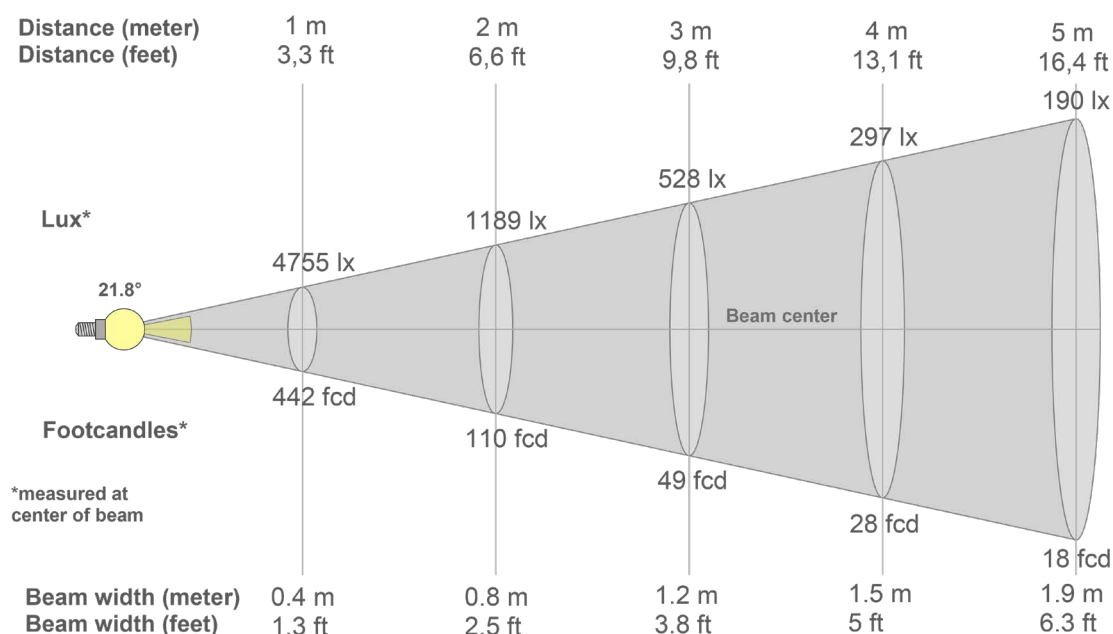
PULSAR

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Fira Pro Flood - RGBW (5700K)

Intensities at Distance with 20° Optics

Lumen Output : 1077 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
4755lx	1189lx	528lx	297lx	190lx	132lx	97lx	74lx	59lx	48lx	39lx	33lx	28lx	24lx	21lx	19lx	16lx	15lx	13lx	12lx
441.7fc	110.4fc	49.1fc	27.6fc	17.7fc	12.3fc	9fc	6.9fc	5.5fc	4.4fc	3.7fc	3.1fc	2.6fc	2.3fc	2fc	1.7fc	1.5fc	1.4fc	1.2fc	1.1fc

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°
4755	4637	4303	3808	3228	2633	2083	1611	1226	926	699	529	403	309	240	188	148	119	97	81
100%	98%	91%	80%	68%	55%	44%	34%	26%	19%	15%	11%	8%	7%	5%	4%	3%	3%	2%	2%

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°
4755	4637	4303	3808	3228	2633	2083	1611	1226	926	699	529	403	309	240	188	148	119	97	81
100%	98%	91%	80%	68%	55%	44%	34%	26%	19%	15%	11%	8%	7%	5%	4%	3%	3%	2%	2%

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°
4755	4637	4303	3808	3228	2633	2083	1611	1226	926	699	529	403	309	240	188	148	119	97	81
100%	98%	91%	80%	68%	55%	44%	34%	26%	19%	15%	11%	8%	7%	5%	4%	3%	3%	2%	2%

Intensities in 270° c-plane

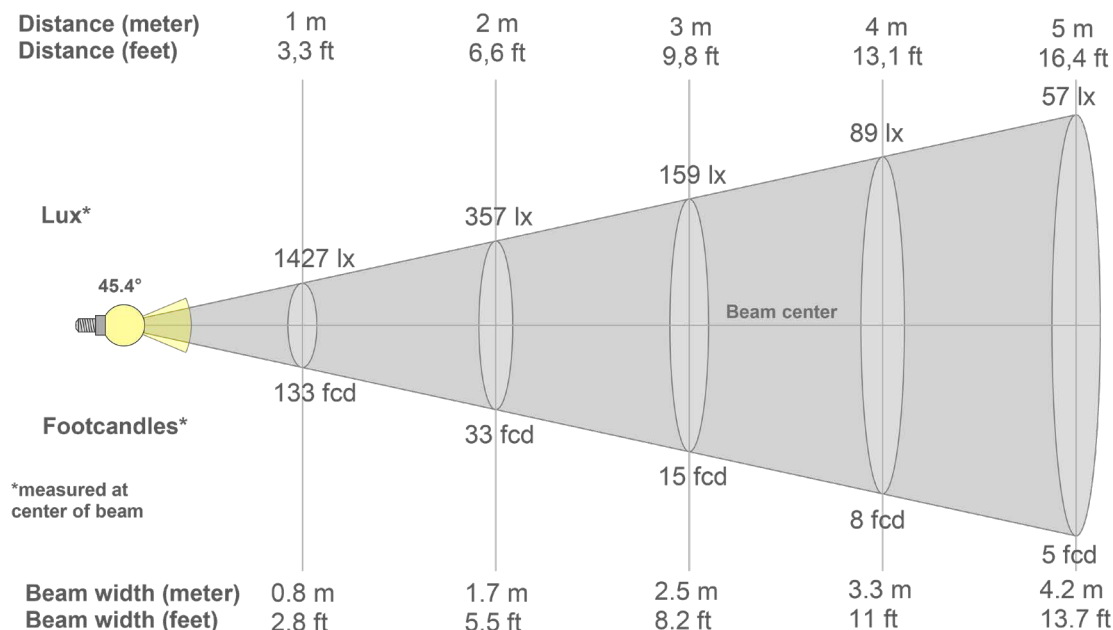
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4755	4637	4303	3808	3228	2633	2083	1611	1226	926	699	529	403	309	240	188	148	119	97	81
100%	98%	91%	80%	68%	55%	44%	34%	26%	19%	15%	11%	8%	7%	5%	4%	3%	3%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.8°	45.6°	68°	95.3%	91.5%

Fira Pro Flood - RGBW (5700K)

Intensities at Distance with 40° Optics

Lumen Output : 1071 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
1427lx	357lx	159lx	89lx	57lx	40lx	29lx	22lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx	4lx
132.6fc	33.1fc	14.7fc	8.3fc	5.3fc	3.7fc	2.7fc	2.1fc	1.6fc	1.3fc	1.1fc	0.9fc	0.8fc	0.7fc	0.6fc	0.5fc	0.5fc	0.4fc	0.4fc	0.3fc

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°
1427	1421	1403	1372	1329	1272	1203	1122	1031	936	839	745	657	575	502	436	377	325	278	237
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	52%	46%	40%	35%	31%	26%	23%	20%	17%

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°
1427	1421	1403	1372	1329	1272	1203	1122	1031	936	839	745	657	575	502	436	377	325	278	237
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	52%	46%	40%	35%	31%	26%	23%	20%	17%

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°
1427	1421	1403	1372	1329	1272	1203	1122	1031	936	839	745	657	575	502	436	377	325	278	237
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	52%	46%	40%	35%	31%	26%	23%	20%	17%

Intensities in 270° c-plane

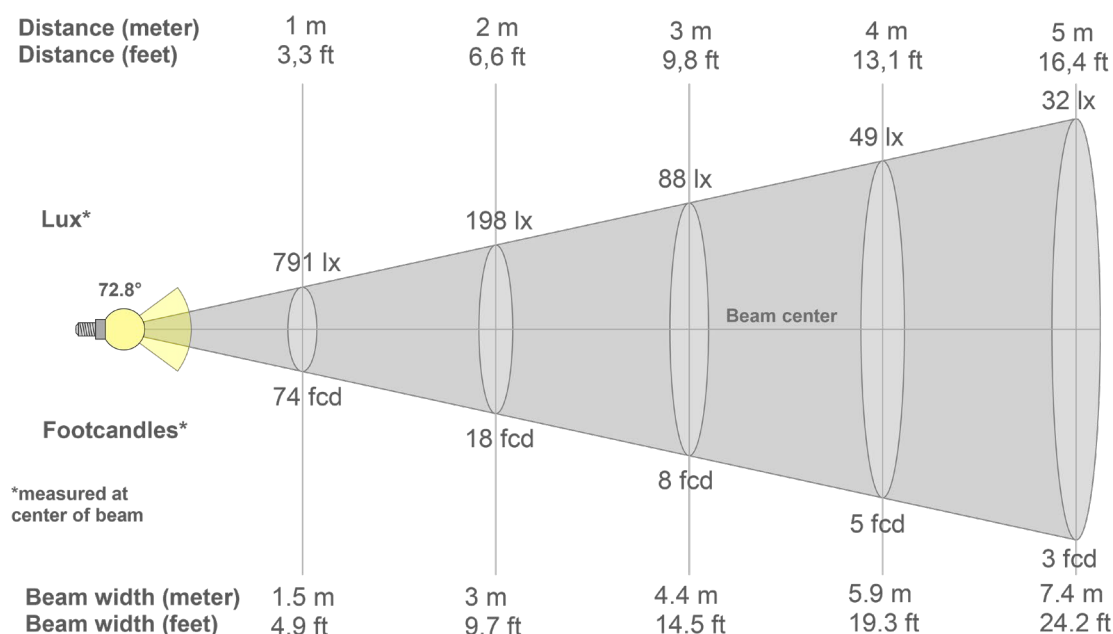
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1427	1421	1403	1372	1329	1272	1203	1122	1031	936	839	745	657	575	502	436	377	325	278	237
100%	100%	98%	96%	93%	89%	84%	79%	72%	66%	59%	52%	46%	40%	35%	31%	26%	23%	20%	17%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45.4°	87.3°	116.2°	96.0%	88.3%

Fira Pro Flood - RGBW (5700K)

Intensities at Distance with 80° Optics

Lumen Output : 1069 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
791lx	198lx	88lx	49lx	32lx	22lx	16lx	12lx	10lx	8lx	7lx	5lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx
73.5fc	18.4fc	8.2fc	4.6fc	2.9fc	2fc	1.5fc	1.1fc	0.9fc	0.7fc	0.6fc	0.5fc	0.4fc	0.4fc	0.3fc	0.3fc	0.3fc	0.2fc	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°
791	786	767	738	701	656	579	444	277	154	87	55	38	27	18	11	6	2	0	0
100%	99%	97%	93%	89%	83%	73%	56%	35%	20%	11%	7%	5%	3%	2%	1%	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°
791	786	767	738	701	656	579	444	277	154	87	55	38	27	18	11	6	2	0	0
100%	99%	97%	93%	89%	83%	73%	56%	35%	20%	11%	7%	5%	3%	2%	1%	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°
791	786	767	738	701	656	579	444	277	154	87	55	38	27	18	11	6	2	0	0
100%	99%	97%	93%	89%	83%	73%	56%	35%	20%	11%	7%	5%	3%	2%	1%	1%	0%	0%	0%

Intensities in 270° c-plane

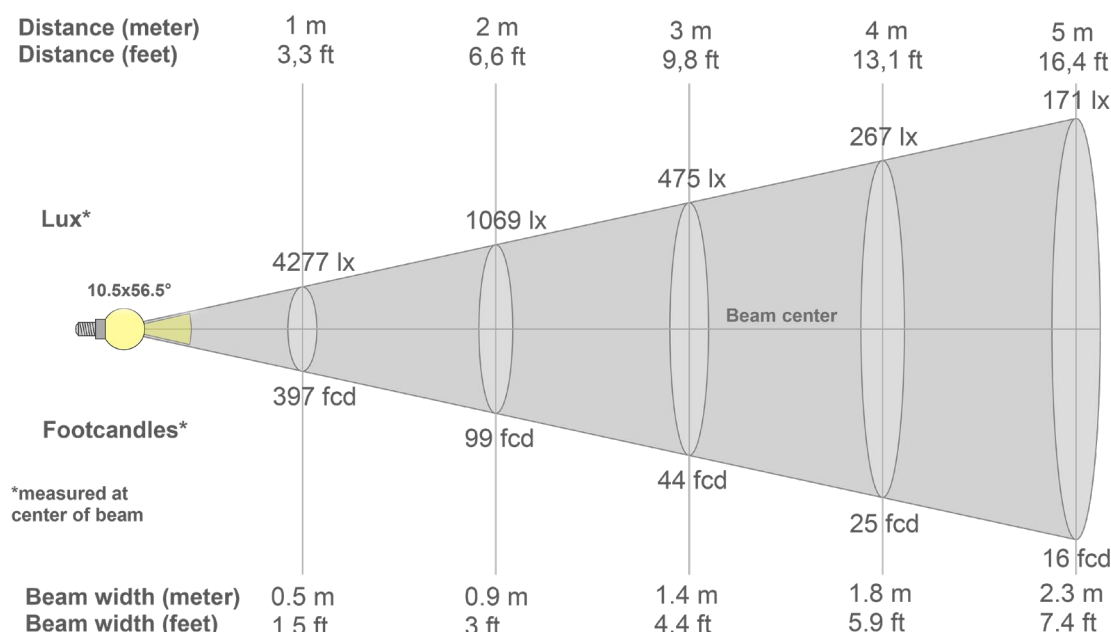
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
791	786	767	738	701	656	579	444	277	154	87	55	38	27	18	11	6	2	0	0
100%	99%	97%	93%	89%	83%	73%	56%	35%	20%	11%	7%	5%	3%	2%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72.8°	102°	138.2°	95.1%	86.2%

Fira Pro Flood - RGBW (5700K)

Intensities at Distance with 12x60° 60x12° Optics

Lumen Output : 1054 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
4277lx	1069lx	475lx	267lx	171lx	119lx	87lx	67lx	53lx	43lx	35lx	30lx	25lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
397.3fc	99.3fc	44.1fc	24.8fc	15.9fc	11fc	8.1fc	6.2fc	4.9fc	4fc	3.3fc	2.8fc	2.4fc	2fc	1.8fc	1.6fc	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°
4277	4011	3980	3933	3875	3808	3730	3637	3520	3369	3180	2947	2671	2362	2041	1721	1416	1135	886	675
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°
4277	4229	3133	1885	1018	598	406	289	203	145	108	84	68	55	45	39	33	29	26	22
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°
4277	4011	3980	3933	3875	3808	3730	3637	3520	3369	3180	2947	2671	2362	2041	1721	1416	1135	886	675
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°
4277	4229	3133	1885	1018	598	406	289	203	145	108	84	68	55	45	39	33	29	26	22
100%	99%	73%	44%	24%	14%	9%	7%	5%	3%	3%	2%	2%	1%	1%	1%	1%	1%	1%	1%

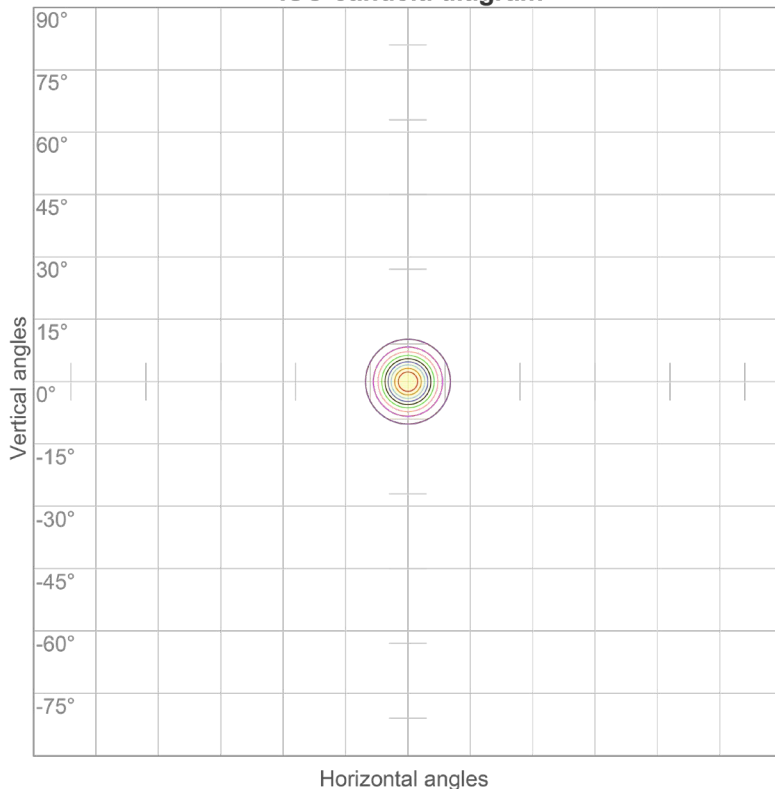
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.5°	45.7°	66.1°	97.5%	94.0%

Fira Pro Flood - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 12° Optics



ISO candela diagram



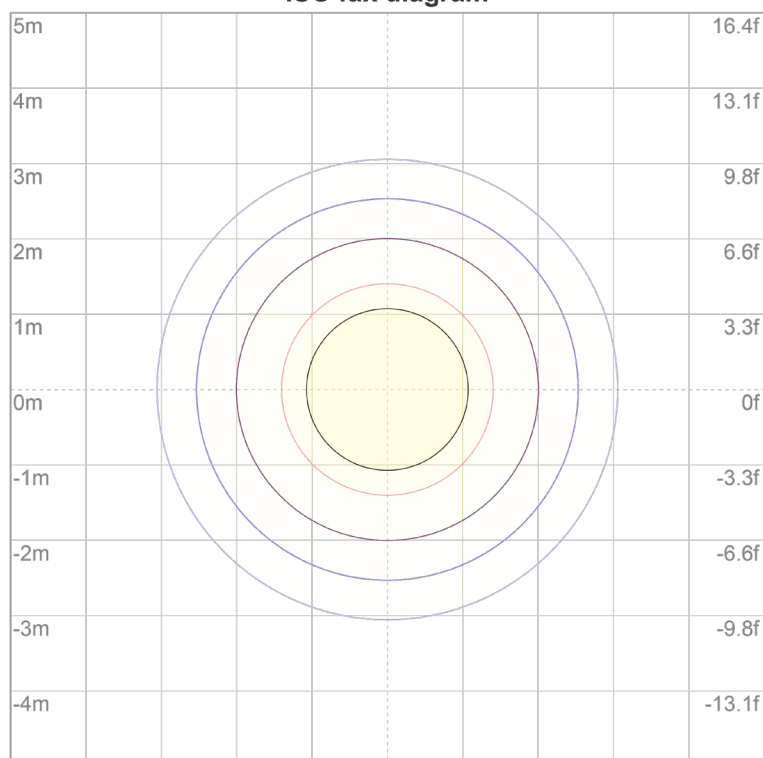
10%	1628 cd
20%	3256 cd
30%	4884 cd
40%	6512 cd
50%	8141 cd
60%	9769 cd
70%	11397 cd
80%	13025 cd
90%	14653 cd

Conditions:

Number of c-planes: 72

Candela at center: 16281 cd

ISO lux diagram



3%	4.88 lx
5%	8.14 lx
10%	16.3 lx
30%	48.8 lx
50%	81.4 lx

Conditions:

Number of c-planes: 72

Lux at center: 163 lx

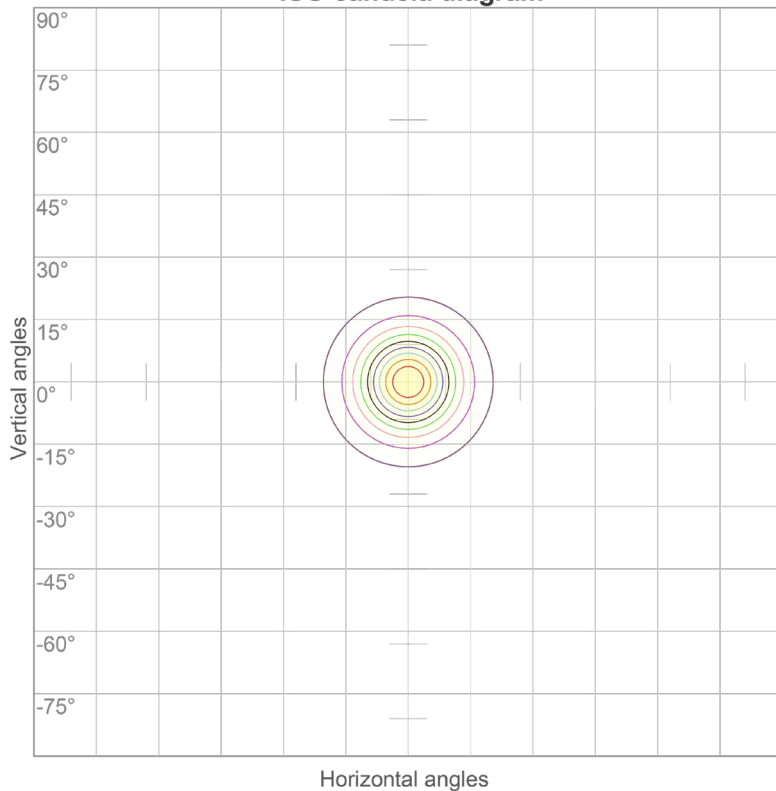
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Pro Flood - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 20° Optics



ISO candela diagram



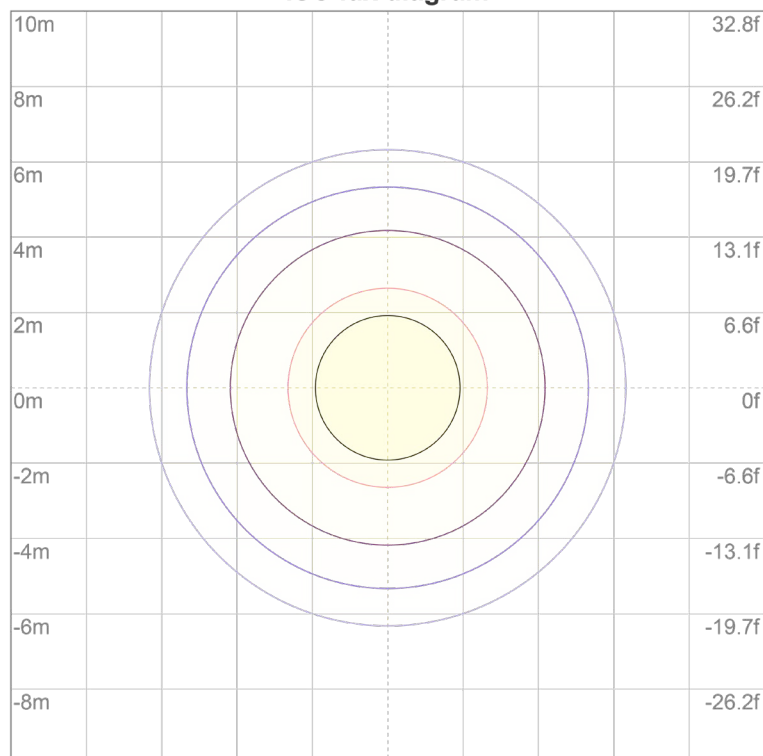
10%	475 cd
20%	951 cd
30%	1426 cd
40%	1902 cd
50%	2377 cd
60%	2853 cd
70%	3328 cd
80%	3804 cd
90%	4279 cd

Conditions:

Number of c-planes: 72

Candela at center: 4755 cd

ISO lux diagram



3%	1.43 lx
5%	2.38 lx
10%	4.75 lx
30%	14.3 lx
50%	23.8 lx

Conditions:

Number of c-planes: 72

Lux at center: 47.5 lx

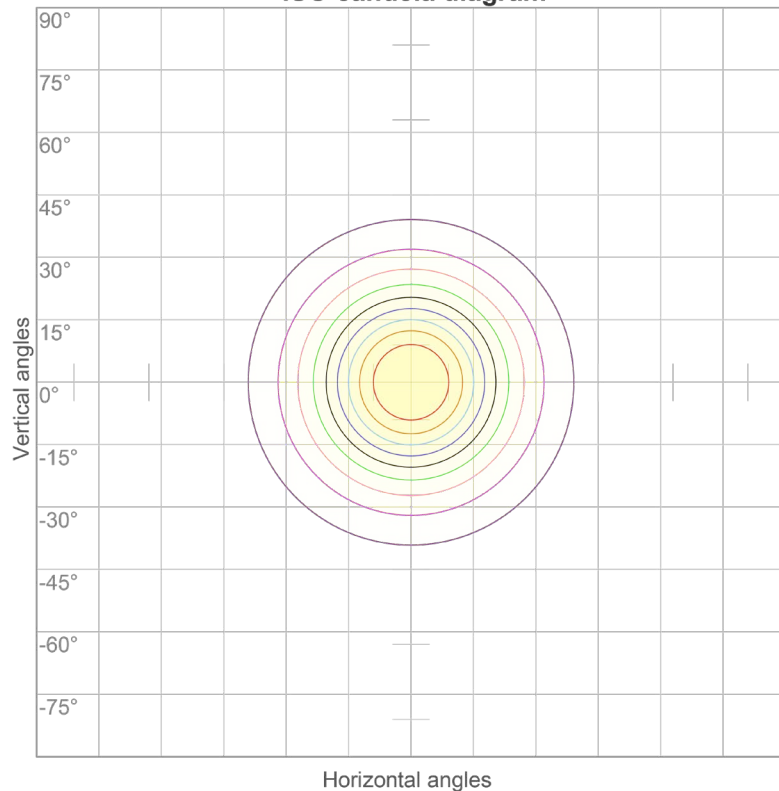
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Pro Flood - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 40° Optics



ISO candela diagram



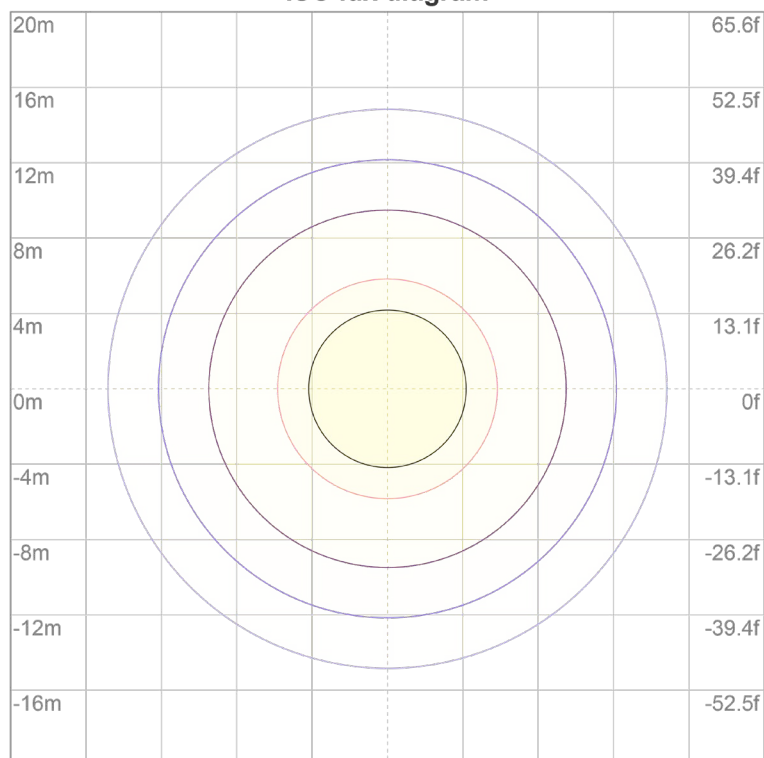
10%	143 cd
20%	285 cd
30%	428 cd
40%	571 cd
50%	713 cd
60%	856 cd
70%	999 cd
80%	1142 cd
90%	1284 cd

Conditions:

Number of c-planes: 72

Candela at center: 1427 cd

ISO lux diagram



3%	0.428 lx
5%	0.713 lx
10%	1.43 lx
30%	4.28 lx
50%	7.13 lx

Conditions:

Number of c-planes: 72

Lux at center: 14.3 lx

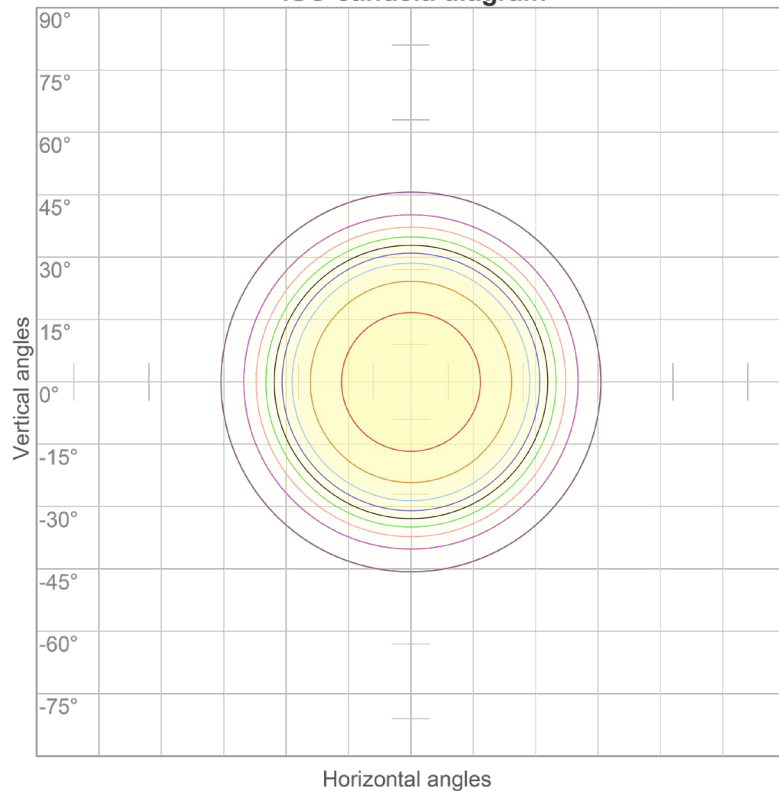
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Pro Flood - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 80° Optics



ISO candela diagram



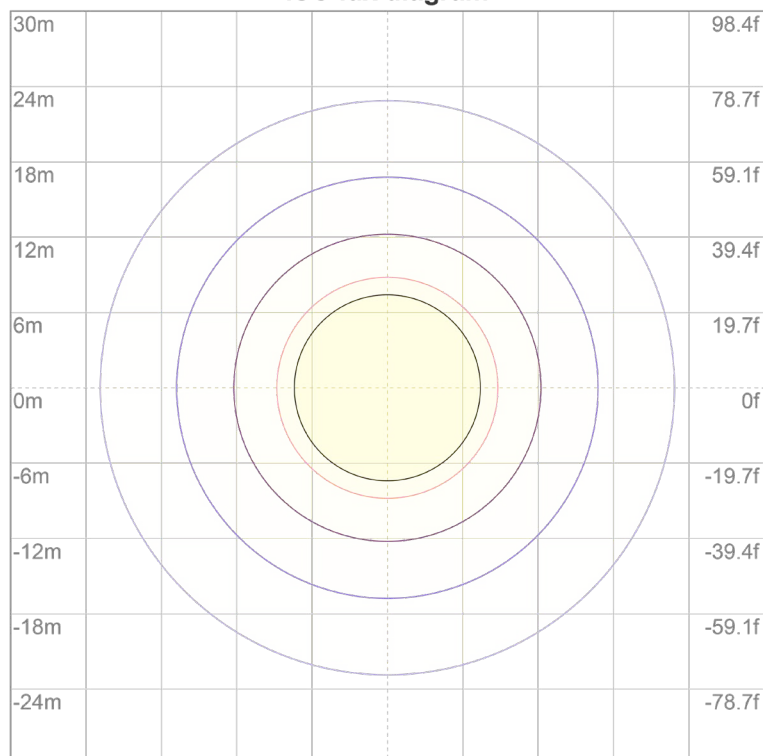
10%	79 cd
20%	158 cd
30%	237 cd
40%	317 cd
50%	396 cd
60%	475 cd
70%	554 cd
80%	633 cd
90%	712 cd

Conditions:

Number of c-planes: 72

Candela at center: 791 cd

ISO lux diagram



3%	0.237 lx
5%	0.396 lx
10%	0.791 lx
30%	2.37 lx
50%	3.96 lx

Conditions:

Number of c-planes: 72

Lux at center: 7.91 lx

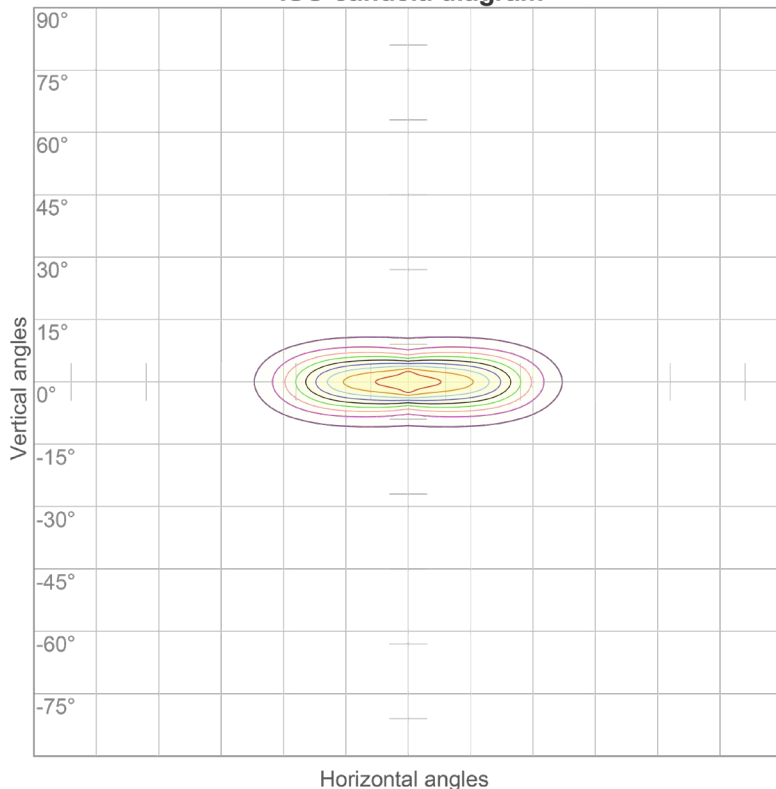
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Pro Flood - RGBW (5700K)

ISO Candela & ISO Lux diagrams with 12x60° 60x12° Optics



ISO candela diagram



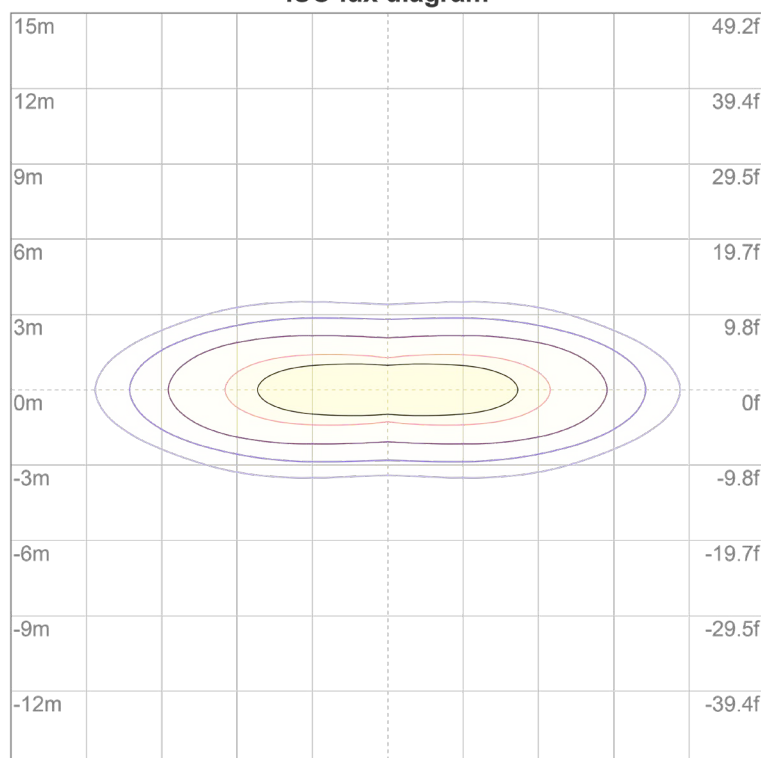
10%	428 cd
20%	855 cd
30%	1283 cd
40%	1711 cd
50%	2138 cd
60%	2566 cd
70%	2994 cd
80%	3421 cd
90%	3849 cd

Conditions:

Number of c-planes: 72

Candela at center: 4277 cd

ISO lux diagram



3%	1.28 lx
5%	2.14 lx
10%	4.28 lx
30%	12.8 lx
50%	21.4 lx

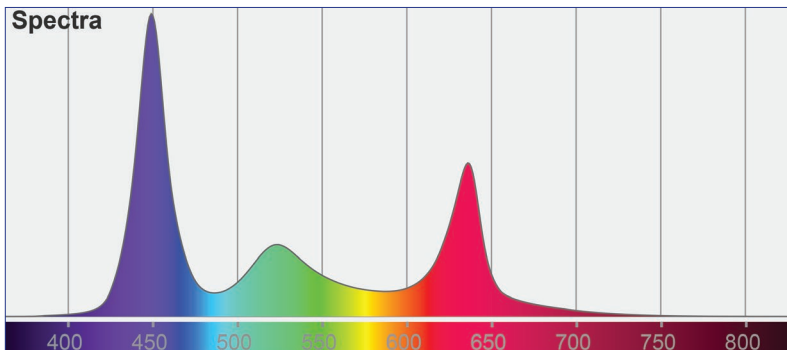
Conditions:

Number of c-planes: 72

Lux at center: 42.8 lx

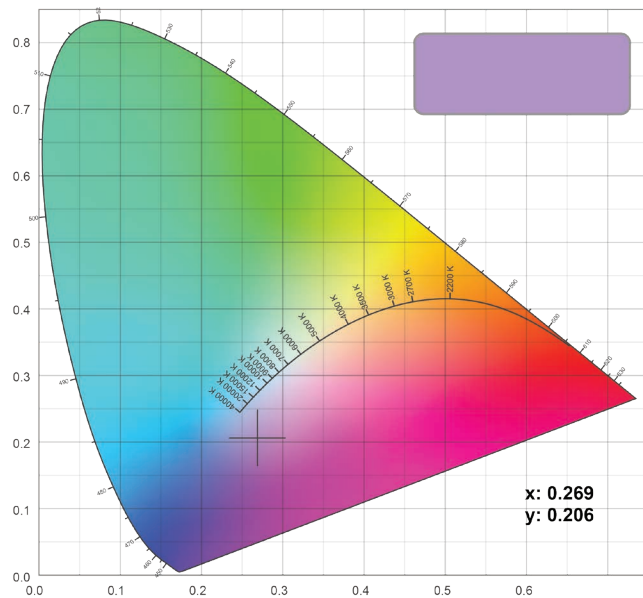
*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Fira Pro Flood - RGBW (5700K) Colormetrics RGBW

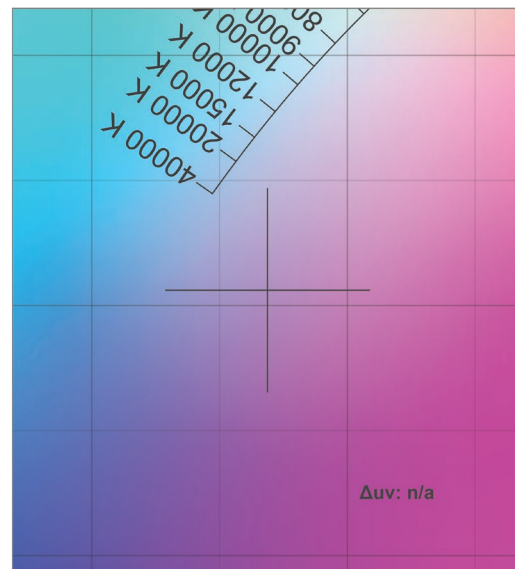


Total Lumen Output (Native) : 1078 lm
Efficacy : 36 lm/W
Voltage : 240V
Supply Power : 30W
Supply Power Factor : 0.97

CIE 1931

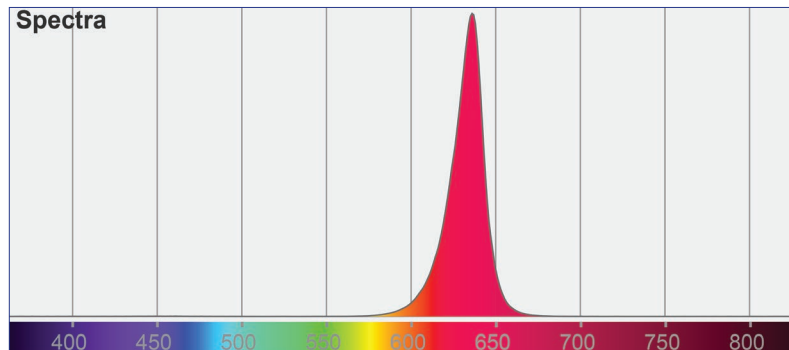


CIE 1931 Zoom



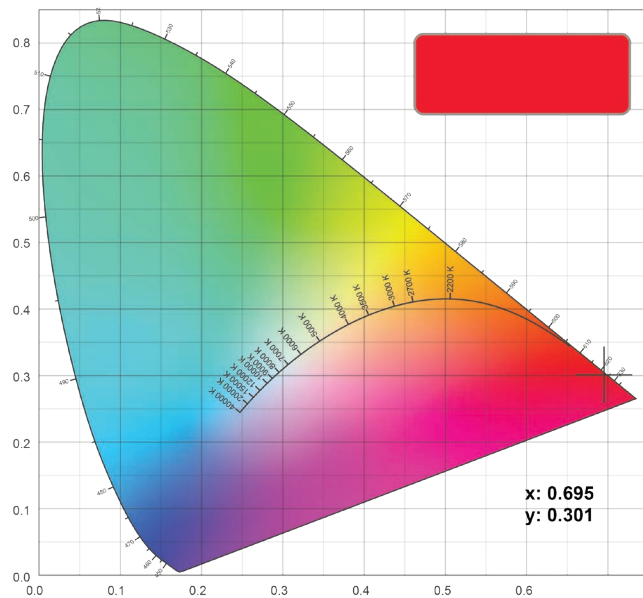
Fira Pro Flood - RGBW (5700K)

Colormetrics **RED**

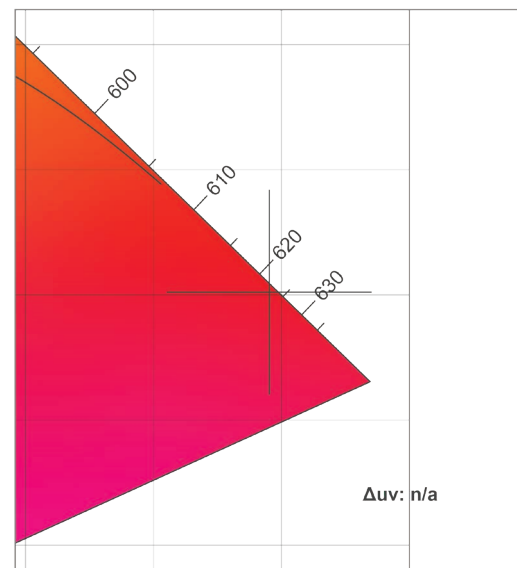


Red Lumen Output : 181 lm

CIE 1931

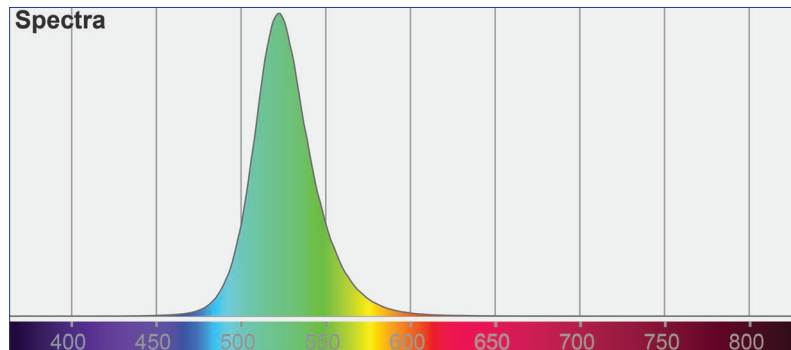


CIE 1931 Zoom



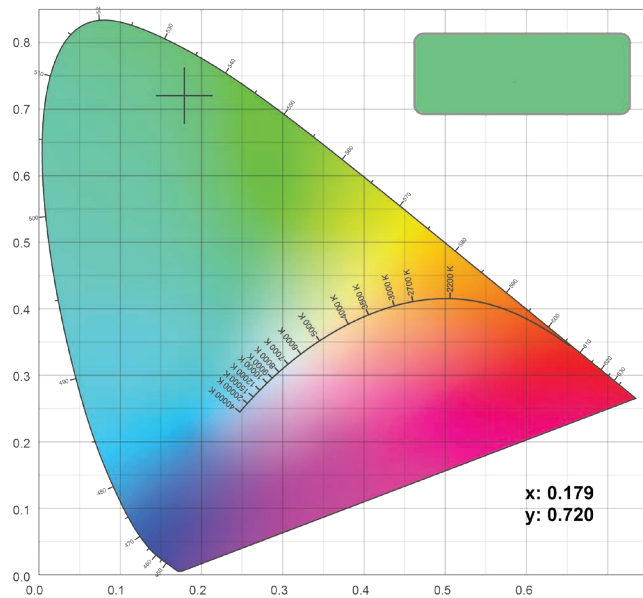
Fira Pro Flood - RGBW (5700K)

Colormetrics **GREEN**

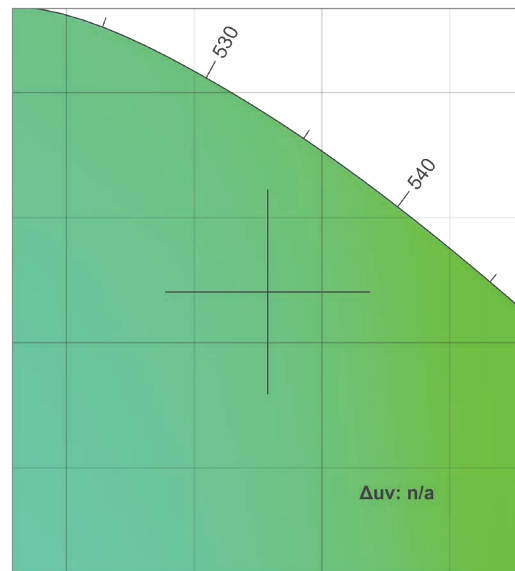


Green Lumen Output : 314 lm

CIE 1931

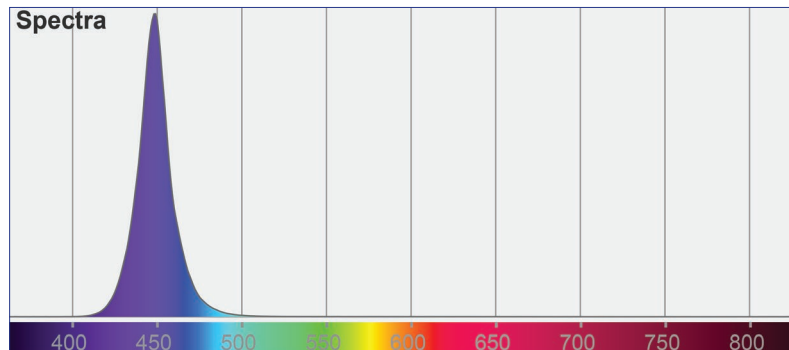


CIE 1931 Zoom



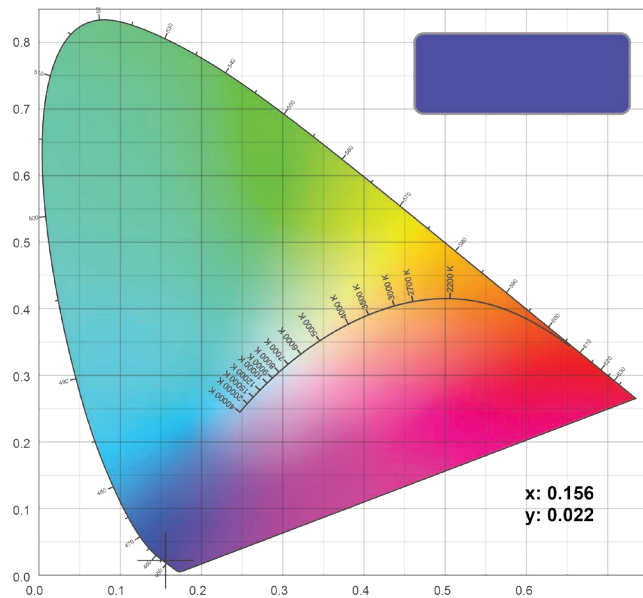
Fira Pro Flood - RGBW (5700K)

Colormetrics **BLUE**

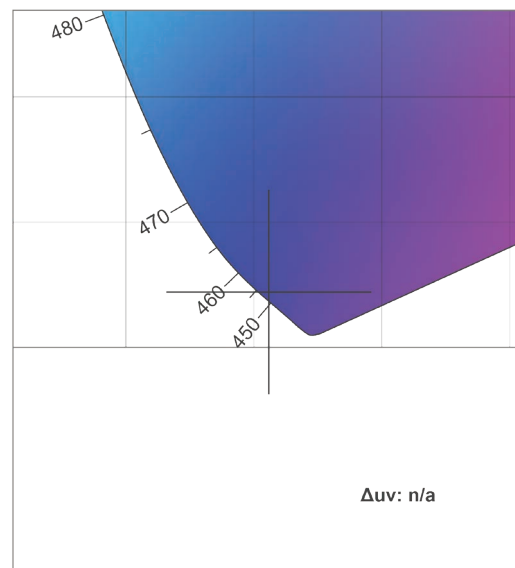


Blue Lumen Output : 62 lm

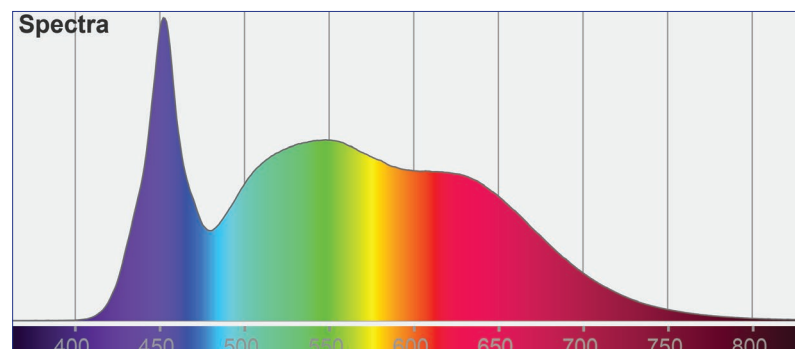
CIE 1931



CIE 1931 Zoom

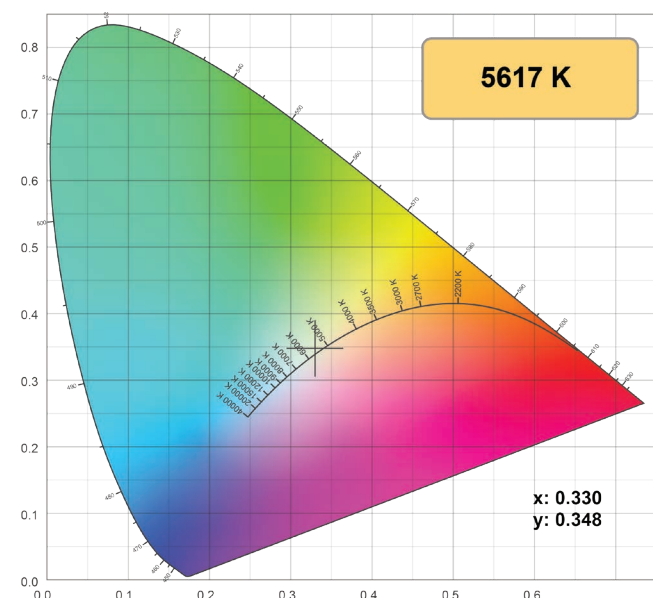


Fira Pro Flood - RGBW (5700K) Colormetrics **WHITE 5700K**

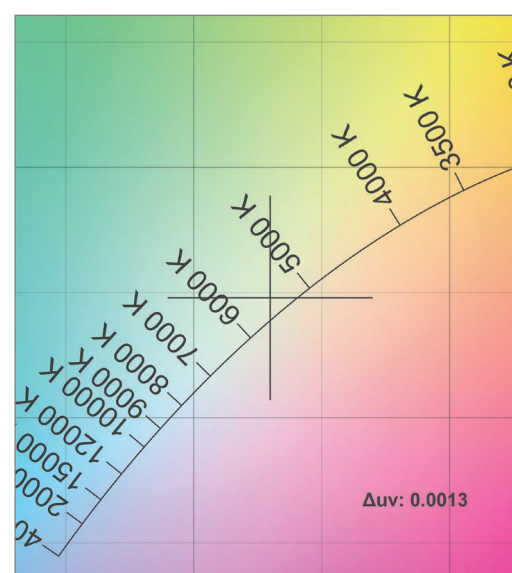


White 5700K Lumen Output : 689 lm
CRI: 90

CIE 1931



CIE 1931 Zoom



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

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