

Photometric Test Report



SunRise 2FLXFC

IP65 modular LED blinder with 2x300W
RGBWW+Amber

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TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

Please Note: All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

32920 lm

Peak candela output:

37995 cd

Light quality:

CRI: 93,6

Color temperature:

3191 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

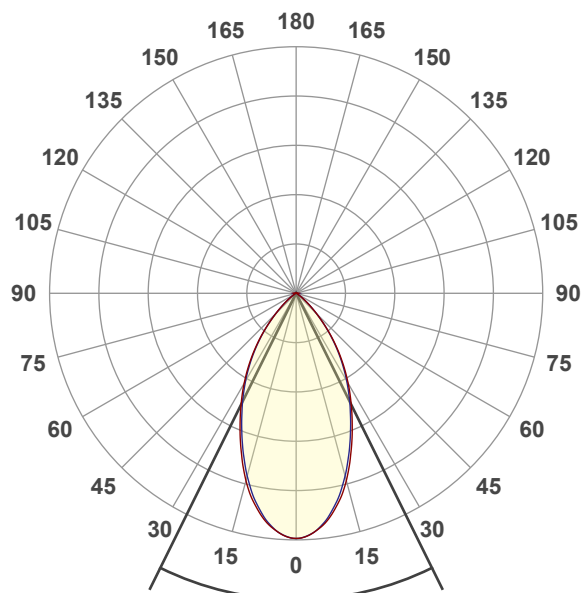
Full On

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:17:44

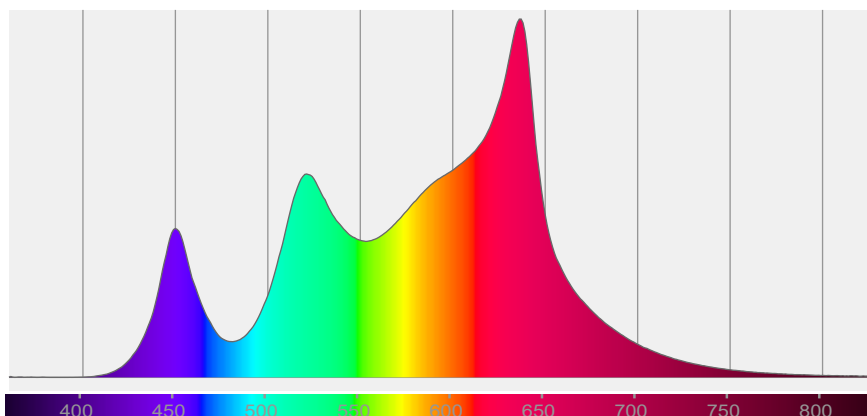


Beam angle 50%: 52,6°

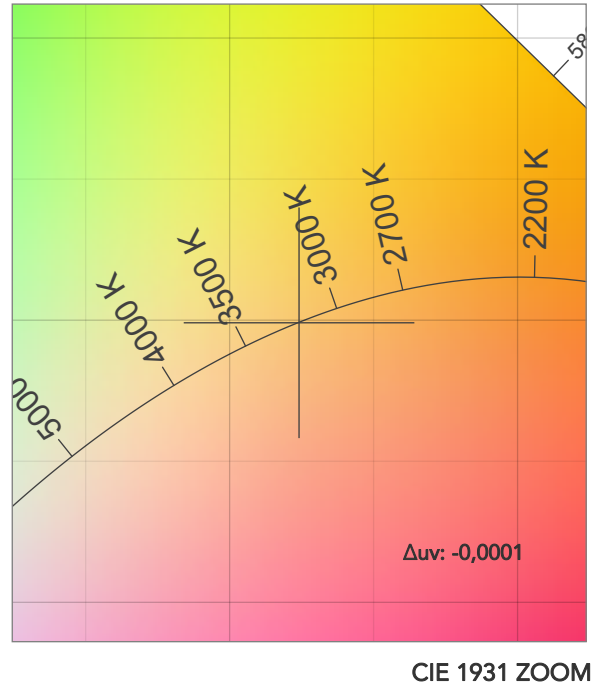
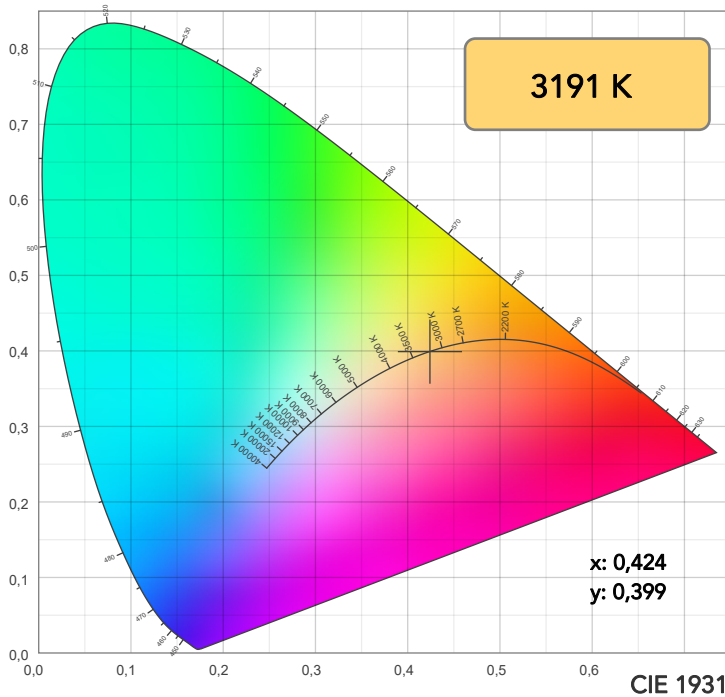
Field angle 10%: 92,4°

Cut off angle 2.5%: 108,2°

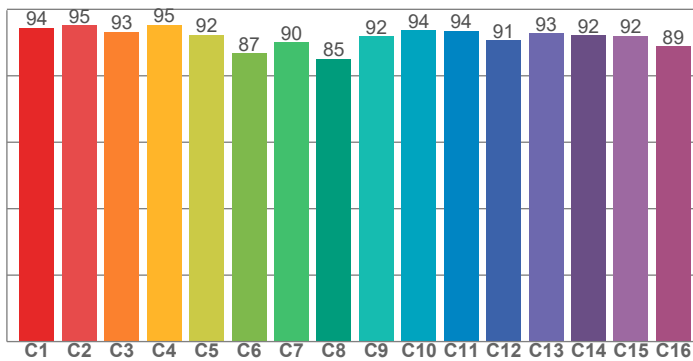
Spectra



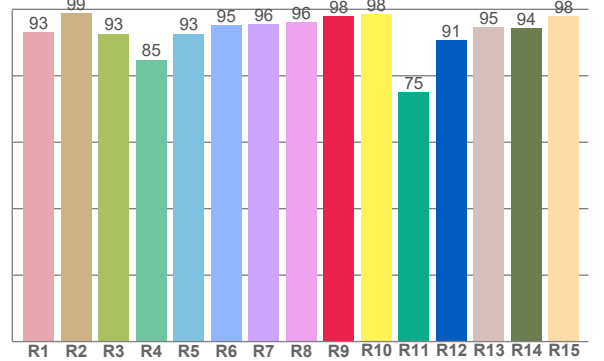
COLOR DETAILS



TM30: 92,3



CRI: 93,6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,0	99,0	92,7	84,8	92,7	95,2	95,6	96,2	98,0	98,5	75,2	90,8	94,5	94,4	98,0

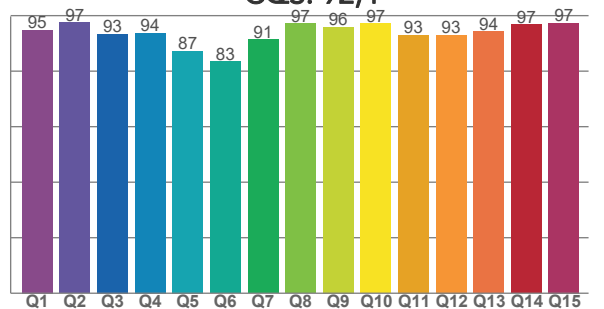
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	95,2	93,3	95,4	92,4	86,8	90,0	85,2	91,9	93,7	93,6	90,6	92,9	92,2	92,0	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,8	97,5	93,3	93,8	87,2	83,5	91,3	97,2	96,0	97,1	93,0	93,0	94,2	96,7	97,3

CQS: 92,4



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3191 K	93,6	98,0	92,3	106,3	92,4	81	0,424	0,399	-0,0001

TM30 DETAILS

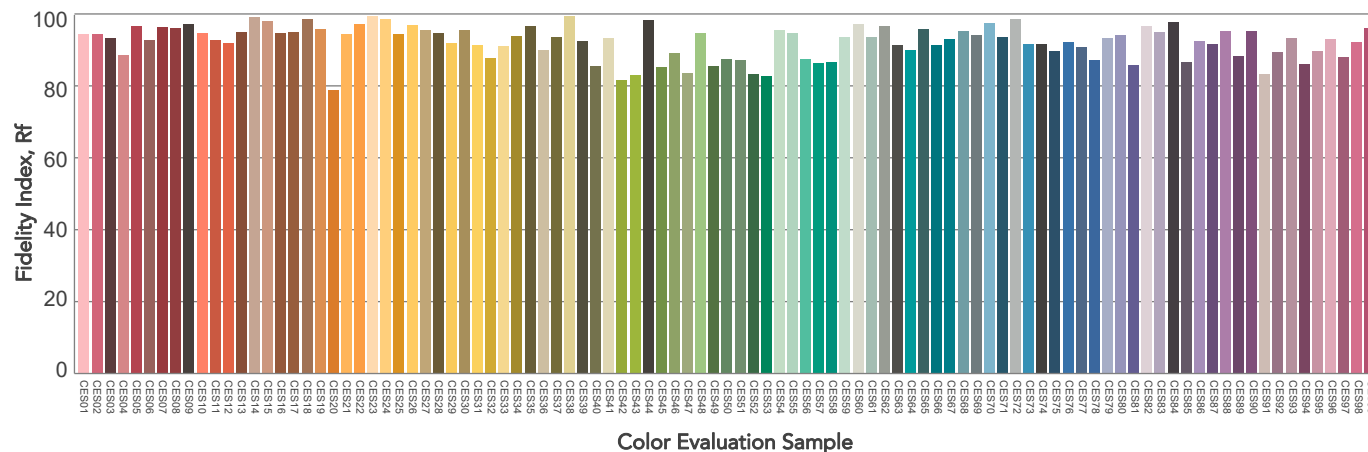
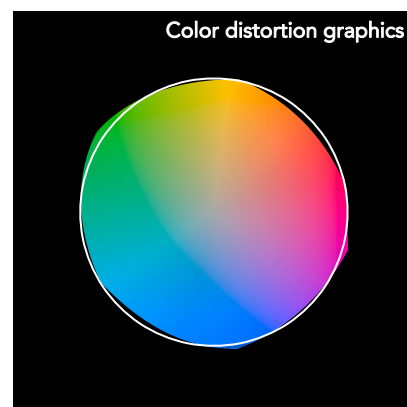
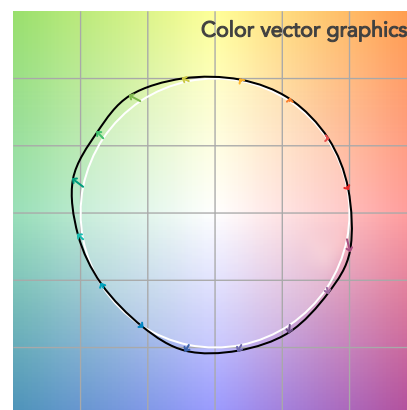
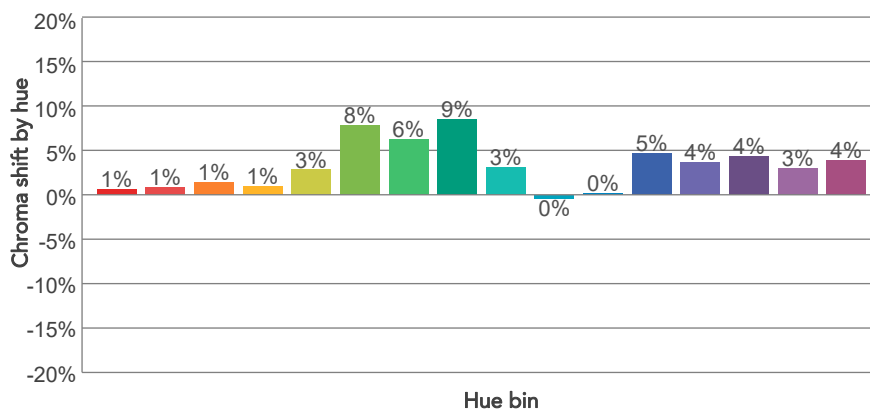
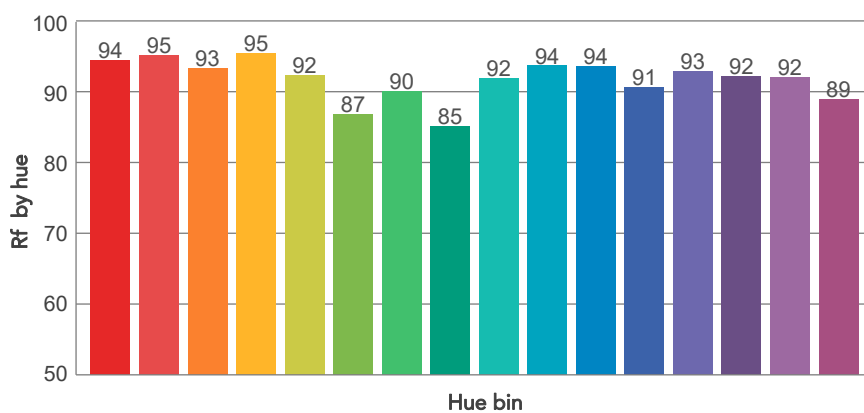
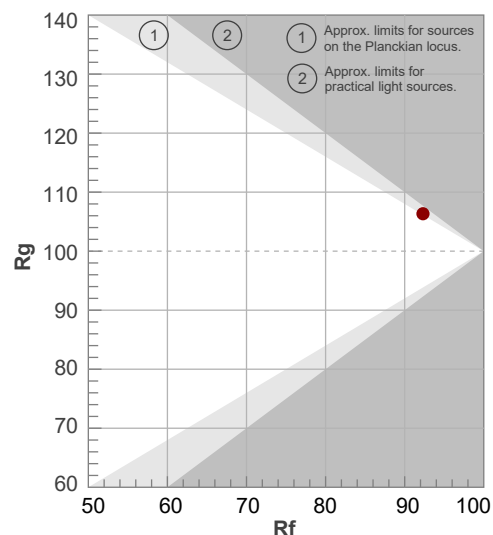
Rf 92,3

Fidelity index R_f

Rg 106,3

Gammut index

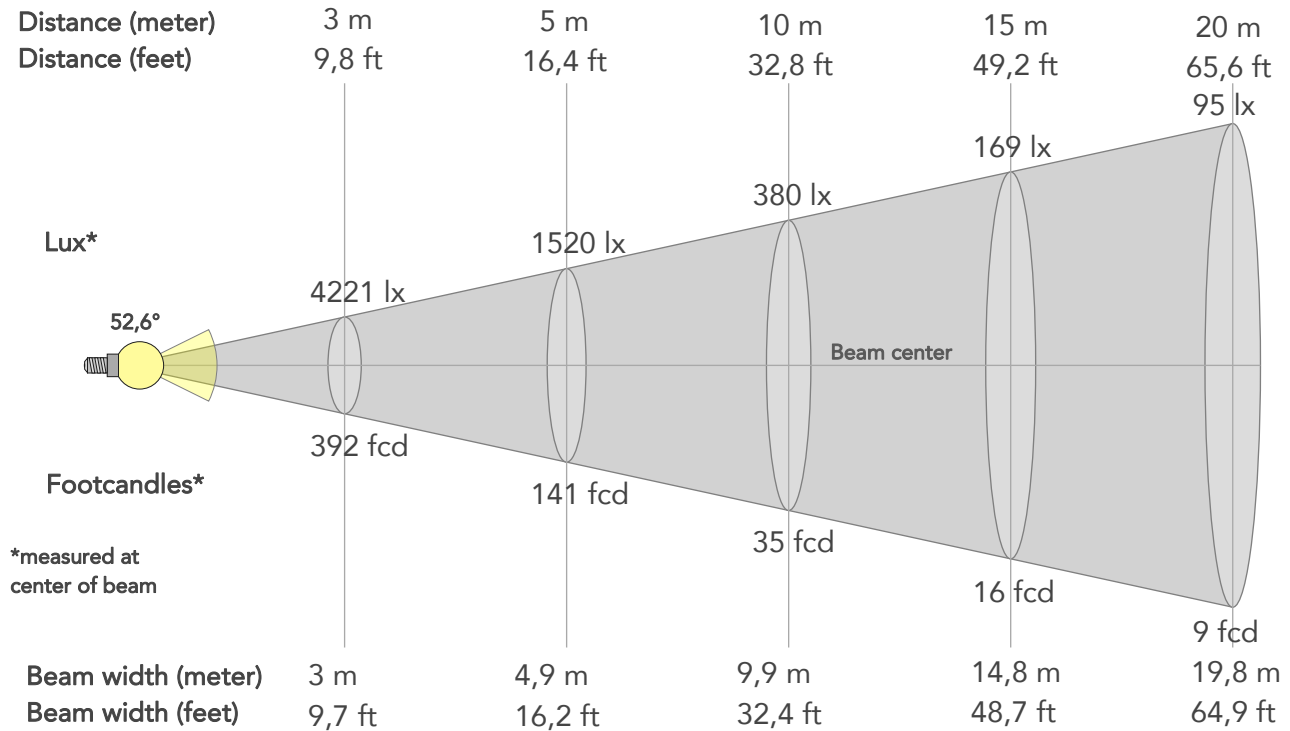
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	95	1%	-1%
3	93	1%	1%
4	95	1%	1%
5	92	3%	4%
6	87	8%	4%
7	90	6%	-1%
8	85	9%	-4%
9	92	3%	-4%
10	94	0%	-3%
11	94	0%	2%
12	91	5%	-2%
13	93	4%	-3%
14	92	4%	-4%
15	92	3%	-3%
16	89	4%	-8%



BEAM DETAILS



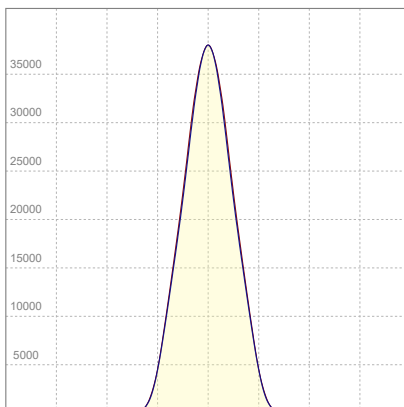
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,6°	92,4°	108,2°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	37990lx	9497lx	4221lx	2374lx	1520lx	675lx	380lx	169lx	95lx	61lx	42lx	24lx	15lx
Footcand.	3529fcd	882fcd	392fcd	221fcd	141fcd	63fcd	35fcd	16fcd	9fcd	6fcd	4fcd	2fcd	1fcd
Beam wid.	1m	2m	3m	4m	4,9m	7,4m	9,9m	14,8m	19,8m	24,7m	29,7m	39,6m	49,5m
Beam wid.	3,3ft	6,5ft	9,7ft	13ft	16,2ft	24,3ft	32,4ft	48,7ft	64,9ft	81,1ft	97,3ft	129,8ft	162,2ft

LINEAR DISTRIBUTION DIAGRAM

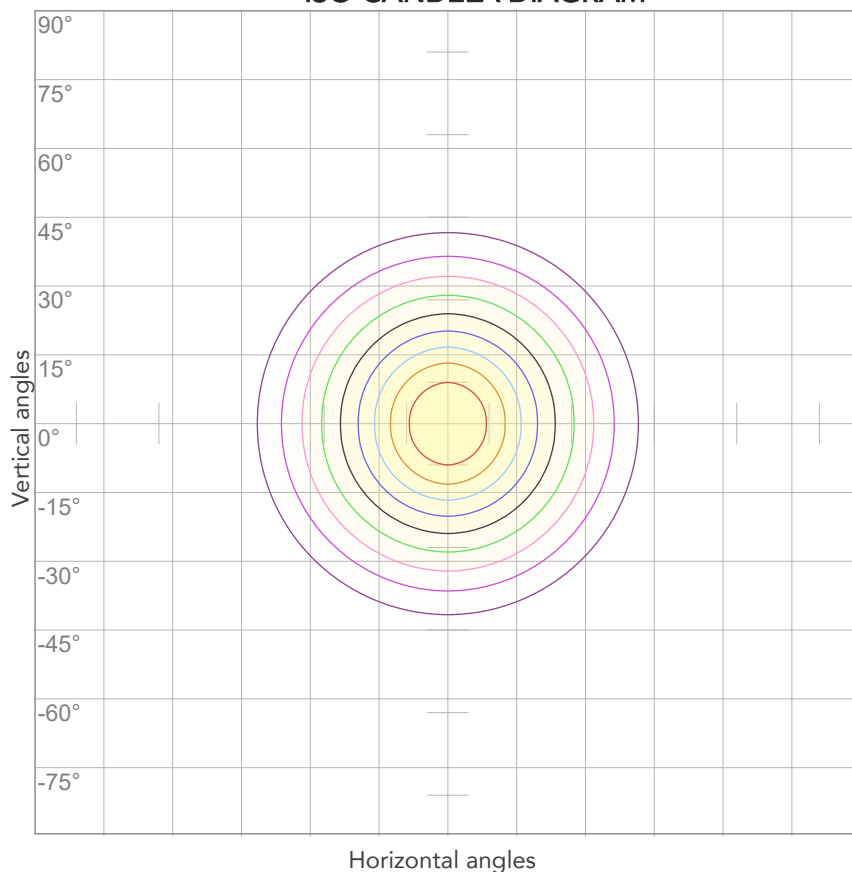


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	2,79A	626,9W	1,0	53lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



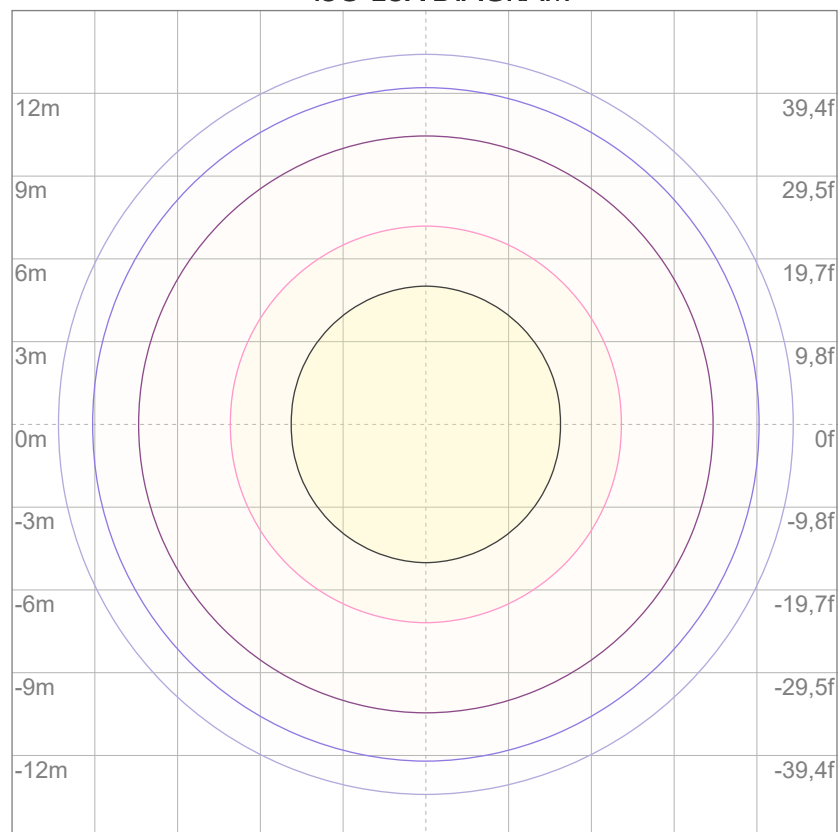
10%	3799 cd
20%	7598 cd
30%	11397 cd
40%	15196 cd
50%	18995 cd
60%	22794 cd
70%	26593 cd
80%	30392 cd

Conditions:

Number of c-planes: 4

Candela at center: 37990 cd

ISO LUX DIAGRAM



3%	11,4 lx
5%	19,0 lx
10%	38,0 lx
30%	114 lx
50%	190 lx

Conditions:

Number of c-planes: 4

Lux at center: 380 lx

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



Total lumen output:

4545 lm

Peak candela output:

5443 cd

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

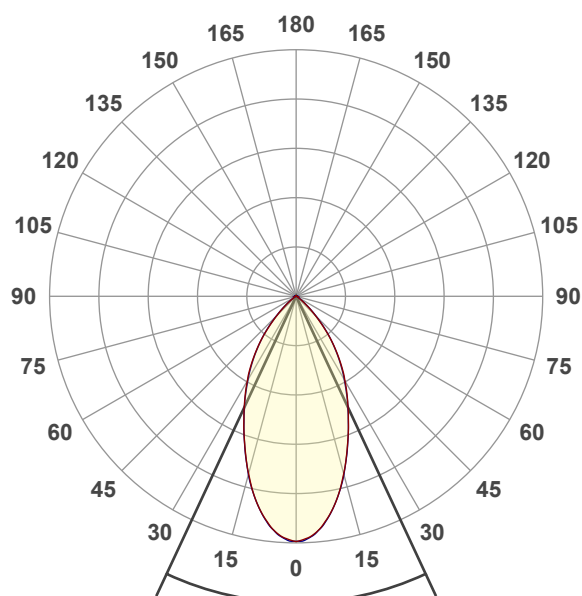
Red

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:02:18

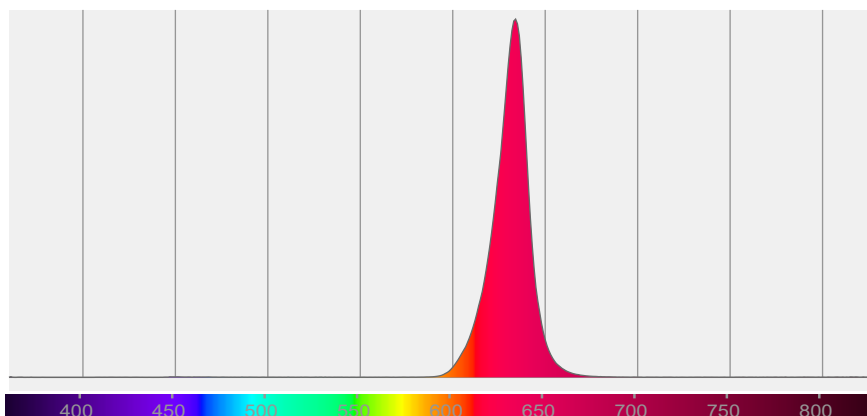


Beam angle 50%: 50°

Field angle 10%: 91,9°

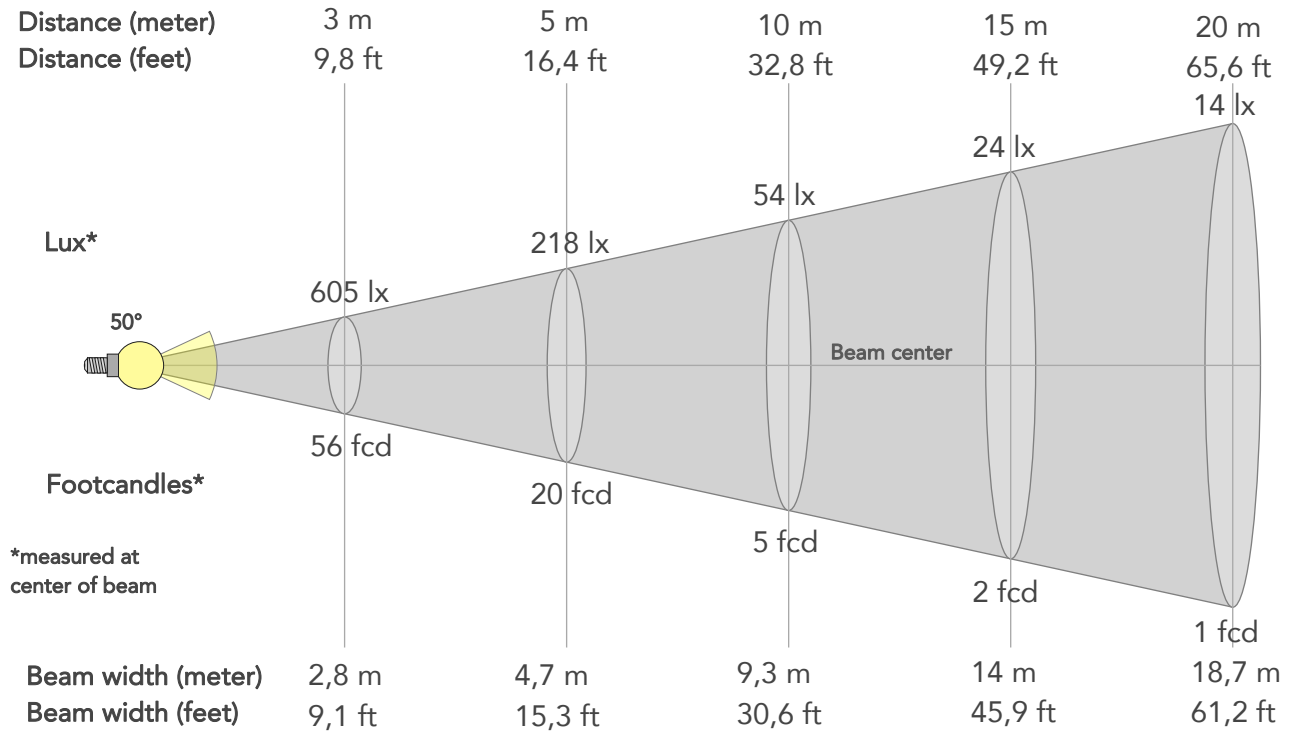
Cut off angle 2.5%: 107,8°

Spectra



BEAM DETAILS

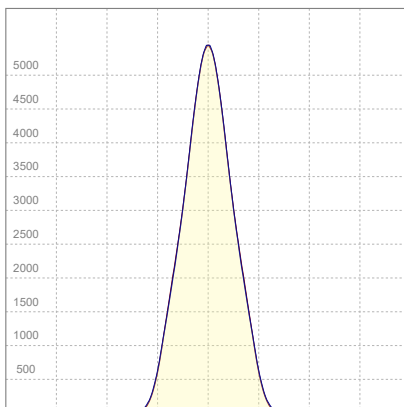
Beam angle 50°	Field angle 10°	Cut off angle 2,5°	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50°	91,9°	107,8°	98,5%	92,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5442lx	1361lx	605lx	340lx	218lx	97lx	54lx	24lx	14lx	9lx	6lx	3lx	2lx
Footcand.	506fcd	126fcd	56fcd	32fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,3m	14m	18,7m	23,3m	28m	37,3m	46,7m
Beam wid.	3,1ft	6,2ft	9,1ft	12,2ft	15,3ft	23ft	30,6ft	45,9ft	61,2ft	76,5ft	91,8ft	122,4ft	153ft

LINEAR DISTRIBUTION DIAGRAM

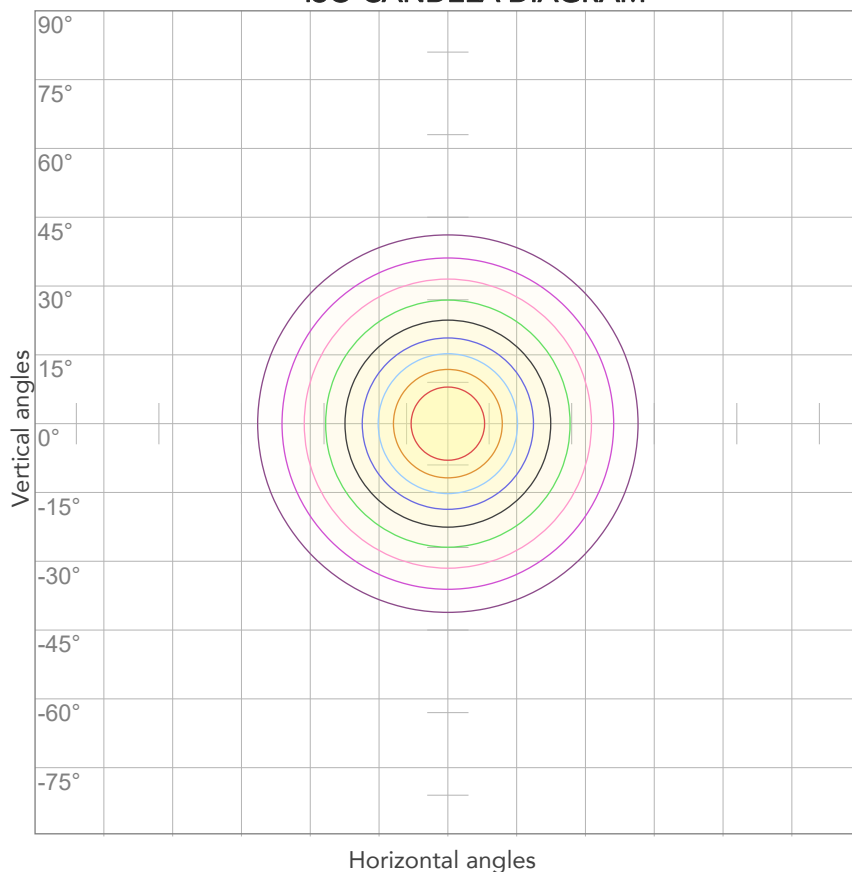


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,624A	138,4W	0,97	33lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



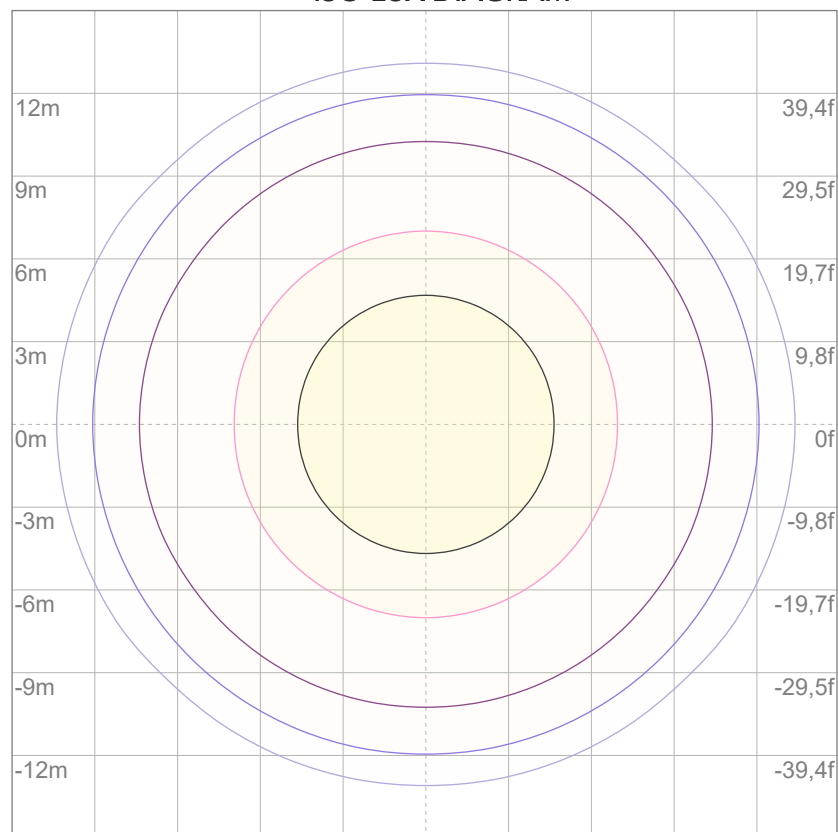
10%	544 cd
20%	1088 cd
30%	1633 cd
40%	2177 cd
50%	2721 cd
60%	3265 cd
70%	3810 cd
80%	4354 cd

Conditions:

Number of c-planes: 4

Candela at center: 5442 cd

ISO LUX DIAGRAM



3%	1,63 lx
5%	2,72 lx
10%	5,44 lx
30%	16,3 lx
50%	27,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 54,4 lx

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



Total lumen output:

9639 lm

Peak candela output:

11595 cd

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

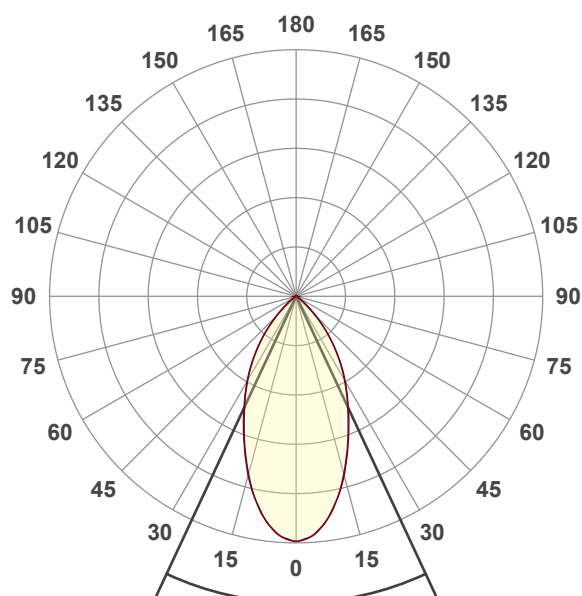
Green

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:13:46

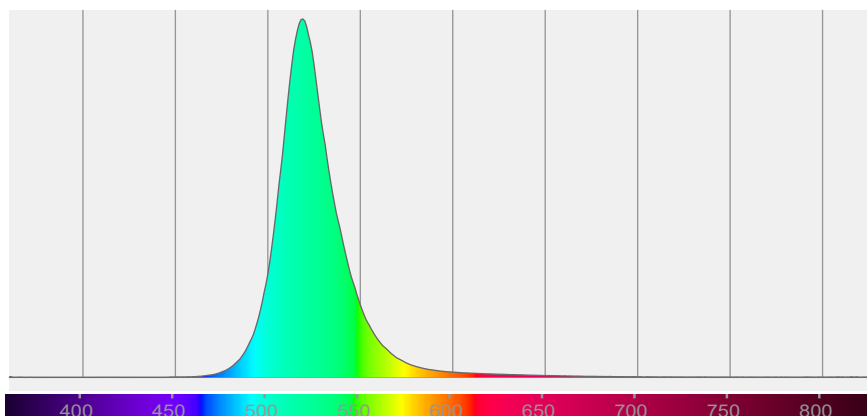


Beam angle 50%: 50°

Field angle 10%: 91,8°

Cut off angle 2.5%: 107,6°

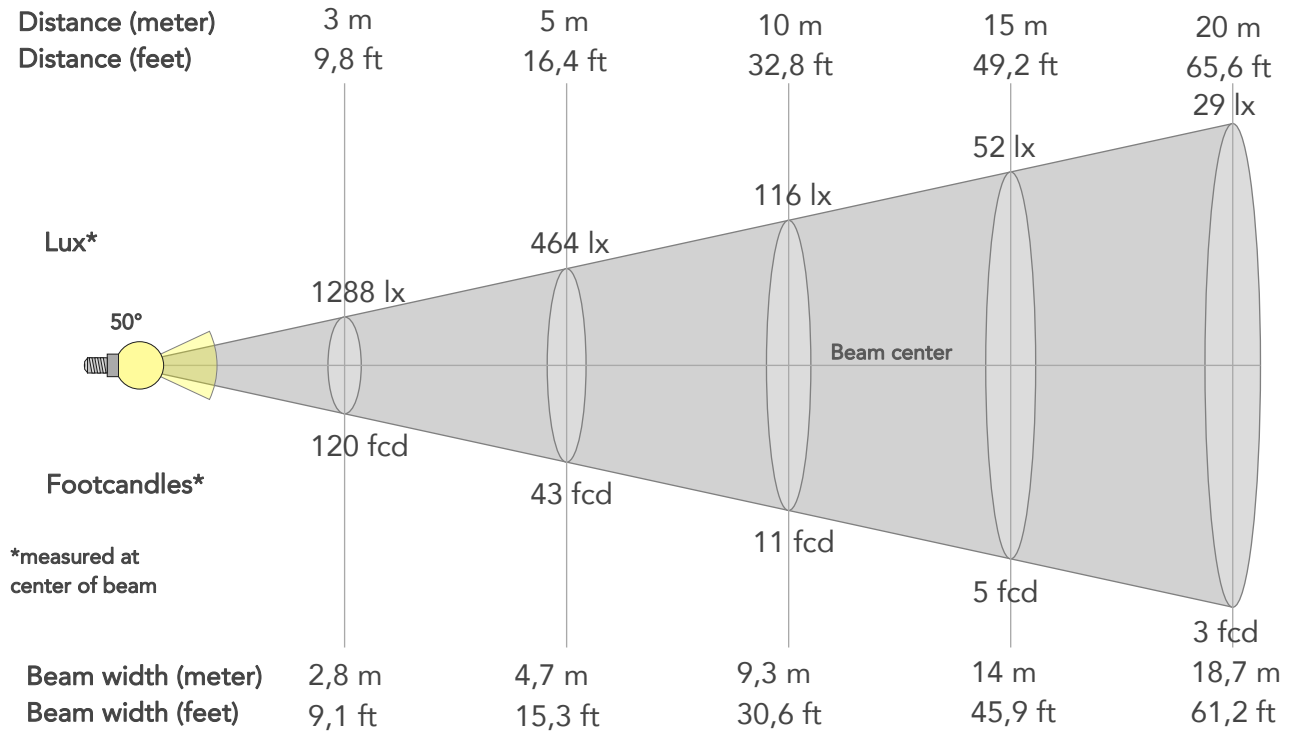
Spectra



BEAM DETAILS



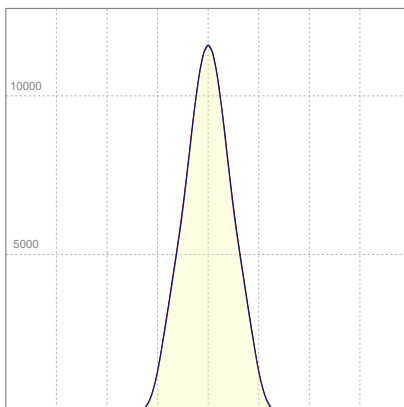
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50°	91,8°	107,6°	98,9%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	11591lx	2898lx	1288lx	724lx	464lx	206lx	116lx	52lx	29lx	19lx	13lx	7lx	5lx
Footcand.	1077fcd	269fcd	120fcd	67fcd	43fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,3m	14m	18,7m	23,3m	28m	37,3m	46,7m
Beam wid.	3,1ft	6,2ft	9,1ft	12,2ft	15,3ft	23ft	30,6ft	45,9ft	61,2ft	76,5ft	91,8ft	122,5ft	153,1ft

LINEAR DISTRIBUTION DIAGRAM

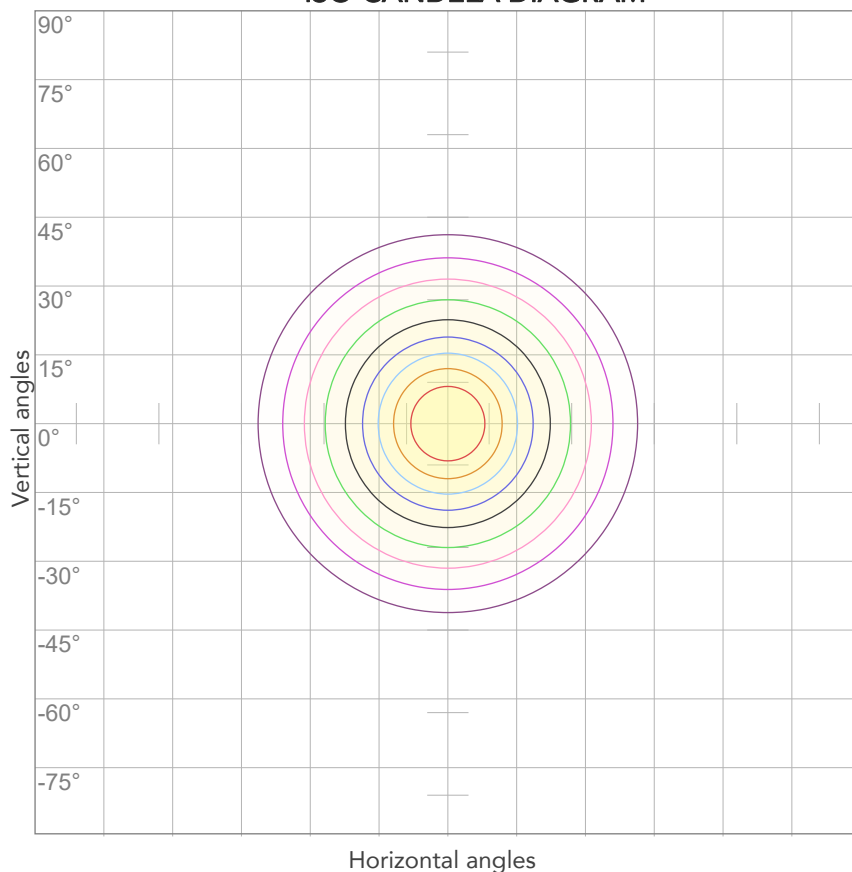


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,699A	155,3W	0,98	62lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



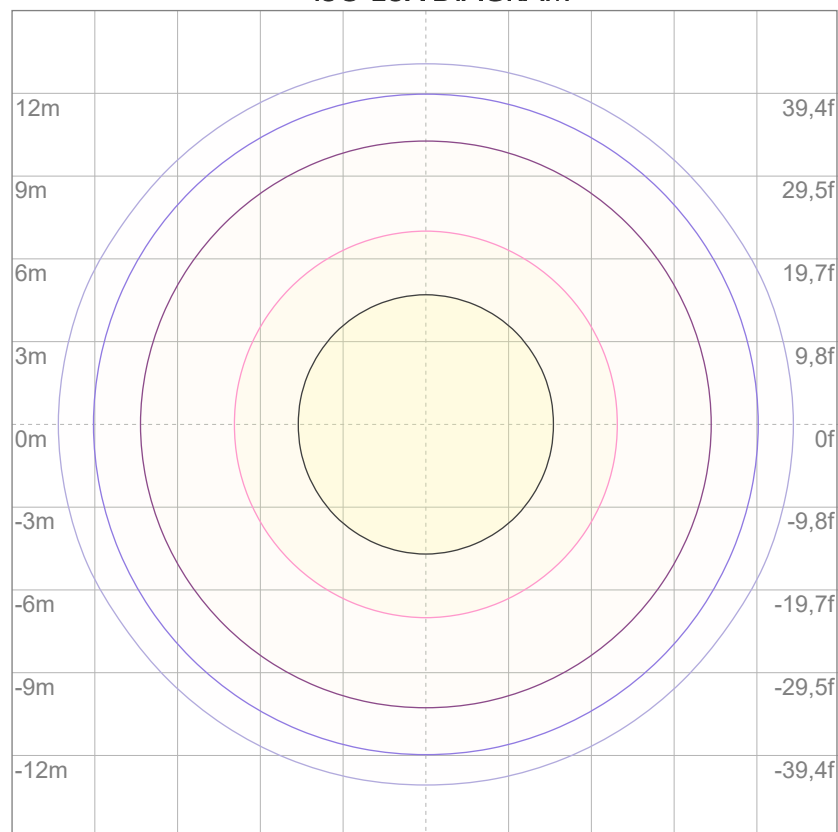
10%	1159 cd
20%	2318 cd
30%	3477 cd
40%	4636 cd
50%	5795 cd
60%	6955 cd
70%	8114 cd
80%	9273 cd

Conditions:

Number of c-planes: 4

Candela at center: 11591 cd

ISO LUX DIAGRAM



3%	3,48 lx
5%	5,80 lx
10%	11,6 lx
30%	34,8 lx
50%	58,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 116 lx

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



Total lumen output:

1821 lm

Peak candela output:

2157 cd

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

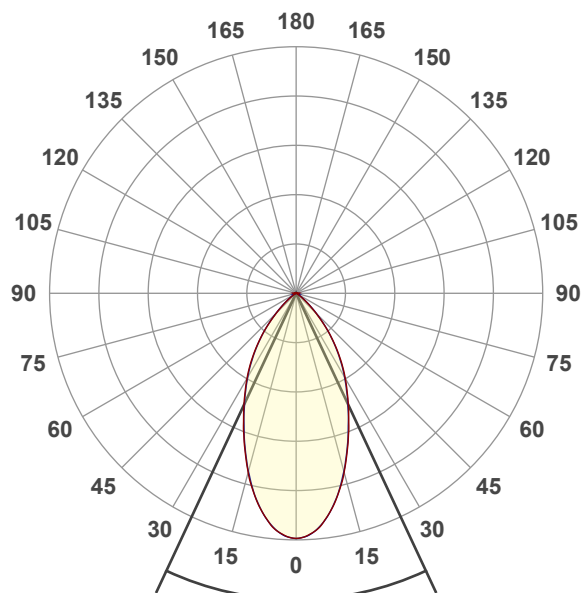
Blue

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:21:38

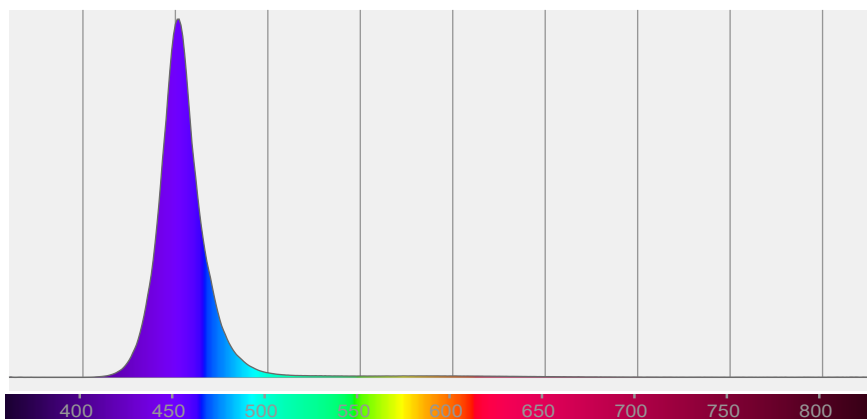


Beam angle 50%: 50,1°

Field angle 10%: 92,3°

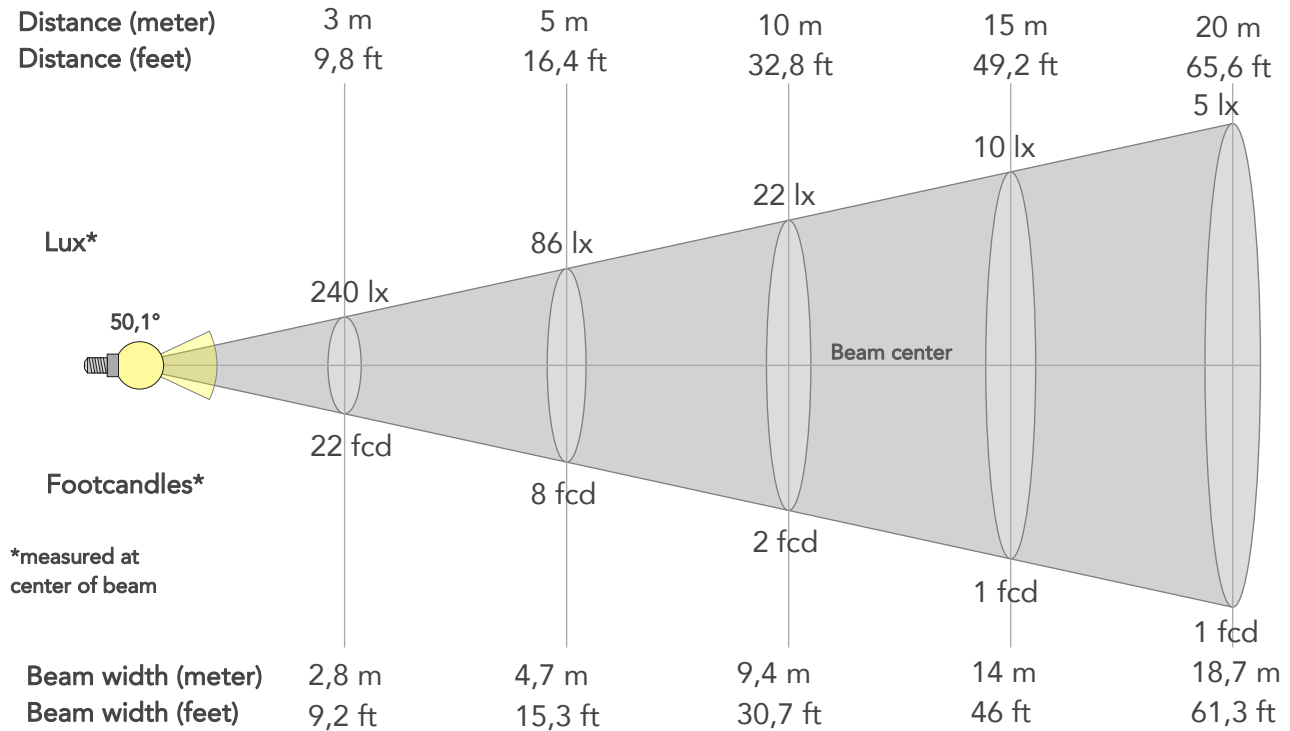
Cut off angle 2.5%: 108,6°

Spectra



BEAM DETAILS

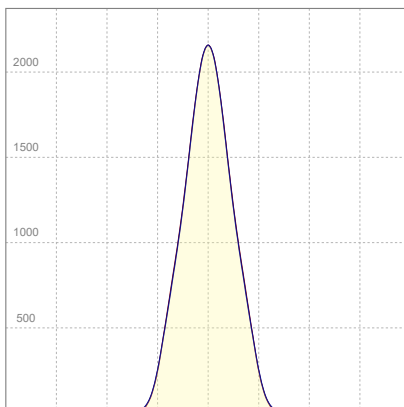
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,1°	92,3°	108,6°	98,2%	91,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2157lx	539lx	240lx	135lx	86lx	38lx	22lx	10lx	5lx	3lx	2lx	1lx	1lx
Footcand.	200fcd	50fcd	22fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,7m	4,7m	7m	9,4m	14m	18,7m	23,4m	28,1m	37,4m	46,8m
Beam wid.	3,1ft	6,2ft	9,2ft	12,3ft	15,3ft	23ft	30,7ft	46ft	61,3ft	76,7ft	92ft	122,7ft	153,4ft

LINEAR DISTRIBUTION DIAGRAM

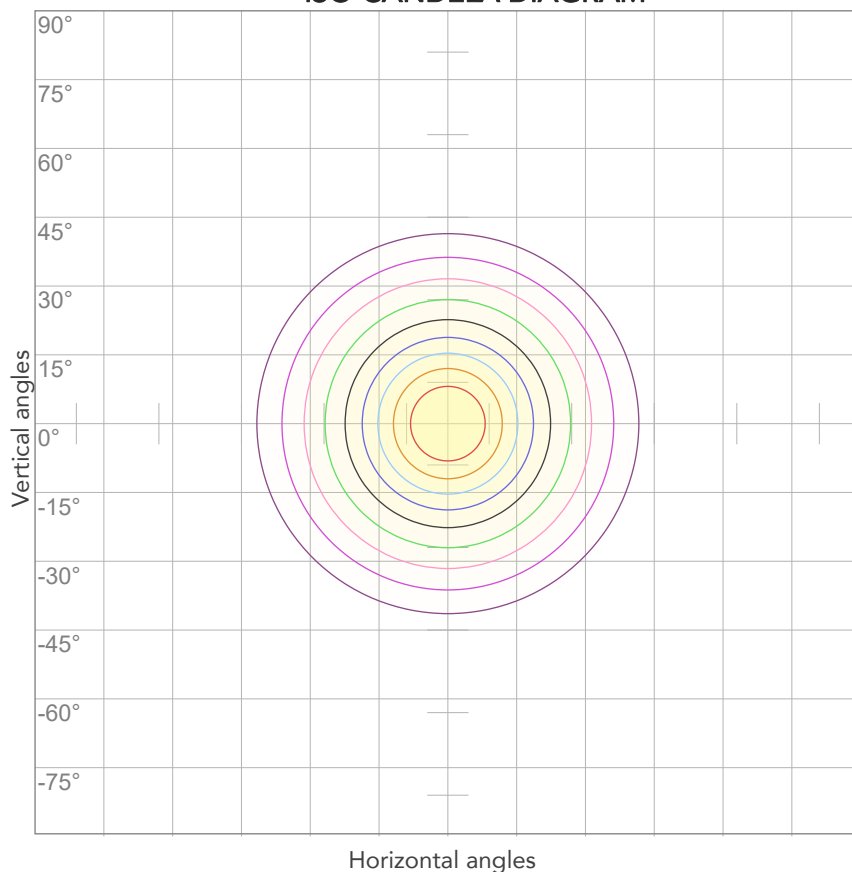


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,767A	170,7W	0,98	11lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



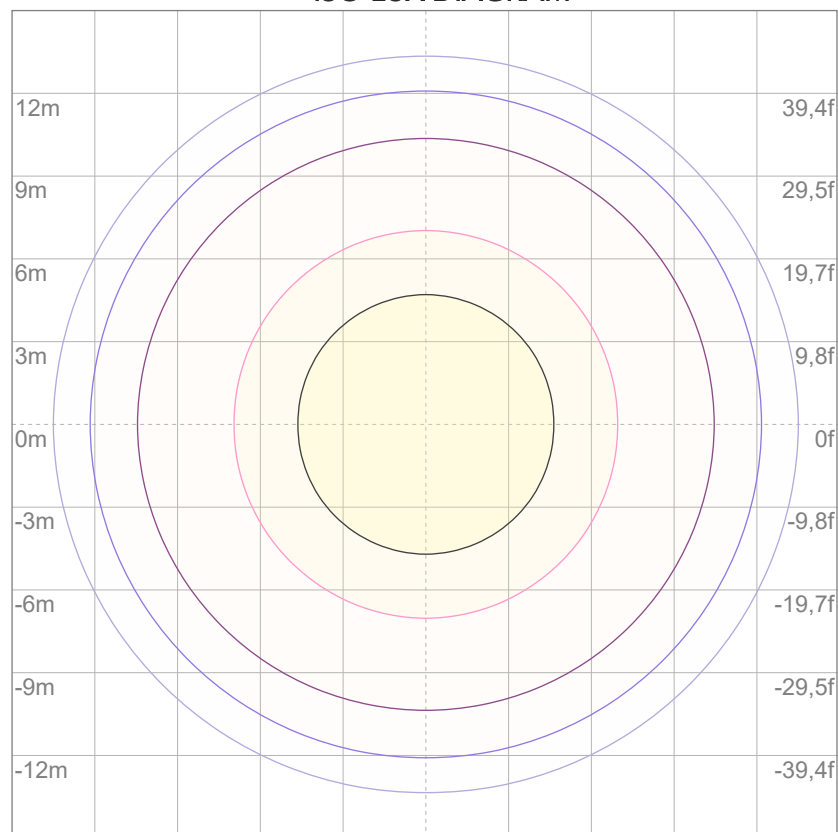
10%	216 cd
20%	431 cd
30%	647 cd
40%	863 cd
50%	1079 cd
60%	1294 cd
70%	1510 cd
80%	1726 cd

Conditions:

Number of c-planes: 4

Candela at center: 2157 cd

ISO LUX DIAGRAM



3%	0,647 lx
5%	1,08 lx
10%	2,16 lx
30%	6,47 lx
50%	10,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 21,6 lx

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



Total lumen output:

18787 lm

Peak candela output:

21372 cd

Light quality:

CRI: 82,9

Color temperature:

3117 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

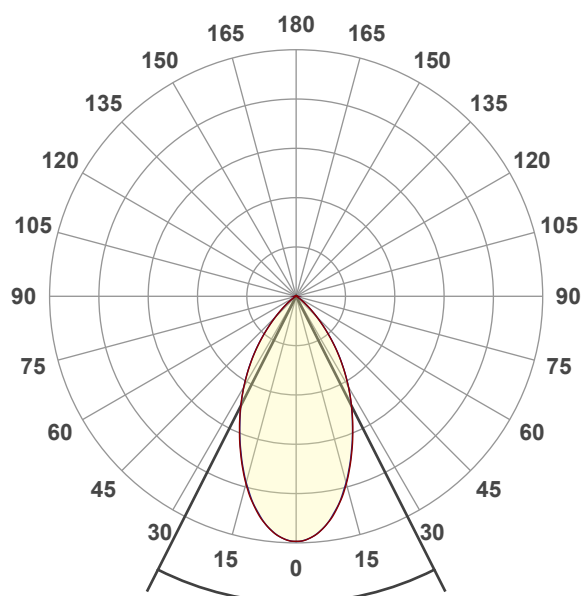
Warm White

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:33:02

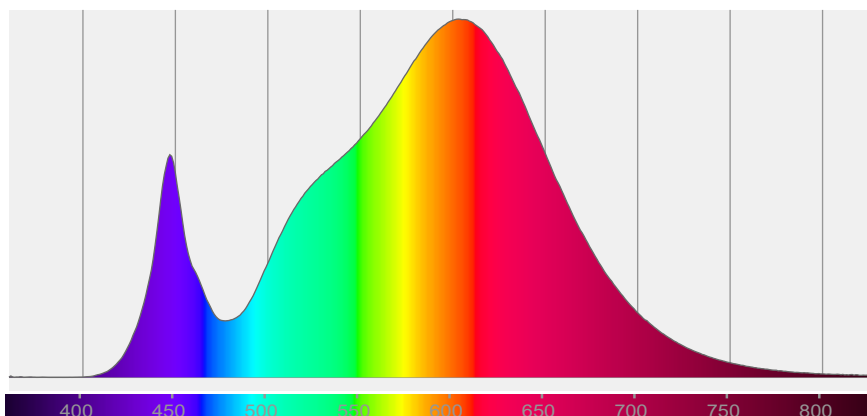


Beam angle 50%: 53,6°

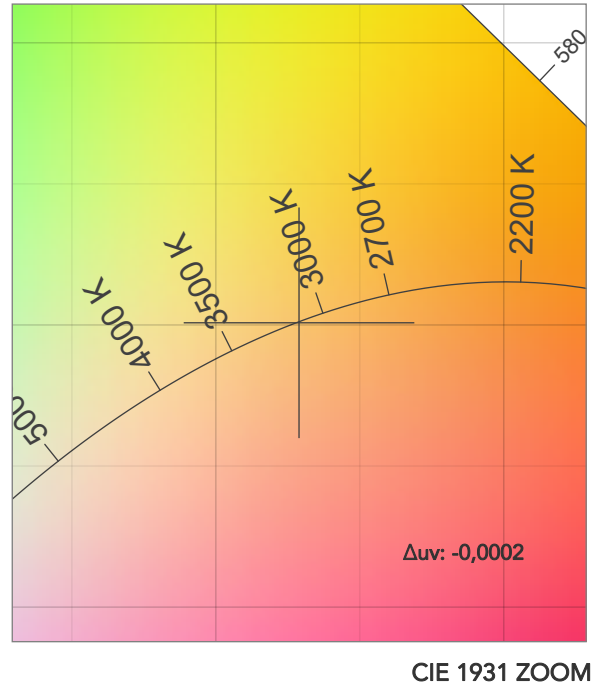
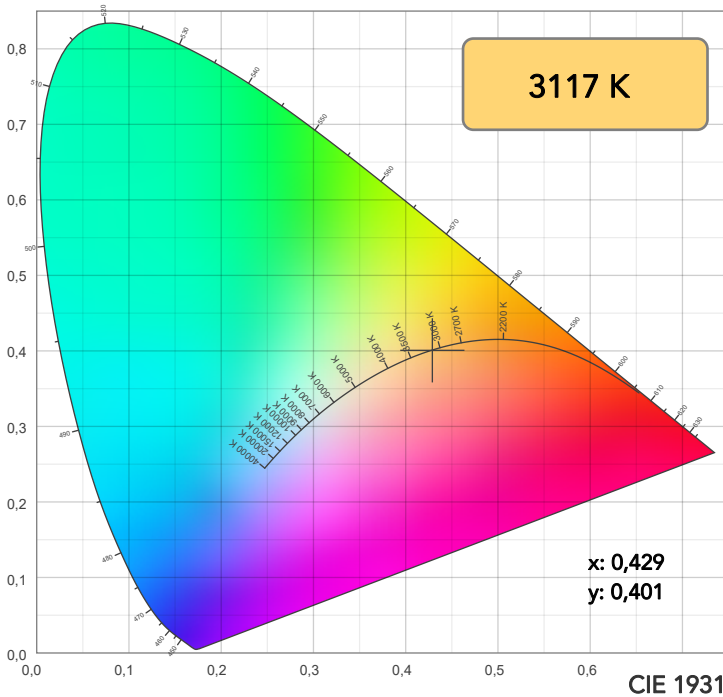
Field angle 10%: 92,7°

Cut off angle 2.5%: 108,7°

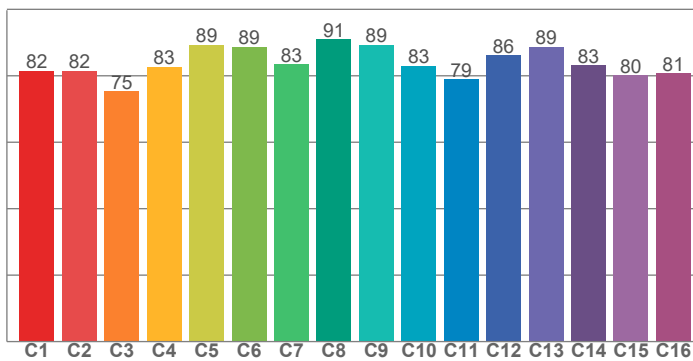
Spectra



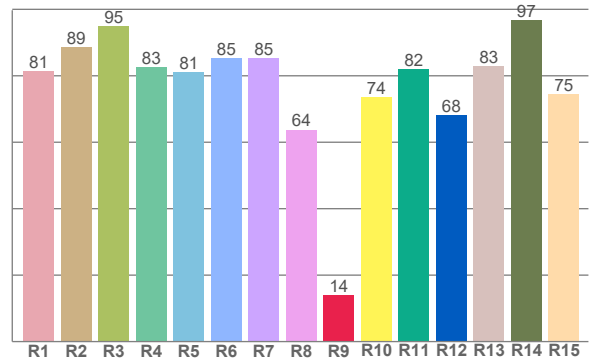
COLOR DETAILS



TM30: 83,8



CRI: 82,9 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81,4	88,6	94,8	82,6	81,0	85,3	85,3	63,8	13,9	73,5	82,0	68,2	82,8	96,8	74,5

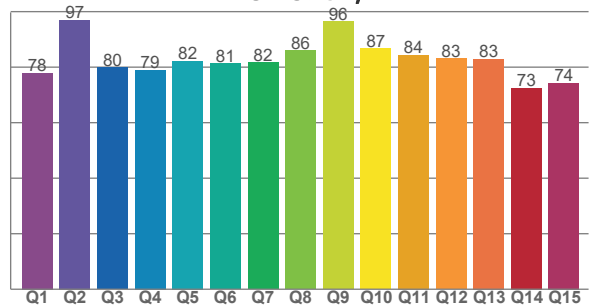
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,5	81,6	75,3	82,7	89,3	88,7	83,5	91,1	89,3	83,0	78,9	86,1	88,8	83,1	80,1	80,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,0	96,9	79,8	79,0	82,1	81,3	81,7	85,9	96,4	86,7	84,4	83,1	83,0	72,5	74,3

CQS: 81,7



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3117 K	82,9	13,9	83,8	98,9	81,7	68	0,429	0,401	-0,0002

TM30 DETAILS

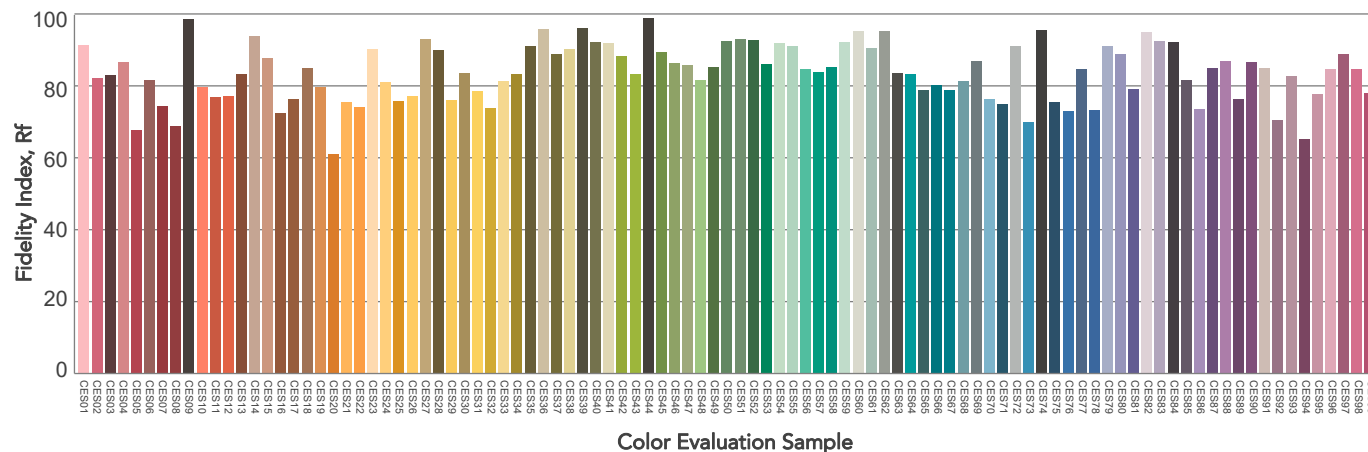
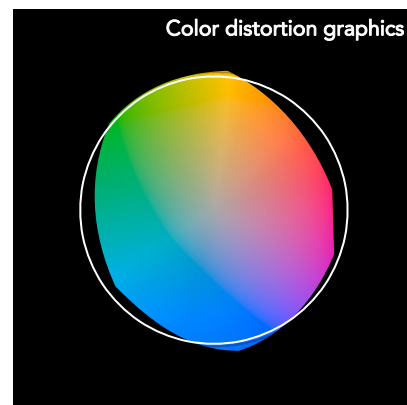
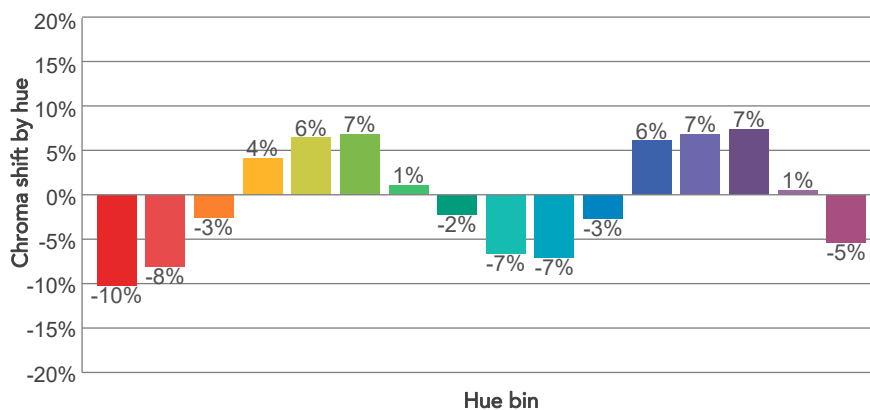
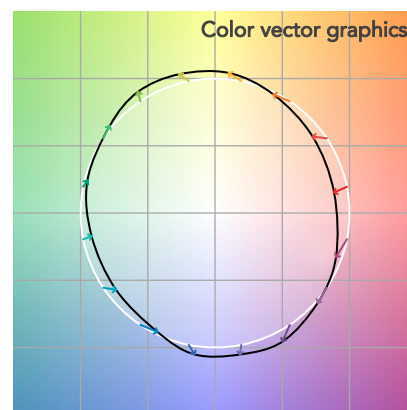
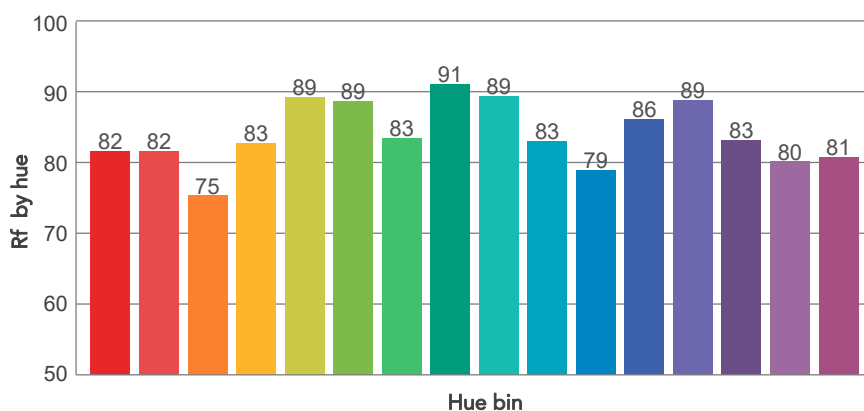
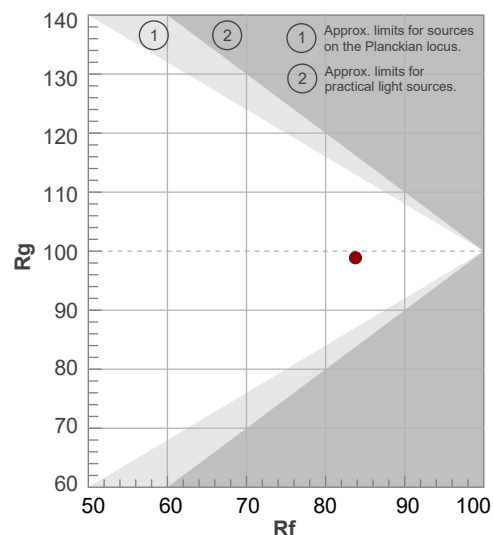
Rf 83,8

Fidelity index Rf

Rg 98,9

Gammut index

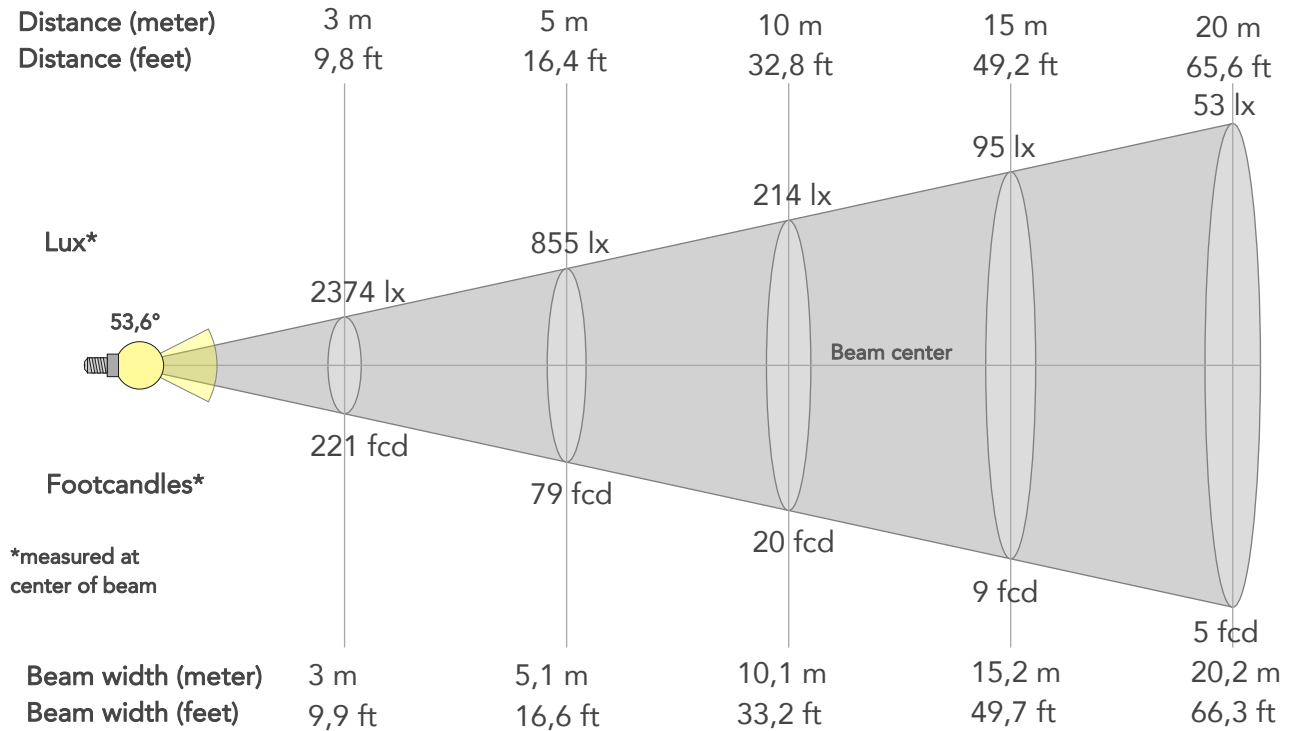
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	75	-3%	13%
4	83	4%	10%
5	89	6%	6%
6	89	7%	-2%
7	83	1%	-10%
8	91	-2%	-5%
9	89	-7%	-1%
10	83	-7%	7%
11	79	-3%	14%
12	86	6%	6%
13	89	7%	-2%
14	83	7%	-11%
15	80	1%	-13%
16	81	-5%	-15%



BEAM DETAILS



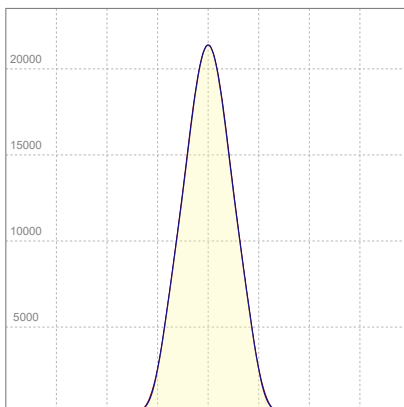
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,6°	92,7°	108,7°	99,0%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	21368lx	5342lx	2374lx	1335lx	855lx	380lx	214lx	95lx	53lx	34lx	24lx	13lx	9lx
Footcand.	1985fcd	496fcd	221fcd	124fcd	79fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,3m	40,4m	50,5m
Beam wid.	3,3ft	6,7ft	9,9ft	13,2ft	16,6ft	24,9ft	33,2ft	49,7ft	66,3ft	82,9ft	99,5ft	132,6ft	165,8ft

LINEAR DISTRIBUTION DIAGRAM

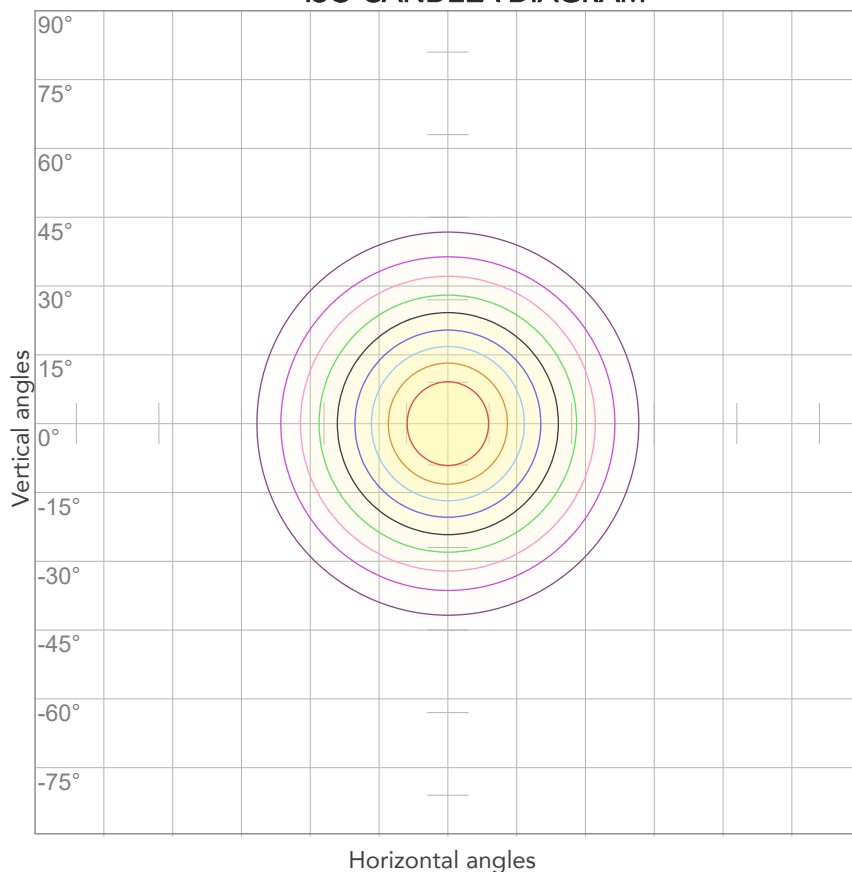


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	1,15A	262,7W	0,99	72lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



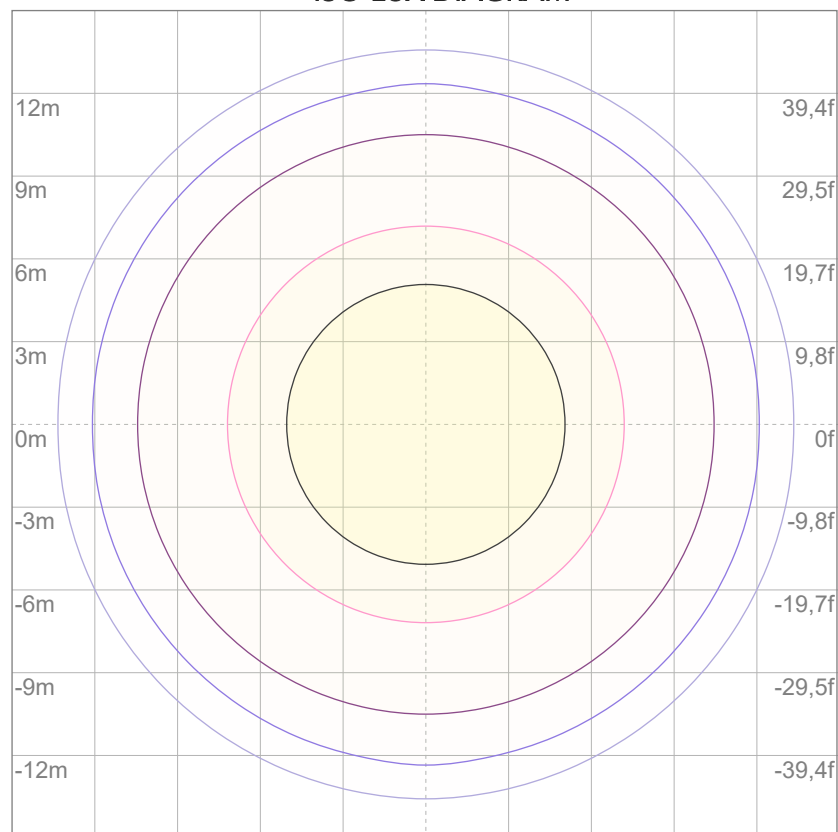
10%	2137 cd
20%	4274 cd
30%	6410 cd
40%	8547 cd
50%	10684 cd
60%	12821 cd
70%	14957 cd
80%	17094 cd

Conditions:

Number of c-planes: 4

Candela at center: 21368 cd

ISO LUX DIAGRAM



3%	6,41 lx
5%	10,7 lx
10%	21,4 lx
30%	64,1 lx
50%	107 lx

Conditions:

Number of c-planes: 4

Lux at center: 214 lx

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



Total lumen output:

6555 lm

Peak candela output:

7840 cd

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

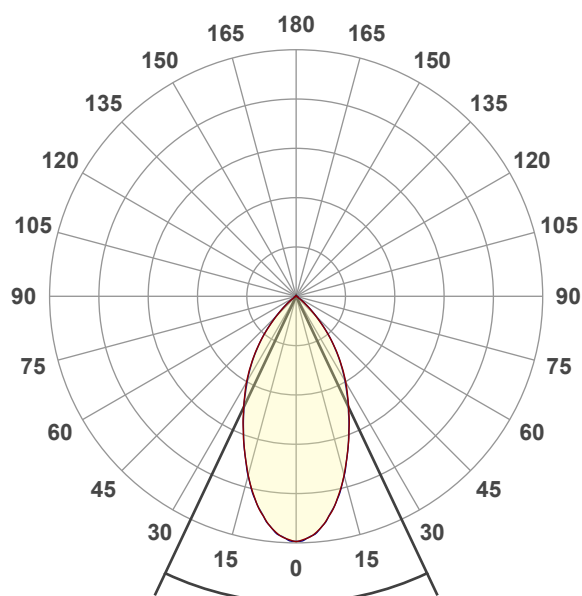
Amber

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:29:05

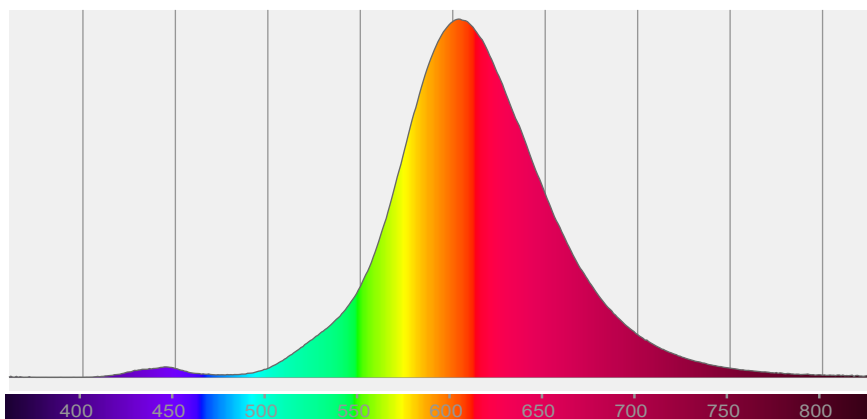


Beam angle 50%: 50,6°

Field angle 10%: 91,9°

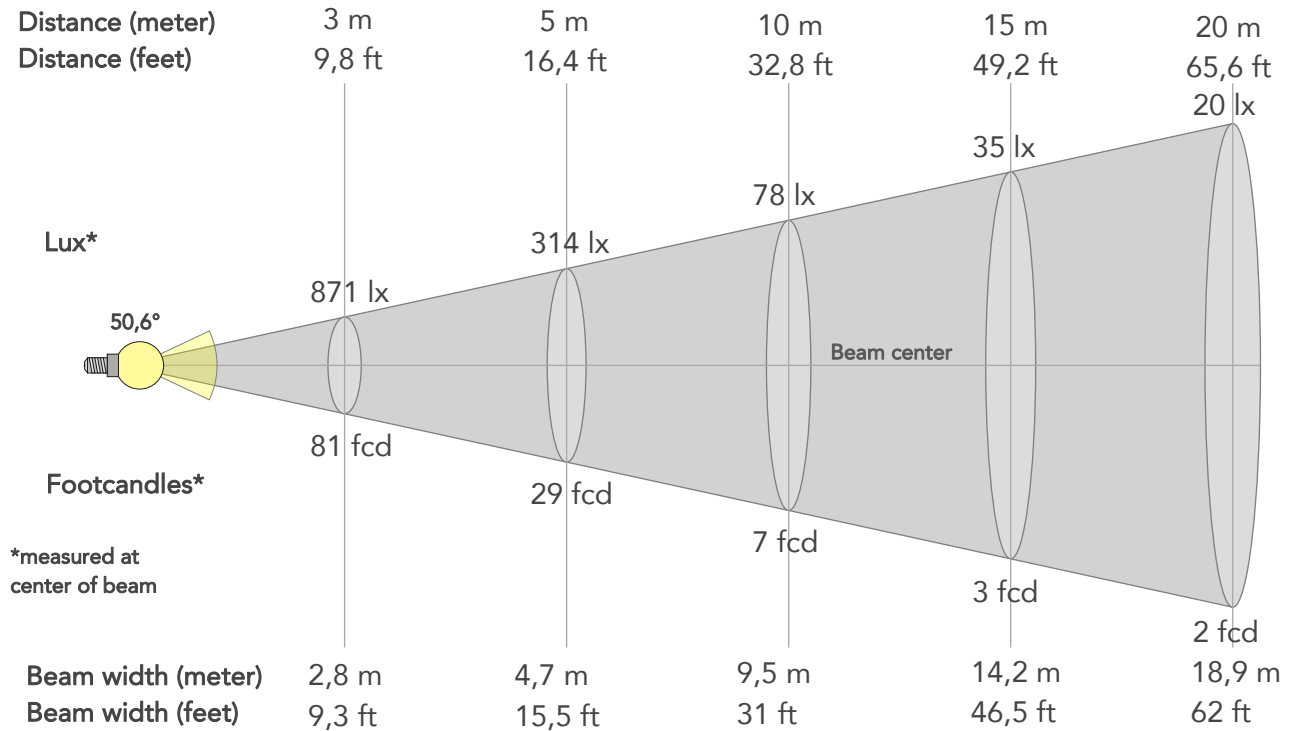
Cut off angle 2.5%: 107,4°

Spectra



BEAM DETAILS

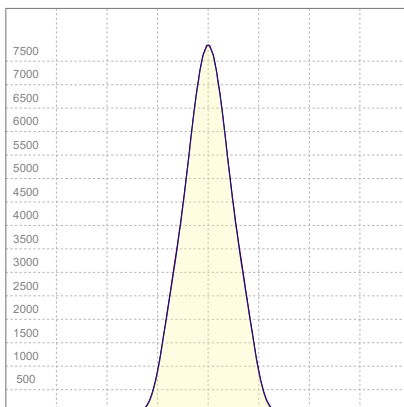
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50,6°	91,9°	107,4°	99,0%	92,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	7838lx	1960lx	871lx	490lx	314lx	139lx	78lx	35lx	20lx	13lx	9lx	5lx	3lx
Footcand.	728fcd	182fcd	81fcd	46fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,9m	1,9m	2,8m	3,8m	4,7m	7,1m	9,5m	14,2m	18,9m	23,6m	28,4m	37,8m	47,3m
Beam wid.	3,1ft	6,2ft	9,3ft	12,4ft	15,5ft	23,3ft	31ft	46,5ft	62ft	77,5ft	93ft	124ft	155ft

LINEAR DISTRIBUTION DIAGRAM

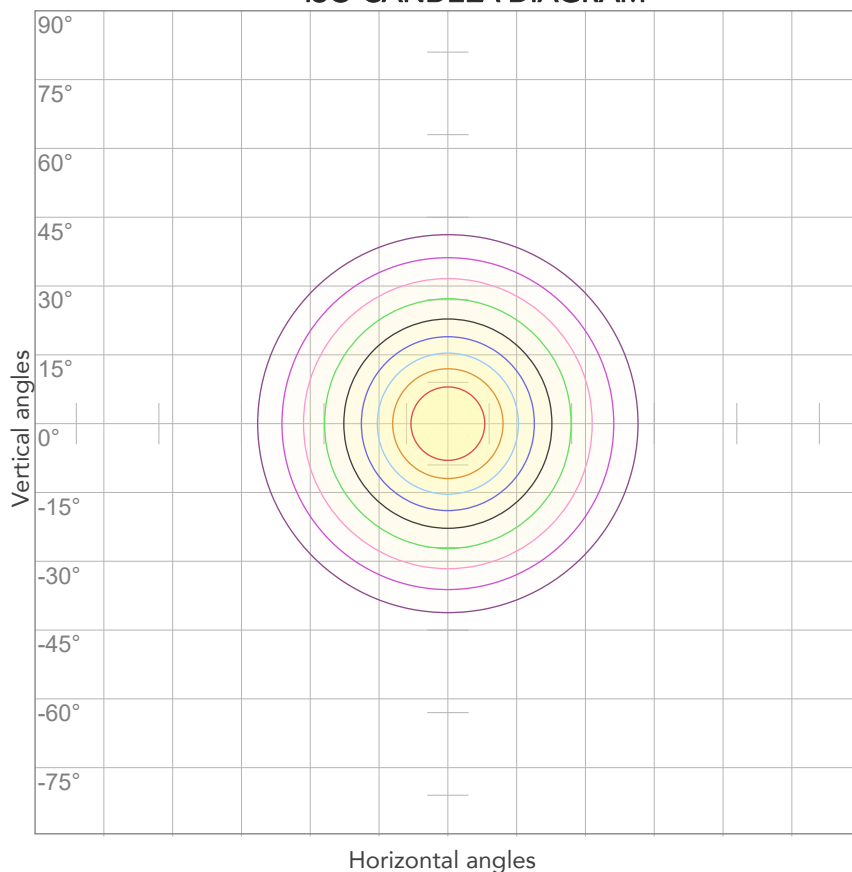


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,724A	163,3W	0,98	40lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



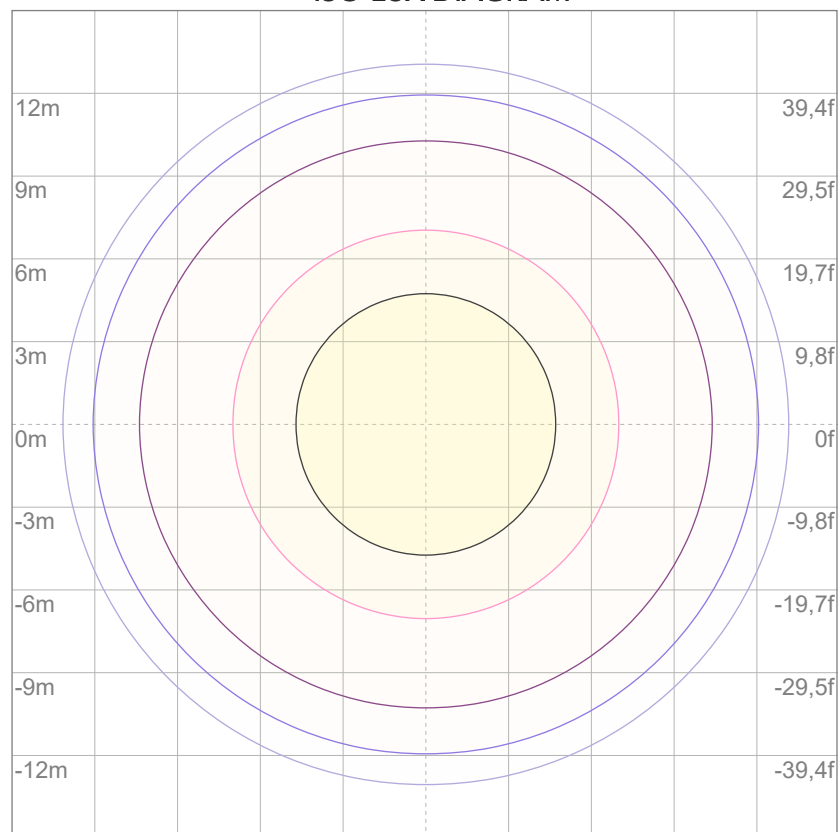
10%	784 cd
20%	1568 cd
30%	2351 cd
40%	3135 cd
50%	3919 cd
60%	4703 cd
70%	5487 cd
80%	6270 cd

Conditions:

Number of c-planes: 4

Candela at center: 7838 cd

ISO LUX DIAGRAM



3%	2,35 lx
5%	3,92 lx
10%	7,84 lx
30%	23,5 lx
50%	39,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 78,4 lx

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



Total lumen output:

29618 lm

Peak candela output:

34396 cd

Light quality:

CRI: 92,0

Color temperature:

2843 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

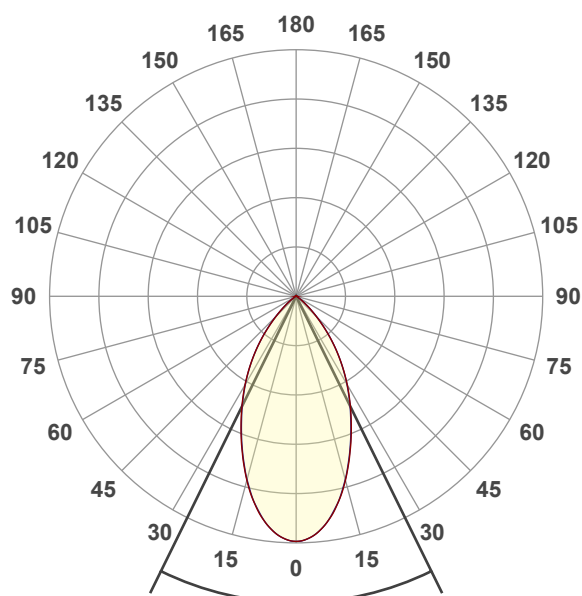
2800K

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:52:24

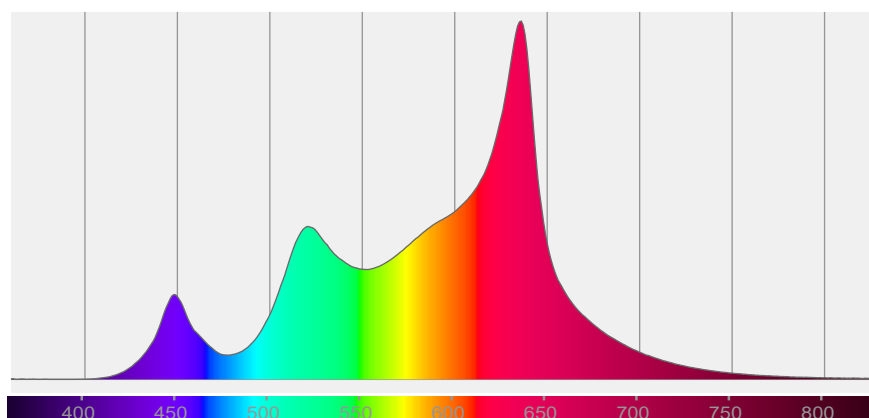


Beam angle 50%: 52,4°

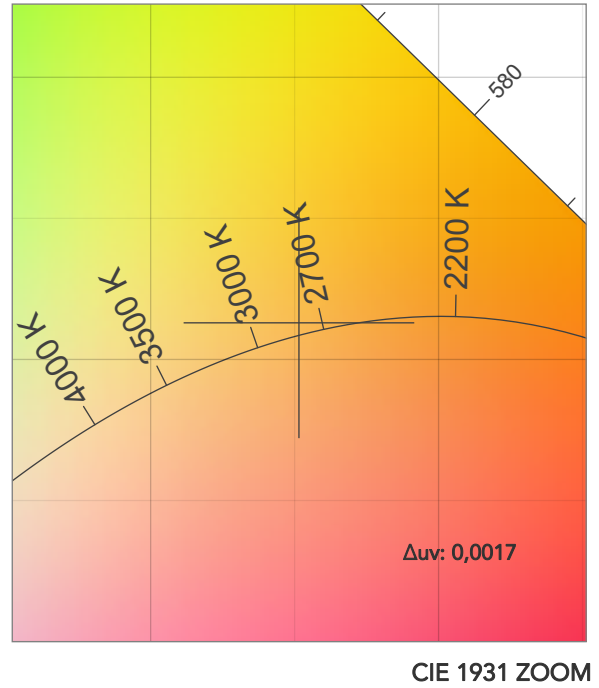
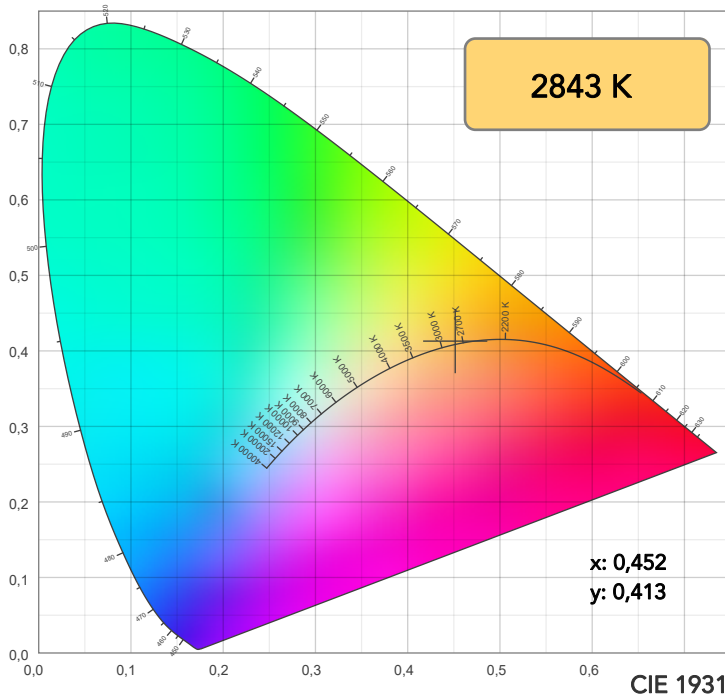
Field angle 10%: 92,4°

Cut off angle 2.5%: 108,2°

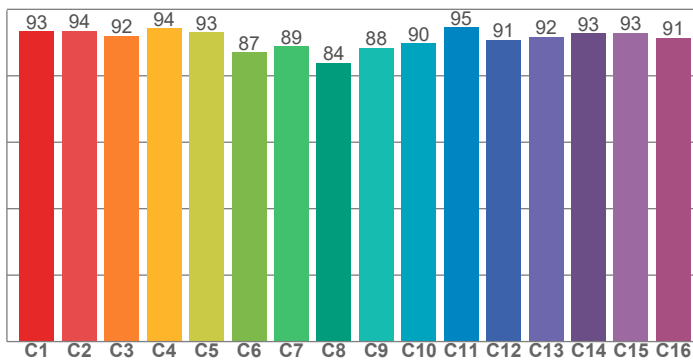
Spectra



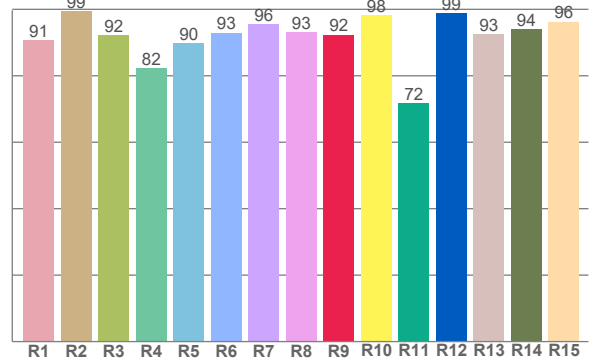
COLOR DETAILS



TM30: 91,6



CRI: 92,0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
90,7	99,3	92,3	82,4	89,9	93,0	95,5	93,1	92,4	98,2	71,8	98,9	92,6	93,9	96,3

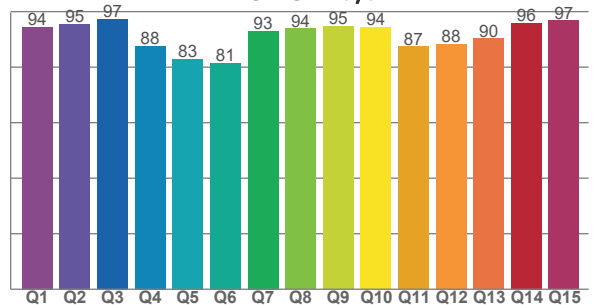
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,3	93,6	92,1	94,3	93,1	87,0	88,9	83,9	88,5	89,8	94,5	90,8	91,7	92,7	93,0	91,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,5	95,5	97,3	87,6	82,9	81,4	93,0	93,9	94,9	94,4	87,5	88,4	90,3	95,9	96,8

CQS: 90,0



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2843 K	92,0	92,4	91,6	105,9	90,0	77	0,452	0,413	0,0017

TM30 DETAILS

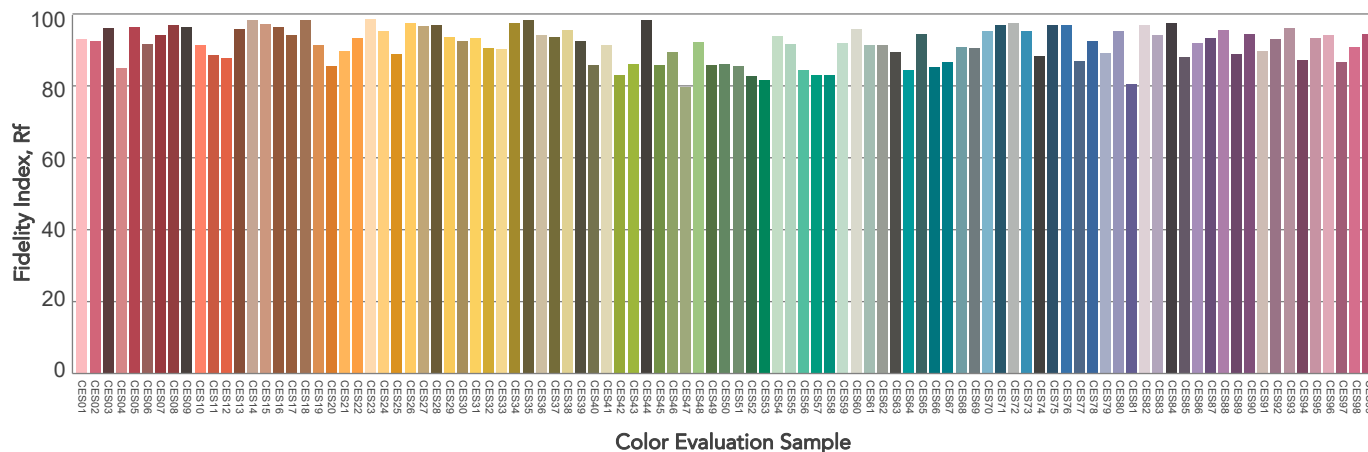
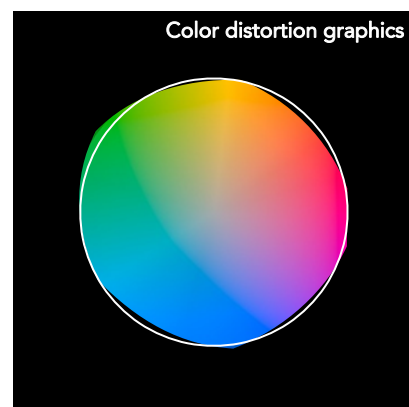
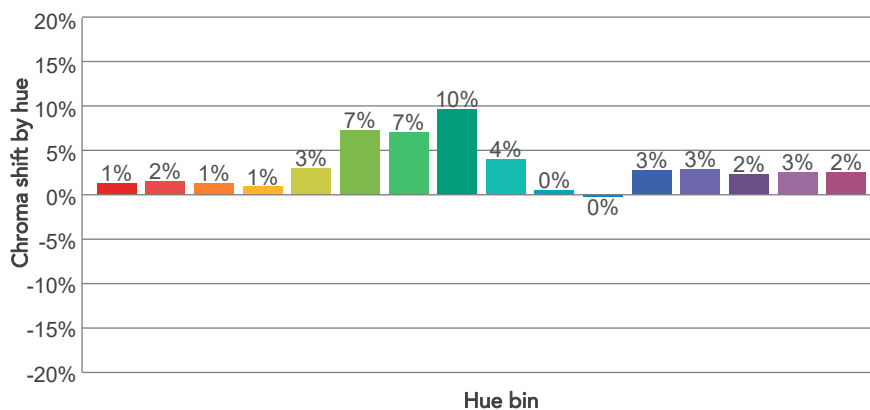
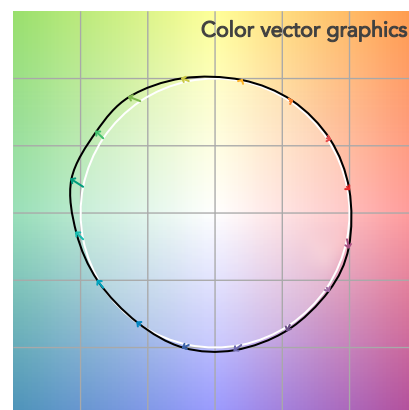
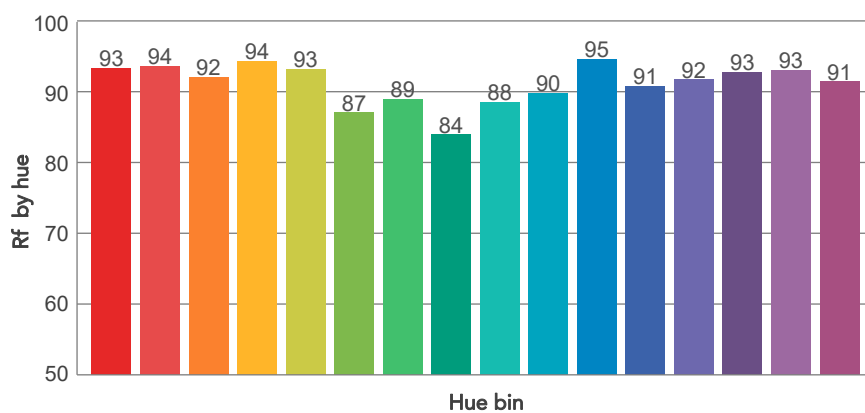
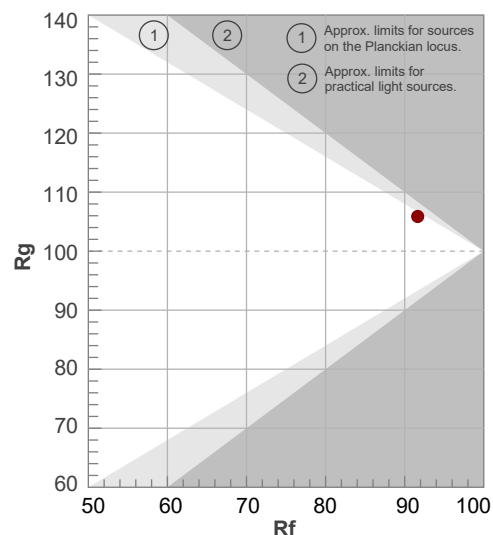
Rf 91,6

Fidelity index Rf

Rg 105,9

Gammut index

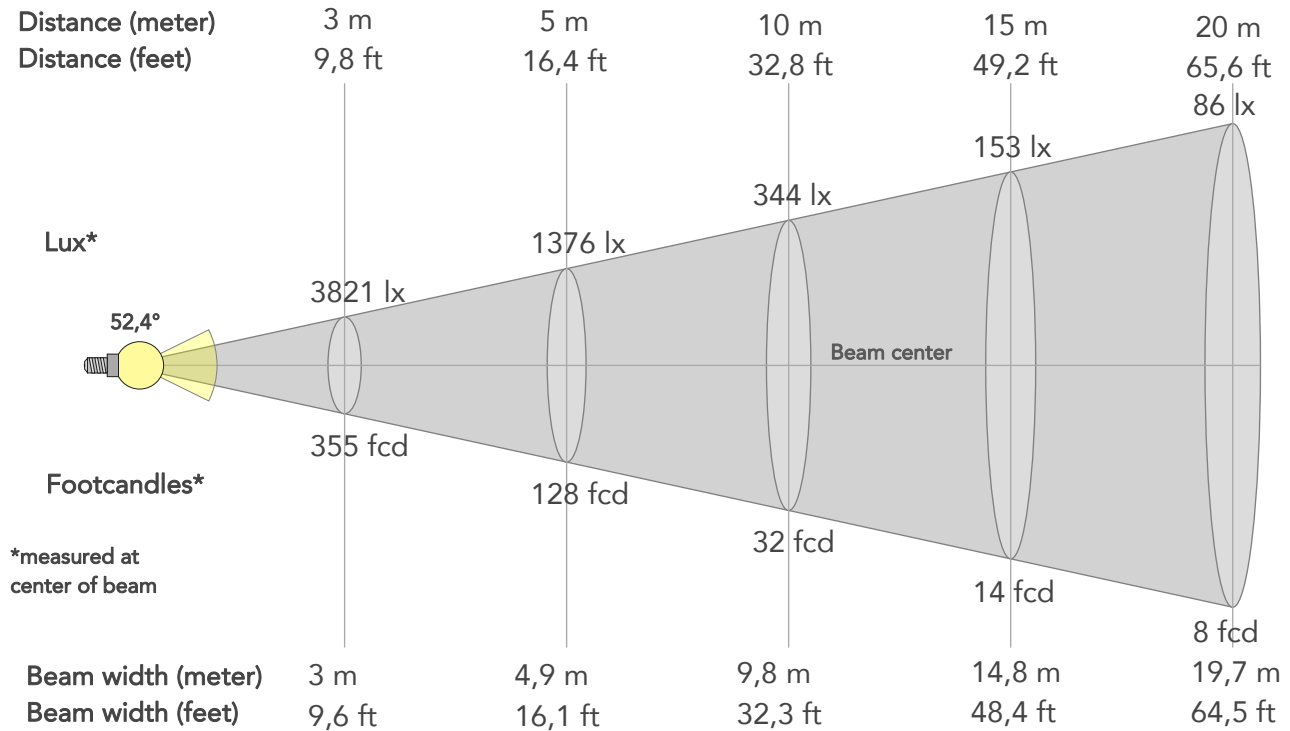
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	1%	-2%
2	94	2%	-2%
3	92	1%	-1%
4	94	1%	0%
5	93	3%	4%
6	87	7%	5%
7	89	7%	-1%
8	84	10%	-4%
9	88	4%	-6%
10	90	0%	-7%
11	95	0%	-3%
12	91	3%	-4%
13	92	3%	-6%
14	93	2%	-4%
15	93	3%	-1%
16	91	2%	-6%



BEAM DETAILS



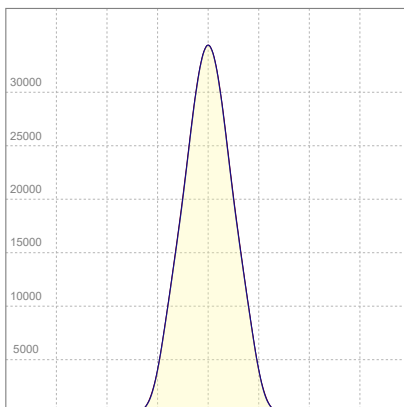
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	92,4°	108,2°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	34389lx	8597lx	3821lx	2149lx	1376lx	611lx	344lx	153lx	86lx	55lx	38lx	21lx	14lx
Footcand.	3195fcd	799fcd	355fcd	200fcd	128fcd	57fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,8m	14,8m	19,7m	24,6m	29,5m	39,3m	49,2m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,3ft	48,4ft	64,5ft	80,7ft	96,8ft	129,1ft	161,3ft

LINEAR DISTRIBUTION DIAGRAM

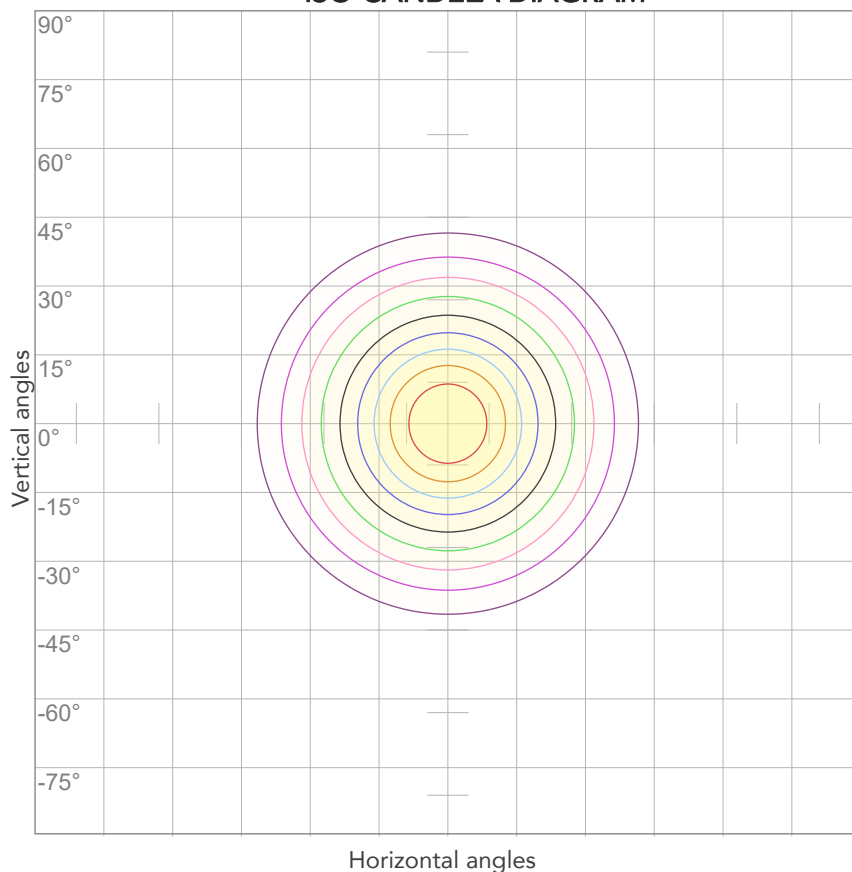


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	2,35A	535,4W	1,0	55lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



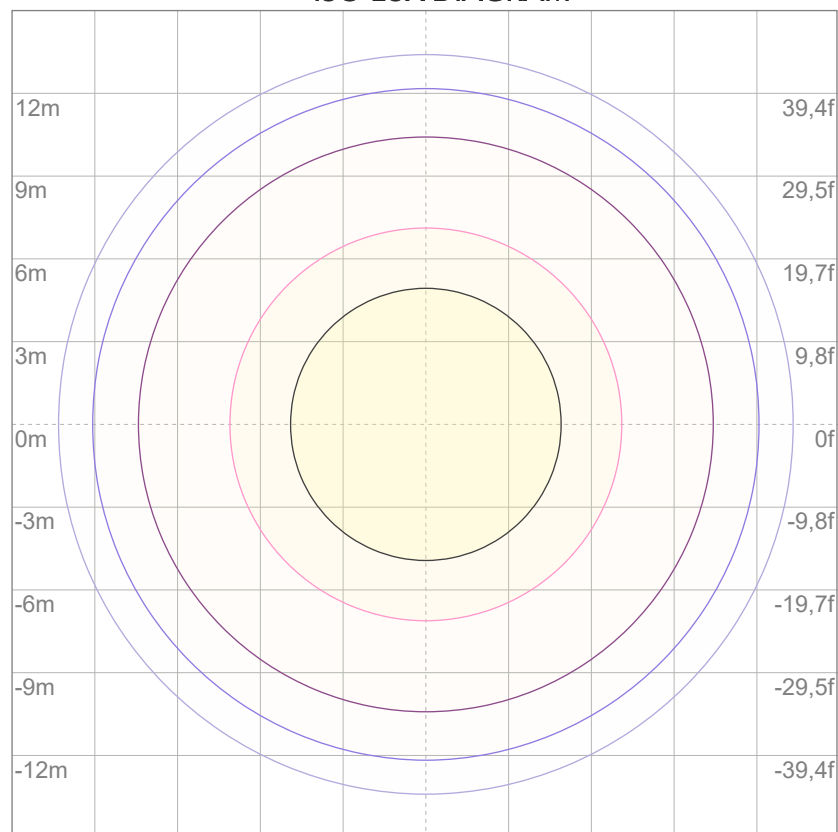
10%	3439 cd
20%	6878 cd
30%	10317 cd
40%	13756 cd
50%	17194 cd
60%	20633 cd
70%	24072 cd
80%	27511 cd

Conditions:

Number of c-planes: 4

Candela at center: 34389 cd

ISO LUX DIAGRAM



3%	10,3 lx
5%	17,2 lx
10%	34,4 lx
30%	103 lx
50%	172 lx

Conditions:

Number of c-planes: 4

Lux at center: 344 lx

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



Total lumen output:

30193 lm

Peak candela output:

35018 cd

Light quality:

CRI: 93,5

Color temperature:

3216 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

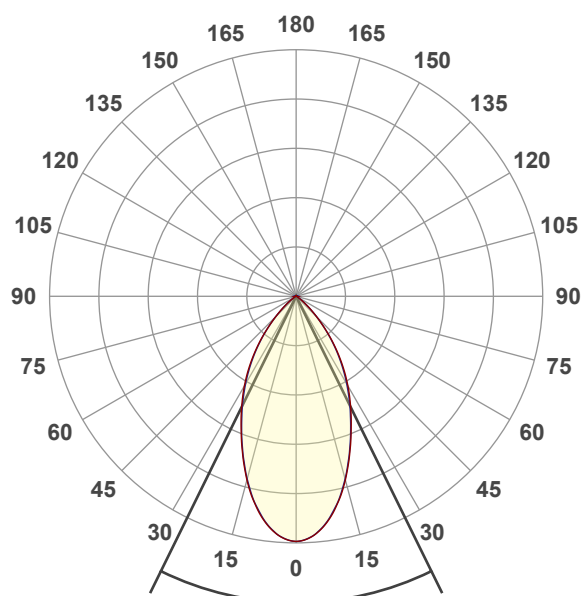
3200K

Operator:

Giglio Salvatore

Date and time:

25/08/2025 15:55:35

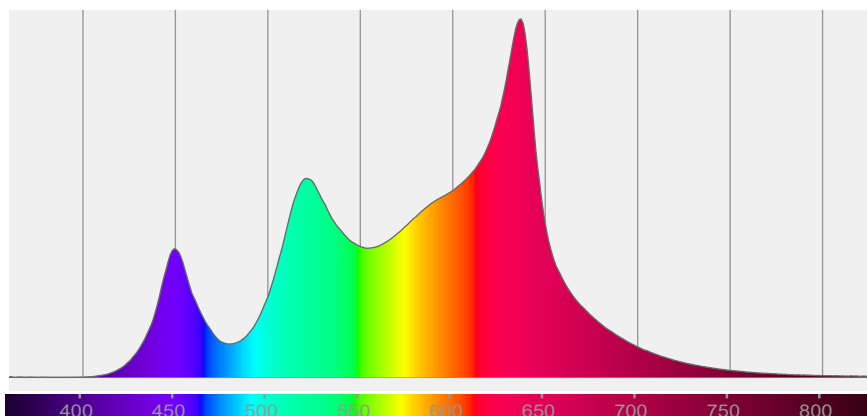


Beam angle 50%: 52,4°

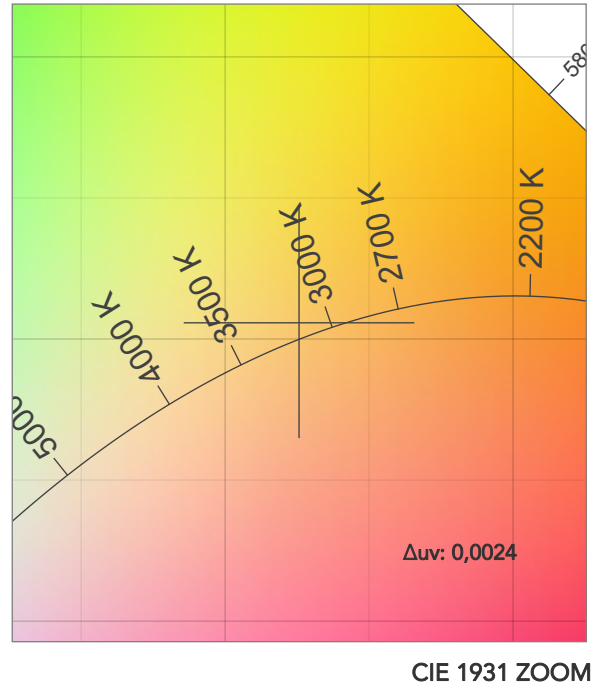
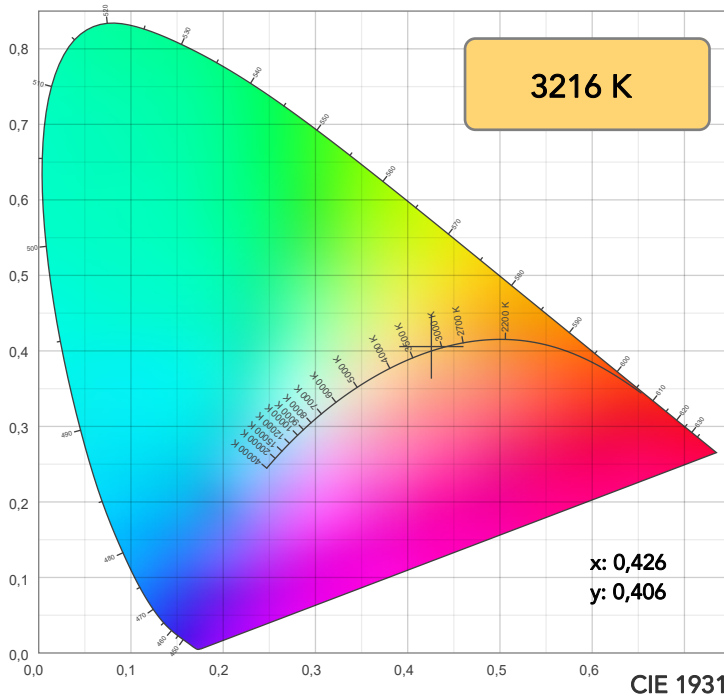
Field angle 10%: 92,4°

Cut off angle 2.5%: 108,2°

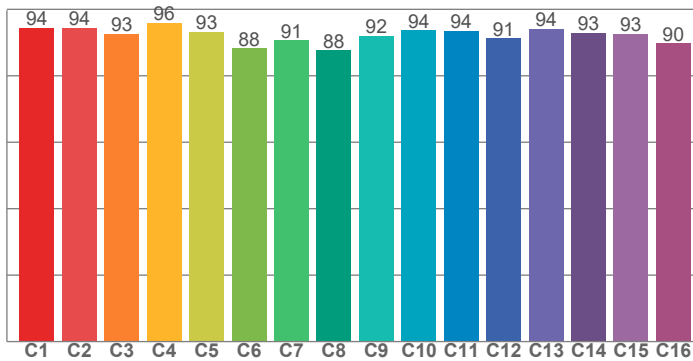
Spectra



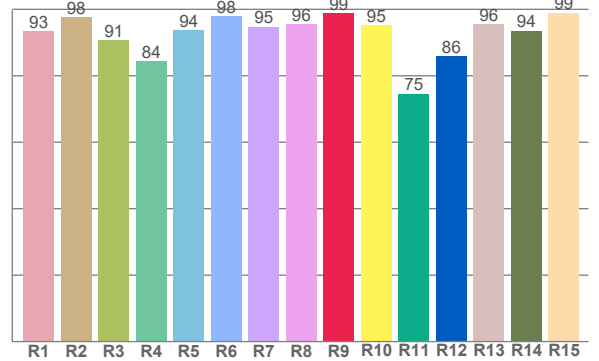
COLOR DETAILS



TM30: 92,7



CRI: 93,5 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,5	97,6	90,8	84,3	93,6	97,9	94,8	95,6	98,7	95,3	74,6	85,8	95,6	93,6	99,0

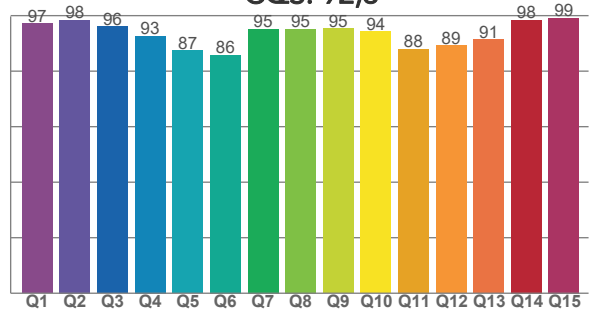
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	94,4	92,6	95,9	93,2	88,3	90,7	87,7	92,1	93,6	93,6	91,3	94,2	92,9	92,6	89,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,2	98,4	96,1	92,7	87,4	85,8	95,1	95,2	95,3	94,3	87,9	89,3	91,4	98,5	99,1

CQS: 92,3



COLOR PARAMETERS

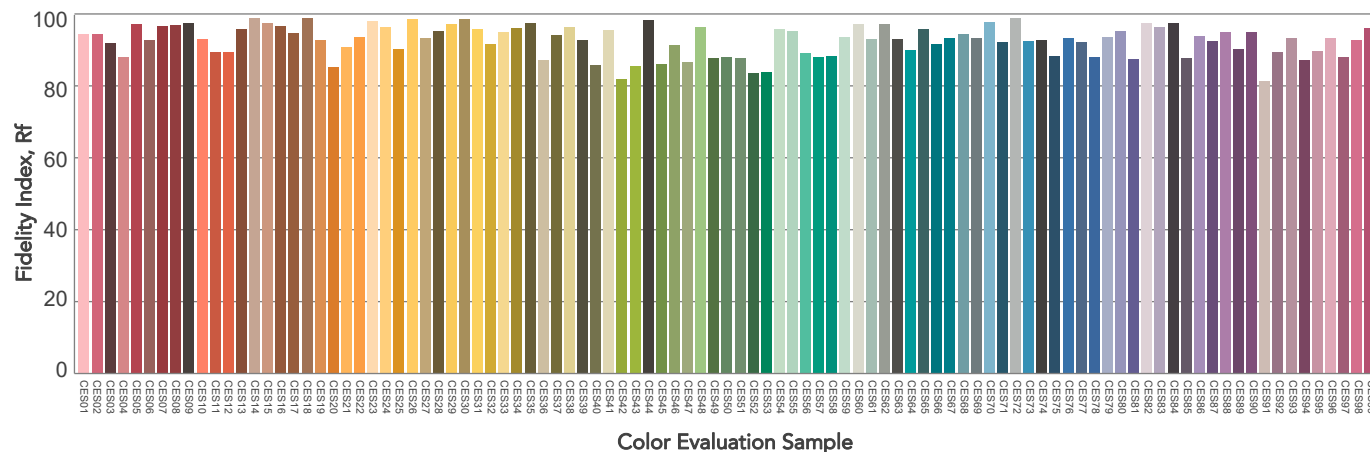
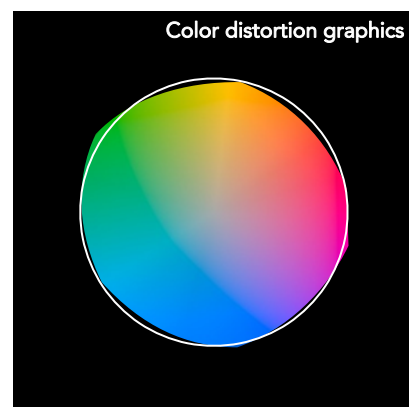
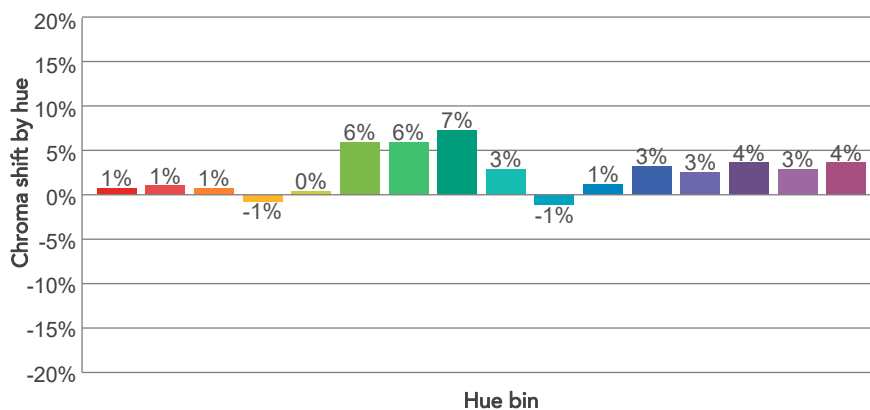
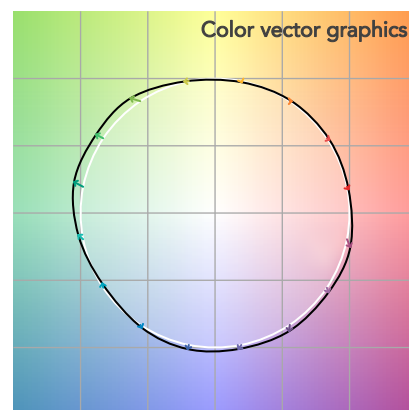
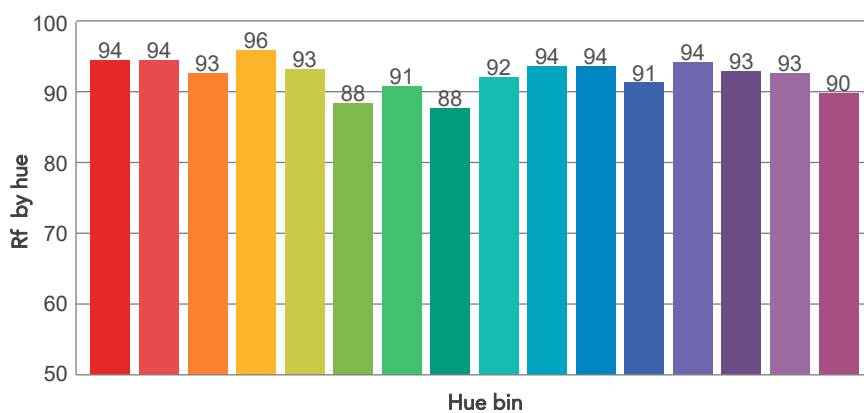
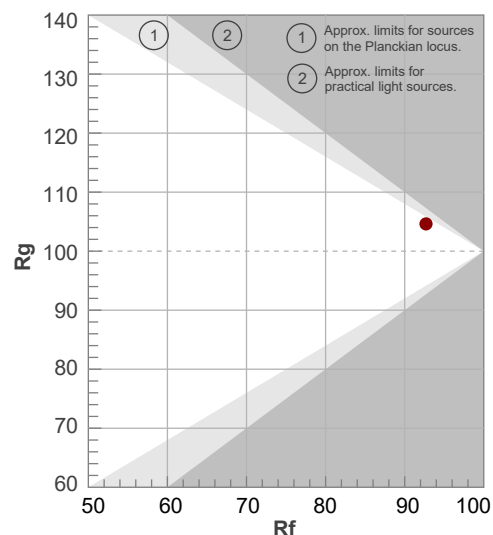
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3216 K	93,5	98,7	92,7	104,6	92,3	81	0,426	0,406	0,0024

TM30 DETAILS

Rf 92,7
Fidelity index Rf

Rg 104,6
Gammut index Rg

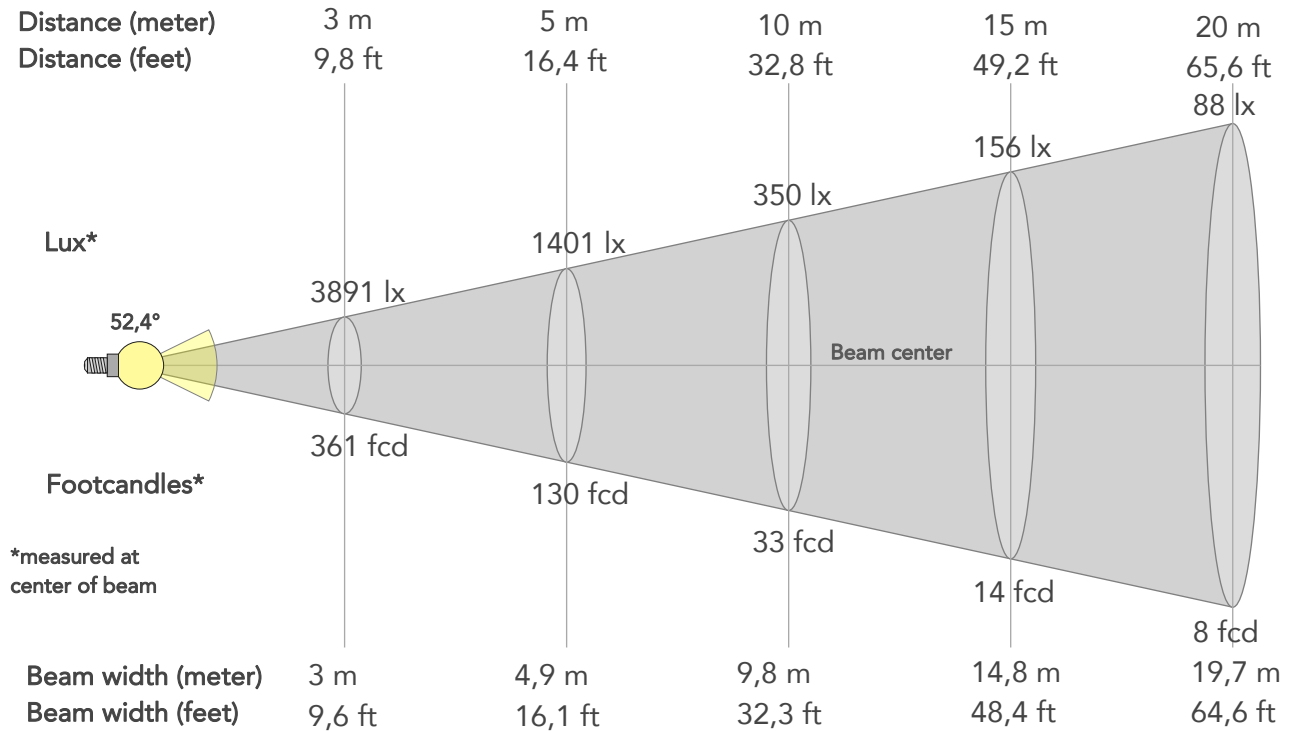
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	94	1%	-2%
3	93	1%	-1%
4	96	-1%	0%
5	93	0%	3%
6	88	6%	5%
7	91	6%	1%
8	88	7%	-2%
9	92	3%	-4%
10	94	-1%	-3%
11	94	1%	2%
12	91	3%	0%
13	94	3%	-3%
14	93	4%	-3%
15	93	3%	-2%
16	90	4%	-5%



BEAM DETAILS



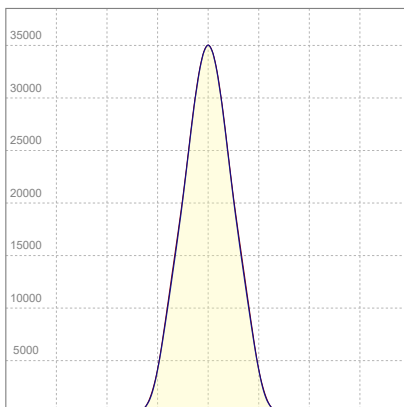
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	92,4°	108,2°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	35017lx	8754lx	3891lx	2189lx	1401lx	623lx	350lx	156lx	88lx	56lx	39lx	22lx	14lx
Footcand.	3253fcd	813fcd	361fcd	203fcd	130fcd	58fcd	33fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,8m	14,8m	19,7m	24,6m	29,5m	39,4m	49,2m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,3ft	48,4ft	64,6ft	80,7ft	96,8ft	129,1ft	161,4ft

LINEAR DISTRIBUTION DIAGRAM

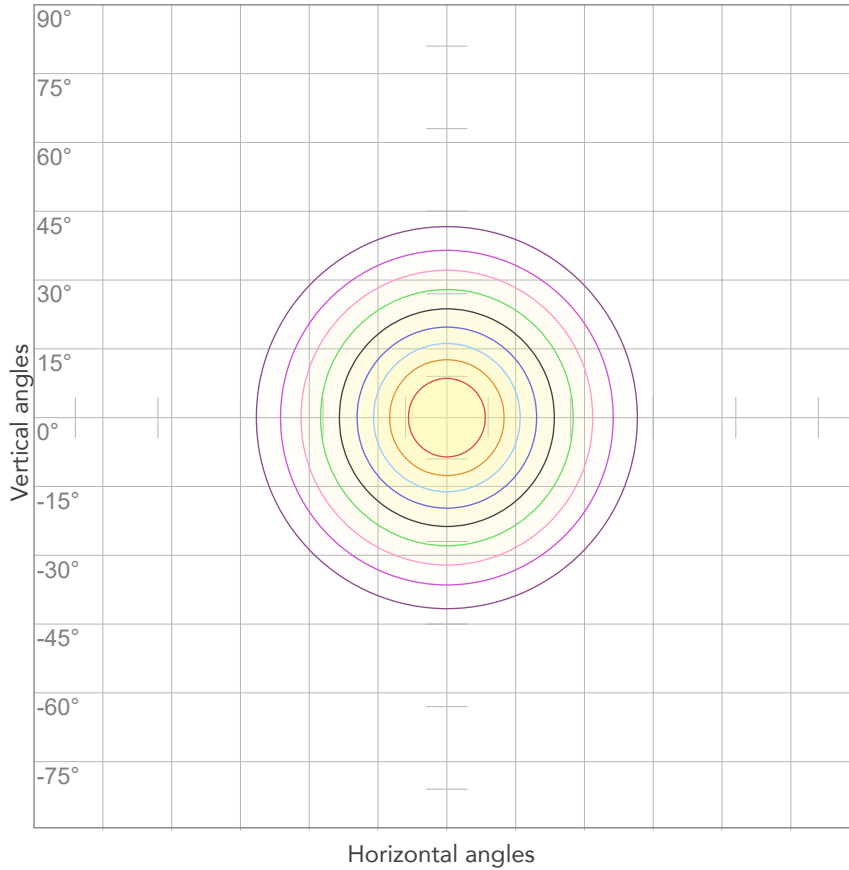


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	2,40A	548W	1,0	55lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



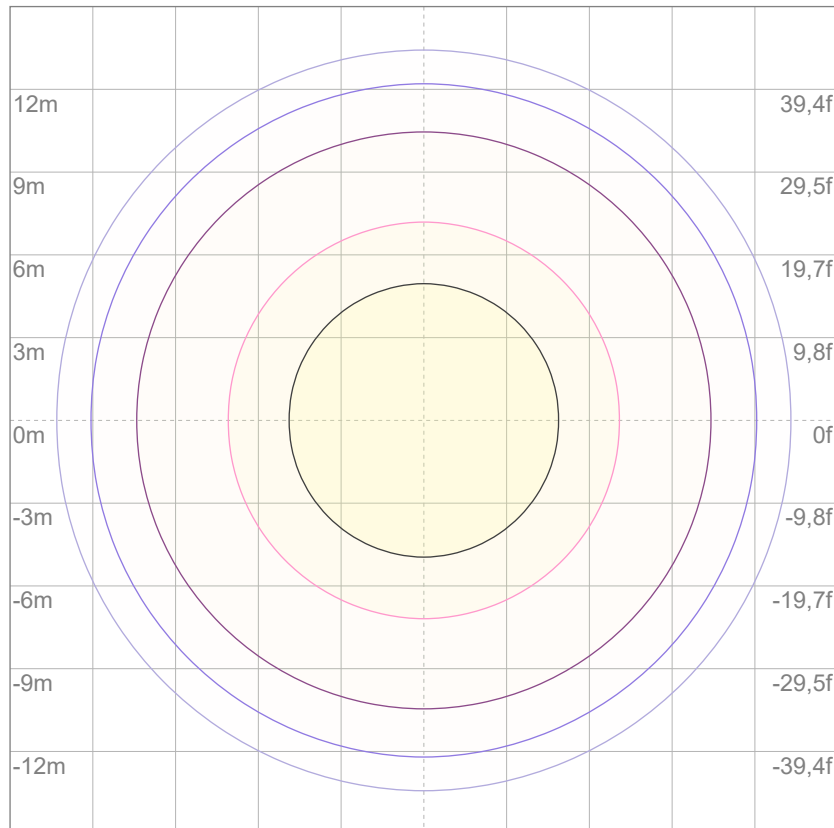
10%	3502 cd
20%	7003 cd
30%	10505 cd
40%	14007 cd
50%	17509 cd
60%	21010 cd
70%	24512 cd
80%	28014 cd

Conditions:

Number of c-planes: 4

Candela at center: 35017 cd

ISO LUX DIAGRAM



3%	10,5 lx
5%	17,5 lx
10%	35,0 lx
30%	105 lx
50%	175 lx

Conditions:

Number of c-planes: 4

Lux at center: 350 lx

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



Total lumen output:

30591 lm

Peak candela output:

35592 cd

Light quality:

CRI: 94,3

Color temperature:

4017 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

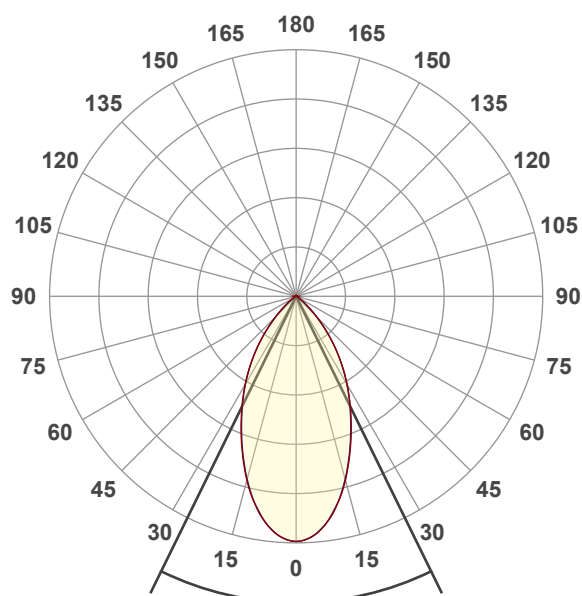
4000K

Operator:

Giglio Salvatore

Date and time:

25/08/2025 16:53:11

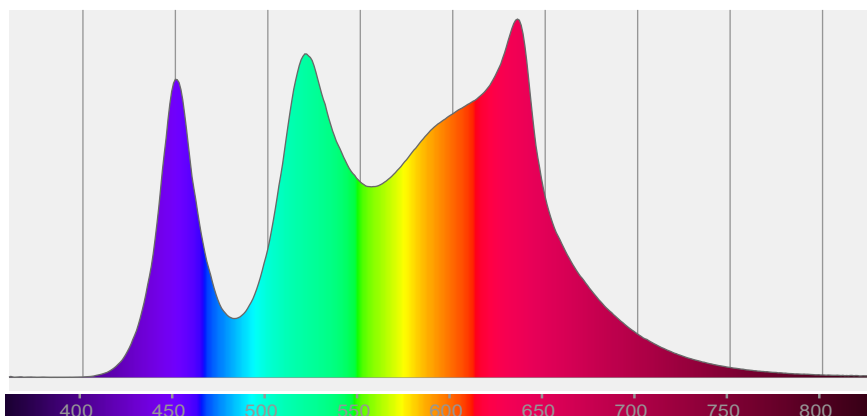


Beam angle 50%: 52,3°

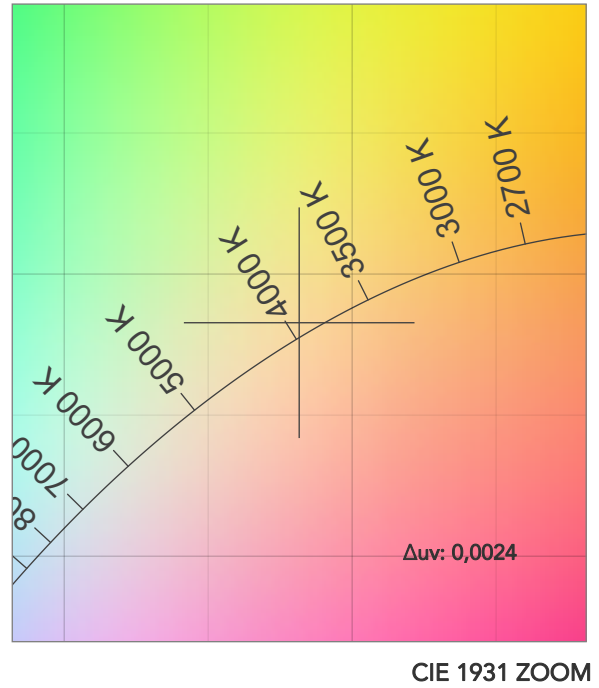
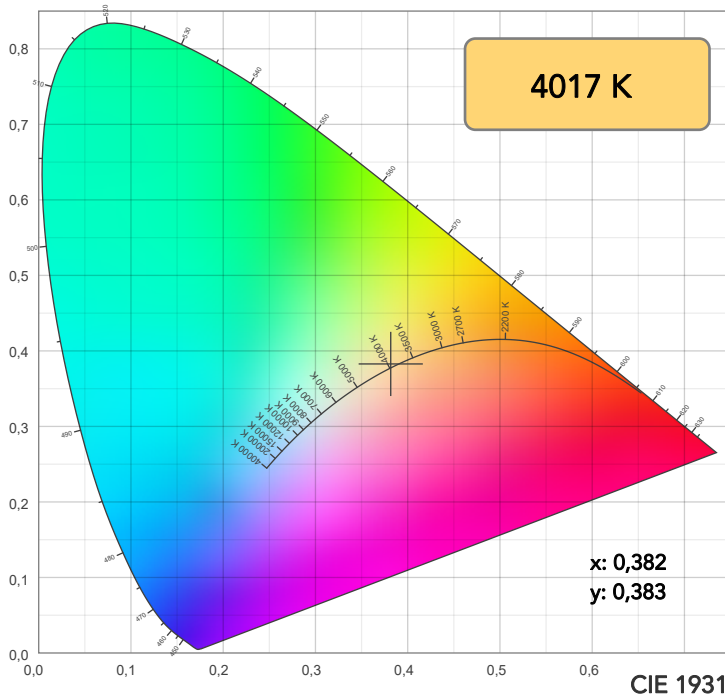
Field angle 10%: 92,3°

Cut off angle 2.5%: 108,2°

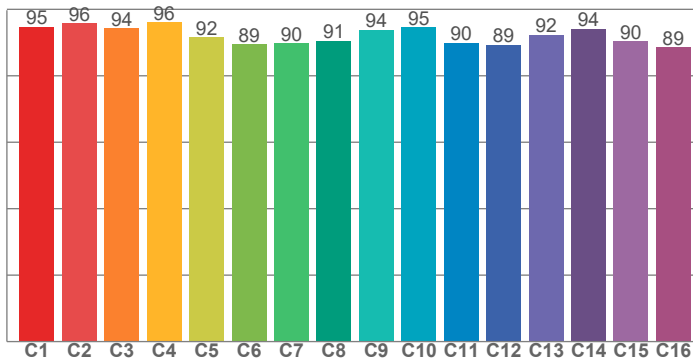
Spectra



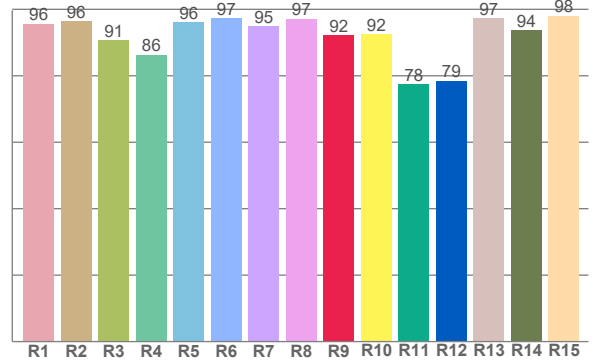
COLOR DETAILS



TM30: 92,4



CRI: 94,3 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,7	96,3	90,7	86,4	96,2	97,3	94,9	97,2	92,3	92,4	77,6	78,5	97,4	93,7	98,1

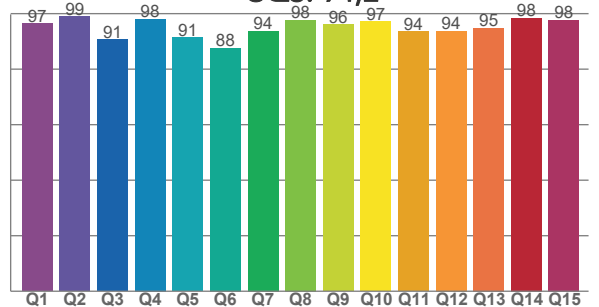
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	95,7	94,2	96,1	91,6	89,4	89,8	90,6	93,9	94,6	89,9	89,4	92,3	94,2	90,3	88,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,5	98,9	90,7	98,1	91,5	87,6	93,7	97,7	96,1	97,1	93,6	93,8	94,8	98,4	97,8

CQS: 94,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4017 K	94,3	92,3	92,4	104,8	94,2	83	0,382	0,383	0,0024

TM30 DETAILS

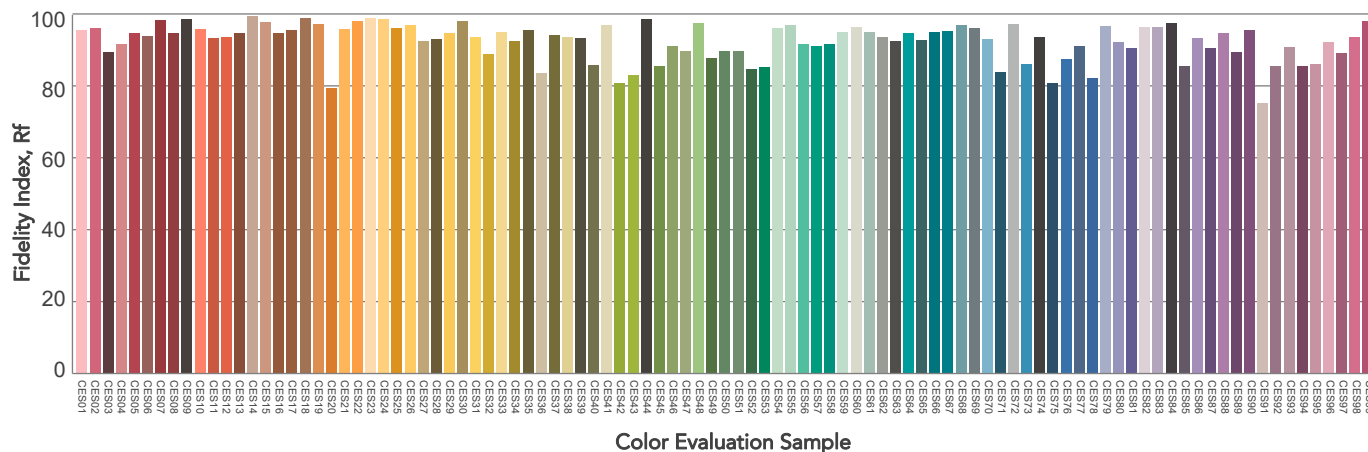
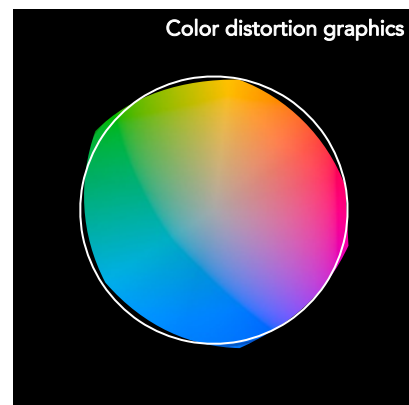
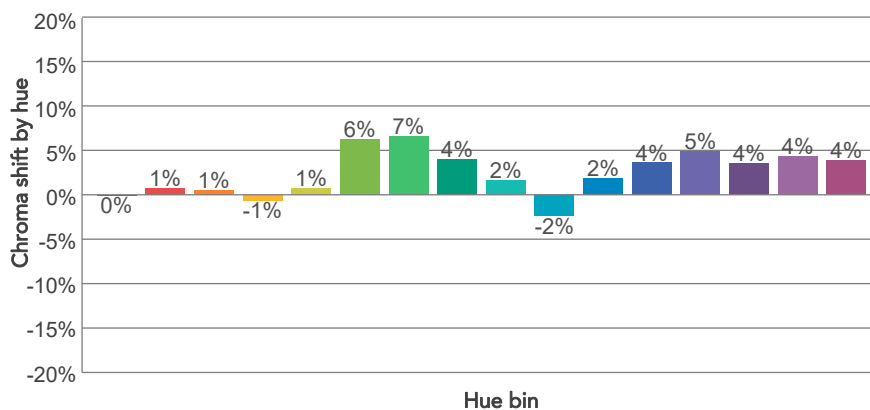
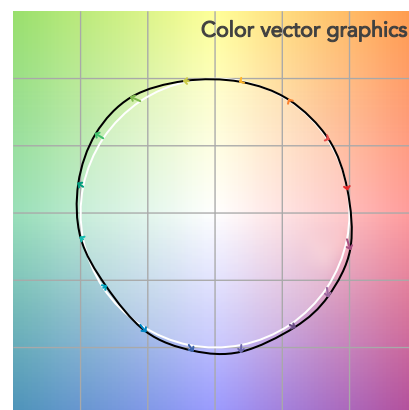
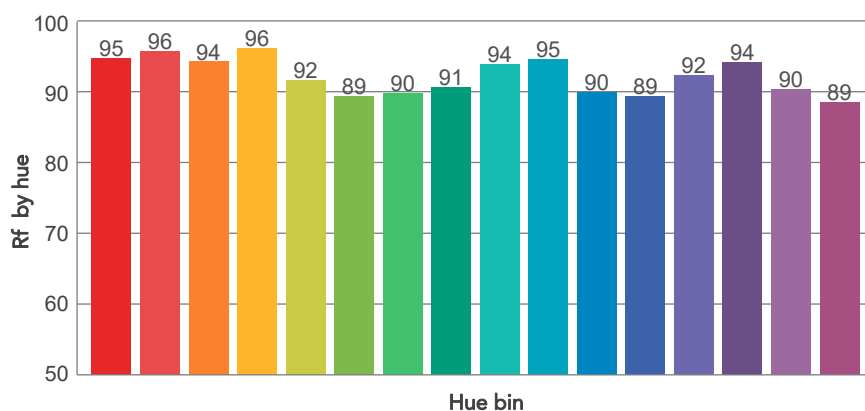
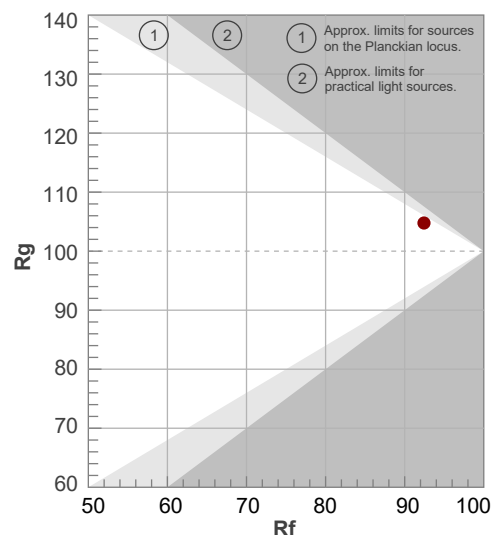
Rf 92,4

Fidelity index Rf

Rg 104,8

Gammut index

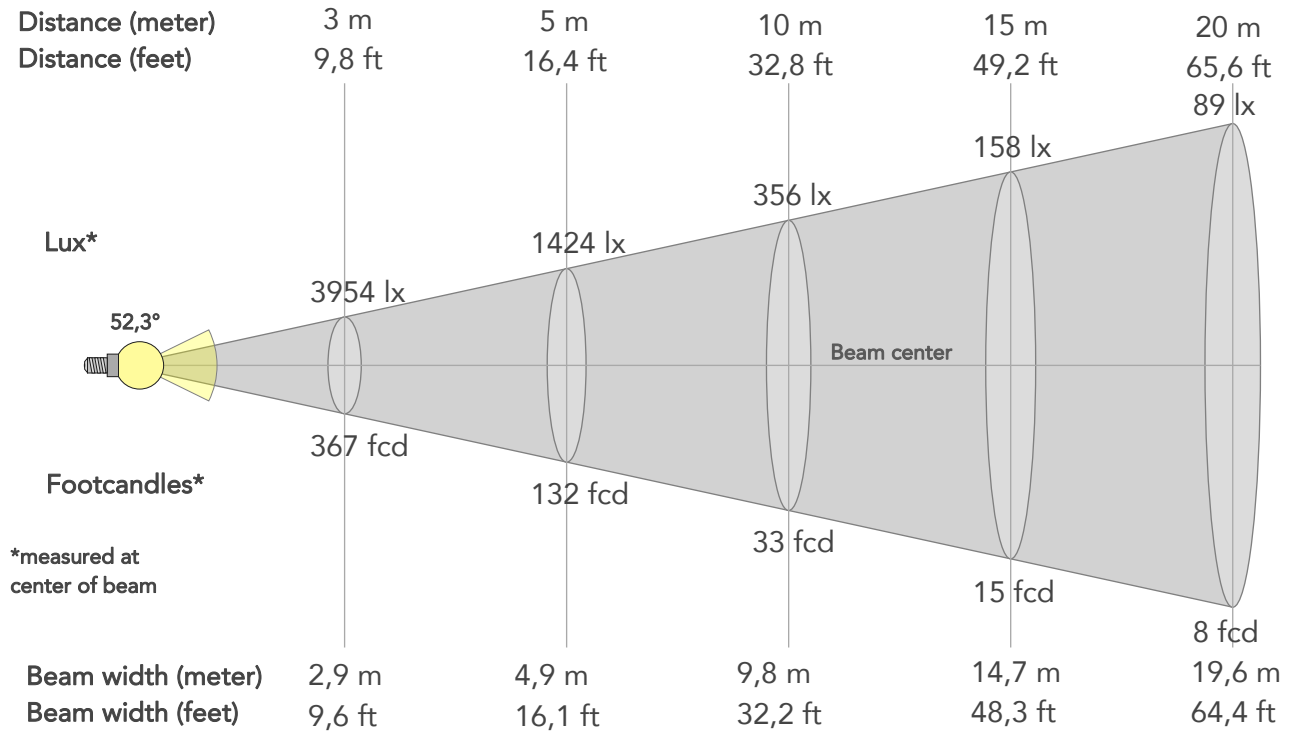
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-2%
2	96	1%	-1%
3	94	1%	1%
4	96	-1%	1%
5	92	1%	3%
6	89	6%	4%
7	90	7%	0%
8	91	4%	-2%
9	94	2%	-2%
10	95	-2%	0%
11	90	2%	6%
12	89	4%	4%
13	92	5%	-1%
14	94	4%	2%
15	90	4%	-5%
16	89	4%	-6%



BEAM DETAILS



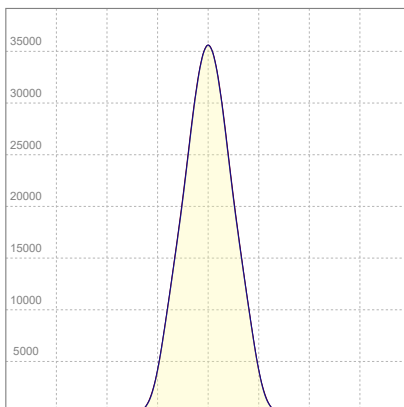
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,3°	92,3°	108,2°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	35588lx	8897lx	3954lx	2224lx	1424lx	633lx	356lx	158lx	89lx	57lx	40lx	22lx	14lx
Footcand.	3306fcd	827fcd	367fcd	207fcd	132fcd	59fcd	33fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	1m	2m	2,9m	3,9m	4,9m	7,4m	9,8m	14,7m	19,6m	24,5m	29,4m	39,3m	49,1m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,1ft	32,2ft	48,3ft	64,4ft	80,5ft	96,6ft	128,8ft	161ft

LINEAR DISTRIBUTION DIAGRAM

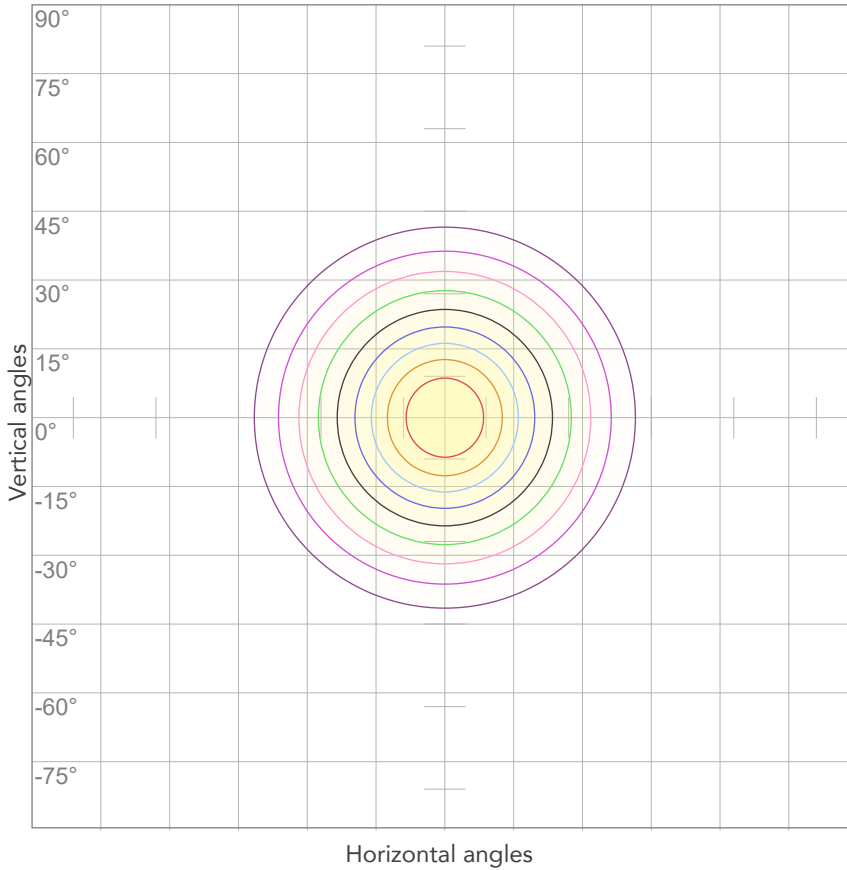


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	2,44A	550,8W	1,0	56lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



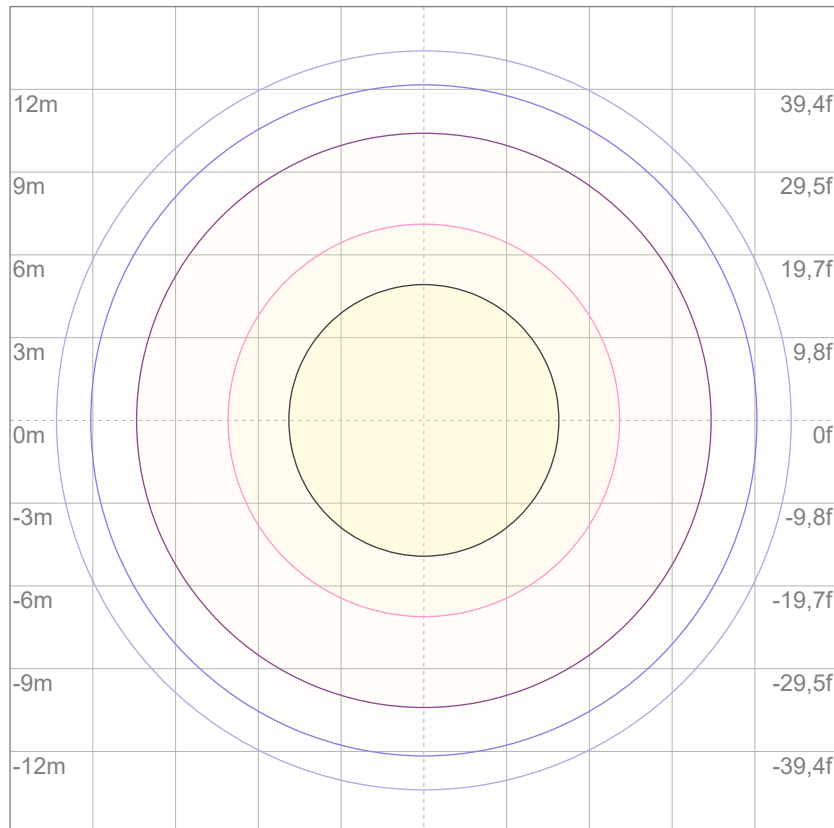
10%	3559 cd
20%	7118 cd
30%	10676 cd
40%	14235 cd
50%	17794 cd
60%	21353 cd
70%	24912 cd
80%	28471 cd

Conditions:

Number of c-planes: 4

Candela at center: 35588 cd

ISO LUX DIAGRAM



3%	10,7 lx
5%	17,8 lx
10%	35,6 lx
30%	107 lx
50%	178 lx

Conditions:

Number of c-planes: 4

Lux at center: 356 lx

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



Total lumen output:

29084 lm

Peak candela output:

33789 cd

Light quality:

CRI: 93,2

Color temperature:

5613 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

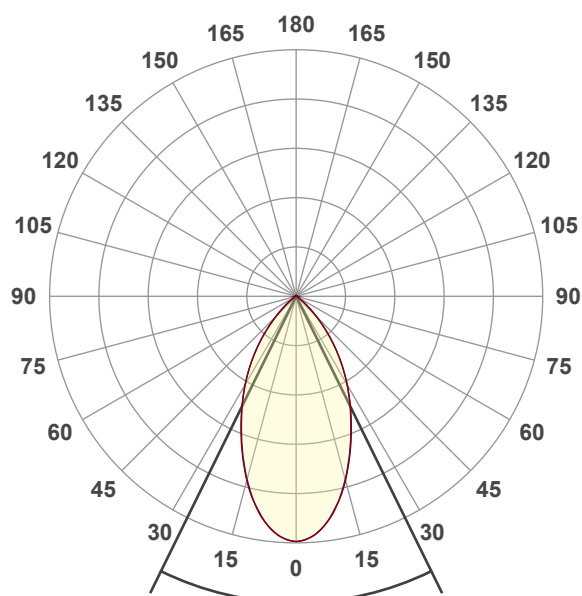
5600K

Operator:

Giglio Salvatore

Date and time:

25/08/2025 16:26:38

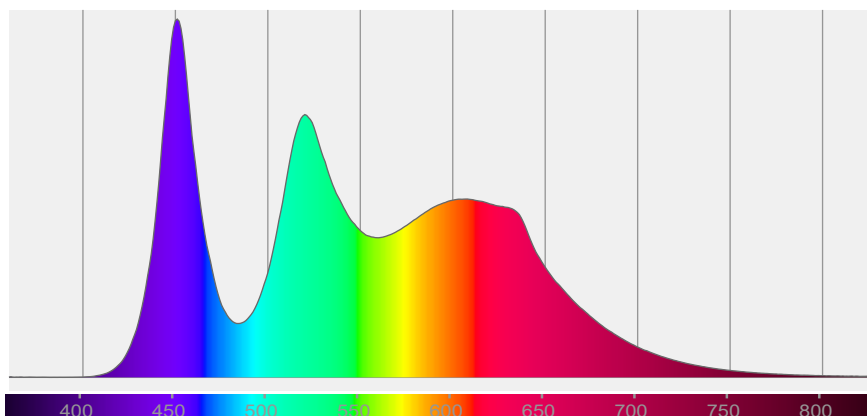


Beam angle 50%: 52,4°

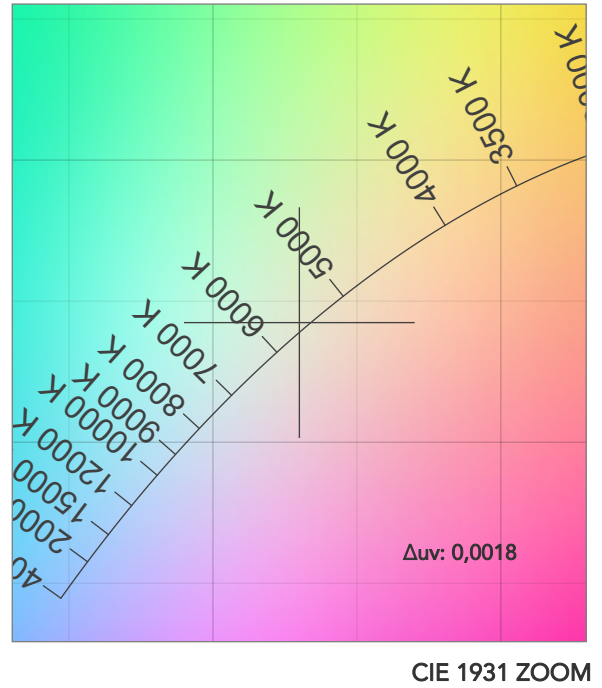
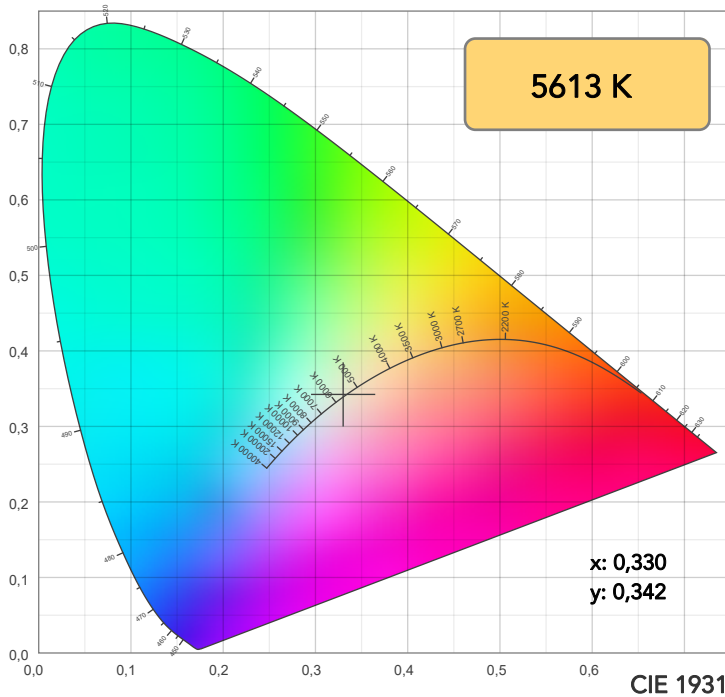
Field angle 10%: 92,3°

Cut off angle 2.5%: 108,3°

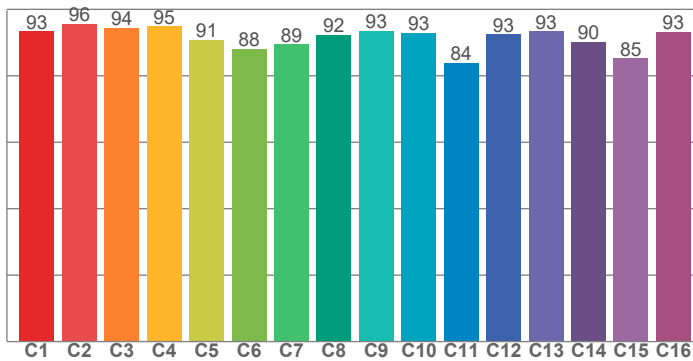
Spectra



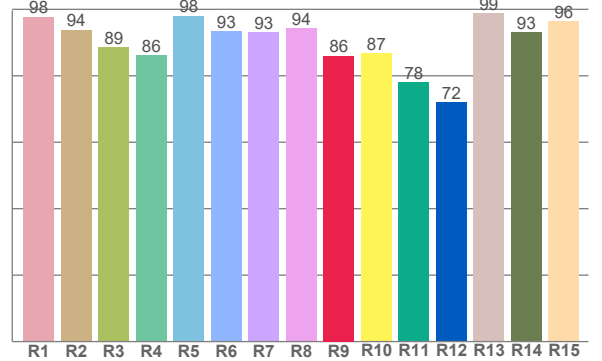
COLOR DETAILS



TM30: 91,3



CRI: 93,2 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,8	93,9	88,6	86,1	98,1	93,5	93,0	94,2	86,1	86,8	78,0	72,1	98,8	93,0	96,3

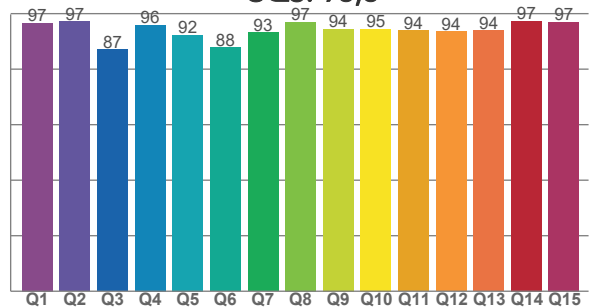
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	95,6	94,5	94,9	90,9	88,1	89,4	92,3	93,5	92,9	83,9	92,5	93,3	90,2	85,2	93,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	97,2	87,0	95,9	92,2	87,7	93,2	97,0	94,4	94,5	93,9	93,6	93,9	97,3	97,1

CQS: 93,3



COLOR PARAMETERS

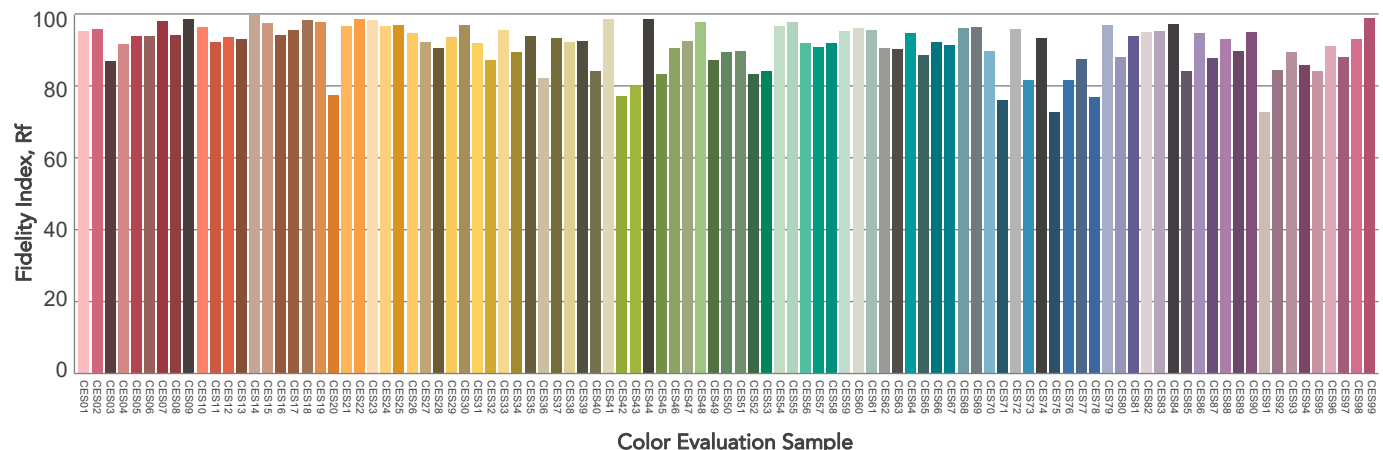
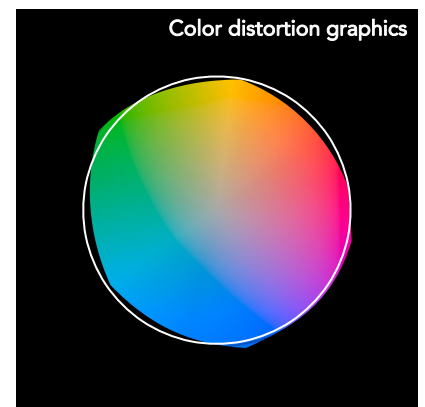
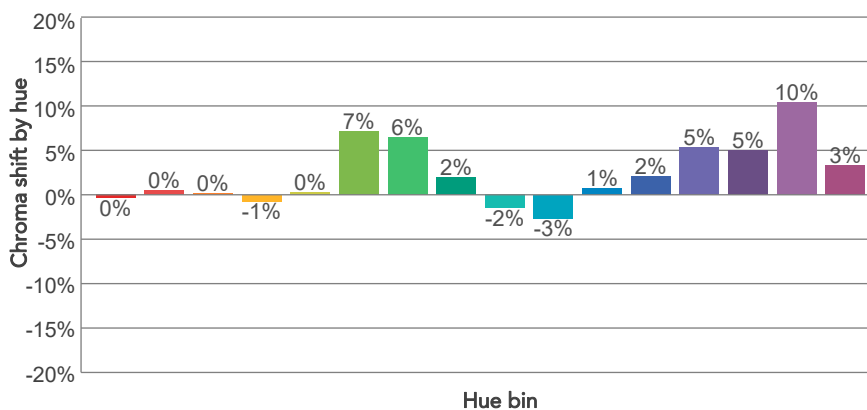
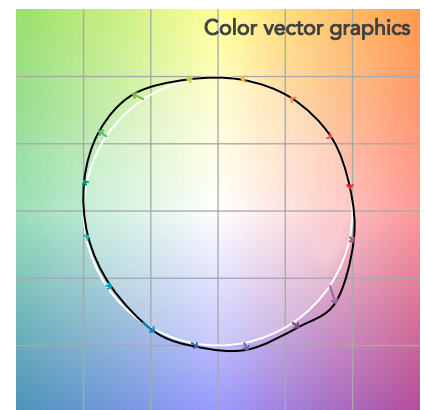
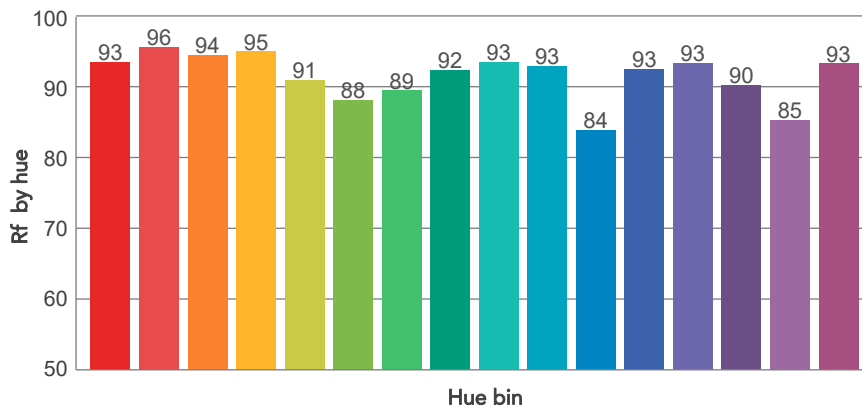
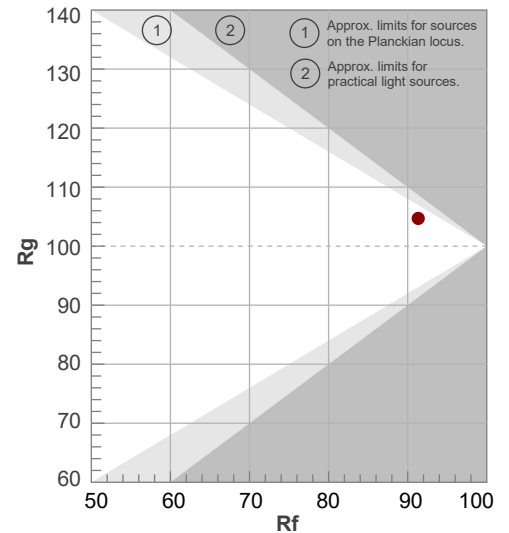
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5613 K	93,2	86,1	91,3	104,7	93,3	88	0,330	0,342	0,0018

TM30 DETAILS

Rf 91,3
Fidelity index Rf

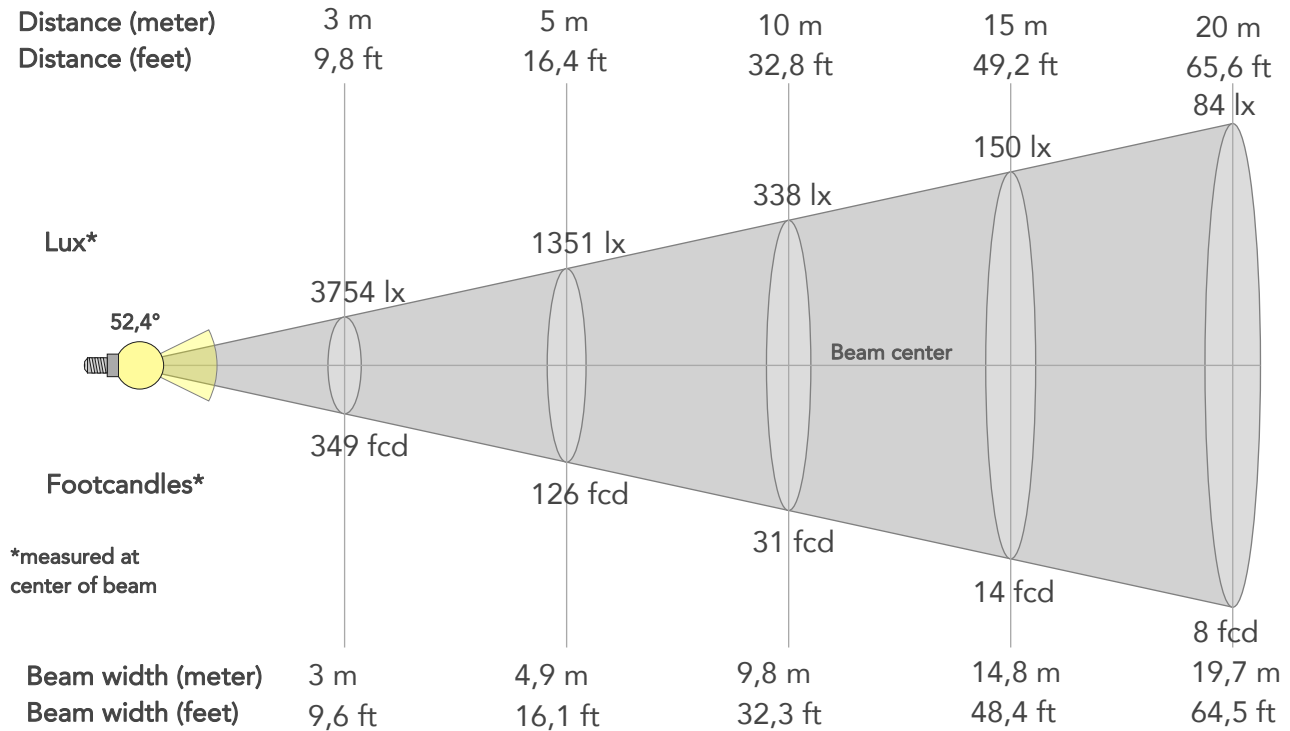
Rg 104,7
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-2%
2	96	0%	-1%
3	94	0%	1%
4	95	-1%	2%
5	91	0%	3%
6	88	7%	4%
7	89	6%	0%
8	92	2%	-3%
9	93	-2%	-1%
10	93	-3%	2%
11	84	1%	10%
12	93	2%	5%
13	93	5%	1%
14	90	5%	2%
15	85	10%	-8%
16	93	3%	-3%



BEAM DETAILS

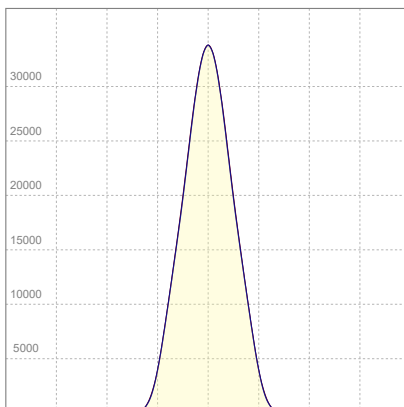
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	92,3°	108,3°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	33786lx	8447lx	3754lx	2112lx	1351lx	601lx	338lx	150lx	84lx	54lx	38lx	21lx	14lx
Footcand.	3139fcd	785fcd	349fcd	196fcd	126fcd	56fcd	31fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,8m	14,8m	19,7m	24,6m	29,5m	39,3m	49,2m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,3ft	48,4ft	64,5ft	80,6ft	96,8ft	129ft	161,3ft

LINEAR DISTRIBUTION DIAGRAM

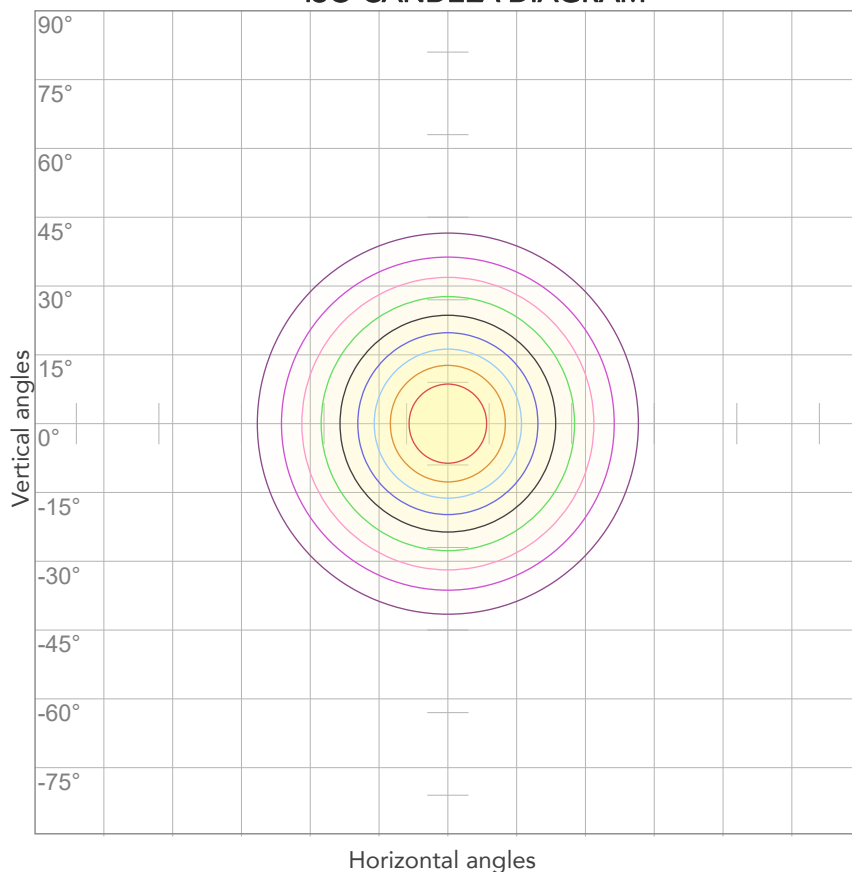


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	2,33A	525,5W	1,0	55lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



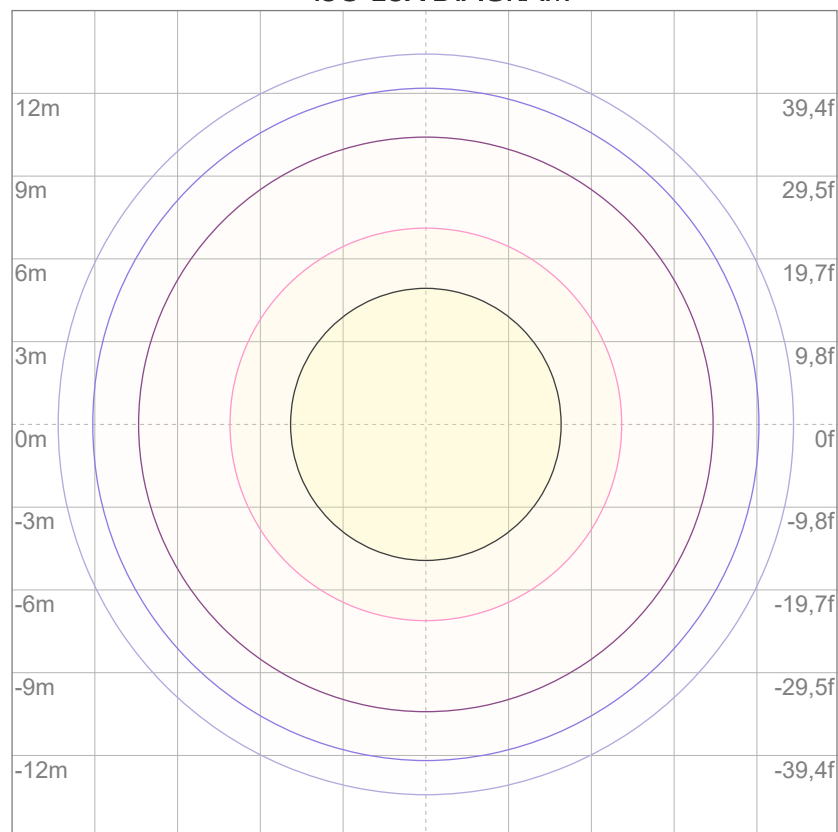
10%	3379 cd
20%	6757 cd
30%	10136 cd
40%	13514 cd
50%	16893 cd
60%	20272 cd
70%	23650 cd
80%	27029 cd

Conditions:

Number of c-planes: 4

Candela at center: 33786 cd

ISO LUX DIAGRAM



3%	10,1 lx
5%	16,9 lx
10%	33,8 lx
30%	101 lx
50%	169 lx

Conditions:

Number of c-planes: 4

Lux at center: 338 lx

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



Total lumen output:

29041 lm

Peak candela output:

33723 cd

Light quality:

CRI: 93,0

Color temperature:

6002 K

PRODUCT NAME:

SUNRISE2FLXFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

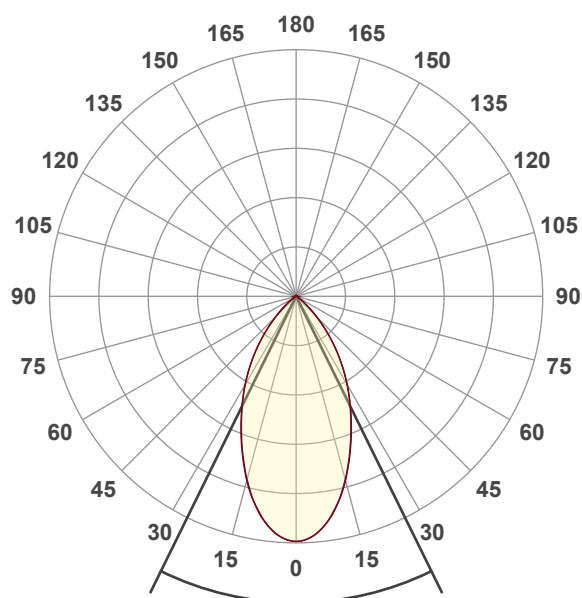
6000K

Operator:

Giglio Salvatore

Date and time:

25/08/2025 16:48:42

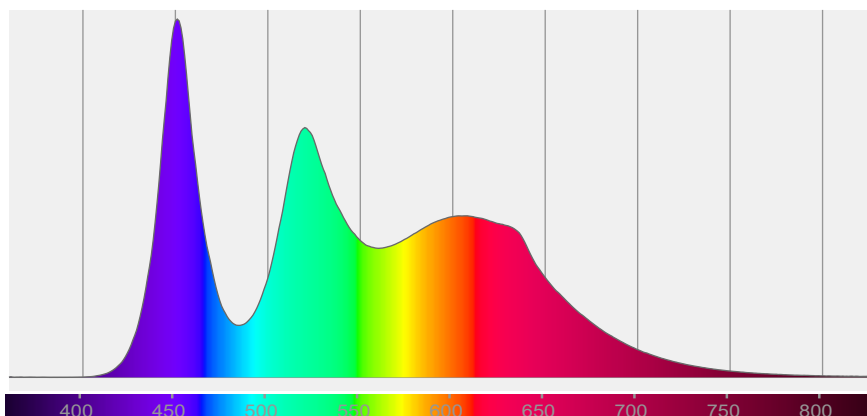


Beam angle 50%: 52,4°

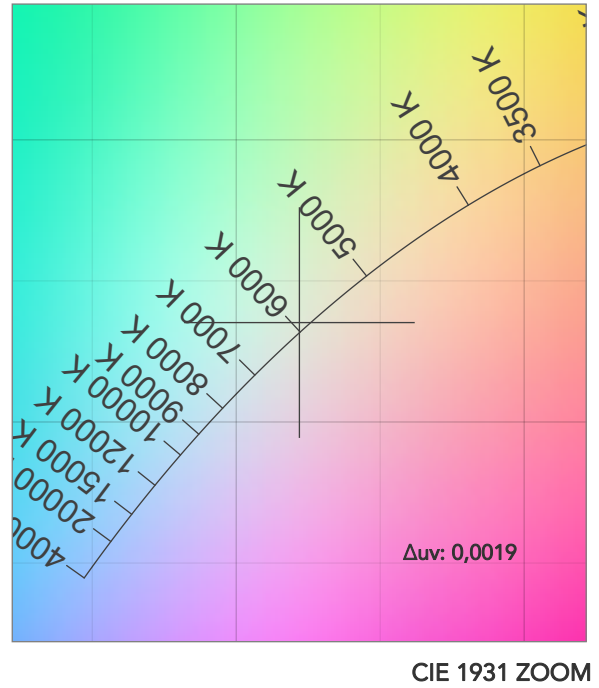
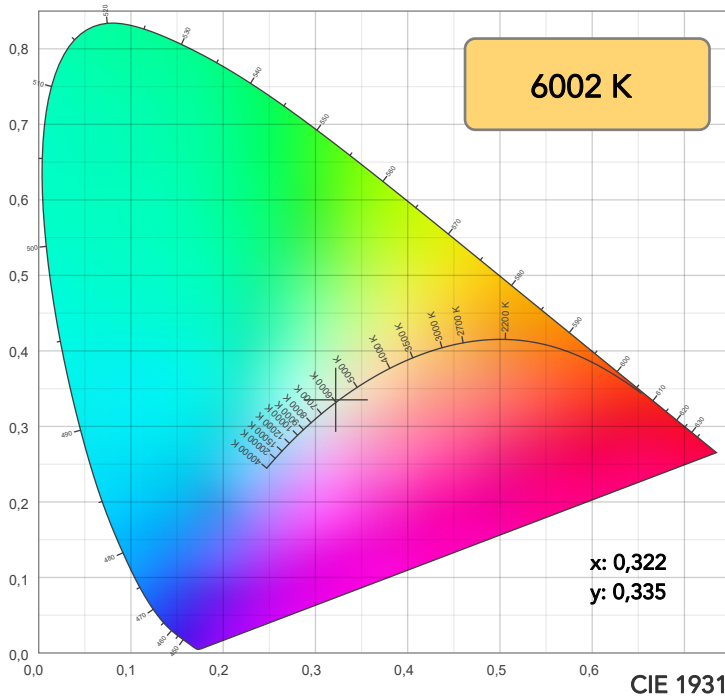
Field angle 10%: 92,3°

Cut off angle 2.5%: 108,3°

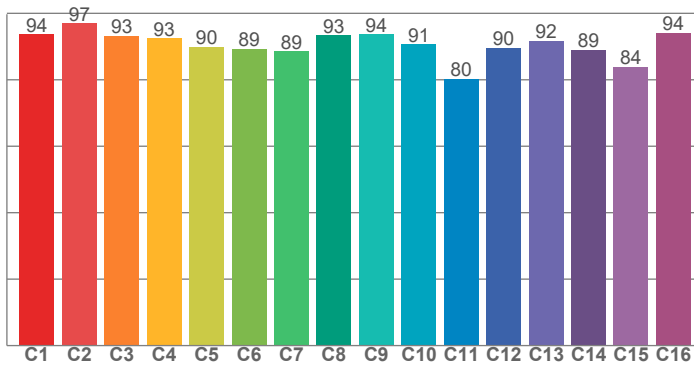
Spectra



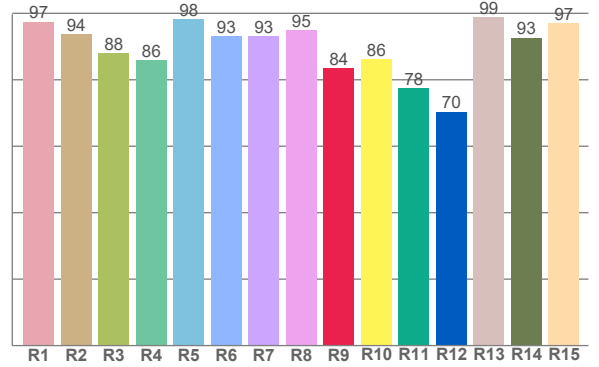
COLOR DETAILS



TM30: 90,5



CRI: 93,0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,5	93,7	87,9	85,9	98,2	93,1	93,0	94,9	83,5	86,3	77,5	70,4	98,9	92,7	97,1

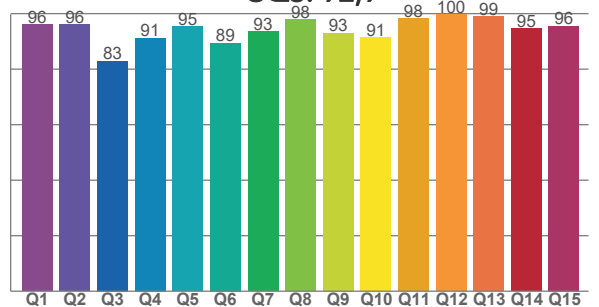
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,6	97,1	93,2	92,5	89,9	89,3	88,6	93,4	93,7	90,7	80,4	89,7	91,7	89,0	83,9	94,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	96,1	82,9	91,3	95,3	89,4	93,5	97,8	93,0	91,4	98,2	99,6	99,1	94,7	95,5

CQS: 92,9



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6002 K	93,0	83,5	90,5	105,1	92,9	88	0,322	0,335	0,0019

TM30 DETAILS

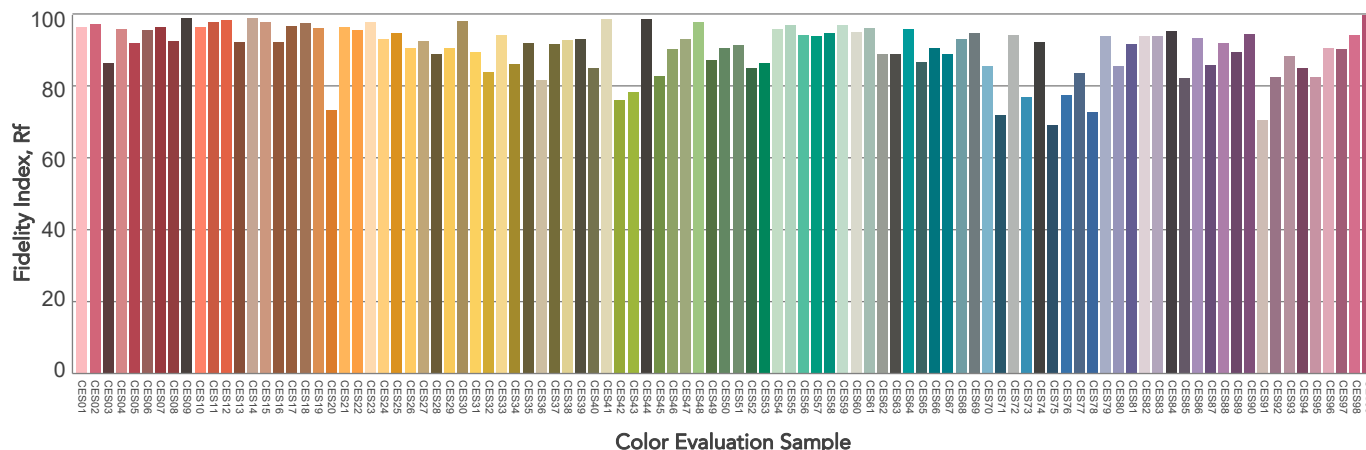
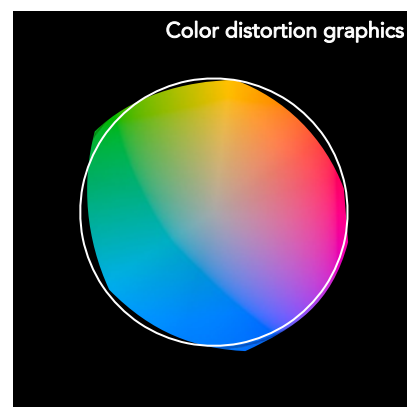
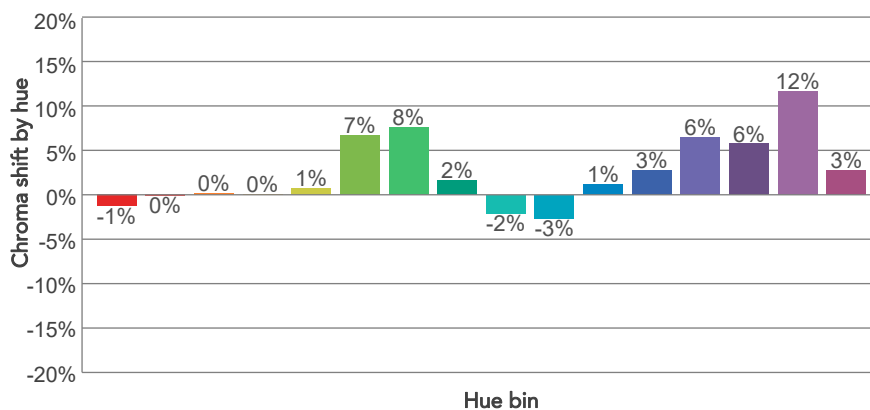
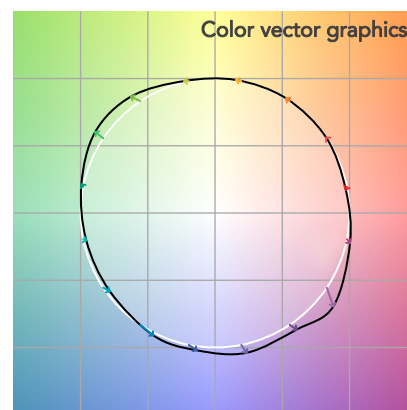
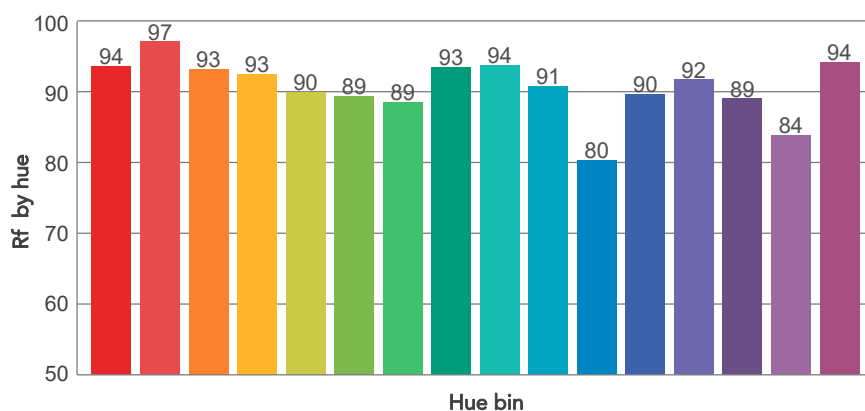
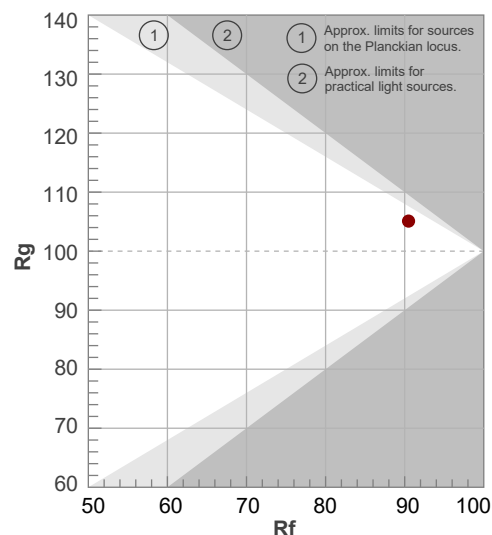
Rf 90,5

Fidelity index Rf

Rg 105,1

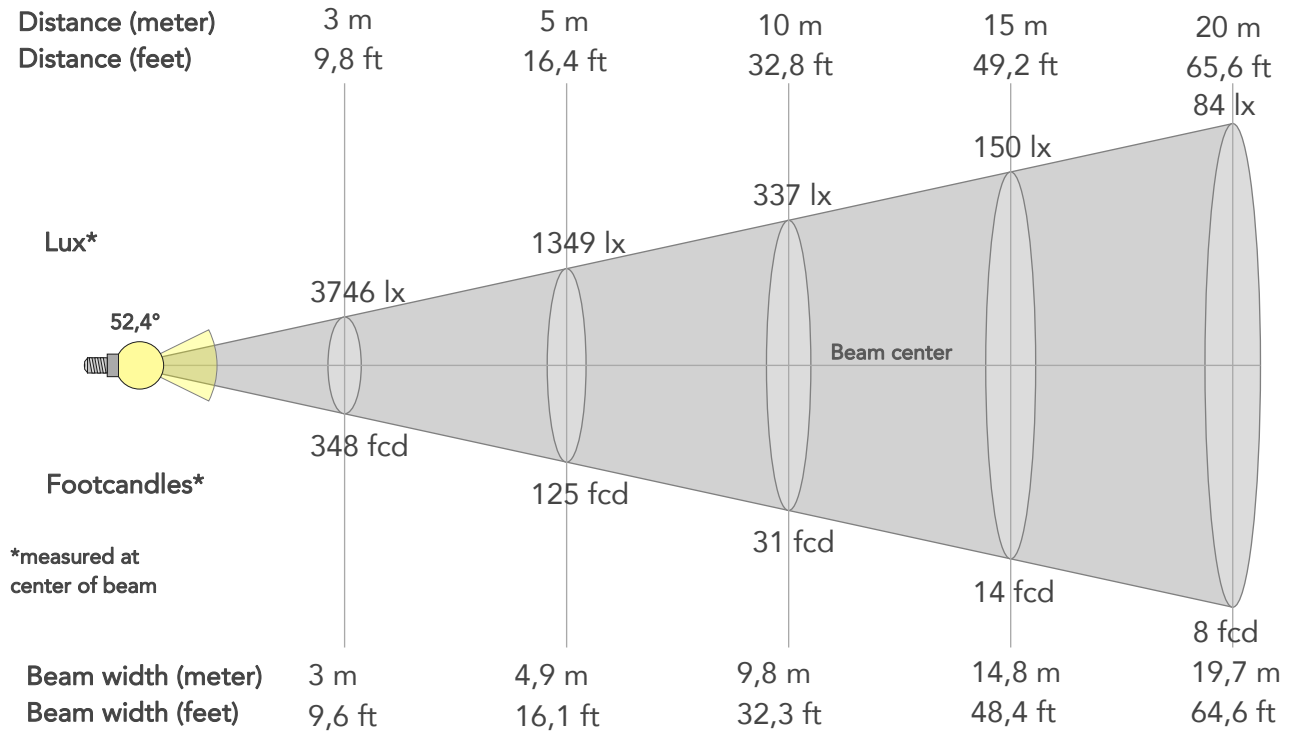
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-2%
2	97	0%	1%
3	93	0%	3%
4	93	0%	4%
5	90	1%	3%
6	89	7%	4%
7	89	8%	-1%
8	93	2%	-2%
9	94	-2%	1%
10	91	-3%	5%
11	80	1%	12%
12	90	3%	7%
13	92	6%	3%
14	89	6%	2%
15	84	12%	-9%
16	94	3%	-2%



BEAM DETAILS

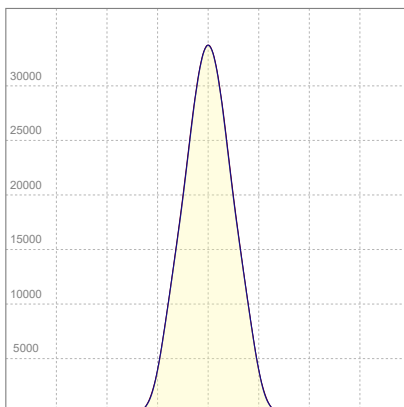
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52,4°	92,3°	108,3°	99,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	33716lx	8429lx	3746lx	2107lx	1349lx	599lx	337lx	150lx	84lx	54lx	37lx	21lx	13lx
Footcand.	3132fcd	783fcd	348fcd	196fcd	125fcd	56fcd	31fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	1m	2m	3m	3,9m	4,9m	7,4m	9,8m	14,8m	19,7m	24,6m	29,5m	39,4m	49,2m
Beam wid.	3,2ft	6,5ft	9,6ft	12,9ft	16,1ft	24,2ft	32,3ft	48,4ft	64,6ft	80,7ft	96,8ft	129,1ft	161,4ft

LINEAR DISTRIBUTION DIAGRAM

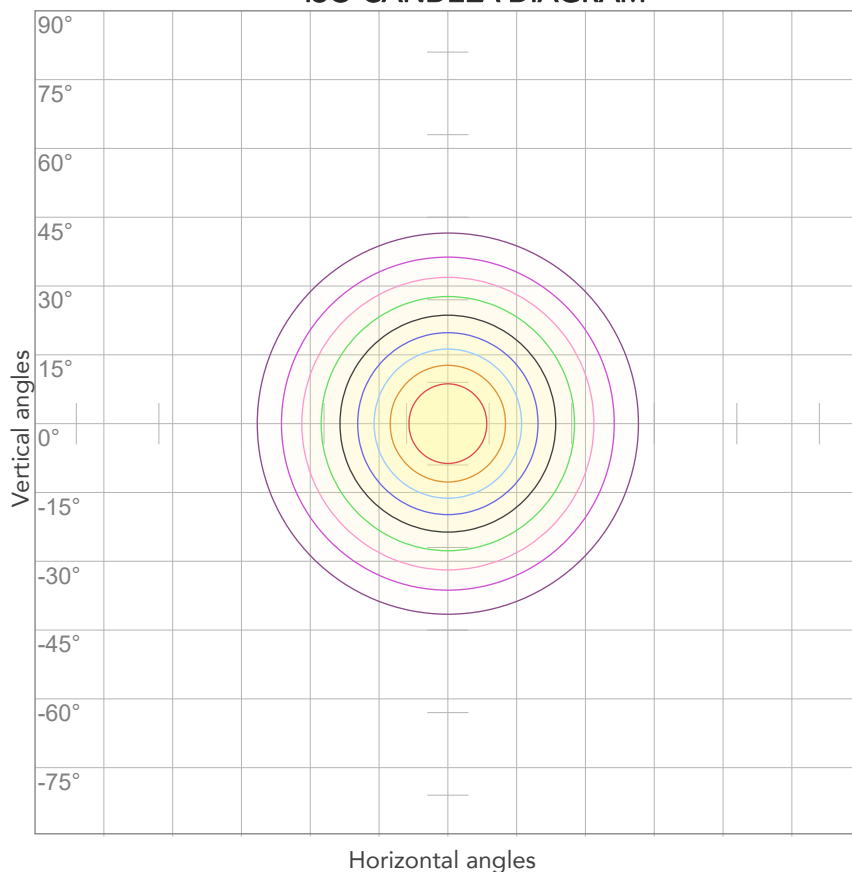


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	2,30A	519,8W	1,0	56lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



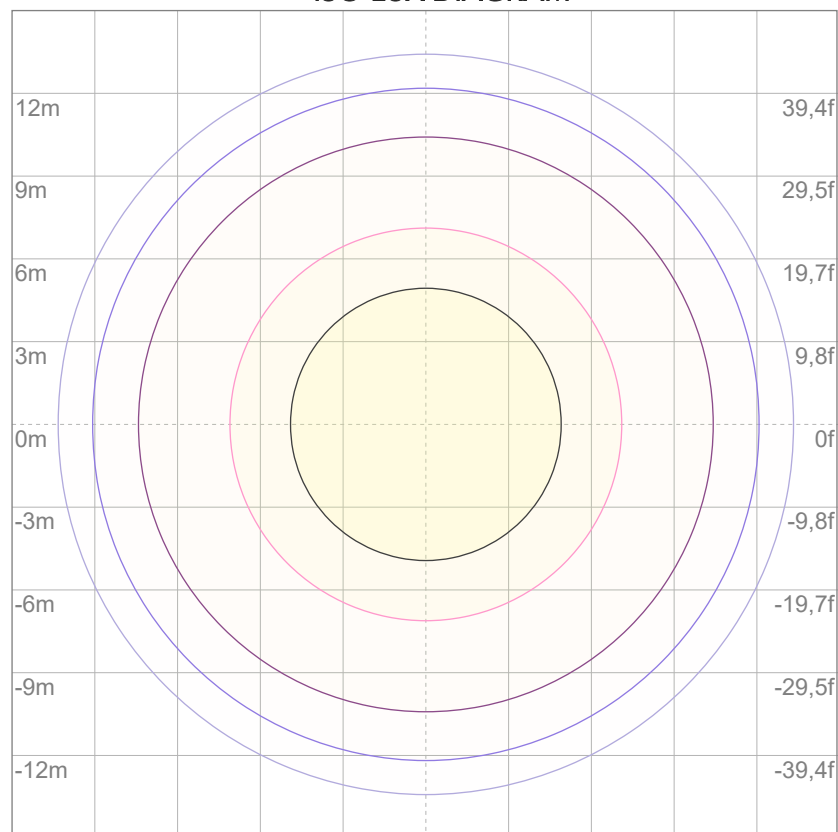
10%	3372 cd
20%	6743 cd
30%	10115 cd
40%	13486 cd
50%	16858 cd
60%	20229 cd
70%	23601 cd
80%	26972 cd

Conditions:

Number of c-planes: 4

Candela at center: 33716 cd

ISO LUX DIAGRAM



3%	10,1 lx
5%	16,9 lx
10%	33,7 lx
30%	101 lx
50%	169 lx

Conditions:

Number of c-planes: 4

Lux at center: 337 lx

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