



Photometric Test Report



ECLPENDANT S FC

50W RGB + Warm White House Light
with Passive Cooling

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Beam angle 20° 101

Beam angle 40° 106

Beam angle 60° 111

Color preset 6000K

Beam angle 20° 116

Beam angle 40° 121

Beam angle 60° 126

Color preset 6500K

Beam angle 20° 131

Beam angle 40° 136

Beam angle 60° 141

Color preset 1000K

Beam angle 20° 146

Beam angle 40° 151

Beam angle 60° 156

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:

2637 lm

Peak candela output:

12832 cd

Light quality:

CRI: 92,3

Color temperature:

6433 K

PRODUCT NAME:
ECLPENDANTS FC

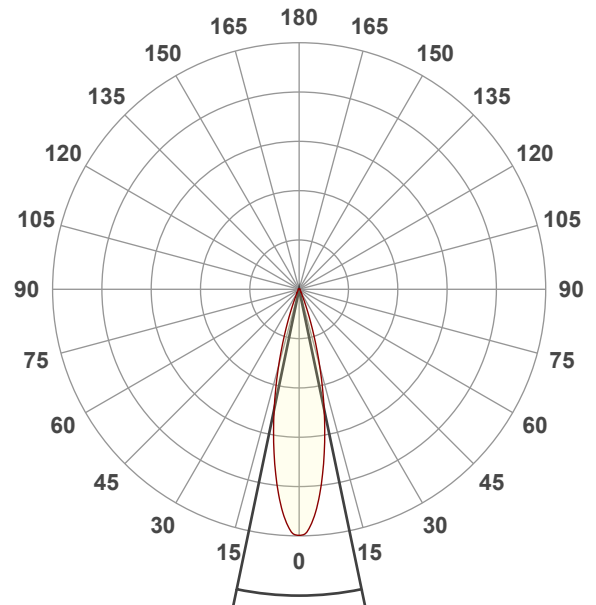
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Full On

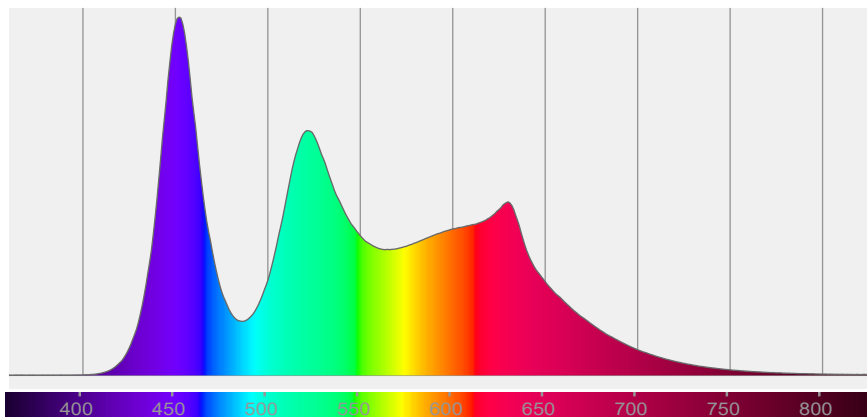
Operator:
Salvatore Giglio

Date and time:
06/02/2024 15:31:17

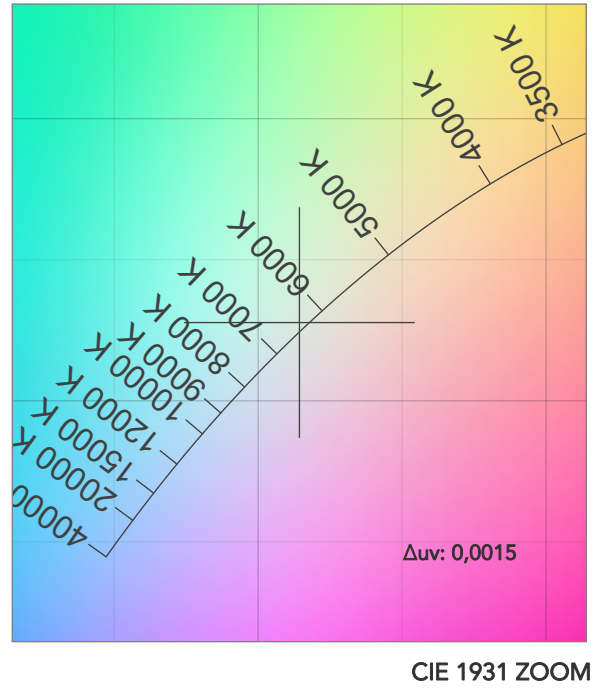
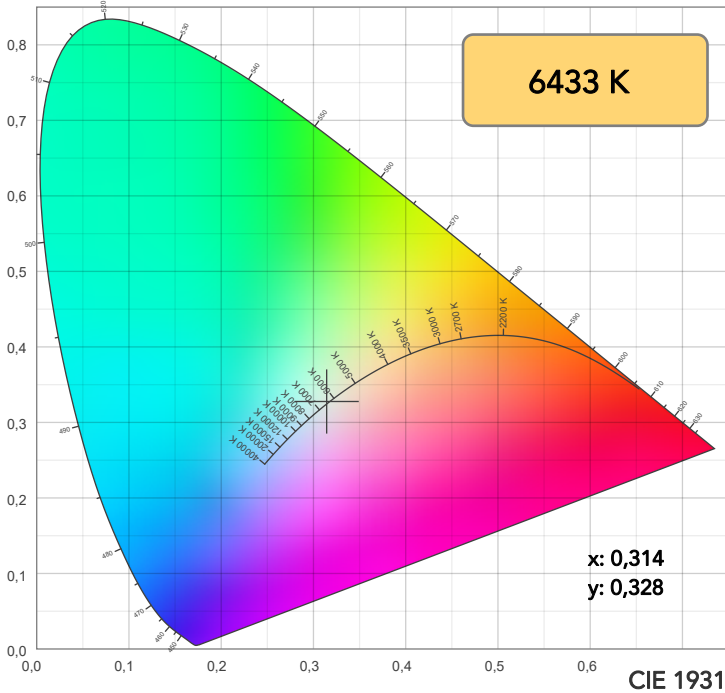


Beam angle 50%: 23,5°
Field angle 10%: 41,6°
Cut off angle 2.5%: 55°

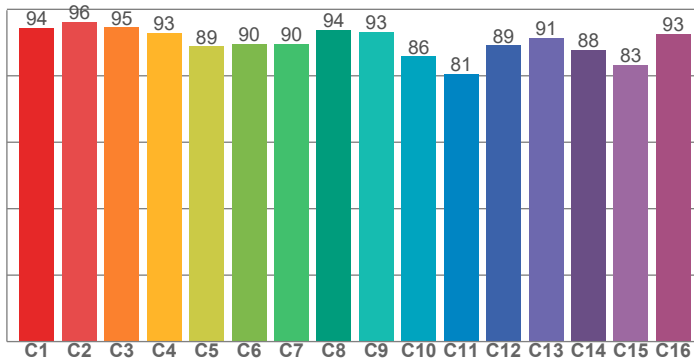
Spectra



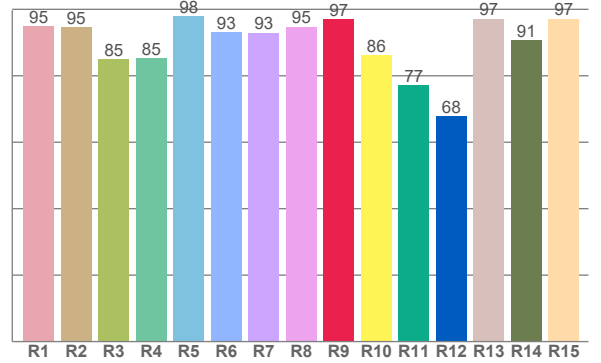
COLOR DETAILS



TM30: 90,2



CRI: 92,3 (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
94,8	94,6	85,1	85,4	97,9	93,0	93,0	94,7	97,1	86,2	77,1	67,9	97,1	90,7	97,2

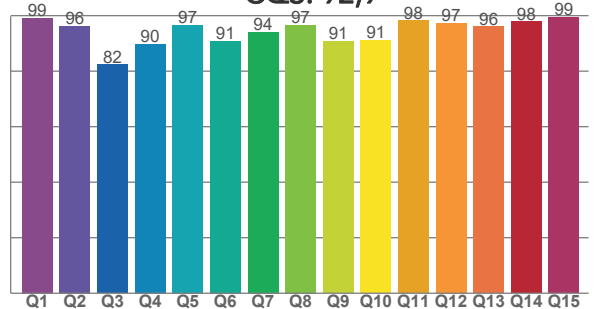
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	96,2	94,5	92,9	88,9	89,6	89,6	93,7	93,3	85,9	80,6	89,1	91,4	87,8	83,2	92,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,1	96,3	82,4	89,8	96,6	90,9	94,2	96,6	90,8	91,1	98,3	97,4	96,0	97,9	99,4

CQS: 92,9



COLOR PARAMETERS

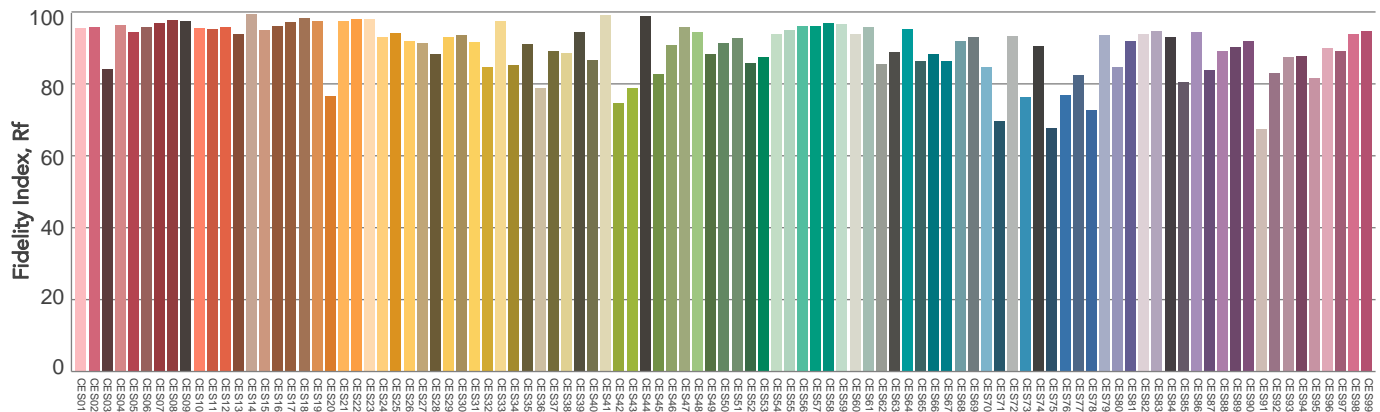
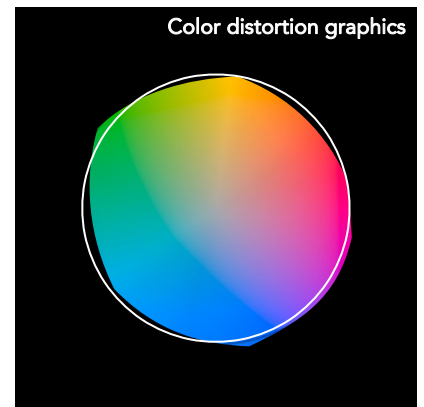
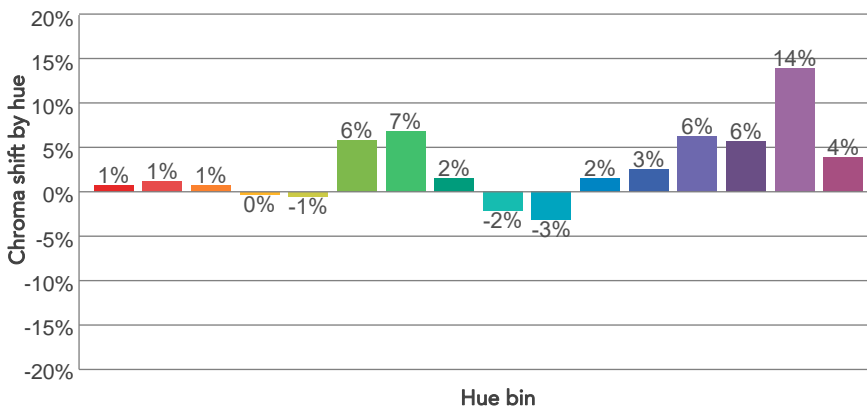
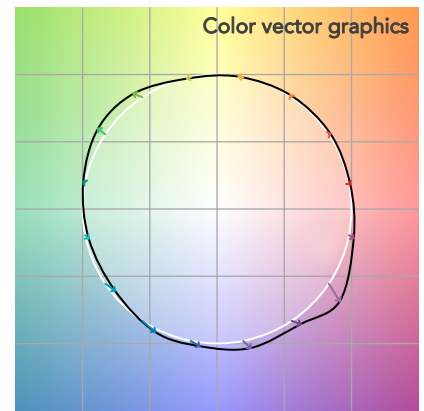
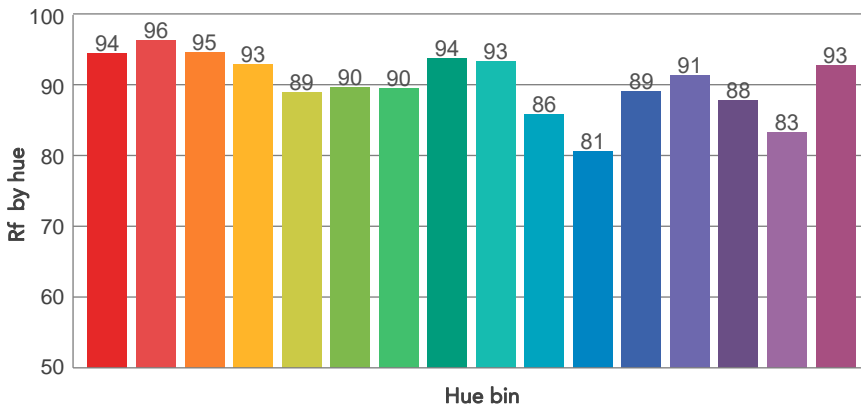
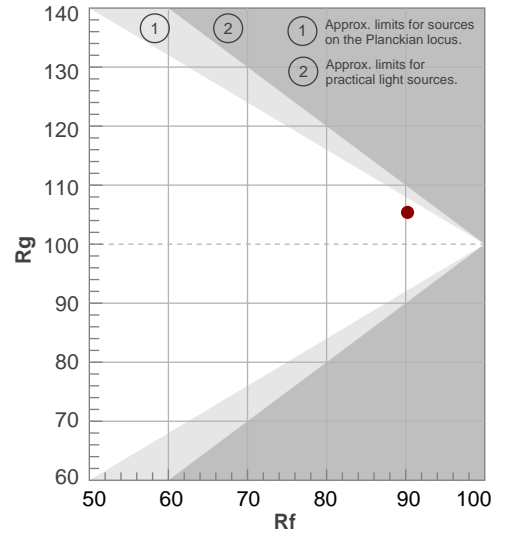
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6433 K	92,3	97,1	90,2	105,4	92,9	91	0,314	0,328	0,0015

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 105,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	96	1%	0%
3	95	1%	2%
4	93	0%	4%
5	89	-1%	3%
6	90	6%	4%
7	90	7%	-1%
8	94	2%	0%
9	93	-2%	3%
10	86	-3%	8%
11	81	2%	12%
12	89	3%	7%
13	91	6%	4%
14	88	6%	4%
15	83	14%	-6%
16	93	4%	-1%

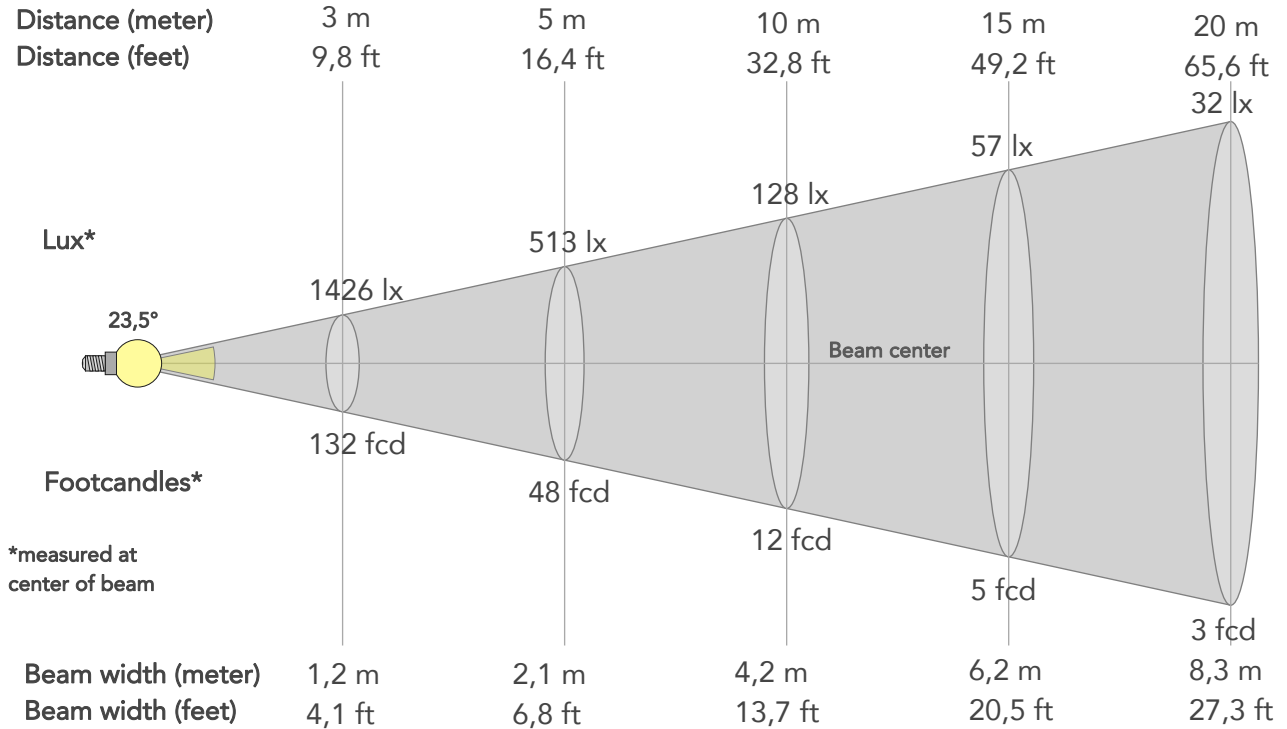


Color Evaluation Sample

BEAM DETAILS



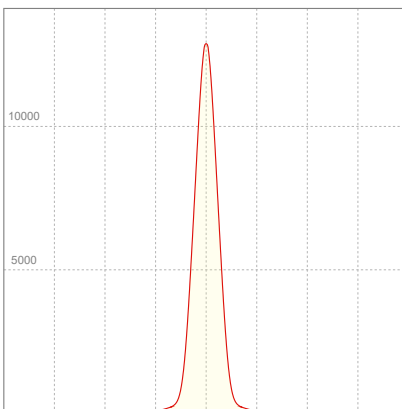
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,5°	41,6°	55°	97,7%	94,6%



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	12832lx	3208lx	1426lx	802lx	513lx	228lx	128lx	57lx	32lx	21lx	14lx	8lx	5lx
Footcand.	1192fcd	298fcd	132fcd	75fcd	48fcd	21fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,4m	0,8m	1,2m	1,7m	2,1m	3,1m	4,2m	6,2m	8,3m	10,4m	12,5m	16,7m	20,8m
Beam wid.	1,4ft	2,7ft	4,1ft	5,5ft	6,8ft	10,2ft	13,7ft	20,5ft	27,3ft	34,1ft	41ft	54,6ft	68,3ft

LINEAR DISTRIBUTION DIAGRAM

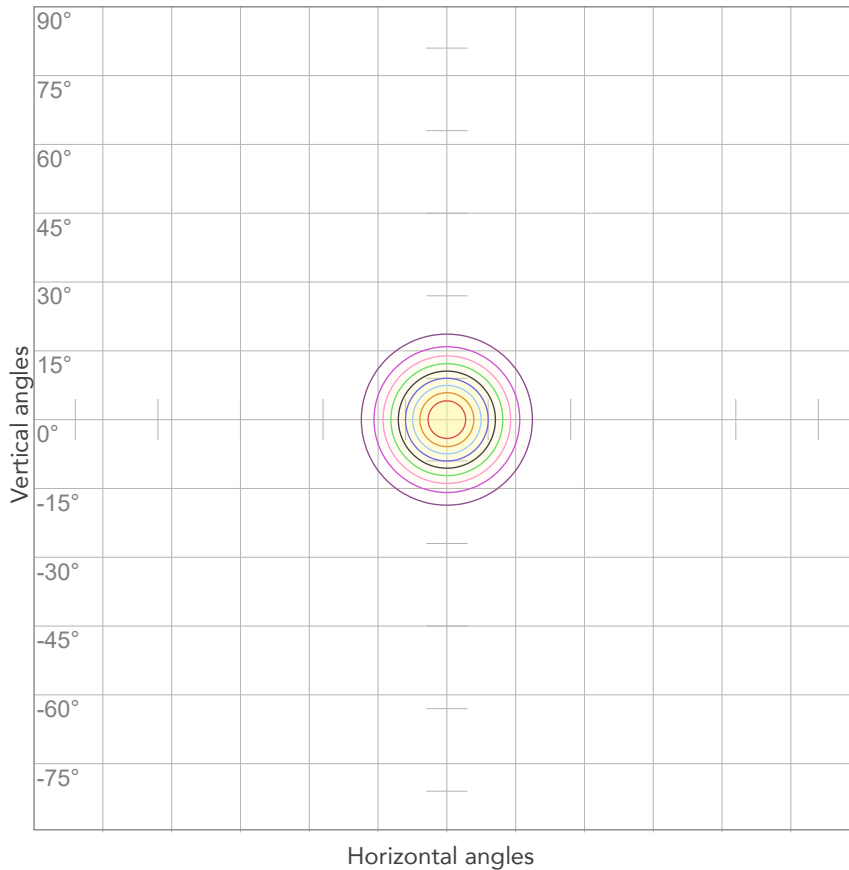


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,279A	58,5W	0,93	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



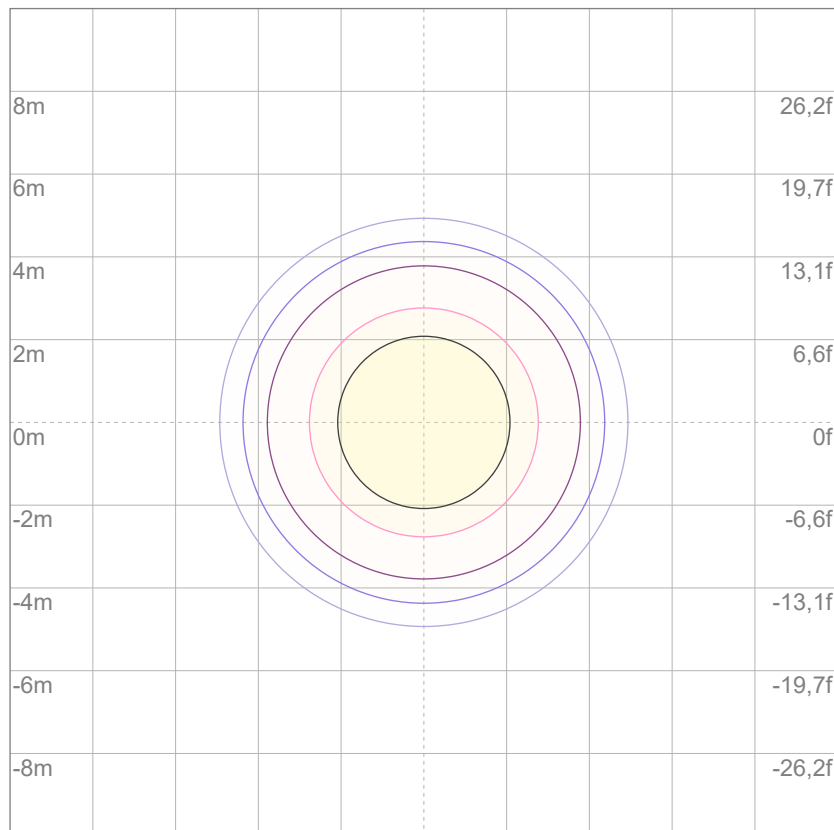
10%	1283 cd
20%	2566 cd
30%	3850 cd
40%	5133 cd
50%	6416 cd
60%	7699 cd
70%	8983 cd
80%	10266 cd

Conditions:

Number of c-planes: 2

Candela at center: 12832 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,85 lx
5%	6,42 lx
10%	12,8 lx
30%	38,5 lx
50%	64,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 128 lx

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



Total lumen output:

2652 lm

Peak candela output:

4445 cd

Light quality:

CRI: 92,2

Color temperature:

6402 K

PRODUCT NAME:
ECLPENDANTS FC

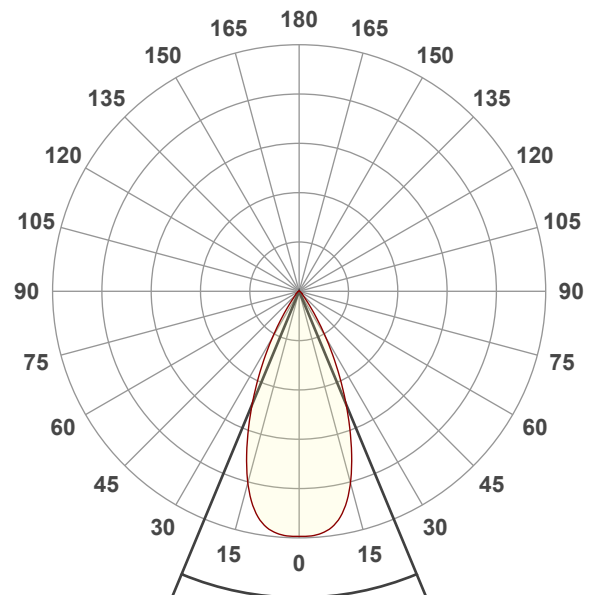
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Full On

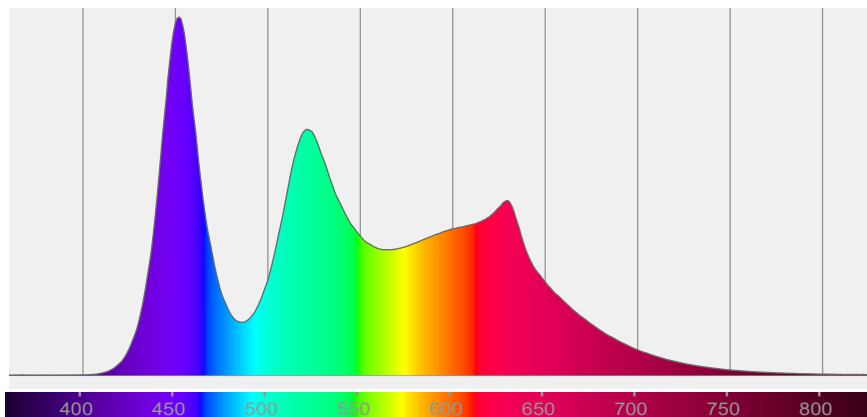
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:11:44

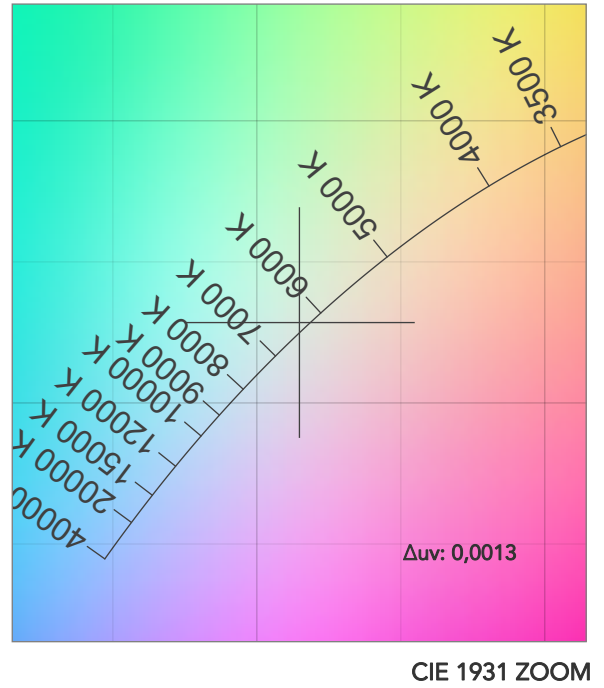
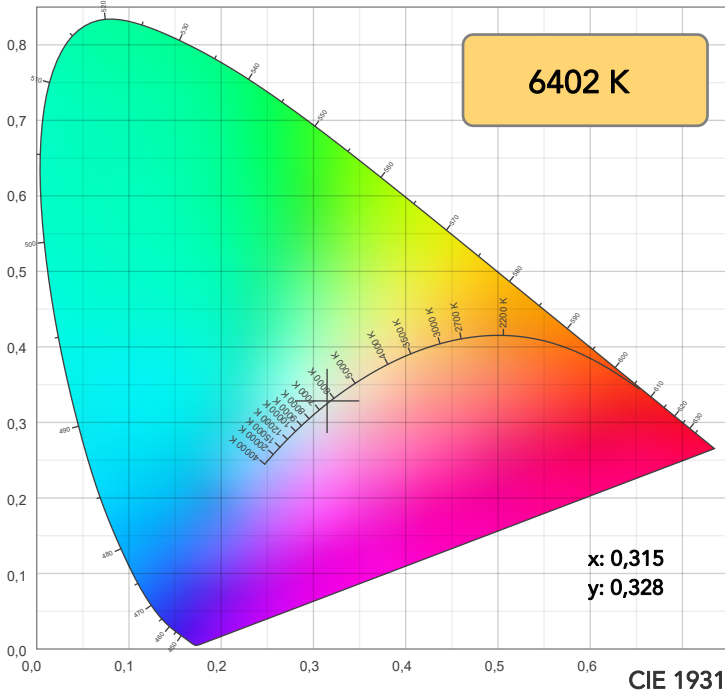


Beam angle 50%: 45,1°
Field angle 10%: 69,3°
Cut off angle 2.5%: 86,3°

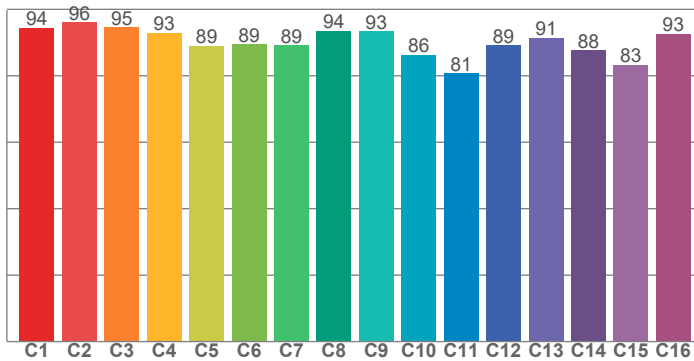
Spectra



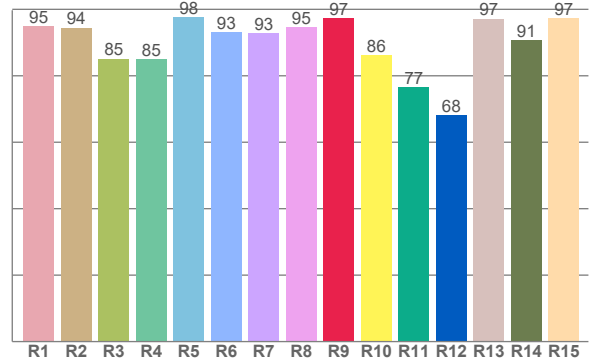
COLOR DETAILS



TM30: 90,2



CRI: 92,2 (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
94,8	94,5	85,1	85,0	97,7	93,1	92,8	94,7	97,4	86,3	76,6	68,1	97,2	90,8	97,3

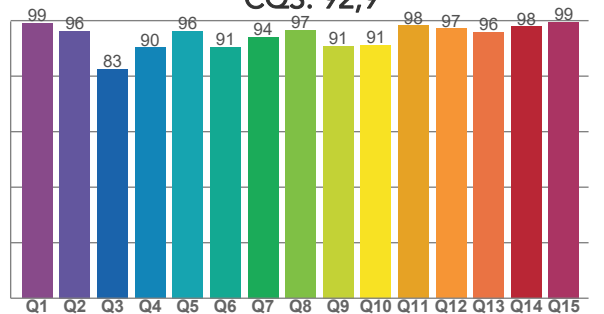
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,1	94,6	92,9	89,0	89,5	89,2	93,6	93,3	86,2	80,7	89,1	91,4	87,7	83,3	92,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,0	96,3	82,5	90,3	96,3	90,5	94,1	96,5	90,8	91,2	98,3	97,1	95,9	97,9	99,5

CQS: 92,9



COLOR PARAMETERS

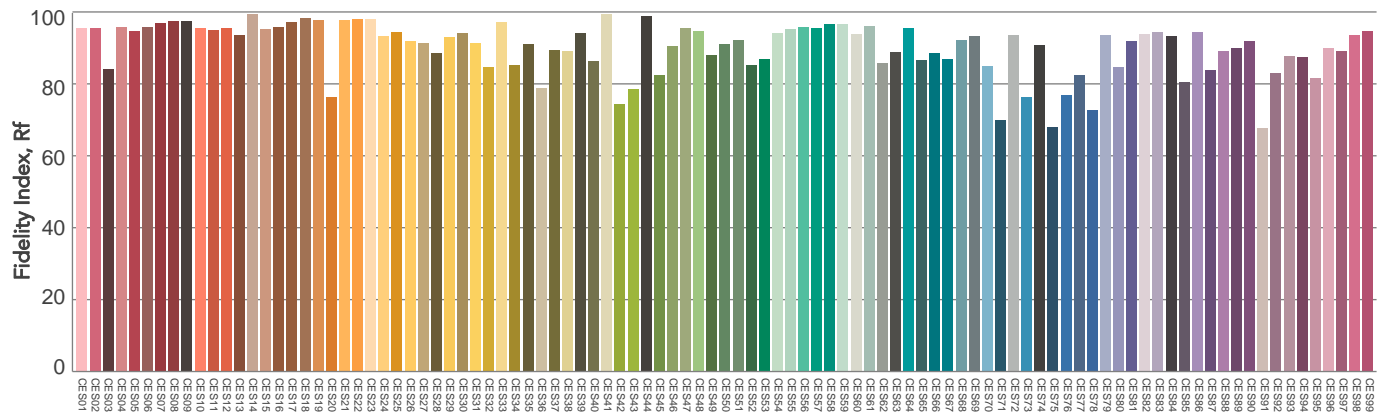
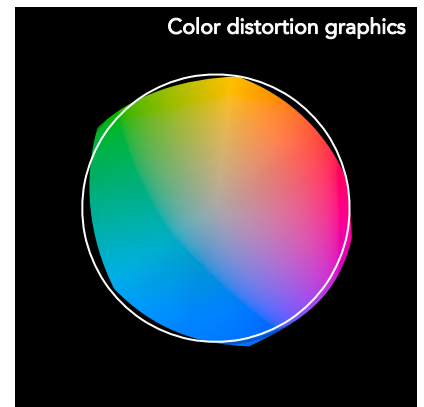
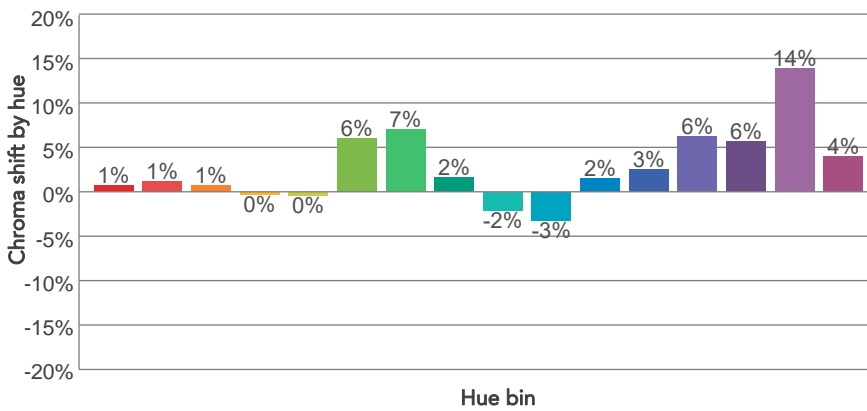
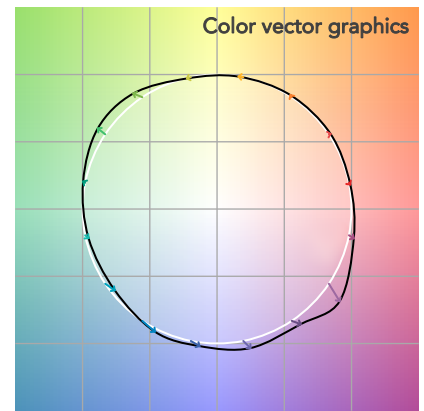
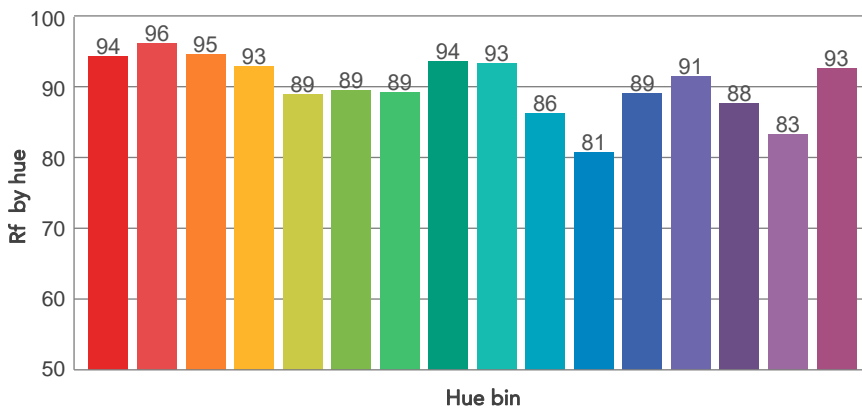
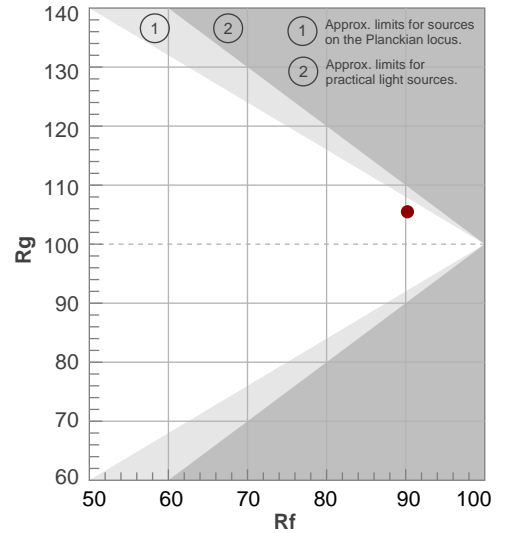
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6402 K	92,2	97,4	90,2	105,5	92,9	90	0,315	0,328	0,0013

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 105,5
Gammut index

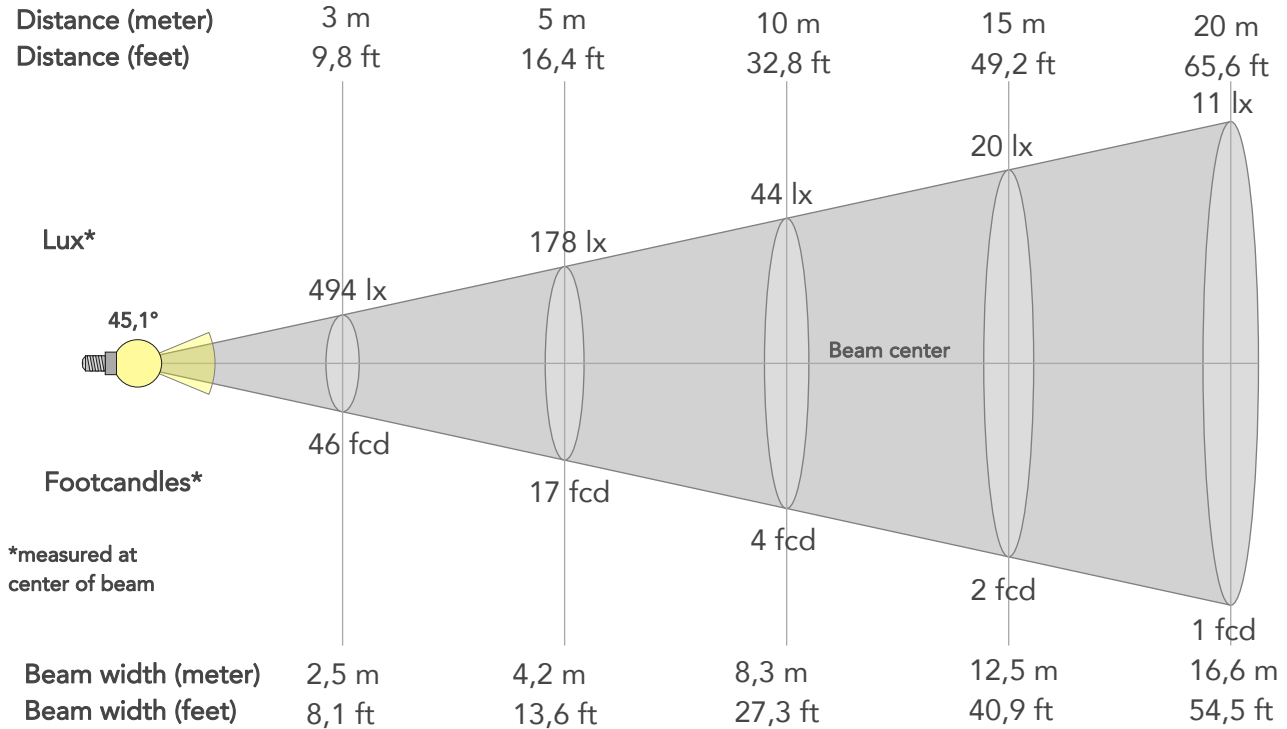
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	96	1%	0%
3	95	1%	2%
4	93	0%	3%
5	89	0%	3%
6	89	6%	4%
7	89	7%	-1%
8	94	2%	-1%
9	93	-2%	3%
10	86	-3%	8%
11	81	2%	12%
12	89	3%	7%
13	91	6%	4%
14	88	6%	4%
15	83	14%	-6%
16	93	4%	-2%



BEAM DETAILS



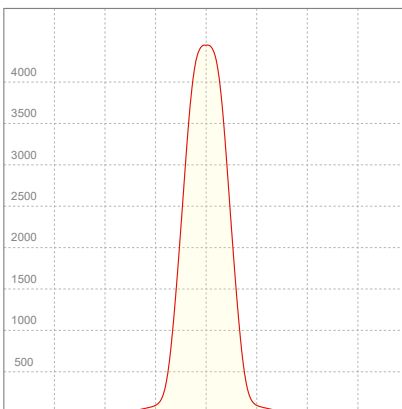
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45,1°	69,3°	86,3°	98,5%	95,4%



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	4445lx	1111lx	494lx	278lx	178lx	79lx	44lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	413fcd	103fcd	46fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,7m	2,5m	3,3m	4,2m	6,2m	8,3m	12,5m	16,6m	20,8m	24,9m	33,2m	41,6m
Beam wid.	2,7ft	5,5ft	8,1ft	10,9ft	13,6ft	20,4ft	27,3ft	40,9ft	54,5ft	68,1ft	81,8ft	109ft	136,3ft

LINEAR DISTRIBUTION DIAGRAM

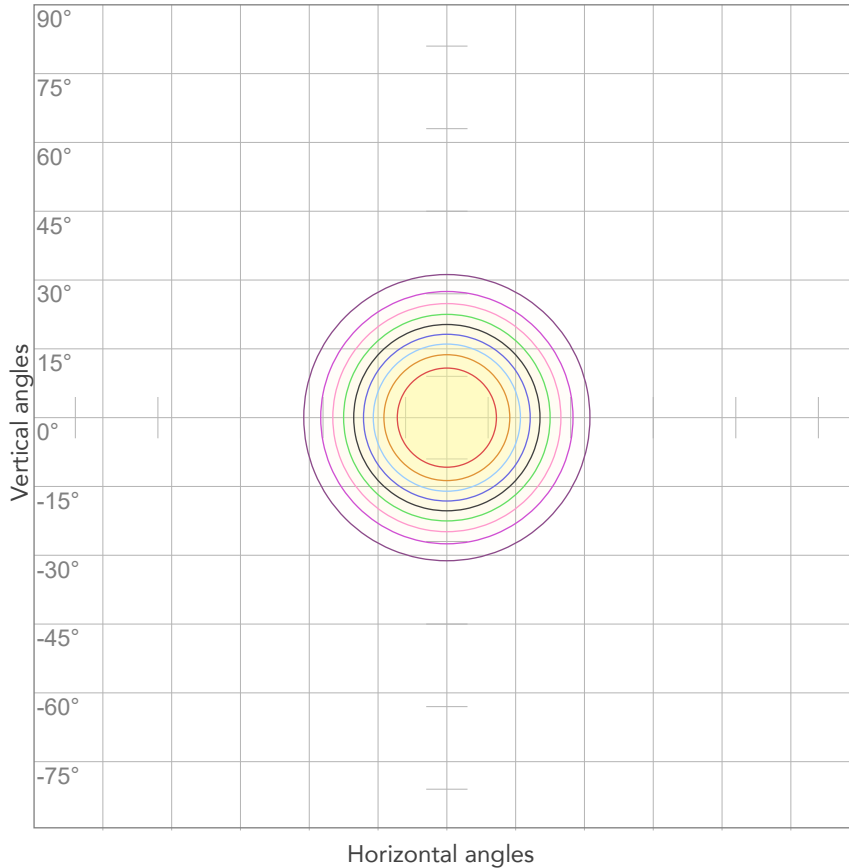


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,280A	59,0W	0,93	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



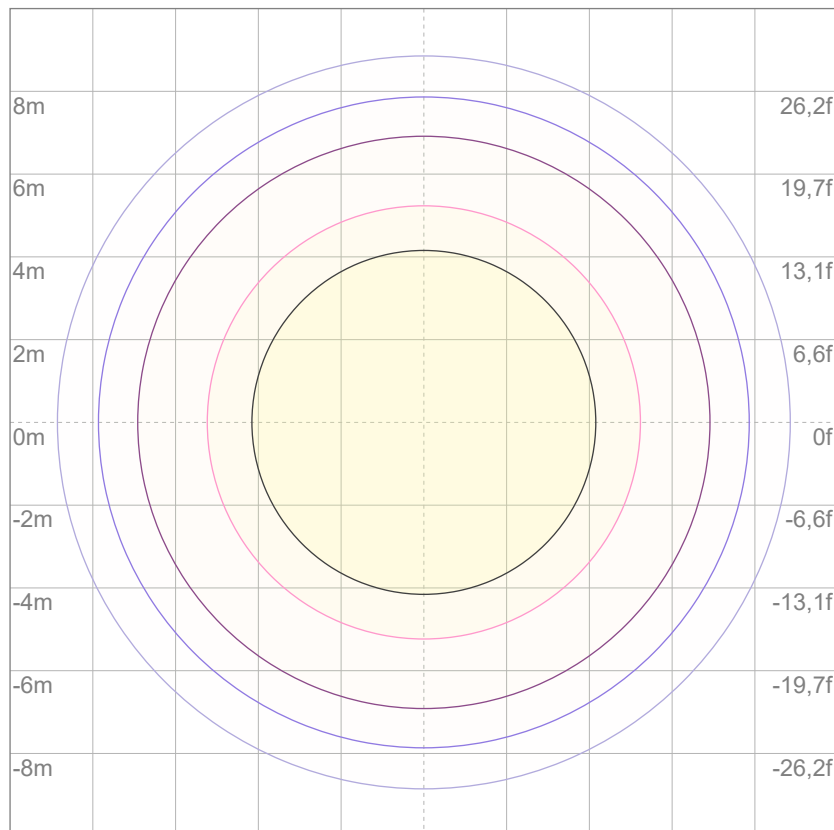
10%	444 cd
20%	889 cd
30%	1333 cd
40%	1778 cd
50%	2222 cd
60%	2667 cd
70%	3111 cd
80%	3556 cd

Conditions:

Number of c-planes: 2

Candela at center: 4445 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,33 lx
5%	2,22 lx
10%	4,44 lx
30%	13,3 lx
50%	22,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 44,4 lx

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



Total lumen output:

2493 lm

Peak candela output:

2209 cd

Light quality:

CRI: 92,1

Color temperature:

6377 K

PRODUCT NAME:

ECLPENDANTS FC

MEASURAMENT CONDITIONS:

Beam angle:

60°

Target:

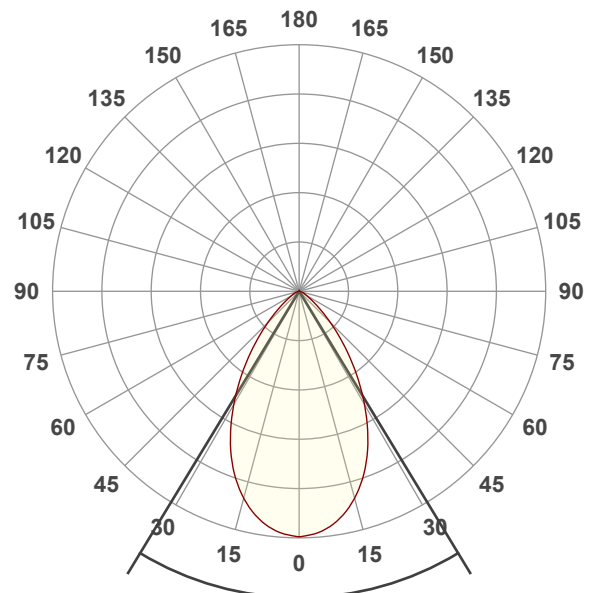
Full On

Operator:

Salvatore Giglio

Date and time:

06/02/2024 11:49:12

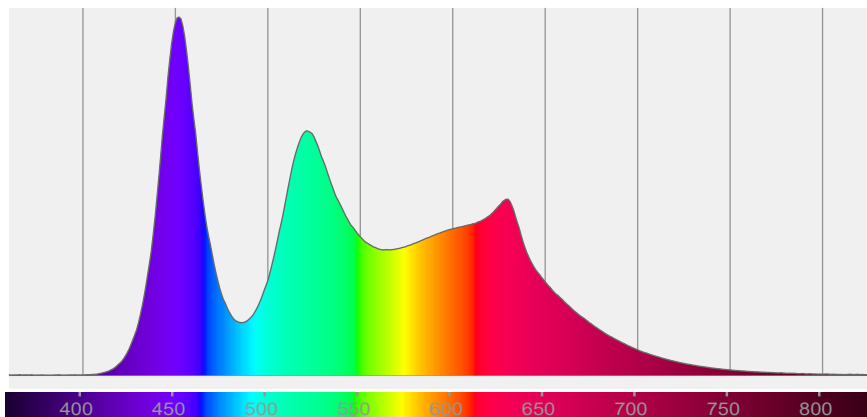


Beam angle 50%: 62,5°

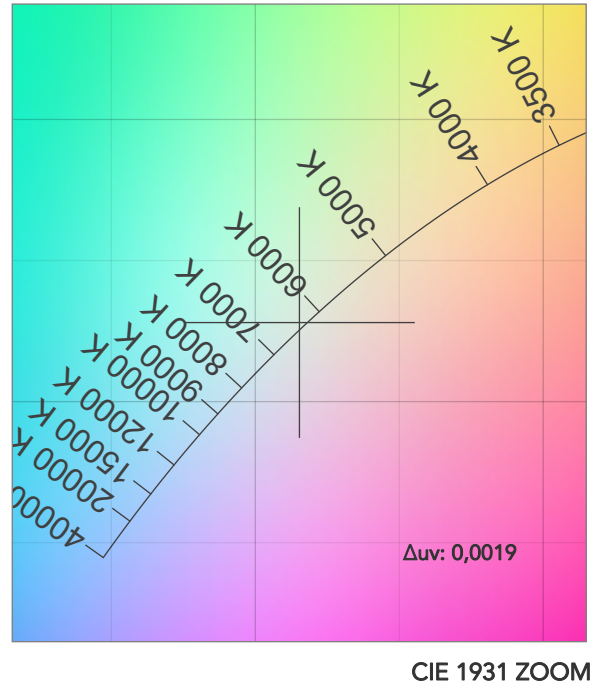
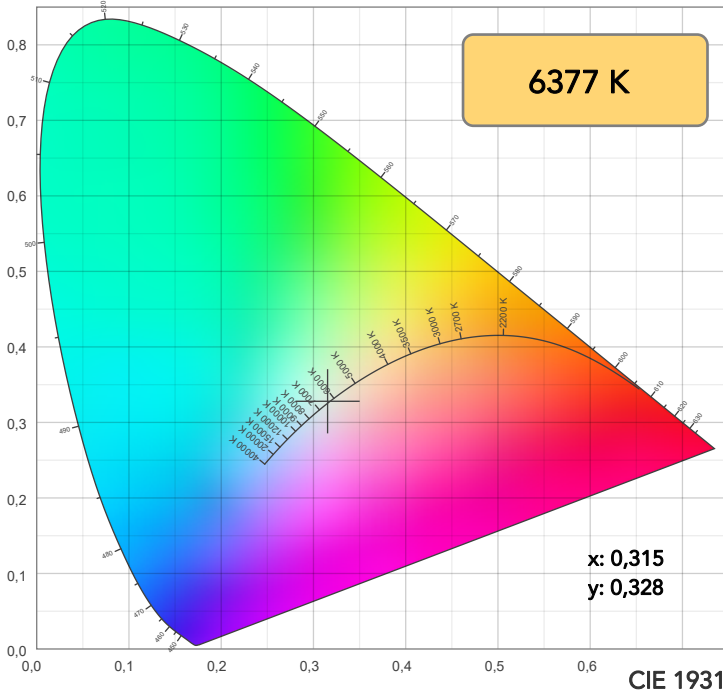
Field angle 10%: 101,4°

Cut off angle 2.5%: 129,9°

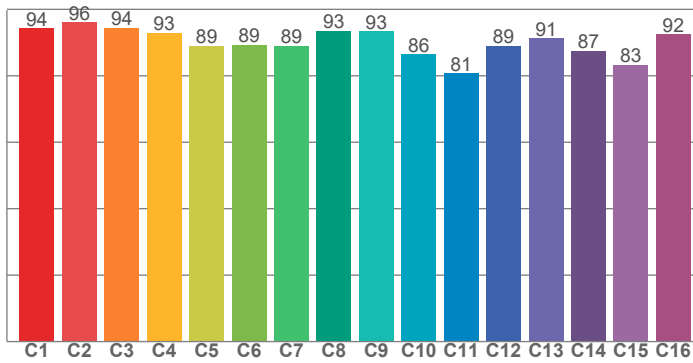
Spectra



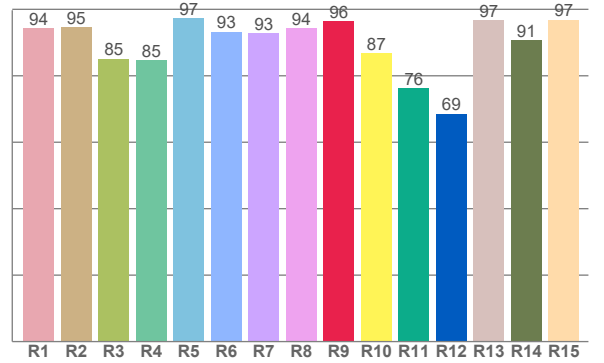
COLOR DETAILS



TM30: 90,2



CRI: 92,1 (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
94,4	94,7	85,1	84,7	97,4	93,2	92,8	94,4	96,5	86,7	76,3	68,5	96,8	90,7	96,8

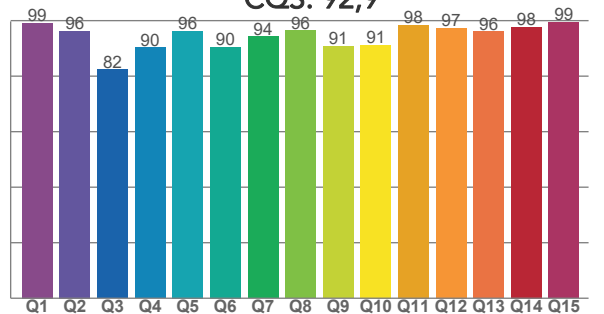
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,1	94,5	92,8	89,0	89,3	89,0	93,5	93,4	86,4	80,7	89,0	91,3	87,5	83,3	92,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,1	96,2	82,4	90,3	96,3	90,5	94,3	96,4	90,7	91,2	98,4	97,4	96,1	97,8	99,4

CQS: 92,9



COLOR PARAMETERS

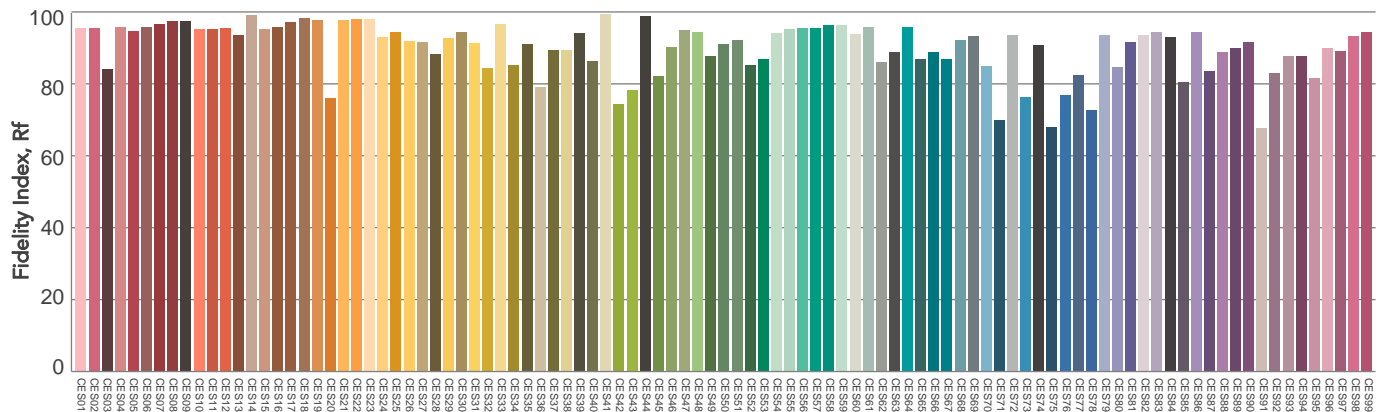
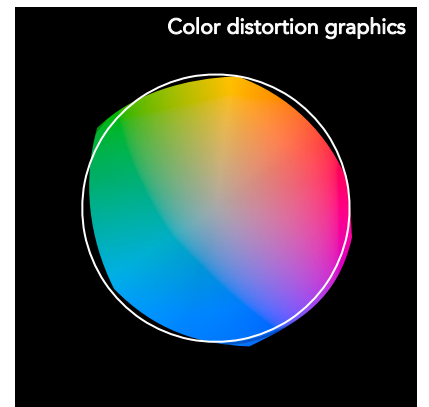
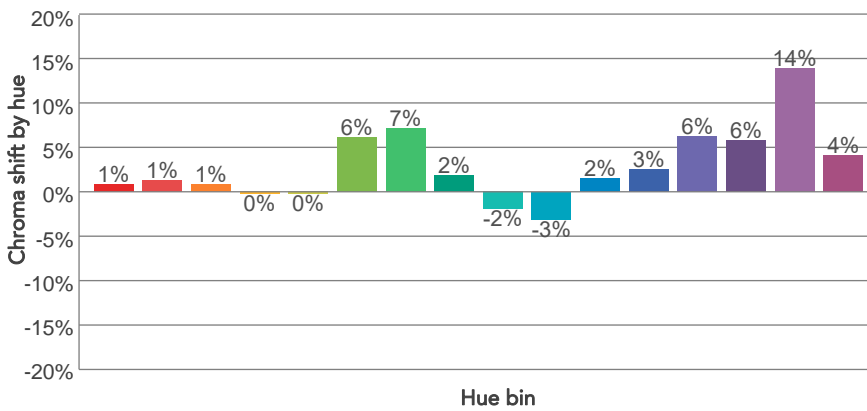
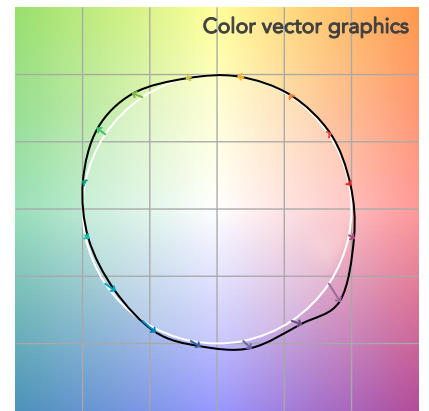
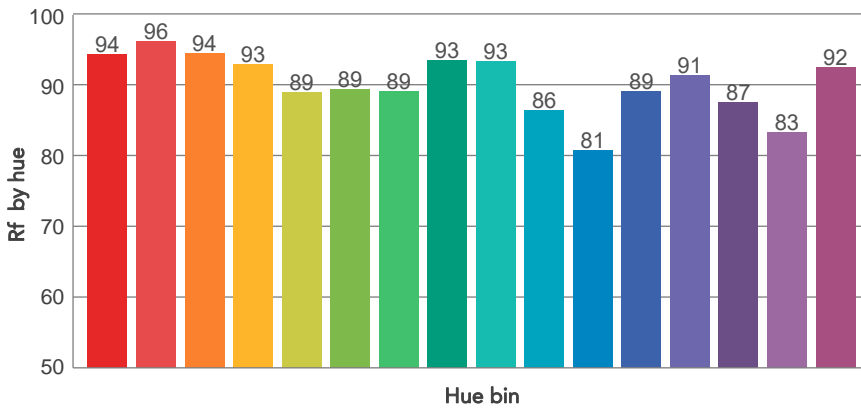
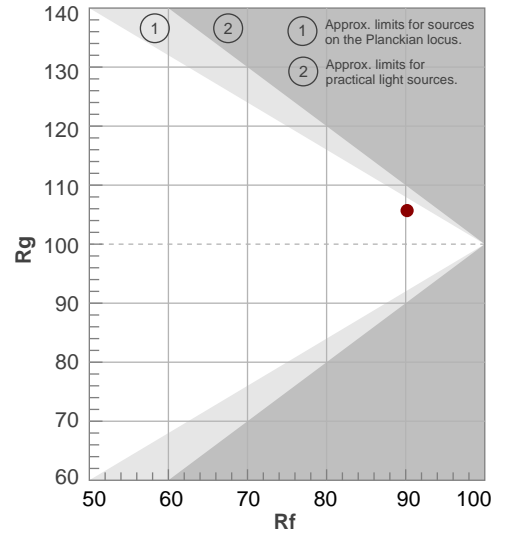
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6377 K	92,1	96,5	90,2	105,7	92,9	90	0,315	0,328	0,0019

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 105,7
Gammut index

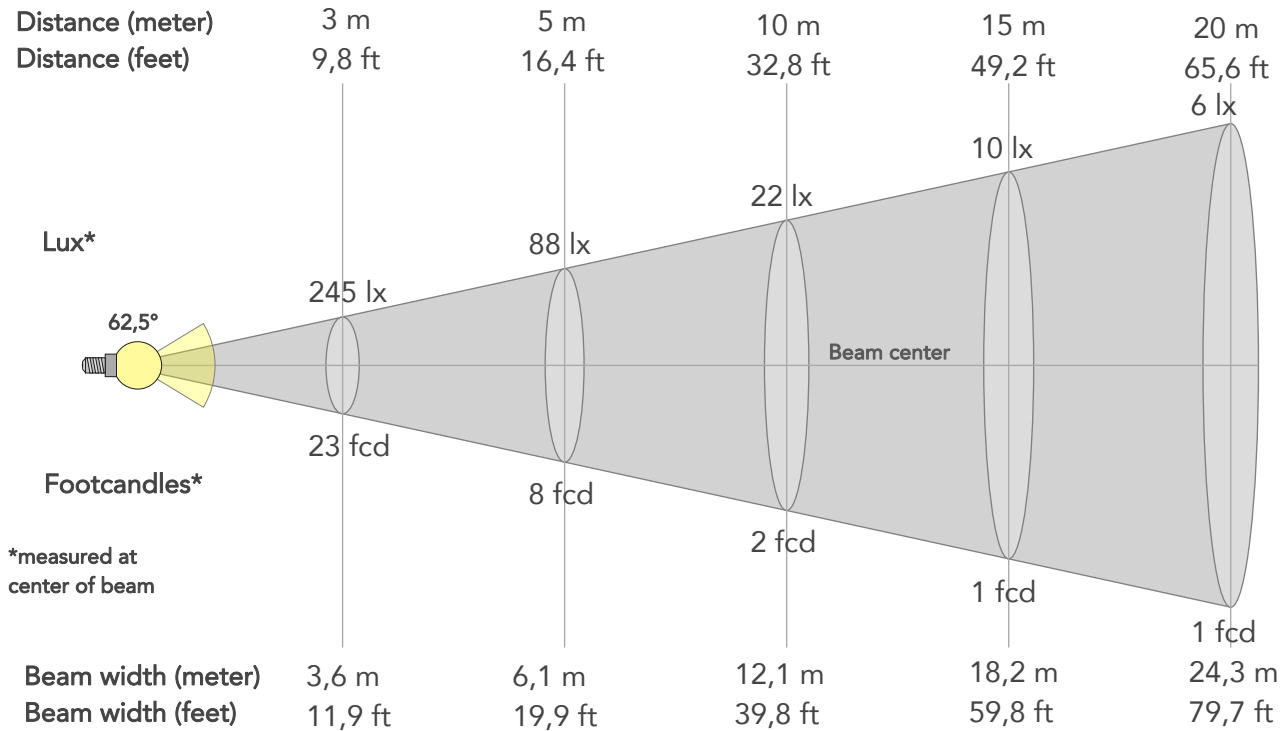
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-1%
2	96	1%	0%
3	94	1%	2%
4	93	0%	4%
5	89	0%	3%
6	89	6%	4%
7	89	7%	0%
8	93	2%	-1%
9	93	-2%	2%
10	86	-3%	8%
11	81	2%	12%
12	89	3%	7%
13	91	6%	4%
14	87	6%	4%
15	83	14%	-6%
16	92	4%	-1%



BEAM DETAILS



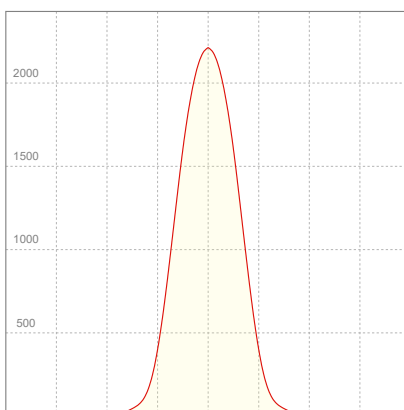
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,5°	101,4°	129,9°	96,5%	86,3%



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	2209lx	552lx	245lx	138lx	88lx	39lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	205fcd	51fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,9m	6,1m	9,1m	12,1m	18,2m	24,3m	30,4m	36,4m	48,6m	60,7m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,9ft	39,8ft	59,8ft	79,7ft	99,6ft	119,5ft	159,3ft	199,2ft

LINEAR DISTRIBUTION DIAGRAM

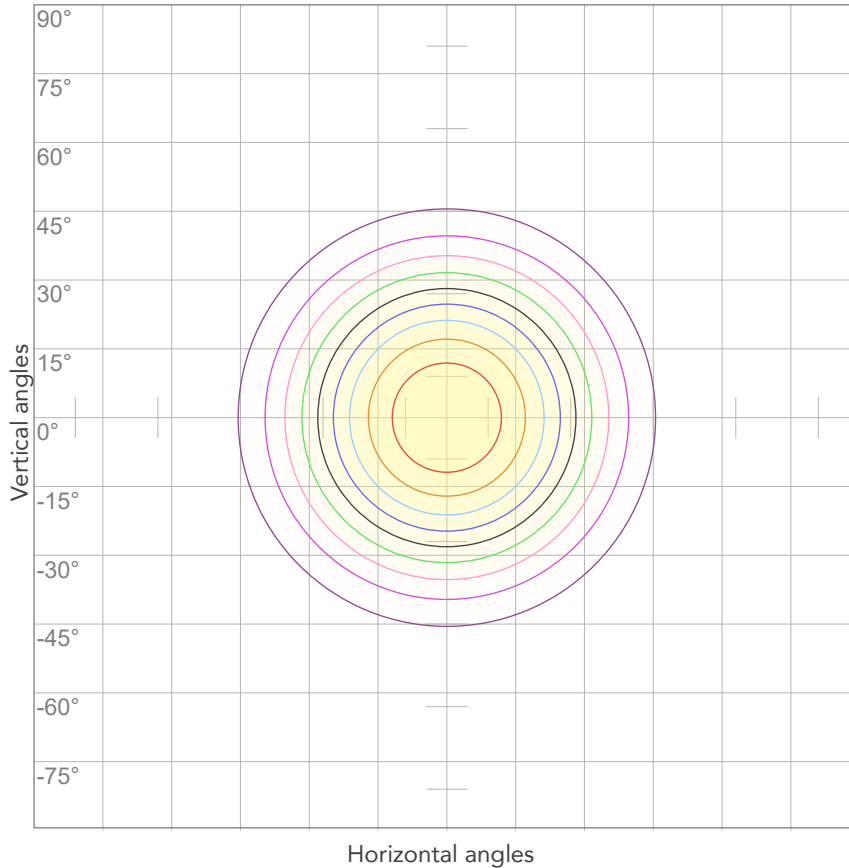


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,281A	59,1W	0,93	42lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



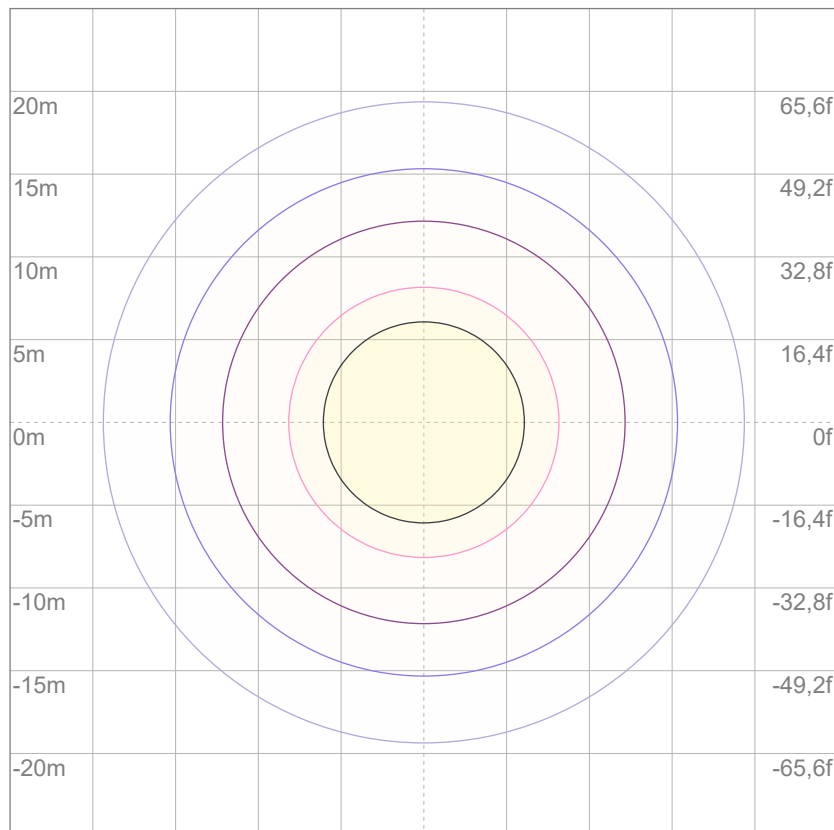
10%	221 cd
20%	442 cd
30%	663 cd
40%	884 cd
50%	1105 cd
60%	1325 cd
70%	1546 cd
80%	1767 cd

Conditions:

Number of c-planes: 2

Candela at center: 2209 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,663 lx
5%	1,10 lx
10%	2,21 lx
30%	6,63 lx
50%	11,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,1 lx

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



Total lumen output:

1052 lm

Peak candela output:

5396 cd

PRODUCT NAME:
ECLPENDANTS FC

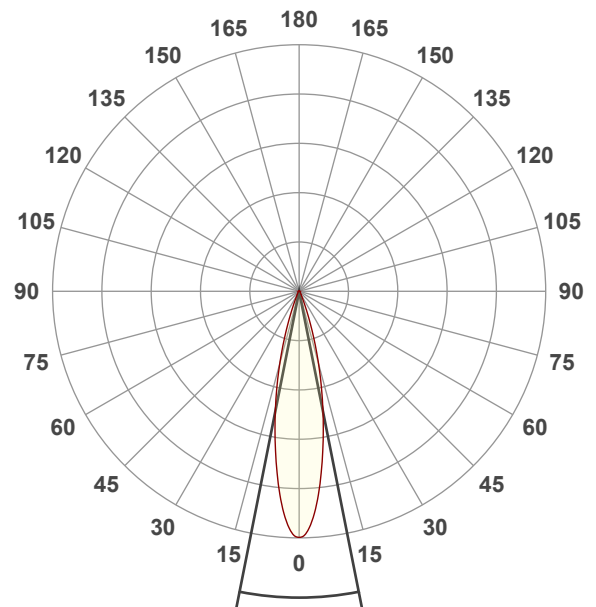
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Red

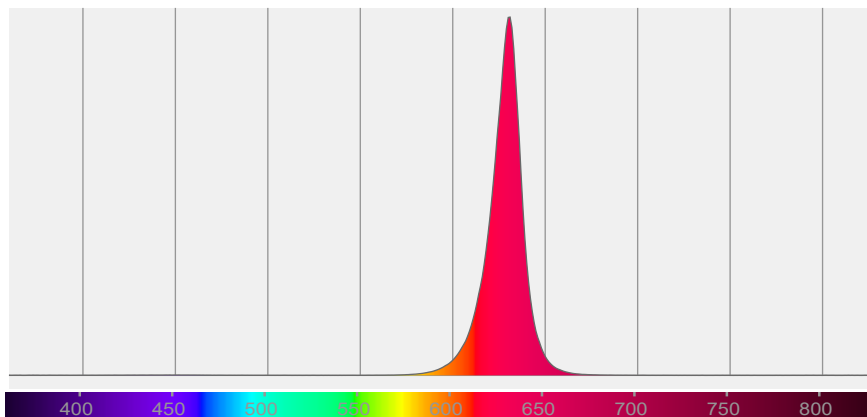
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:01:00



Beam angle 50%: 22,4°
Field angle 10%: 41°
Cut off angle 2.5%: 53,7°

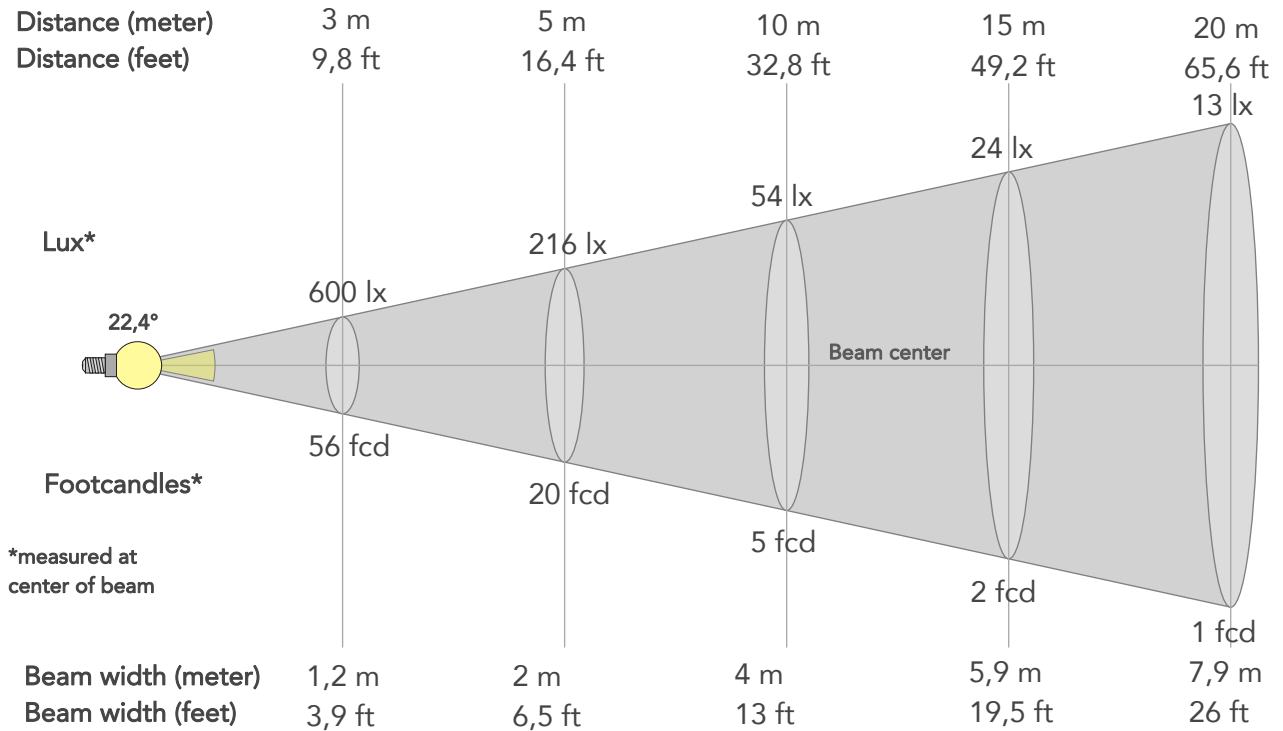
Spectra



BEAM DETAILS



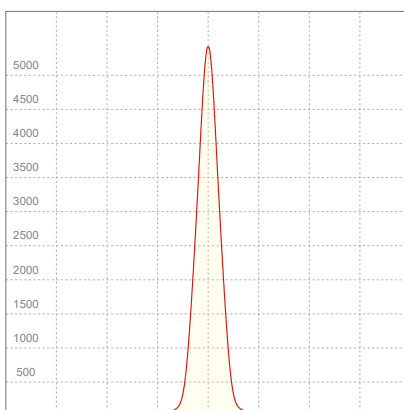
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,4°	41°	53,7°	97,9%	94,6%



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	5396lx	1349lx	600lx	337lx	216lx	96lx	54lx	24lx	13lx	9lx	6lx	3lx	2lx
Footcand.	501fcd	125fcd	56fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	5,9m	7,9m	9,9m	11,9m	15,9m	19,8m
Beam wid.	1,3ft	2,6ft	3,9ft	5,2ft	6,5ft	9,8ft	13ft	19,5ft	26ft	32,5ft	39ft	52ft	65,1ft

LINEAR DISTRIBUTION DIAGRAM

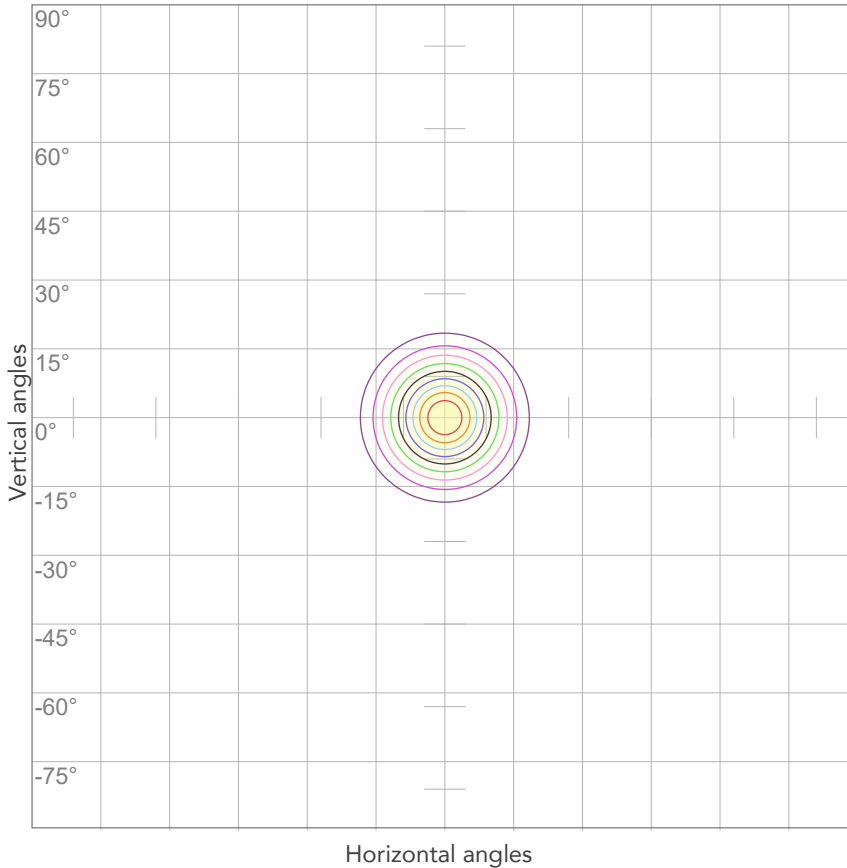


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,158A	28,8W	0,8	37lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



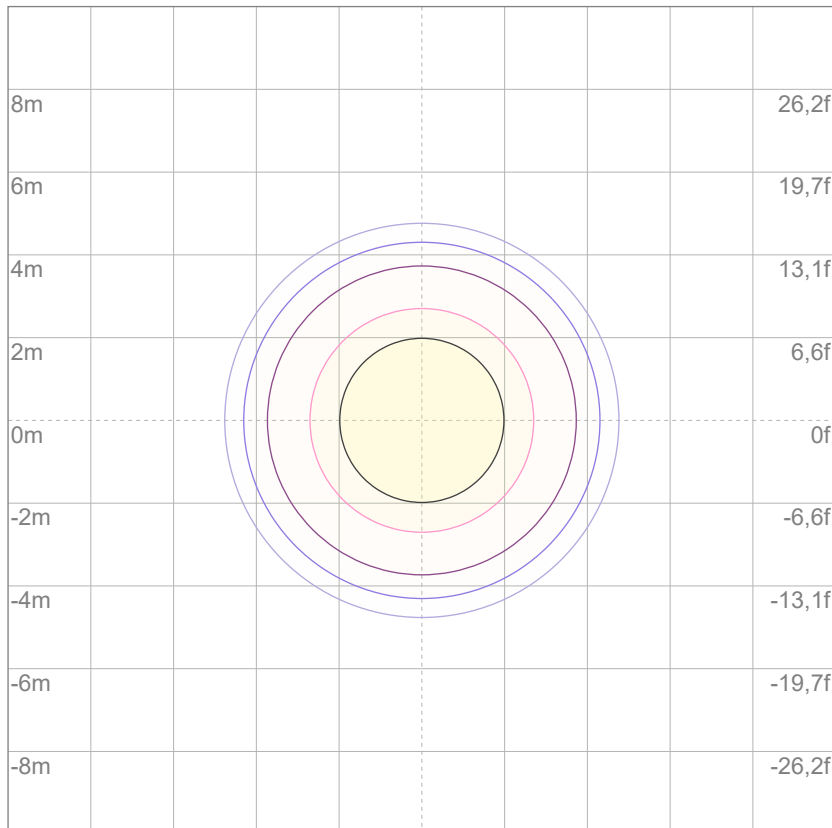
10%	540 cd
20%	1079 cd
30%	1619 cd
40%	2159 cd
50%	2698 cd
60%	3238 cd
70%	3777 cd
80%	4317 cd

Conditions:

Number of c-planes: 2

Candela at center: 5396 cd

ISO LUX DIAGRAM



3%	1,62 lx
5%	2,70 lx
10%	5,40 lx
30%	16,2 lx
50%	27,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 54,0 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

815 lm

Peak candela output:

1411 cd

PRODUCT NAME:
ECLPENDANTS FC

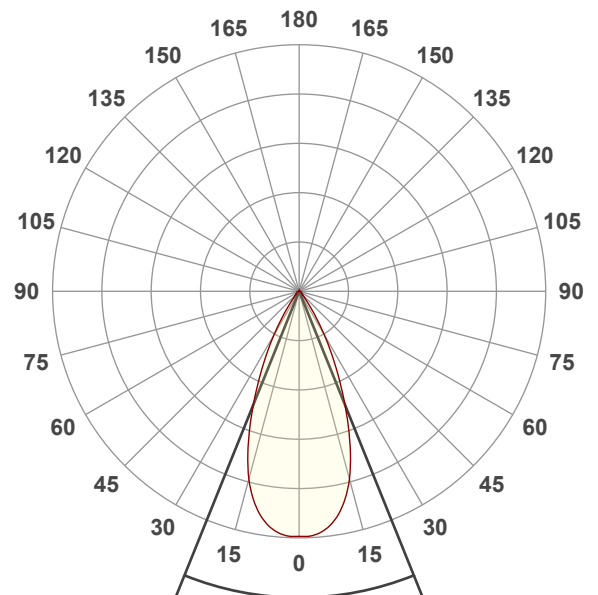
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Red

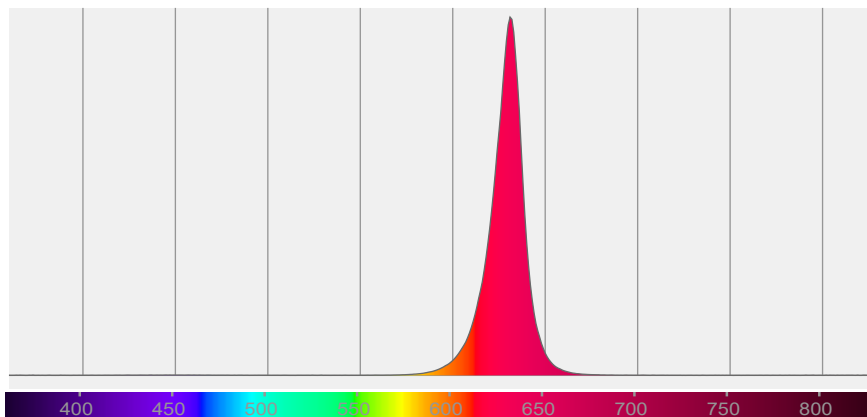
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:13:38



Beam angle 50%: 44°
Field angle 10%: 68,7°
Cut off angle 2.5%: 85,2°

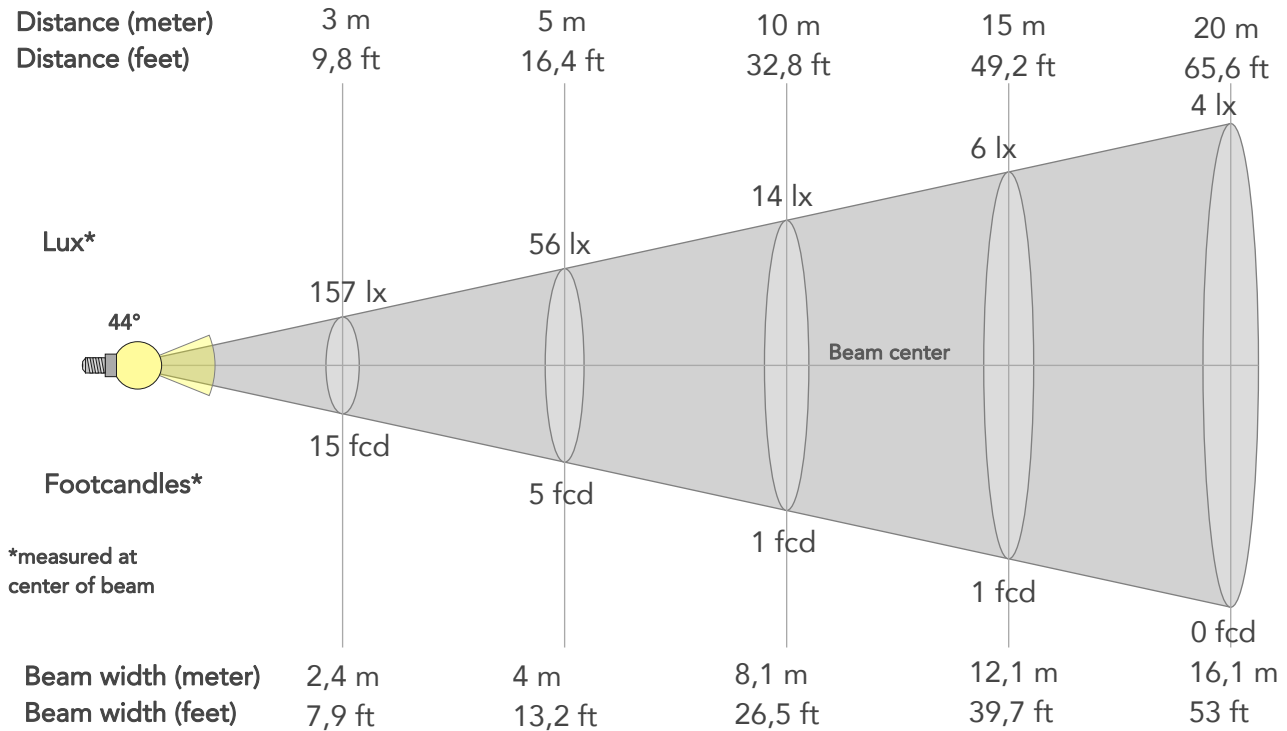
Spectra



BEAM DETAILS



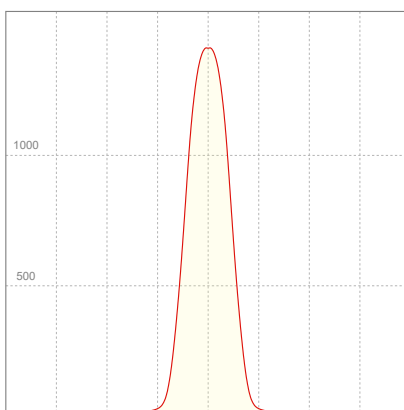
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44°	68,7°	85,2°	98,2%	95,1%



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	1411lx	353lx	157lx	88lx	56lx	25lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	131fcd	33fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	4m	6,1m	8,1m	12,1m	16,1m	20,2m	24,2m	32,3m	40,4m
Beam wid.	2,7ft	5,3ft	7,9ft	10,6ft	13,2ft	19,9ft	26,5ft	39,7ft	53ft	66,2ft	79,5ft	105,9ft	132,4ft

LINEAR DISTRIBUTION DIAGRAM

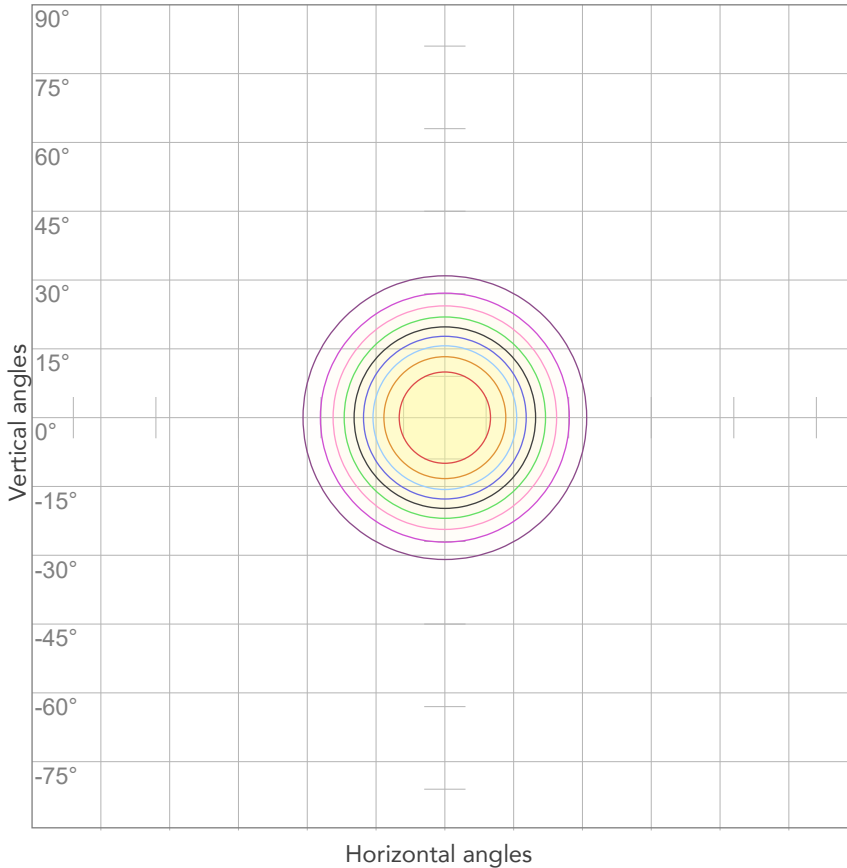


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,137A	23,2W	0,74	35lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



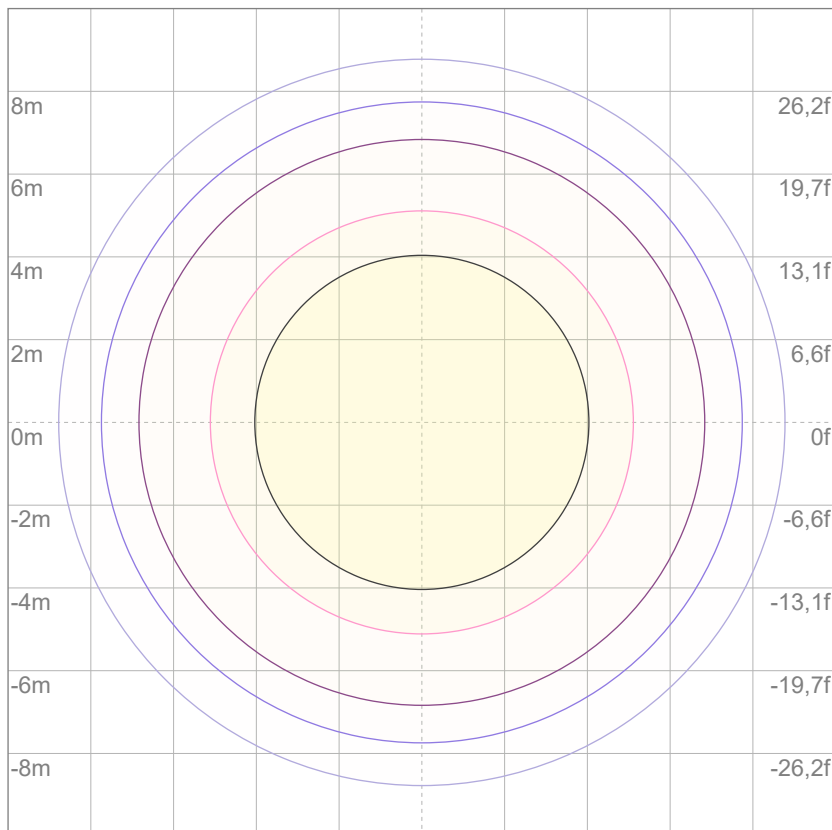
10%	141 cd
20%	282 cd
30%	423 cd
40%	564 cd
50%	706 cd
60%	847 cd
70%	988 cd
80%	1129 cd

Conditions:

Number of c-planes: 2

Candela at center: 1411 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,423 lx
5%	0,706 lx
10%	1,41 lx
30%	4,23 lx
50%	7,06 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,1 lx

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



Total lumen output:

794 lm

Peak candela output:

709 cd

PRODUCT NAME:
ECLPENDANTS FC

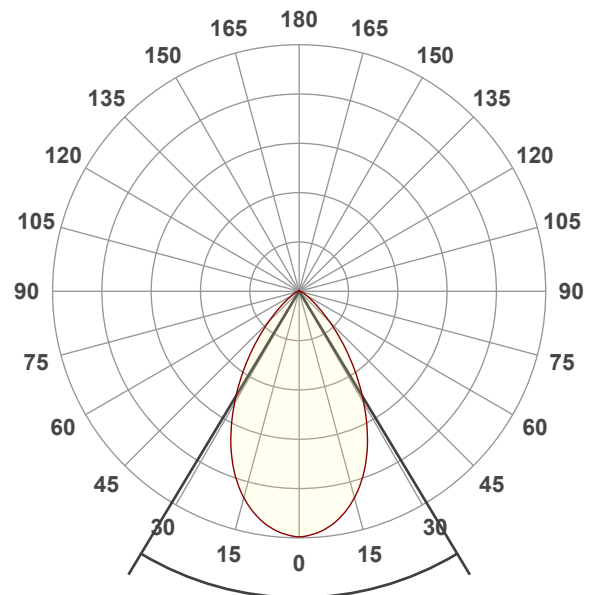
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Red

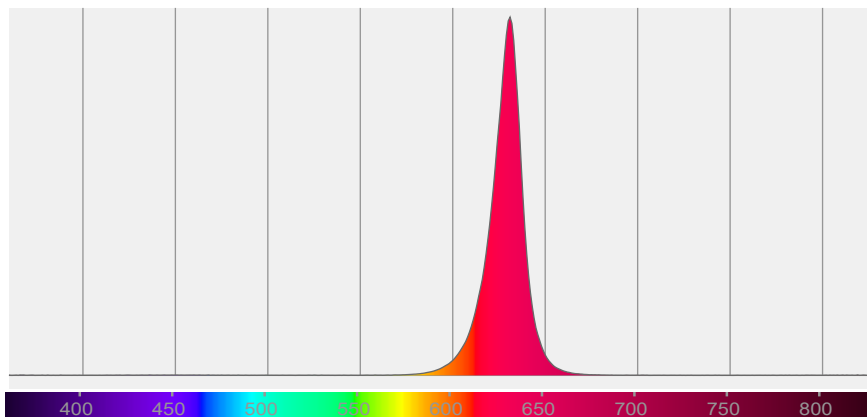
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:57:58



Beam angle 50%: 62,1°
Field angle 10%: 100,8°
Cut off angle 2.5%: 129,5°

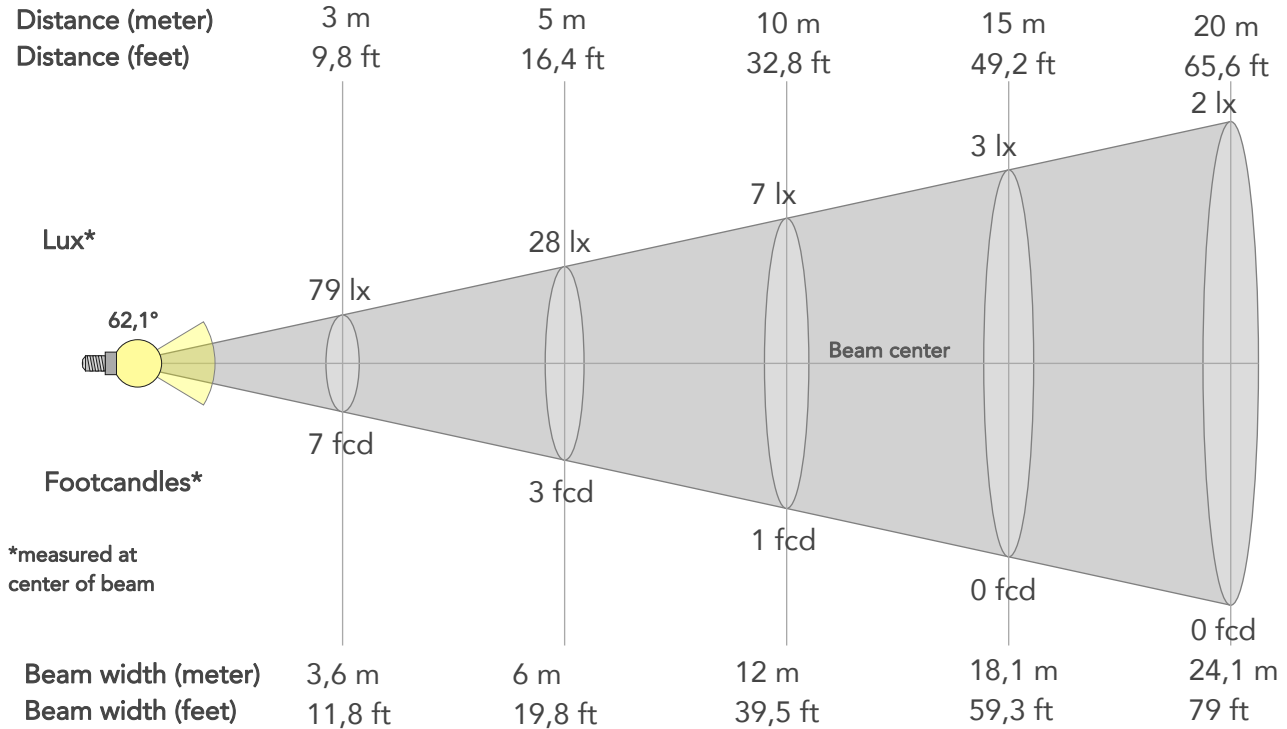
Spectra



BEAM DETAILS



Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,1°	100,8°	129,5°	96,3%	86,4%

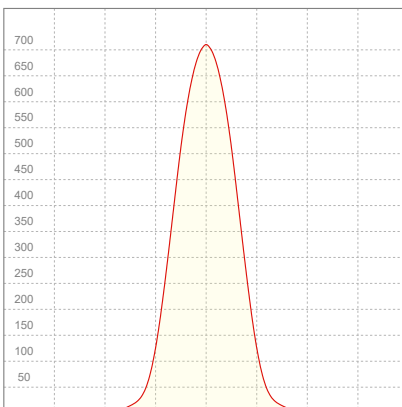


*measured at center of beam

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	709lx	177lx	79lx	44lx	28lx	13lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	66fcd	16fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6m	9m	12m	18,1m	24,1m	30,1m	36,1m	48,2m	60,2m
Beam wid.	4ft	8ft	11,8ft	15,8ft	19,8ft	29,6ft	39,5ft	59,3ft	79ft	98,8ft	118,6ft	158,1ft	197,6ft

LINEAR DISTRIBUTION DIAGRAM

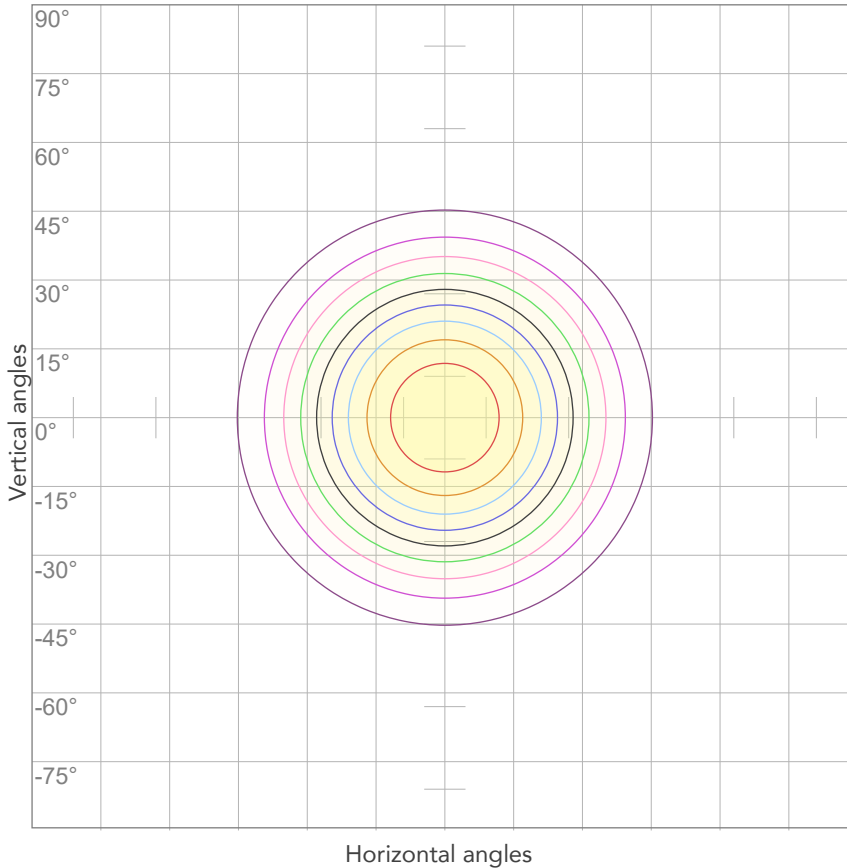


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,139A	23,7W	0,75	34lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM

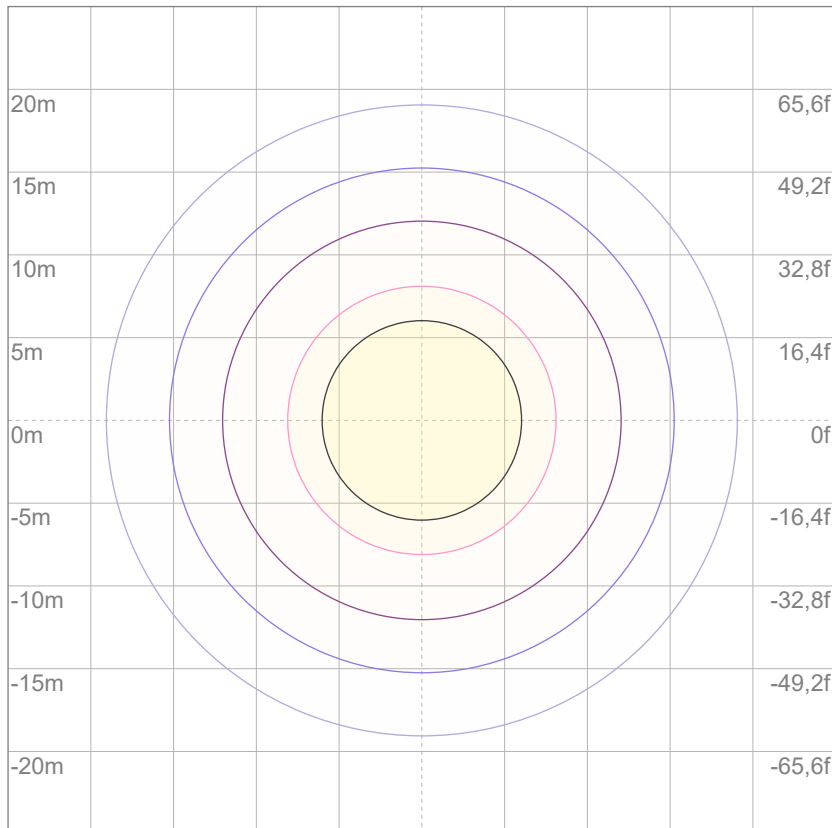


10%	71 cd
20%	142 cd
30%	213 cd
40%	284 cd
50%	354 cd
60%	425 cd
70%	496 cd
80%	567 cd

Conditions:

Number of c-planes: 2
Candela at center: 709 cd

ISO LUX DIAGRAM



3%	0,213 lx
5%	0,354 lx
10%	0,709 lx
30%	2,13 lx
50%	3,54 lx

Conditions:

Number of c-planes: 2
Lux at center: 7,09 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

1096 lm

Peak candela output:

4782 cd

PRODUCT NAME:
ECLPENDANTS FC

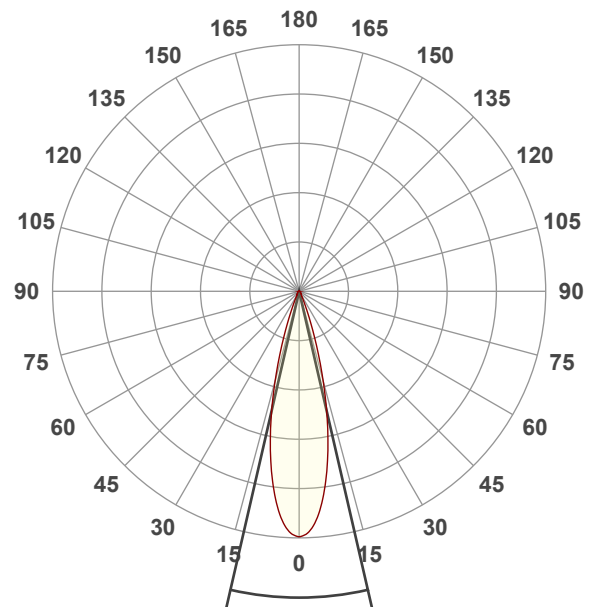
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Green

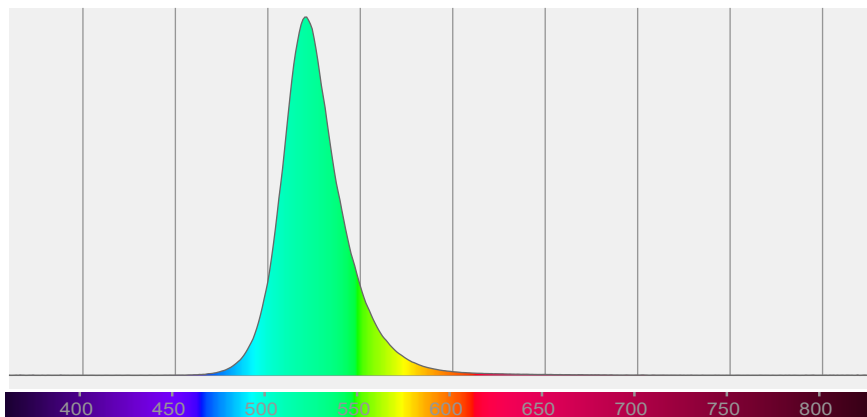
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:02:26



Beam angle 50%: 25,9°
Field angle 10%: 42,8°
Cut off angle 2.5%: 56,7°

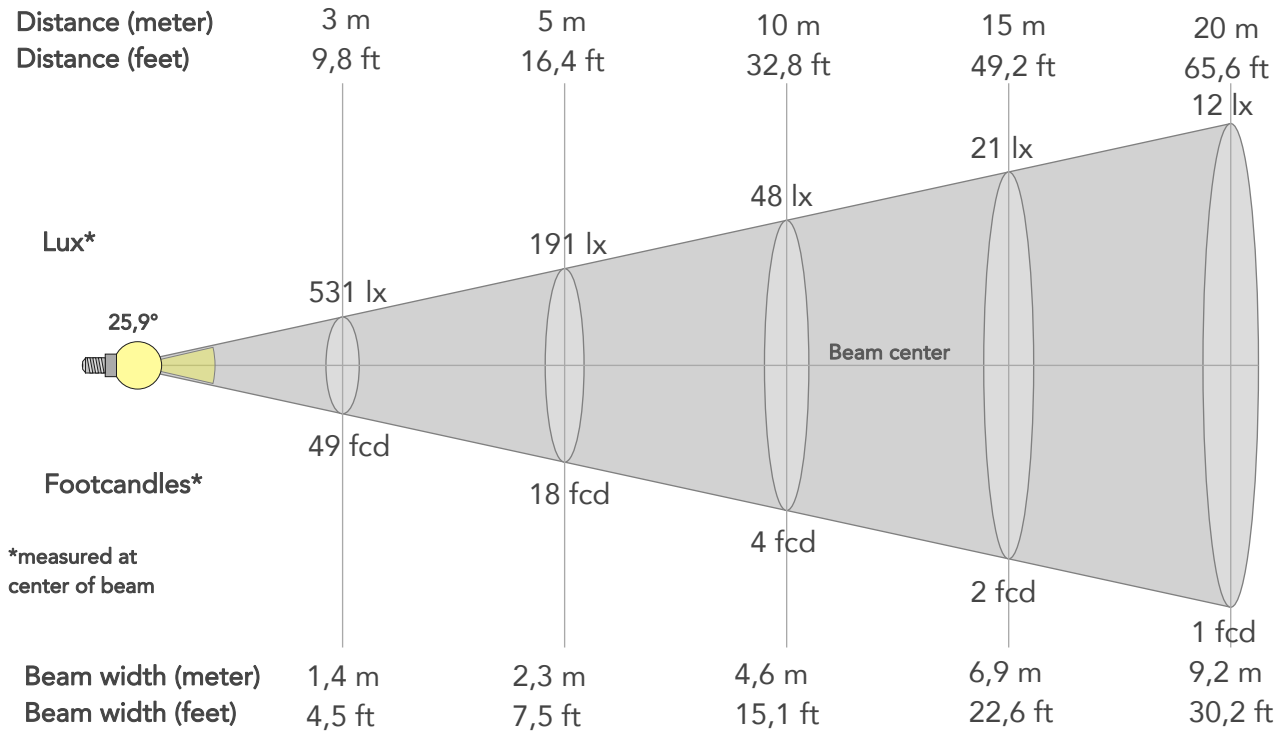
Spectra



BEAM DETAILS



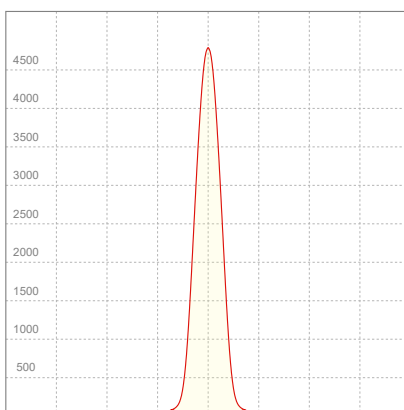
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,9°	42,8°	56,7°	98,0%	94,8%



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	4782lx	1195lx	531lx	299lx	191lx	85lx	48lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	444fcd	111fcd	49fcd	28fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,5m	4,6m	6,9m	9,2m	11,5m	13,8m	18,4m	23m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,3ft	15,1ft	22,6ft	30,2ft	37,7ft	45,3ft	60,4ft	75,5ft

LINEAR DISTRIBUTION DIAGRAM

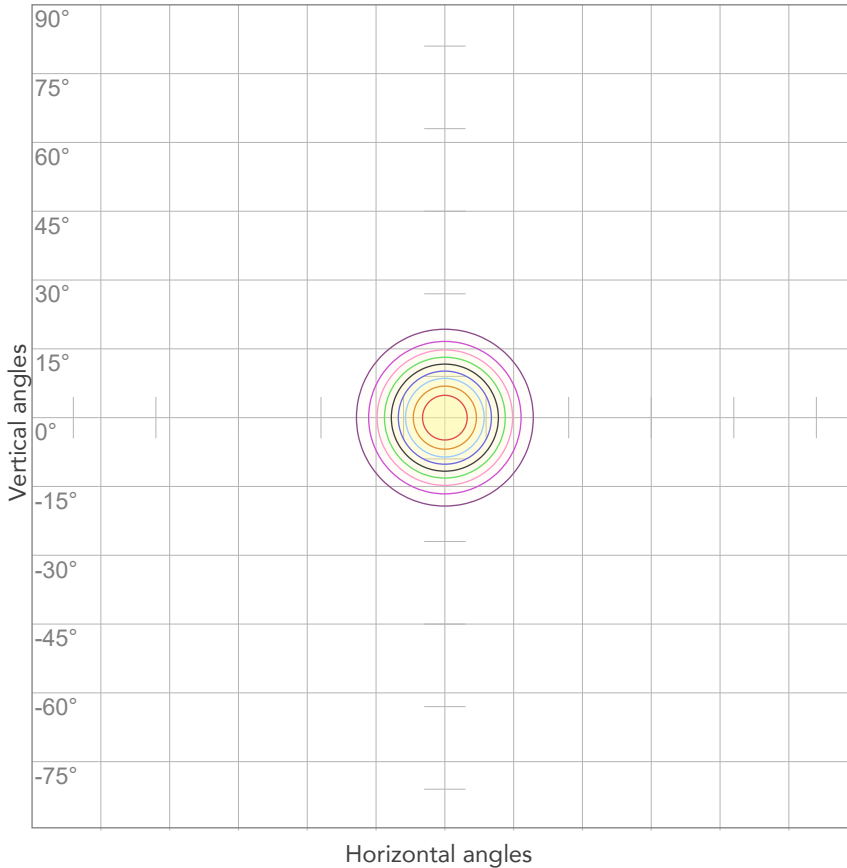


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,152A	27,0W	0,78	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



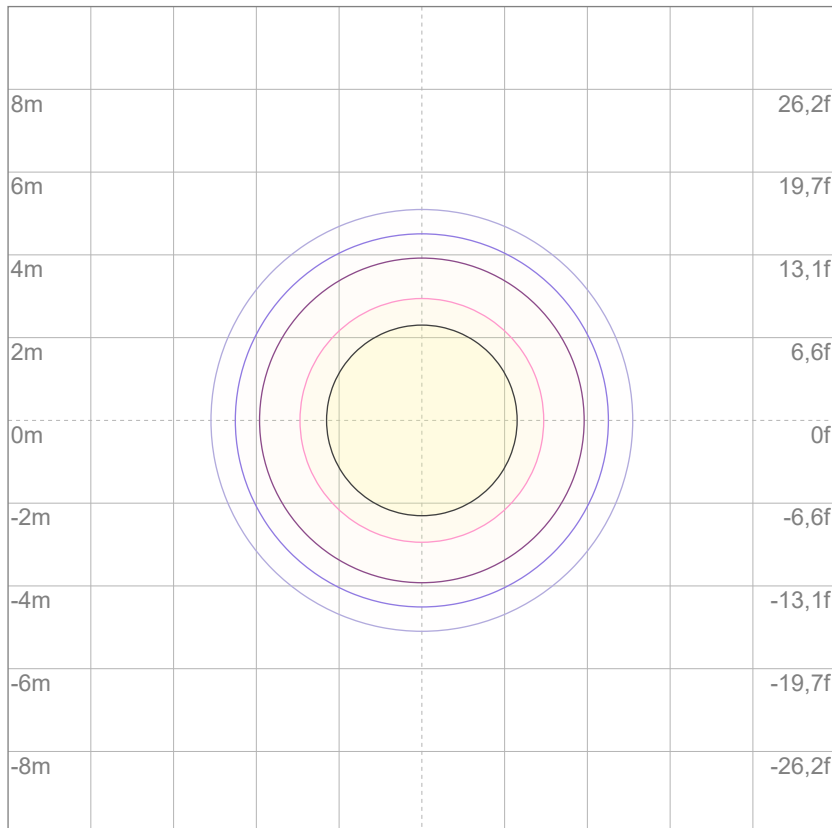
10%	478 cd
20%	956 cd
30%	1435 cd
40%	1913 cd
50%	2391 cd
60%	2869 cd
70%	3347 cd
80%	3826 cd

Conditions:

Number of c-planes: 2

Candela at center: 4782 cd

ISO LUX DIAGRAM



3%	1,43 lx
5%	2,39 lx
10%	4,78 lx
30%	14,3 lx
50%	23,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 47,8 lx

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



Total lumen output:

1078 lm

Peak candela output:

1596 cd

PRODUCT NAME:
ECLPENDANTS FC

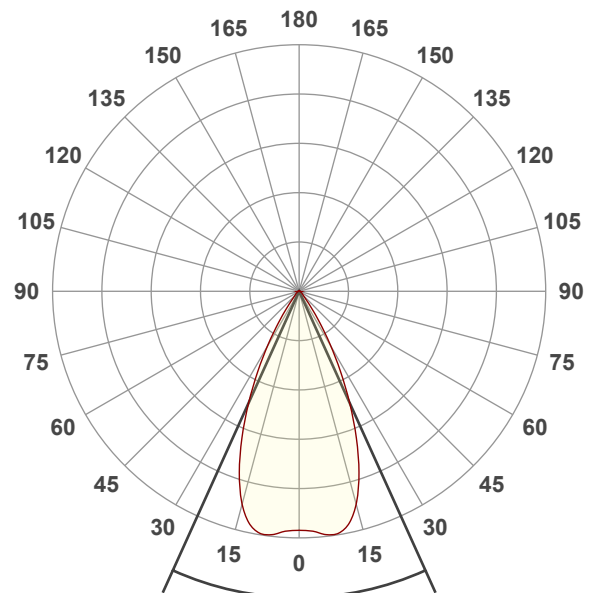
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Green

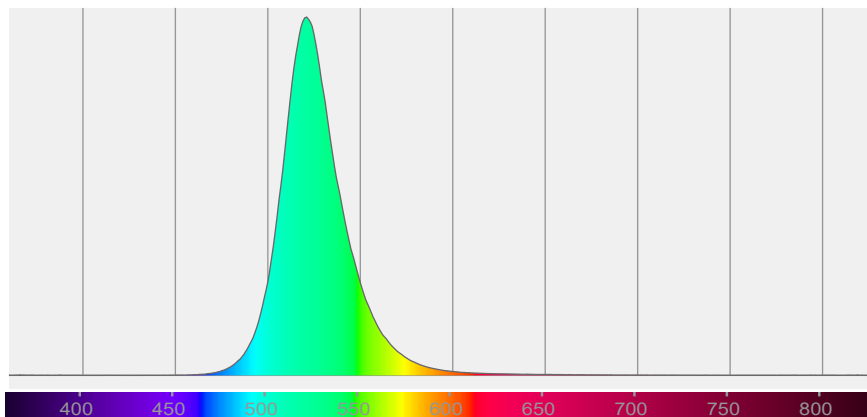
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:15:52



Beam angle 50%: 48,7°
Field angle 10%: 71,4°
Cut off angle 2.5%: 89,7°

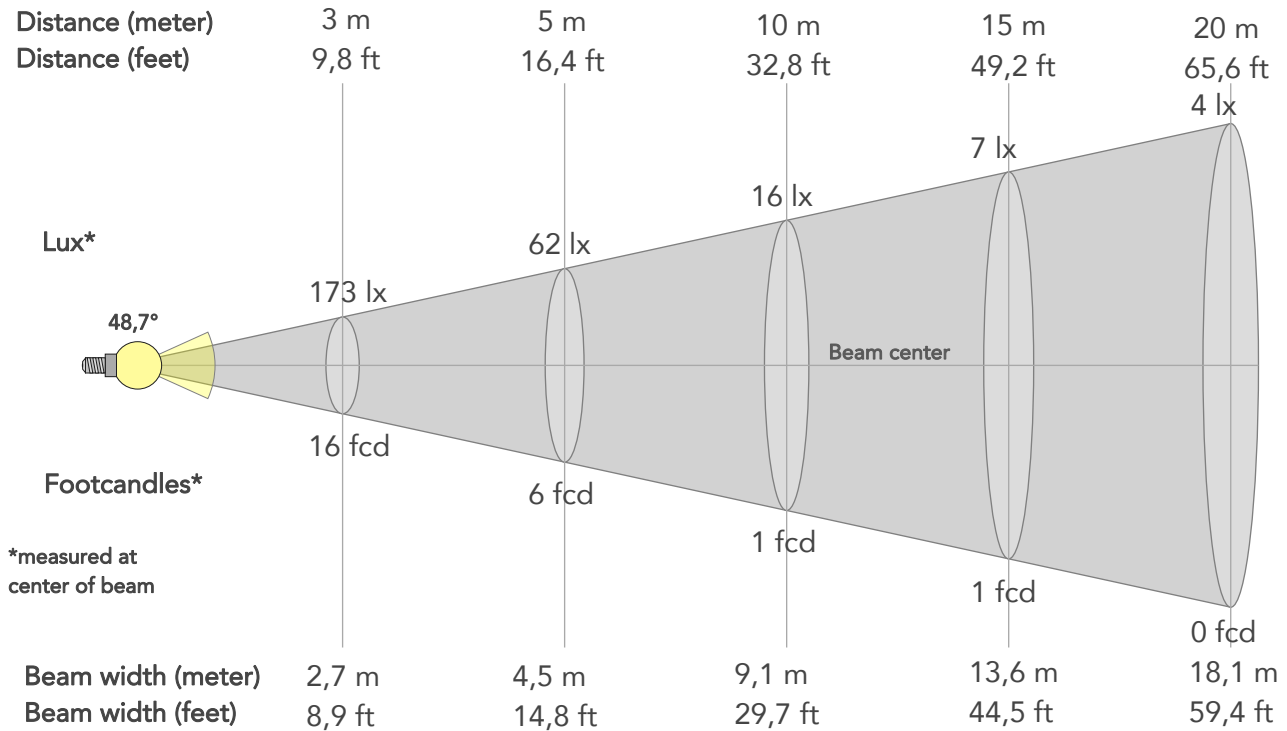
Spectra



BEAM DETAILS



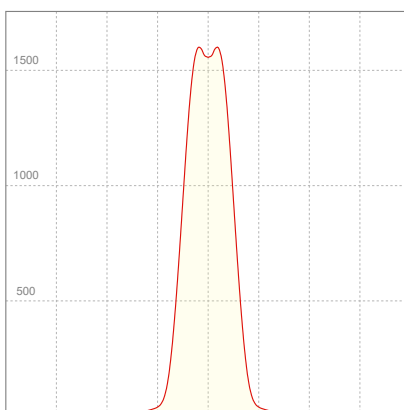
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,7°	71,4°	89,7°	98,3%	95,1%



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	1557lx	389lx	173lx	97lx	62lx	28lx	16lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	145fcd	36fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,1m	22,6m	27,2m	36,2m	45,3m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,8ft	22,3ft	29,7ft	44,5ft	59,4ft	74,2ft	89,1ft	118,7ft	148,4ft

LINEAR DISTRIBUTION DIAGRAM

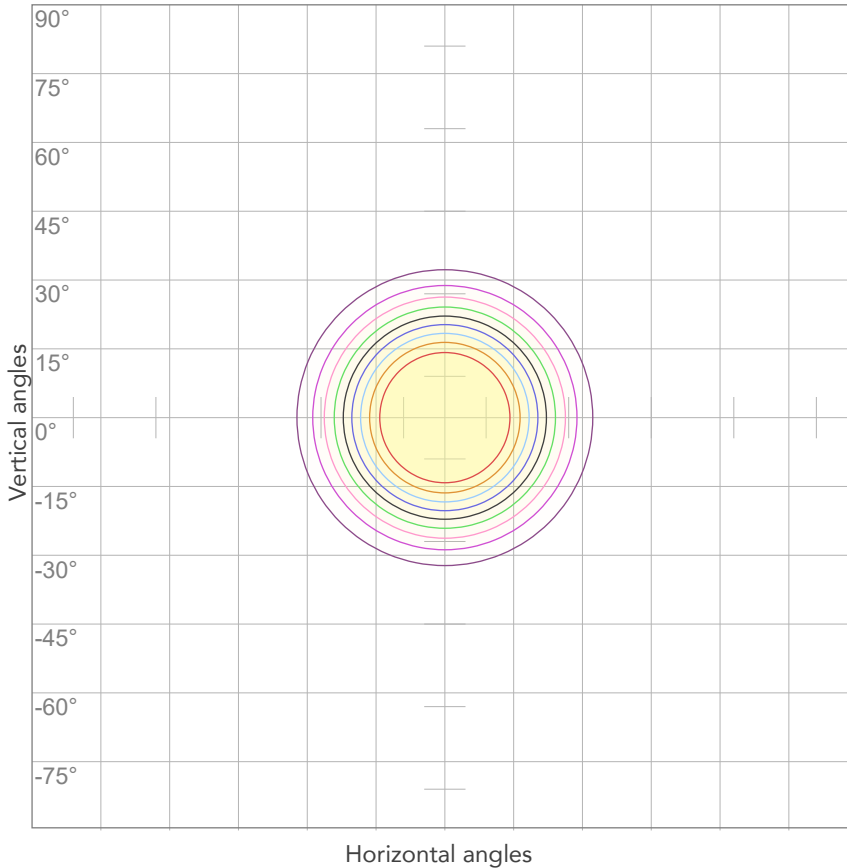


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,149A	26,5W	0,79	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



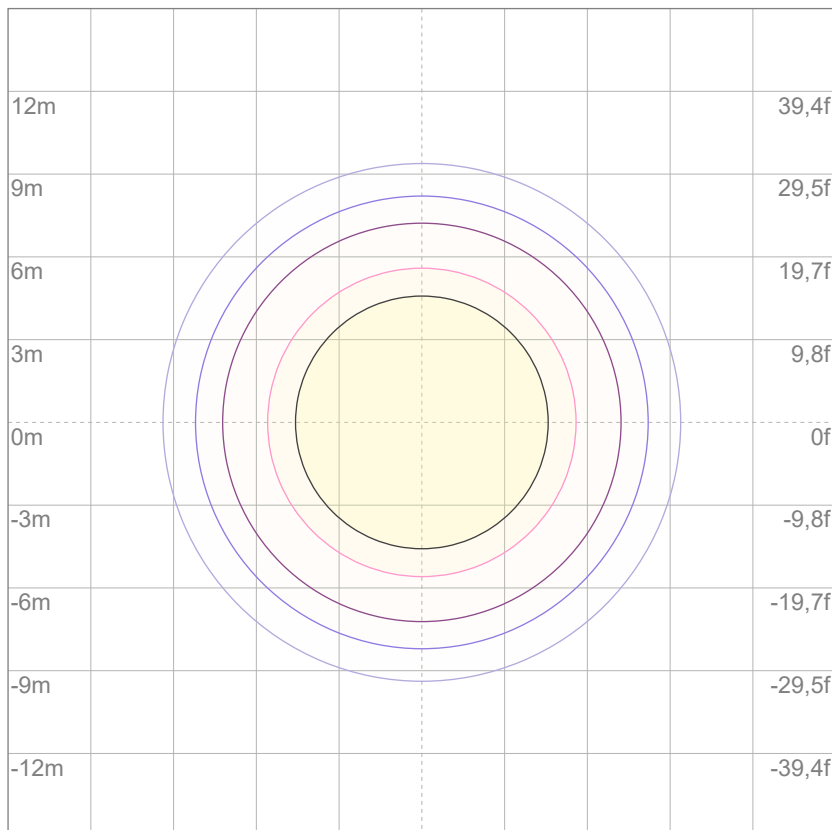
10%	156 cd
20%	311 cd
30%	467 cd
40%	623 cd
50%	778 cd
60%	934 cd
70%	1090 cd
80%	1246 cd

Conditions:

Number of c-planes: 2

Candela at center: 1557 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,467 lx
5%	0,778 lx
10%	1,56 lx
30%	4,67 lx
50%	7,78 lx

Conditions:

Number of c-planes: 2

Lux at center: 15,6 lx

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



Total lumen output:

997 lm

Peak candela output:

867 cd

PRODUCT NAME:
ECLPENDANTS FC

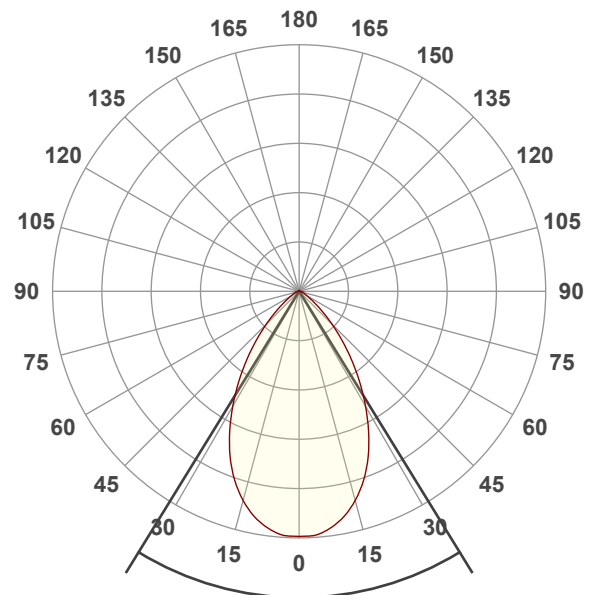
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Green

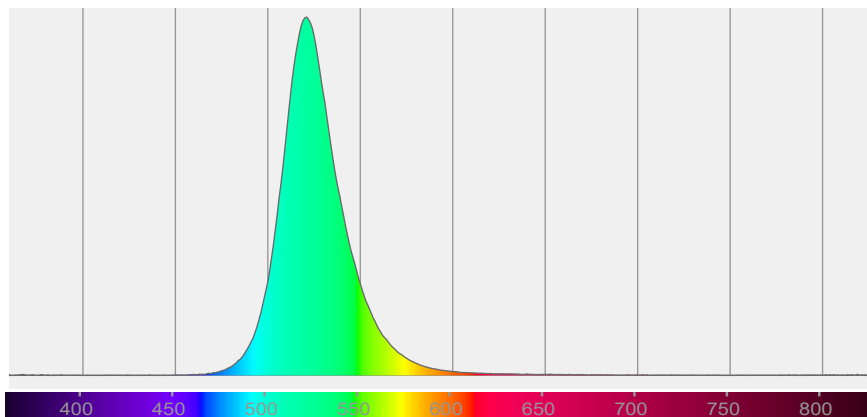
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:59:45



Beam angle 50%: 63,2°
Field angle 10%: 102,4°
Cut off angle 2.5%: 131°

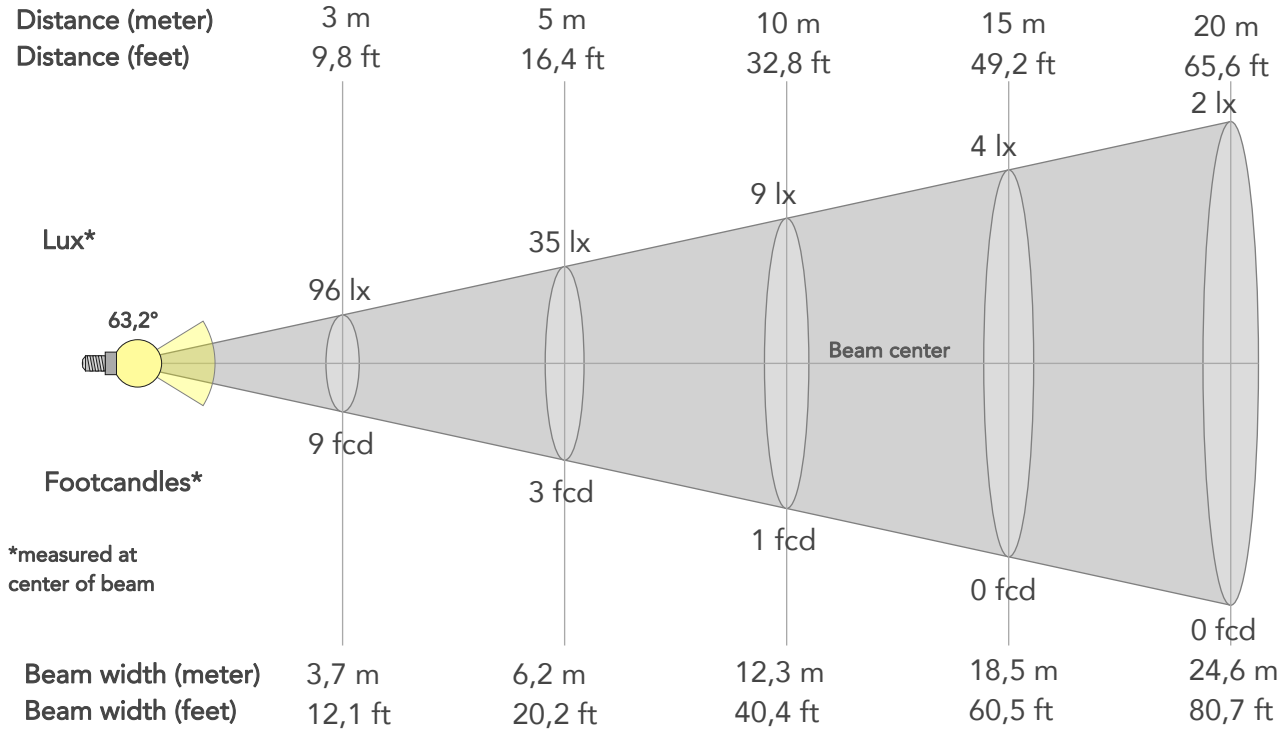
Spectra



BEAM DETAILS



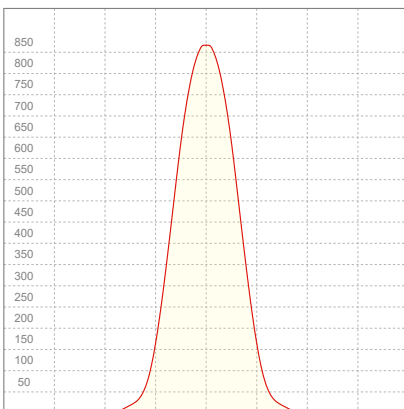
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
63,2°	102,4°	131°	96,6%	86,1%



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	867lx	217lx	96lx	54lx	35lx	15lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	81fcd	20fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,5m	3,7m	4,9m	6,2m	9,2m	12,3m	18,5m	24,6m	30,8m	36,9m	49,2m	61,5m
Beam wid.	4,1ft	8,1ft	12,1ft	16,1ft	20,2ft	30,3ft	40,4ft	60,5ft	80,7ft	100,9ft	121,1ft	161,5ft	201,8ft

LINEAR DISTRIBUTION DIAGRAM

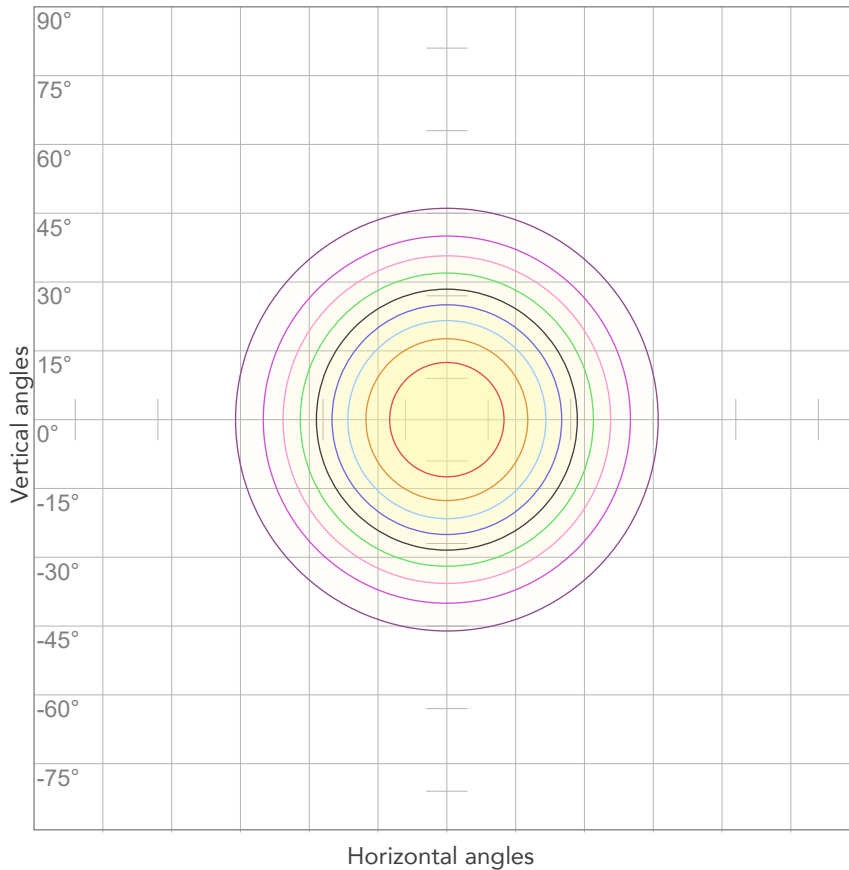


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,150A	26,7W	0,79	37lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM

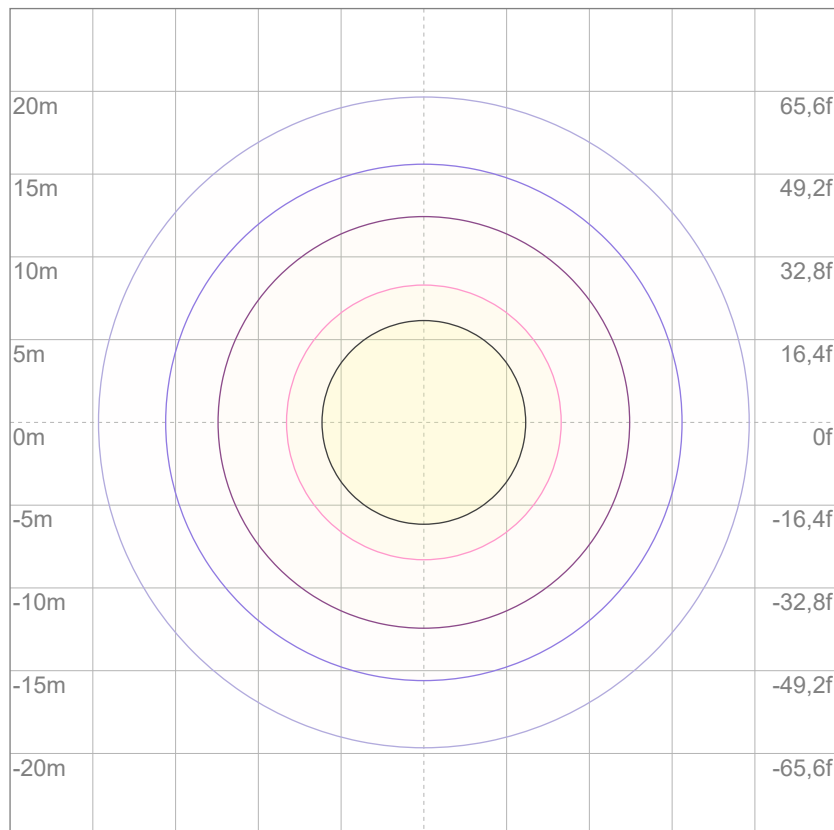


10%	87 cd
20%	173 cd
30%	260 cd
40%	347 cd
50%	433 cd
60%	520 cd
70%	607 cd
80%	693 cd

Conditions:

Number of c-planes: 2
Candela at center: 867 cd

ISO LUX DIAGRAM



3%	0,260 lx
5%	0,433 lx
10%	0,867 lx
30%	2,60 lx
50%	4,33 lx

Conditions:

Number of c-planes: 2
Lux at center: 8,67 lx

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



Total lumen output:

336 lm

Peak candela output:

1365 cd

PRODUCT NAME:
ECLPENDANTS FC

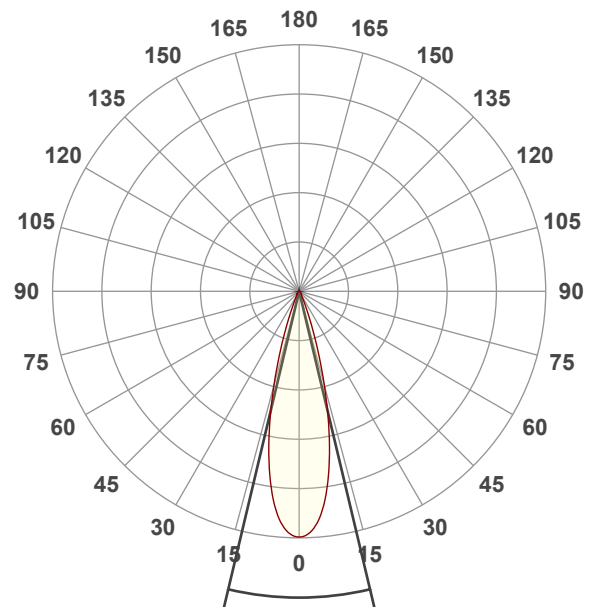
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Blue

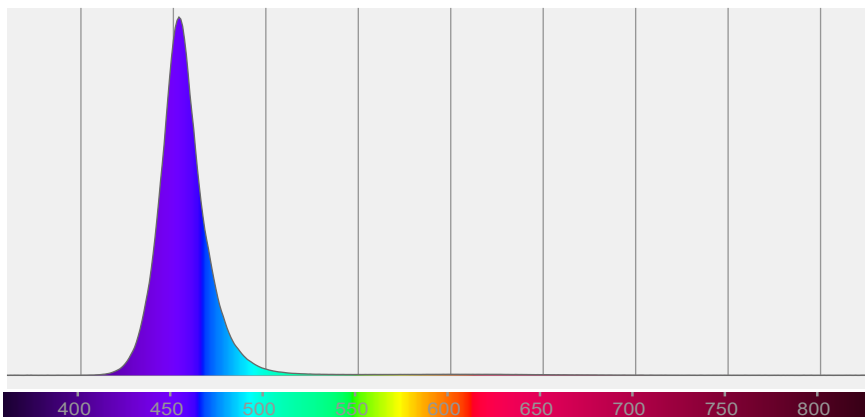
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:03:51



Beam angle 50%: 26,8°
Field angle 10%: 43,5°
Cut off angle 2.5%: 57,9°

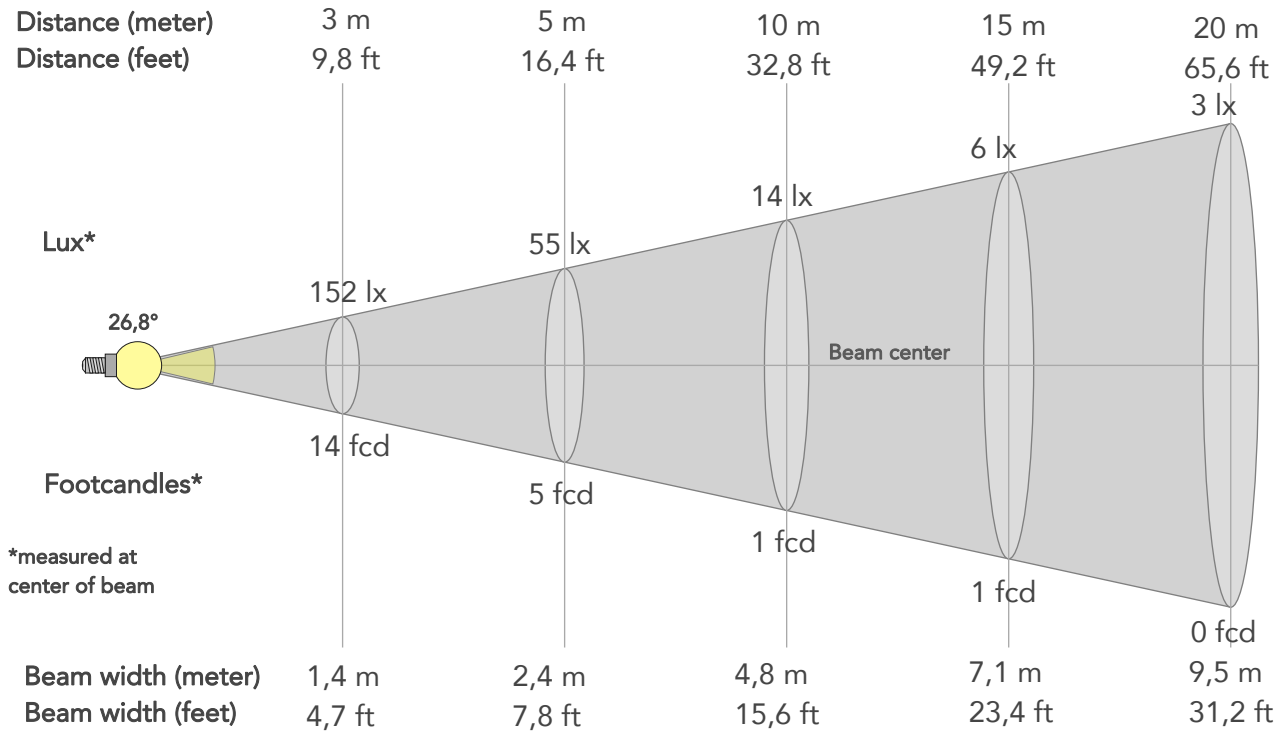
Spectra



BEAM DETAILS



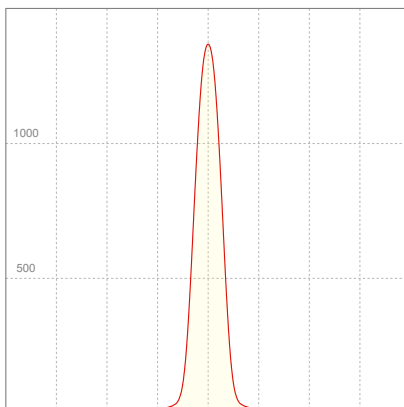
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,8°	43,5°	57,9°	96,9%	93,1%



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	1365lx	341lx	152lx	85lx	55lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	127fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,1m	9,5m	11,9m	14,3m	19m	23,8m
Beam wid.	1,6ft	3,1ft	4,7ft	6,2ft	7,8ft	11,7ft	15,6ft	23,4ft	31,2ft	39ft	46,8ft	62,4ft	78ft

LINEAR DISTRIBUTION DIAGRAM

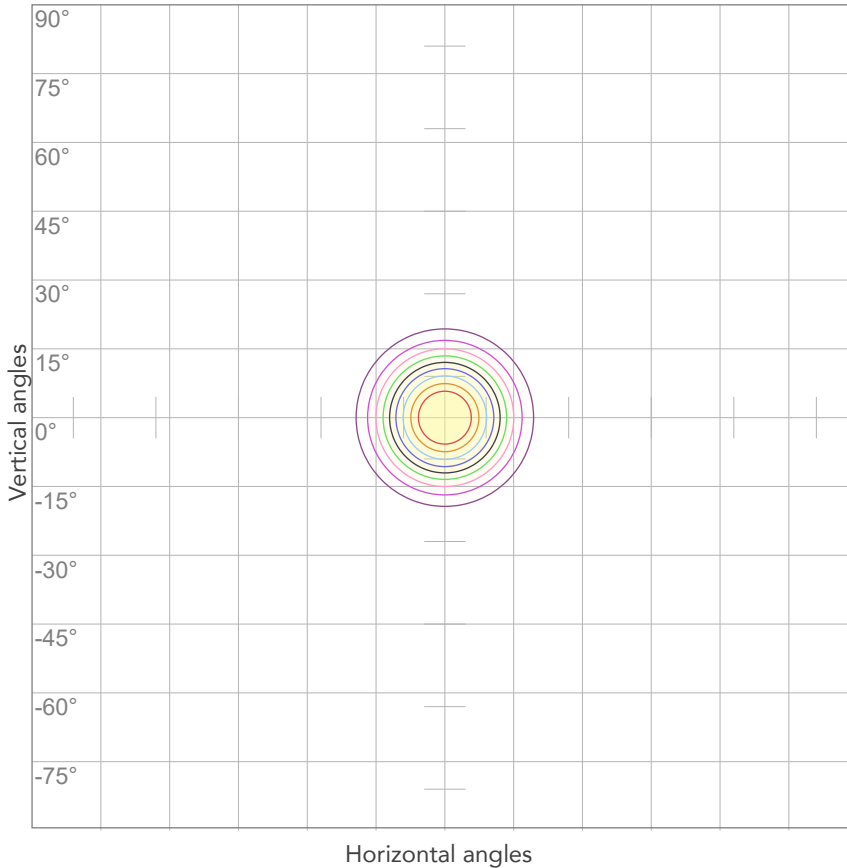


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,177A	33,7W	0,84	10lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



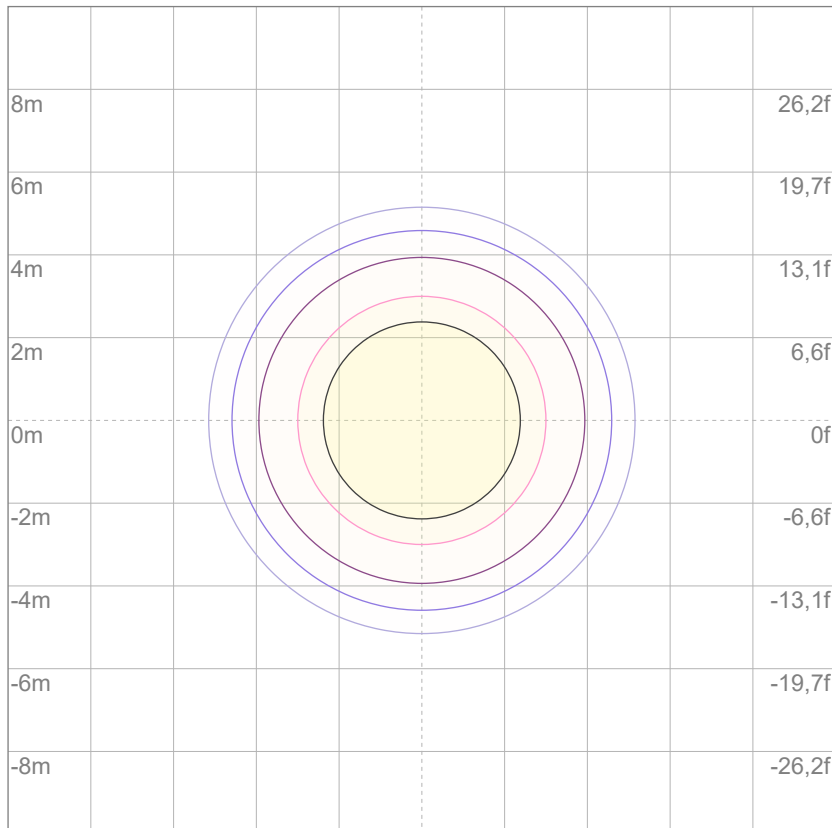
10%	136 cd
20%	273 cd
30%	409 cd
40%	546 cd
50%	682 cd
60%	819 cd
70%	955 cd
80%	1092 cd

Conditions:

Number of c-planes: 2

Candela at center: 1365 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,409 lx
5%	0,682 lx
10%	1,36 lx
30%	4,09 lx
50%	6,82 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,6 lx

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



Total lumen output:

330 lm

Peak candela output:

483 cd

PRODUCT NAME:
ECLPENDANTS FC

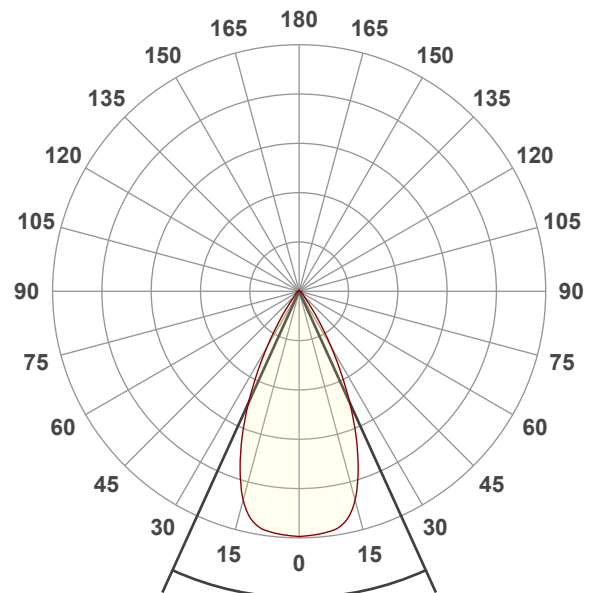
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Blue

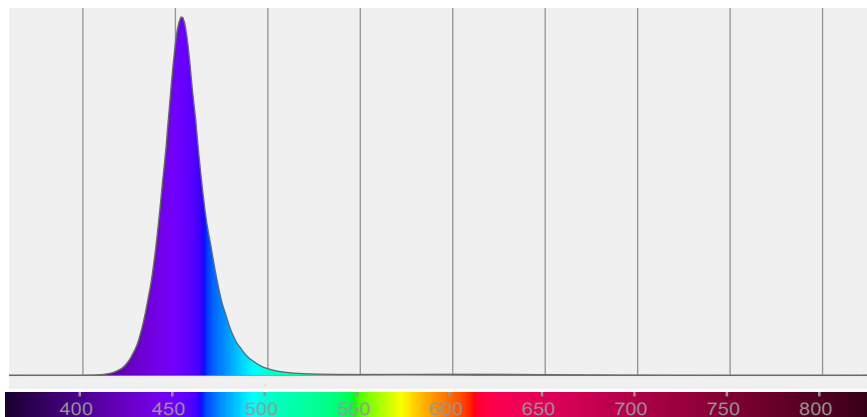
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:17:39



Beam angle 50%: 48,8°
Field angle 10%: 71,6°
Cut off angle 2.5%: 93,4°

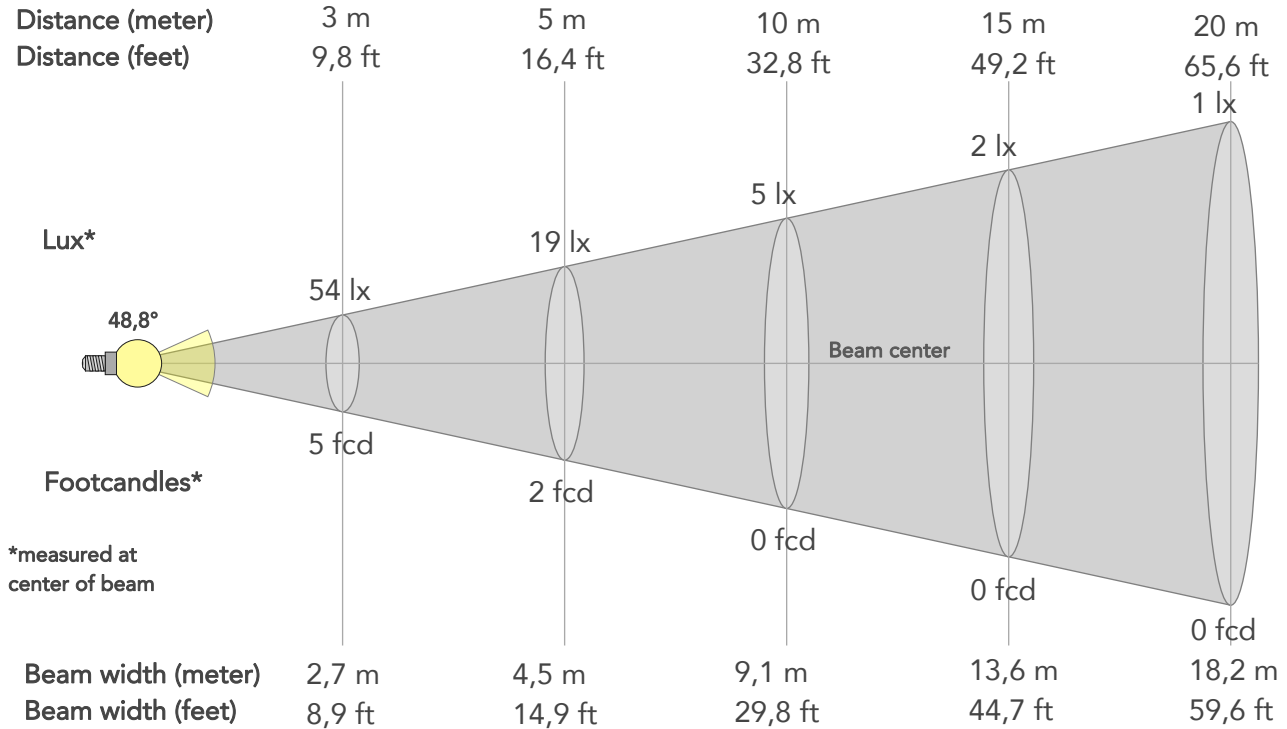
Spectra



BEAM DETAILS



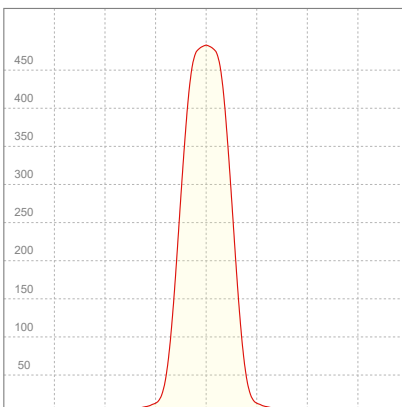
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,8°	71,6°	93,4°	97,1%	93,5%



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	483lx	121lx	54lx	30lx	19lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	45fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,2m	22,7m	27,2m	36,3m	45,4m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,3ft	29,8ft	44,7ft	59,6ft	74,5ft	89,4ft	119,1ft	148,9ft

LINEAR DISTRIBUTION DIAGRAM

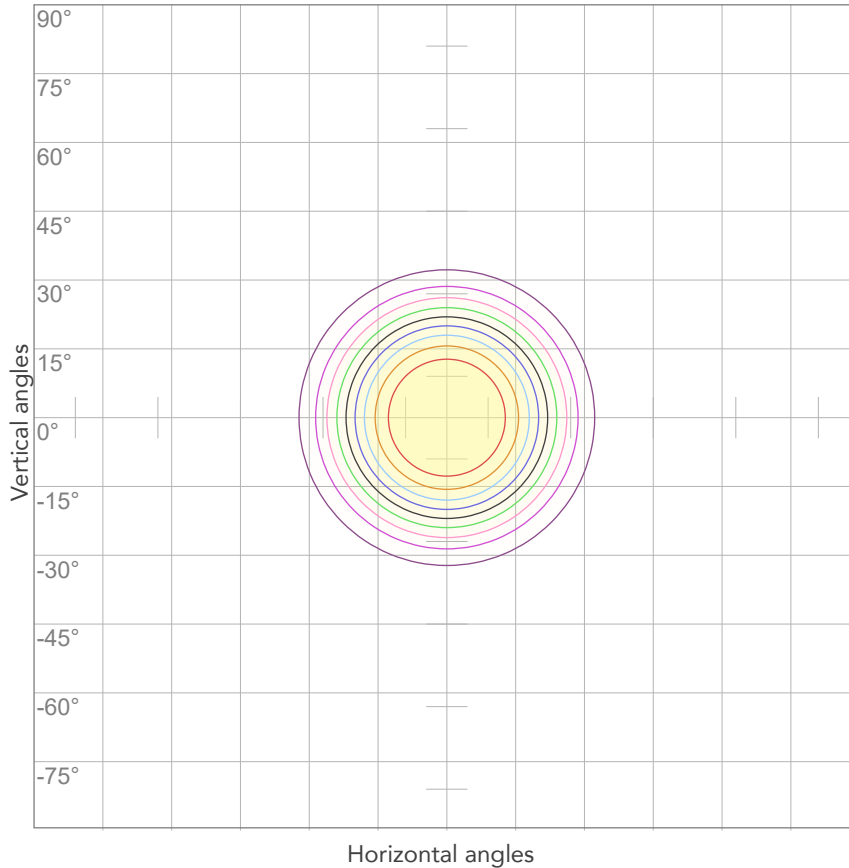


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,175A	33,4W	0,84	10lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM

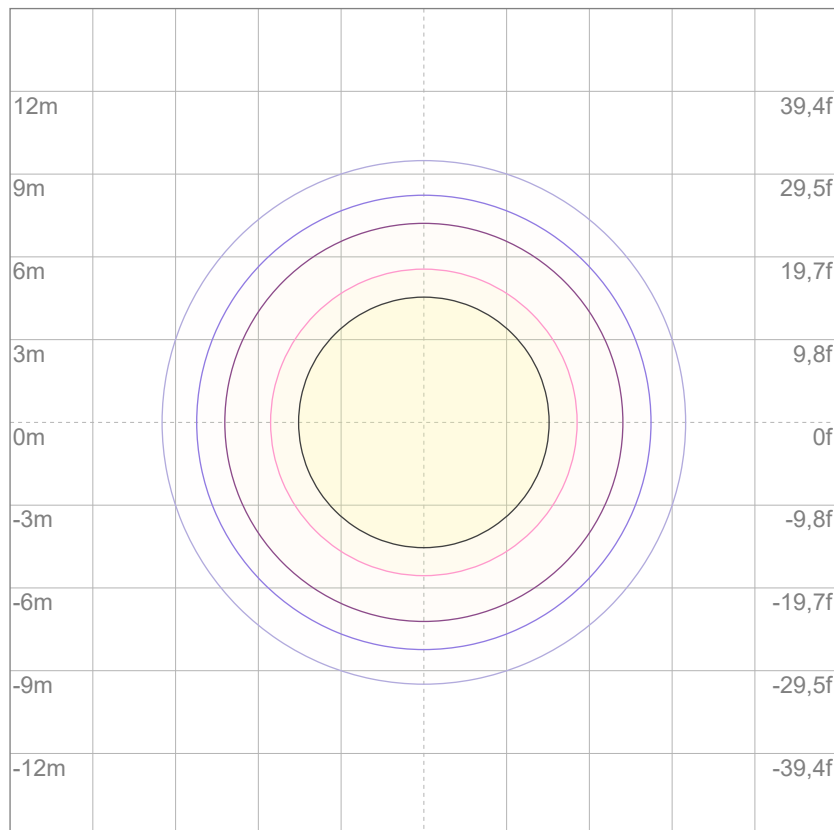


10%	48 cd
20%	97 cd
30%	145 cd
40%	193 cd
50%	241 cd
60%	290 cd
70%	338 cd
80%	386 cd

Conditions:

Number of c-planes: 2
Candela at center: 483 cd

ISO LUX DIAGRAM



3%	0,145 lx
5%	0,241 lx
10%	0,483 lx
30%	1,45 lx
50%	2,41 lx

Conditions:

Number of c-planes: 2
Lux at center: 4,83 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

306 lm

Peak candela output:

261 cd

PRODUCT NAME:
ECLPENDANTS FC

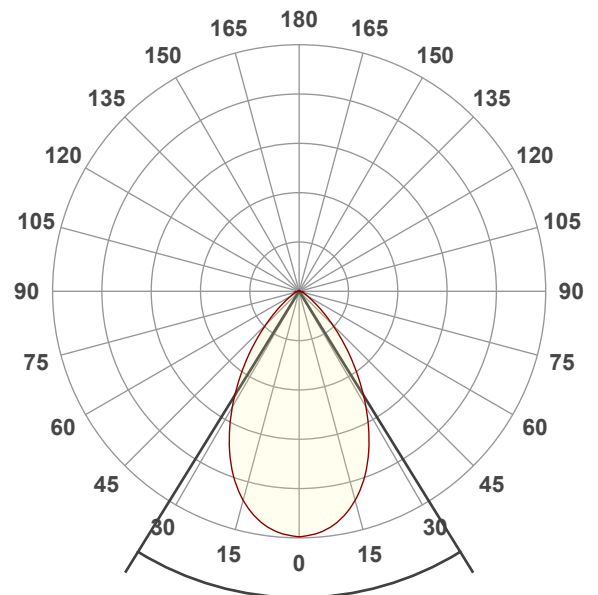
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Blue

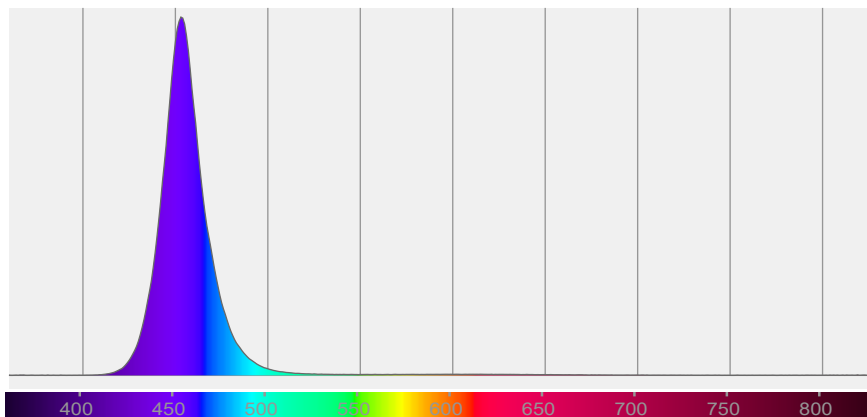
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:01:18



Beam angle 50%: 63,5°
Field angle 10%: 103°
Cut off angle 2.5%: 133,1°

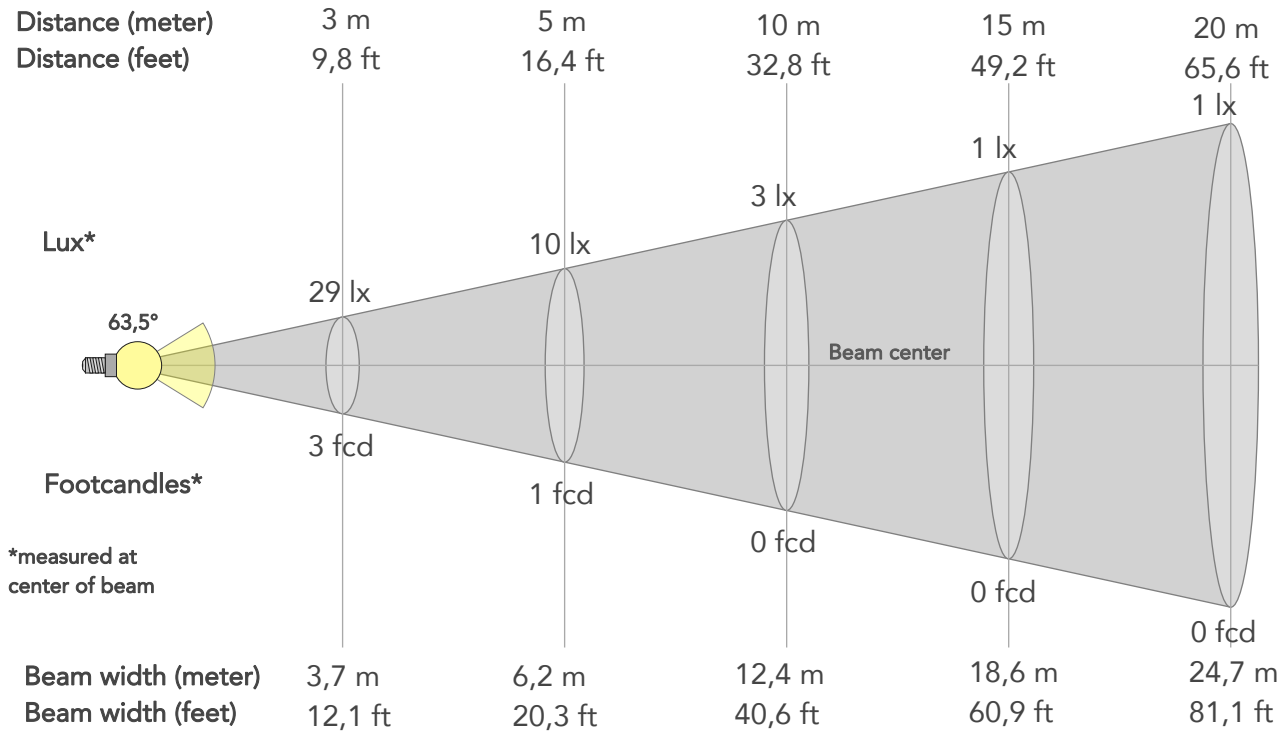
Spectra



BEAM DETAILS



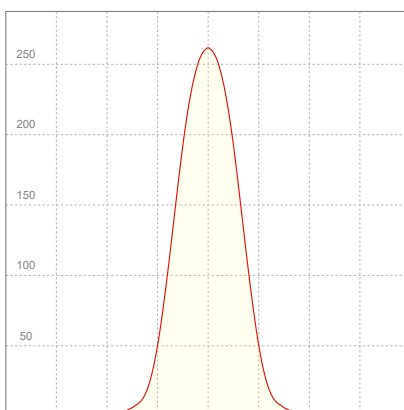
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
63,5°	103°	133,1°	95,5%	84,9%



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	261lx	65lx	29lx	16lx	10lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	24fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,5m	3,7m	4,9m	6,2m	9,3m	12,4m	18,6m	24,7m	30,9m	37,1m	49,5m	61,8m
Beam wid.	4,1ft	8,2ft	12,1ft	16,2ft	20,3ft	30,4ft	40,6ft	60,9ft	81,1ft	101,4ft	121,7ft	162,3ft	202,9ft

LINEAR DISTRIBUTION DIAGRAM

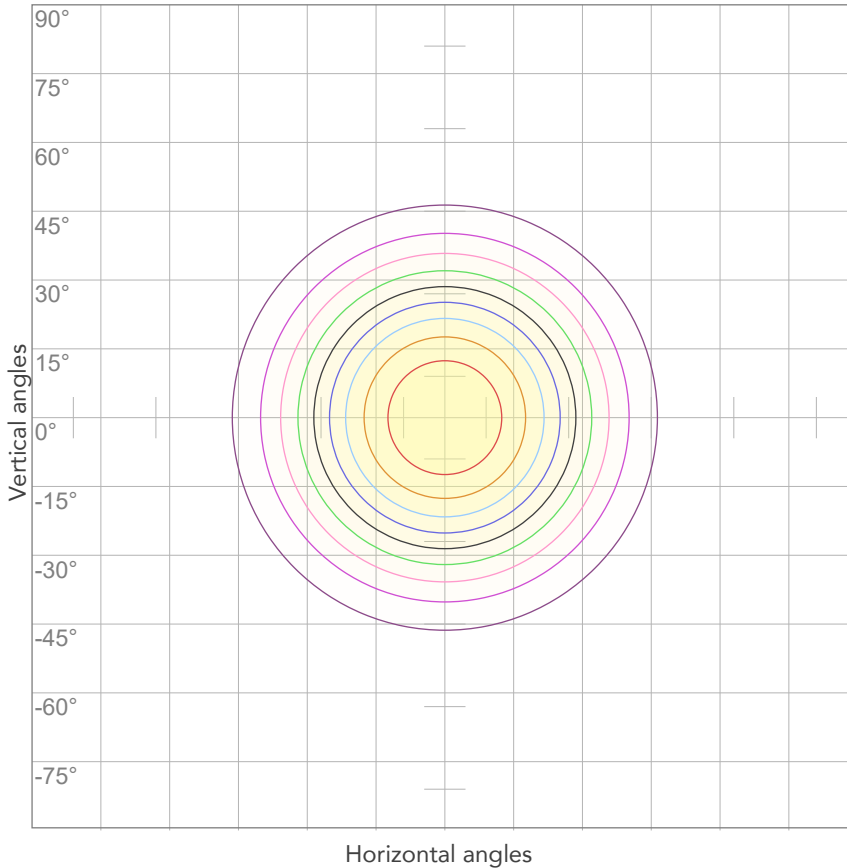


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,176A	33,5W	0,84	9lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM

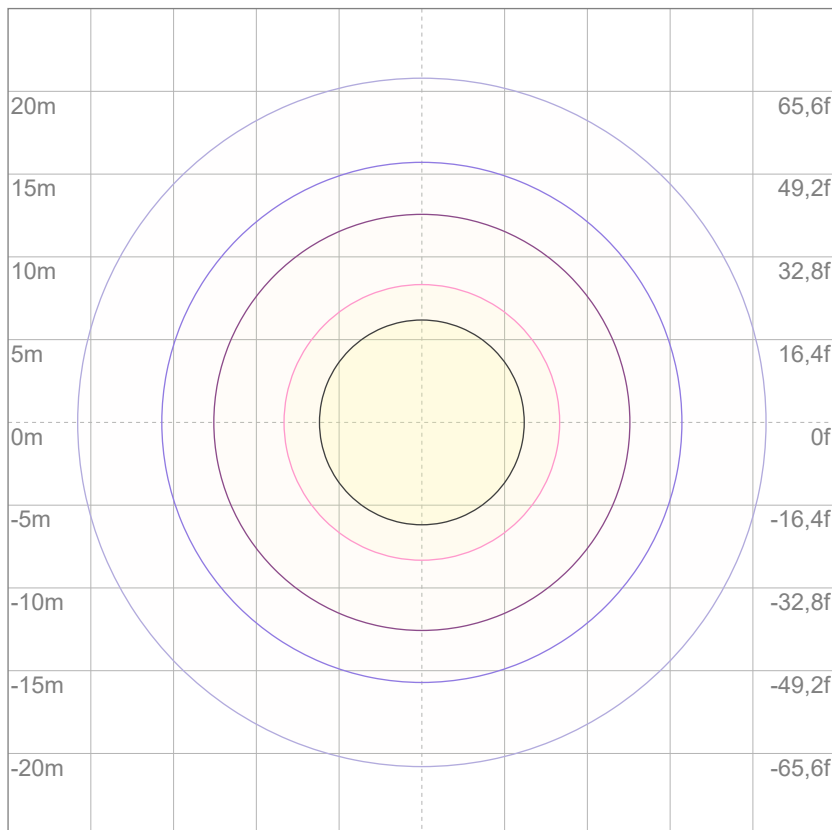


10%	26 cd
20%	52 cd
30%	78 cd
40%	105 cd
50%	131 cd
60%	157 cd
70%	183 cd
80%	209 cd

Conditions:

Number of c-planes: 2
Candela at center: 261 cd

ISO LUX DIAGRAM



3%	78,4m lx
5%	0,131 lx
10%	0,261 lx
30%	0,784 lx
50%	1,31 lx

Conditions:

Number of c-planes: 2
Lux at center: 2,61 lx

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



Total lumen output:

2881 lm

Peak candela output:

15249 cd

PRODUCT NAME:
ECLPENDANTS FC

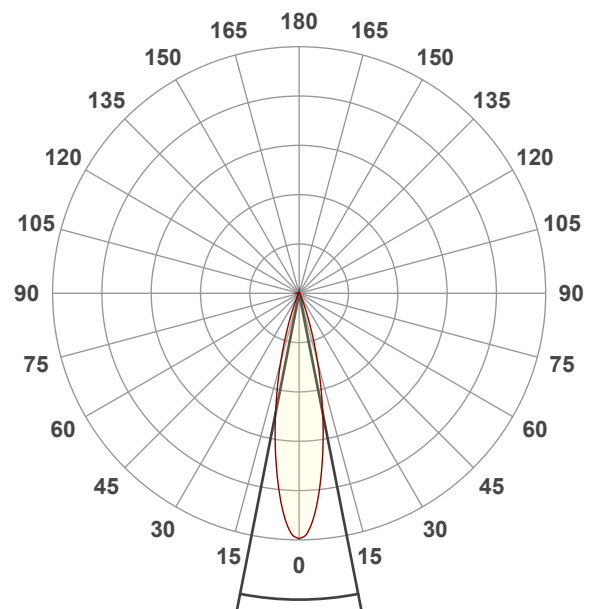
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
White

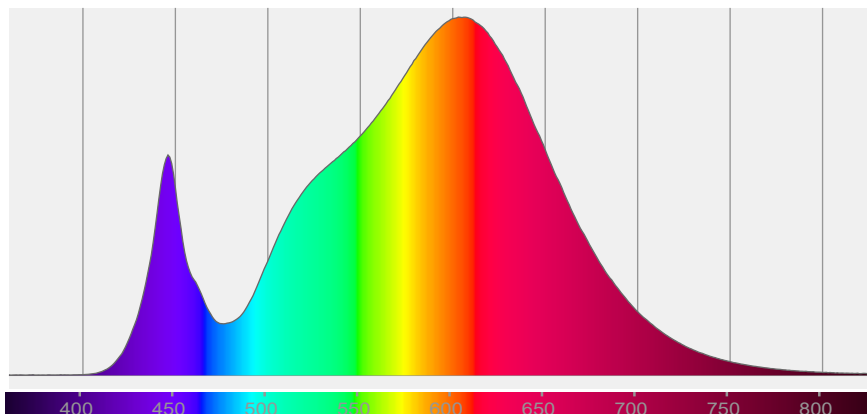
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:05:21



Beam angle 50%: 22,2°
Field angle 10%: 40,4°
Cut off angle 2.5%: 53,2°

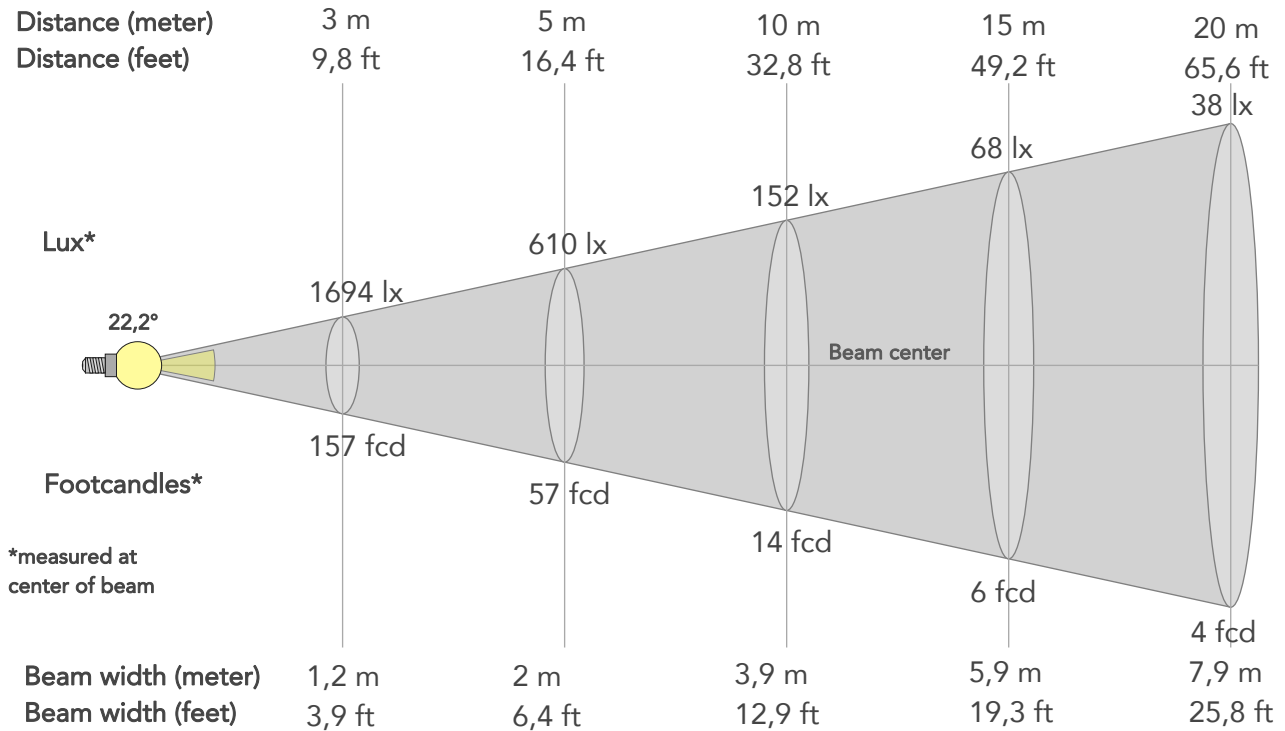
Spectra



BEAM DETAILS



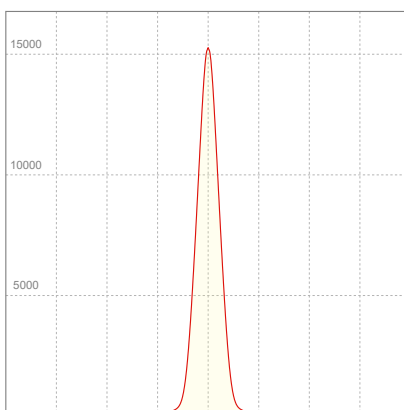
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,2°	40,4°	53,2°	98,2%	95,1%



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	15249lx	3812lx	1694lx	953lx	610lx	271lx	152lx	68lx	38lx	24lx	17lx	10lx	6lx
Footcand.	1417fcd	354fcd	157fcd	89fcd	57fcd	25fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	2,9m	3,9m	5,9m	7,9m	9,8m	11,8m	15,7m	19,6m
Beam wid.	1,3ft	2,6ft	3,9ft	5,1ft	6,4ft	9,7ft	12,9ft	19,3ft	25,8ft	32,2ft	38,7ft	51,6ft	64,4ft

LINEAR DISTRIBUTION DIAGRAM

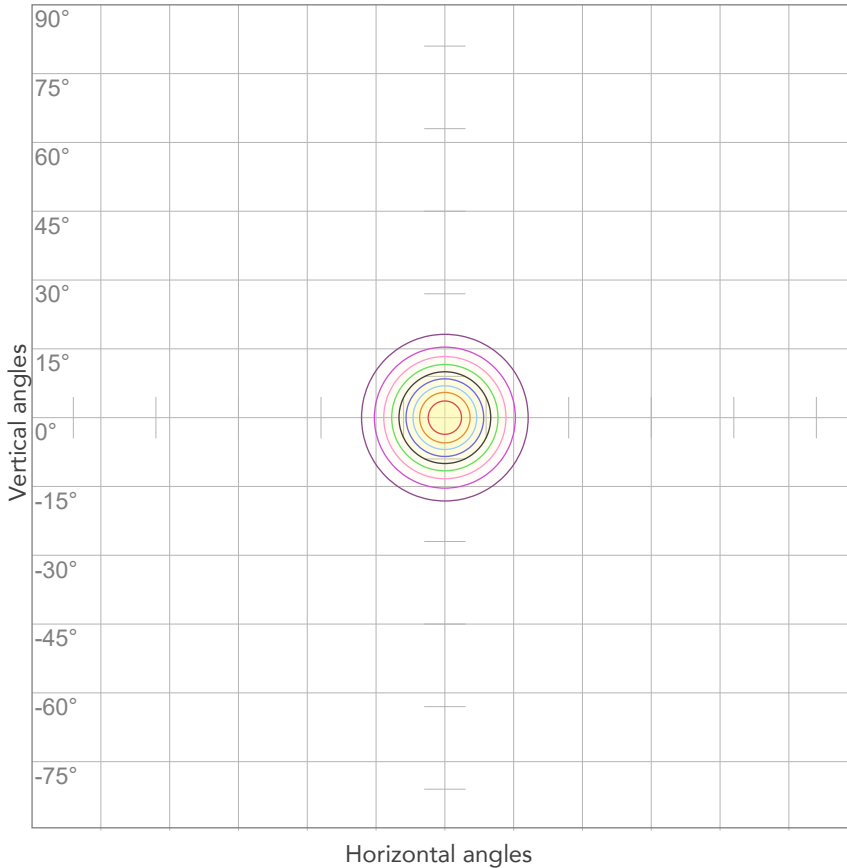


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,255A	52,9W	0,92	54lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



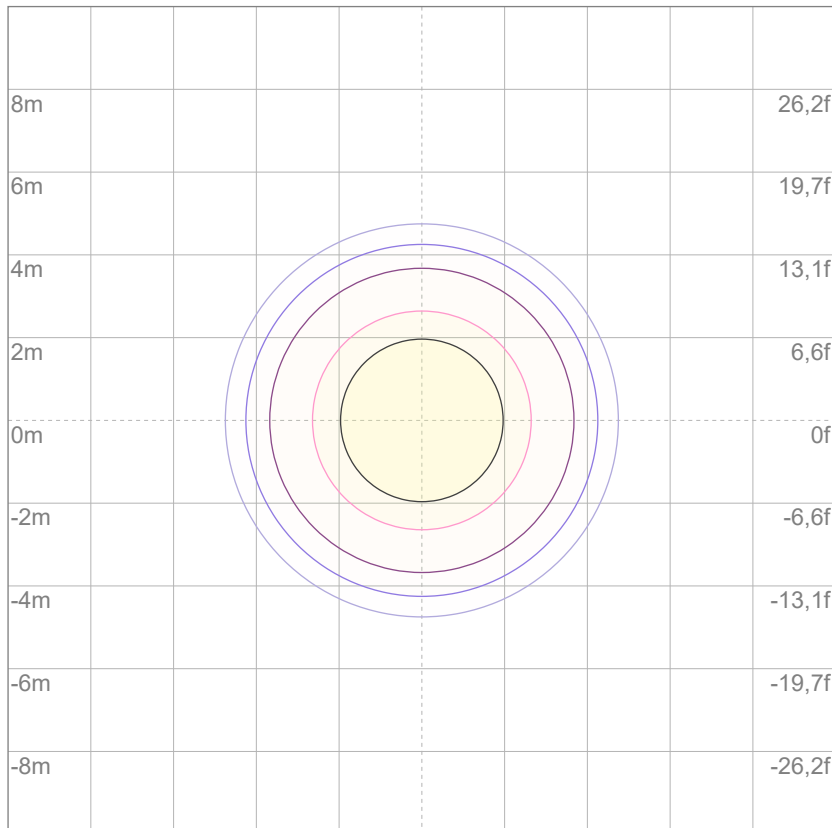
10%	1525 cd
20%	3050 cd
30%	4575 cd
40%	6099 cd
50%	7624 cd
60%	9149 cd
70%	10674 cd
80%	12199 cd

Conditions:

Number of c-planes: 2

Candela at center: 15249 cd

ISO LUX DIAGRAM



3%	4,57 lx
5%	7,62 lx
10%	15,2 lx
30%	45,7 lx
50%	76,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 152 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2835 lm

Peak candela output:

5077 cd

PRODUCT NAME:
ECLPENDANTS FC

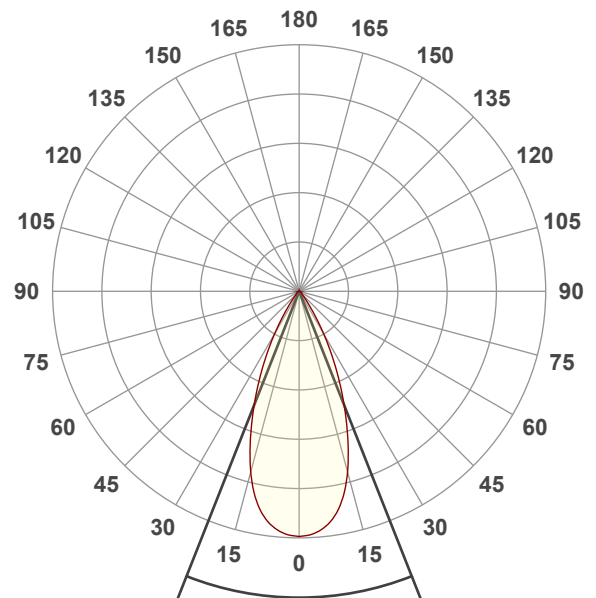
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
White

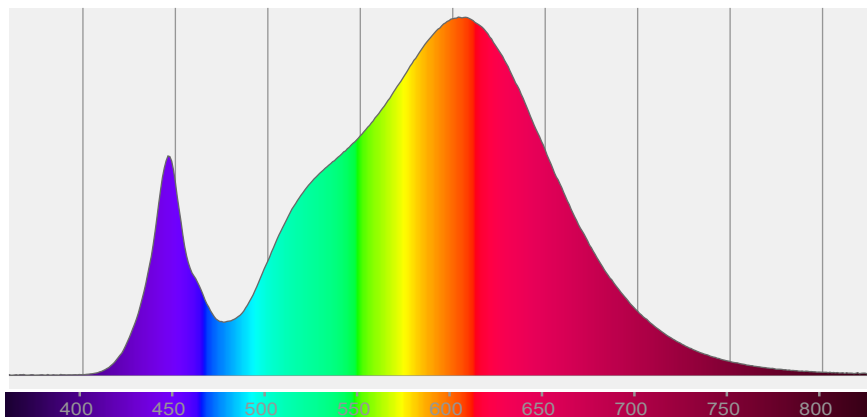
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:19:07



Beam angle 50%: 43,1°
Field angle 10%: 68,2°
Cut off angle 2.5%: 84,5°

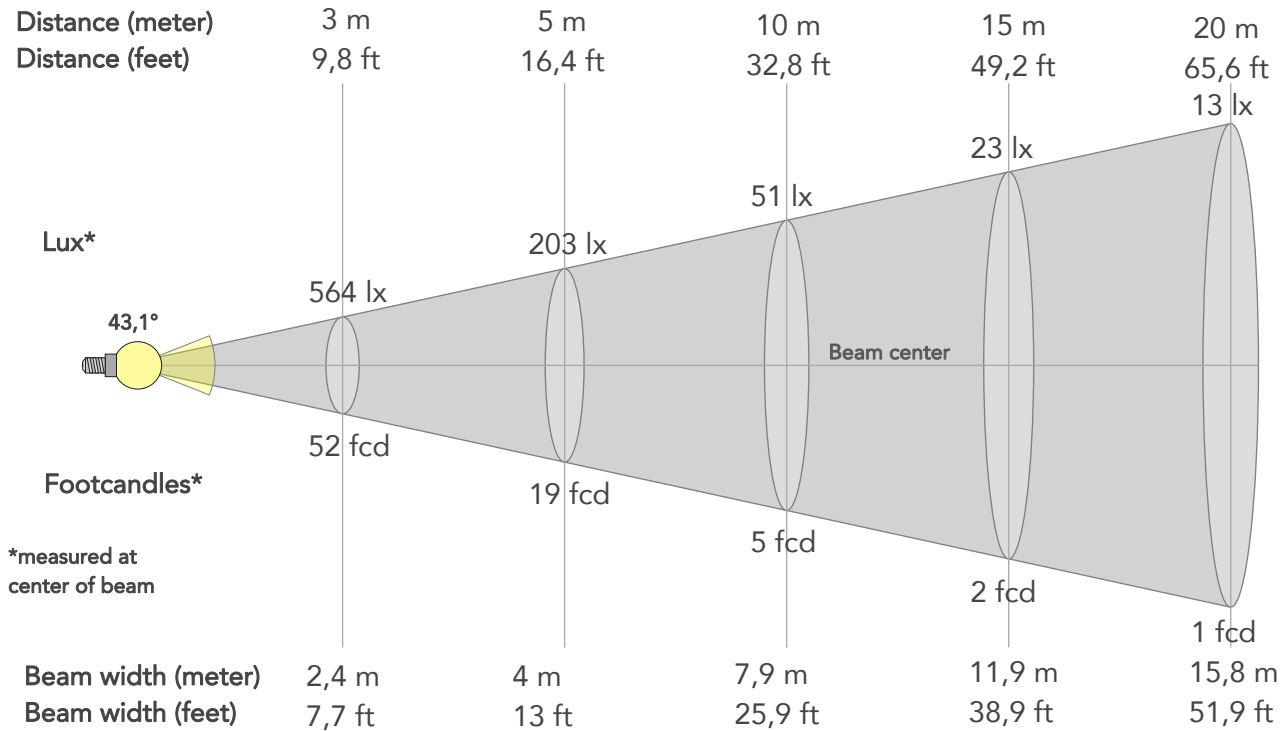
Spectra



BEAM DETAILS



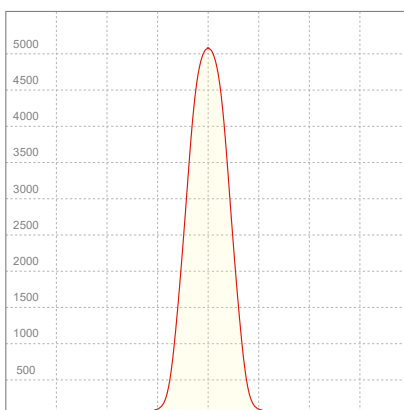
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43,1°	68,2°	84,5°	98,4%	95,4%



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	5077lx	1269lx	564lx	317lx	203lx	90lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	472fcd	118fcd	52fcd	29fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	4m	5,9m	7,9m	11,9m	15,8m	19,8m	23,7m	31,6m	39,5m
Beam wid.	2,6ft	5,2ft	7,7ft	10,4ft	13ft	19,4ft	25,9ft	38,9ft	51,9ft	64,8ft	77,8ft	103,7ft	129,6ft

LINEAR DISTRIBUTION DIAGRAM

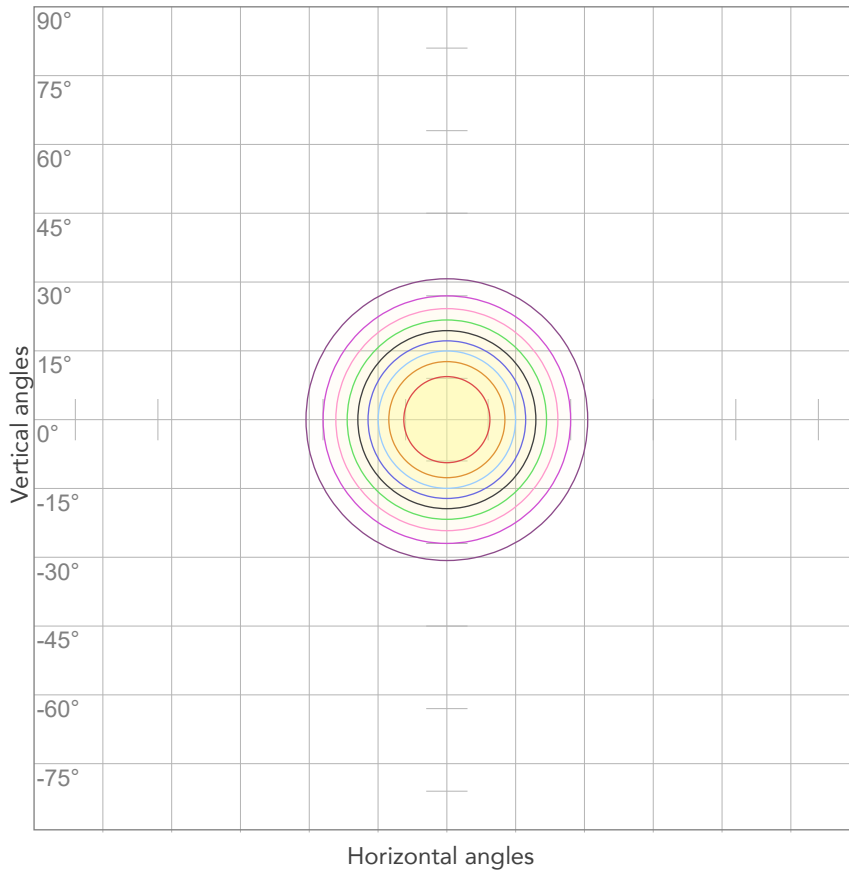


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,252A	52,2W	0,92	54lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



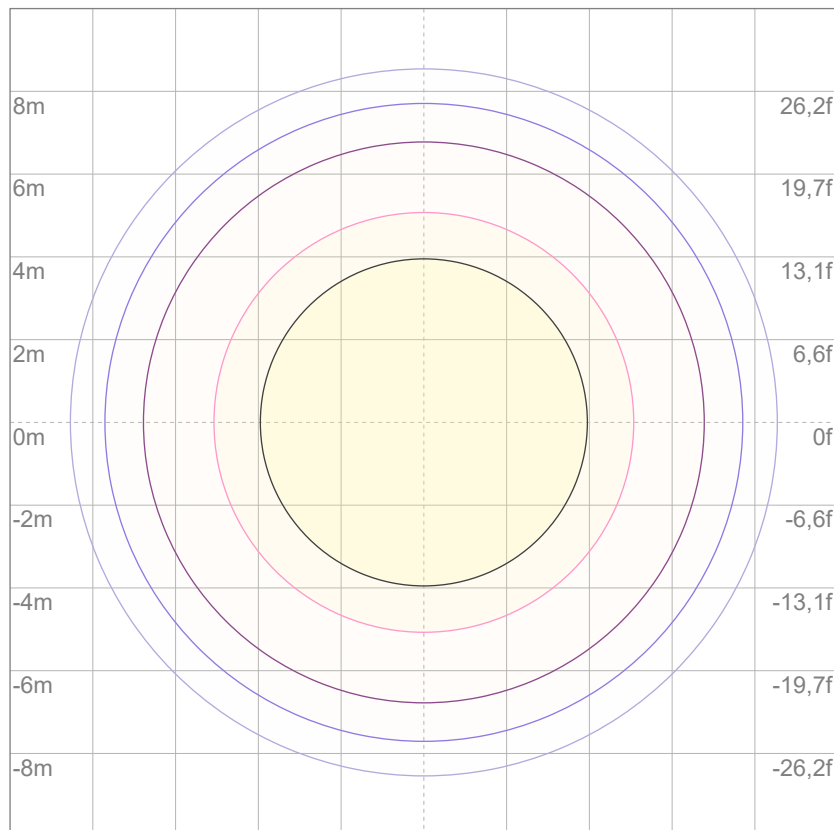
10%	508 cd
20%	1015 cd
30%	1523 cd
40%	2031 cd
50%	2539 cd
60%	3046 cd
70%	3554 cd
80%	4062 cd

Conditions:

Number of c-planes: 2

Candela at center: 5077 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,52 lx
5%	2,54 lx
10%	5,08 lx
30%	15,2 lx
50%	25,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 50,8 lx

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



Total lumen output:

2678 lm

Peak candela output:

2390 cd

PRODUCT NAME:
ECLPENDANTS FC

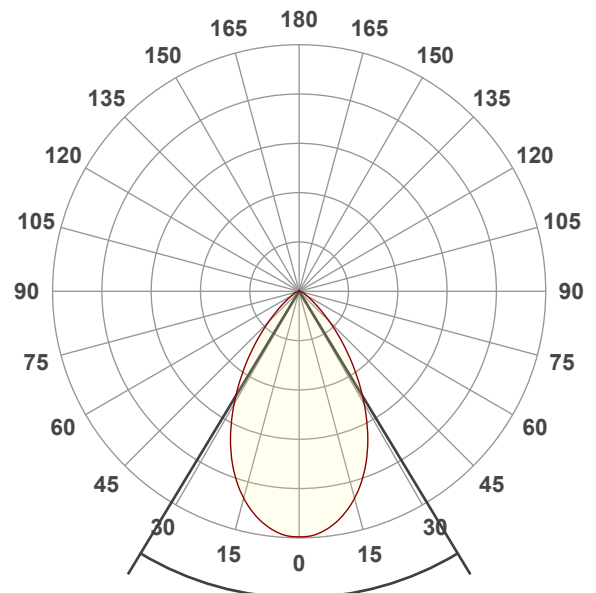
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
White

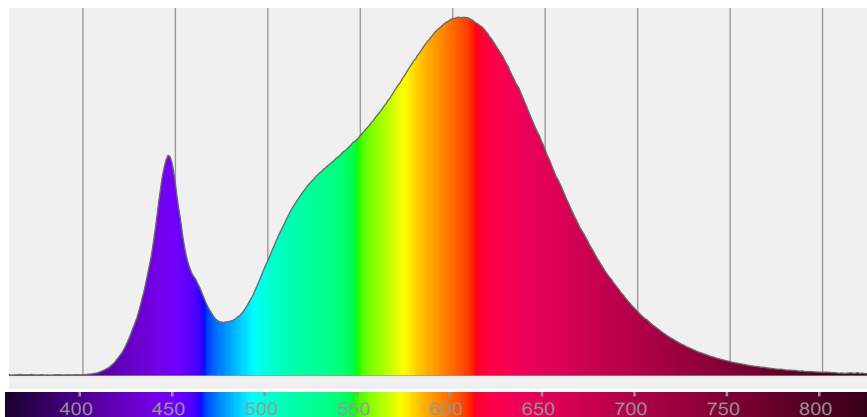
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:02:48



Beam angle 50%: 62,3°
Field angle 10%: 100,8°
Cut off angle 2.5%: 129,3°

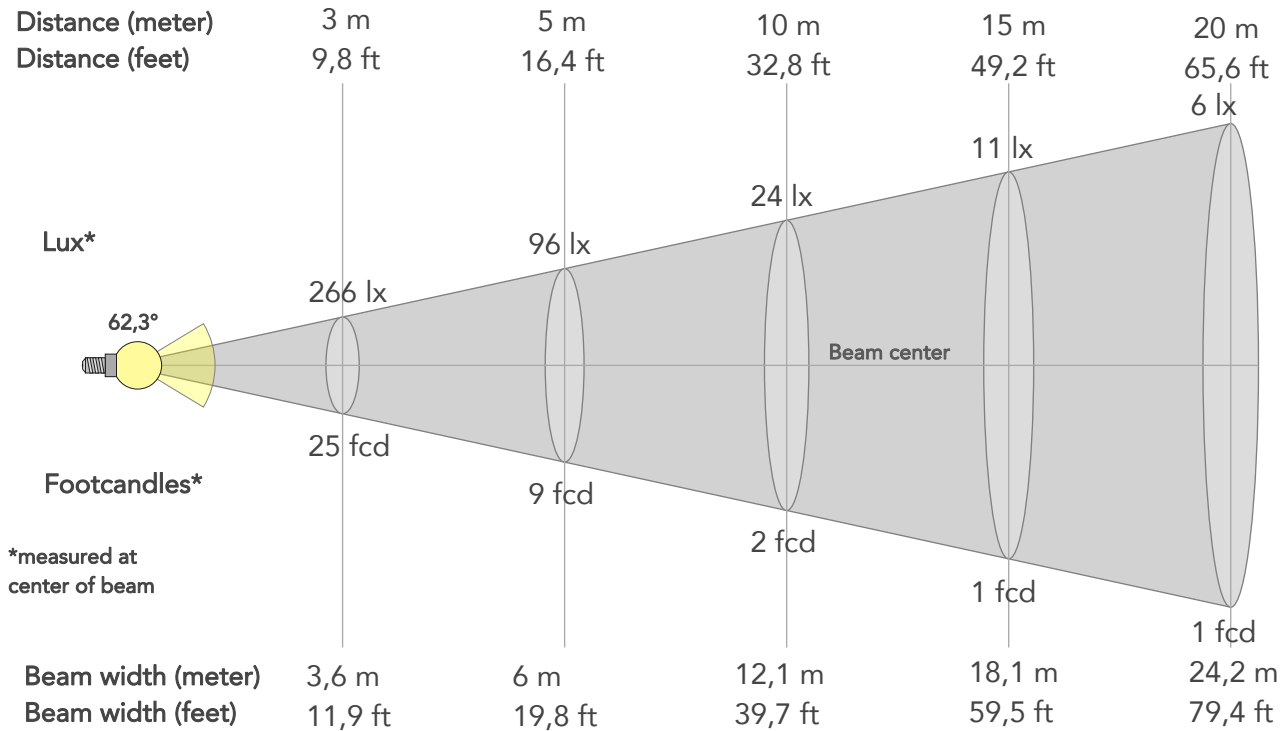
Spectra



BEAM DETAILS



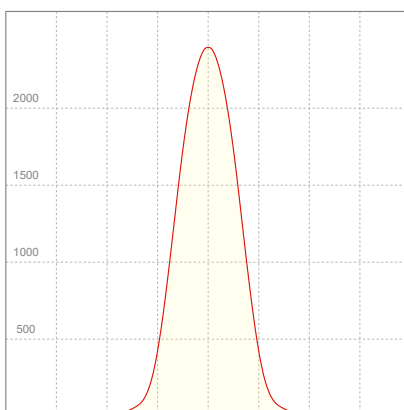
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,3°	100,8°	129,3°	96,6%	86,7%



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	2390lx	597lx	266lx	149lx	96lx	42lx	24lx	11lx	6lx	4lx	3lx	1lx	1lx
Footcand.	222fcd	56fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6m	9,1m	12,1m	18,1m	24,2m	30,2m	36,3m	48,4m	60,5m
Beam wid.	4ft	8ft	11,9ft	15,8ft	19,8ft	29,8ft	39,7ft	59,5ft	79,4ft	99,2ft	119ft	158,7ft	198,4ft

LINEAR DISTRIBUTION DIAGRAM

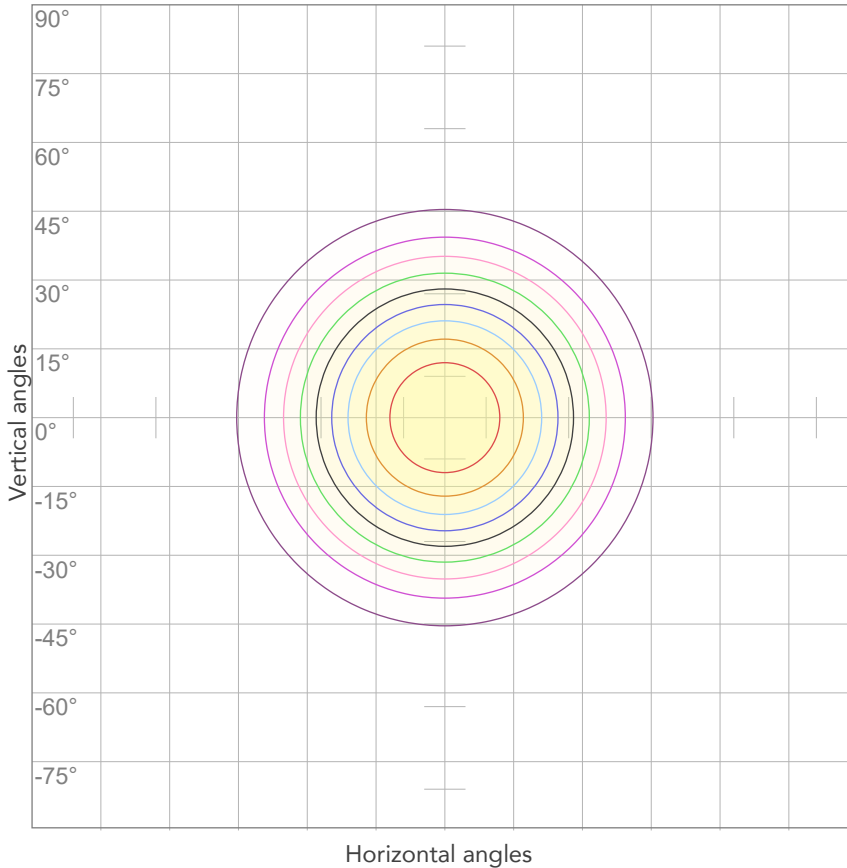


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,253A	52,3W	0,92	51lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



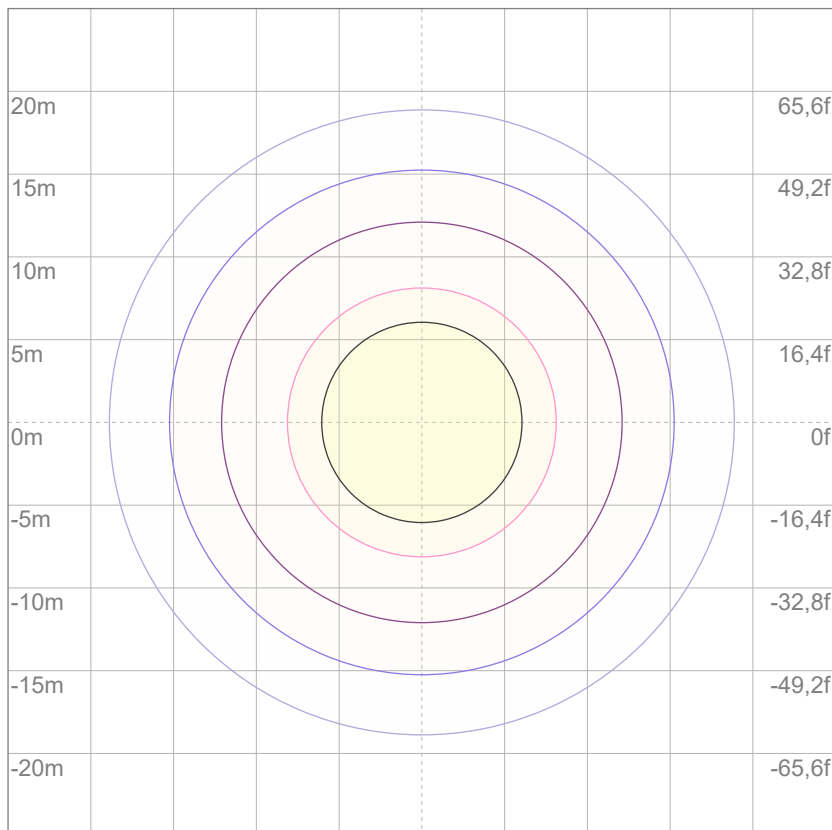
10%	239 cd
20%	478 cd
30%	717 cd
40%	956 cd
50%	1195 cd
60%	1434 cd
70%	1673 cd
80%	1912 cd

Conditions:

Number of c-planes: 2

Candela at center: 2390 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,717 lx
5%	1,19 lx
10%	2,39 lx
30%	7,17 lx
50%	11,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 23,9 lx

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



Total lumen output:

3063 lm

Peak candela output:

15880 cd

Light quality:

CRI: 93,0

Color temperature:

2808 K

PRODUCT NAME:
ECLPENDANTS FC

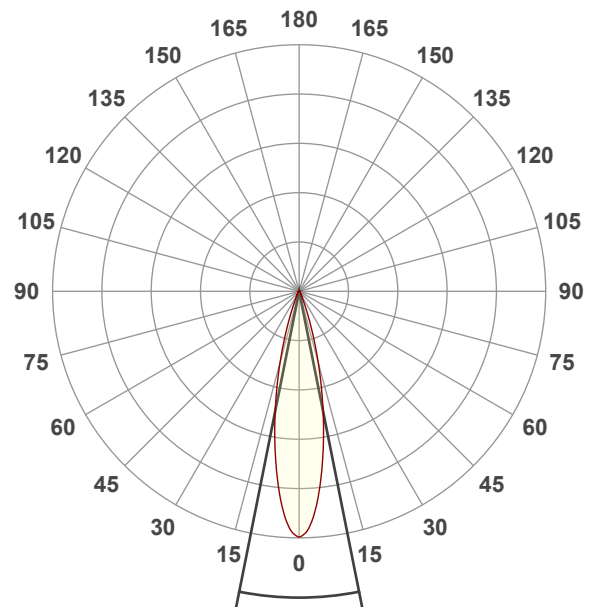
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
2800K

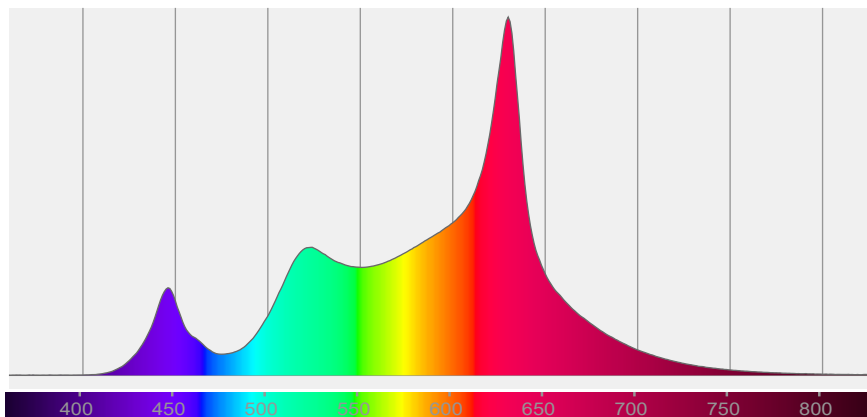
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:08:29

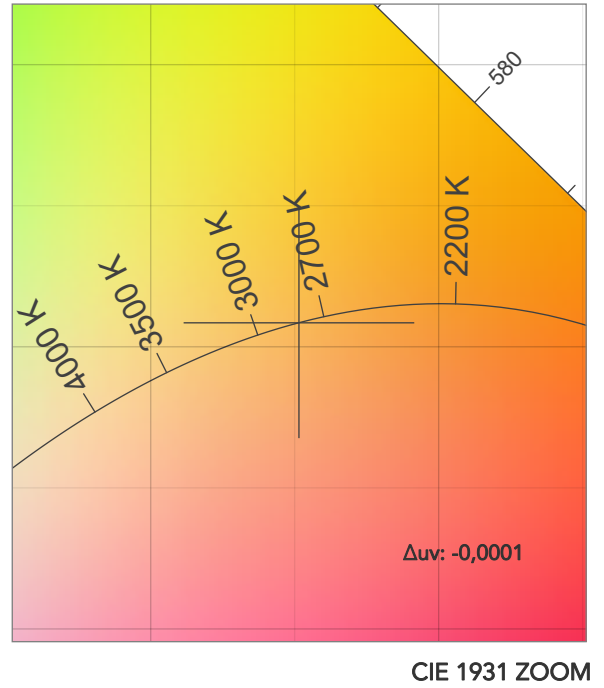
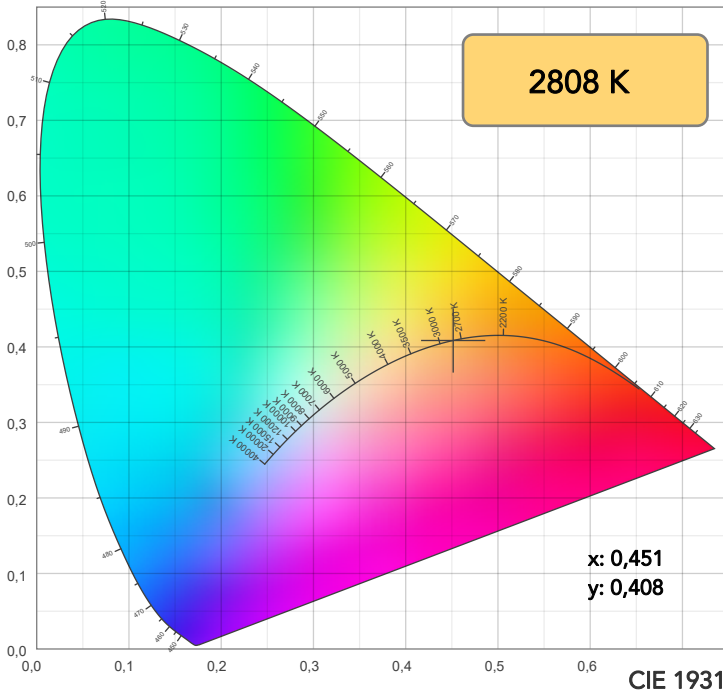


Beam angle 50%: 22,6°
Field angle 10%: 40,8°
Cut off angle 2.5%: 53,5°

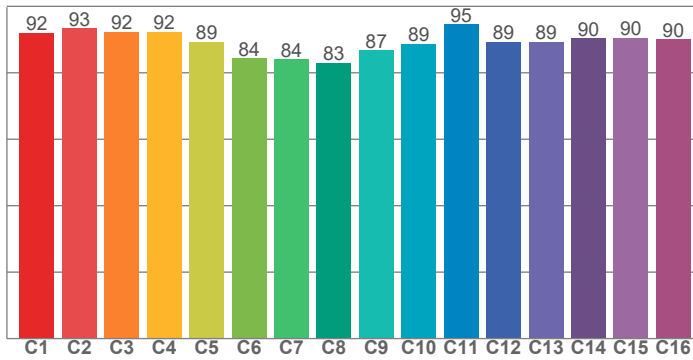
Spectra



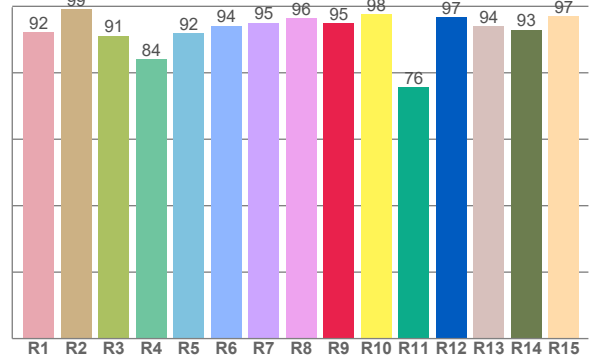
COLOR DETAILS



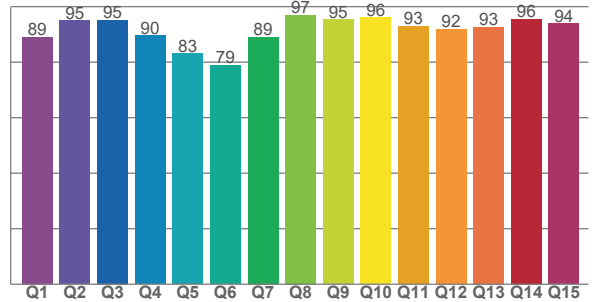
TM30: 90,0



CRI: 93,0 (R1-R8)



CQS: 90,0



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
92,2	99,1	91,2	84,0	91,9	94,1	95,1	96,4	94,9	97,7	75,7	96,7	94,0	93,0	97,0

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
92,1	93,4	92,4	92,3	89,4	84,4	84,0	83,0	86,7	88,8	94,5	89,3	89,3	90,3	90,5	90,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,1	95,0	95,1	89,6	83,0	78,9	89,1	96,9	95,3	96,1	93,0	92,0	92,6	95,5	93,9

COLOR PARAMETERS

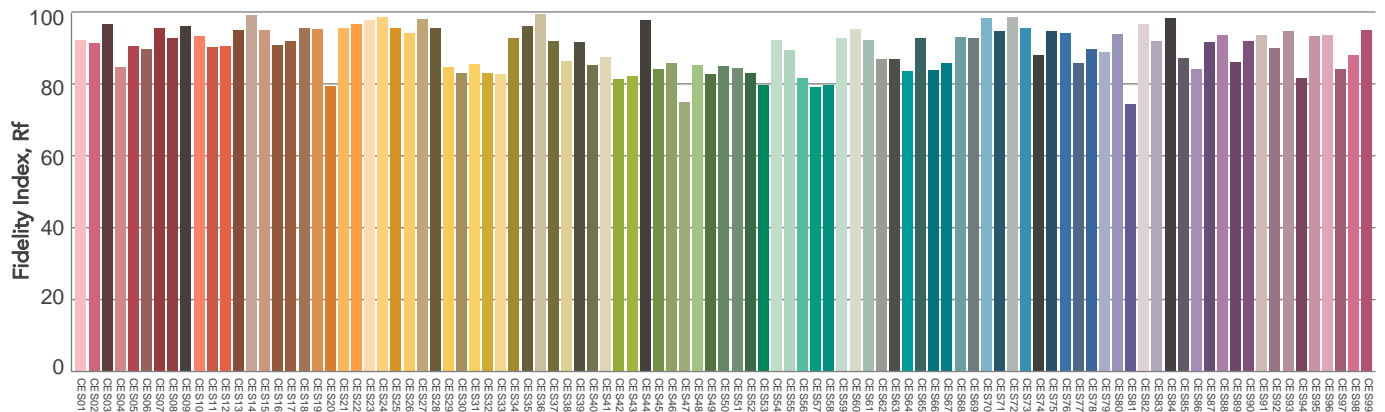
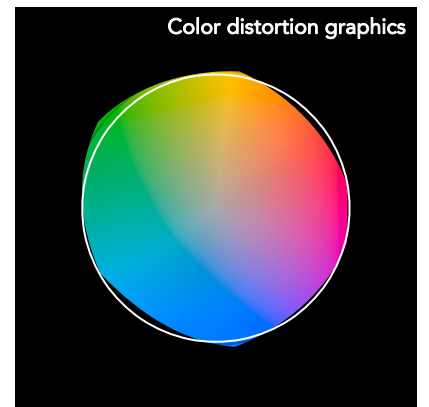
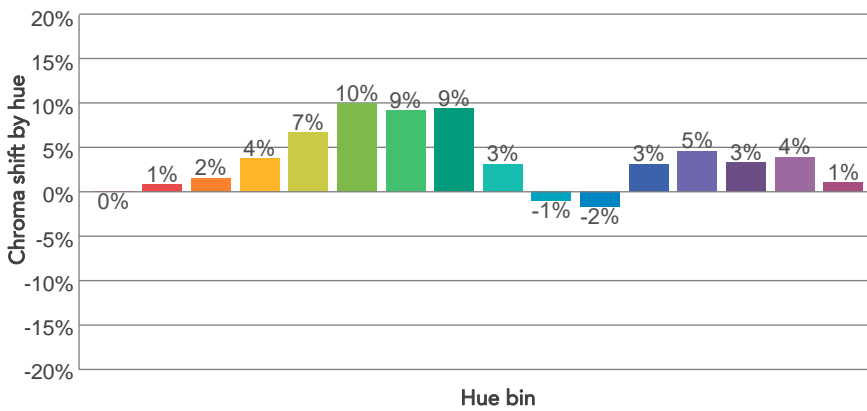
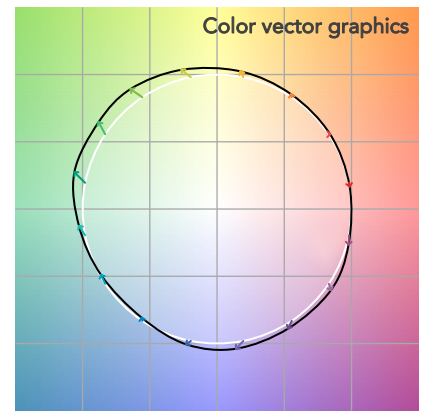
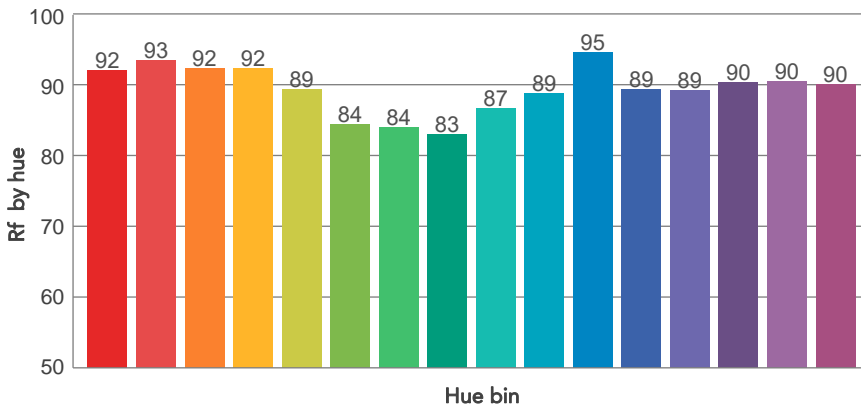
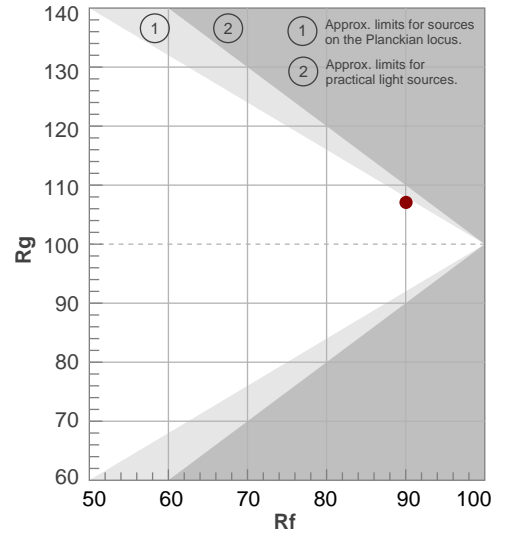
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2808 K	93,0	94,9	90,0	107,1	90,0	75	0,451	0,408	-0,0001

TM30 DETAILS

Rf 90,0
Fidelity index Rf

Rg 107,1
Gammut index

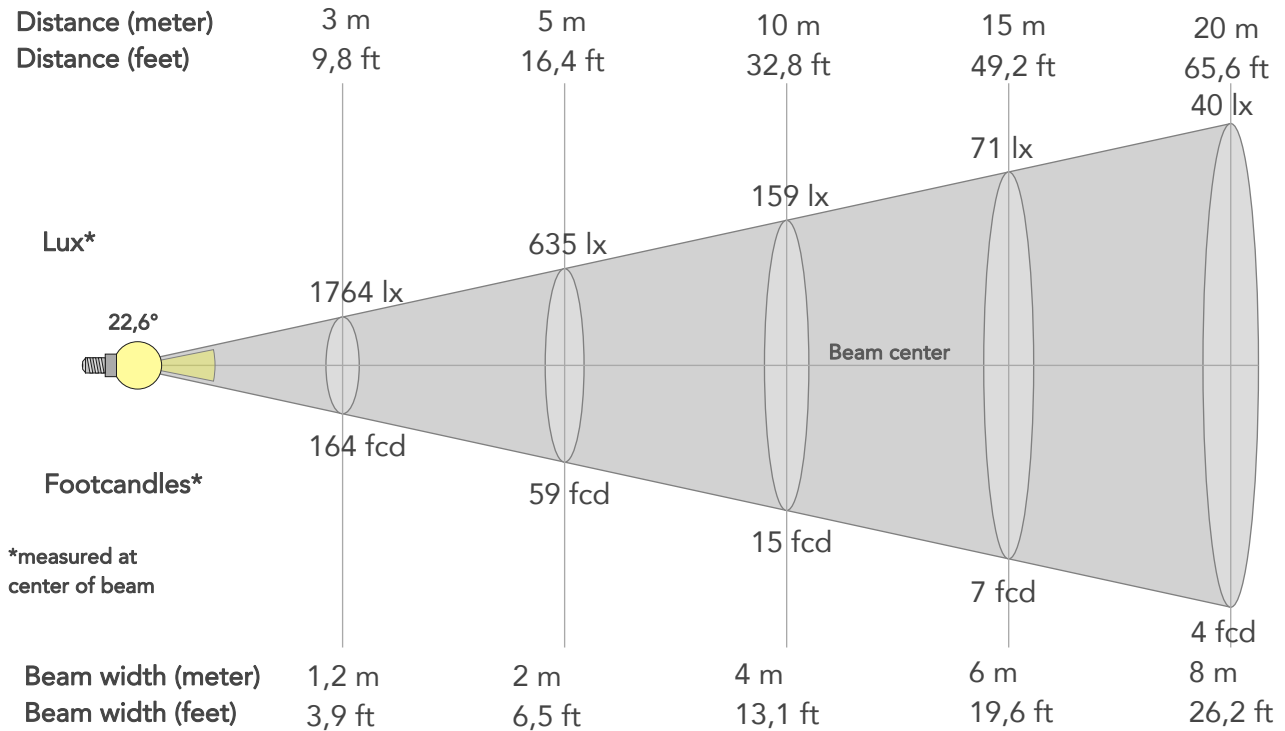
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	0%	-3%
2	93	1%	-1%
3	92	2%	2%
4	92	4%	3%
5	89	7%	6%
6	84	10%	4%
7	84	9%	-5%
8	83	9%	-6%
9	87	3%	-8%
10	89	-1%	-7%
11	95	-2%	-2%
12	89	3%	-3%
13	89	5%	-6%
14	90	3%	-5%
15	90	4%	-3%
16	90	1%	-7%



BEAM DETAILS



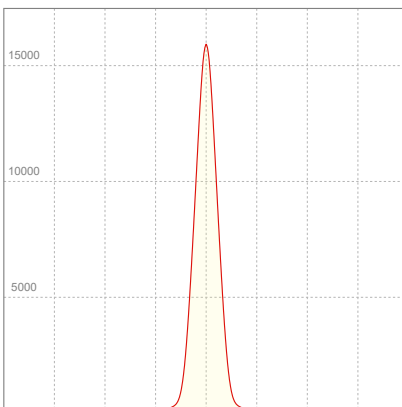
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,6°	40,8°	53,5°	98,2%	95,0%



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	15880lx	3970lx	1764lx	992lx	635lx	282lx	159lx	71lx	40lx	25lx	18lx	10lx	6lx
Footcand.	1475fcd	369fcd	164fcd	92fcd	59fcd	26fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	6m	8m	10m	12m	16m	19,9m
Beam wid.	1,3ft	2,6ft	3,9ft	5,2ft	6,5ft	9,8ft	13,1ft	19,6ft	26,2ft	32,7ft	39,3ft	52,3ft	65,4ft

LINEAR DISTRIBUTION DIAGRAM

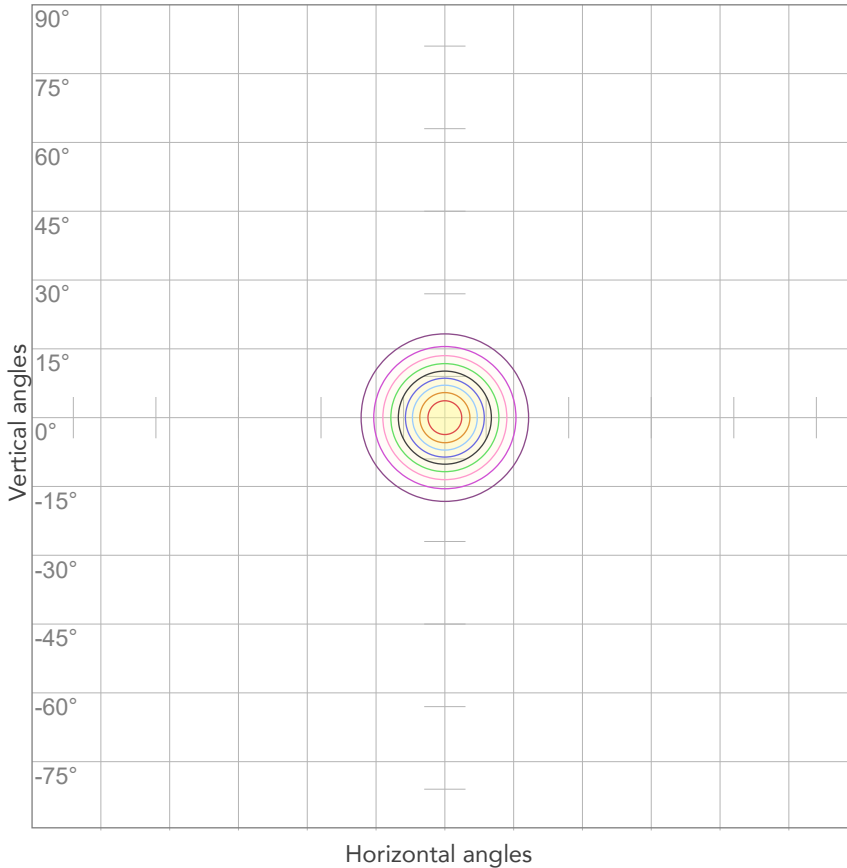


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,281A	59,2W	0,93	52lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



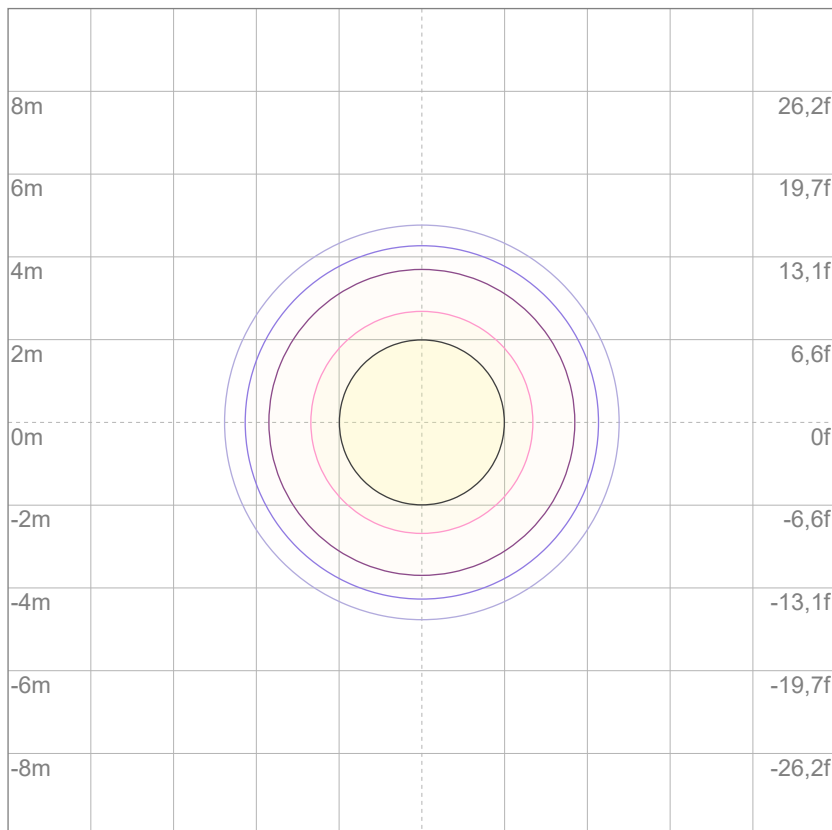
10%	1588 cd
20%	3176 cd
30%	4764 cd
40%	6352 cd
50%	7940 cd
60%	9528 cd
70%	11116 cd
80%	12704 cd

Conditions:

Number of c-planes: 2

Candela at center: 15880 cd

ISO LUX DIAGRAM



3%	4,76 lx
5%	7,94 lx
10%	15,9 lx
30%	47,6 lx
50%	79,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 159 lx

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



Total lumen output:

2990 lm

Peak candela output:

5197 cd

Light quality:

CRI: 93,1

Color temperature:

2832 K

PRODUCT NAME:

ECLPENDANTS FC

MEASURAMENT CONDITIONS:

Beam angle:

40°

Target:

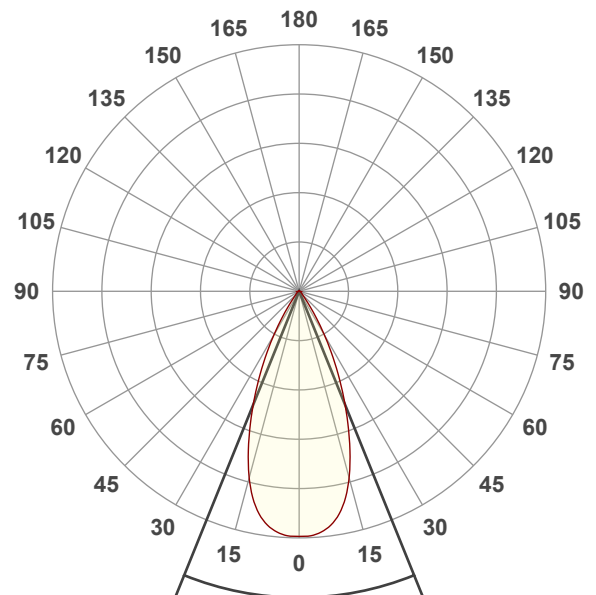
2800K

Operator:

Salvatore Giglio

Date and time:

06/02/2024 11:22:01

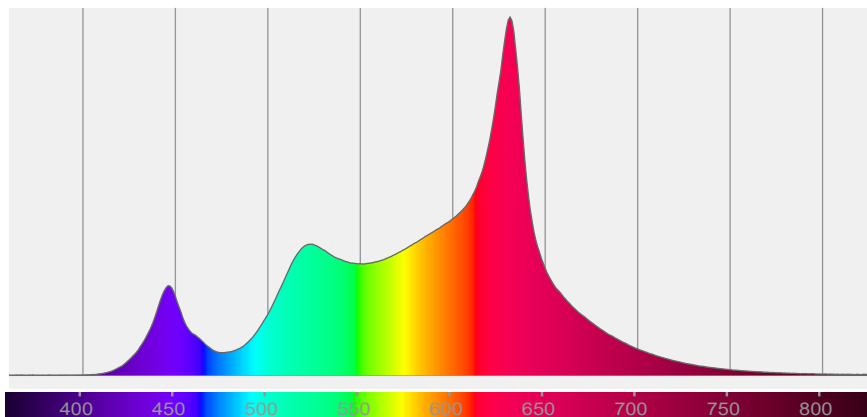


Beam angle 50%: 44,1°

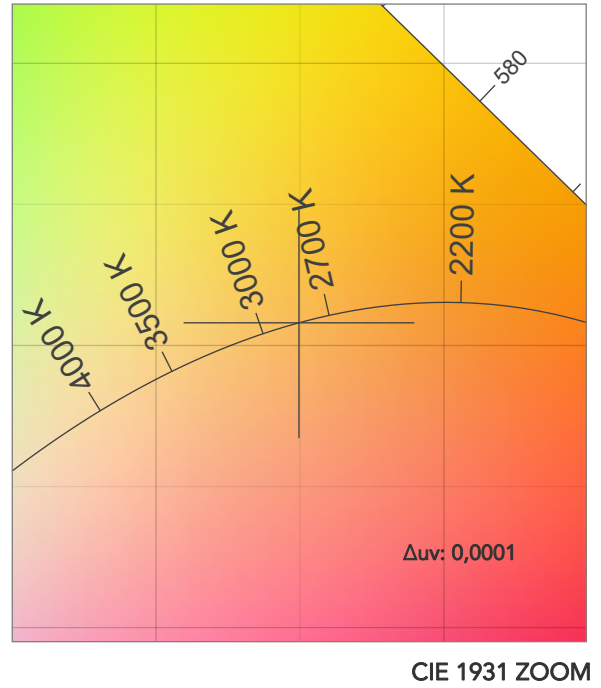
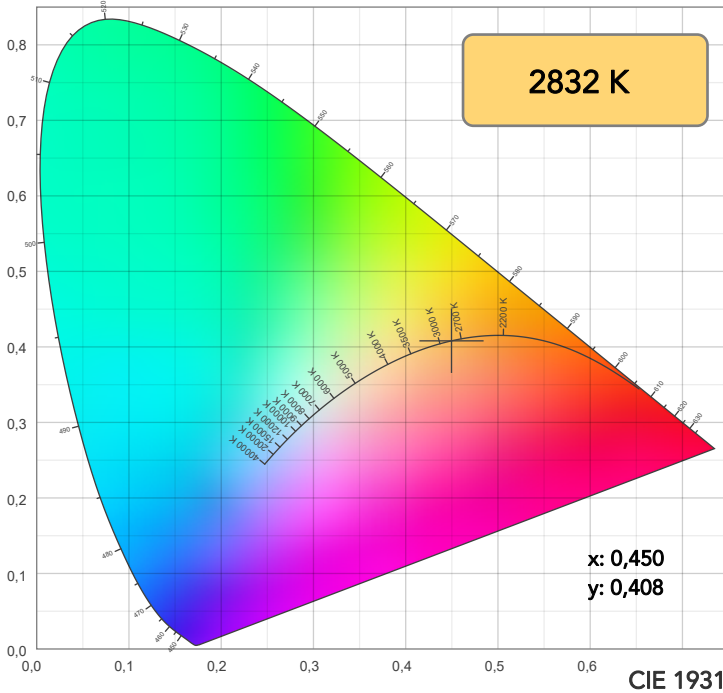
Field angle 10%: 68,7°

Cut off angle 2.5%: 84,9°

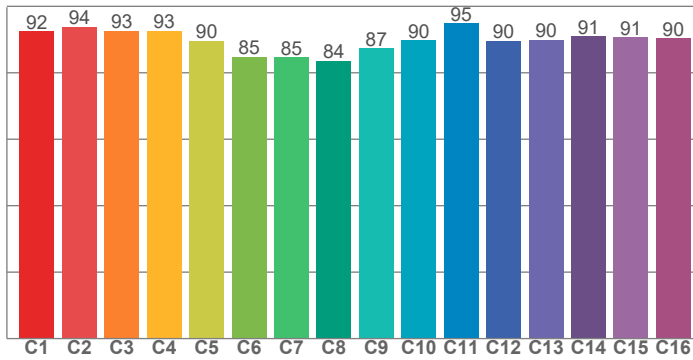
Spectra



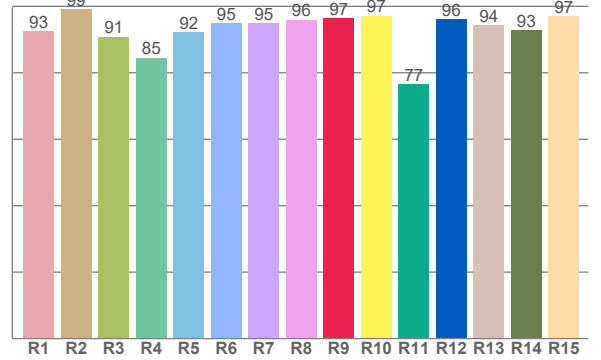
COLOR DETAILS



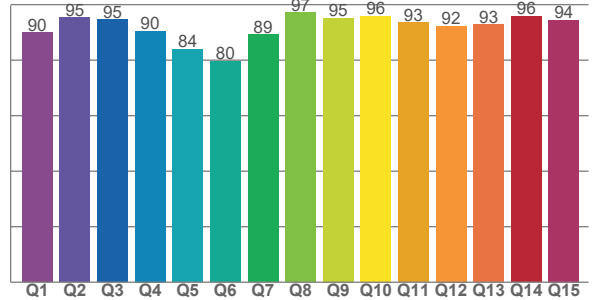
TM30: 90,5



CRI: 93,1 (R1-R8)



CQS: 90,4



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
92,6	99,1	90,8	84,5	92,3	94,9	95,0	96,0	96,5	97,1	76,6	96,2	94,4	92,8	97,0

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
92,4	93,8	92,7	92,5	89,6	84,7	84,6	83,6	87,4	89,7	94,9	89,7	89,9	90,9	90,7	90,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,9	95,3	94,6	90,5	83,9	79,6	89,2	97,1	95,2	95,9	93,5	92,3	92,8	95,8	94,4

COLOR PARAMETERS

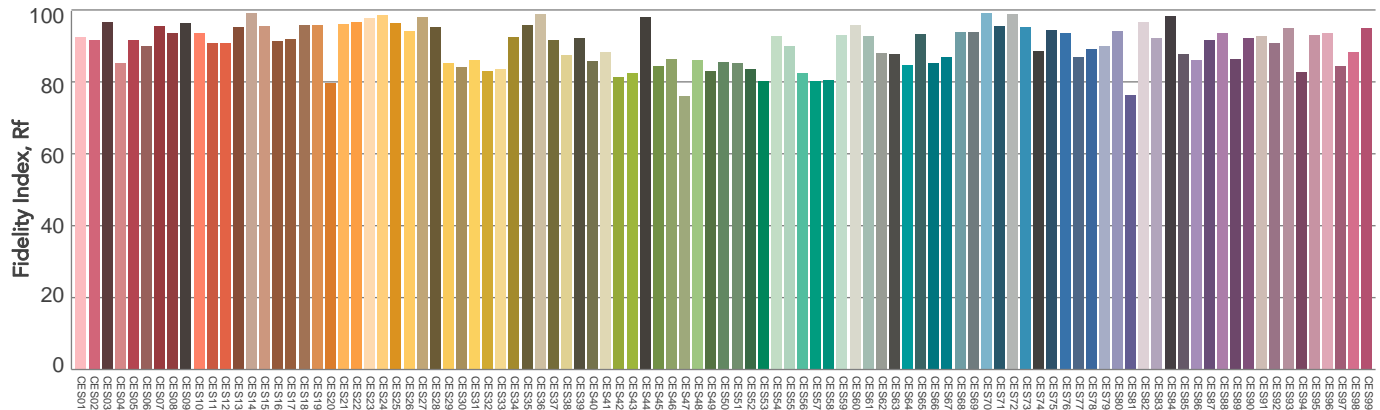
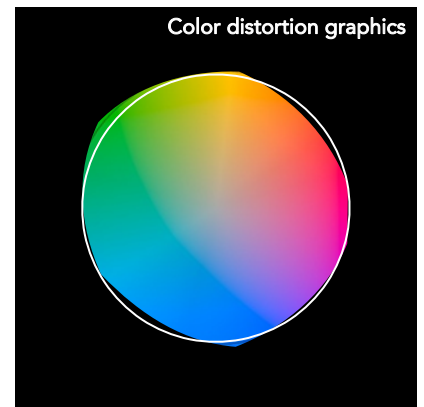
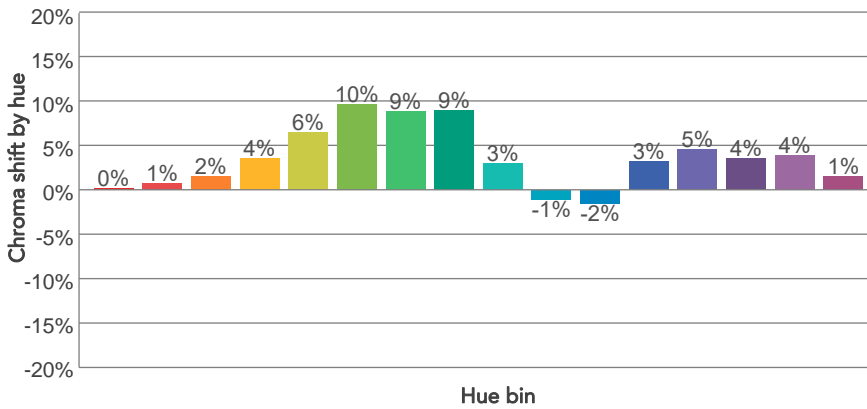
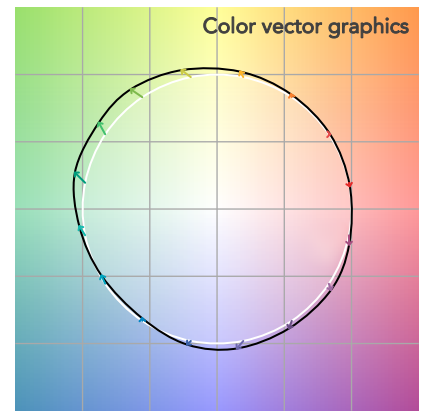
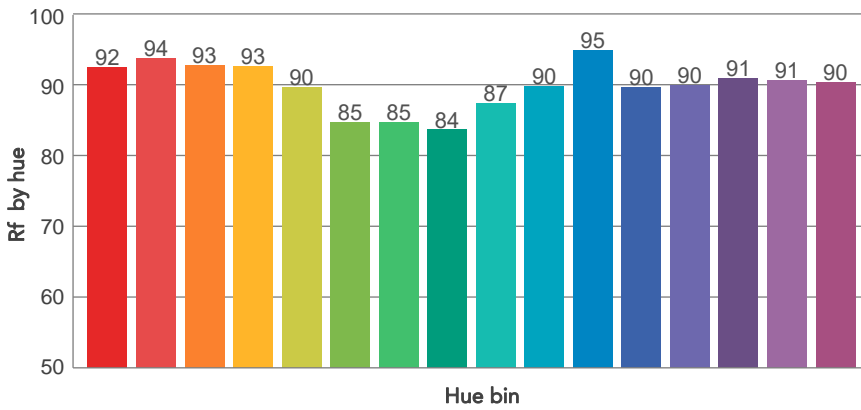
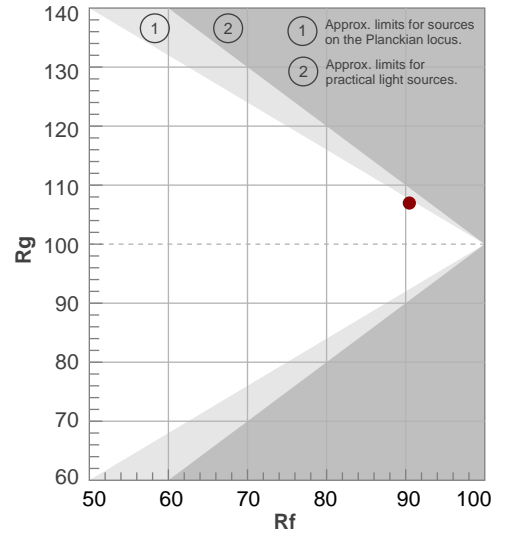
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2832 K	93,1	96,5	90,5	107,0	90,4	77	0,450	0,408	0,0001

TM30 DETAILS

Rf 90,5
Fidelity index Rf

Rg 107,0
Gammut index

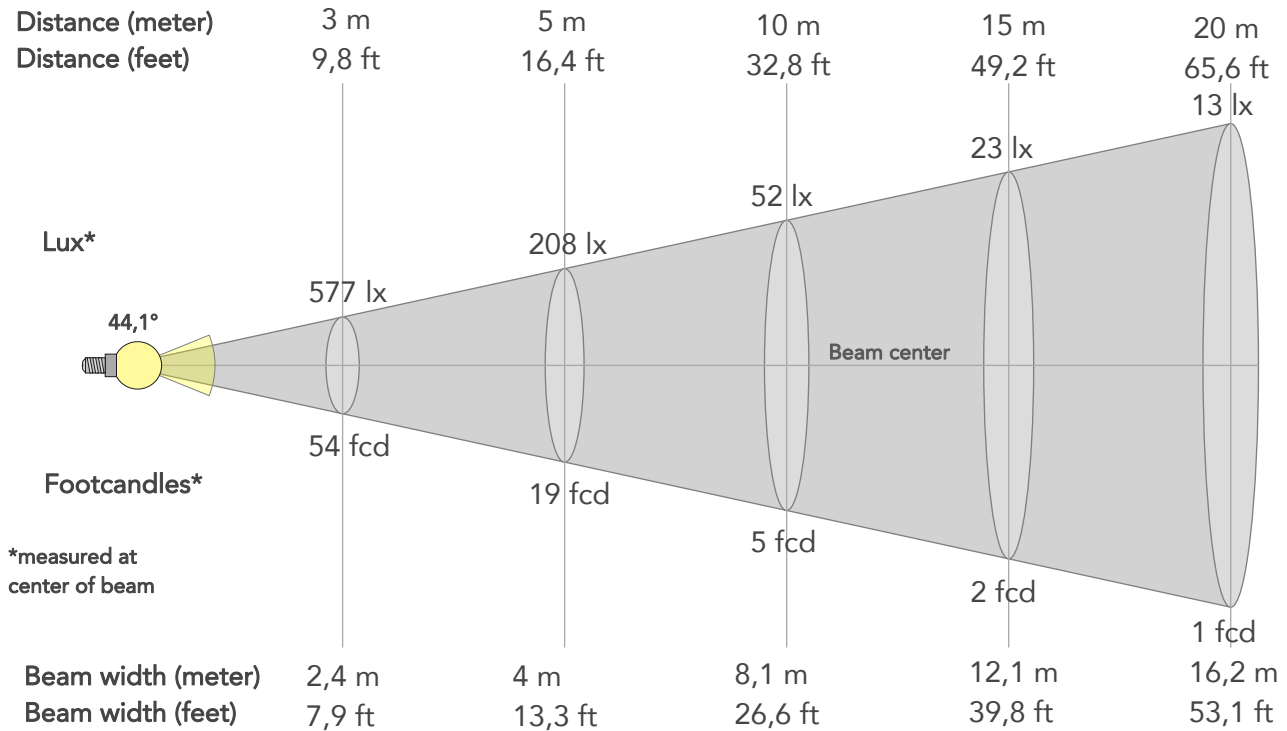
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	0%	-3%
2	94	1%	-1%
3	93	2%	2%
4	93	4%	3%
5	90	6%	6%
6	85	10%	4%
7	85	9%	-5%
8	84	9%	-6%
9	87	3%	-7%
10	90	-1%	-7%
11	95	-2%	-1%
12	90	3%	-2%
13	90	5%	-6%
14	91	4%	-5%
15	91	4%	-3%
16	90	1%	-7%



BEAM DETAILS



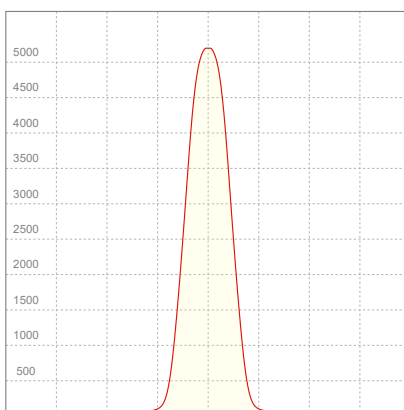
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44,1°	68,7°	84,9°	98,5%	95,5%



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	5197lx	1299lx	577lx	325lx	208lx	92lx	52lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	483fcd	121fcd	54fcd	30fcd	19fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,2m	4m	6,1m	8,1m	12,1m	16,2m	20,2m	24,3m	32,4m	40,5m
Beam wid.	2,7ft	5,3ft	7,9ft	10,6ft	13,3ft	19,9ft	26,6ft	39,8ft	53,1ft	66,4ft	79,7ft	106,2ft	132,8ft

LINEAR DISTRIBUTION DIAGRAM

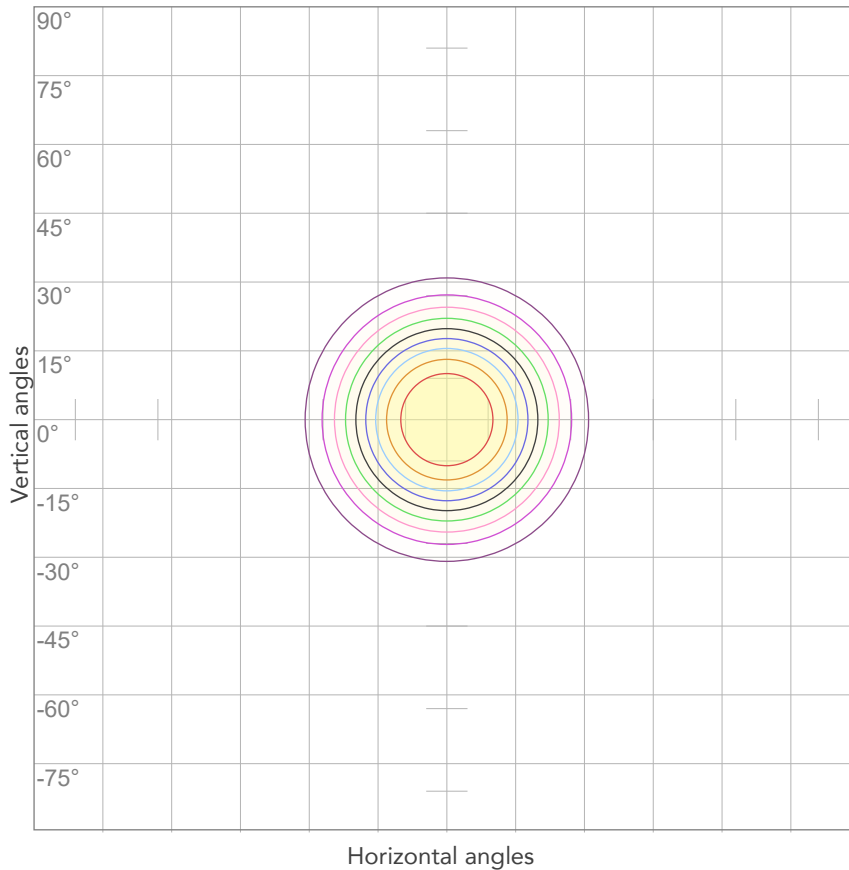


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,276A	58,0W	0,93	52lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



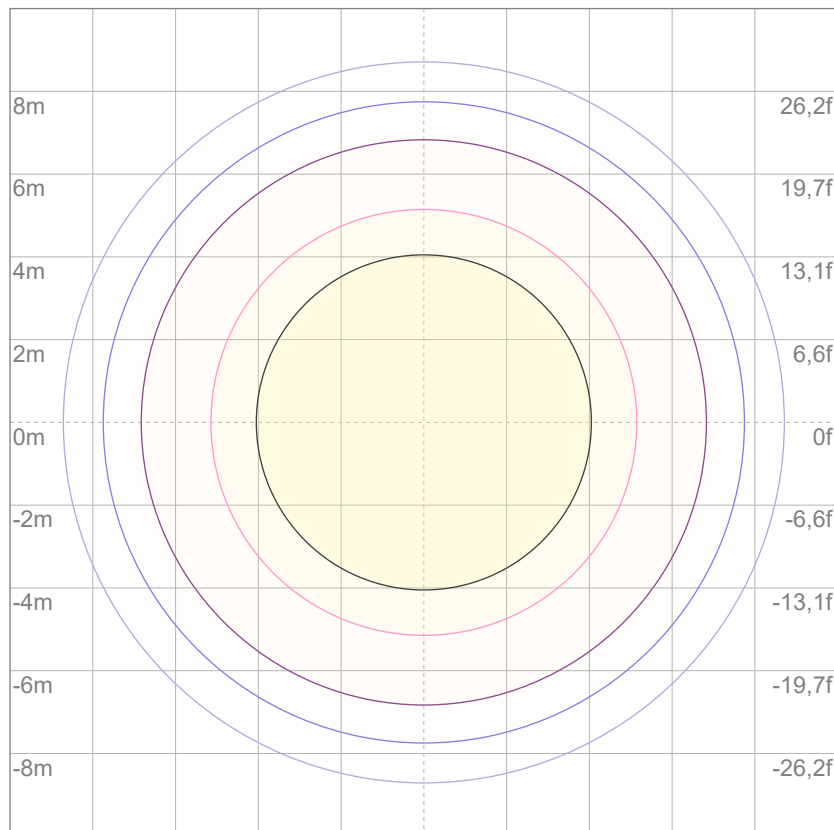
10%	520 cd
20%	1039 cd
30%	1559 cd
40%	2079 cd
50%	2599 cd
60%	3118 cd
70%	3638 cd
80%	4158 cd

Conditions:

Number of c-planes: 2

Candela at center: 5197 cd

ISO LUX DIAGRAM



3%	1,56 lx
5%	2,60 lx
10%	5,20 lx
30%	15,6 lx
50%	26,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 52,0 lx

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



Total lumen output:

2835 lm

Peak candela output:

2531 cd

Light quality:

CRI: 93,0

Color temperature:

2811 K

PRODUCT NAME:
ECLPENDANTS FC

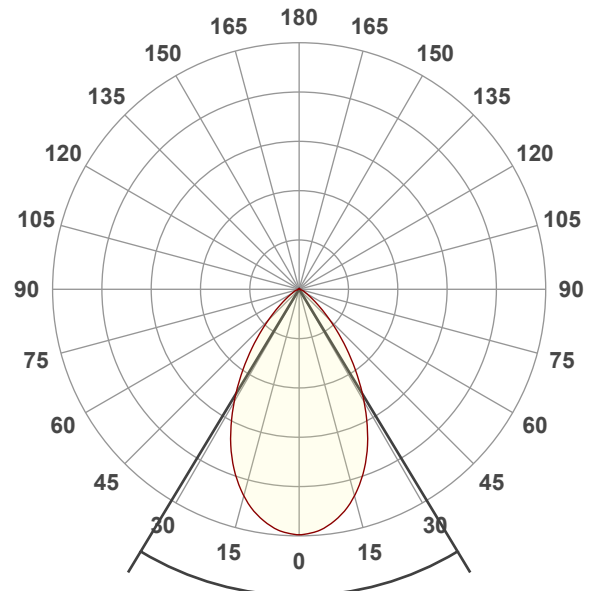
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
2800K

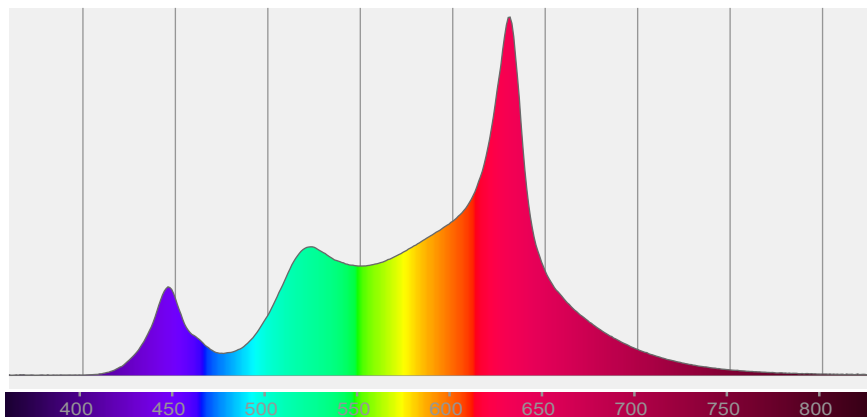
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:05:04

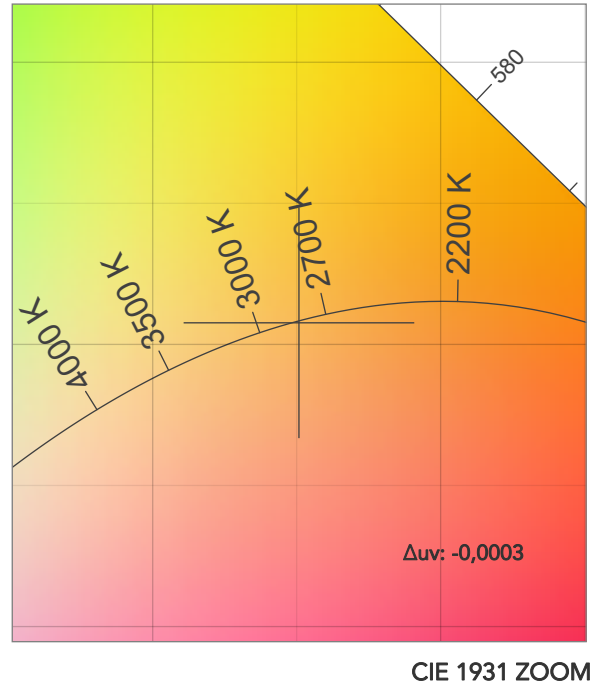
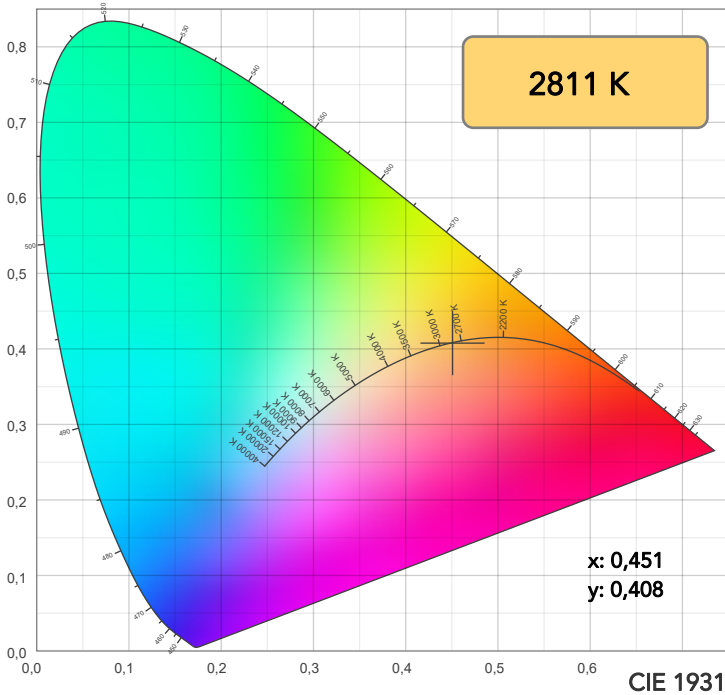


Beam angle 50%: 62,3°
Field angle 10%: 100,9°
Cut off angle 2.5%: 129°

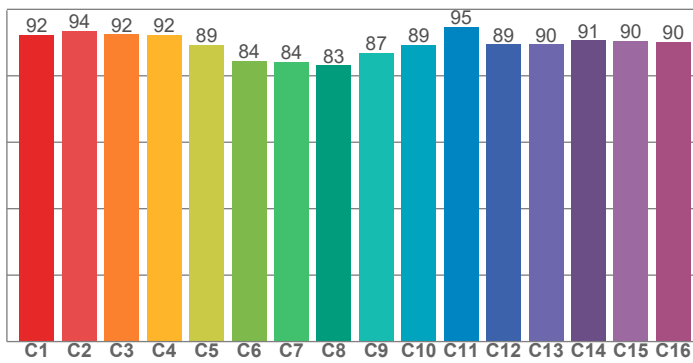
Spectra



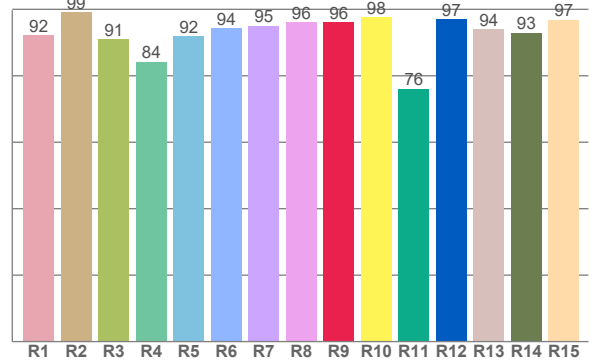
COLOR DETAILS



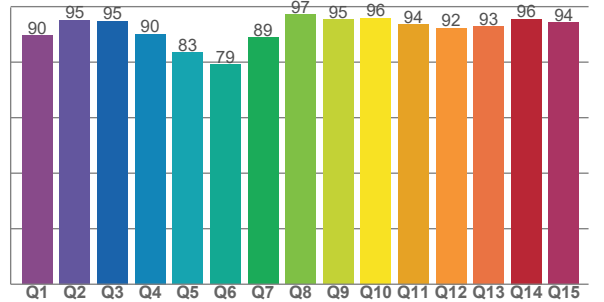
TM30: 90,2



CRI: 93,0 (R1-R8)



CQS: 90,2



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
92,3	99,1	91,1	84,2	91,9	94,3	95,0	96,1	96,2	97,6	76,1	96,9	94,0	93,0	96,8

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
92,3	93,6	92,4	92,3	89,4	84,4	84,1	83,2	87,0	89,2	94,8	89,4	89,5	90,6	90,5	90,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,5	95,2	94,8	90,1	83,5	79,1	88,9	97,2	95,3	95,9	93,6	92,3	92,9	95,5	94,2

COLOR PARAMETERS

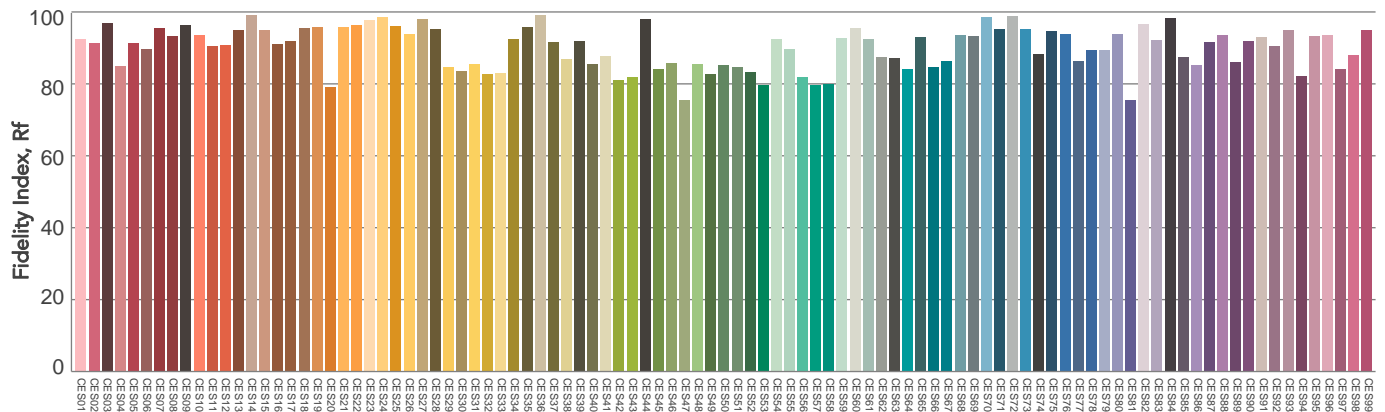
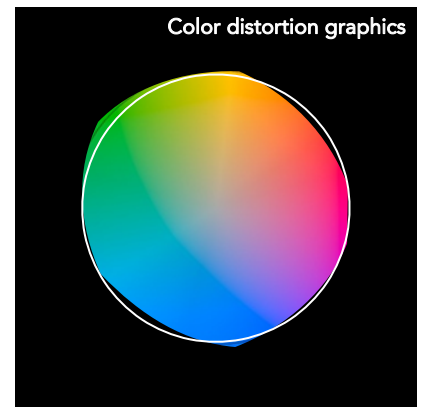
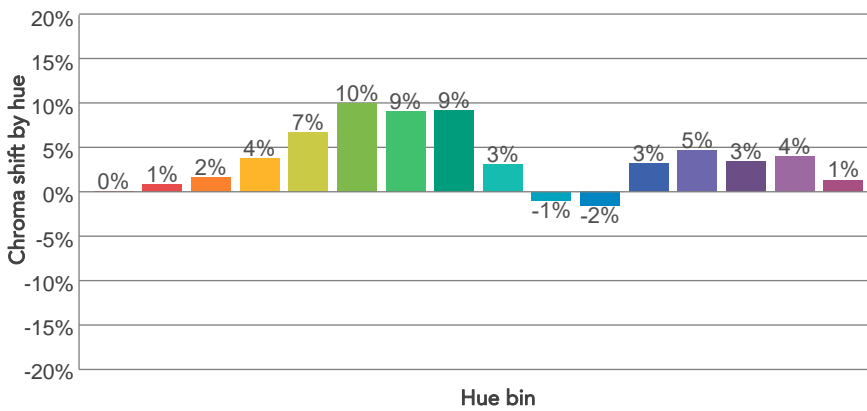
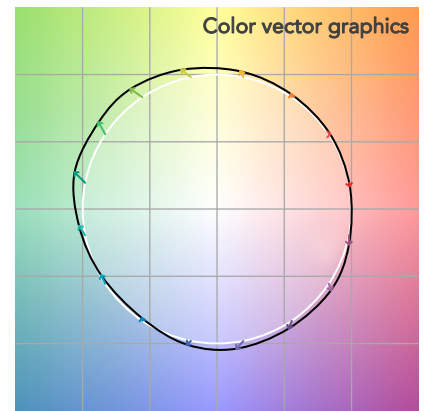
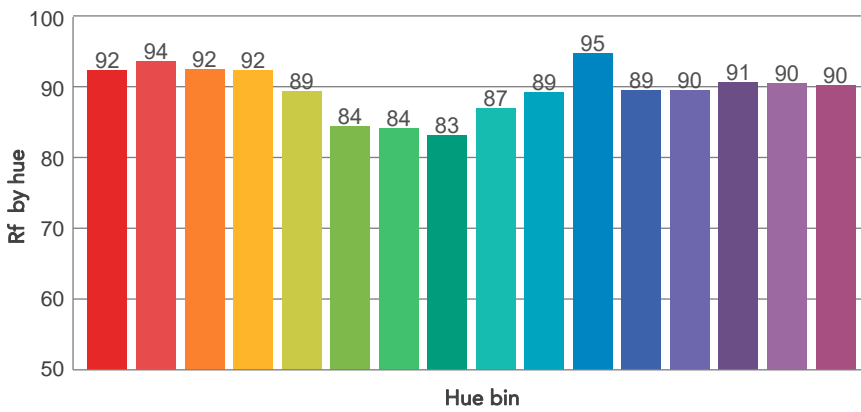
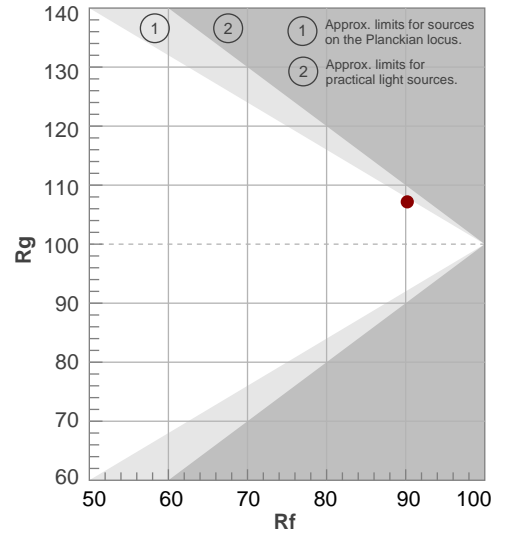
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2811 K	93,0	96,2	90,2	107,2	90,2	76	0,451	0,408	-0,0003

TM30 DETAILS

Rf 90,2
Fidelity index Rf

Rg 107,2
Gammut index

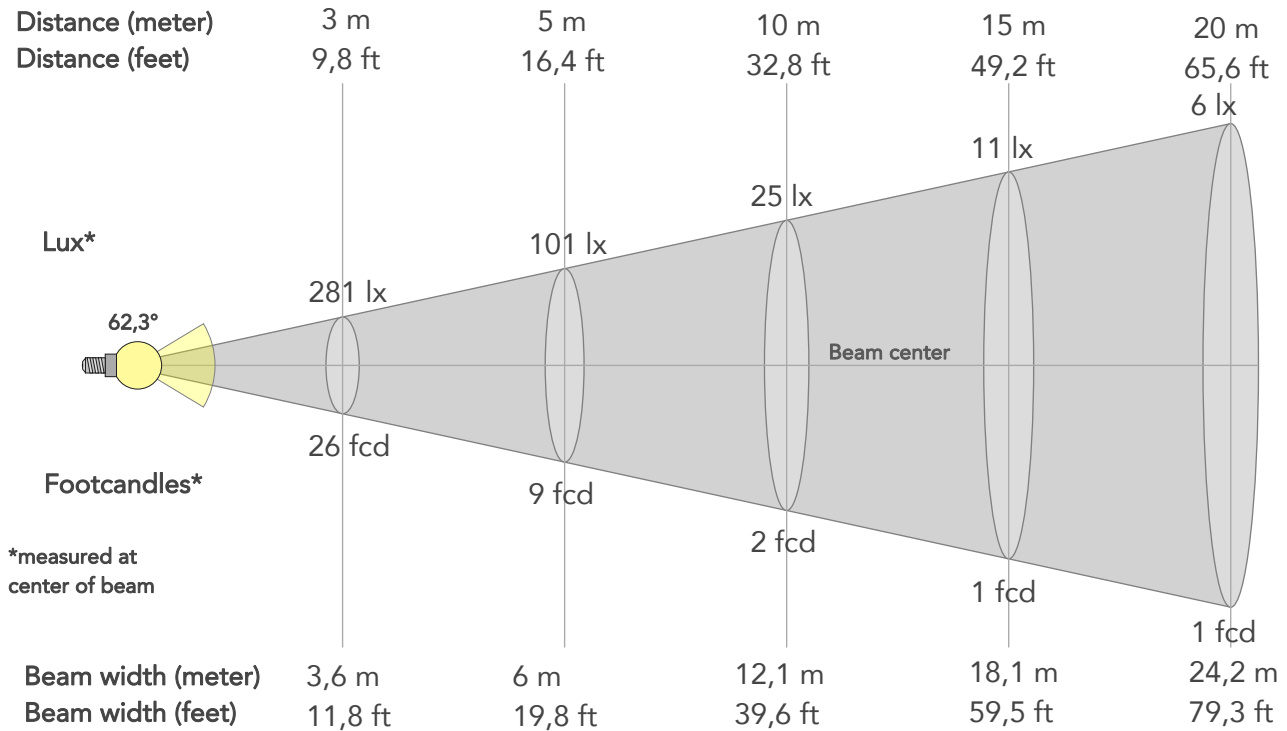
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	0%	-3%
2	94	1%	-1%
3	92	2%	2%
4	92	4%	3%
5	89	7%	6%
6	84	10%	4%
7	84	9%	-5%
8	83	9%	-6%
9	87	3%	-8%
10	89	-1%	-7%
11	95	-2%	-1%
12	89	3%	-3%
13	90	5%	-6%
14	91	3%	-5%
15	90	4%	-3%
16	90	1%	-7%



BEAM DETAILS



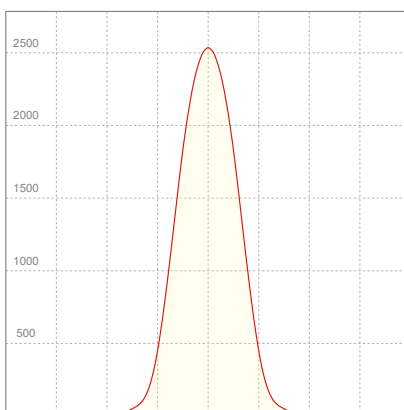
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,3°	100,9°	129°	96,6%	86,6%



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	2531lx	633lx	281lx	158lx	101lx	45lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	235fcd	59fcd	26fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6m	9,1m	12,1m	18,1m	24,2m	30,2m	36,3m	48,3m	60,4m
Beam wid.	4ft	8ft	11,8ft	15,8ft	19,8ft	29,7ft	39,6ft	59,5ft	79,3ft	99,1ft	118,9ft	158,6ft	198,2ft

LINEAR DISTRIBUTION DIAGRAM

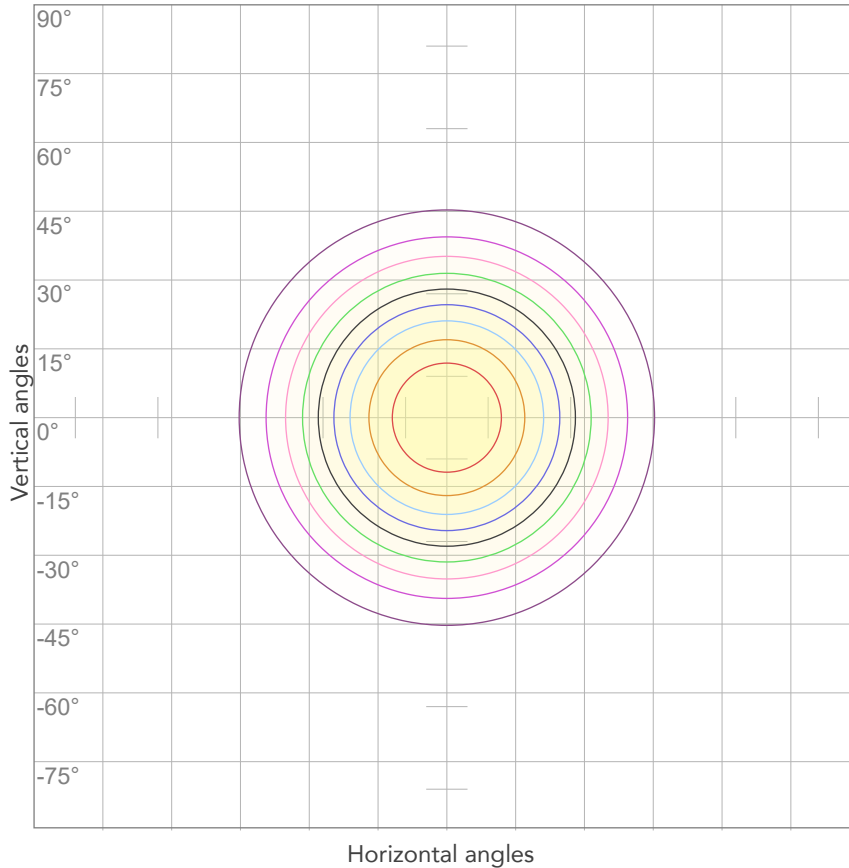


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,277A	58,4W	0,93	49lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



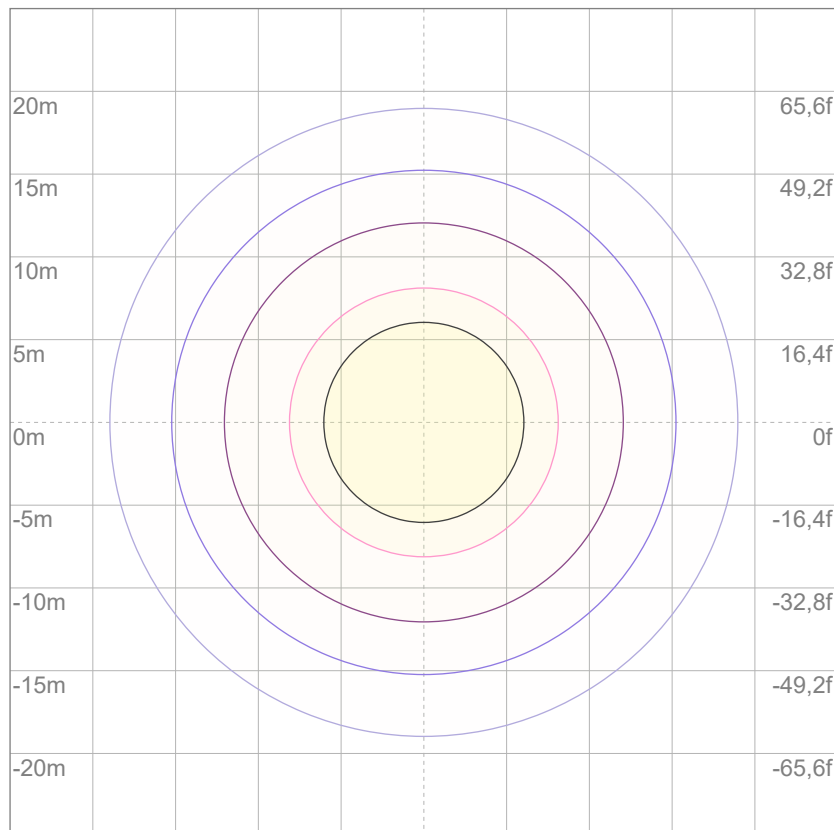
10%	253 cd
20%	506 cd
30%	759 cd
40%	1012 cd
50%	1266 cd
60%	1519 cd
70%	1772 cd
80%	2025 cd

Conditions:

Number of c-planes: 2

Candela at center: 2531 cd

ISO LUX DIAGRAM



3%	0,759 lx
5%	1,27 lx
10%	2,53 lx
30%	7,59 lx
50%	12,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 25,3 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

3029 lm

Peak candela output:

15598 cd

Light quality:

CRI: 93,2

Color temperature:

3220 K

PRODUCT NAME:
ECLPENDANTS FC

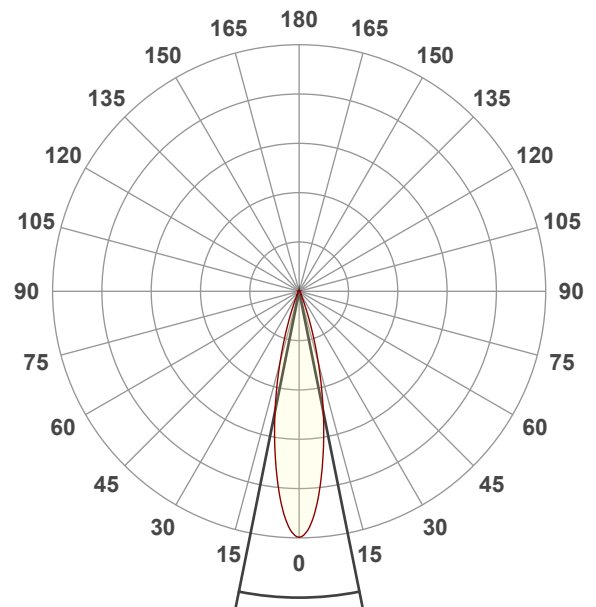
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
3200K

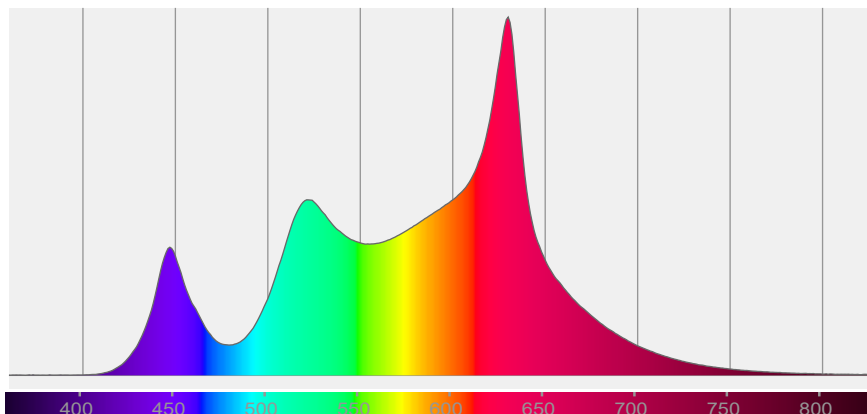
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:16:41

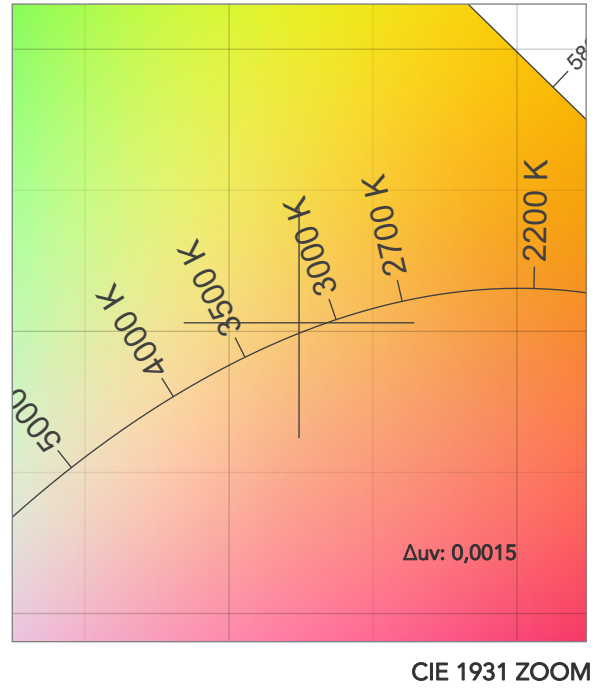
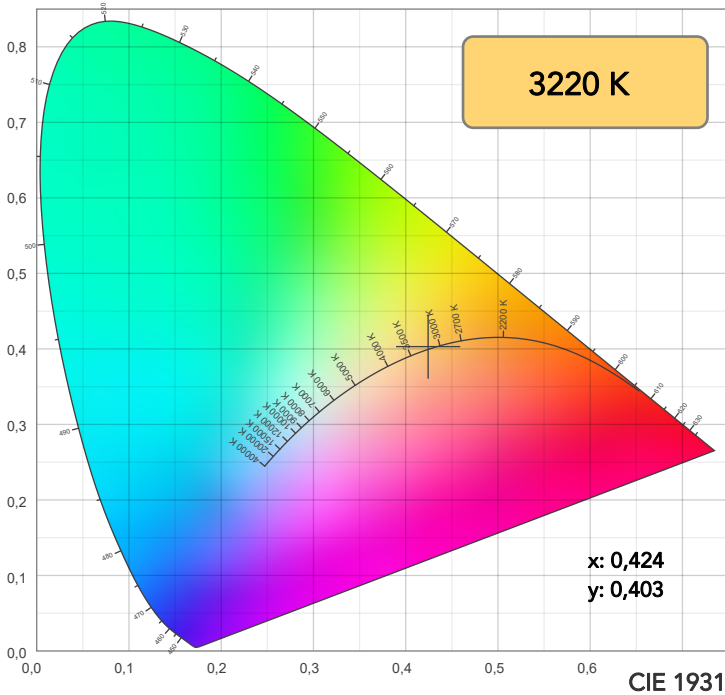


Beam angle 50%: 22,7°
Field angle 10%: 40,8°
Cut off angle 2.5%: 53,6°

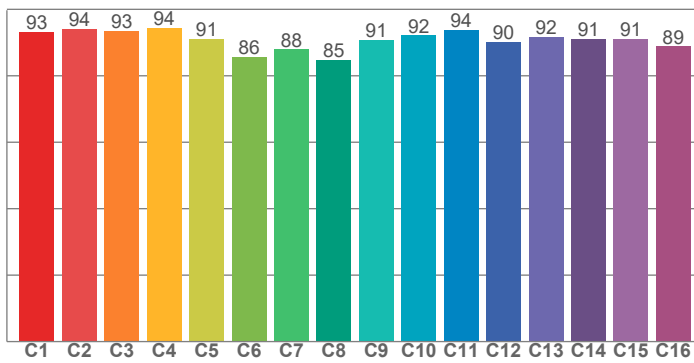
Spectra



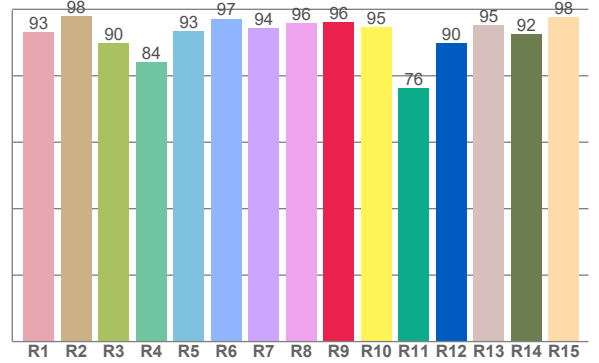
COLOR DETAILS



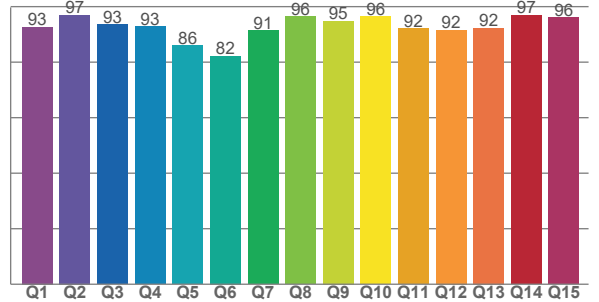
TM30: 91,4



CRI: 93,2 (R1-R8)



CQS: 91,6



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	98,0	89,7	84,1	93,3	97,2	94,2	95,8	96,2	94,5	76,3	89,7	95,2	92,5	97,6

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
93,2	94,2	93,4	94,3	91,1	85,8	87,9	84,8	90,7	92,1	93,8	90,3	91,7	91,2	91,1	88,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	97,0	93,5	92,8	85,9	82,1	91,4	96,4	94,8	96,5	92,1	91,6	92,3	96,9	96,0

COLOR PARAMETERS

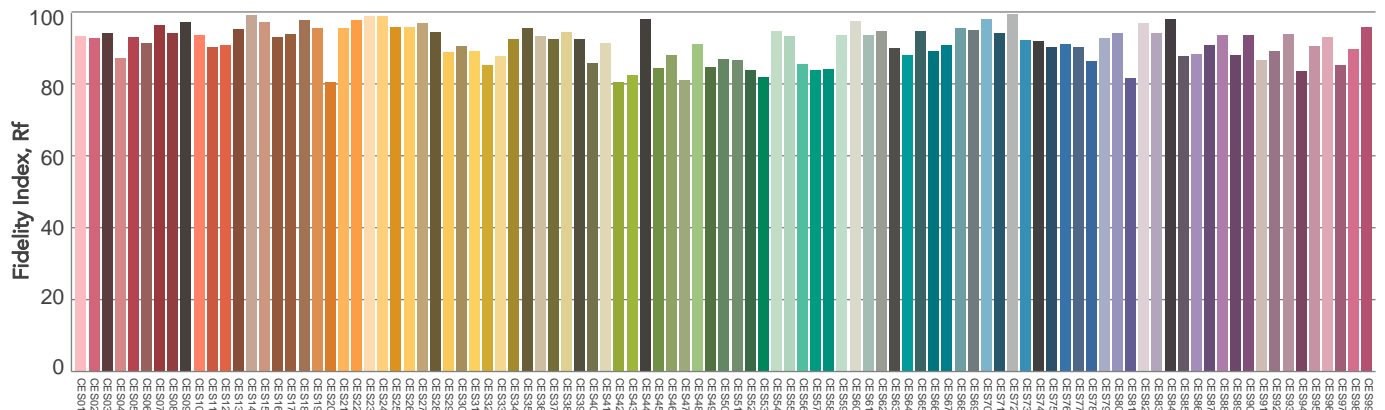
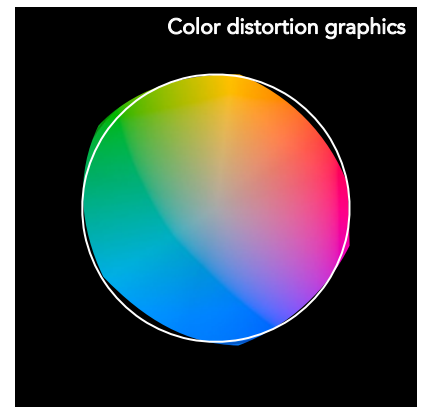
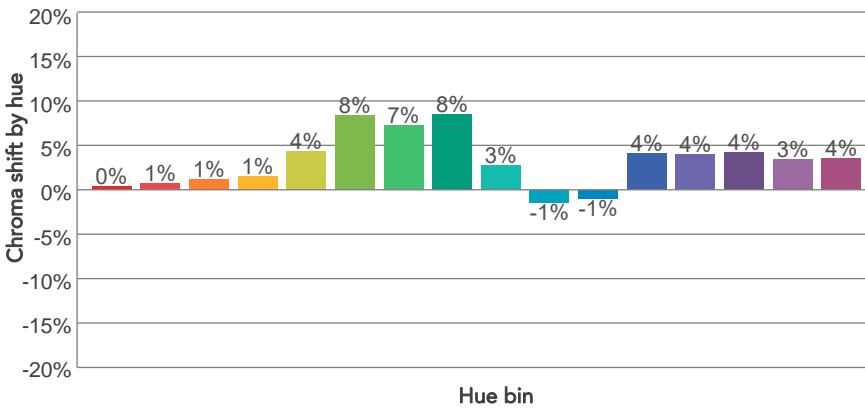
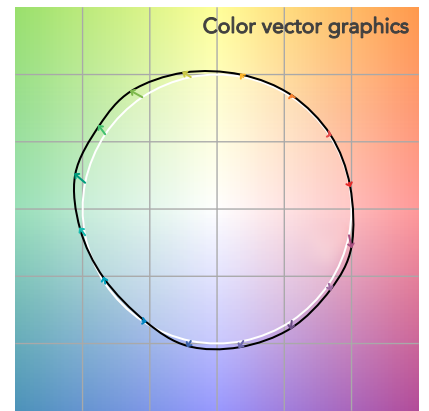
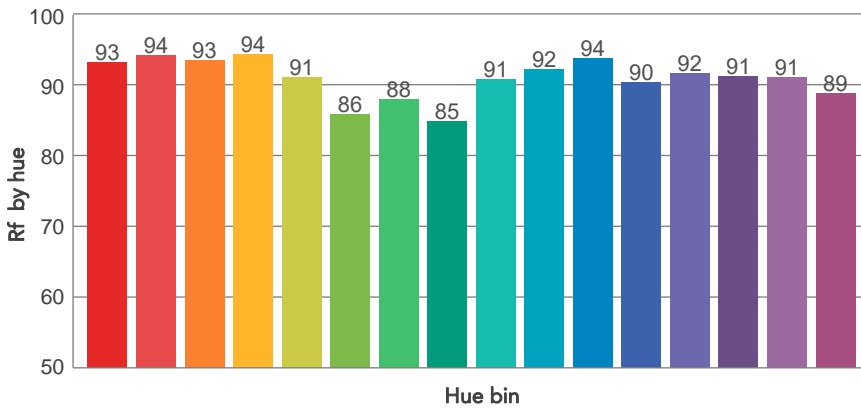
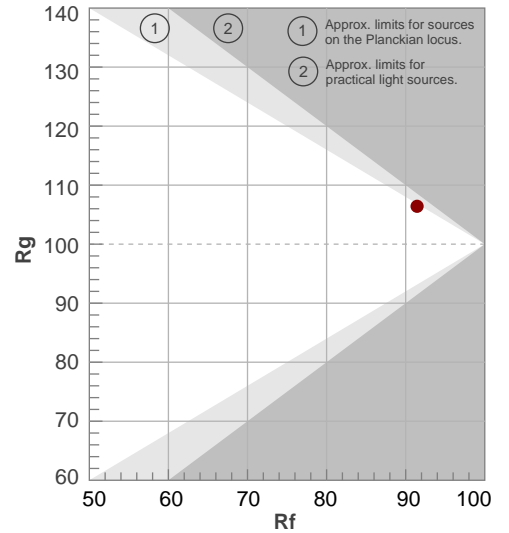
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3220 K	93,2	96,2	91,4	106,4	91,6	80	0,424	0,403	0,0015

TM30 DETAILS

Rf 91,4
Fidelity index Rf

Rg 106,4
Gammut index

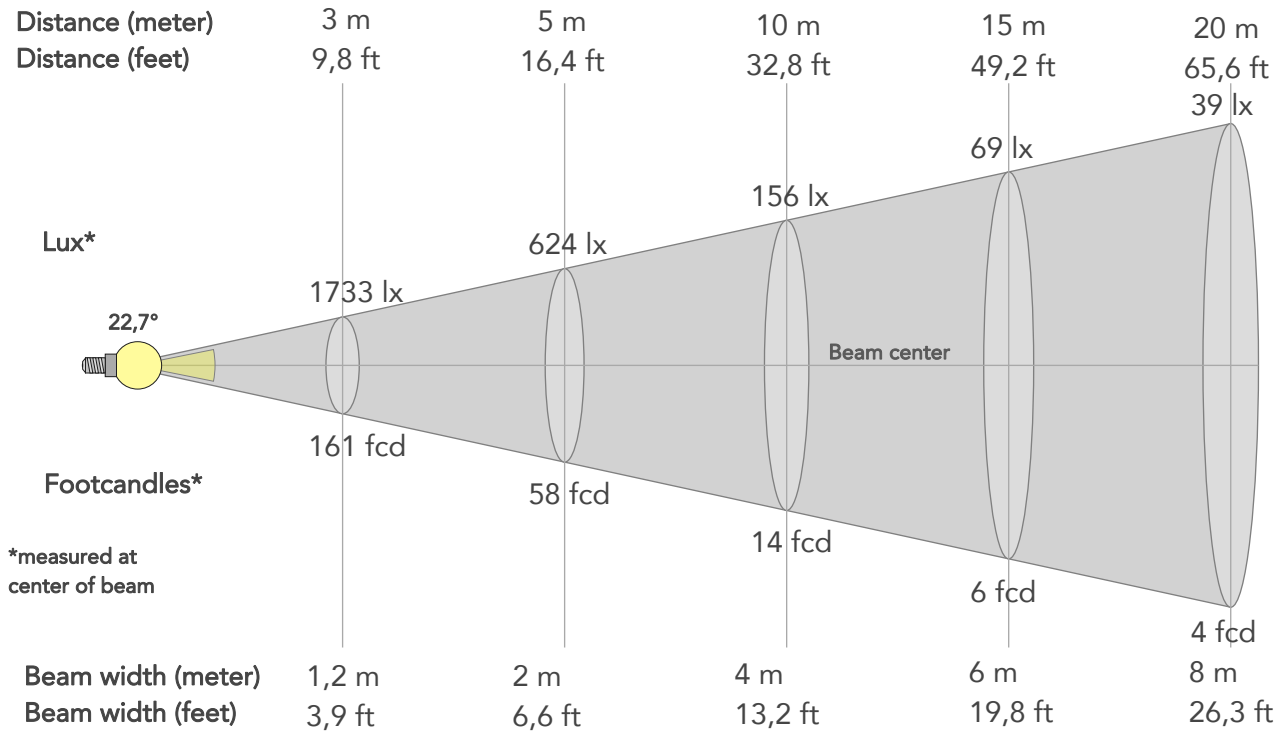
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-2%
2	94	1%	-1%
3	93	1%	1%
4	94	1%	2%
5	91	4%	5%
6	86	8%	4%
7	88	7%	-3%
8	85	8%	-5%
9	91	3%	-6%
10	92	-1%	-4%
11	94	-1%	2%
12	90	4%	-2%
13	92	4%	-4%
14	91	4%	-4%
15	91	3%	-3%
16	89	4%	-8%



BEAM DETAILS



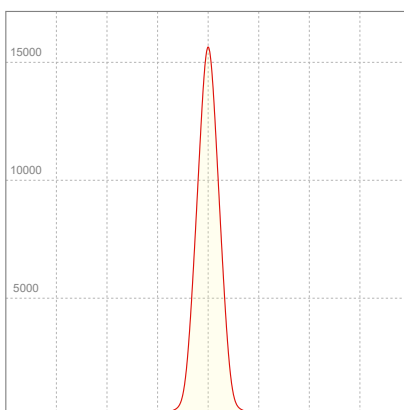
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,7°	40,8°	53,6°	98,2%	95,0%



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	15598lx	3899lx	1733lx	975lx	624lx	277lx	156lx	69lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1449fcd	362fcd	161fcd	91fcd	58fcd	26fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	6m	8m	10m	12m	16,1m	20,1m
Beam wid.	1,3ft	2,6ft	3,9ft	5,3ft	6,6ft	9,9ft	13,2ft	19,8ft	26,3ft	32,9ft	39,5ft	52,7ft	65,8ft

LINEAR DISTRIBUTION DIAGRAM

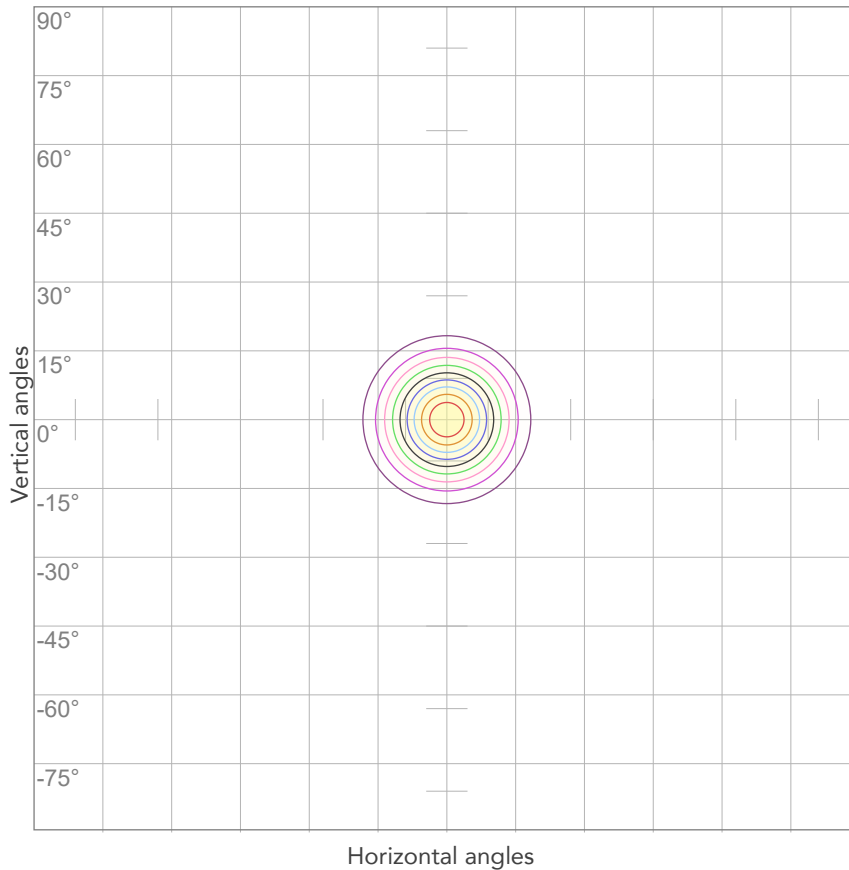


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,282A	59,4W	0,93	51lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



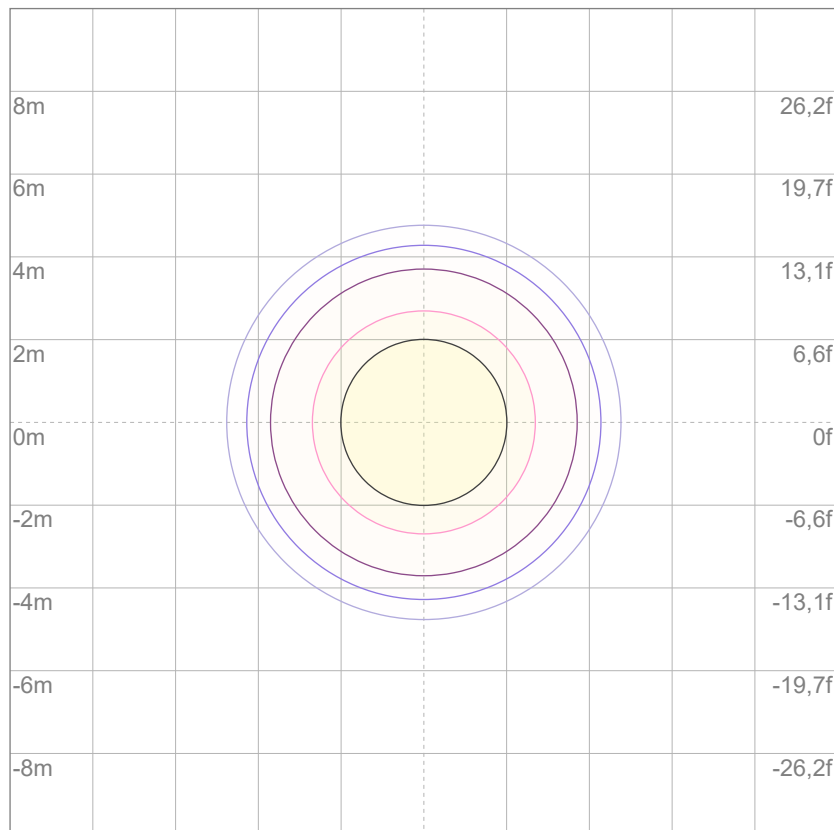
10%	1560 cd
20%	3120 cd
30%	4679 cd
40%	6239 cd
50%	7799 cd
60%	9359 cd
70%	10919 cd
80%	12478 cd

Conditions:

Number of c-planes: 2

Candela at center: 15598 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,68 lx
5%	7,80 lx
10%	15,6 lx
30%	46,8 lx
50%	78,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 156 lx

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



Total lumen output:

2955 lm

Peak candela output:

5113 cd

Light quality:

CRI: 93,3

Color temperature:

3245 K

PRODUCT NAME:
ECLPENDANTS FC

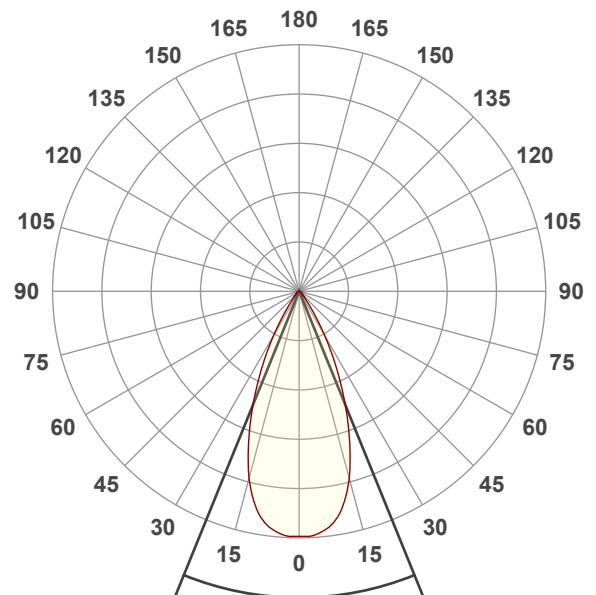
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
3200K

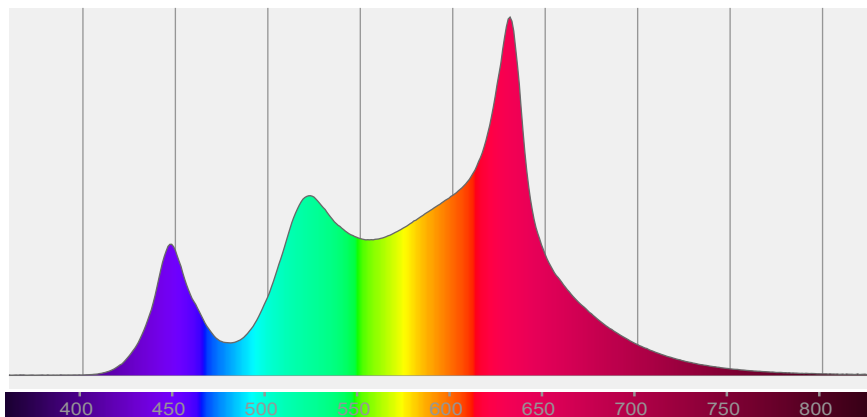
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:23:30

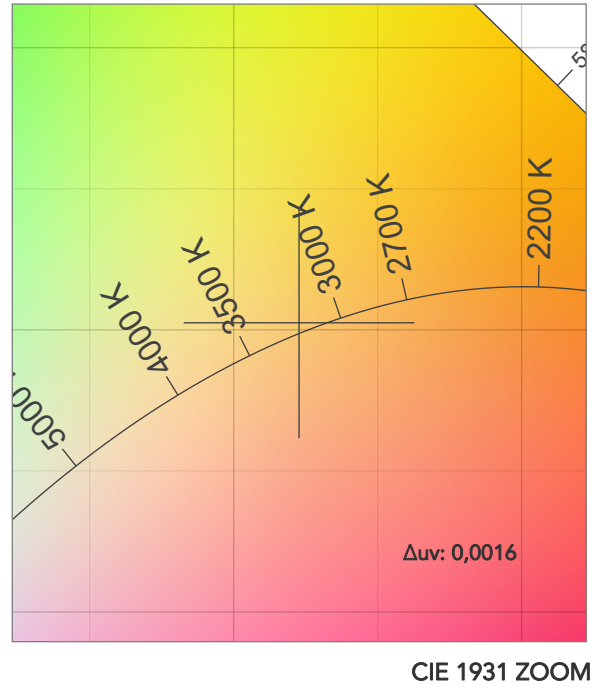
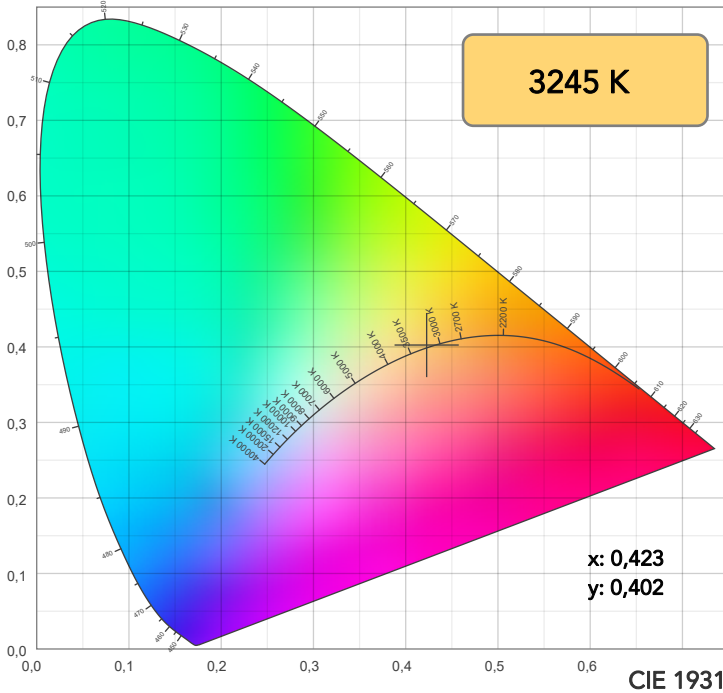


Beam angle 50%: 44,2°
Field angle 10%: 68,8°
Cut off angle 2.5%: 85,1°

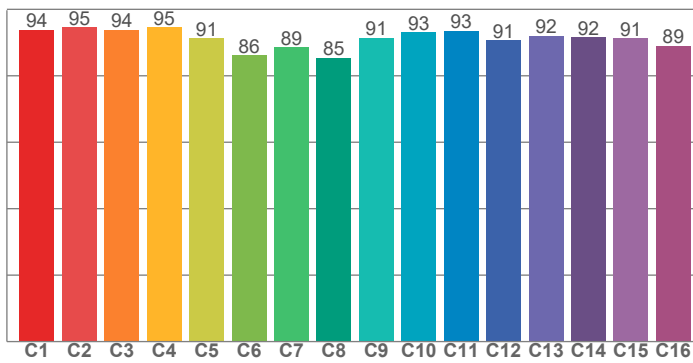
Spectra



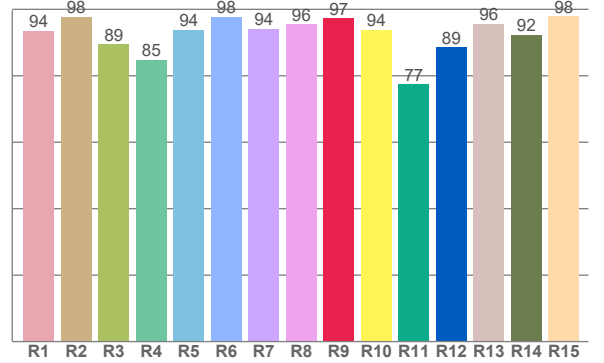
COLOR DETAILS



TM30: 91,8



CRI: 93,3 (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
93,5	97,7	89,4	84,8	93,9	97,7	94,2	95,5	97,2	93,9	77,4	88,5	95,7	92,4	97,8

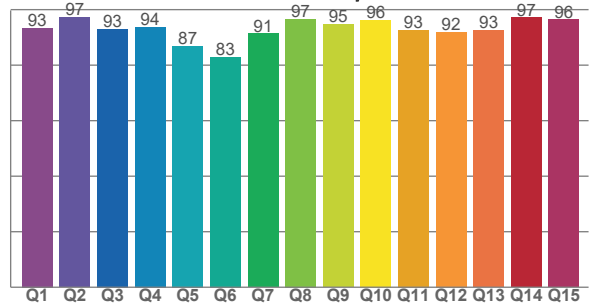
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,8	94,5	93,8	94,5	91,3	86,2	88,6	85,5	91,4	93,1	93,5	90,7	92,0	91,6	91,3	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	97,2	93,0	93,7	86,9	82,9	91,4	96,6	94,7	96,3	92,6	92,0	92,5	97,1	96,5

CQS: 92,0



COLOR PARAMETERS

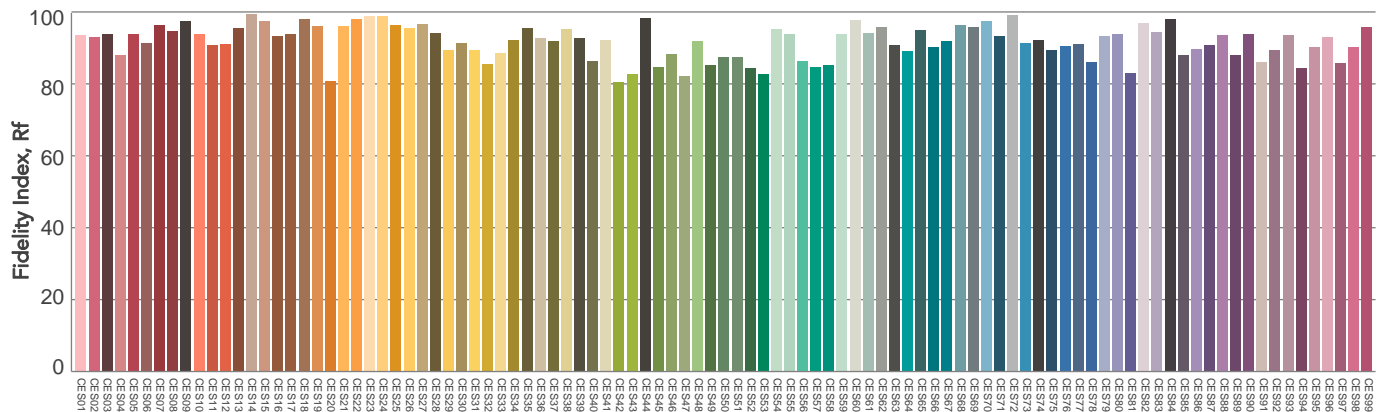
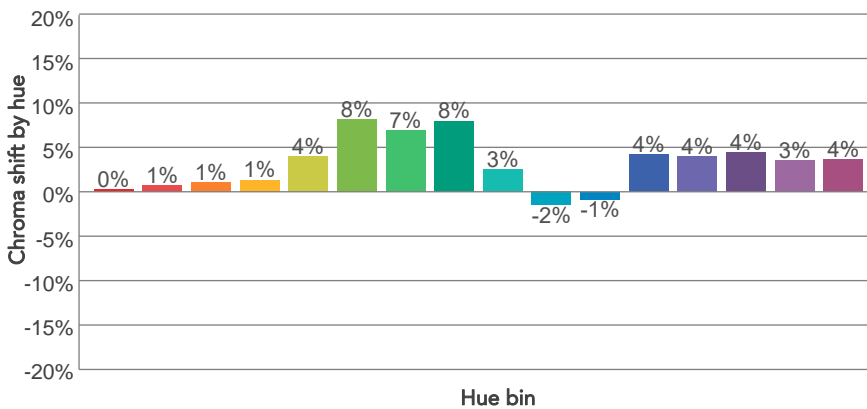
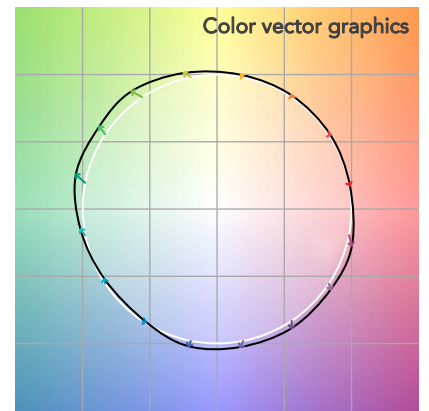
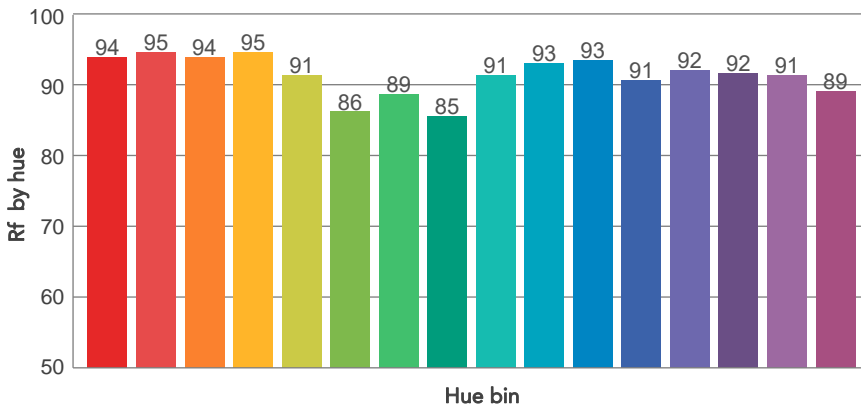
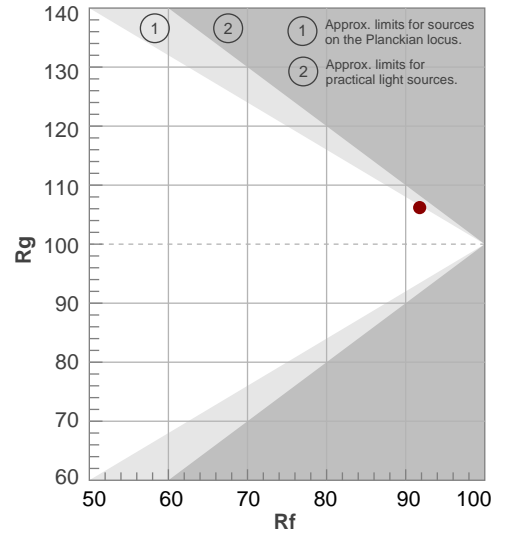
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3245 K	93,3	97,2	91,8	106,2	92,0	82	0,423	0,402	0,0016

TM30 DETAILS

Rf 91,8
Fidelity index Rf

Rg 106,2
Gammut index

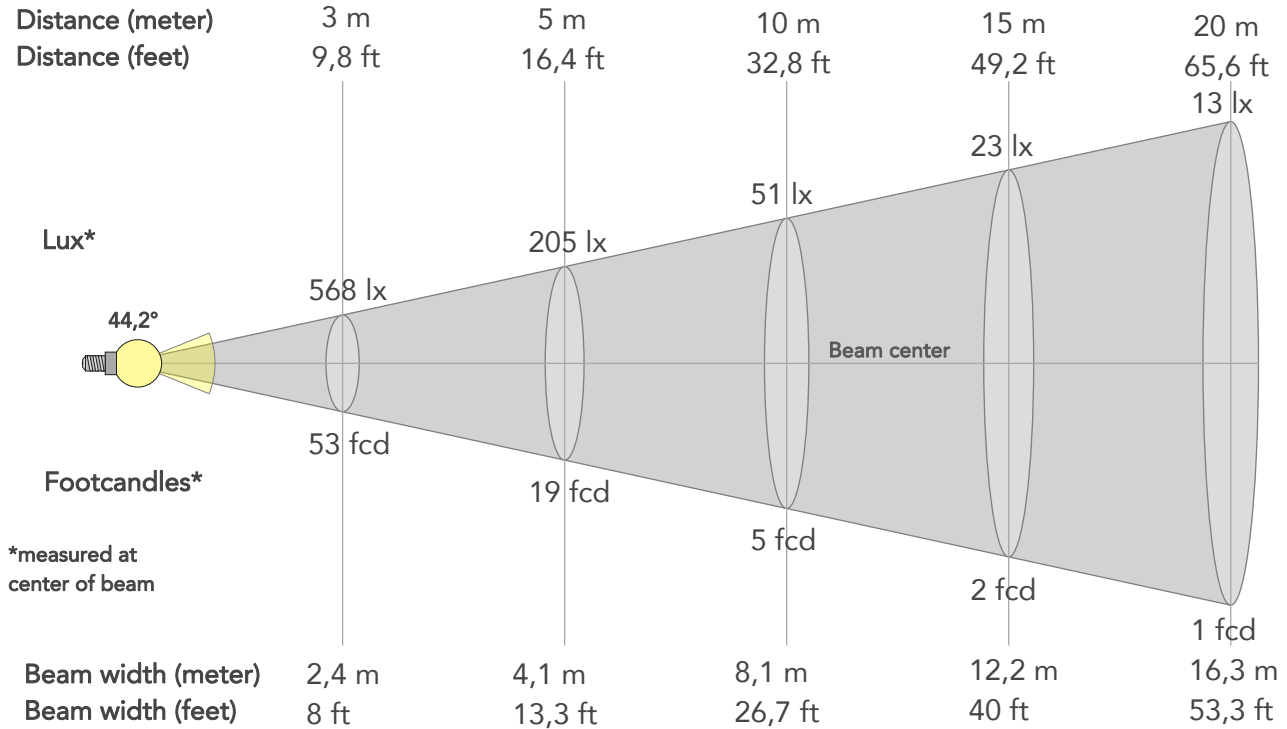
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	95	1%	-1%
3	94	1%	1%
4	95	1%	2%
5	91	4%	5%
6	86	8%	4%
7	89	7%	-2%
8	85	8%	-5%
9	91	3%	-5%
10	93	-2%	-3%
11	93	-1%	3%
12	91	4%	-1%
13	92	4%	-3%
14	92	4%	-3%
15	91	3%	-3%
16	89	4%	-7%



BEAM DETAILS



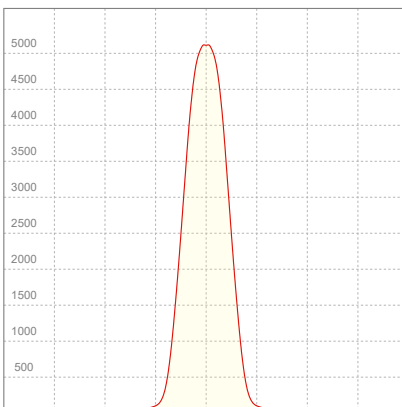
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44,2°	68,8°	85,1°	98,6%	95,5%



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	5113lx	1278lx	568lx	320lx	205lx	91lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	475fcd	119fcd	53fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,4m	3,3m	4,1m	6,1m	8,1m	12,2m	16,3m	20,3m	24,4m	32,5m	40,6m
Beam wid.	2,7ft	5,4ft	8ft	10,6ft	13,3ft	20ft	26,7ft	40ft	53,3ft	66,6ft	80ft	106,6ft	133,3ft

LINEAR DISTRIBUTION DIAGRAM

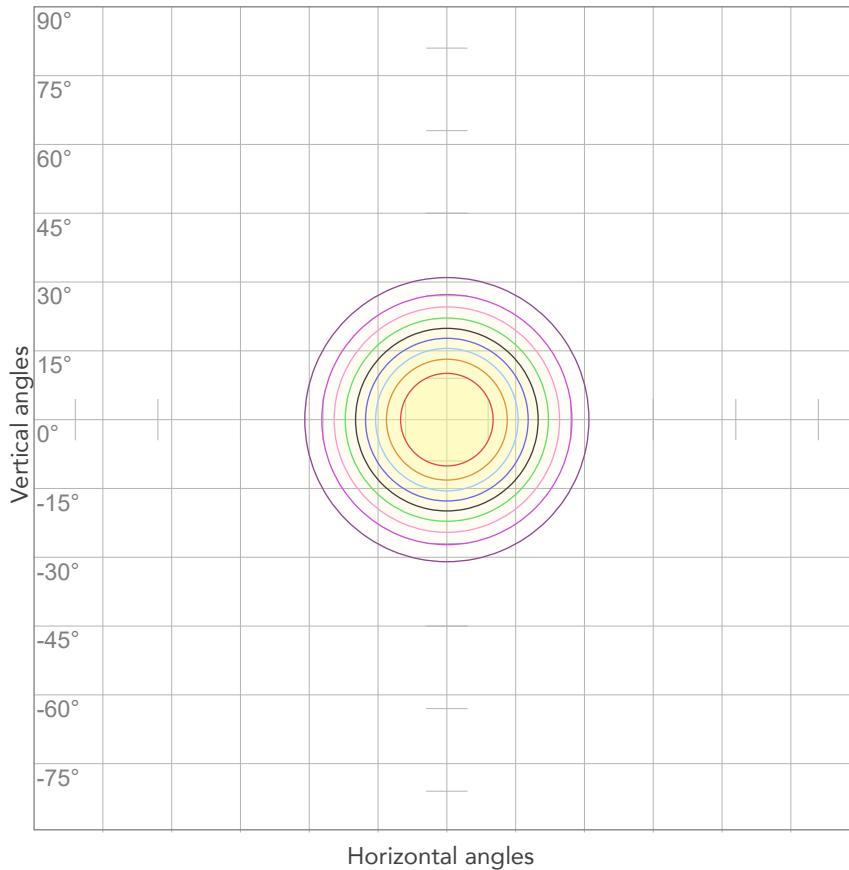


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,277A	58,3W	0,93	51lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



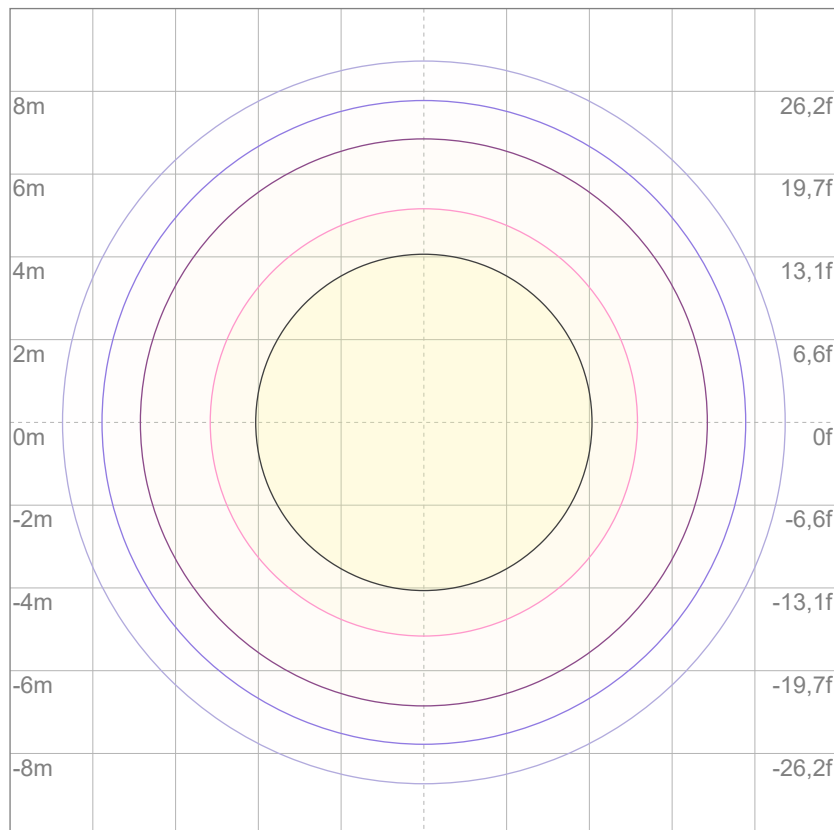
10%	511 cd
20%	1023 cd
30%	1534 cd
40%	2045 cd
50%	2556 cd
60%	3068 cd
70%	3579 cd
80%	4090 cd

Conditions:

Number of c-planes: 2

Candela at center: 5113 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,53 lx
5%	2,56 lx
10%	5,11 lx
30%	15,3 lx
50%	25,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 51,1 lx

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



Total lumen output:

2807 lm

Peak candela output:

2488 cd

Light quality:

CRI: 93,2

Color temperature:

3220 K

PRODUCT NAME:
ECLPENDANTS FC

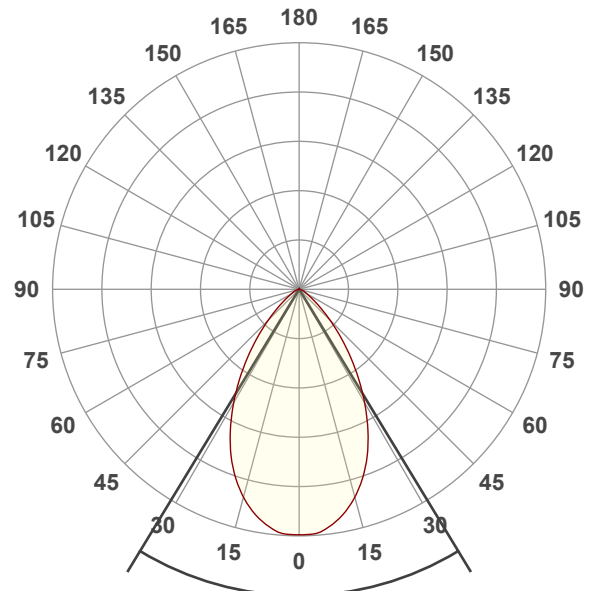
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
3200K

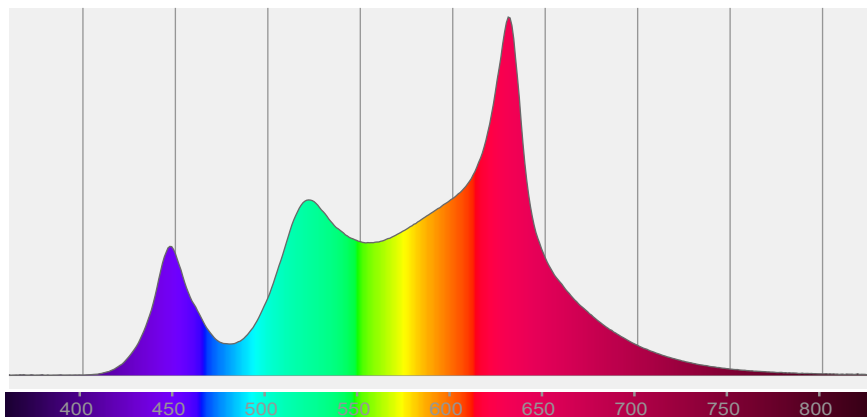
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:10:10

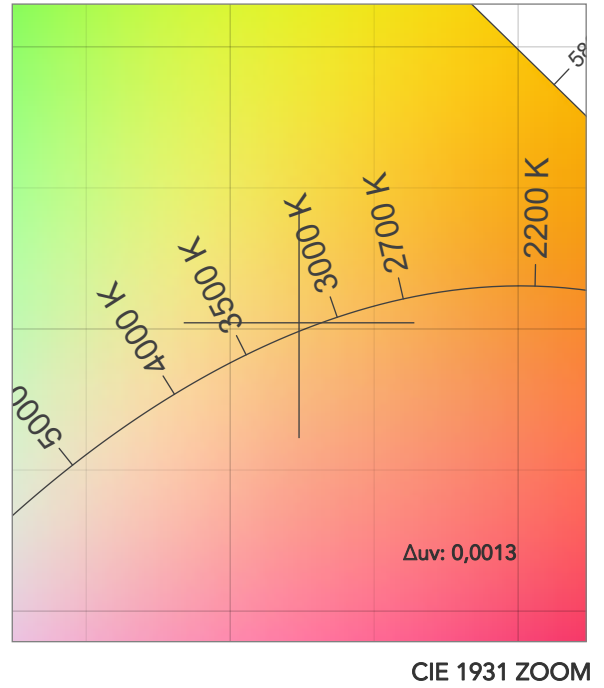
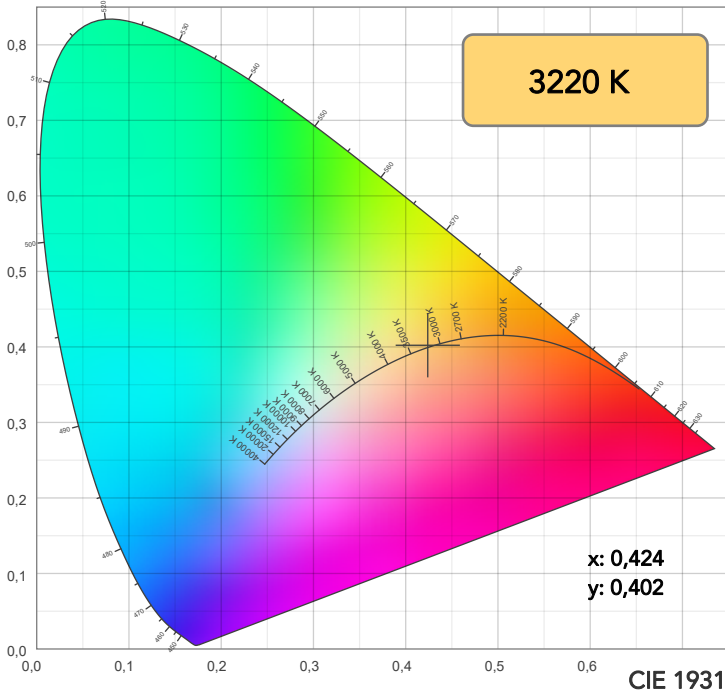


Beam angle 50%: 62,6°
Field angle 10%: 101,2°
Cut off angle 2.5%: 129,6°

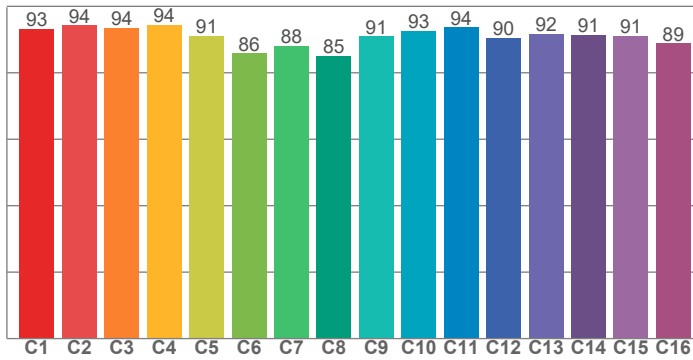
Spectra



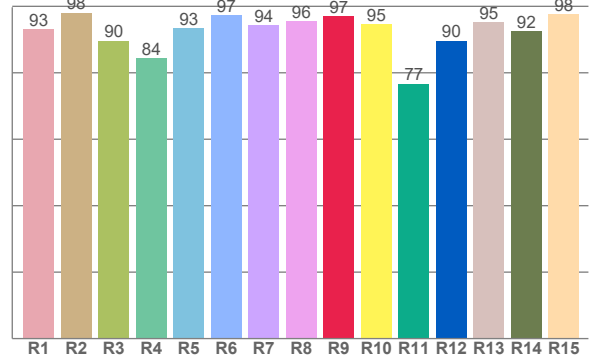
COLOR DETAILS



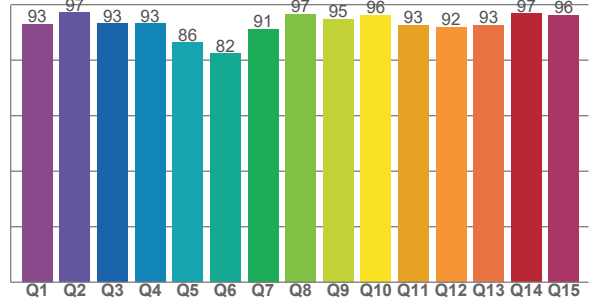
TM30: 91,5



CRI: 93,2 (R1-R8)



CQS: 91,8



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
93,1	98,0	89,6	84,4	93,4	97,2	94,2	95,5	97,1	94,6	76,7	89,6	95,3	92,5	97,5

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
93,3	94,3	93,6	94,4	91,1	85,8	88,0	85,0	91,0	92,5	93,7	90,4	91,8	91,4	91,1	88,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,0	97,1	93,1	93,2	86,4	82,4	91,2	96,6	94,8	96,3	92,7	92,0	92,5	96,8	96,3

COLOR PARAMETERS

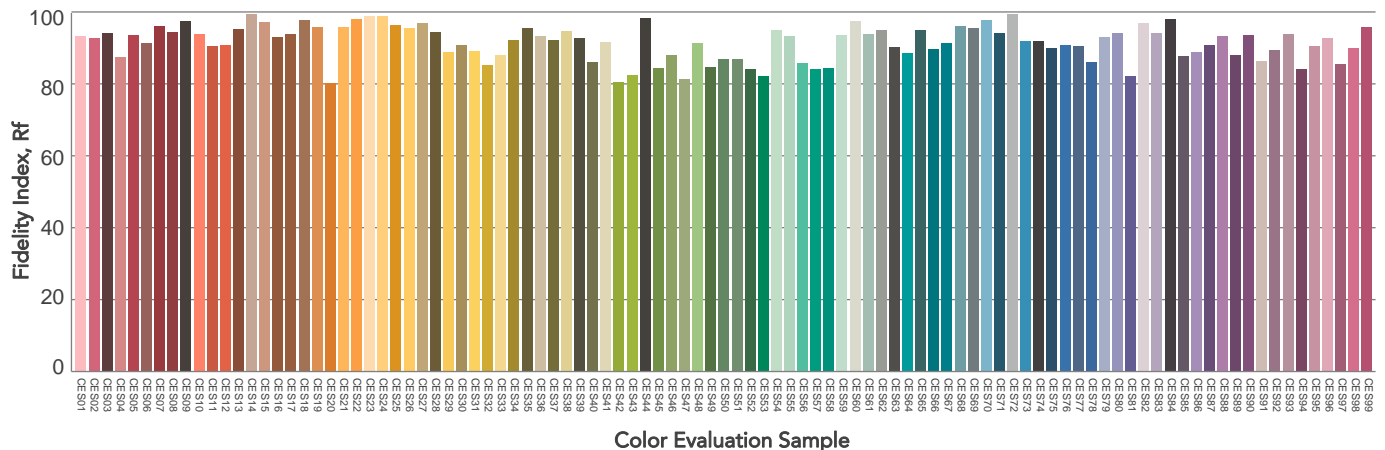
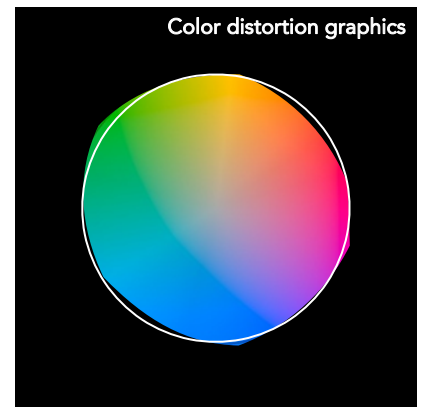
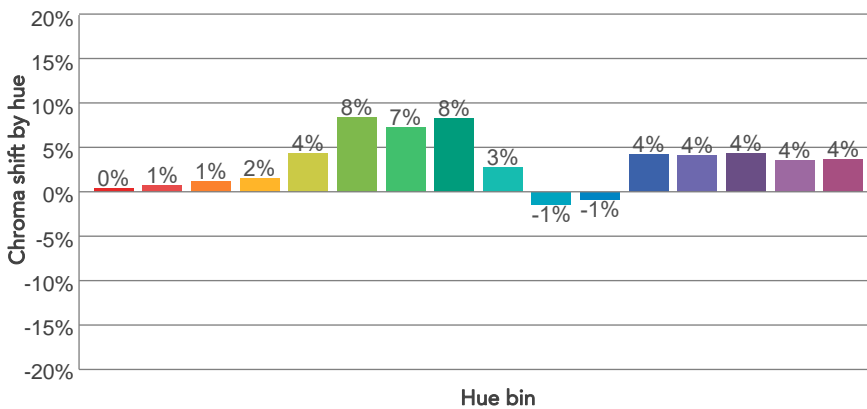
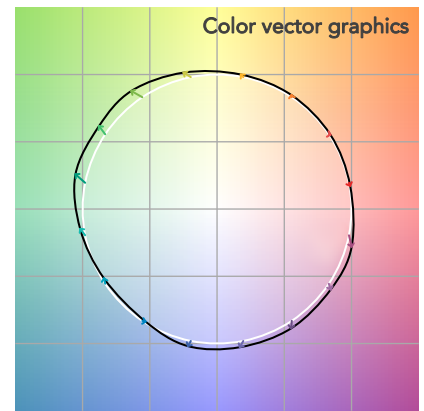
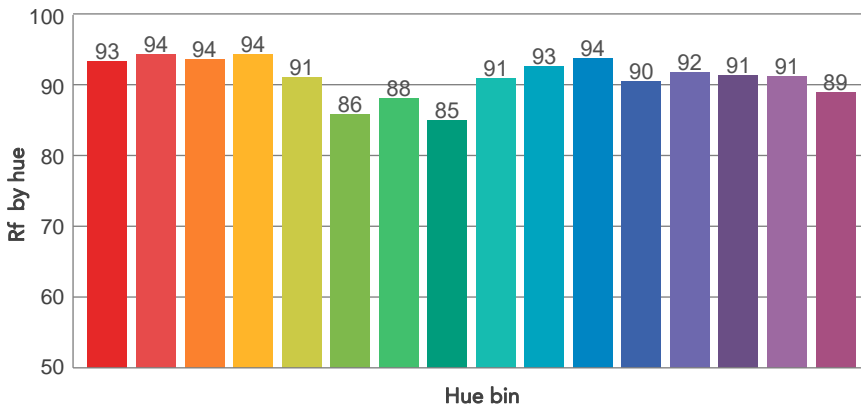
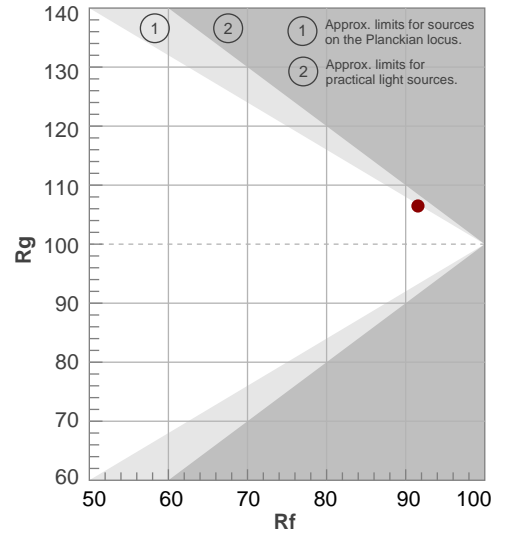
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3220 K	93,2	97,1	91,5	106,5	91,8	81	0,424	0,402	0,0013

TM30 DETAILS

Rf 91,5
Fidelity index Rf

Rg 106,5
Gammut index

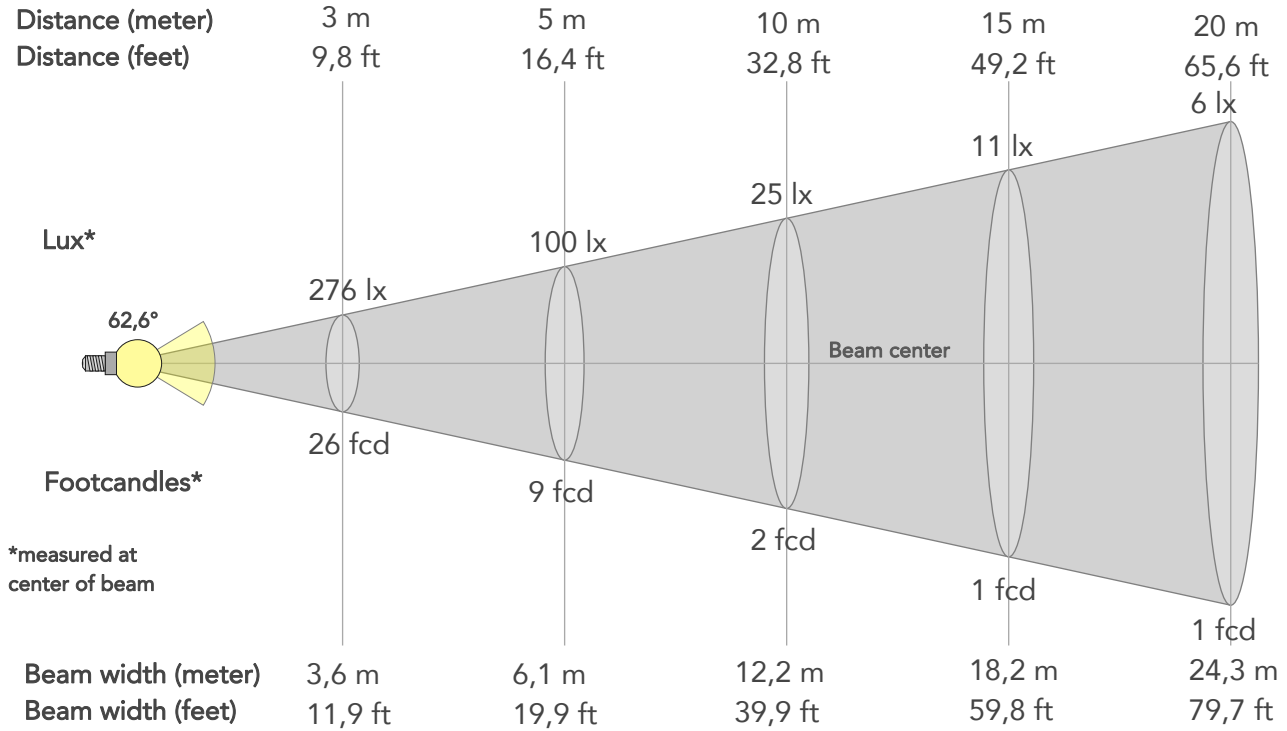
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-2%
2	94	1%	-1%
3	94	1%	1%
4	94	2%	2%
5	91	4%	5%
6	86	8%	4%
7	88	7%	-3%
8	85	8%	-5%
9	91	3%	-5%
10	93	-1%	-4%
11	94	-1%	2%
12	90	4%	-1%
13	92	4%	-3%
14	91	4%	-3%
15	91	4%	-3%
16	89	4%	-8%



BEAM DETAILS



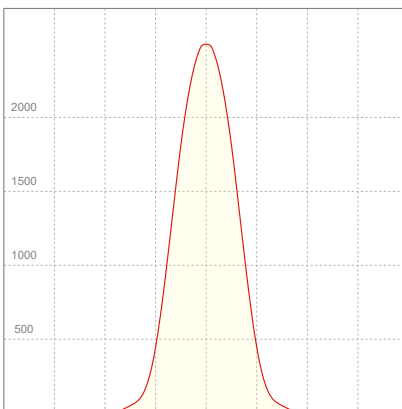
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,6°	101,2°	129,6°	96,5%	86,5%



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	2488lx	622lx	276lx	156lx	100lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	231fcd	58fcd	26fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,9m	6,1m	9,1m	12,2m	18,2m	24,3m	30,4m	36,5m	48,6m	60,8m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,9ft	39,9ft	59,8ft	79,7ft	99,7ft	119,6ft	159,5ft	199,3ft

LINEAR DISTRIBUTION DIAGRAM

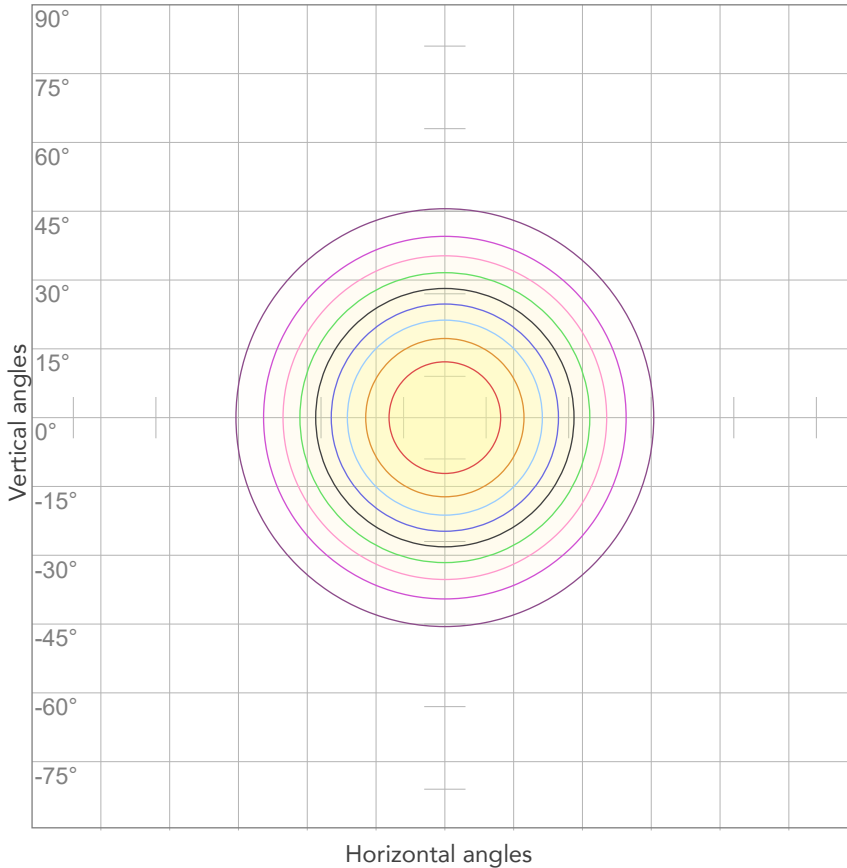


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,279A	58,8W	0,93	48lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



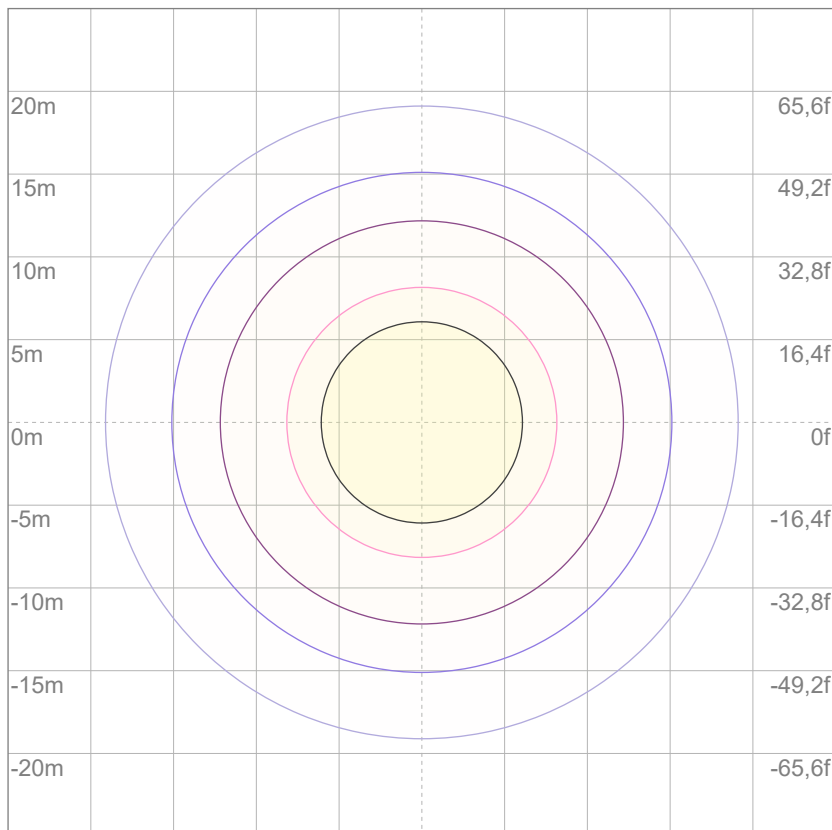
10%	249 cd
20%	498 cd
30%	746 cd
40%	995 cd
50%	1244 cd
60%	1493 cd
70%	1742 cd
80%	1991 cd

Conditions:

Number of c-planes: 2

Candela at center: 2488 cd

ISO LUX DIAGRAM



3%	0,746 lx
5%	1,24 lx
10%	2,49 lx
30%	7,46 lx
50%	12,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 24,9 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2890 lm

Peak candela output:

14661 cd

Light quality:

CRI: 93,5

Color temperature:

4046 K

PRODUCT NAME:
ECLPENDANTS FC

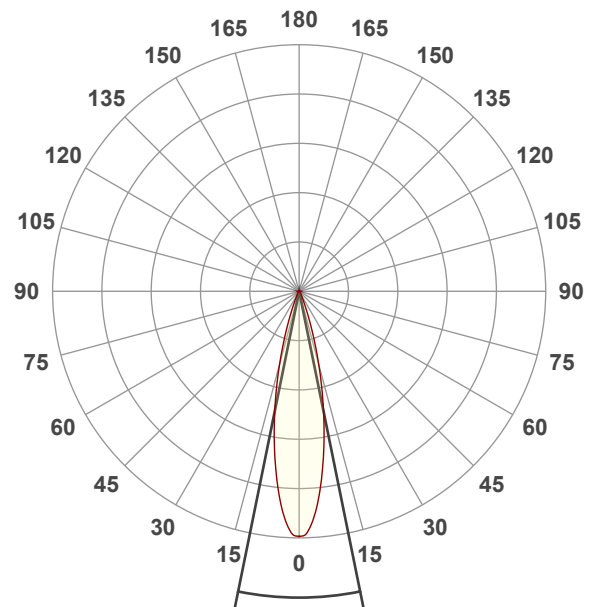
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
4000K

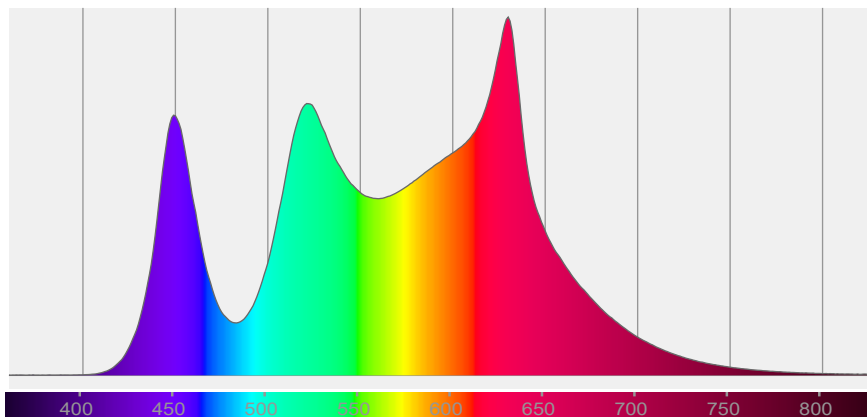
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:20:56

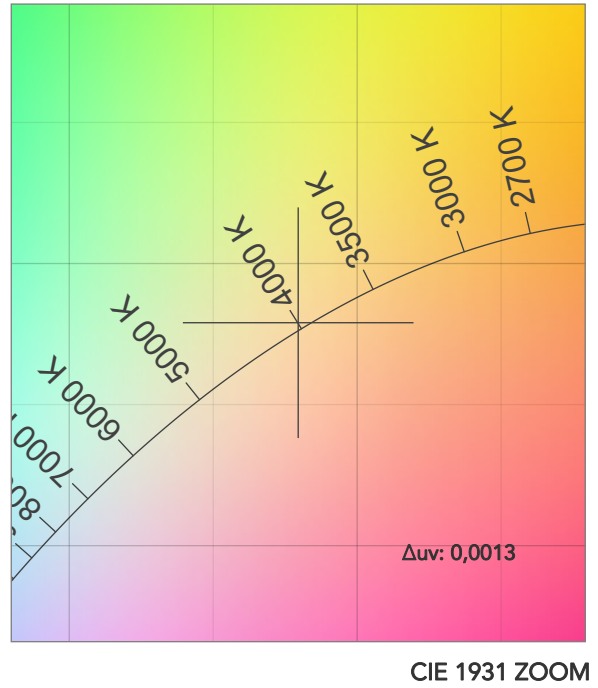
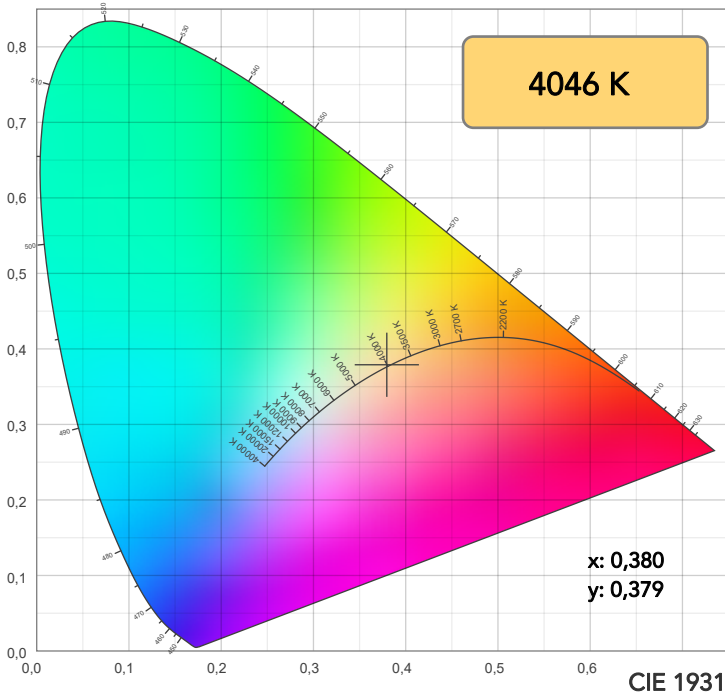


Beam angle 50%: 23°
Field angle 10%: 41°
Cut off angle 2.5%: 53,7°

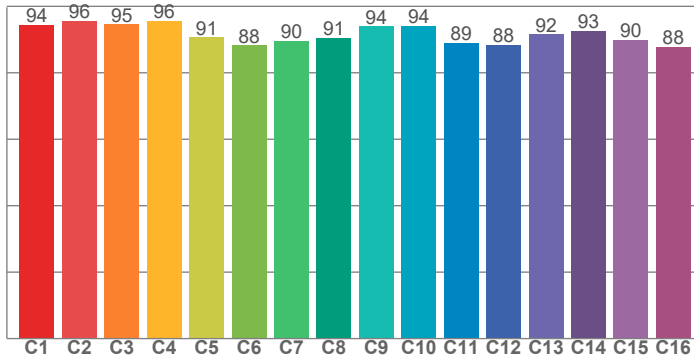
Spectra



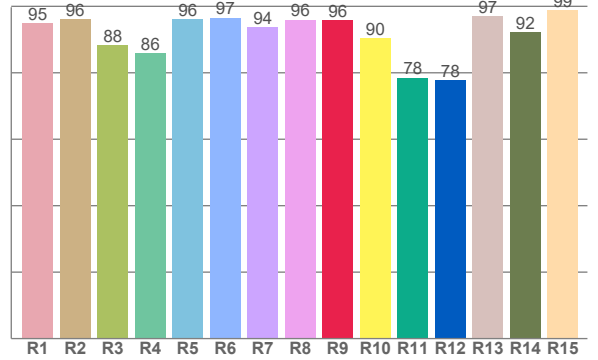
COLOR DETAILS



TM30: 91,9



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
94,9	96,1	88,4	85,8	96,1	96,6	93,8	96,0	95,8	90,4	78,5	77,7	97,1	92,2	98,8

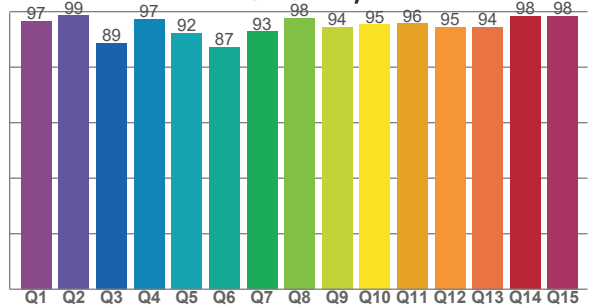
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	95,7	94,6	95,6	90,6	88,3	89,6	90,6	93,9	94,1	88,9	88,4	91,6	92,6	89,9	87,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,6	98,6	88,8	97,3	92,2	87,1	92,8	97,8	94,5	95,4	95,8	94,5	94,5	98,3	98,4

CQS: 93,9



COLOR PARAMETERS

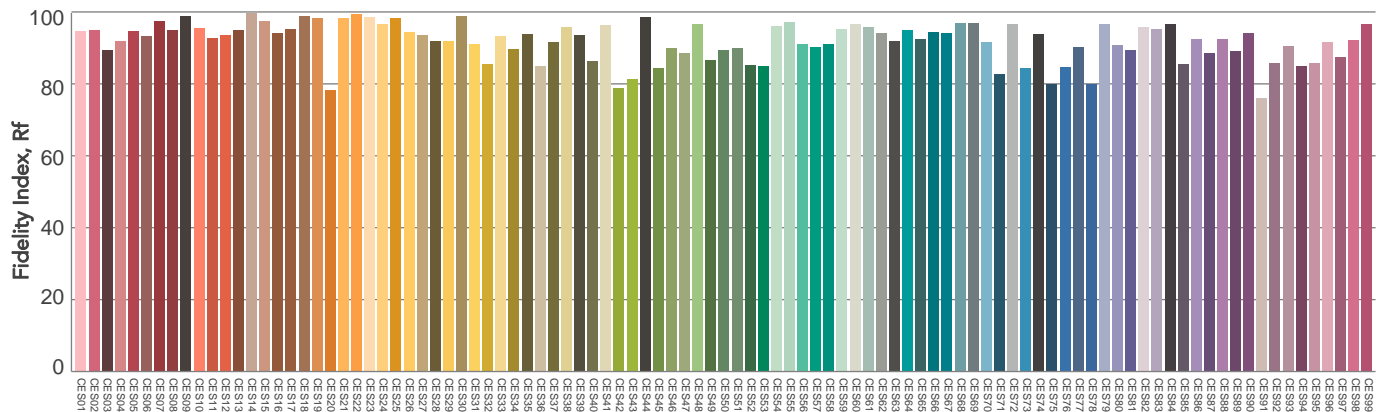
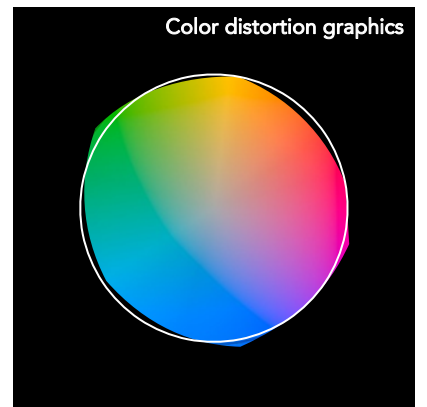
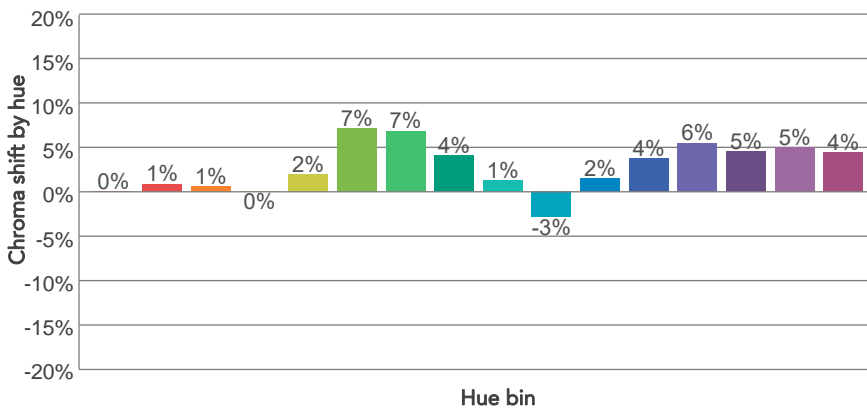
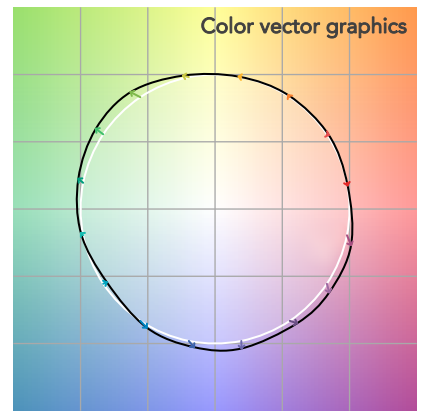
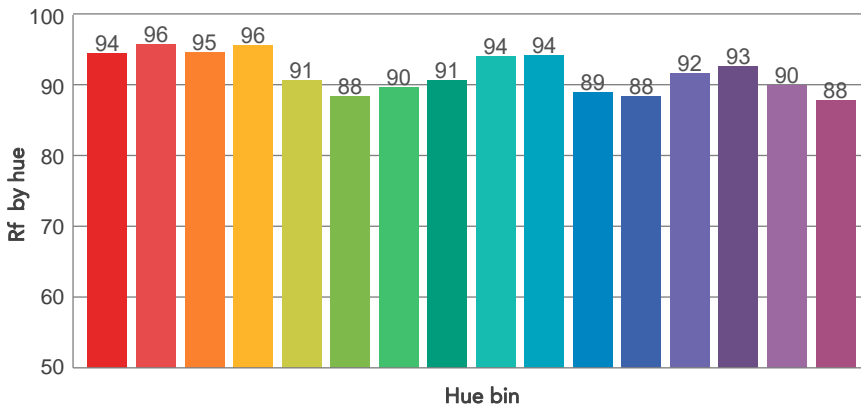
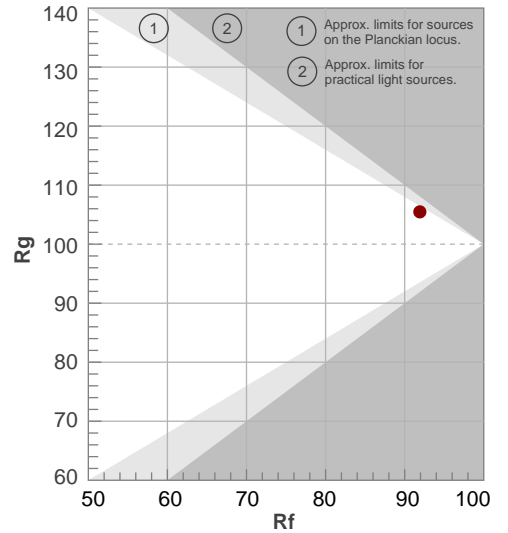
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4046 K	93,5	95,8	91,9	105,5	93,9	84	0,380	0,379	0,0013

TM30 DETAILS

Rf 91,9
Fidelity index Rf

Rg 105,5
Gammut index

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

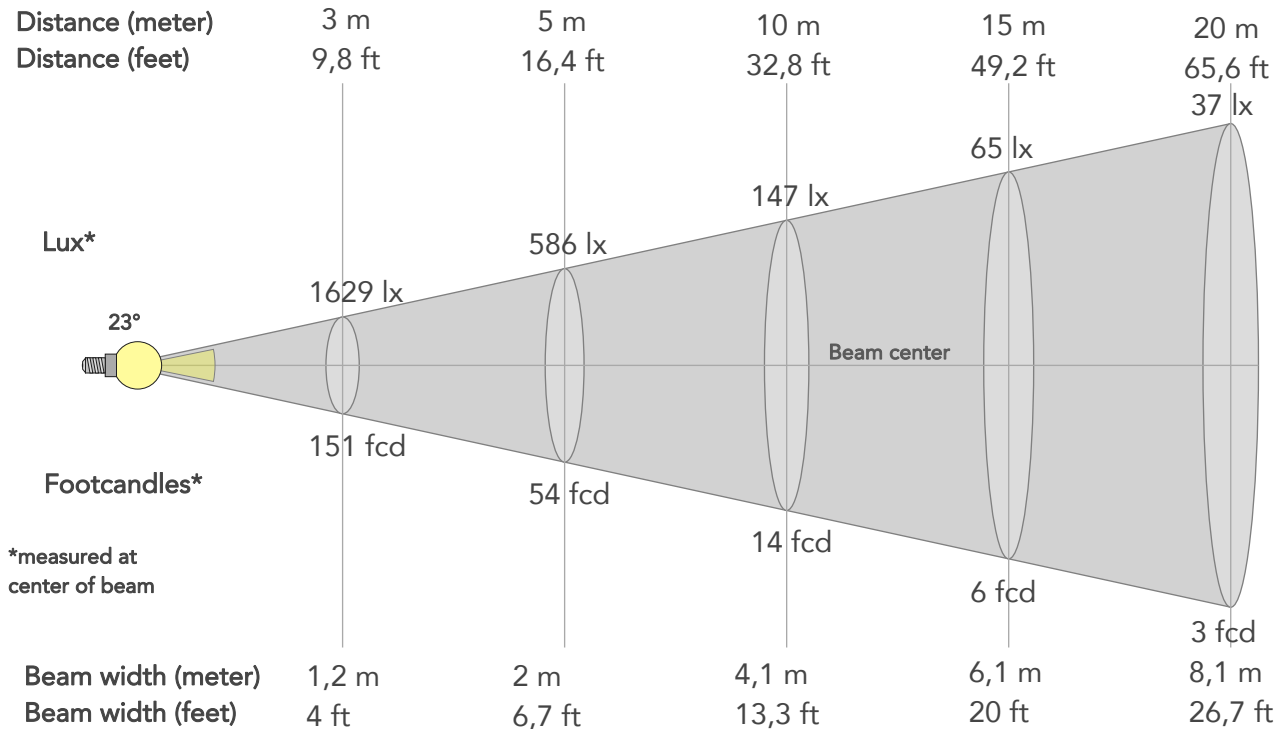


Color Evaluation Sample

BEAM DETAILS



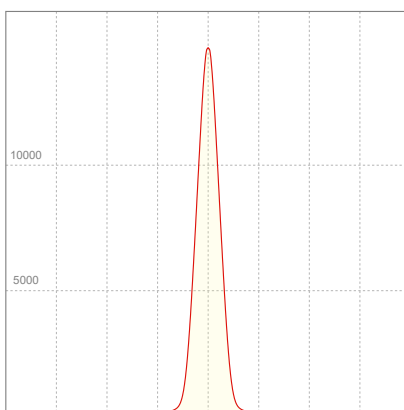
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23°	41°	53,7°	98,1%	94,9%



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	14661lx	3665lx	1629lx	916lx	586lx	261lx	147lx	65lx	37lx	23lx	16lx	9lx	6lx
Footcand.	1362fcd	341fcd	151fcd	85fcd	54fcd	24fcd	14fcd	6fcd	3fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4,1m	6,1m	8,1m	10,2m	12,2m	16,3m	20,3m
Beam wid.	1,3ft	2,7ft	4ft	5,3ft	6,7ft	10ft	13,3ft	20ft	26,7ft	33,3ft	40ft	53,3ft	66,7ft

LINEAR DISTRIBUTION DIAGRAM

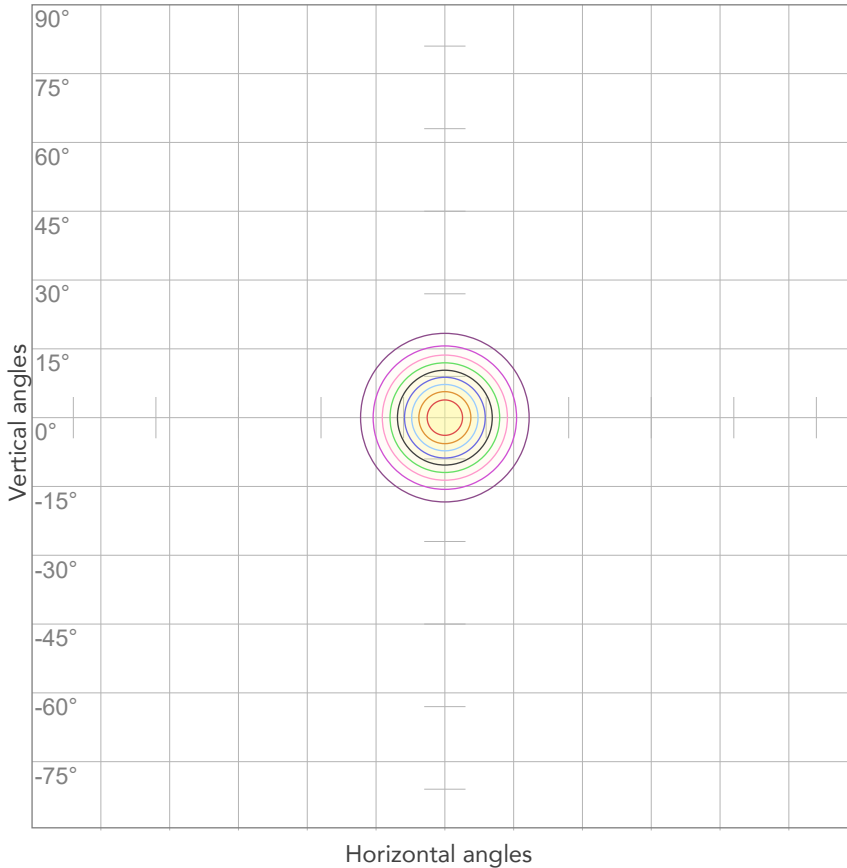


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,280A	58,9W	0,93	49lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



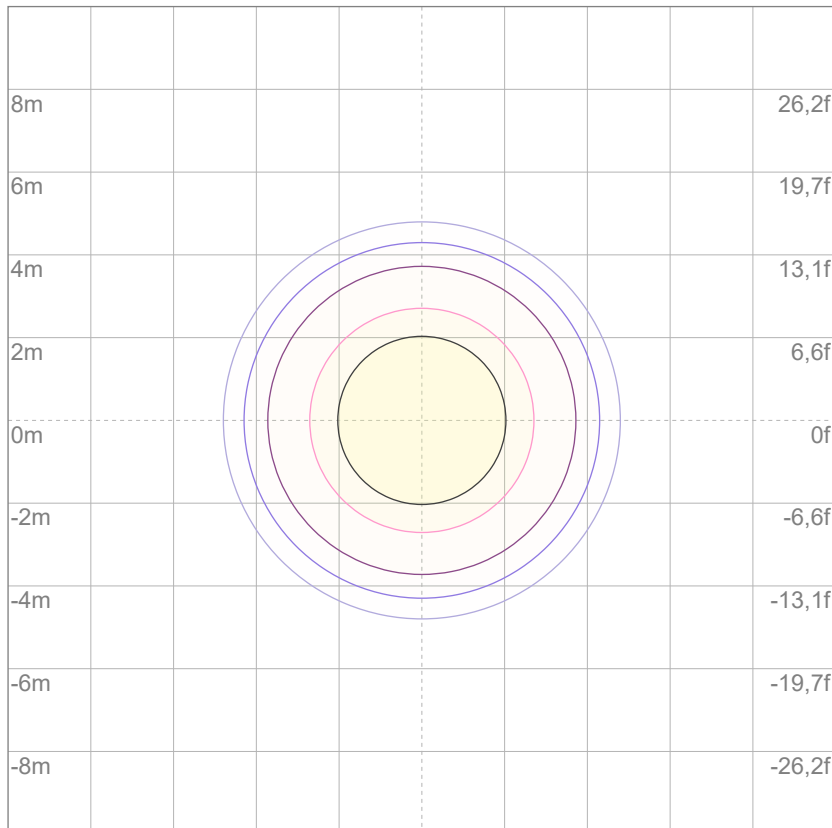
10%	1466 cd
20%	2932 cd
30%	4398 cd
40%	5864 cd
50%	7330 cd
60%	8796 cd
70%	10263 cd
80%	11729 cd

Conditions:

Number of c-planes: 2

Candela at center: 14661 cd

ISO LUX DIAGRAM



3%	4,40 lx
5%	7,33 lx
10%	14,7 lx
30%	44,0 lx
50%	73,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 147 lx

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



Total lumen output:

2848 lm

Peak candela output:

4869 cd

Light quality:

CRI: 93,4

Color temperature:

4046 K

PRODUCT NAME:
ECLPENDANTS FC

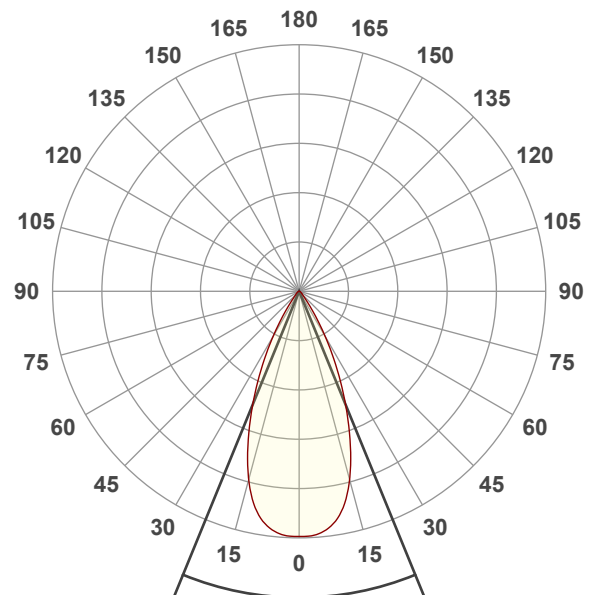
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
4000K

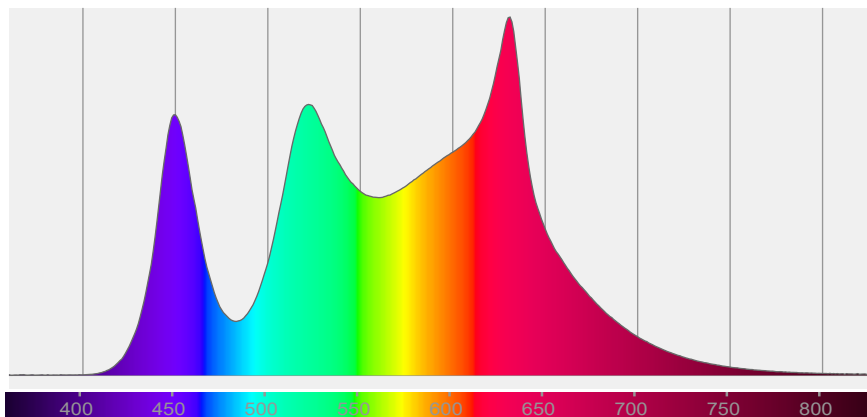
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:24:59

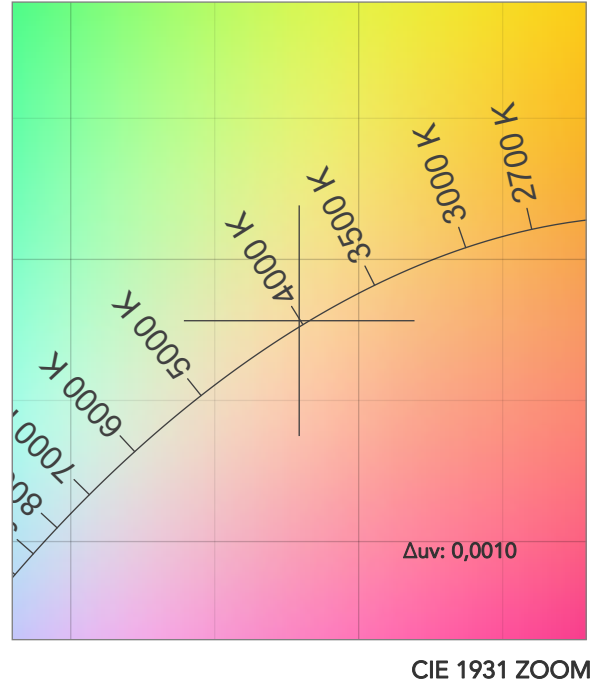
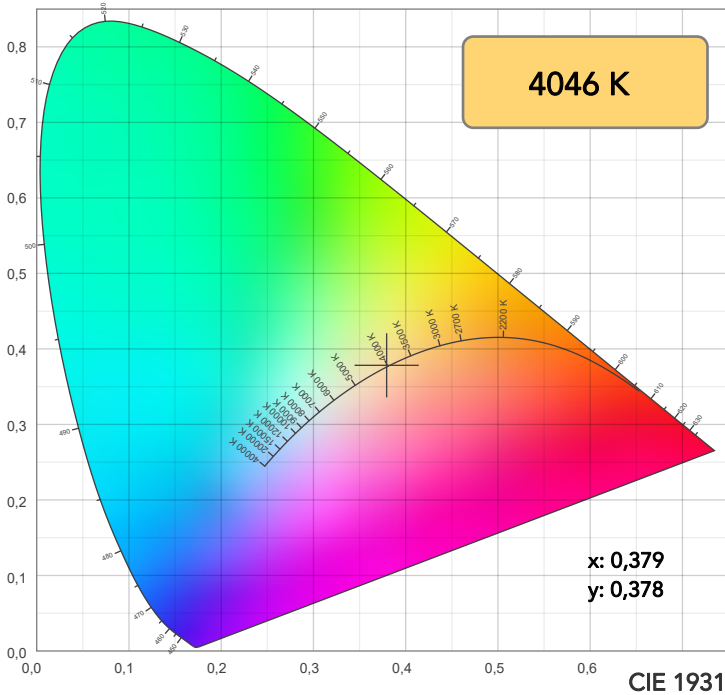


Beam angle 50%: 44,6°
Field angle 10%: 68,9°
Cut off angle 2.5%: 85,6°

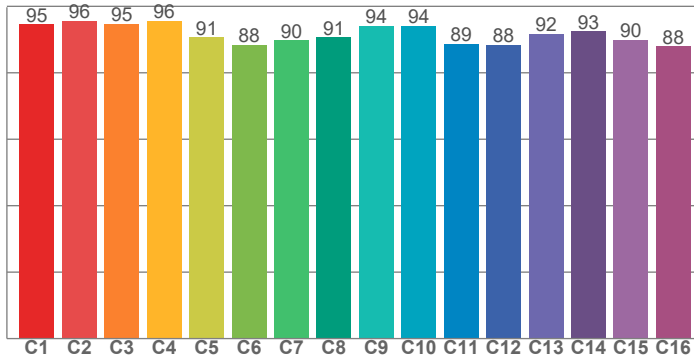
Spectra



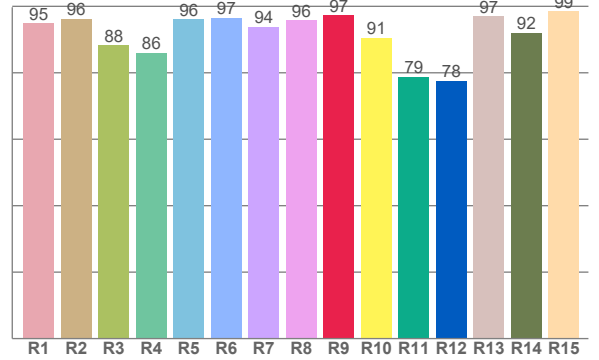
COLOR DETAILS



TM30: 92,0



CRI: 93,4 (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
94,8	96,3	88,2	86,0	96,1	96,5	93,8	95,7	97,2	90,5	78,8	77,7	97,0	92,1	98,6

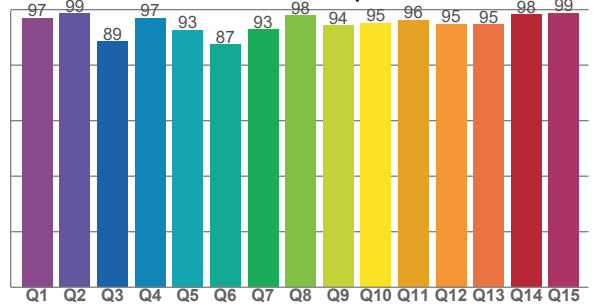
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	95,7	94,8	95,6	90,6	88,5	89,8	90,7	94,1	94,2	88,8	88,5	91,7	92,5	90,0	87,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,0	98,6	88,5	97,0	92,6	87,5	92,8	97,9	94,3	95,2	96,1	94,8	94,6	98,3	98,8

CQS: 93,9



COLOR PARAMETERS

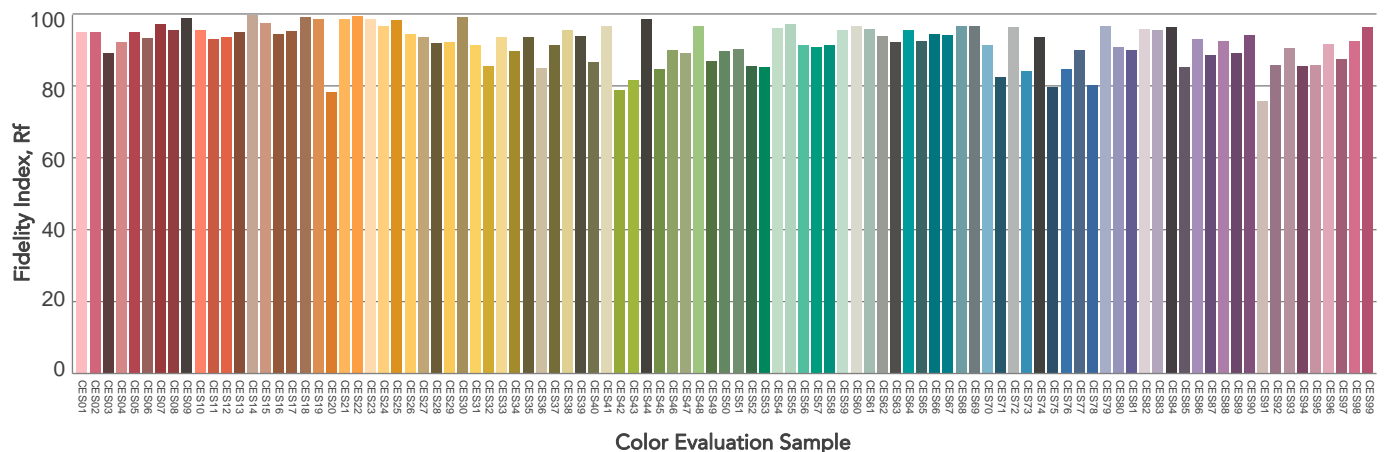
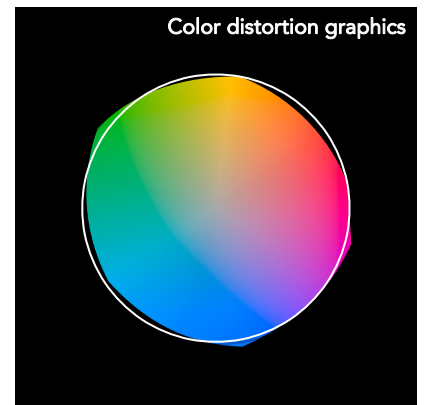
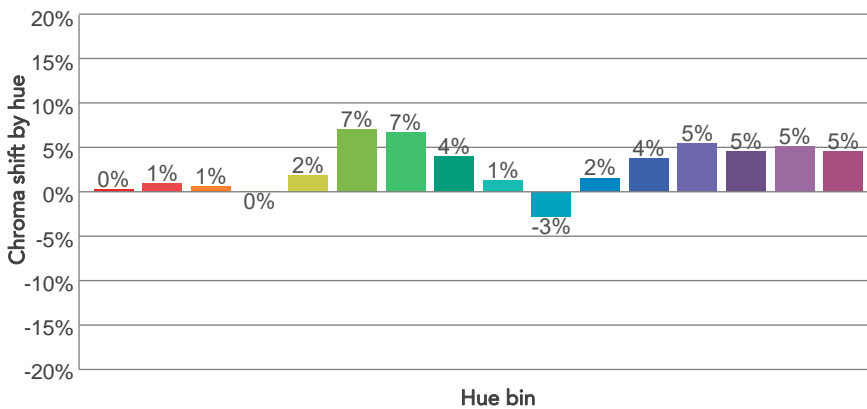
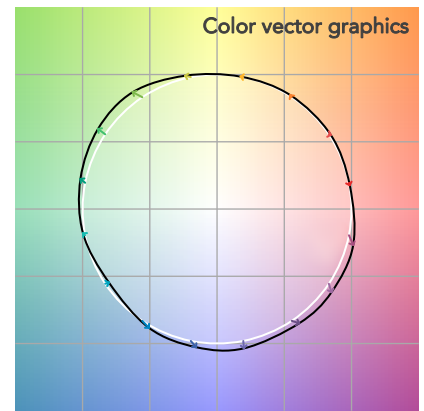
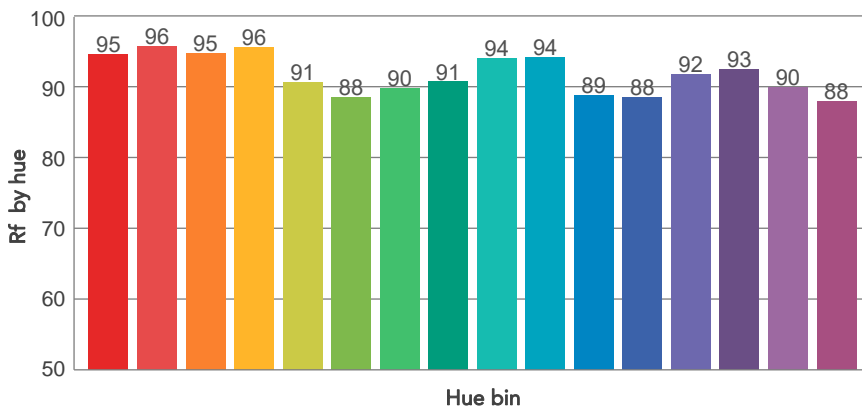
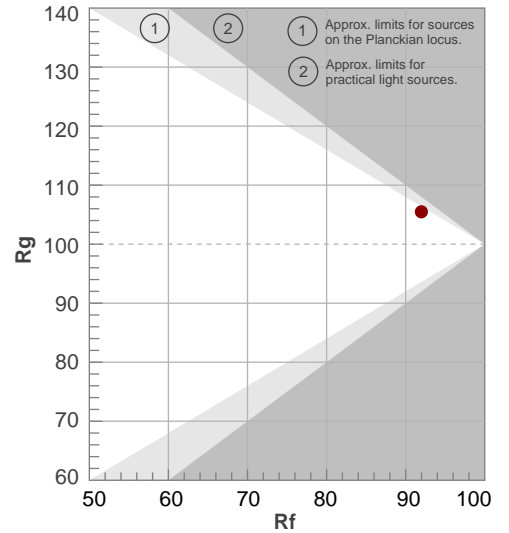
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4046 K	93,4	97,2	92,0	105,5	93,9	85	0,379	0,378	0,0010

TM30 DETAILS

Rf 92,0
Fidelity index Rf

Rg 105,5
Gammut index

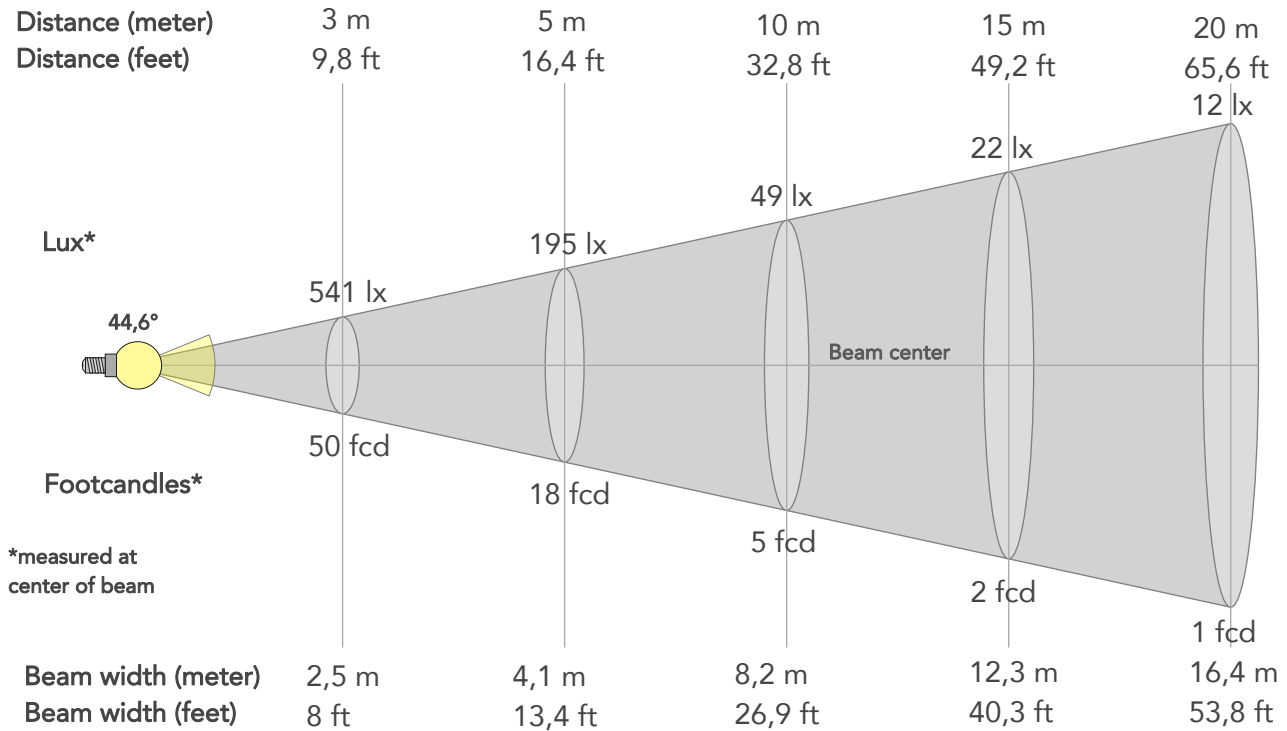
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-2%
2	96	1%	-1%
3	95	1%	2%
4	96	0%	2%
5	91	2%	4%
6	88	7%	4%
7	90	7%	0%
8	91	4%	-2%
9	94	1%	-2%
10	94	-3%	1%
11	89	2%	7%
12	88	4%	5%
13	92	5%	-1%
14	93	5%	4%
15	90	5%	-4%
16	88	5%	-6%



BEAM DETAILS



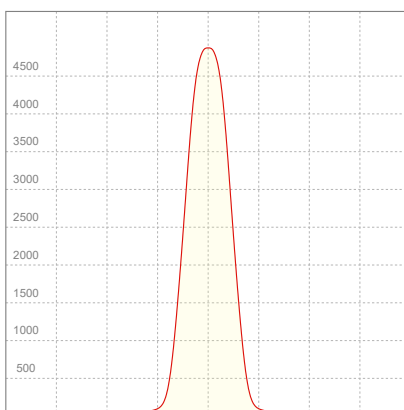
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44,6°	68,9°	85,6°	98,5%	95,4%



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	4869lx	1217lx	541lx	304lx	195lx	87lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	452fcd	113fcd	50fcd	28fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,8m	1,6m	2,5m	3,3m	4,1m	6,1m	8,2m	12,3m	16,4m	20,5m	24,6m	32,8m	41m
Beam wid.	2,7ft	5,4ft	8ft	10,7ft	13,4ft	20,2ft	26,9ft	40,3ft	53,8ft	67,2ft	80,6ft	107,5ft	134,4ft

LINEAR DISTRIBUTION DIAGRAM

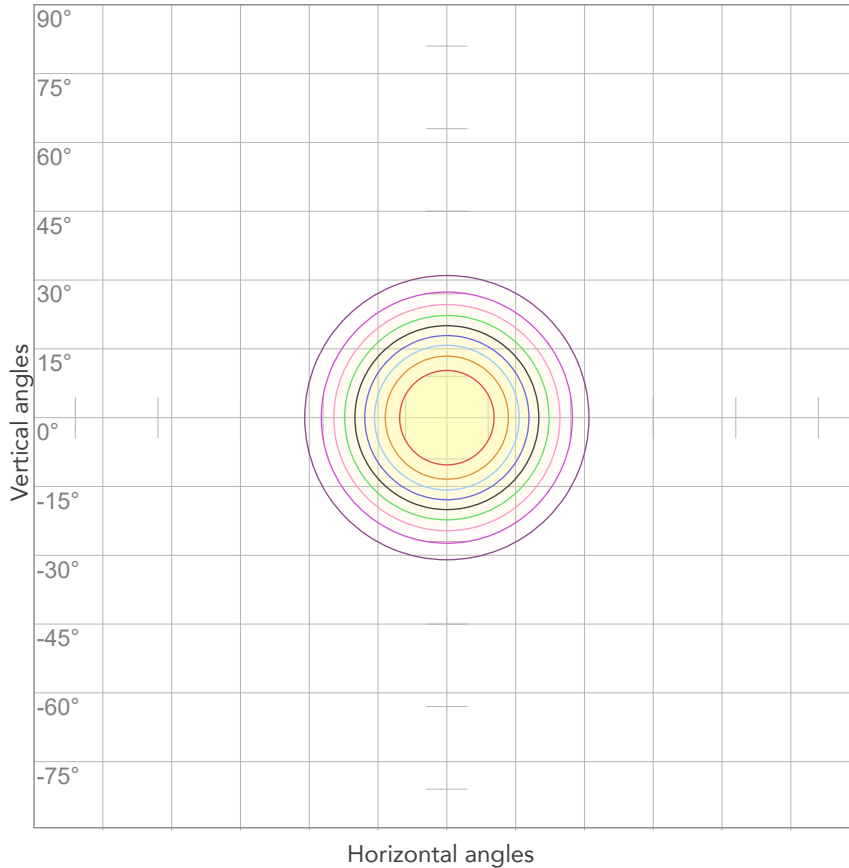


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,278A	58,3W	0,93	49lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



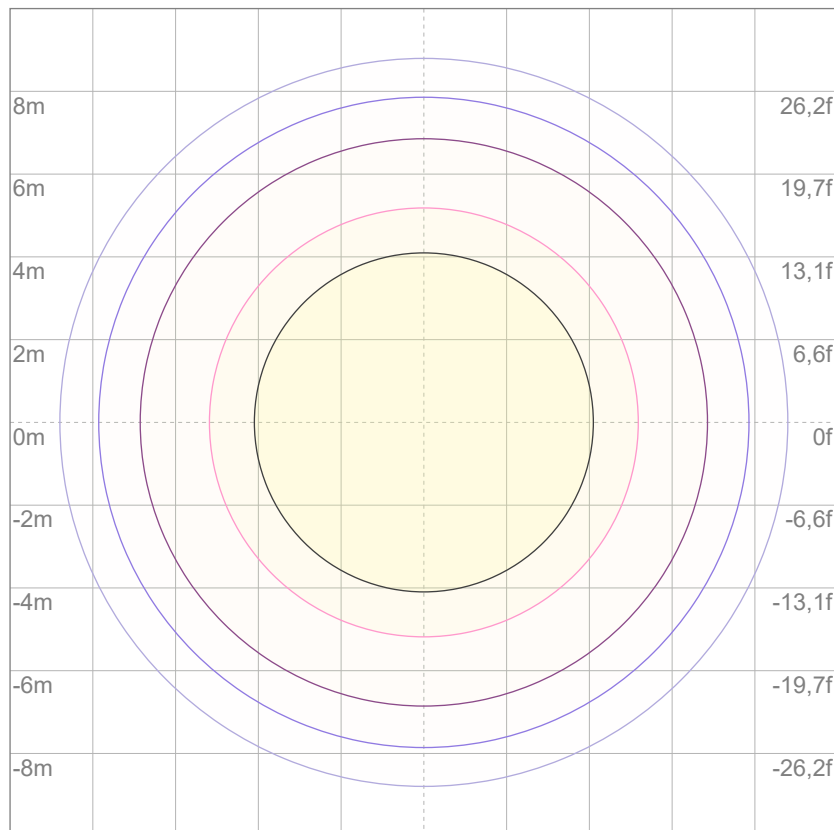
10%	487 cd
20%	974 cd
30%	1461 cd
40%	1947 cd
50%	2434 cd
60%	2921 cd
70%	3408 cd
80%	3895 cd

Conditions:

Number of c-planes: 2

Candela at center: 4869 cd

ISO LUX DIAGRAM



3%	1,46 lx
5%	2,43 lx
10%	4,87 lx
30%	14,6 lx
50%	24,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 48,7 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2692 lm

Peak candela output:

2384 cd

Light quality:

CRI: 93,4

Color temperature:

4031 K

PRODUCT NAME:
ECLPENDANTS FC

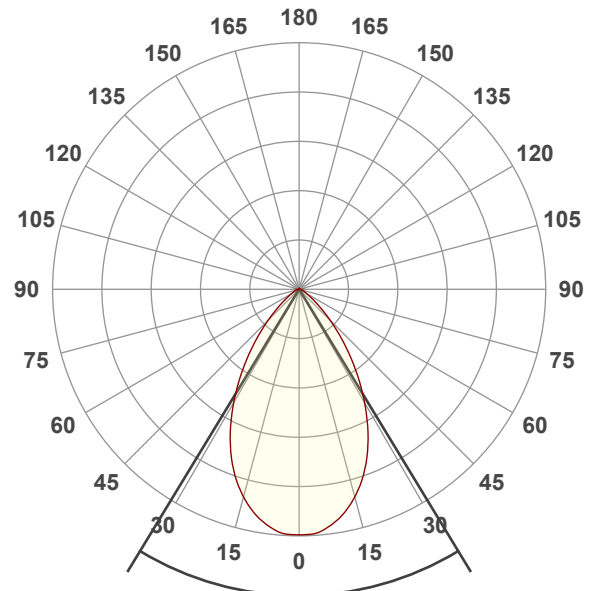
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
4000K

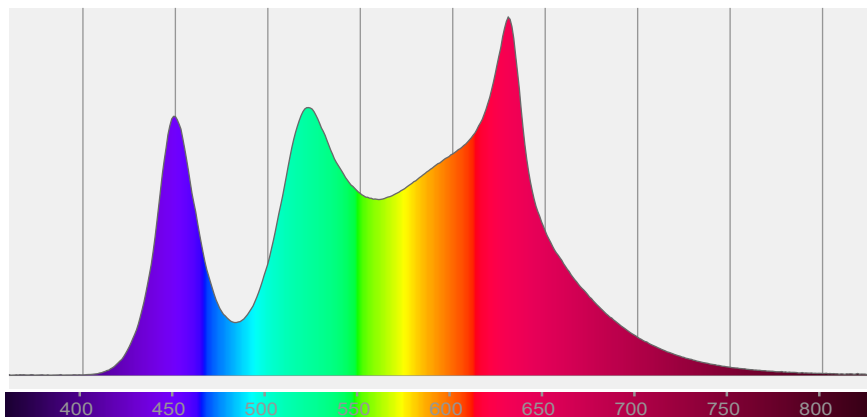
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:12:27

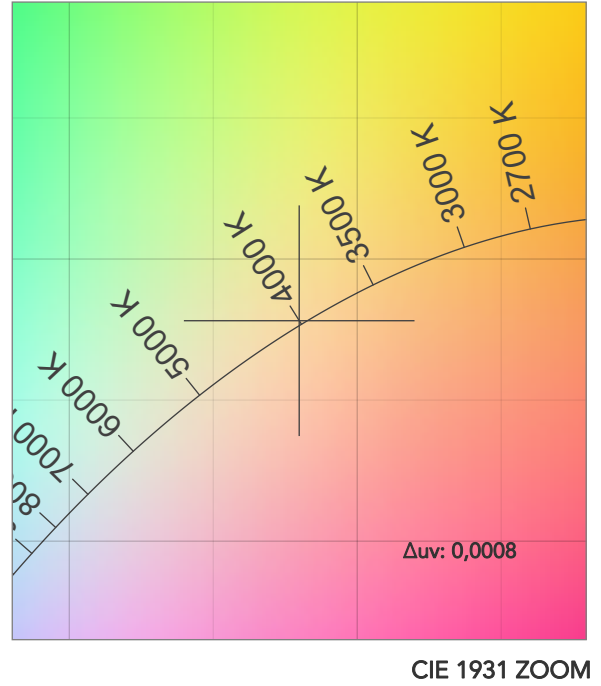
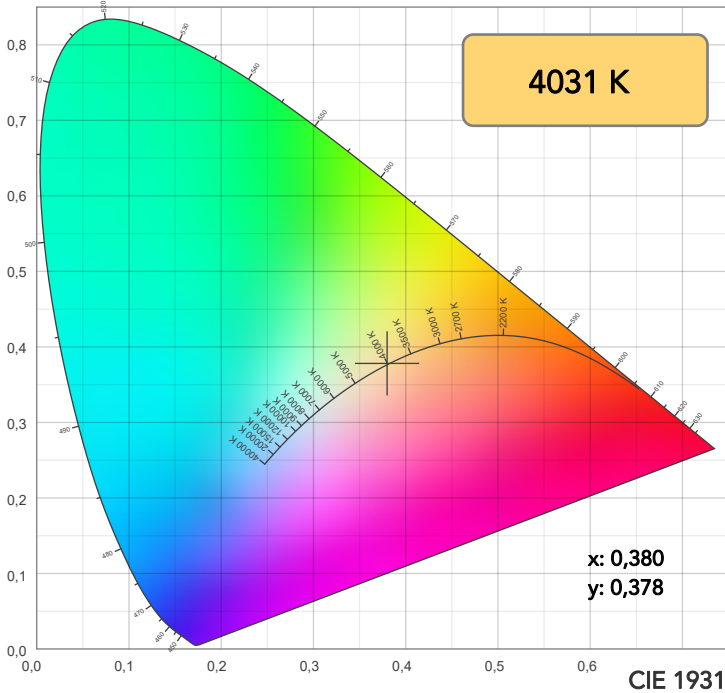


Beam angle 50%: 62,6°
Field angle 10%: 101,3°
Cut off angle 2.5%: 129,7°

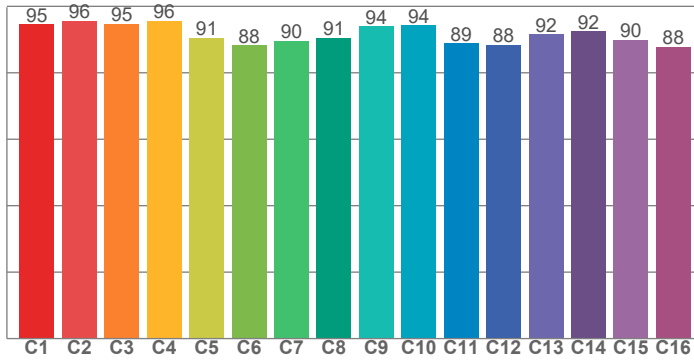
Spectra



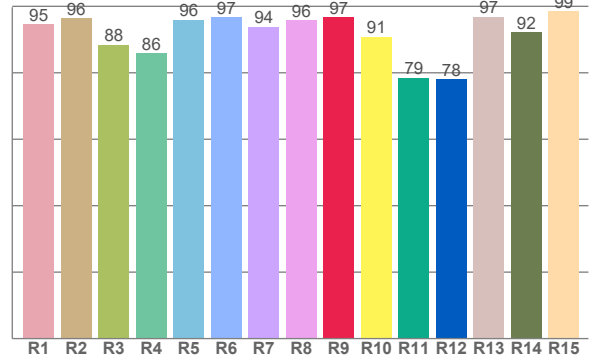
COLOR DETAILS



TM30: 91,9



CRI: 93,4 (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
94,7	96,4	88,4	85,8	96,0	96,6	93,8	95,8	96,8	90,8	78,5	78,2	96,9	92,2	98,5

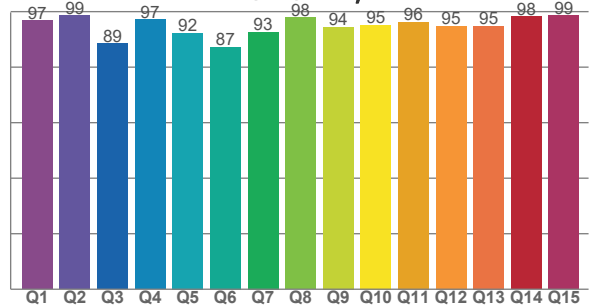
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	95,7	94,7	95,6	90,6	88,3	89,6	90,6	94,0	94,2	88,9	88,4	91,6	92,5	89,9	87,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,8	98,5	88,6	97,2	92,4	87,2	92,7	97,9	94,4	95,2	96,2	94,9	94,8	98,2	98,6

CQS: 93,9



COLOR PARAMETERS

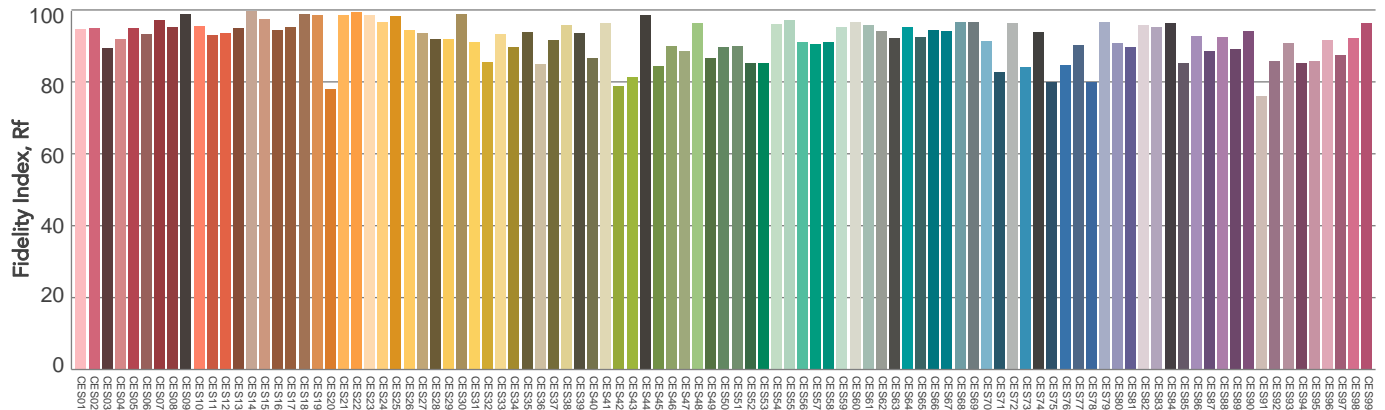
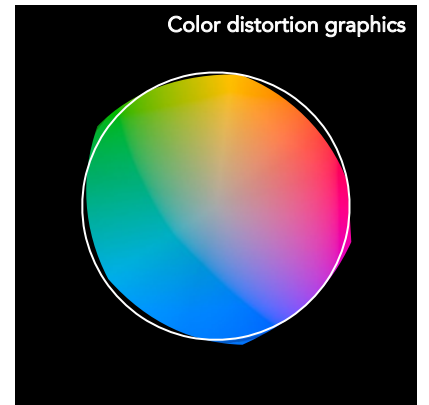
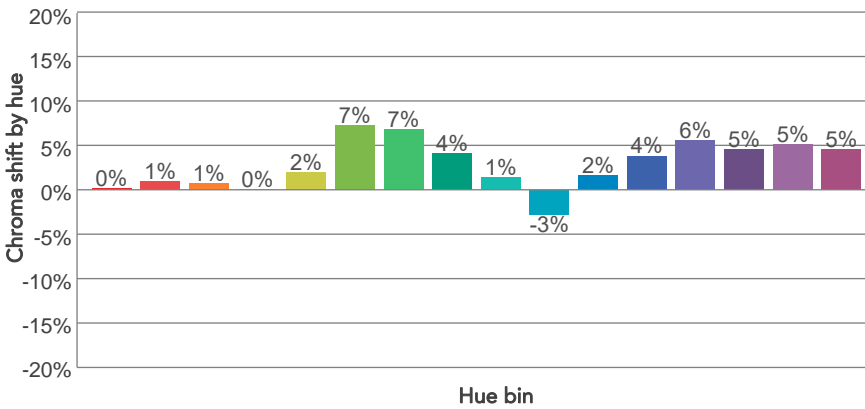
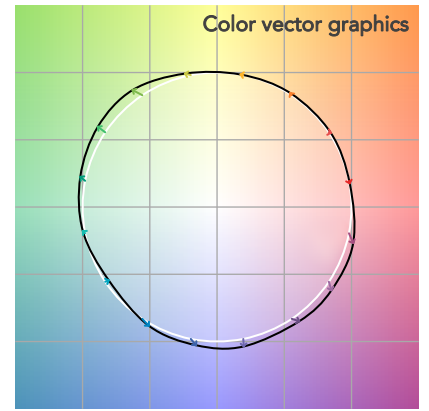
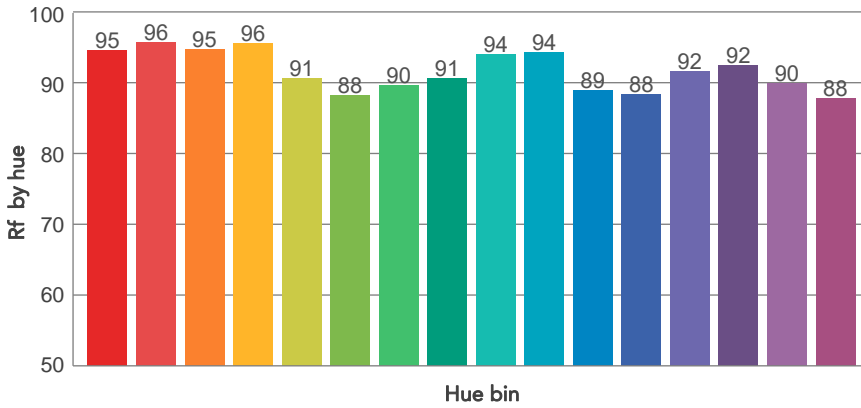
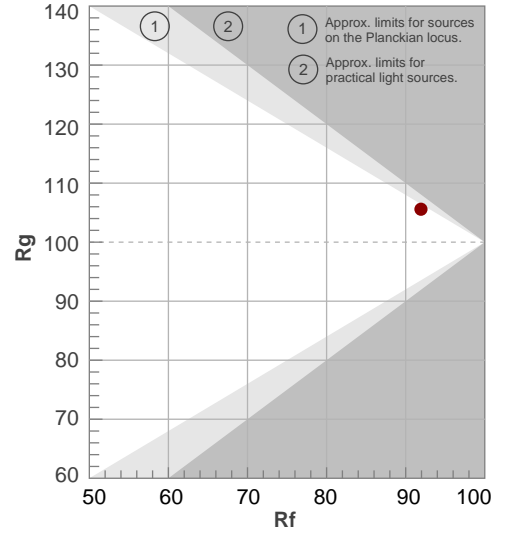
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4031 K	93,4	96,8	91,9	105,6	93,9	84	0,380	0,378	0,0008

TM30 DETAILS

Rf 91,9
Fidelity index Rf

Rg 105,6
Gammut index

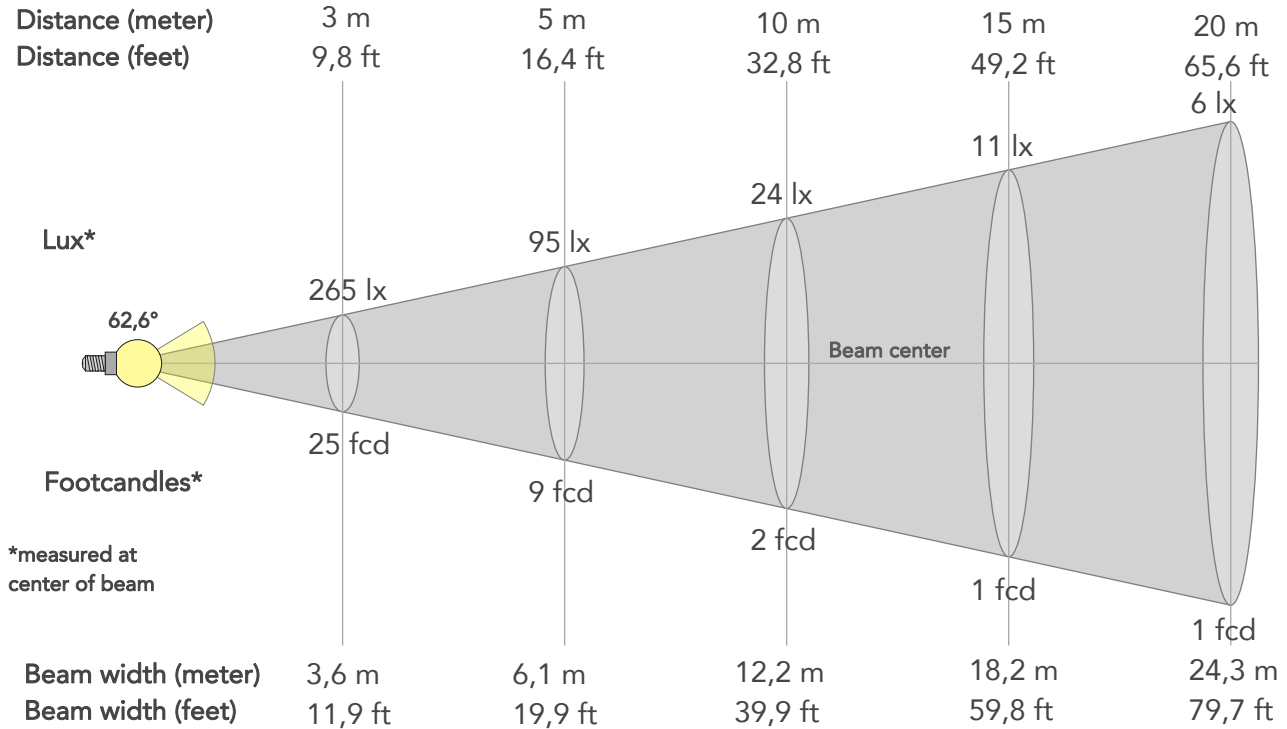
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-2%
2	96	1%	-1%
3	95	1%	2%
4	96	0%	2%
5	91	2%	4%
6	88	7%	4%
7	90	7%	0%
8	91	4%	-2%
9	94	1%	-2%
10	94	-3%	1%
11	89	2%	7%
12	88	4%	5%
13	92	6%	-1%
14	92	5%	4%
15	90	5%	-4%
16	88	5%	-7%



BEAM DETAILS



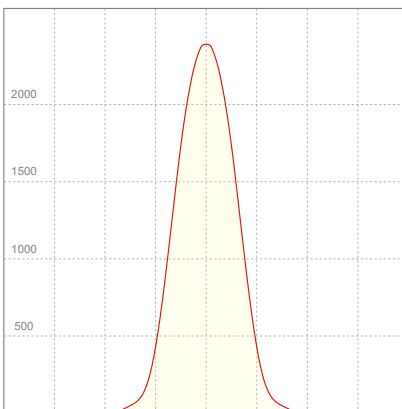
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,6°	101,3°	129,7°	96,5%	86,4%



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	2384lx	596lx	265lx	149lx	95lx	42lx	24lx	11lx	6lx	4lx	3lx	1lx	1lx
Footcand.	222fcd	55fcd	25fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,9m	6,1m	9,1m	12,2m	18,2m	24,3m	30,4m	36,5m	48,6m	60,8m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,9ft	39,9ft	59,8ft	79,7ft	99,7ft	119,6ft	159,5ft	199,3ft

LINEAR DISTRIBUTION DIAGRAM

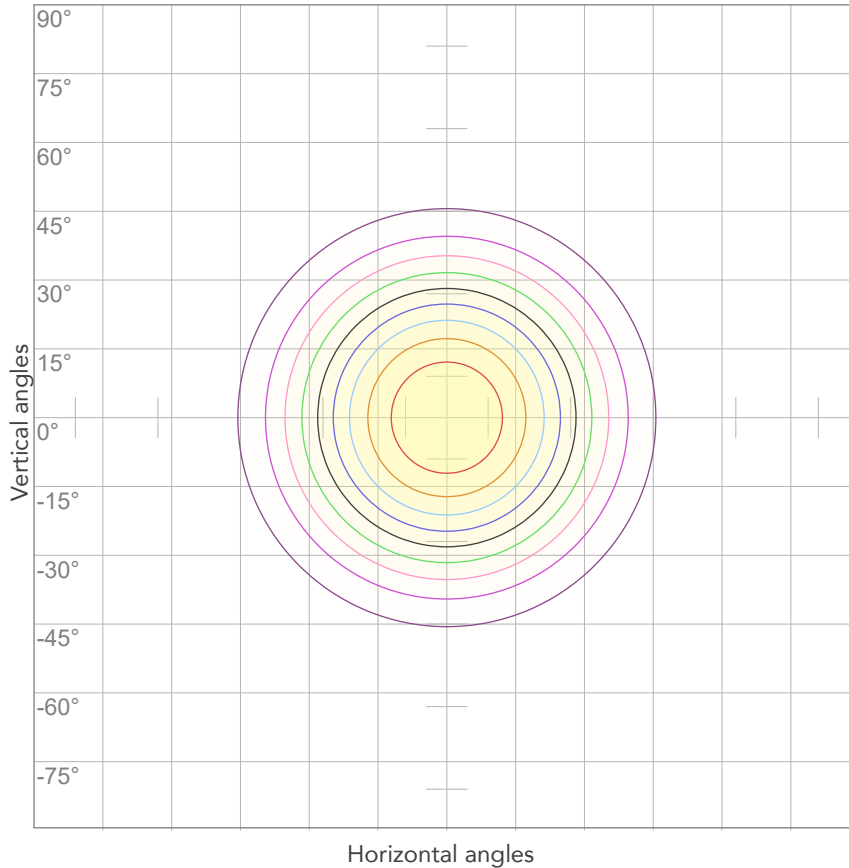


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,278A	58,6W	0,93	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



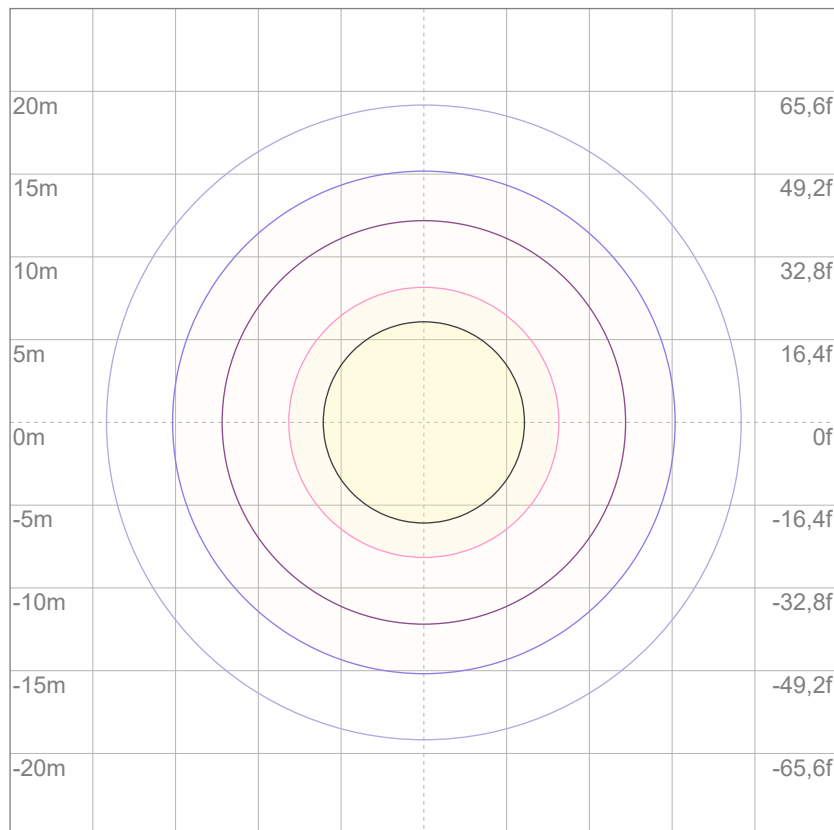
10%	238 cd
20%	477 cd
30%	715 cd
40%	954 cd
50%	1192 cd
60%	1431 cd
70%	1669 cd
80%	1908 cd

Conditions:

Number of c-planes: 2

Candela at center: 2384 cd

ISO LUX DIAGRAM



3%	0,715 lx
5%	1,19 lx
10%	2,38 lx
30%	7,15 lx
50%	11,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 23,8 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2698 lm

Peak candela output:

13538 cd

Light quality:

CRI: 92,8

Color temperature:

5589 K

PRODUCT NAME:
ECLPENDANTS FC

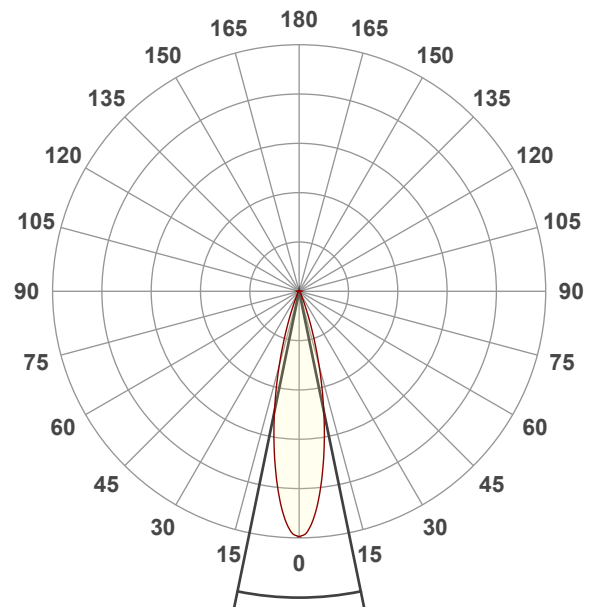
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
5600K

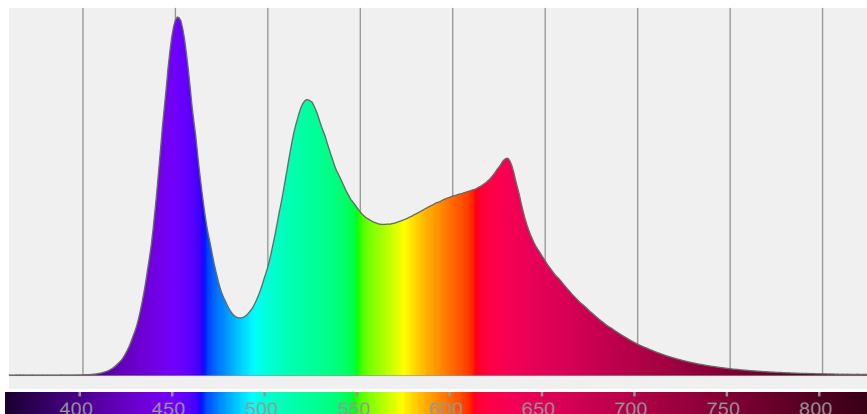
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:28:23

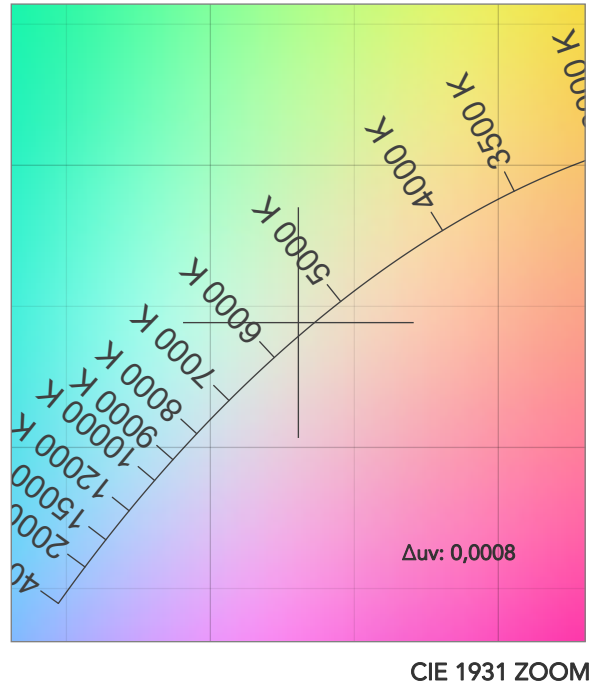
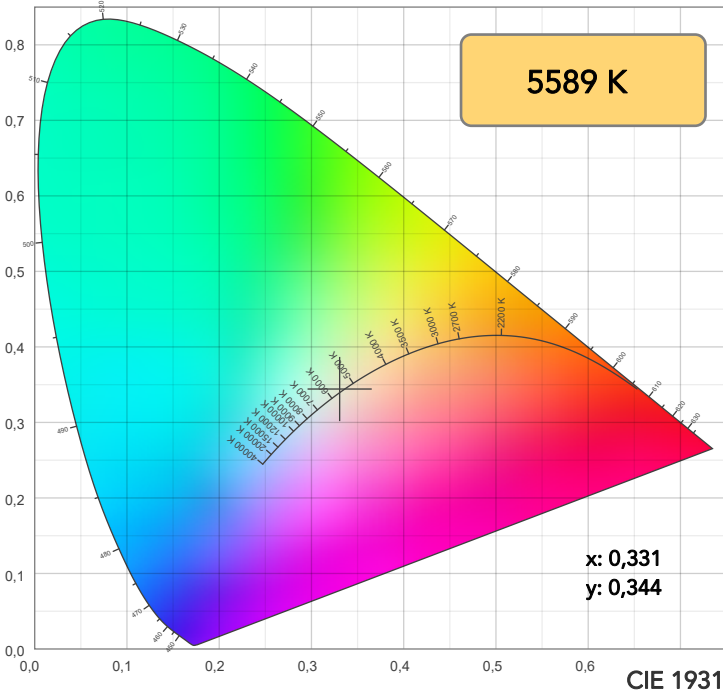


Beam angle 50%: 23,2°
Field angle 10%: 41,2°
Cut off angle 2.5%: 54°

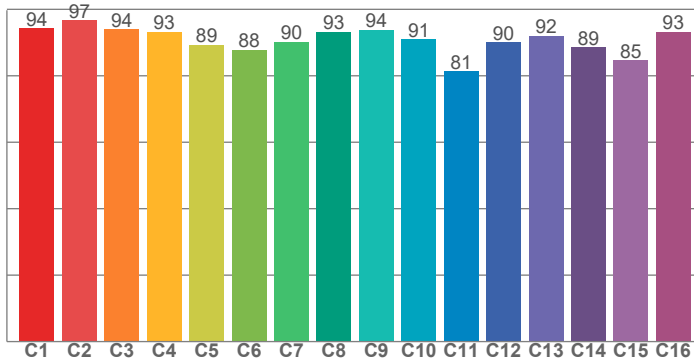
Spectra



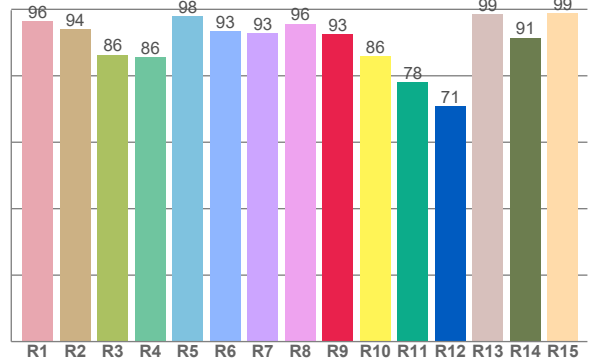
COLOR DETAILS



TM30: 90,7



CRI: 92,8 (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
96,4	94,1	86,3	85,6	97,8	93,4	92,7	95,7	92,5	85,9	78,1	70,9	98,5	91,5	98,9

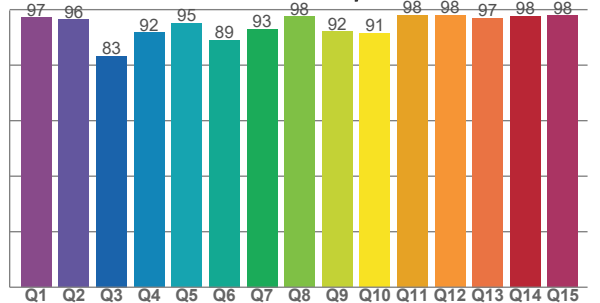
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	96,7	93,9	93,3	89,3	87,8	90,3	93,3	93,8	91,0	81,3	90,0	91,9	88,5	84,6	93,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,1	96,4	83,2	91,7	95,1	89,1	93,0	97,5	92,0	91,5	98,1	98,0	96,9	97,6	97,8

CQS: 93,0



COLOR PARAMETERS

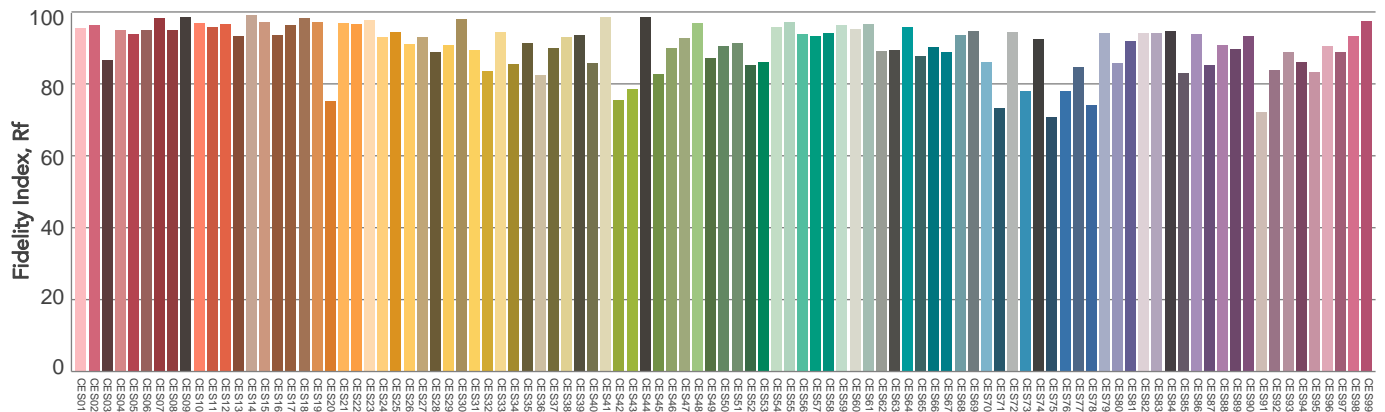
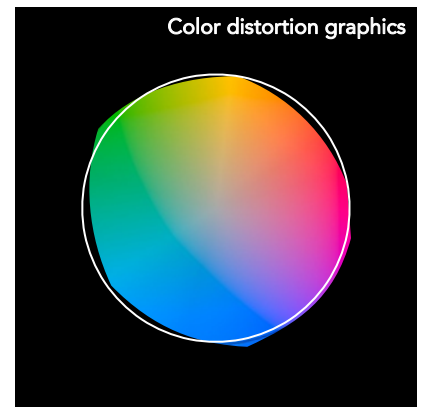
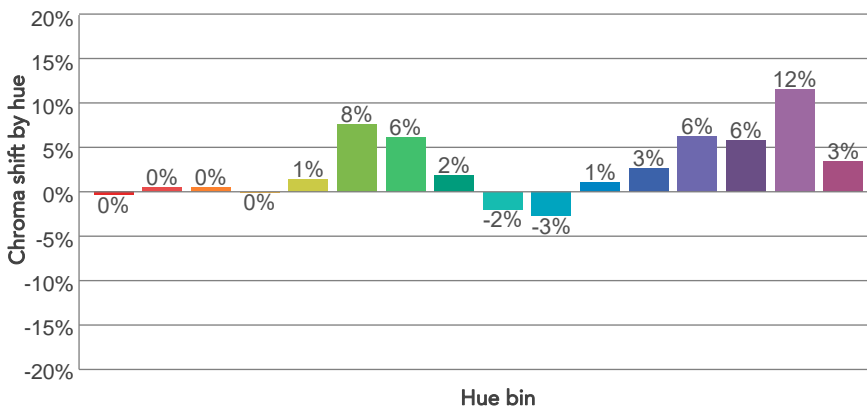
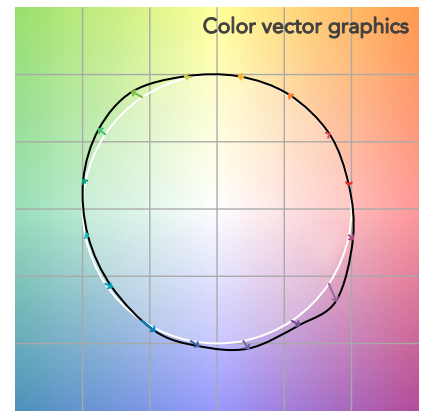
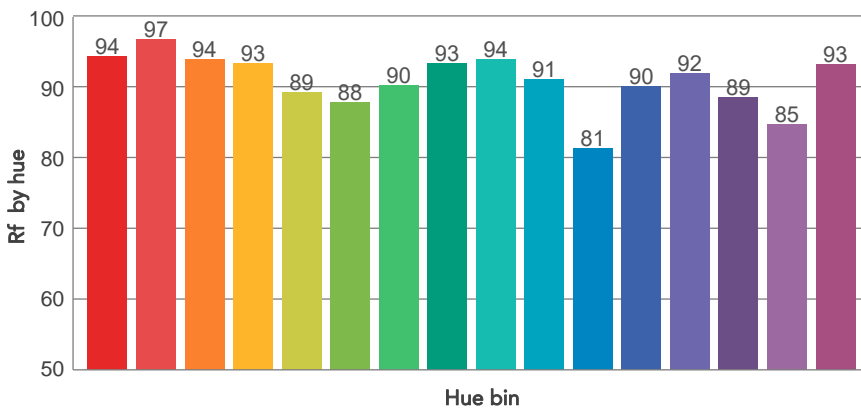
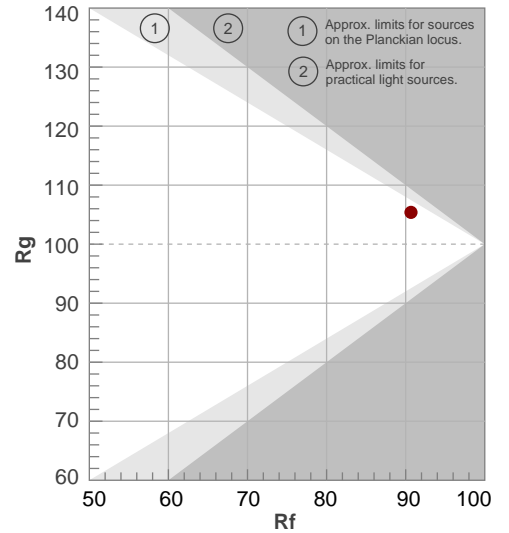
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5589 K	92,8	92,5	90,7	105,4	93,0	89	0,331	0,344	0,0008

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 105,4
Gammut index

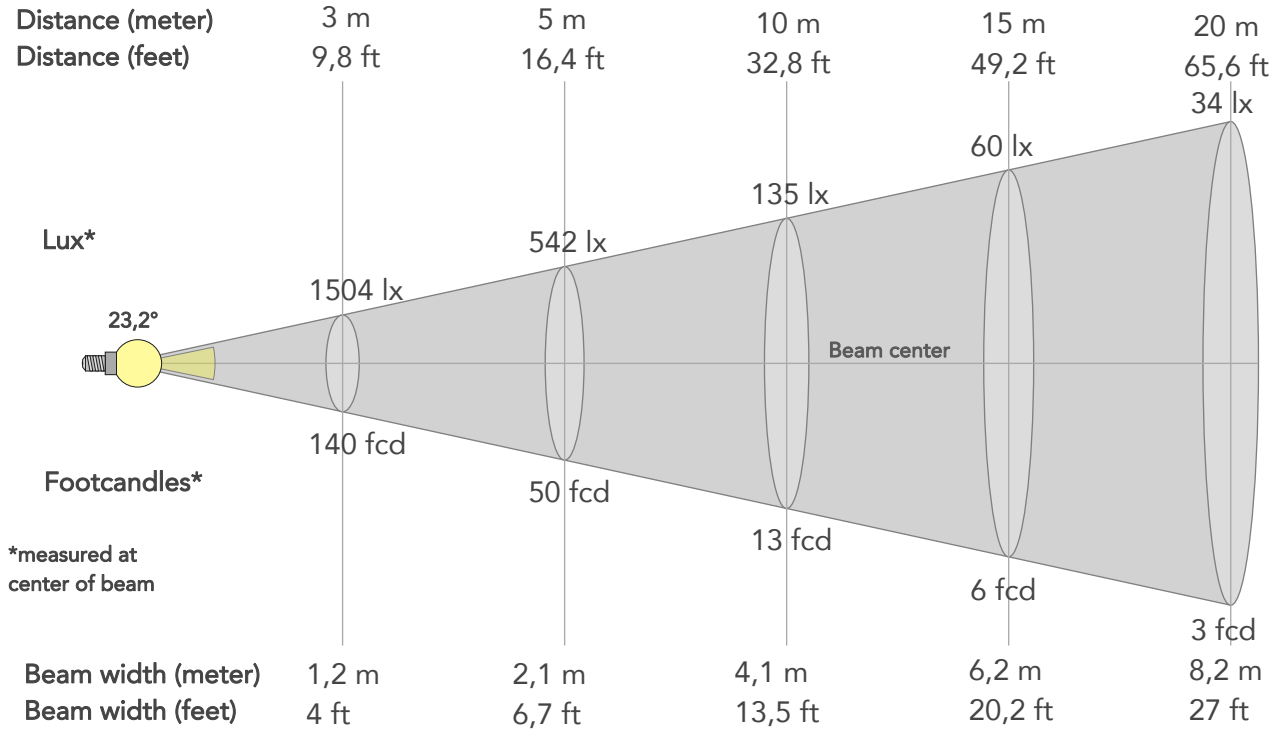
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	94	0%	3%
4	93	0%	3%
5	89	1%	4%
6	88	8%	4%
7	90	6%	0%
8	93	2%	-2%
9	94	-2%	1%
10	91	-3%	5%
11	81	1%	12%
12	90	3%	6%
13	92	6%	3%
14	89	6%	3%
15	85	12%	-7%
16	93	3%	-2%



BEAM DETAILS



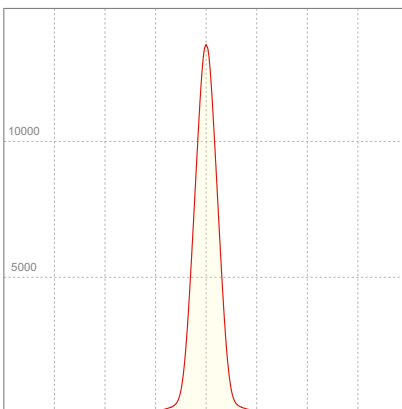
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,2°	41,2°	54°	98,2%	95,1%



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	13538lx	3385lx	1504lx	846lx	542lx	241lx	135lx	60lx	34lx	22lx	15lx	8lx	5lx
Footcand.	1258fcd	314fcd	140fcd	79fcd	50fcd	22fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2,1m	3,1m	4,1m	6,2m	8,2m	10,3m	12,3m	16,4m	20,5m
Beam wid.	1,4ft	2,7ft	4ft	5,4ft	6,7ft	10,1ft	13,5ft	20,2ft	27ft	33,7ft	40,4ft	53,9ft	67,4ft

LINEAR DISTRIBUTION DIAGRAM

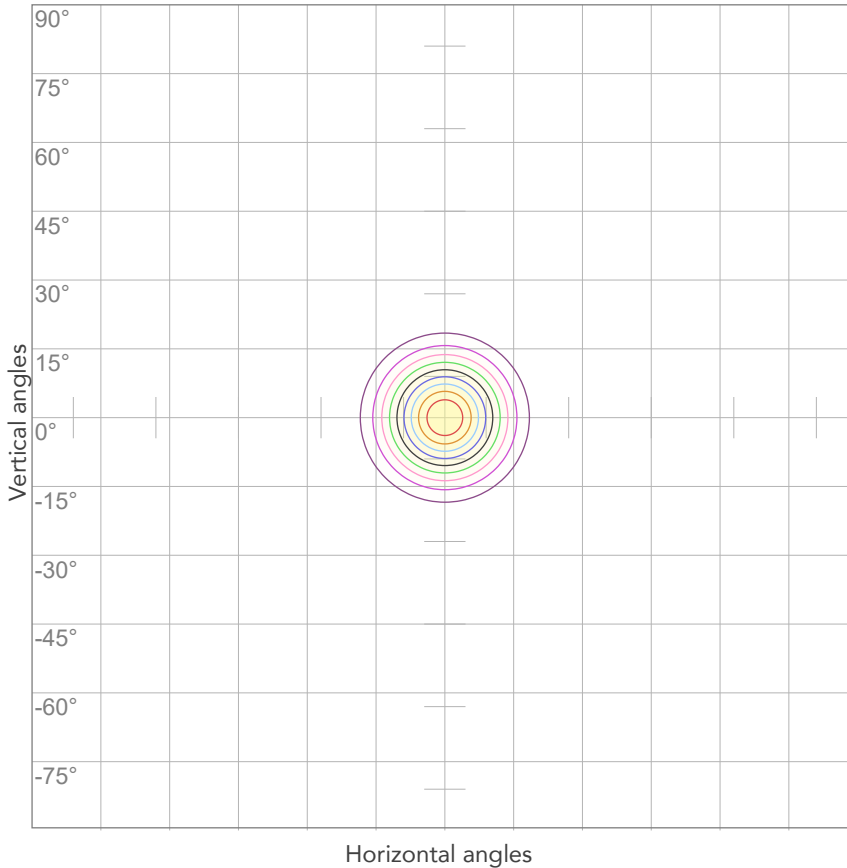


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,278A	58,6W	0,93	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



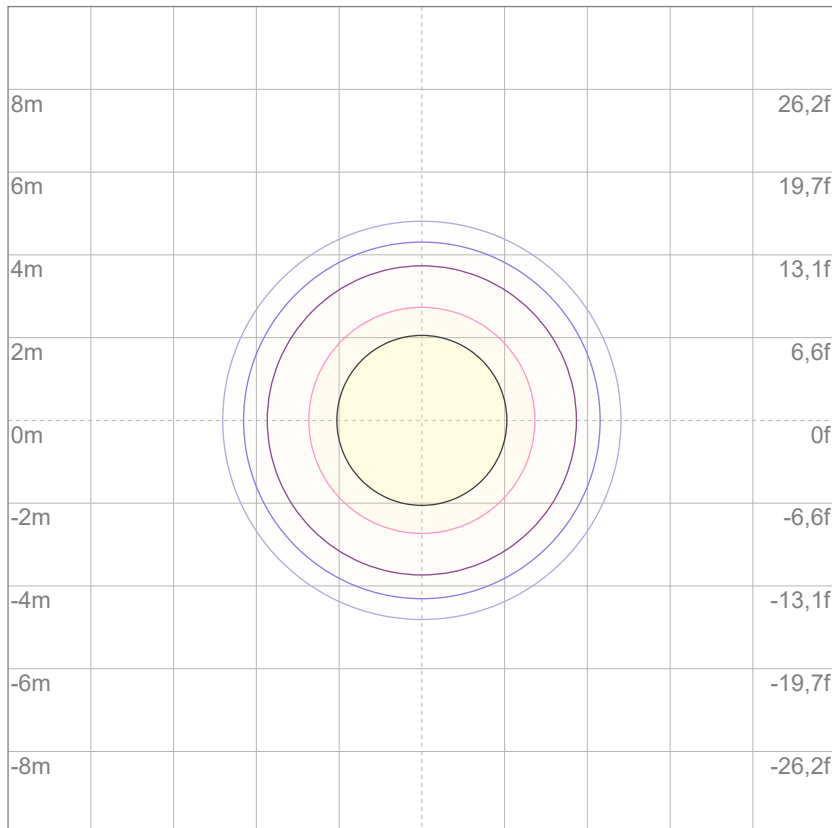
10%	1354 cd
20%	2708 cd
30%	4061 cd
40%	5415 cd
50%	6769 cd
60%	8123 cd
70%	9477 cd
80%	10830 cd

Conditions:

Number of c-planes: 2

Candela at center: 13538 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,06 lx
5%	6,77 lx
10%	13,5 lx
30%	40,6 lx
50%	67,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 135 lx

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



Total lumen output:

2669 lm

Peak candela output:

4502 cd

Light quality:

CRI: 92,9

Color temperature:

5606 K

PRODUCT NAME:
ECLPENDANTS FC

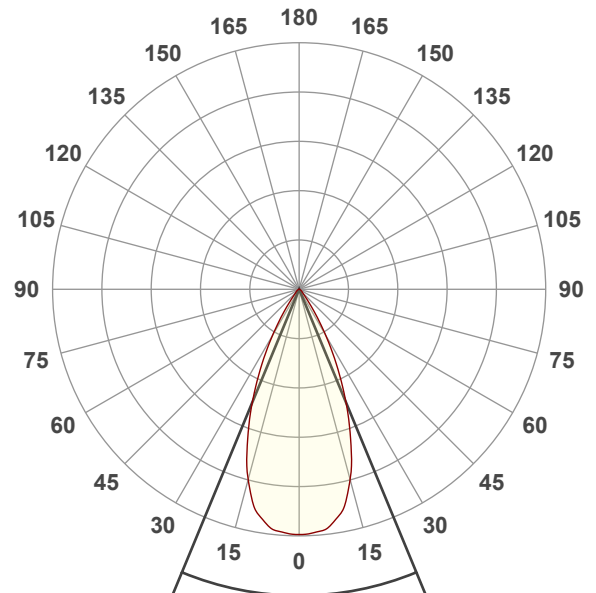
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
5600K

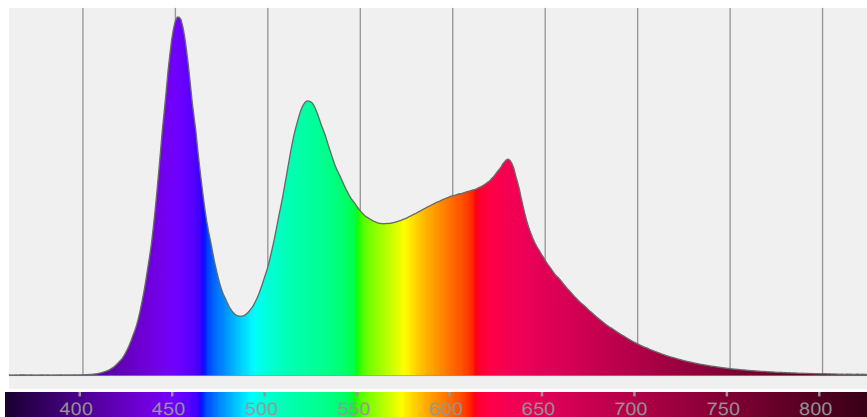
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:26:30

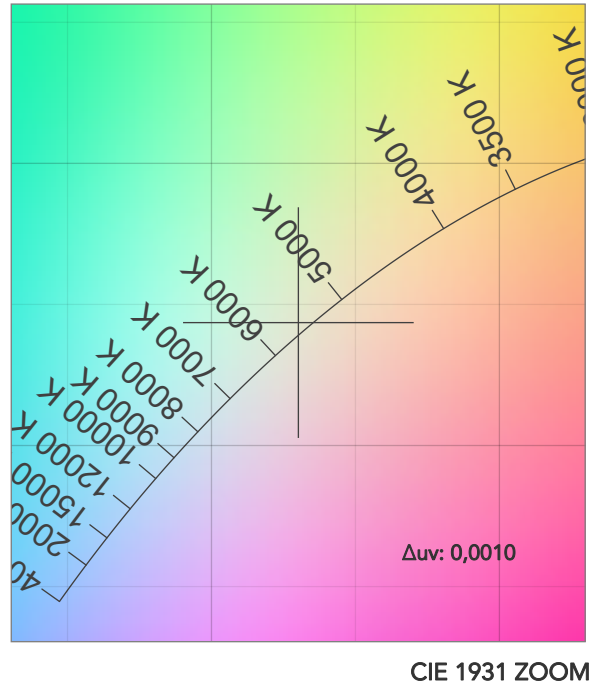
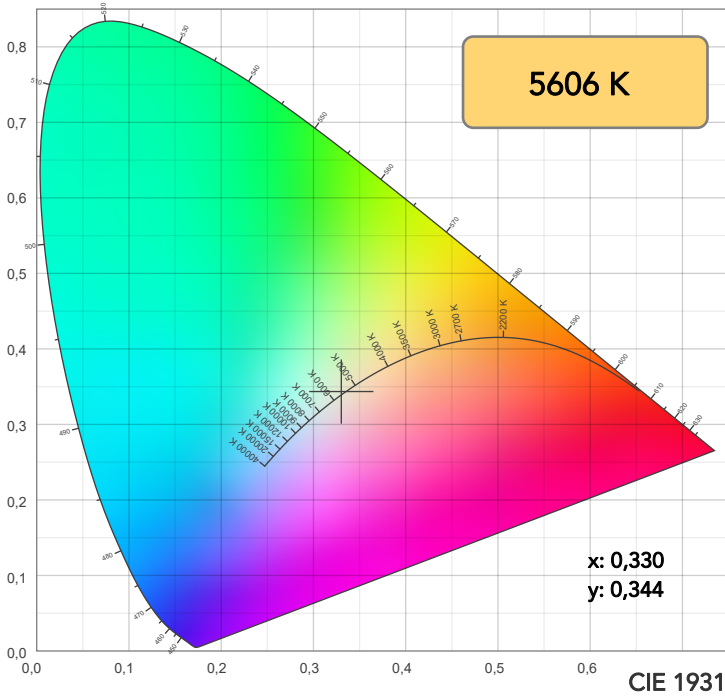


Beam angle 50%: 45°
Field angle 10%: 69,2°
Cut off angle 2.5%: 86°

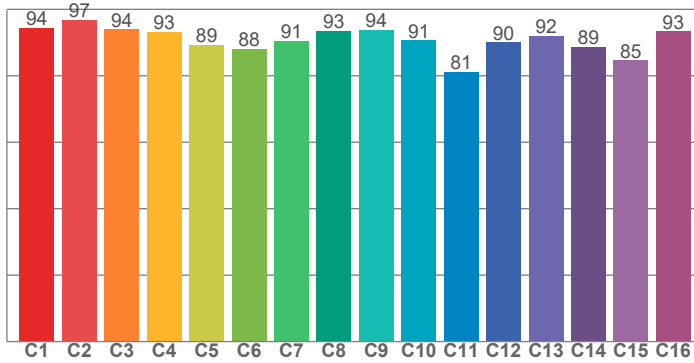
Spectra



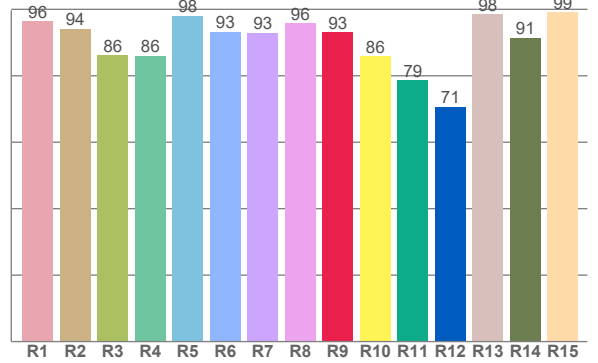
COLOR DETAILS



TM30: 90,7



CRI: 92,9 (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
96,4	94,2	86,3	86,0	98,0	93,3	92,9	95,8	93,2	85,8	78,6	70,7	98,5	91,4	99,0

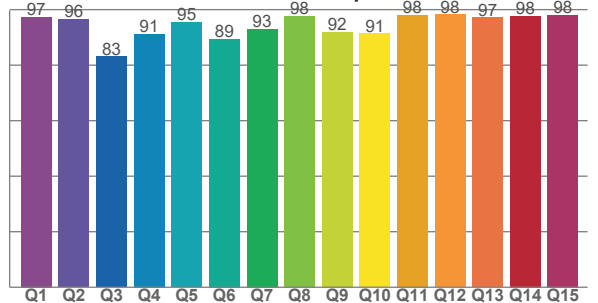
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	96,8	93,9	93,2	89,3	88,1	90,6	93,5	93,8	90,7	81,2	90,0	92,0	88,6	84,6	93,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	96,5	83,1	91,2	95,4	89,5	93,0	97,6	91,9	91,3	98,1	98,2	97,1	97,7	98,0

CQS: 93,0



COLOR PARAMETERS

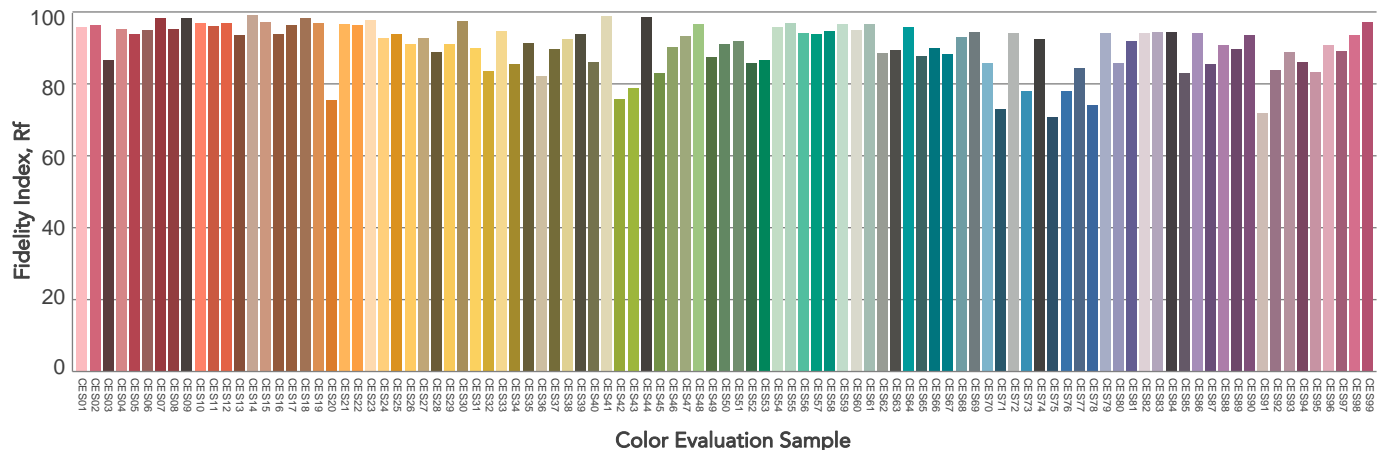
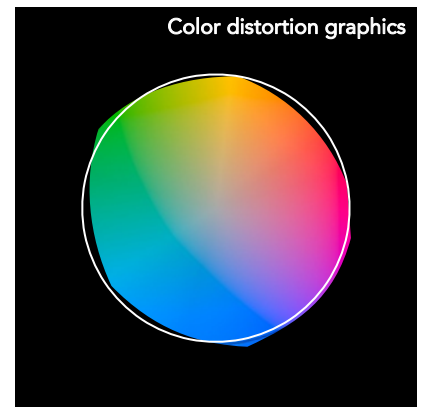
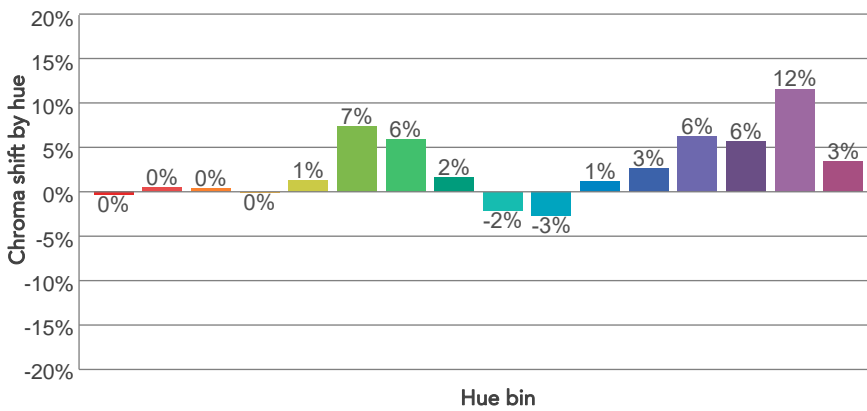
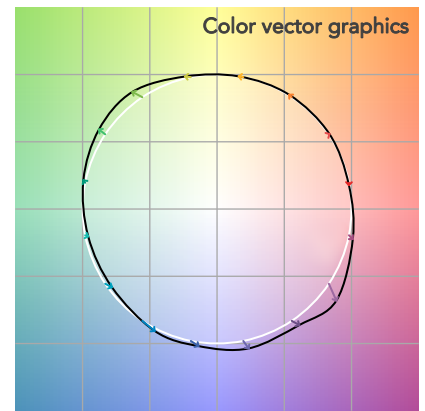
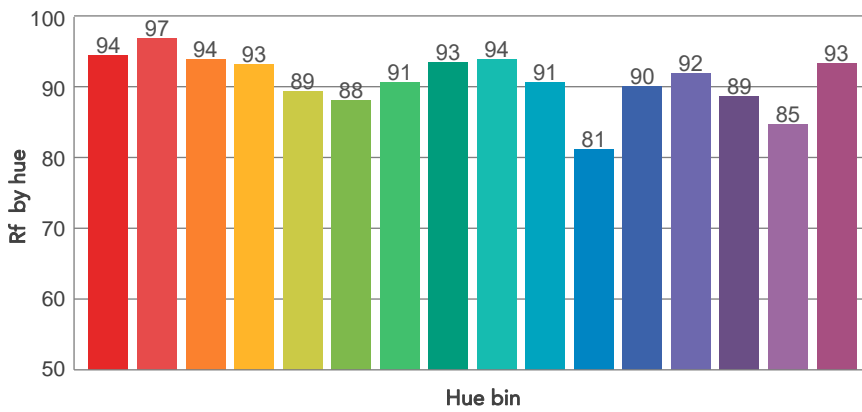
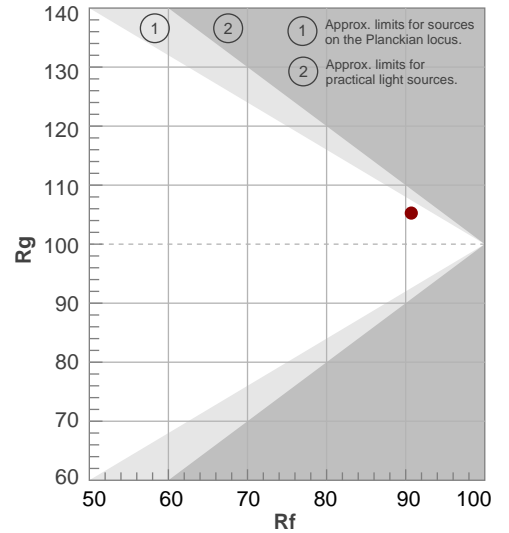
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5606 K	92,9	93,2	90,7	105,3	93,0	90	0,330	0,344	0,0010

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 105,3
Gammut index

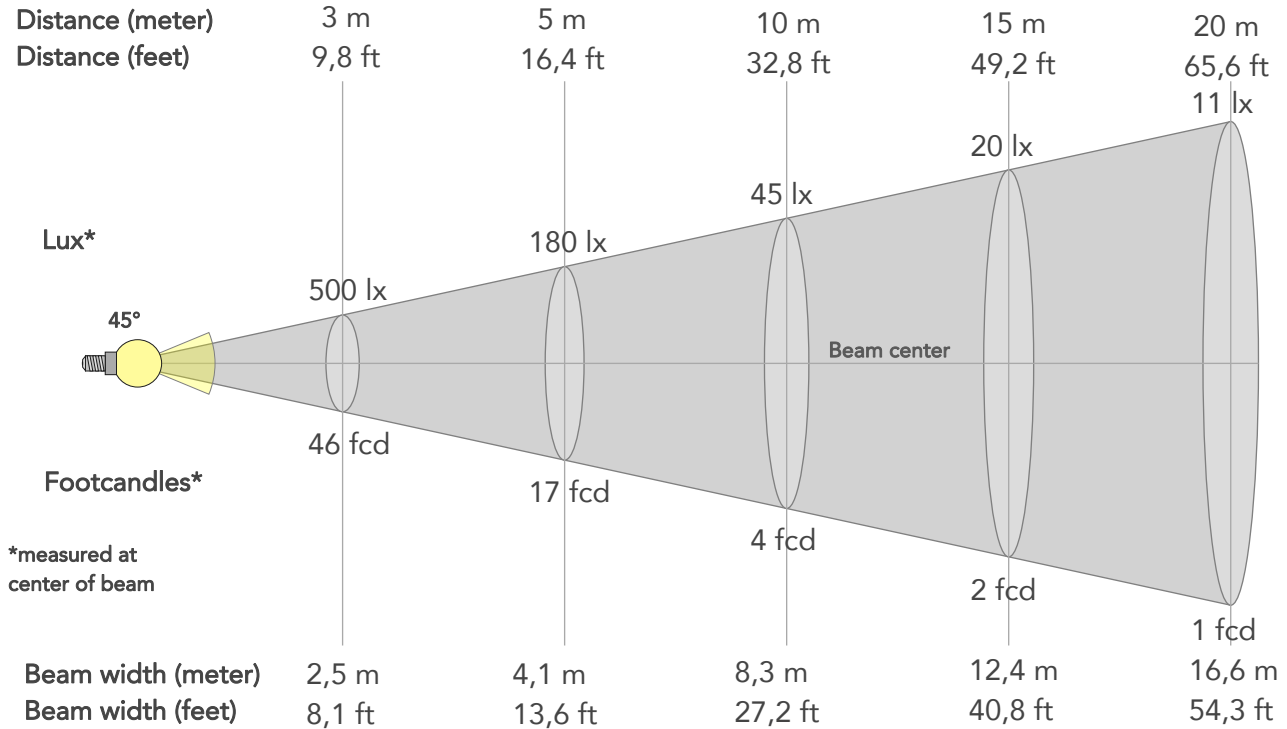
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	94	0%	3%
4	93	0%	3%
5	89	1%	4%
6	88	7%	4%
7	91	6%	0%
8	93	2%	-2%
9	94	-2%	1%
10	91	-3%	5%
11	81	1%	12%
12	90	3%	6%
13	92	6%	3%
14	89	6%	3%
15	85	12%	-7%
16	93	3%	-2%



BEAM DETAILS



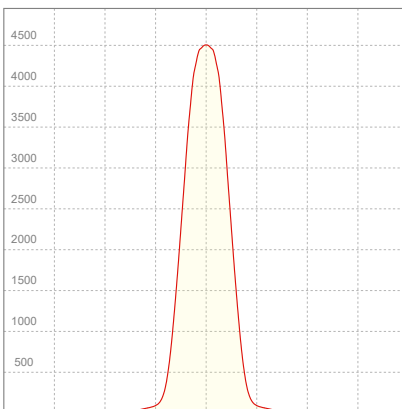
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45°	69,2°	86°	98,4%	95,4%



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	4502lx	1125lx	500lx	281lx	180lx	80lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	418fcd	105fcd	46fcd	26fcd	17fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,7m	2,5m	3,3m	4,1m	6,2m	8,3m	12,4m	16,6m	20,7m	24,9m	33,1m	41,4m
Beam wid.	2,7ft	5,5ft	8,1ft	10,9ft	13,6ft	20,4ft	27,2ft	40,8ft	54,3ft	67,9ft	81,5ft	108,7ft	135,9ft

LINEAR DISTRIBUTION DIAGRAM

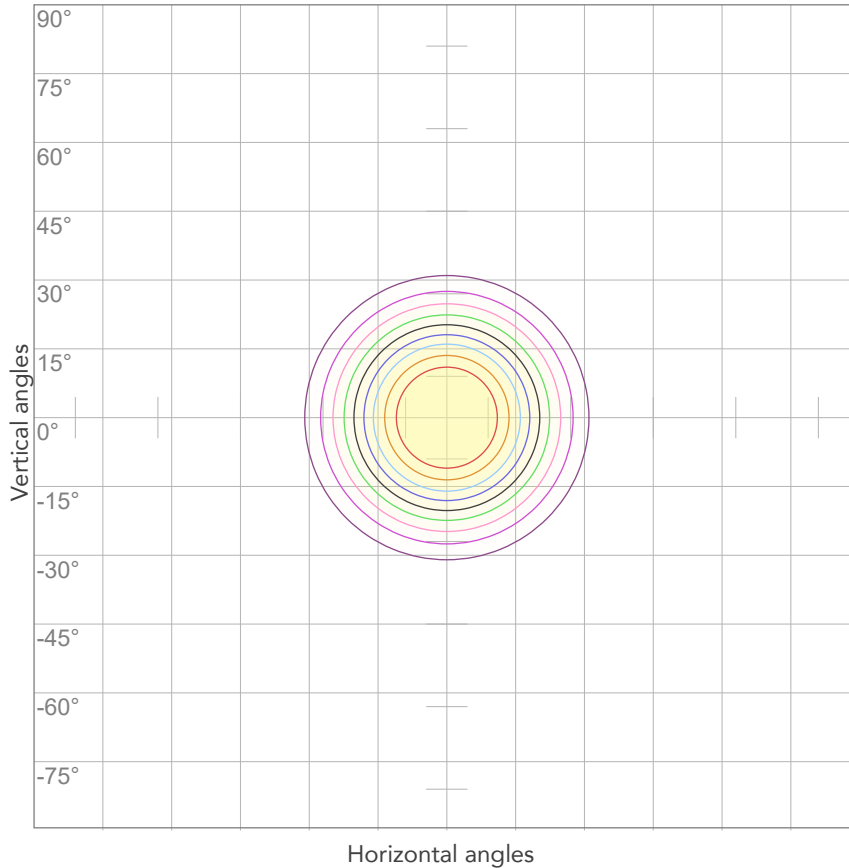


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,276A	57,9W	0,93	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



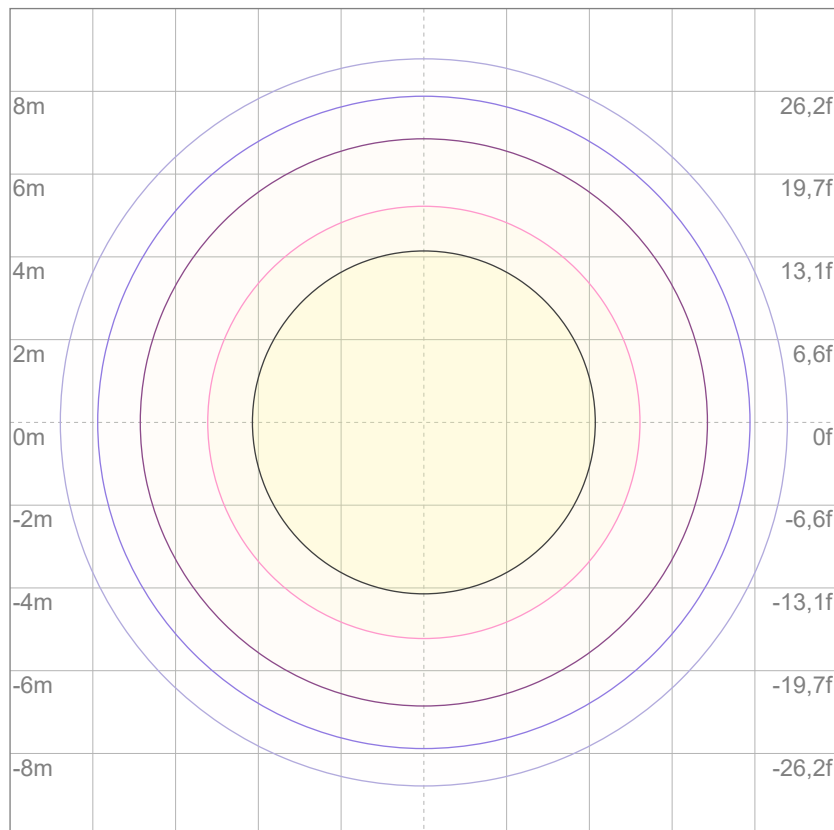
10%	450 cd
20%	900 cd
30%	1350 cd
40%	1801 cd
50%	2251 cd
60%	2701 cd
70%	3151 cd
80%	3601 cd

Conditions:

Number of c-planes: 2

Candela at center: 4502 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,35 lx
5%	2,25 lx
10%	4,50 lx
30%	13,5 lx
50%	22,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,0 lx

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



Total lumen output:

2512 lm

Peak candela output:

2232 cd

Light quality:

CRI: 92,8

Color temperature:

5581 K

PRODUCT NAME:
ECLPENDANTS FC

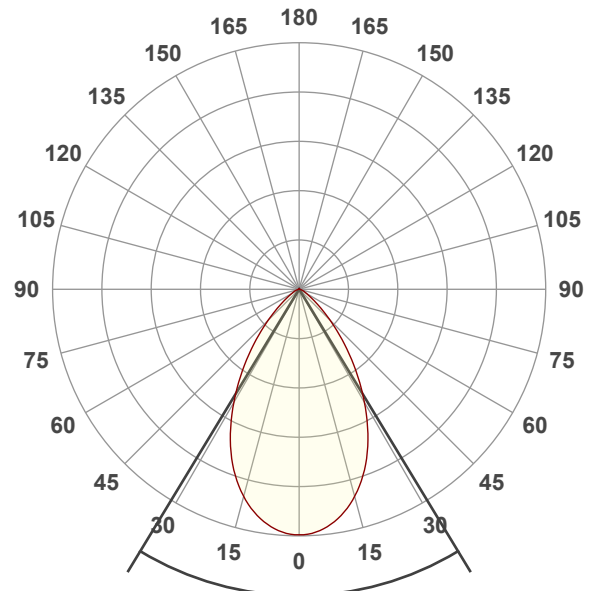
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
5600K

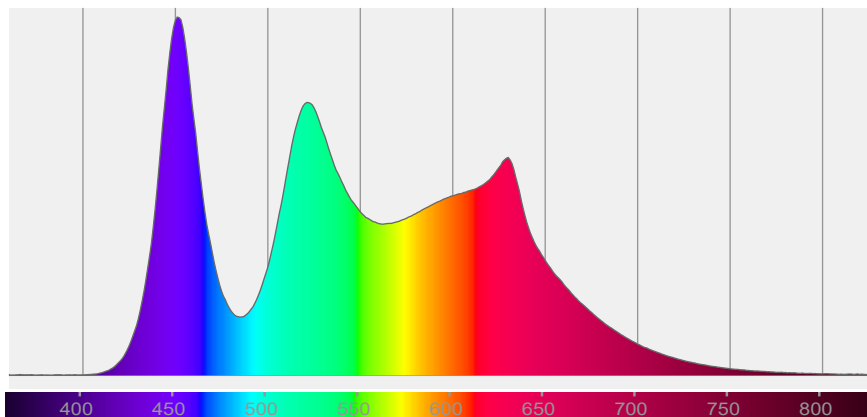
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:14:09

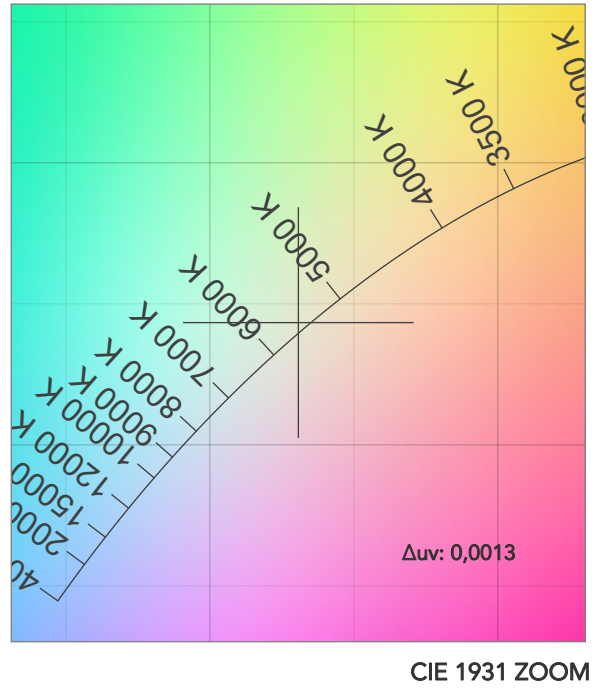
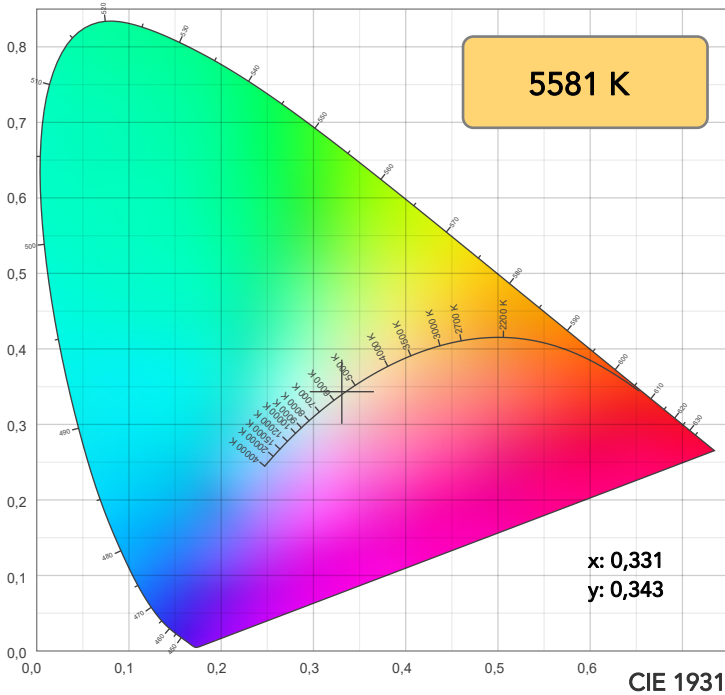


Beam angle 50%: 62,5°
Field angle 10%: 101°
Cut off angle 2.5%: 129,4°

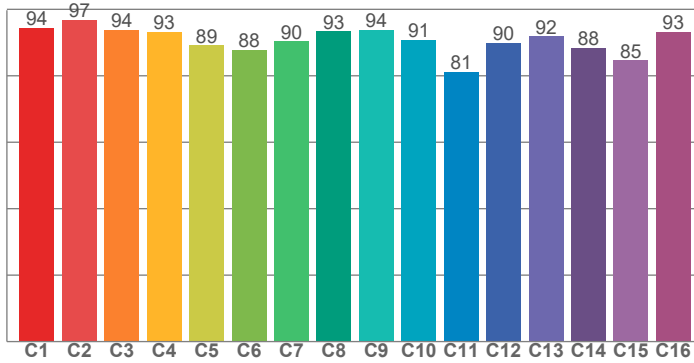
Spectra



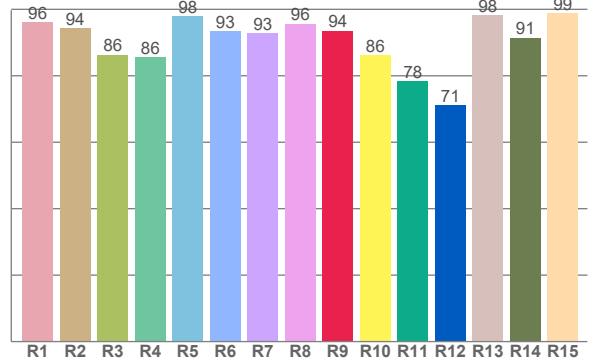
COLOR DETAILS



TM30: 90,7



CRI: 92,8 (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
96,2	94,3	86,3	85,7	97,8	93,4	92,8	95,7	93,6	86,2	78,3	71,2	98,3	91,4	98,9

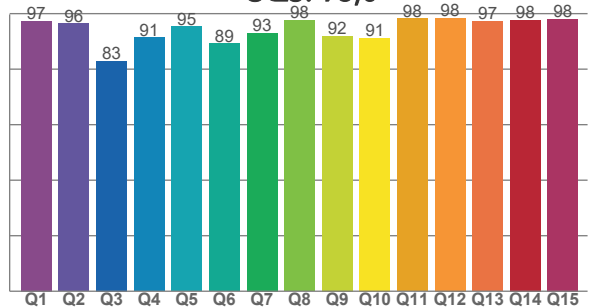
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	96,8	93,8	93,2	89,2	87,8	90,4	93,4	93,9	90,9	81,2	89,9	91,9	88,5	84,6	93,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	96,4	83,0	91,4	95,3	89,3	93,1	97,6	91,9	91,3	98,2	98,4	97,3	97,6	98,0

CQS: 93,0



COLOR PARAMETERS

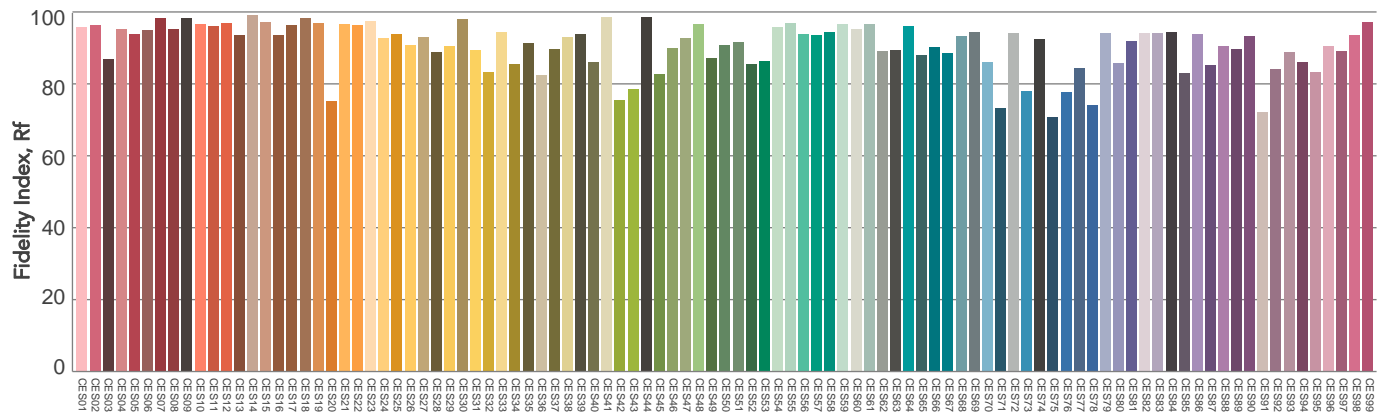
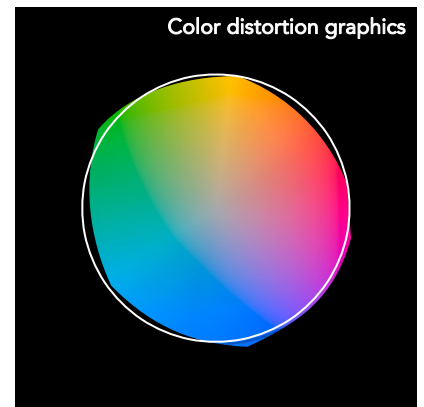
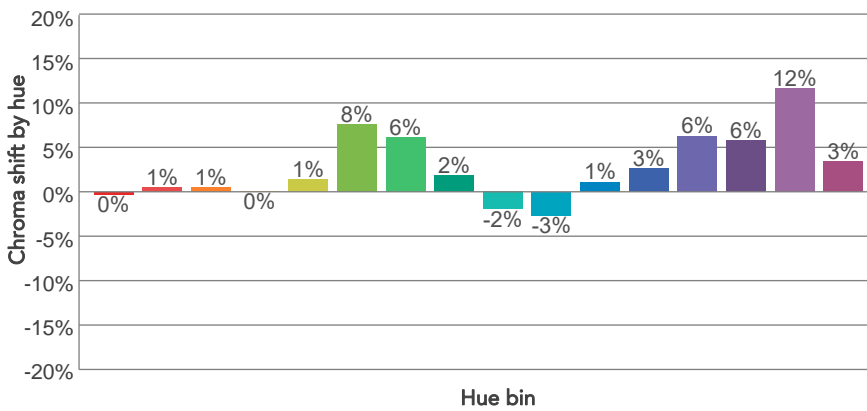
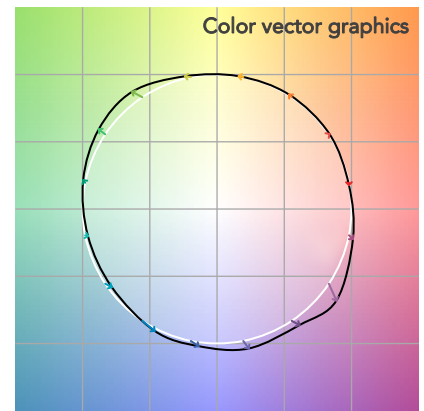
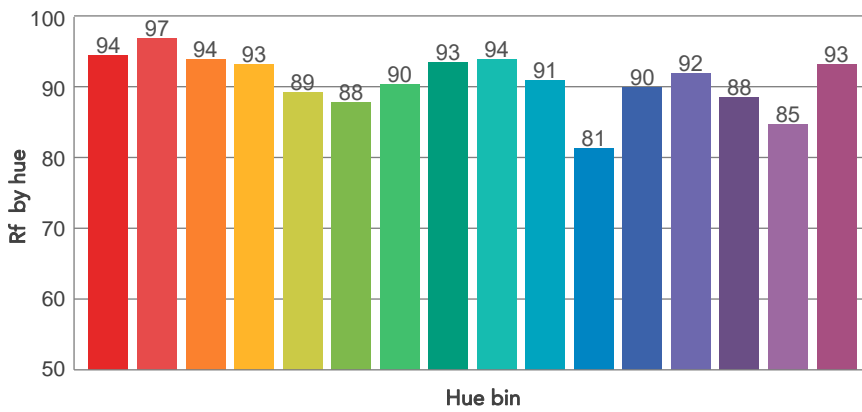
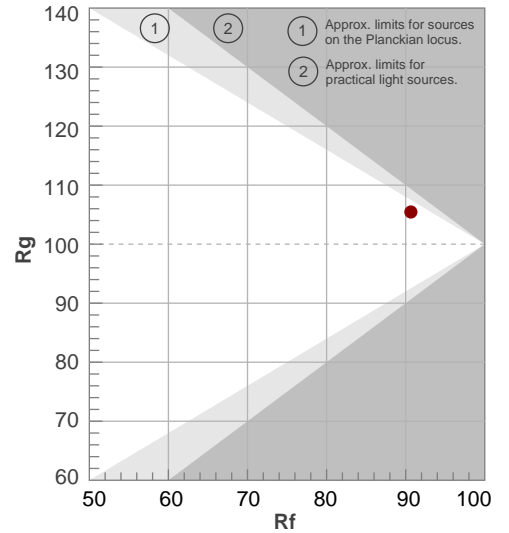
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5581 K	92,8	93,6	90,7	105,4	93,0	89	0,331	0,343	0,0013

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 105,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	1%	0%
3	94	1%	3%
4	93	0%	3%
5	89	1%	4%
6	88	8%	4%
7	90	6%	0%
8	93	2%	-2%
9	94	-2%	1%
10	91	-3%	5%
11	81	1%	12%
12	90	3%	6%
13	92	6%	3%
14	88	6%	3%
15	85	12%	-7%
16	93	3%	-2%

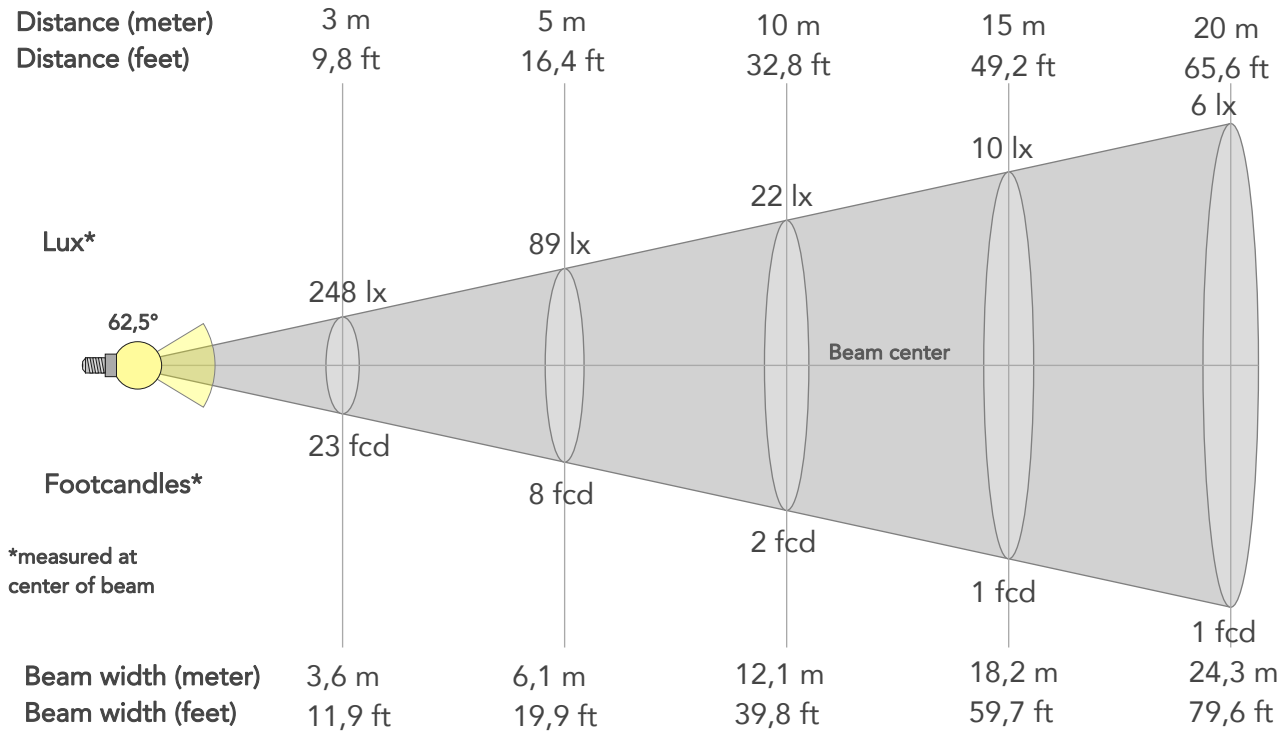


Color Evaluation Sample

BEAM DETAILS



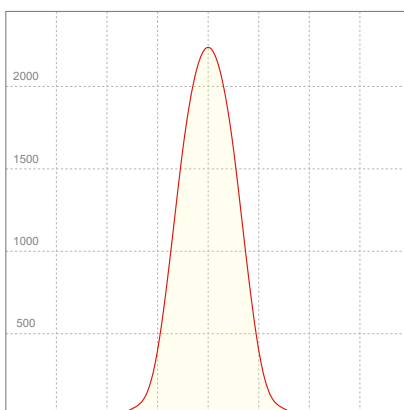
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,5°	101°	129,4°	96,6%	86,7%



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	2232lx	558lx	248lx	139lx	89lx	40lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	207fcd	52fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,9m	6,1m	9,1m	12,1m	18,2m	24,3m	30,3m	36,4m	48,5m	60,7m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,8ft	39,8ft	59,7ft	79,6ft	99,5ft	119,4ft	159,2ft	199ft

LINEAR DISTRIBUTION DIAGRAM

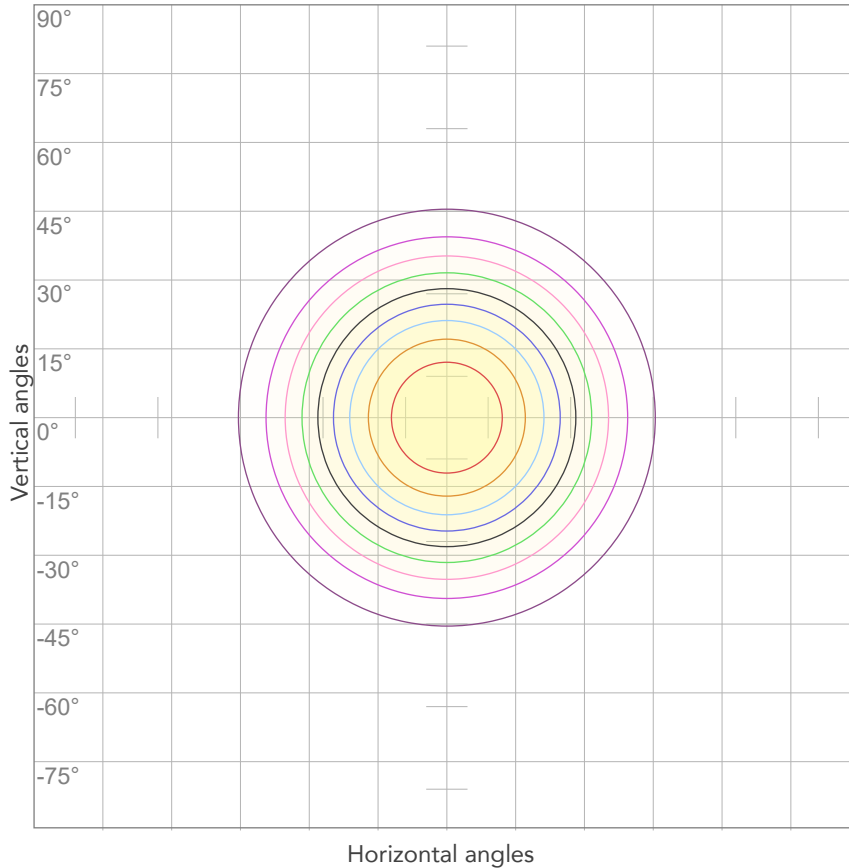


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,276A	58,2W	0,93	43lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



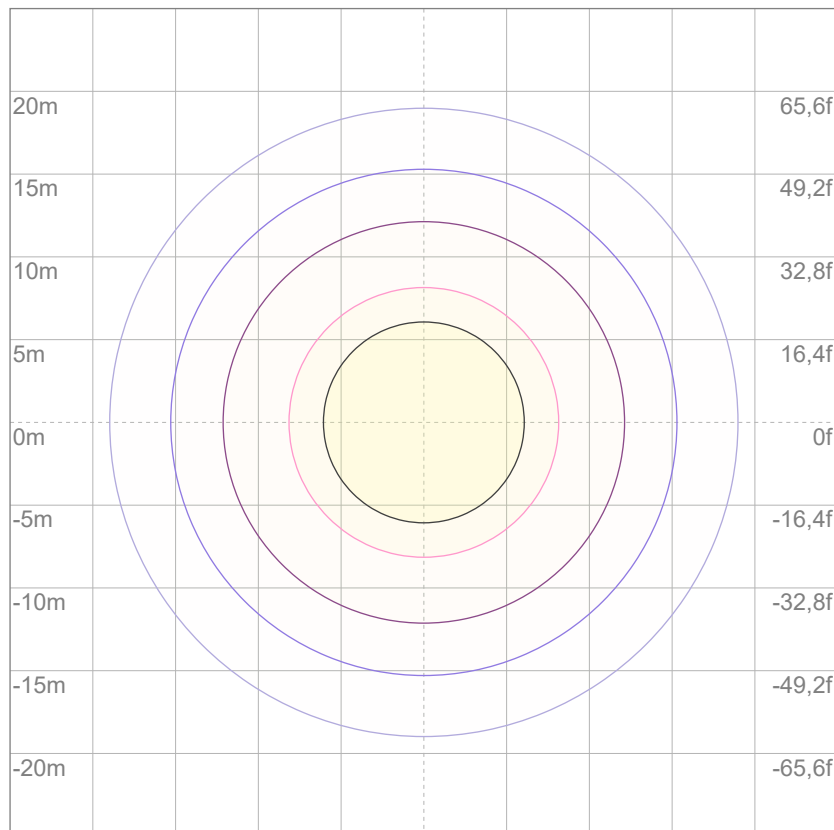
10%	223 cd
20%	446 cd
30%	670 cd
40%	893 cd
50%	1116 cd
60%	1339 cd
70%	1562 cd
80%	1785 cd

Conditions:

Number of c-planes: 2

Candela at center: 2232 cd

ISO LUX DIAGRAM



3%	0,670 lx
5%	1,12 lx
10%	2,23 lx
30%	6,70 lx
50%	11,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,3 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2678 lm

Peak candela output:

13464 cd

Light quality:

CRI: 92,7

Color temperature:

6076 K

PRODUCT NAME:
ECLPENDANTS FC

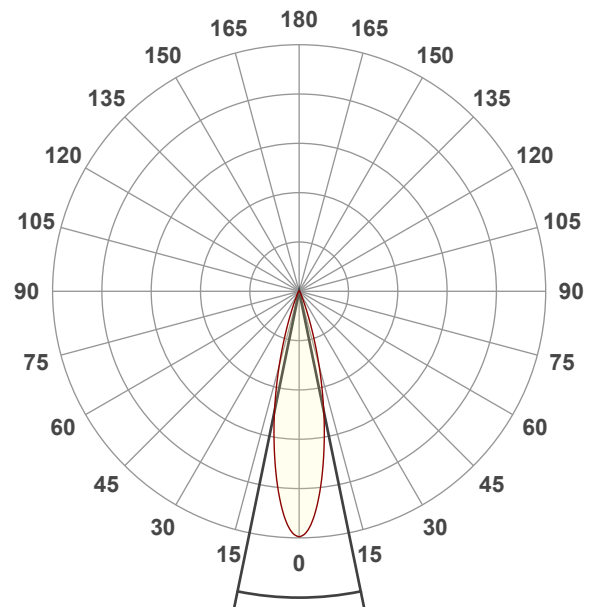
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
6000K

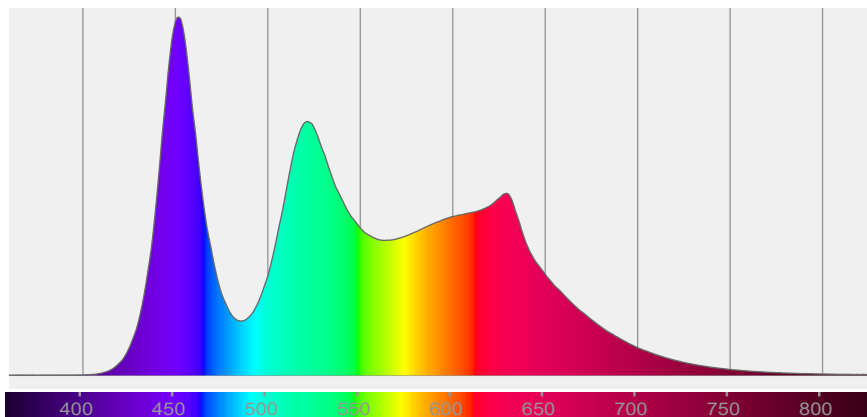
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:54:43

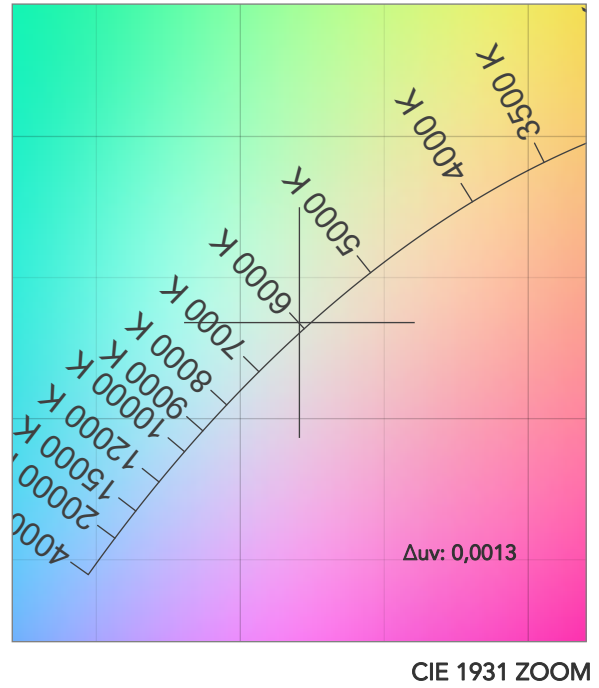
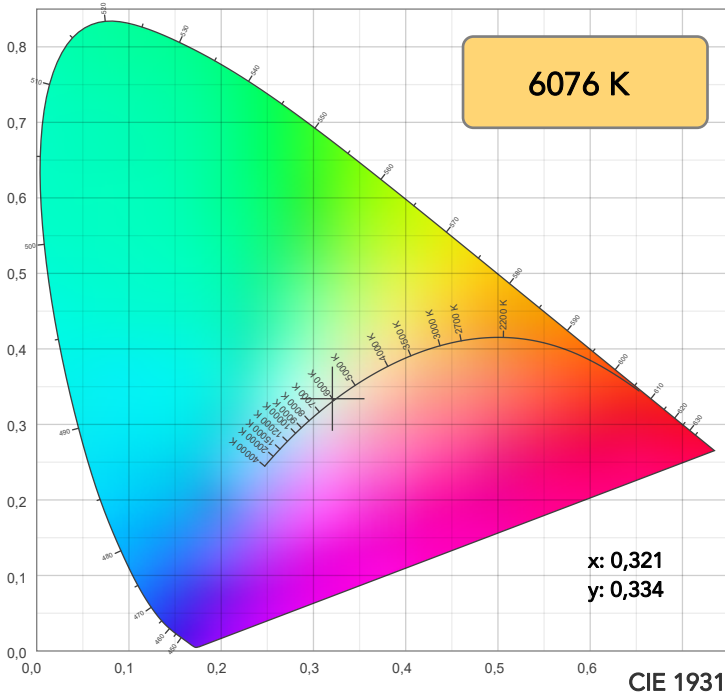


Beam angle 50%: 23,2°
Field angle 10%: 41°
Cut off angle 2.5%: 54°

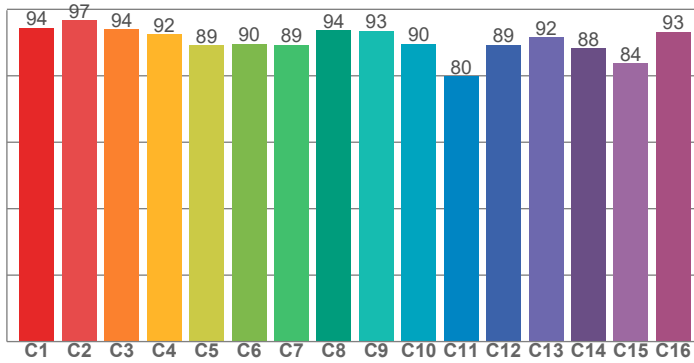
Spectra



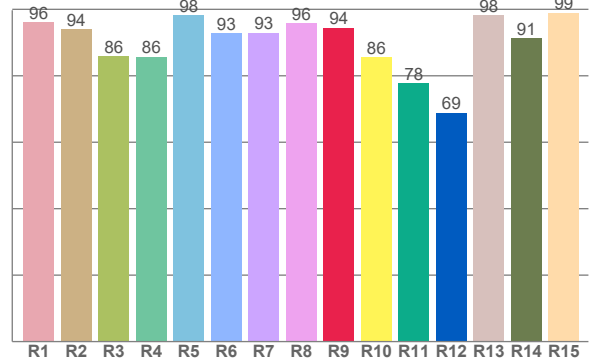
COLOR DETAILS



TM30: 90,4



CRI: 92,7 (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
96,1	94,1	85,8	85,7	98,3	92,9	92,9	95,8	94,5	85,6	77,8	68,8	98,2	91,2	98,9

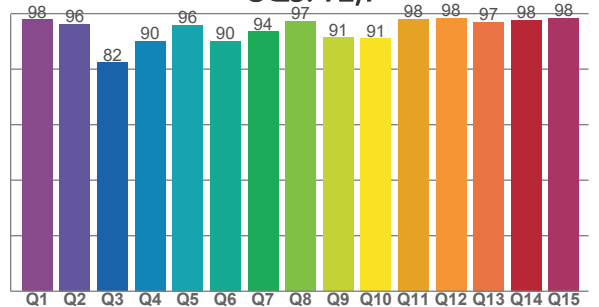
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	96,7	94,0	92,5	89,2	89,6	89,2	93,6	93,5	89,7	79,8	89,3	91,5	88,2	83,7	93,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,9	96,3	82,4	90,2	96,0	90,1	93,5	97,2	91,4	91,0	98,1	98,3	97,1	97,7	98,4

CQS: 92,9



COLOR PARAMETERS

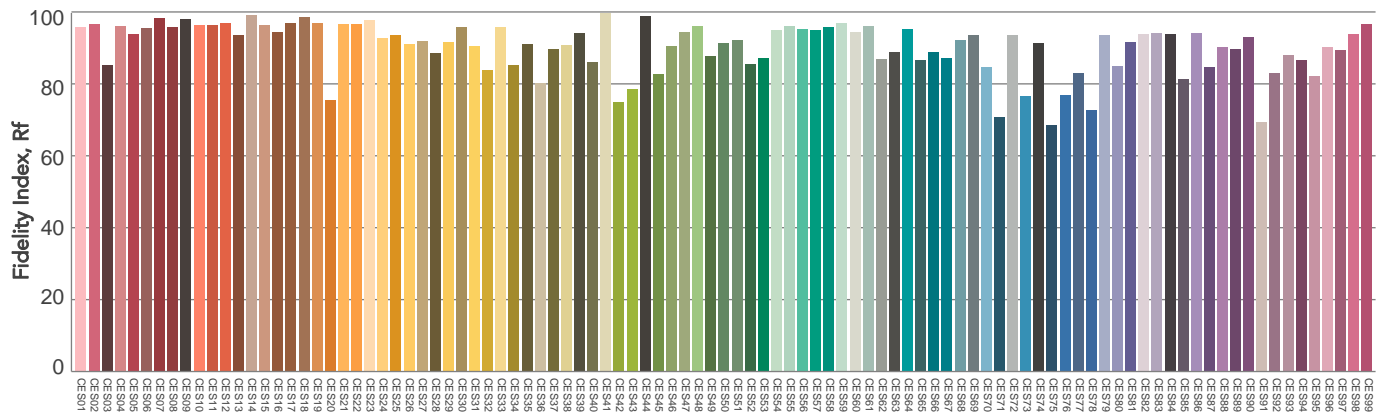
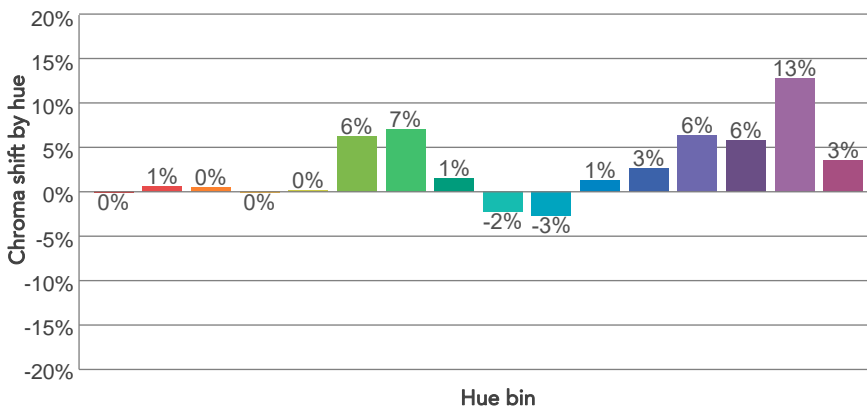
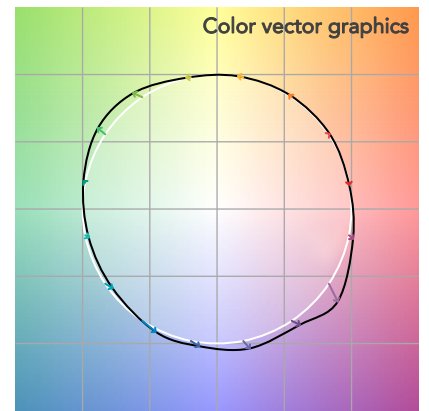
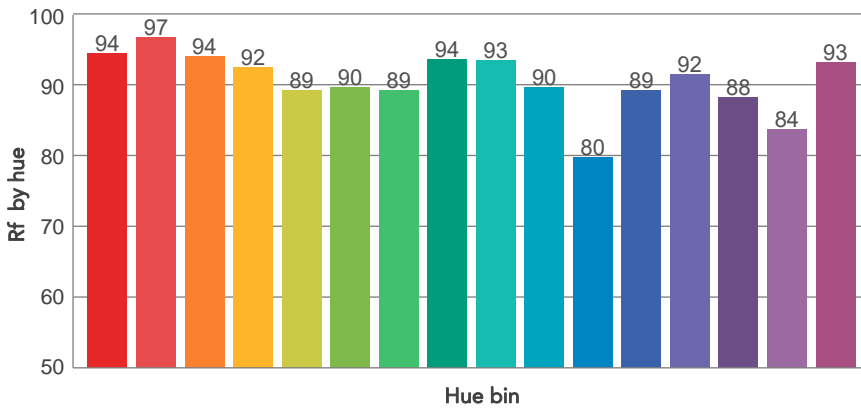
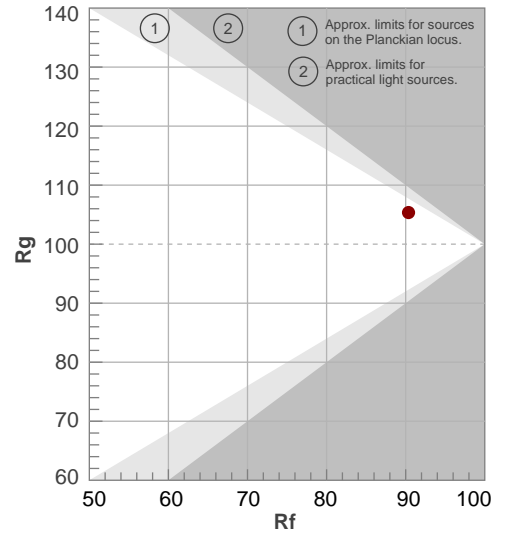
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6076 K	92,7	94,5	90,4	105,4	92,9	90	0,321	0,334	0,0013

TM30 DETAILS

Rf 90,4
Fidelity index Rf

Rg 105,4
Gammut index

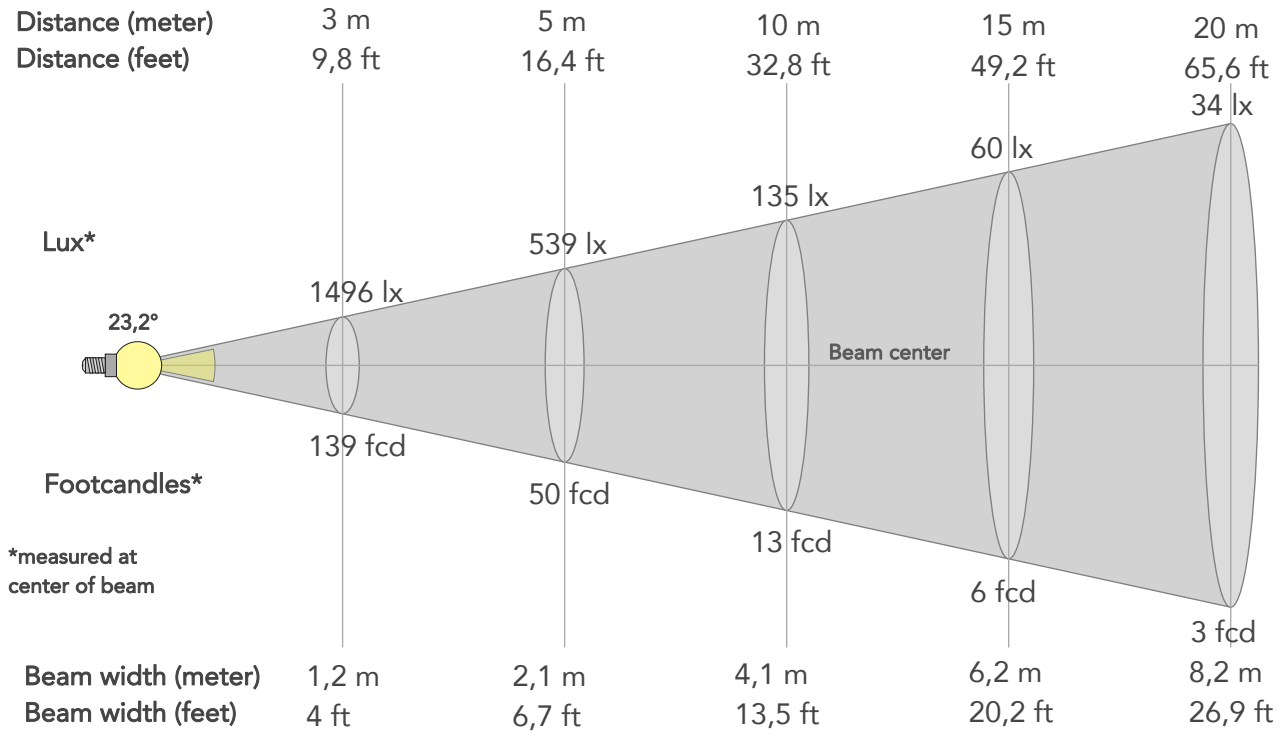
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	1%	0%
3	94	0%	2%
4	92	0%	4%
5	89	0%	3%
6	90	6%	4%
7	89	7%	-1%
8	94	1%	-1%
9	93	-2%	2%
10	90	-3%	6%
11	80	1%	13%
12	89	3%	7%
13	92	6%	4%
14	88	6%	3%
15	84	13%	-7%
16	93	3%	-2%



BEAM DETAILS



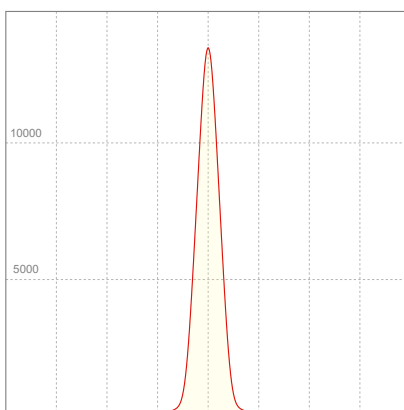
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,2°	41°	54°	98,2%	95,0%



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	13464lx	3366lx	1496lx	842lx	539lx	239lx	135lx	60lx	34lx	22lx	15lx	8lx	5lx
Footcand.	1251fcd	313fcd	139fcd	78fcd	50fcd	22fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2,1m	3,1m	4,1m	6,2m	8,2m	10,3m	12,3m	16,4m	20,5m
Beam wid.	1,4ft	2,7ft	4ft	5,4ft	6,7ft	10,1ft	13,5ft	20,2ft	26,9ft	33,7ft	40,4ft	53,9ft	67,4ft

LINEAR DISTRIBUTION DIAGRAM

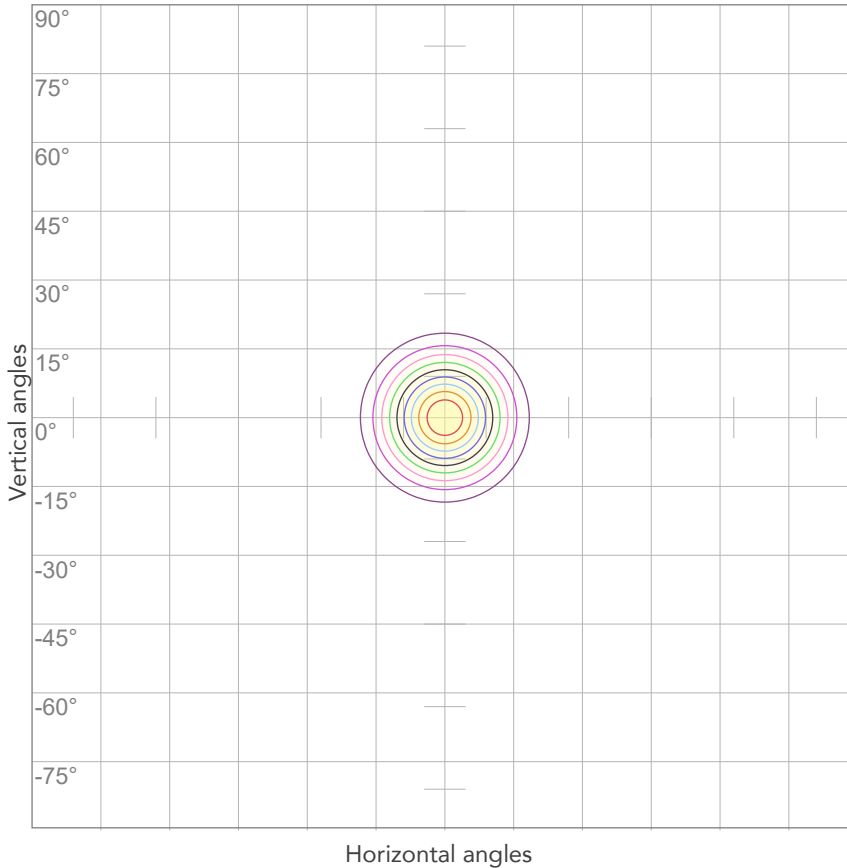


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,278A	58,6W	0,93	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



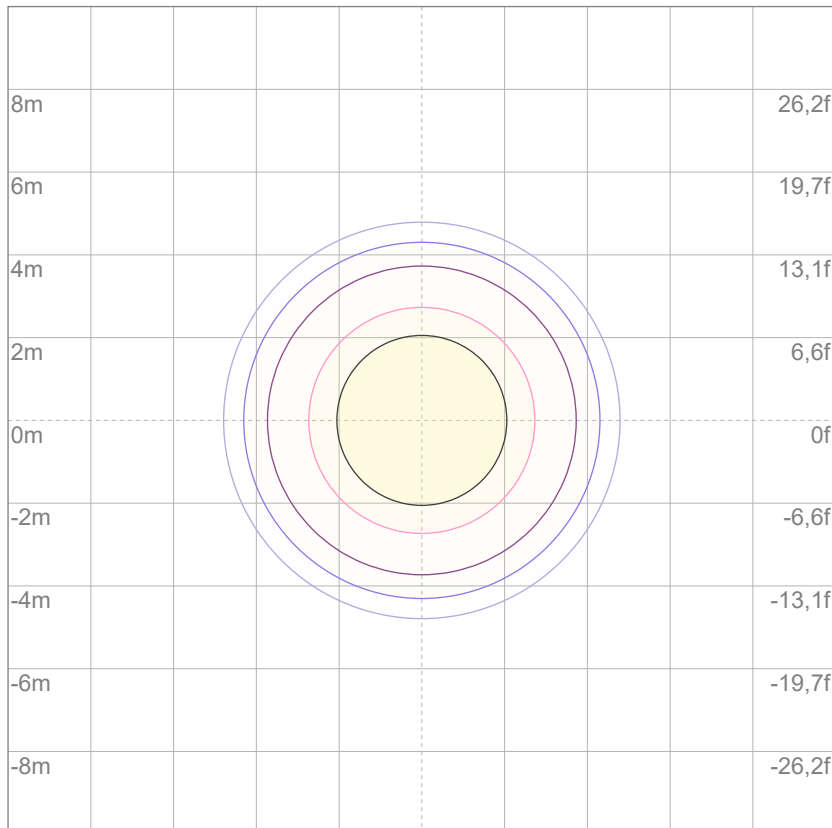
10%	1346 cd
20%	2693 cd
30%	4039 cd
40%	5386 cd
50%	6732 cd
60%	8079 cd
70%	9425 cd
80%	10771 cd

Conditions:

Number of c-planes: 2

Candela at center: 13464 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,04 lx
5%	6,73 lx
10%	13,5 lx
30%	40,4 lx
50%	67,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 135 lx

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



Total lumen output:

2678 lm

Peak candela output:

13464 cd

Light quality:

CRI: 92,7

Color temperature:

6076 K

PRODUCT NAME:
ECLPENDANTS FC

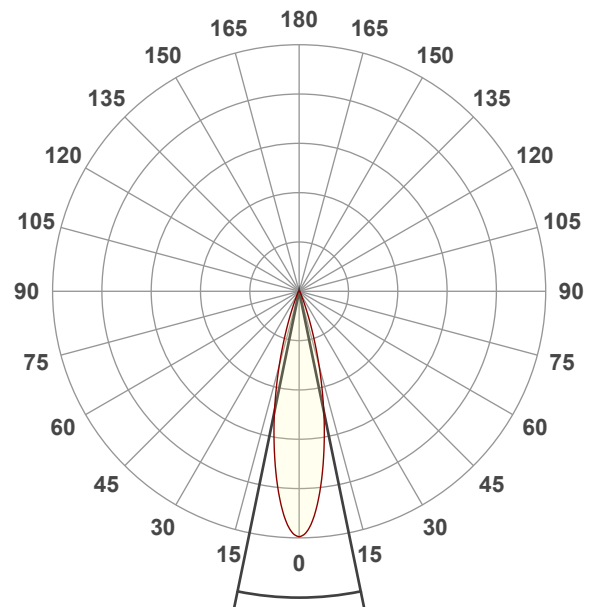
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
6000K

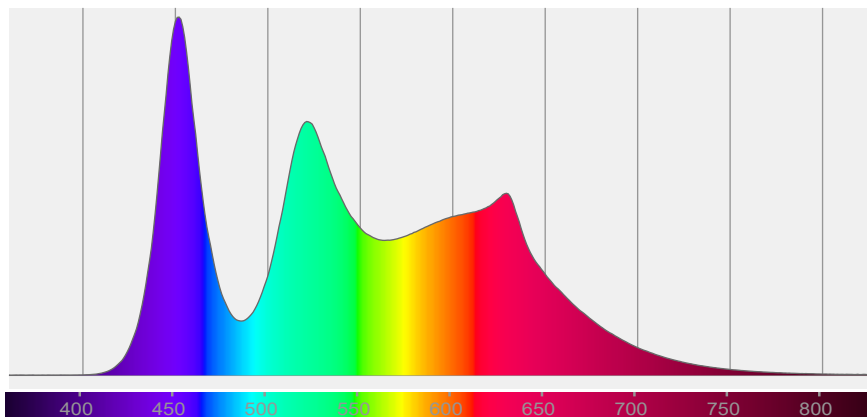
Operator:
Salvatore Giglio

Date and time:
06/02/2024 10:54:43

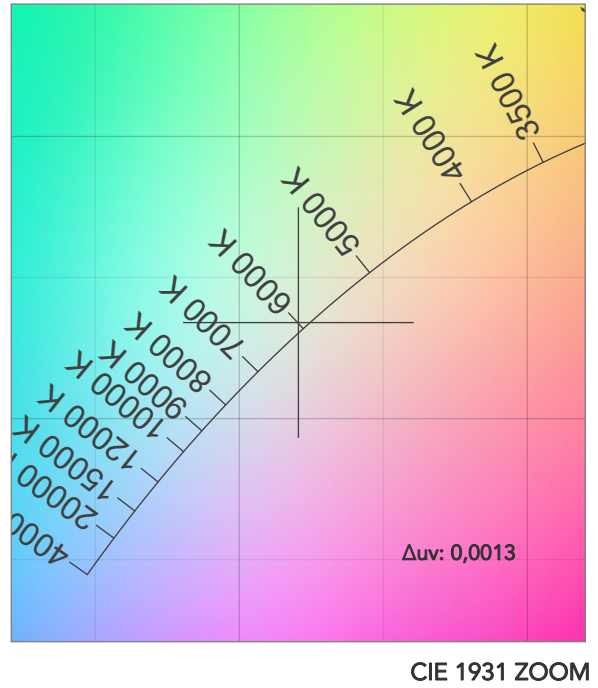
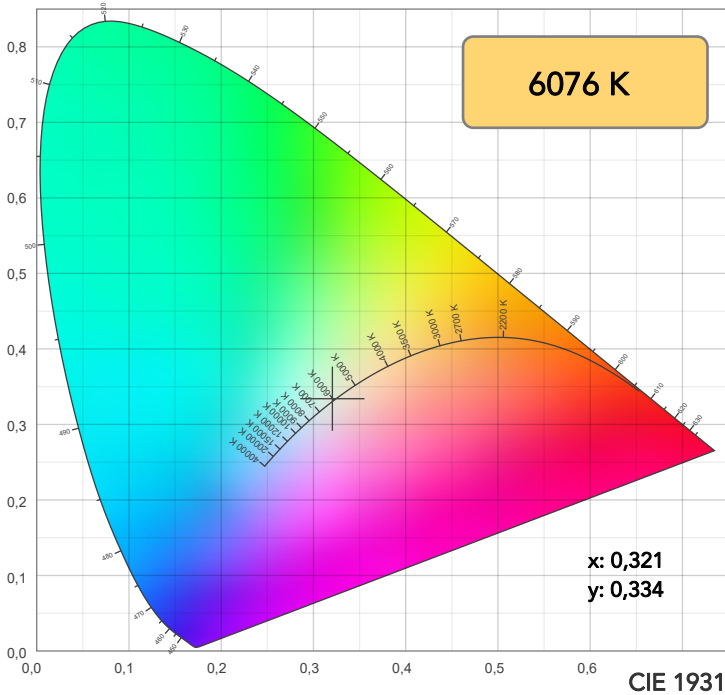


Beam angle 50%: 23,2°
Field angle 10%: 41°
Cut off angle 2.5%: 54°

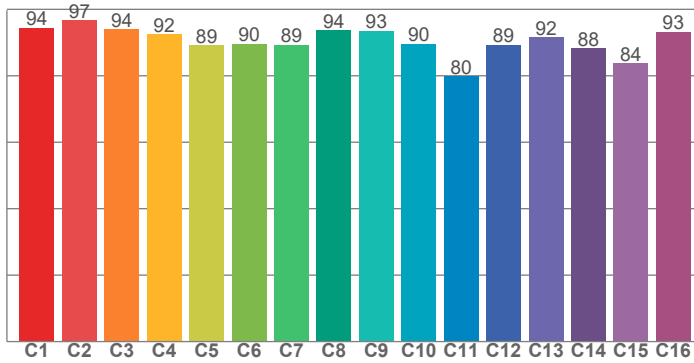
Spectra



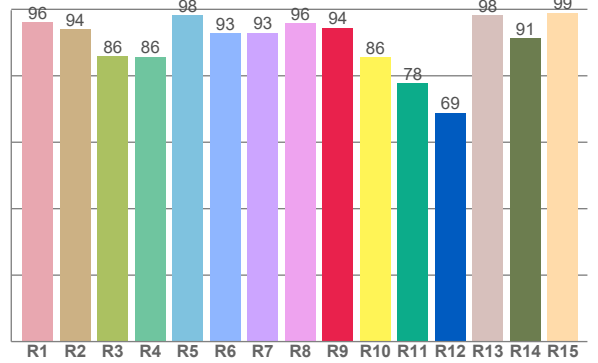
COLOR DETAILS



TM30: 90,4



CRI: 92,7 (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
96,1	94,1	85,8	85,7	98,3	92,9	92,9	95,8	94,5	85,6	77,8	68,8	98,2	91,2	98,9

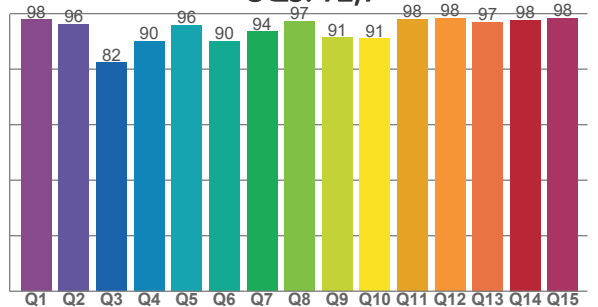
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	96,7	94,0	92,5	89,2	89,6	89,2	93,6	93,5	89,7	79,8	89,3	91,5	88,2	83,7	93,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,9	96,3	82,4	90,2	96,0	90,1	93,5	97,2	91,4	91,0	98,1	98,3	97,1	97,7	98,4

CQS: 92,9



COLOR PARAMETERS

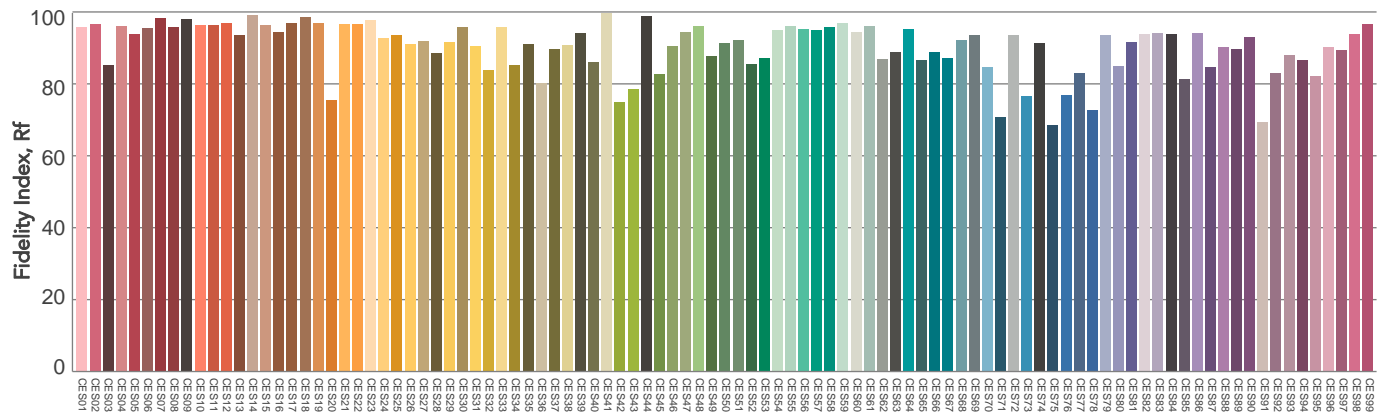
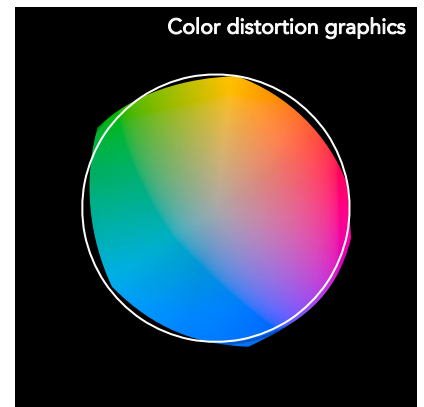
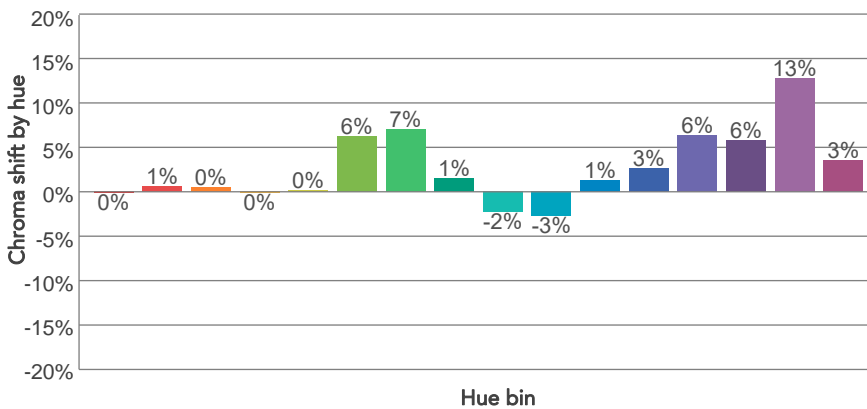
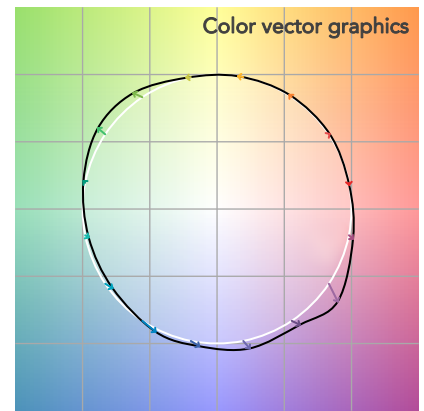
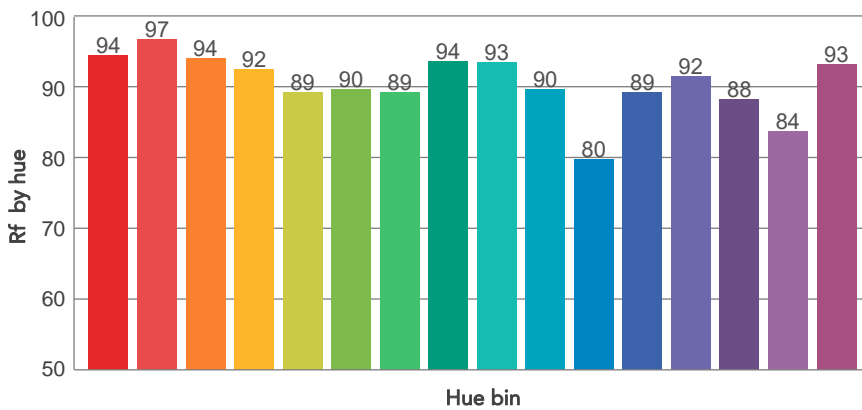
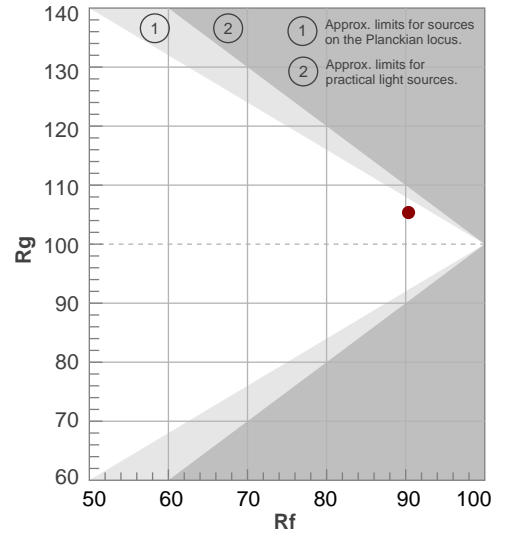
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6076 K	92,7	94,5	90,4	105,4	92,9	90	0,321	0,334	0,0013

TM30 DETAILS

Rf 90,4
Fidelity index Rf

Rg 105,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	0%	-2%
2	97	1%	0%
3	94	0%	2%
4	92	0%	4%
5	89	0%	3%
6	90	6%	4%
7	89	7%	-1%
8	94	1%	-1%
9	93	-2%	2%
10	90	-3%	6%
11	80	1%	13%
12	89	3%	7%
13	92	6%	4%
14	88	6%	3%
15	84	13%	-7%
16	93	3%	-2%

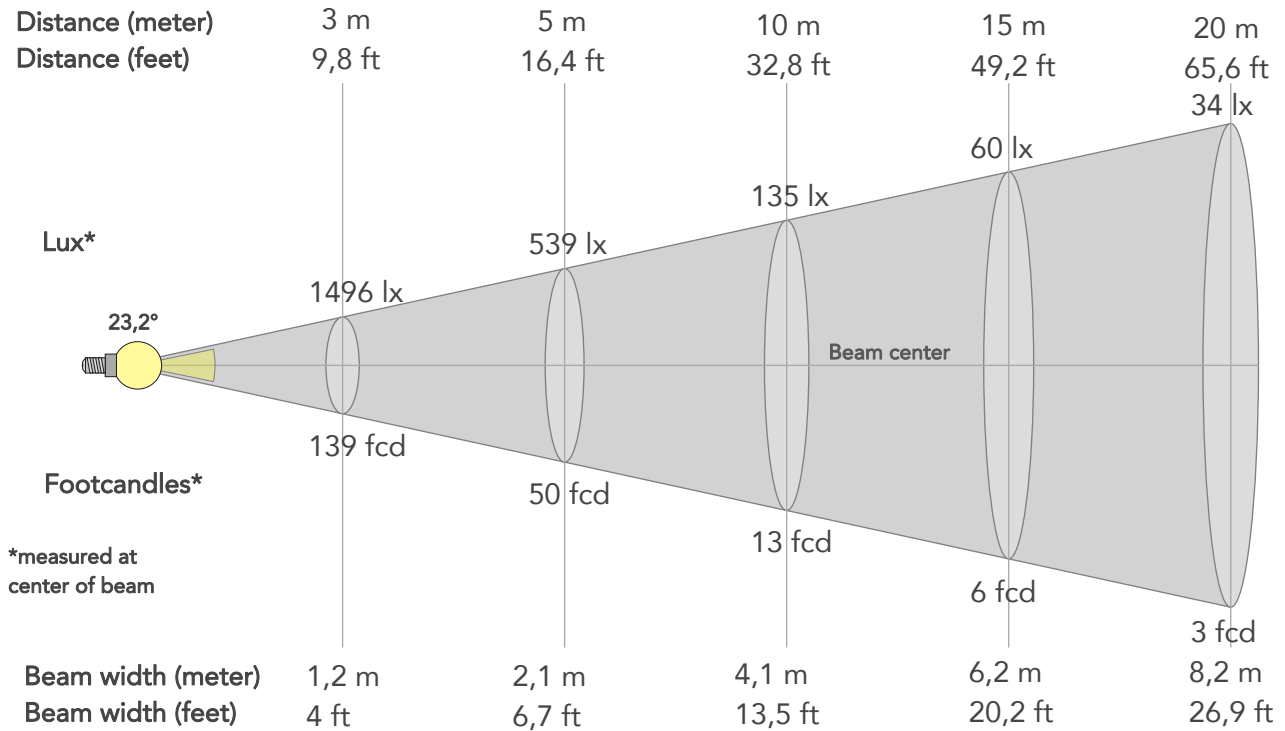


Color Evaluation Sample

BEAM DETAILS



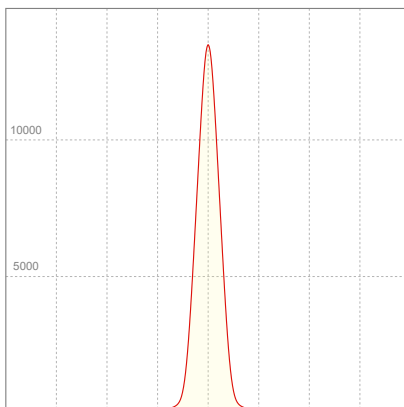
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,2°	41°	54°	98,2%	95,0%



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	13464lx	3366lx	1496lx	842lx	539lx	239lx	135lx	60lx	34lx	22lx	15lx	8lx	5lx
Footcand.	1251fcd	313fcd	139fcd	78fcd	50fcd	22fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2,1m	3,1m	4,1m	6,2m	8,2m	10,3m	12,3m	16,4m	20,5m
Beam wid.	1,4ft	2,7ft	4ft	5,4ft	6,7ft	10,1ft	13,5ft	20,2ft	26,9ft	33,7ft	40,4ft	53,9ft	67,4ft

LINEAR DISTRIBUTION DIAGRAM

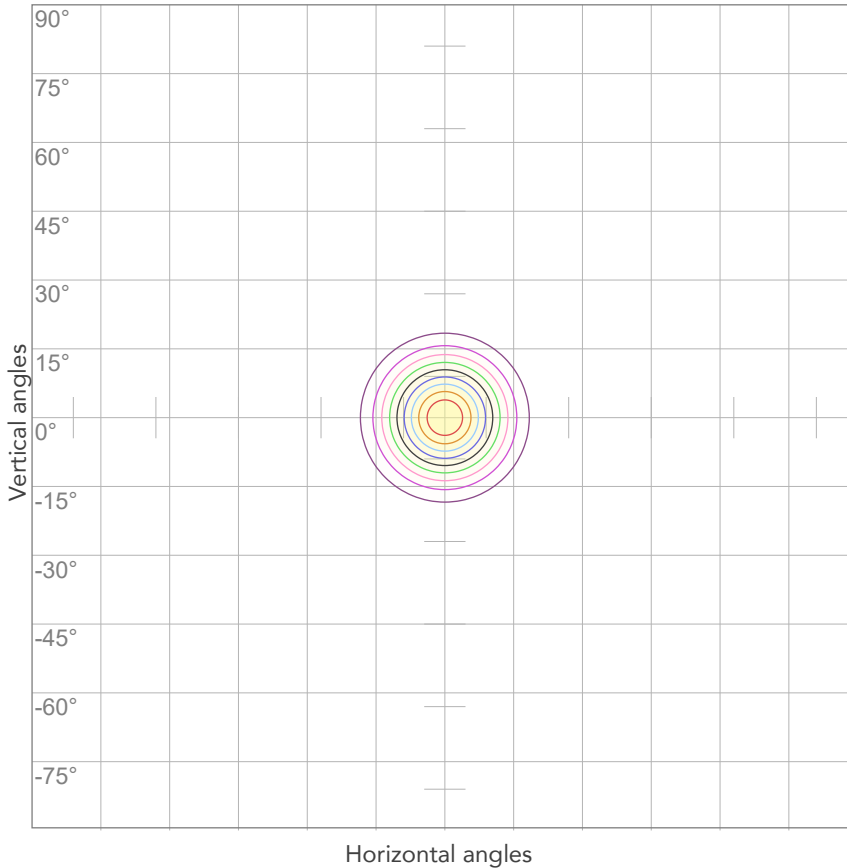


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,278A	58,6W	0,93	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



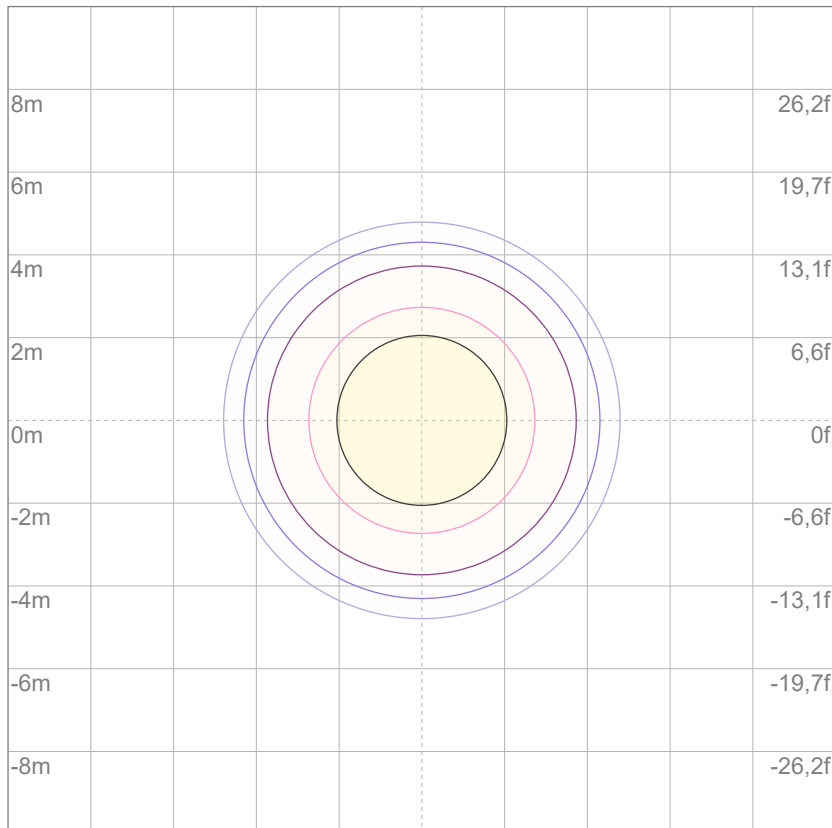
10%	1346 cd
20%	2693 cd
30%	4039 cd
40%	5386 cd
50%	6732 cd
60%	8079 cd
70%	9425 cd
80%	10771 cd

Conditions:

Number of c-planes: 2

Candela at center: 13464 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,04 lx
5%	6,73 lx
10%	13,5 lx
30%	40,4 lx
50%	67,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 135 lx

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



Total lumen output:

2484 lm

Peak candela output:

2211 cd

Light quality:

CRI: 92,8

Color temperature:

6074 K

PRODUCT NAME:
ECLPENDANTS FC

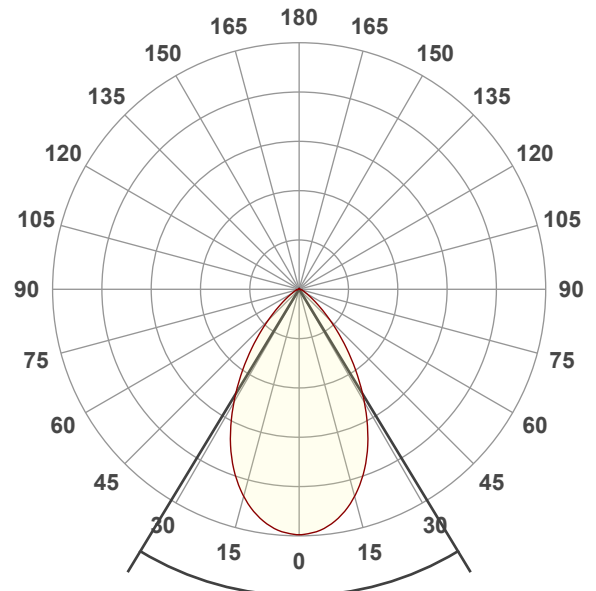
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
6000K

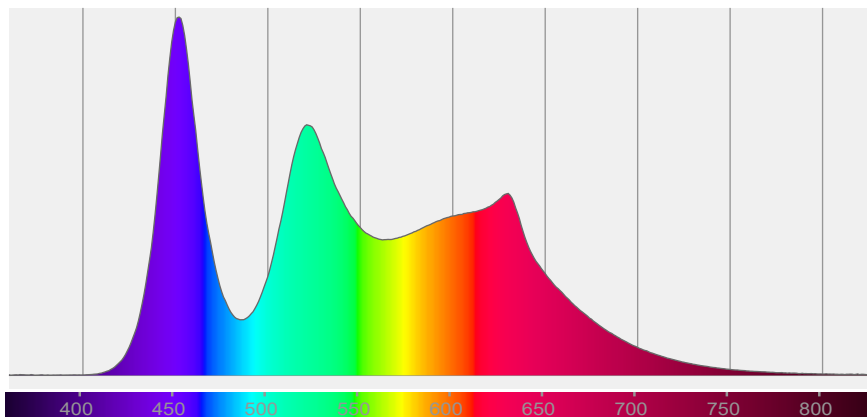
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:16:26

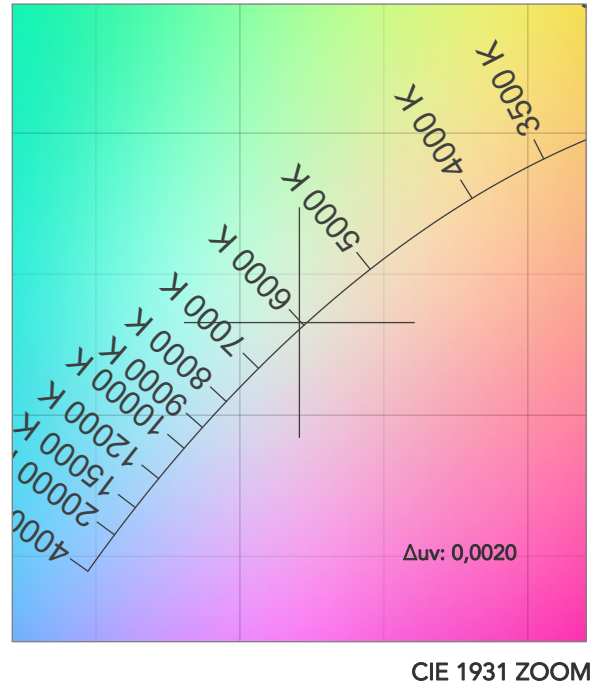
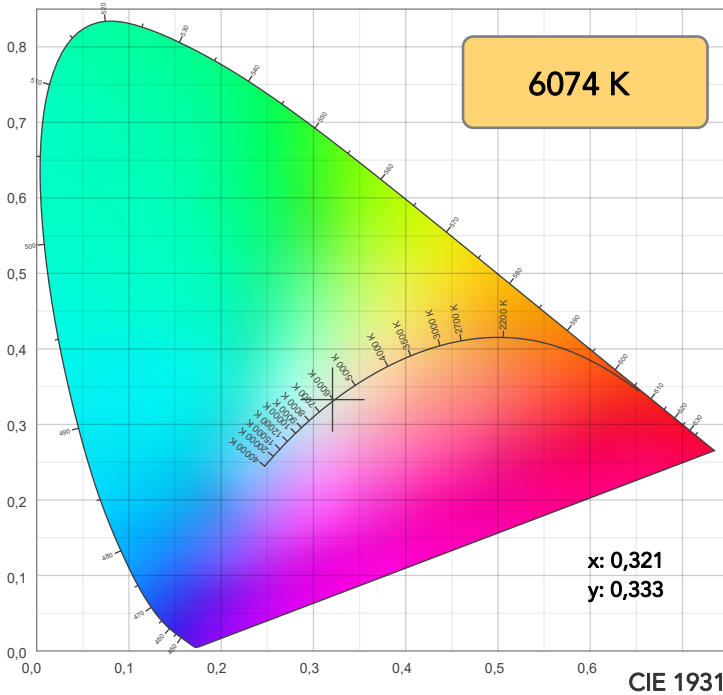


Beam angle 50%: 62,5°
Field angle 10%: 101,1°
Cut off angle 2.5%: 129,4°

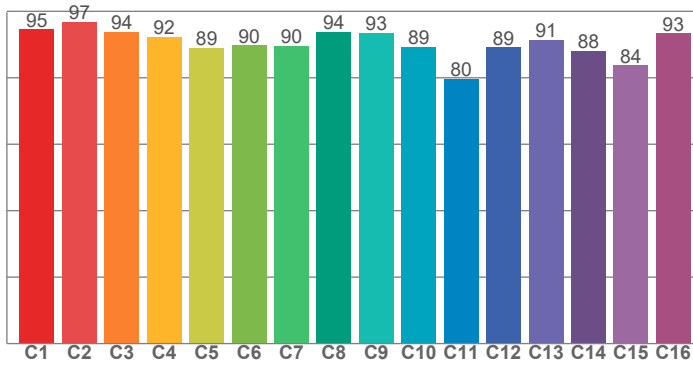
Spectra



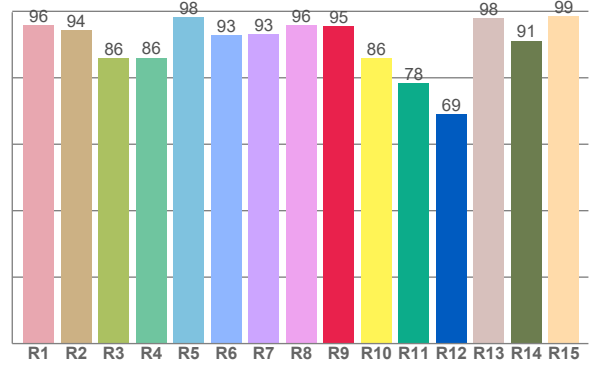
COLOR DETAILS



TM30: 90,3



CRI: 92,8 (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
95,8	94,3	85,8	86,0	98,3	92,8	93,1	95,8	95,4	86,0	78,3	69,0	97,9	91,2	98,6

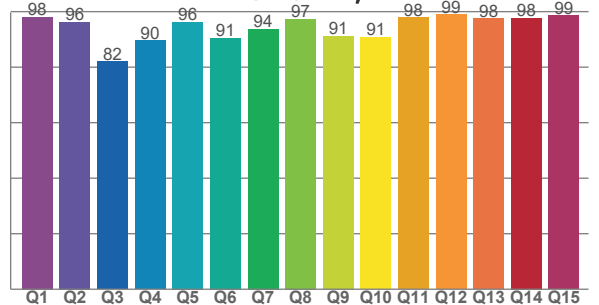
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,8	93,8	92,3	89,1	89,7	89,6	93,8	93,4	89,3	79,6	89,1	91,4	88,2	83,7	93,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,0	96,2	82,1	89,6	96,3	90,5	93,7	97,3	91,2	90,7	97,9	98,9	97,5	97,7	98,5

CQS: 92,8



COLOR PARAMETERS

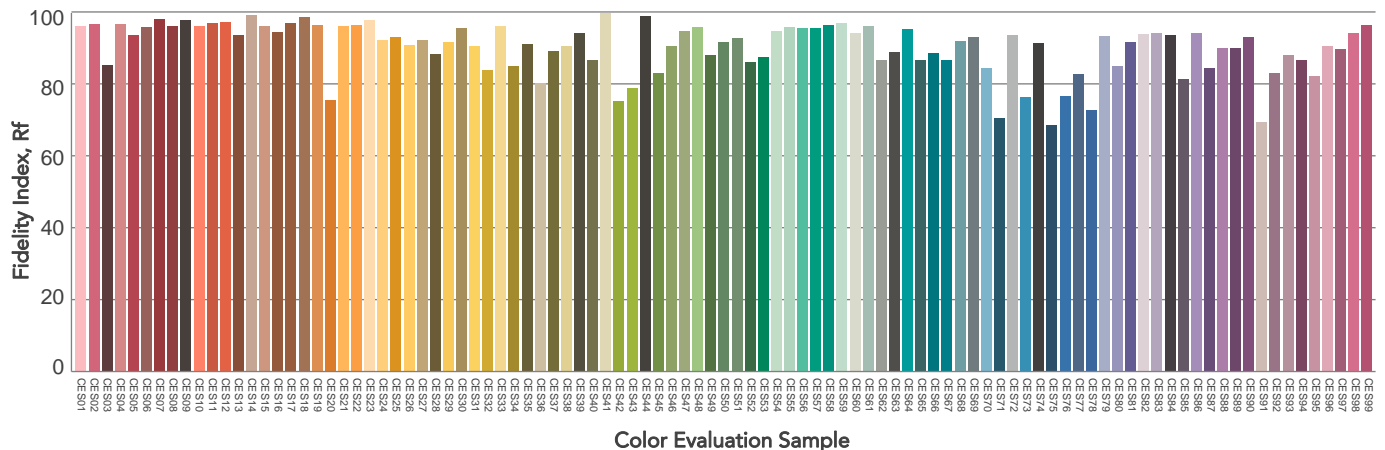
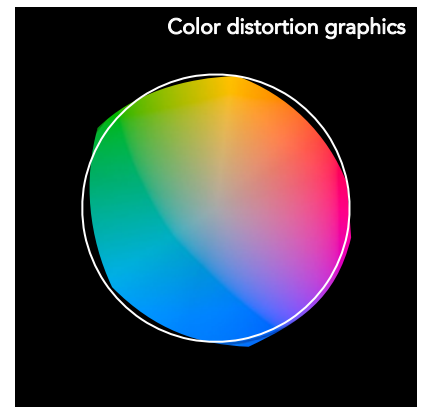
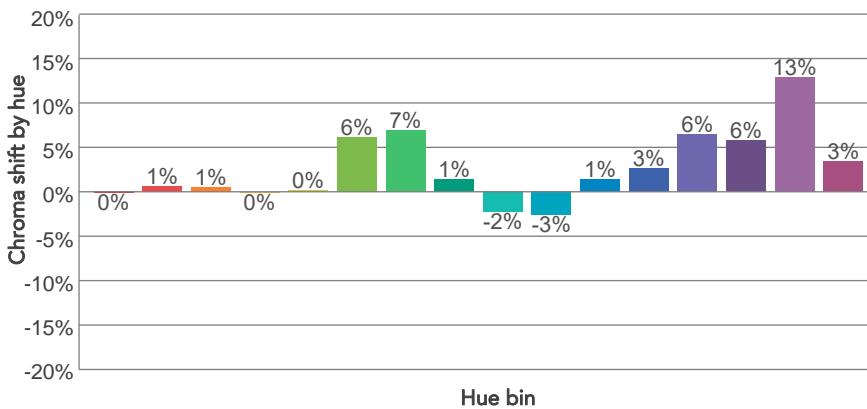
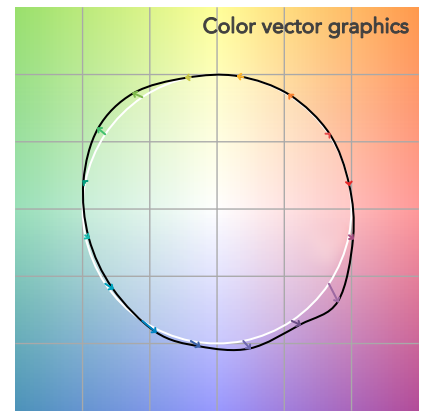
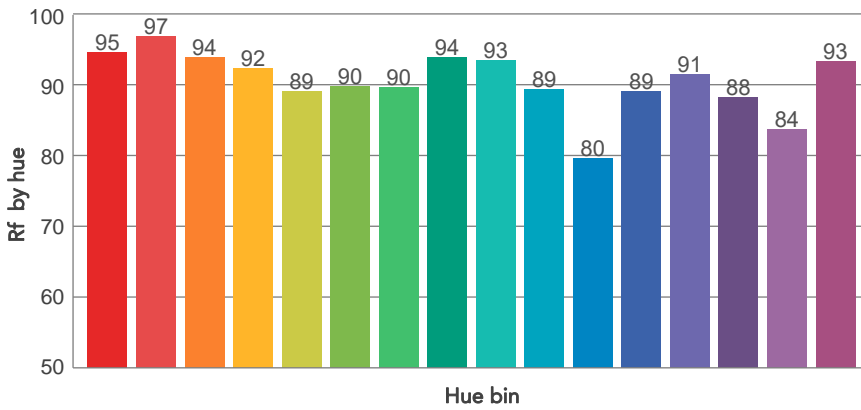
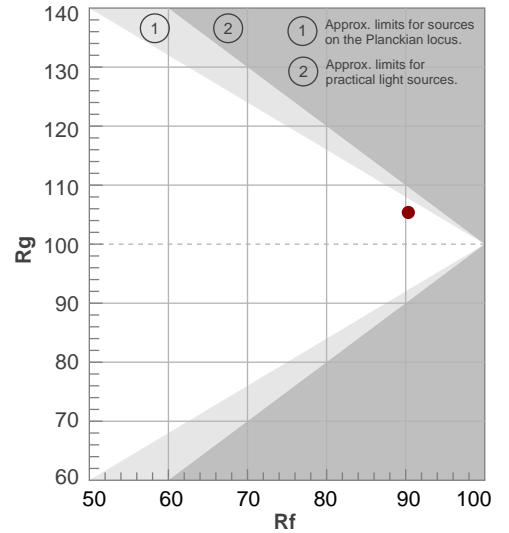
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6074 K	92,8	95,4	90,3	105,4	92,8	90	0,321	0,333	0,0020

TM30 DETAILS

Rf 90,3
Fidelity index Rf

Rg 105,4
Gammut index

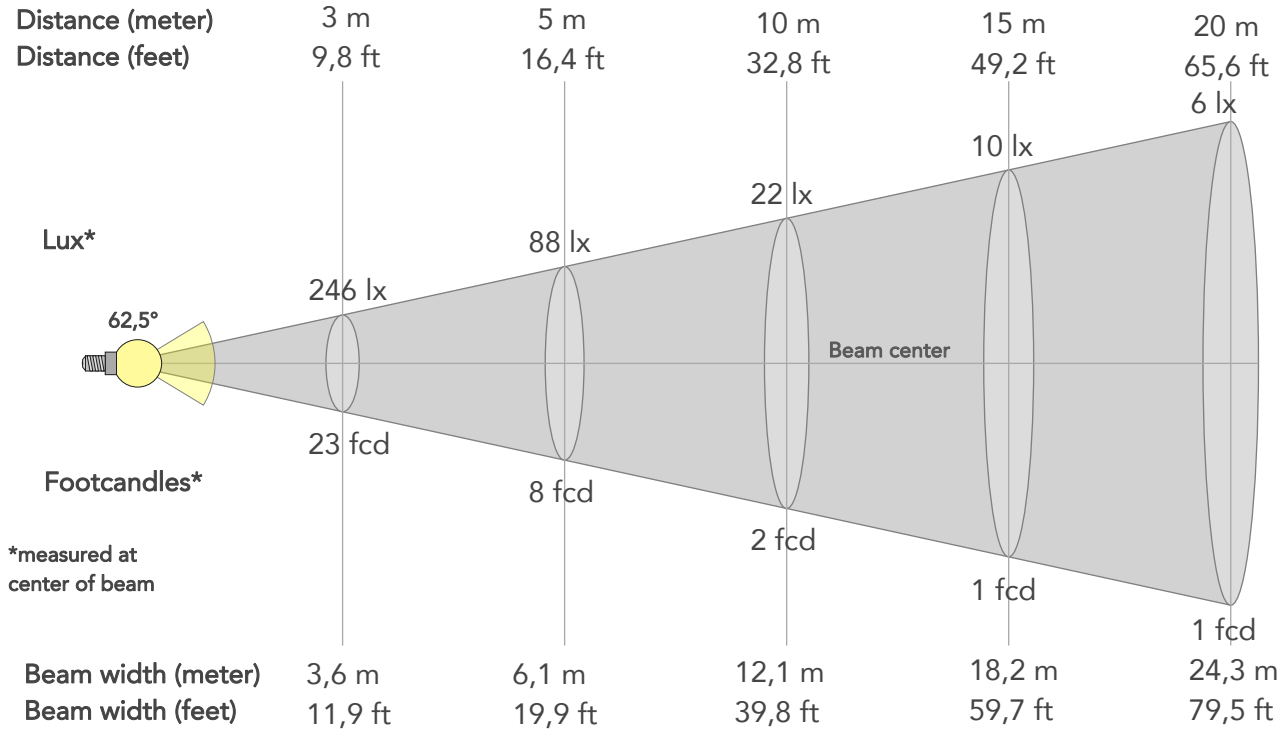
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	1%	0%
3	94	1%	3%
4	92	0%	4%
5	89	0%	3%
6	90	6%	4%
7	90	7%	-1%
8	94	1%	-1%
9	93	-2%	2%
10	89	-3%	6%
11	80	1%	13%
12	89	3%	7%
13	91	6%	4%
14	88	6%	3%
15	84	13%	-7%
16	93	3%	-2%



BEAM DETAILS



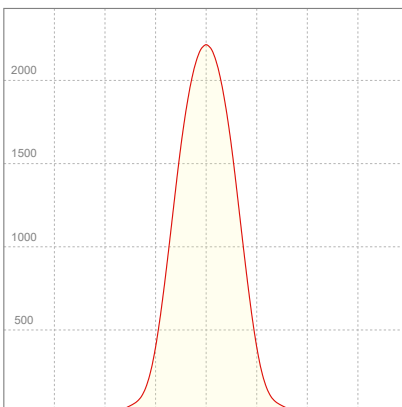
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,5°	101,1°	129,4°	96,8%	86,7%



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	2211lx	553lx	246lx	138lx	88lx	39lx	22lx	10lx	6lx	4lx	2lx	1lx	1lx
Footcand.	205fcd	51fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,9m	6,1m	9,1m	12,1m	18,2m	24,3m	30,3m	36,4m	48,5m	60,6m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,8ft	39,8ft	59,7ft	79,5ft	99,4ft	119,3ft	159,1ft	198,9ft

LINEAR DISTRIBUTION DIAGRAM

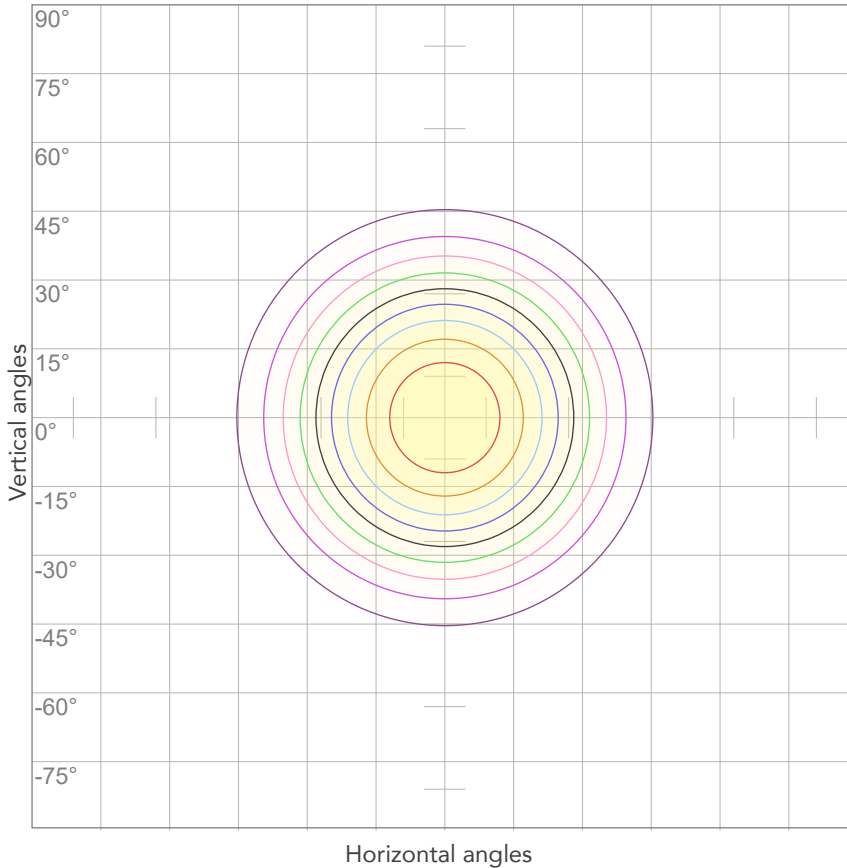


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,278A	58,5W	0,93	42lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



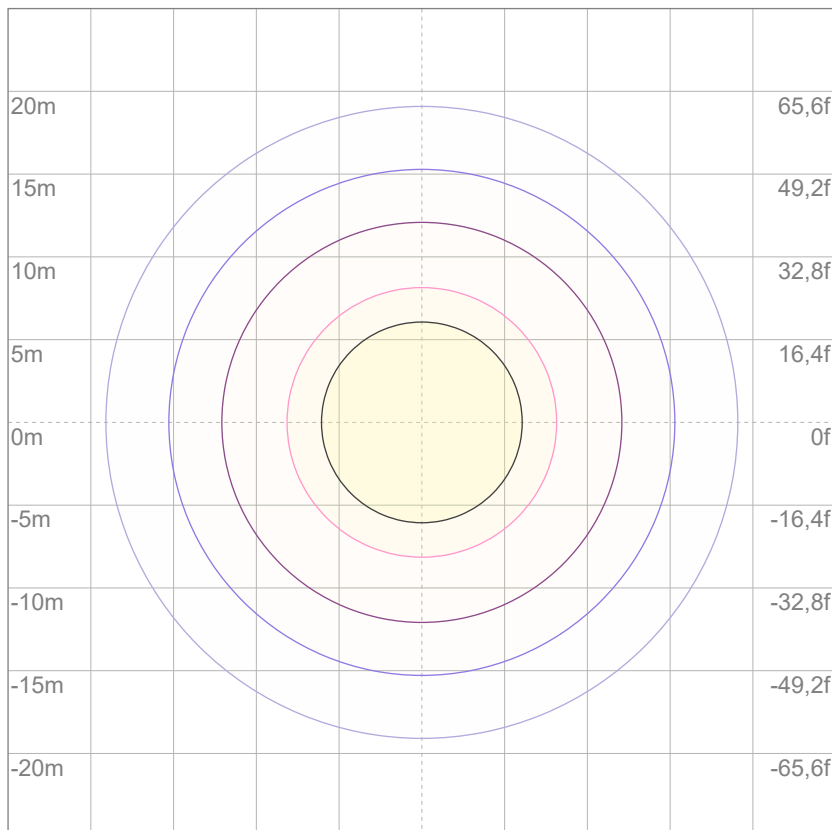
10%	221 cd
20%	442 cd
30%	663 cd
40%	885 cd
50%	1106 cd
60%	1327 cd
70%	1548 cd
80%	1769 cd

Conditions:

Number of c-planes: 2

Candela at center: 2211 cd

ISO LUX DIAGRAM



3%	0,663 lx
5%	1,11 lx
10%	2,21 lx
30%	6,63 lx
50%	11,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 22,1 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2622 lm

Peak candela output:

13160 cd

Light quality:

CRI: 92,8

Color temperature:

6506 K

PRODUCT NAME:
ECLPENDANTS FC

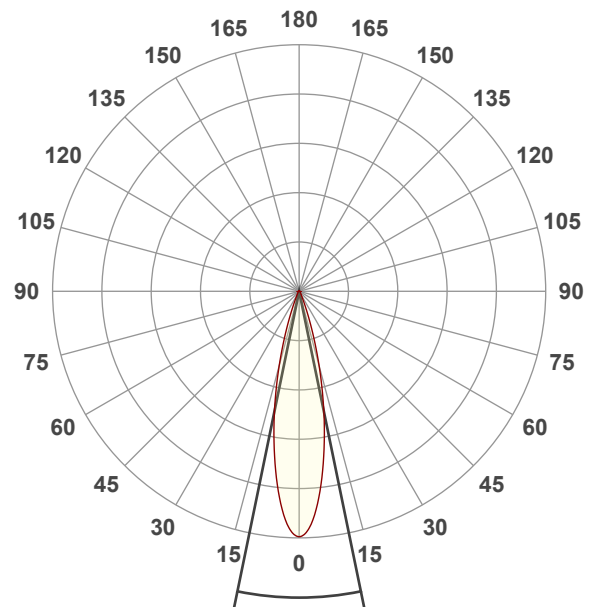
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
6500K

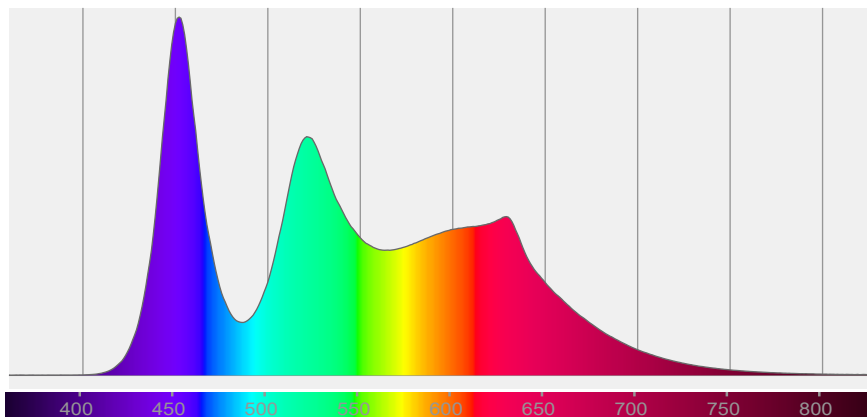
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:01:58

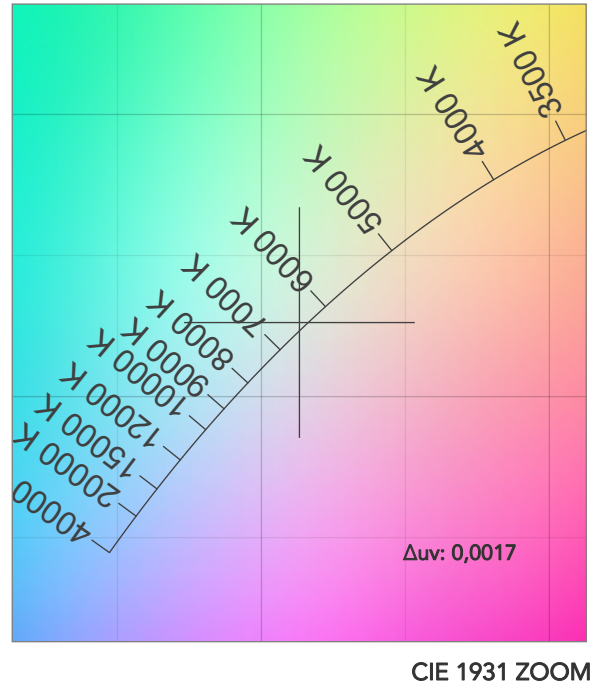
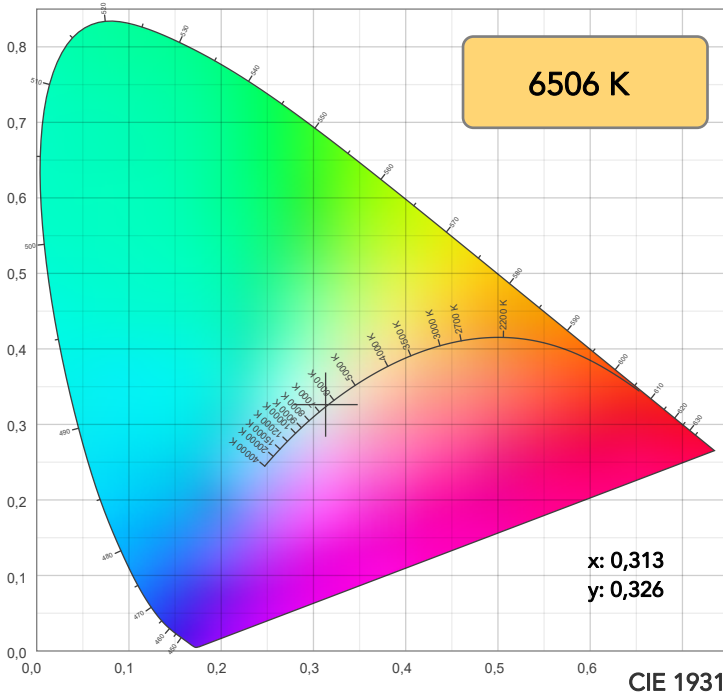


Beam angle 50%: 23,2°
Field angle 10%: 41°
Cut off angle 2.5%: 54°

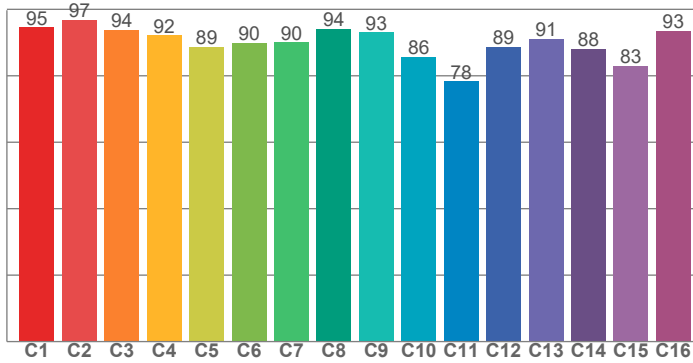
Spectra



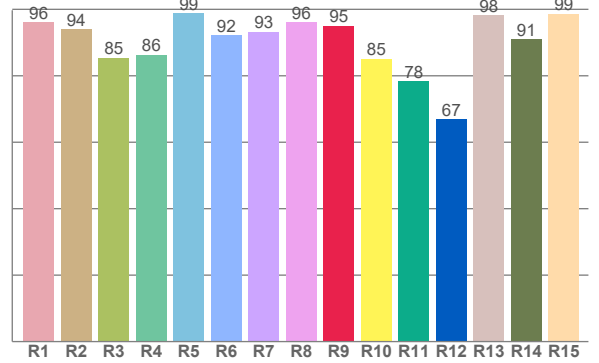
COLOR DETAILS



TM30: 90,1



CRI: 92,8 (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
96,0	94,0	85,4	86,3	98,8	92,3	93,3	96,0	95,1	85,1	78,3	67,0	98,1	91,0	98,7

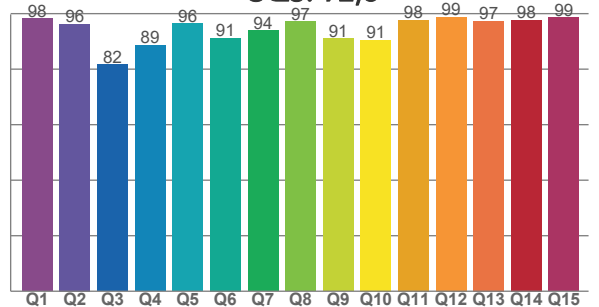
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,8	93,8	92,2	88,7	89,9	90,0	94,0	93,0	85,7	78,3	88,7	91,2	88,1	83,0	93,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	96,2	81,7	88,6	96,4	91,2	93,9	97,2	91,0	90,5	97,7	98,8	97,4	97,7	98,5

CQS: 92,6



COLOR PARAMETERS

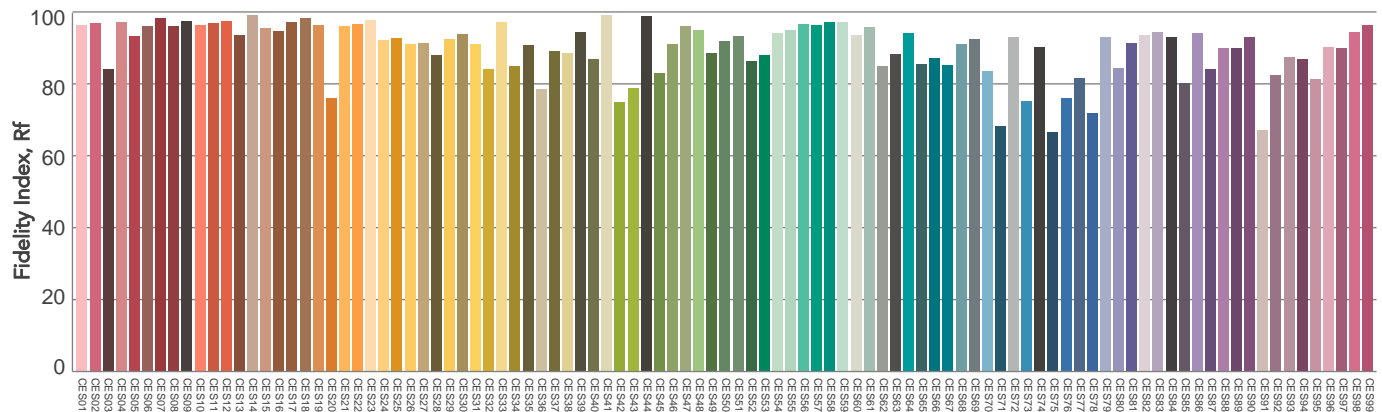
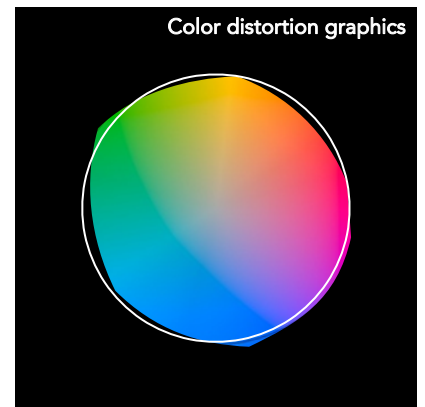
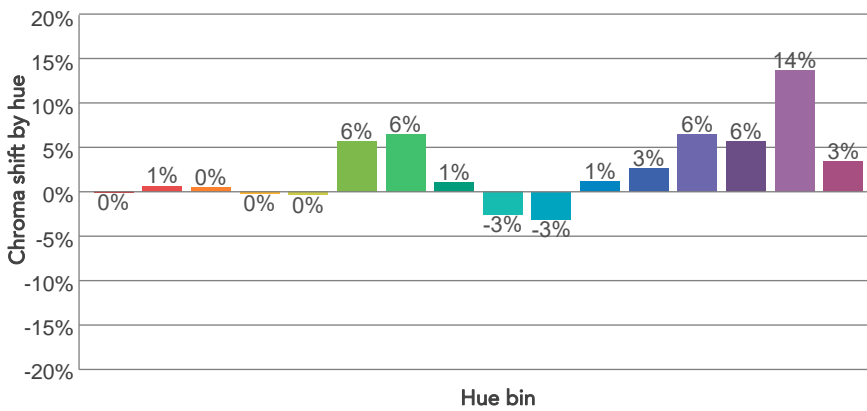
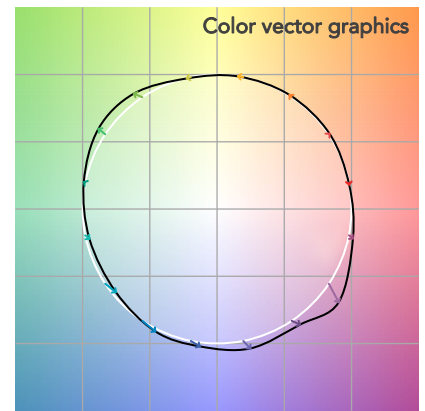
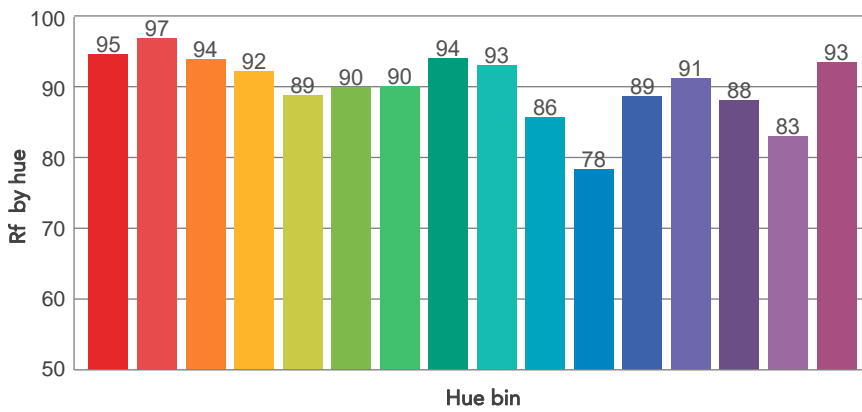
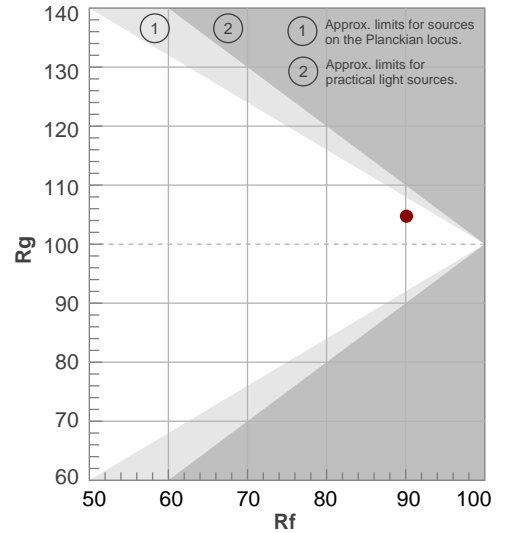
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6506 K	92,8	95,1	90,1	104,7	92,6	91	0,313	0,326	0,0017

TM30 DETAILS

Rf 90,1
Fidelity index Rf

Rg 104,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	1%	0%
3	94	0%	2%
4	92	0%	4%
5	89	0%	3%
6	90	6%	4%
7	90	6%	-1%
8	94	1%	0%
9	93	-3%	3%
10	86	-3%	10%
11	78	1%	12%
12	89	3%	7%
13	91	6%	4%
14	88	6%	4%
15	83	14%	-7%
16	93	3%	-2%

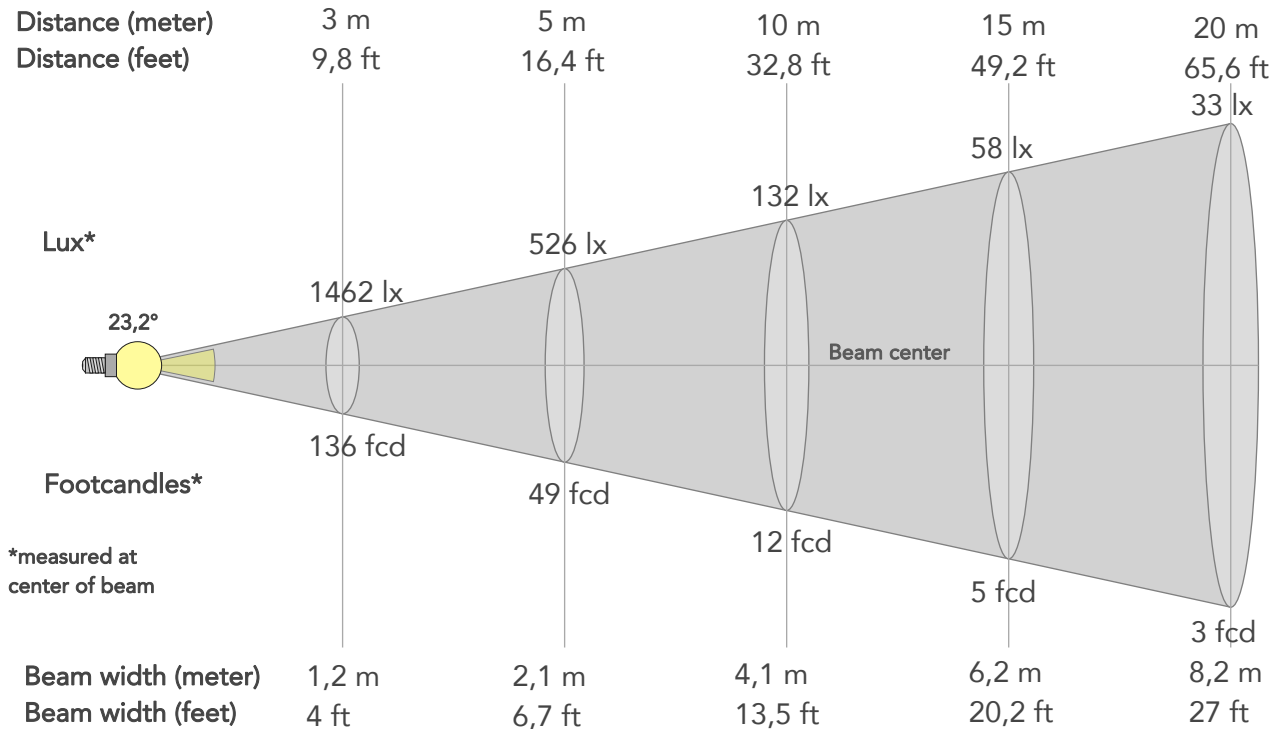


Color Evaluation Sample

BEAM DETAILS



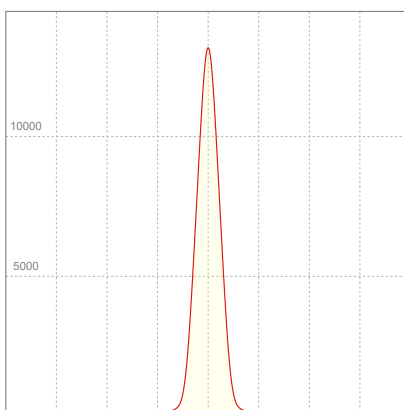
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,2°	41°	54°	98,2%	95,0%



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	13160lx	3290lx	1462lx	823lx	526lx	234lx	132lx	58lx	33lx	21lx	15lx	8lx	5lx
Footcand.	1223fcd	306fcd	136fcd	76fcd	49fcd	22fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2,1m	3,1m	4,1m	6,2m	8,2m	10,3m	12,3m	16,5m	20,6m
Beam wid.	1,4ft	2,7ft	4ft	5,4ft	6,7ft	10,1ft	13,5ft	20,2ft	27ft	33,7ft	40,5ft	54ft	67,5ft

LINEAR DISTRIBUTION DIAGRAM

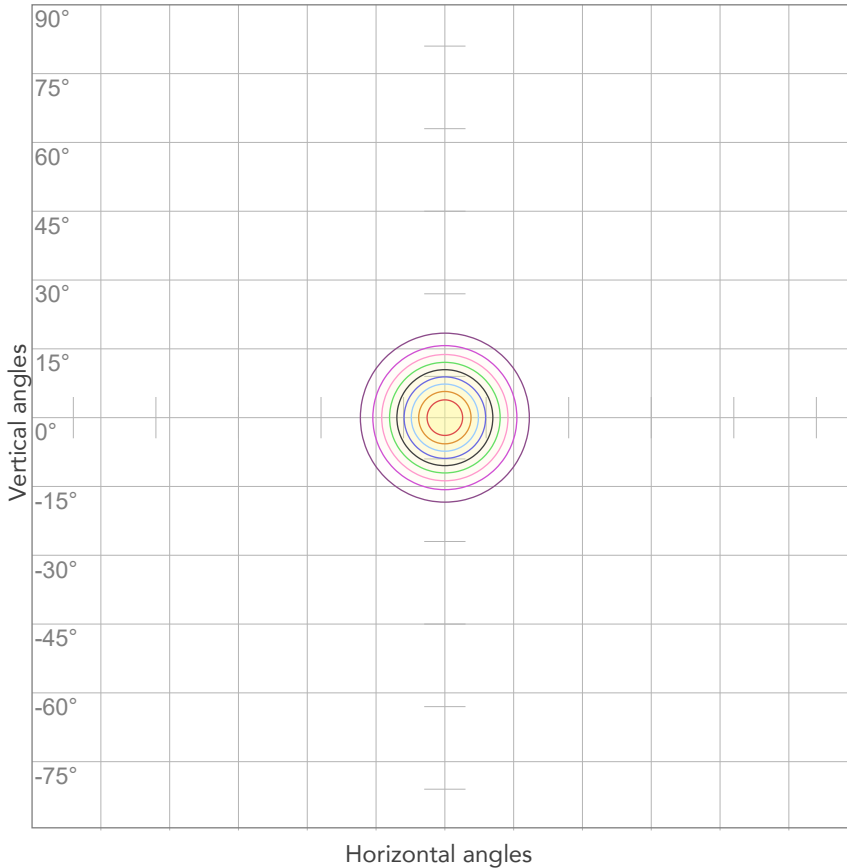


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,278A	58,4W	0,93	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



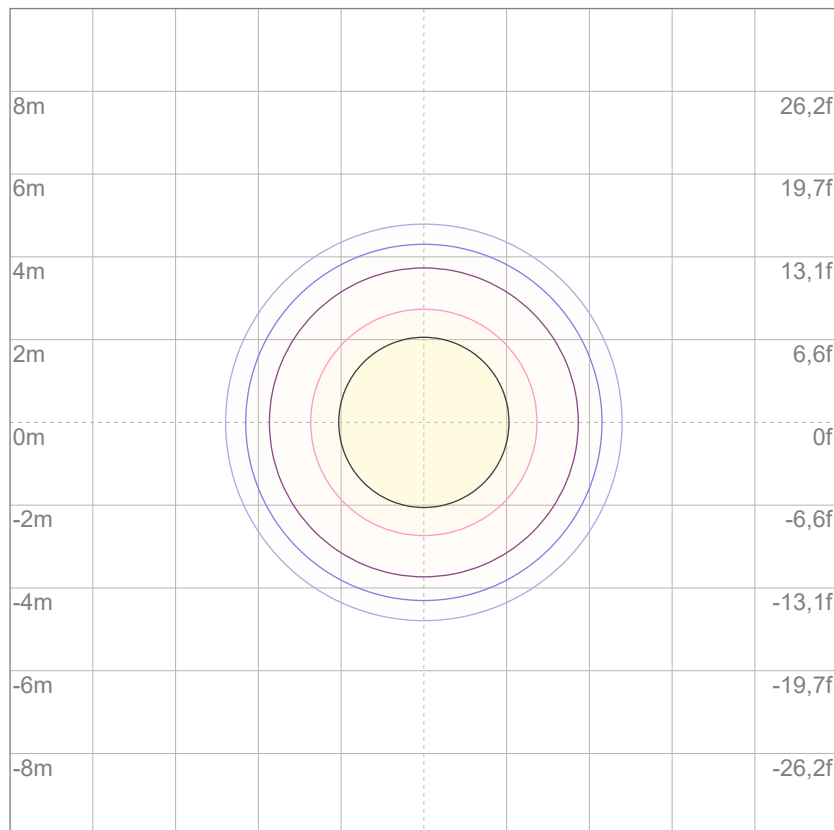
10%	1316 cd
20%	2632 cd
30%	3948 cd
40%	5264 cd
50%	6580 cd
60%	7896 cd
70%	9212 cd
80%	10528 cd

Conditions:

Number of c-planes: 2

Candela at center: 13160 cd

ISO LUX DIAGRAM



3%	3,95 lx
5%	6,58 lx
10%	13,2 lx
30%	39,5 lx
50%	65,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 132 lx

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



Total lumen output:

2621 lm

Peak candela output:

4398 cd

Light quality:

CRI: 92,8

Color temperature:

6503 K

PRODUCT NAME:
ECLPENDANTS FC

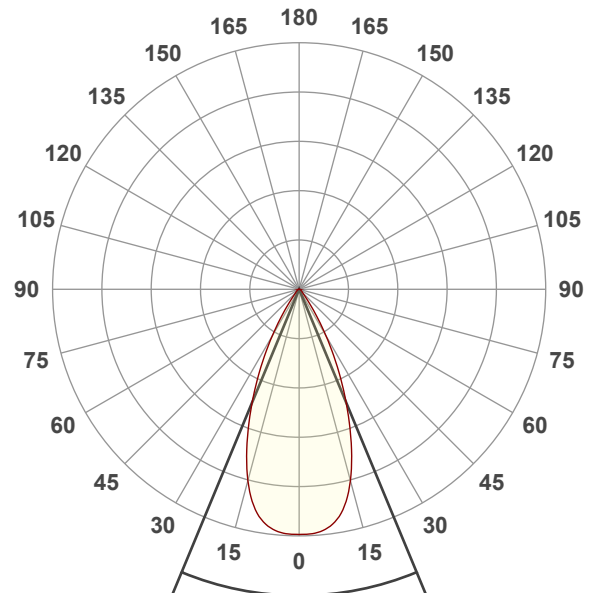
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
6500K

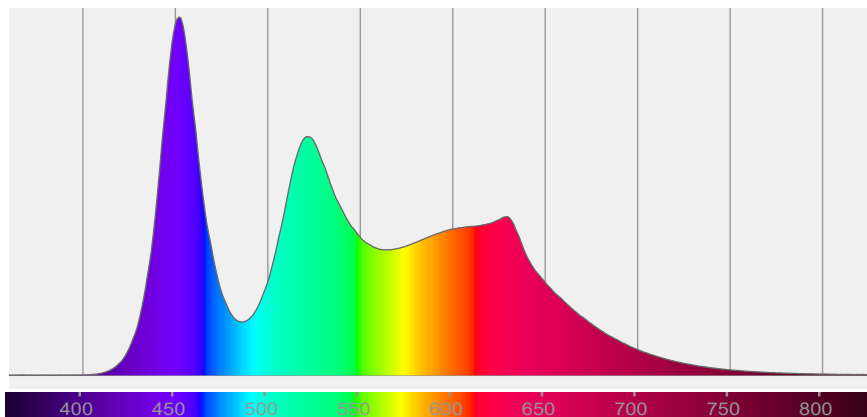
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:32:39

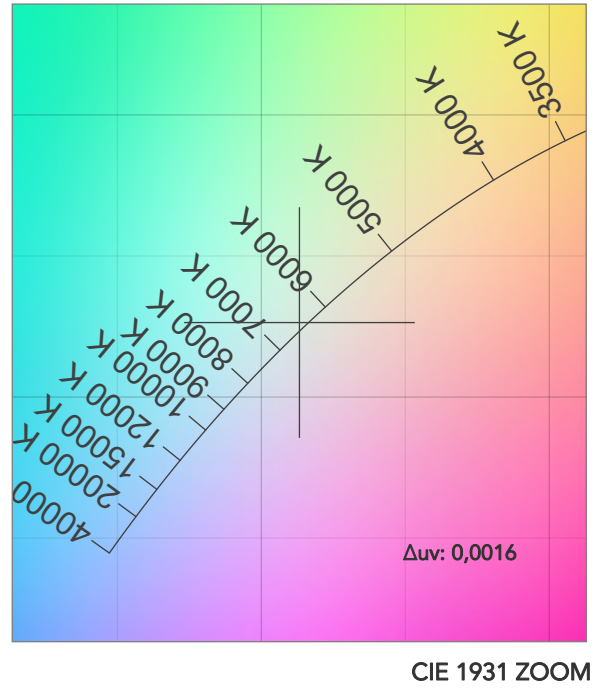
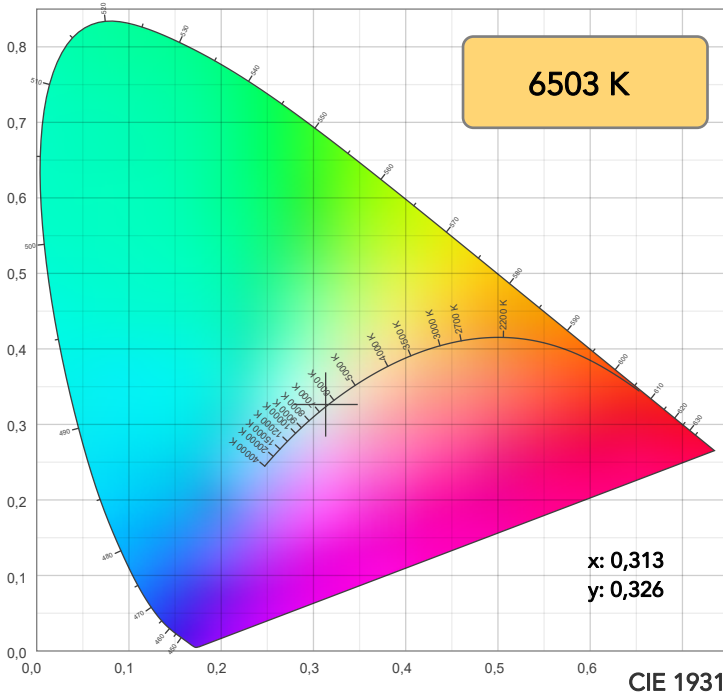


Beam angle 50%: 45,1°
Field angle 10%: 69,3°
Cut off angle 2.5%: 86°

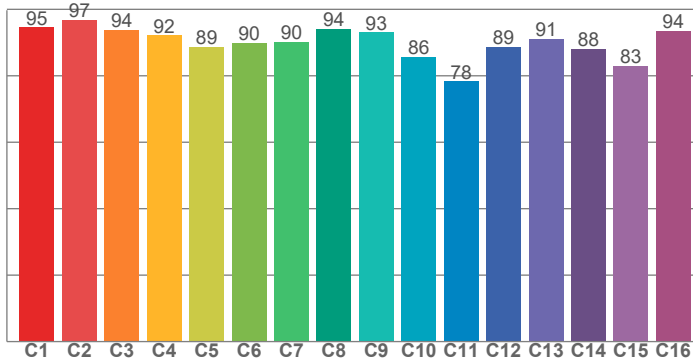
Spectra



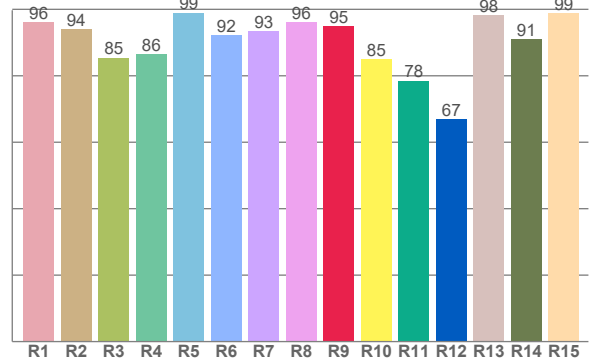
COLOR DETAILS



TM30: 90,1



CRI: 92,8 (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
96,1	94,0	85,4	86,4	98,9	92,2	93,3	96,1	94,8	85,1	78,5	66,9	98,2	91,0	98,8

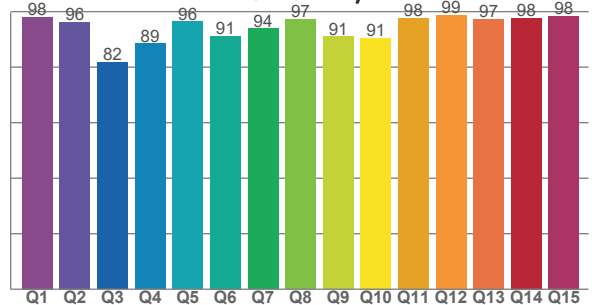
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,8	93,8	92,2	88,7	89,9	90,1	94,1	93,0	85,6	78,3	88,7	91,2	88,2	83,0	93,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	96,2	81,7	88,5	96,4	91,2	93,9	97,2	91,0	90,5	97,6	98,8	97,4	97,6	98,5

CQS: 92,6



COLOR PARAMETERS

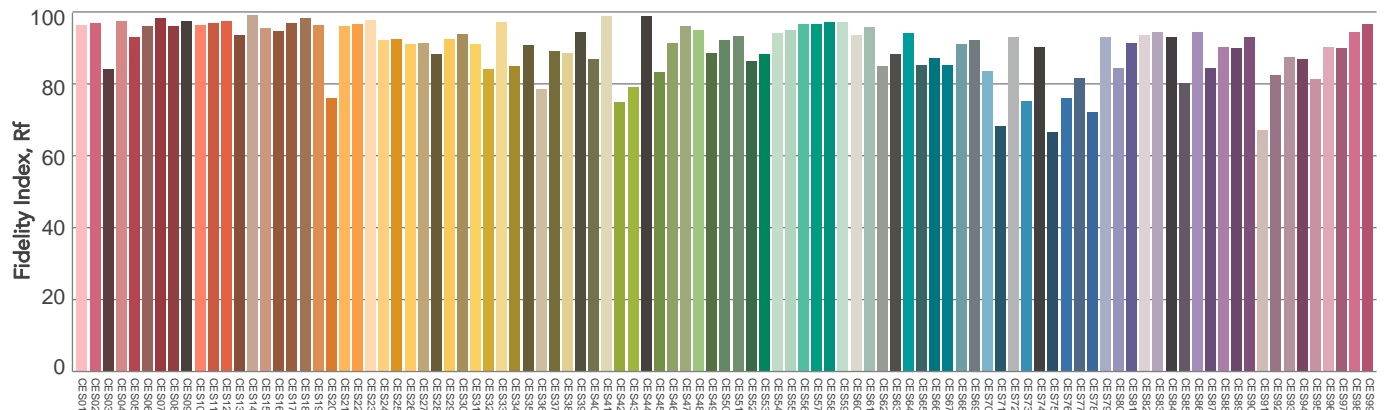
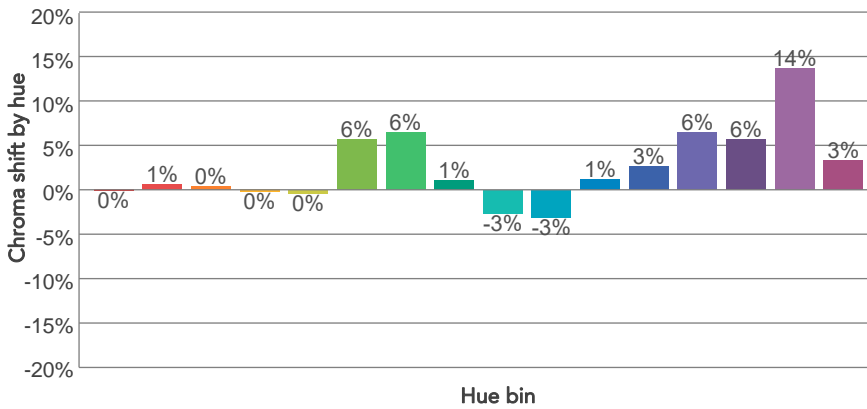
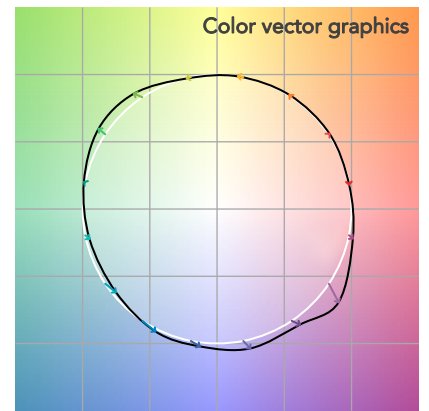
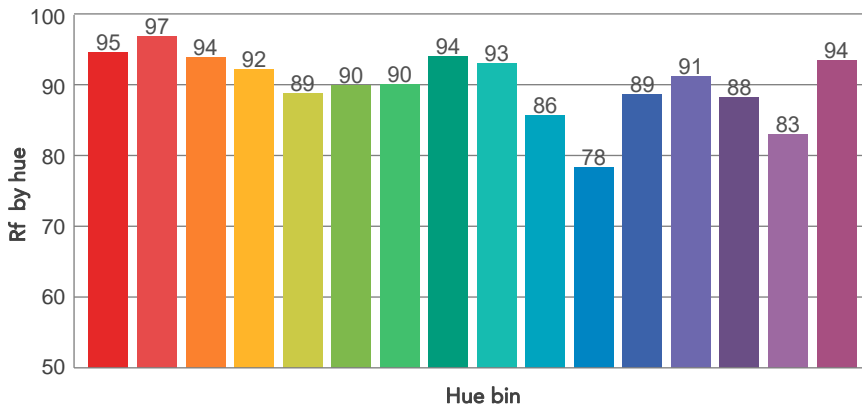
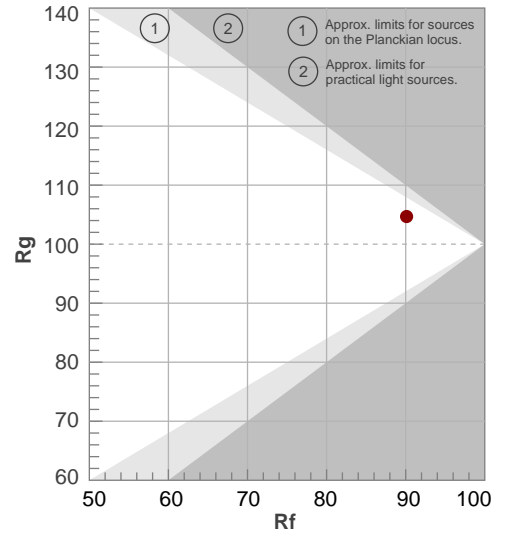
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6503 K	92,8	94,8	90,1	104,7	92,6	91	0,313	0,326	0,0016

TM30 DETAILS

Rf 90,1
Fidelity index Rf

Rg 104,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	1%	0%
3	94	0%	2%
4	92	0%	4%
5	89	0%	3%
6	90	6%	4%
7	90	6%	-1%
8	94	1%	0%
9	93	-3%	3%
10	86	-3%	10%
11	78	1%	12%
12	89	3%	7%
13	91	6%	4%
14	88	6%	4%
15	83	14%	-7%
16	94	3%	-2%

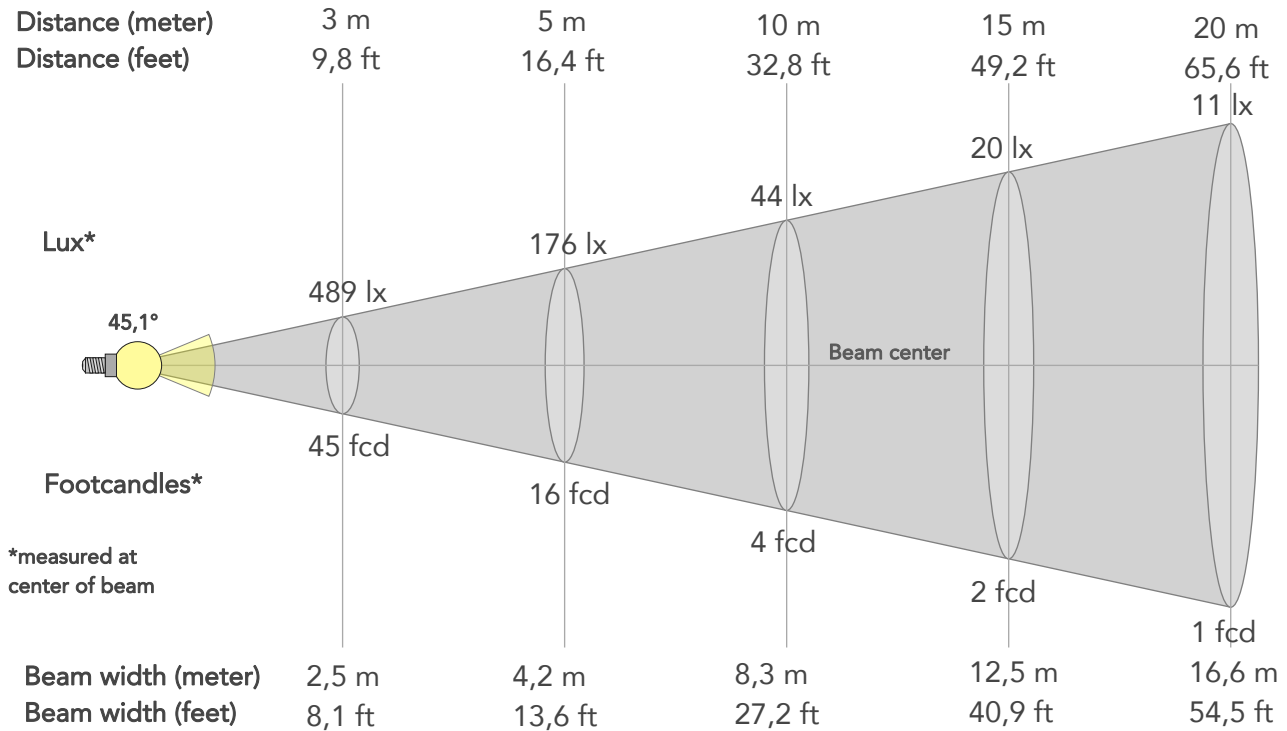


Color Evaluation Sample

BEAM DETAILS



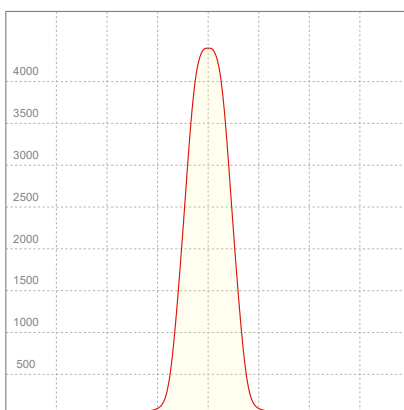
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45,1°	69,3°	86°	98,5%	95,5%



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	4398lx	1099lx	489lx	275lx	176lx	78lx	44lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	409fcd	102fcd	45fcd	26fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,7m	2,5m	3,3m	4,2m	6,2m	8,3m	12,5m	16,6m	20,8m	24,9m	33,2m	41,5m
Beam wid.	2,7ft	5,5ft	8,1ft	10,9ft	13,6ft	20,4ft	27,2ft	40,9ft	54,5ft	68,1ft	81,7ft	109ft	136,2ft

LINEAR DISTRIBUTION DIAGRAM

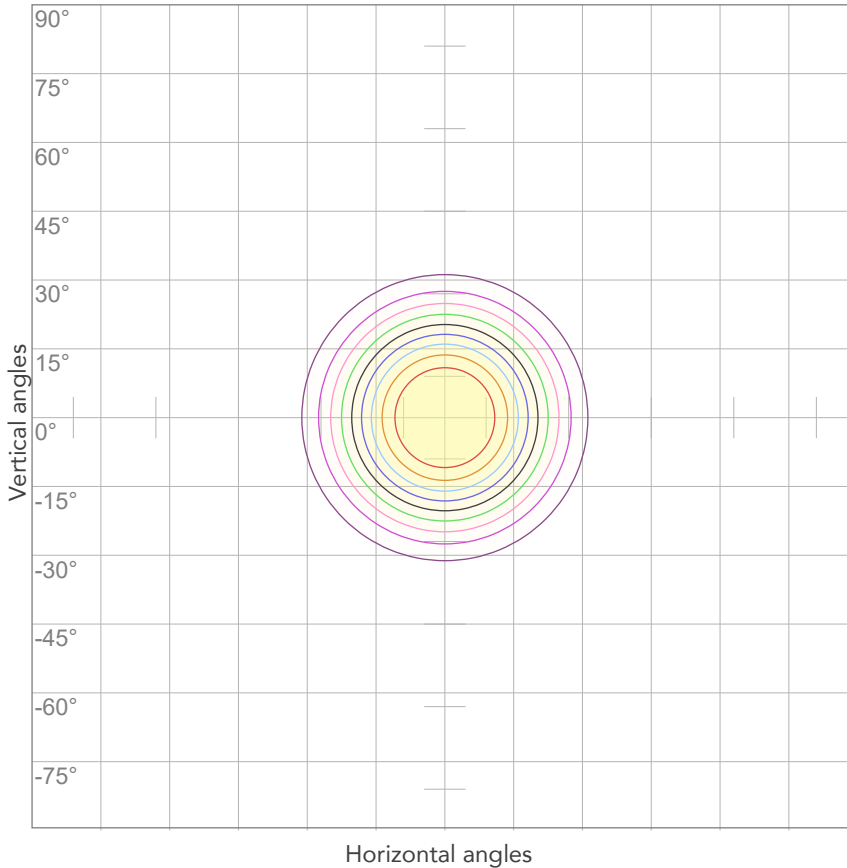


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,278A	58,3W	0,93	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



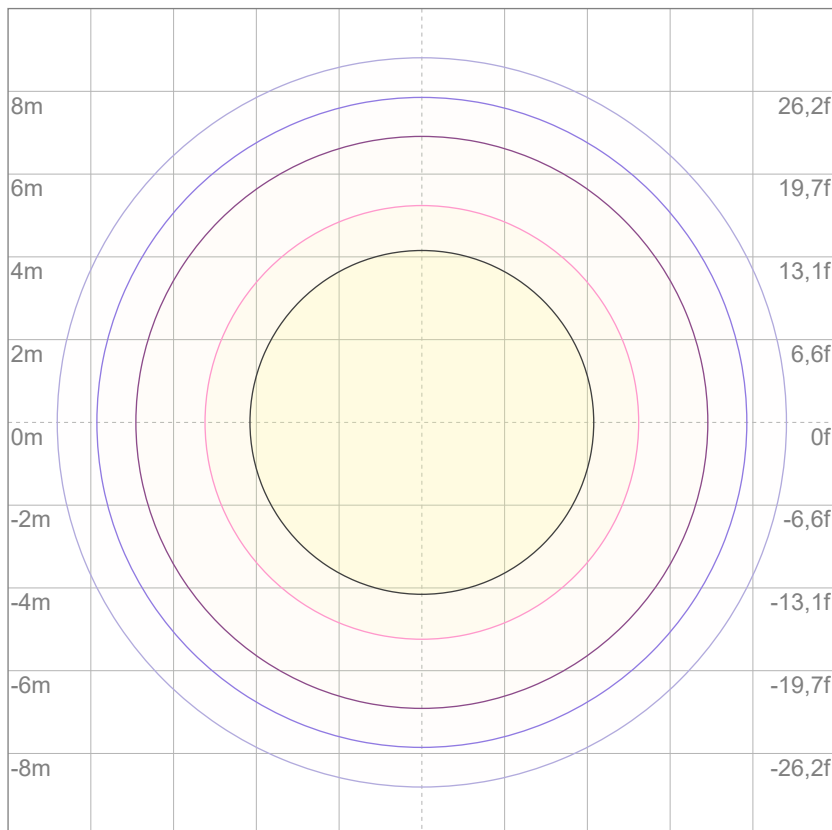
10%	440 cd
20%	880 cd
30%	1319 cd
40%	1759 cd
50%	2199 cd
60%	2639 cd
70%	3079 cd
80%	3518 cd

Conditions:

Number of c-planes: 2

Candela at center: 4398 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,32 lx
5%	2,20 lx
10%	4,40 lx
30%	13,2 lx
50%	22,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 44,0 lx

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



Total lumen output:

2446 lm

Peak candela output:

2178 cd

Light quality:

CRI: 92,8

Color temperature:

6491 K

PRODUCT NAME:
ECLPENDANTS FC

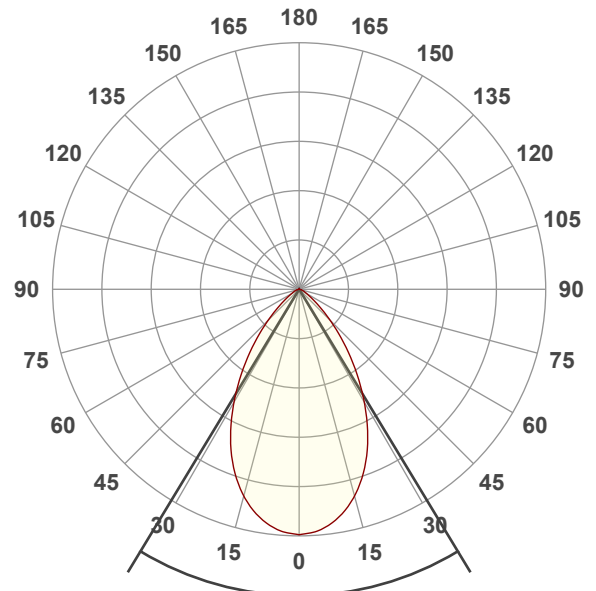
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
6500K

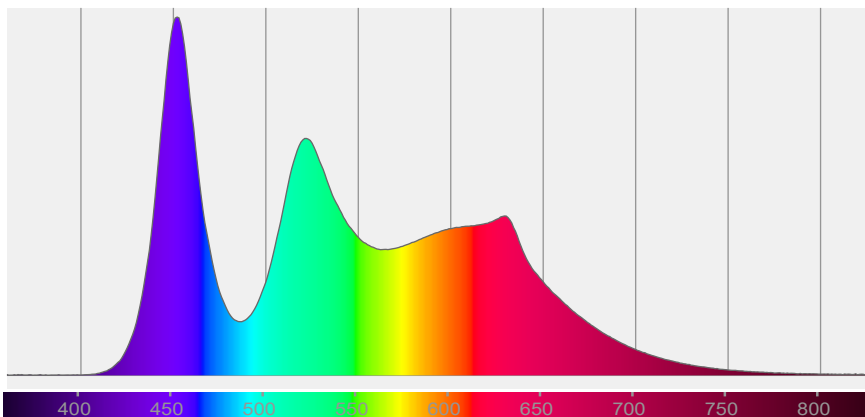
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:18:19

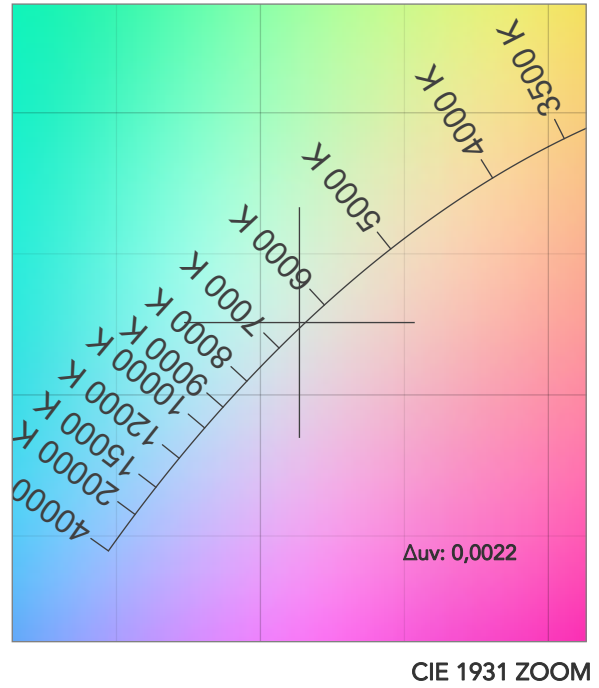
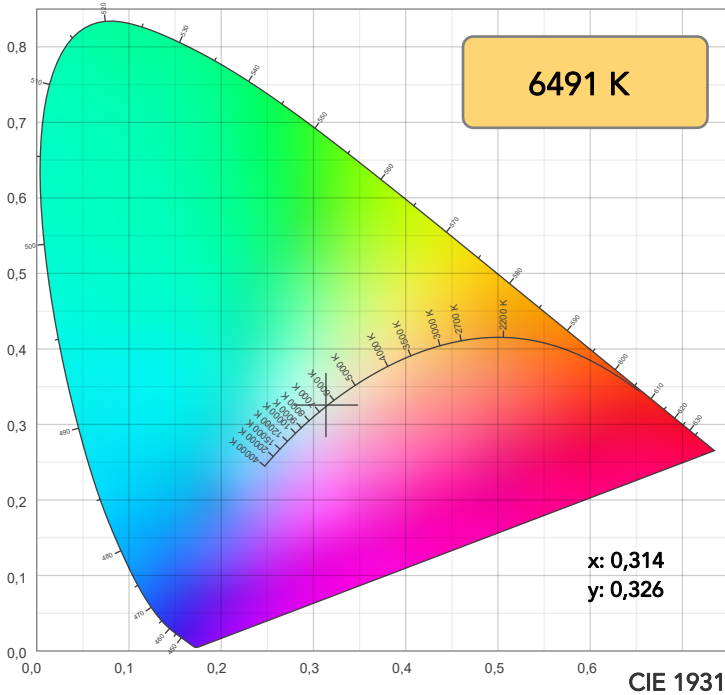


Beam angle 50%: 62,4°
Field angle 10%: 101,2°
Cut off angle 2.5%: 129,5°

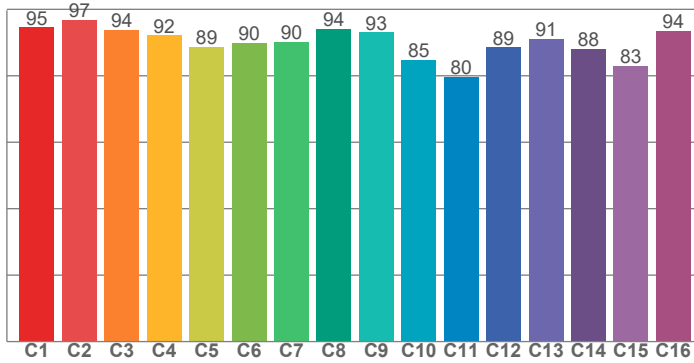
Spectra



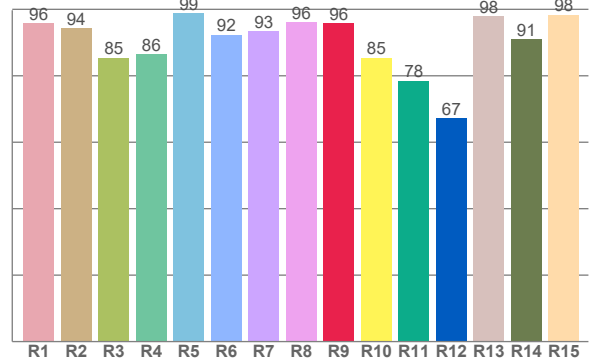
COLOR DETAILS



TM30: 90,1



CRI: 92,8 (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
95,8	94,2	85,5	86,4	98,8	92,3	93,4	96,0	95,8	85,5	78,5	67,3	97,8	91,0	98,3

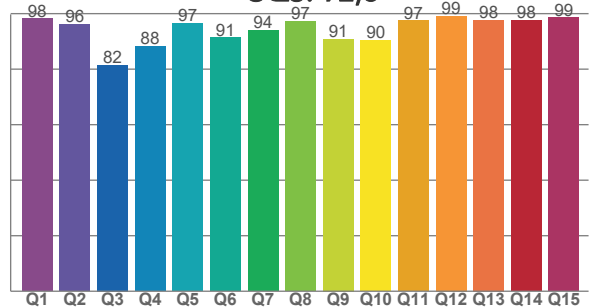
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,6	96,2	93,7	92,1	88,7	89,9	90,2	94,2	93,0	84,8	79,7	88,6	91,1	88,1	83,0	93,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	96,2	81,6	88,3	96,5	91,4	94,0	97,2	90,9	90,4	97,5	99,2	97,7	97,6	98,6

CQS: 92,6



COLOR PARAMETERS

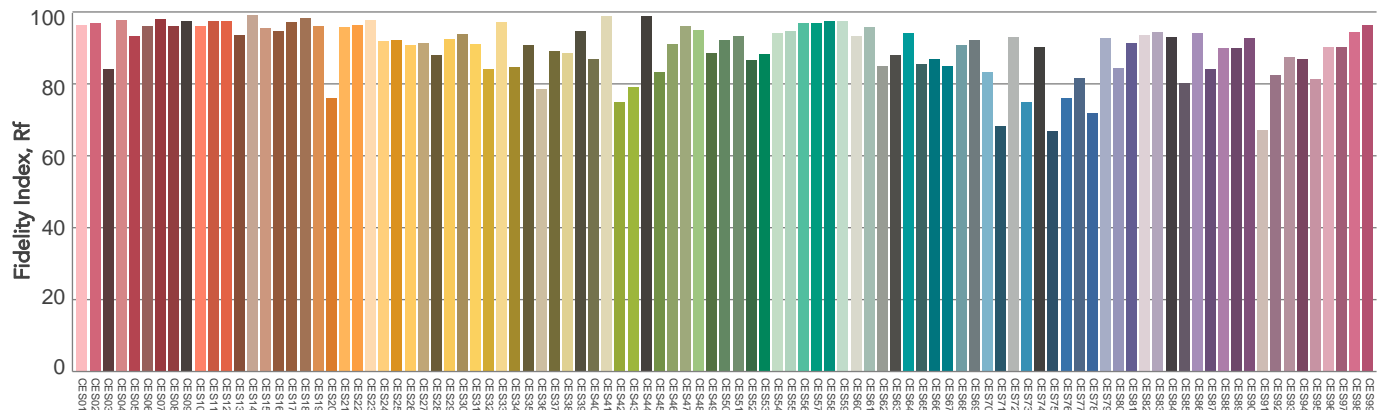
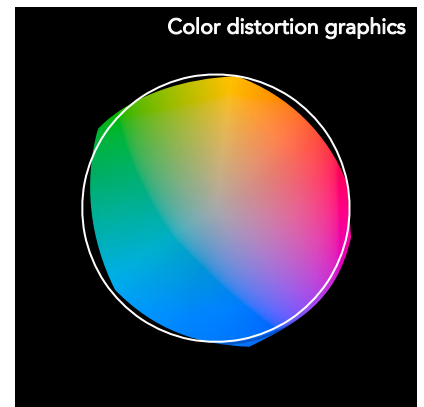
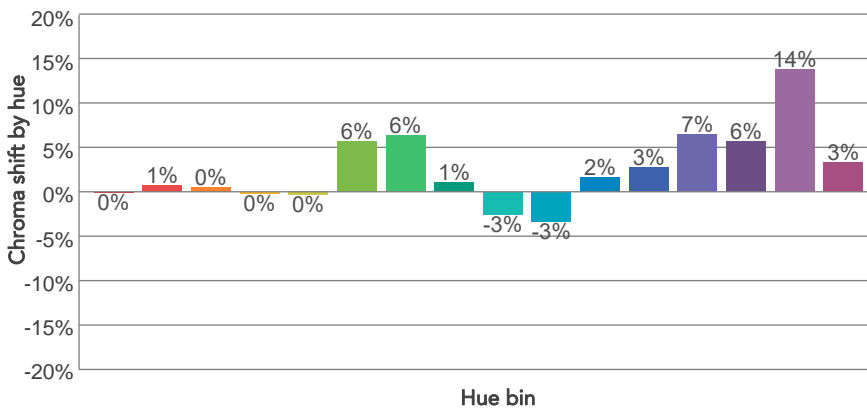
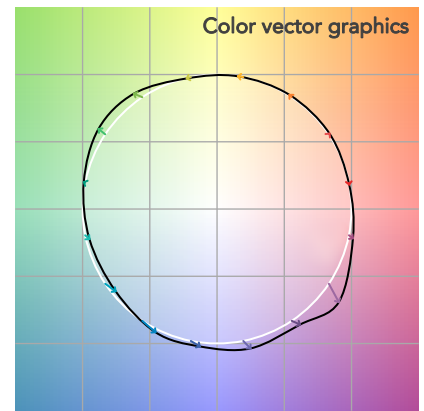
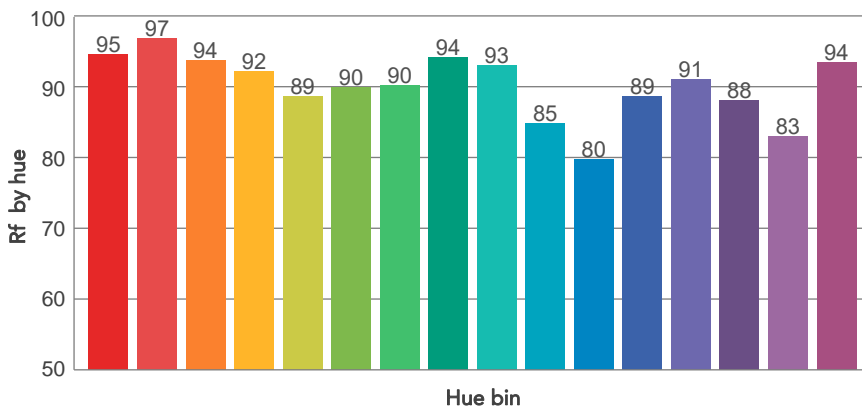
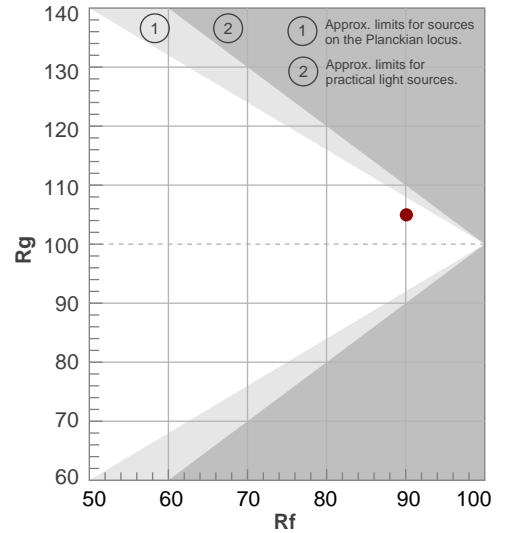
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6491 K	92,8	95,8	90,1	105,0	92,6	91	0,314	0,326	0,0022

TM30 DETAILS

Rf 90,1
Fidelity index Rf

Rg 105,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	1%	0%
3	94	0%	2%
4	92	0%	4%
5	89	0%	3%
6	90	6%	4%
7	90	6%	-1%
8	94	1%	0%
9	93	-3%	3%
10	85	-3%	9%
11	80	2%	13%
12	89	3%	7%
13	91	7%	4%
14	88	6%	4%
15	83	14%	-7%
16	94	3%	-2%

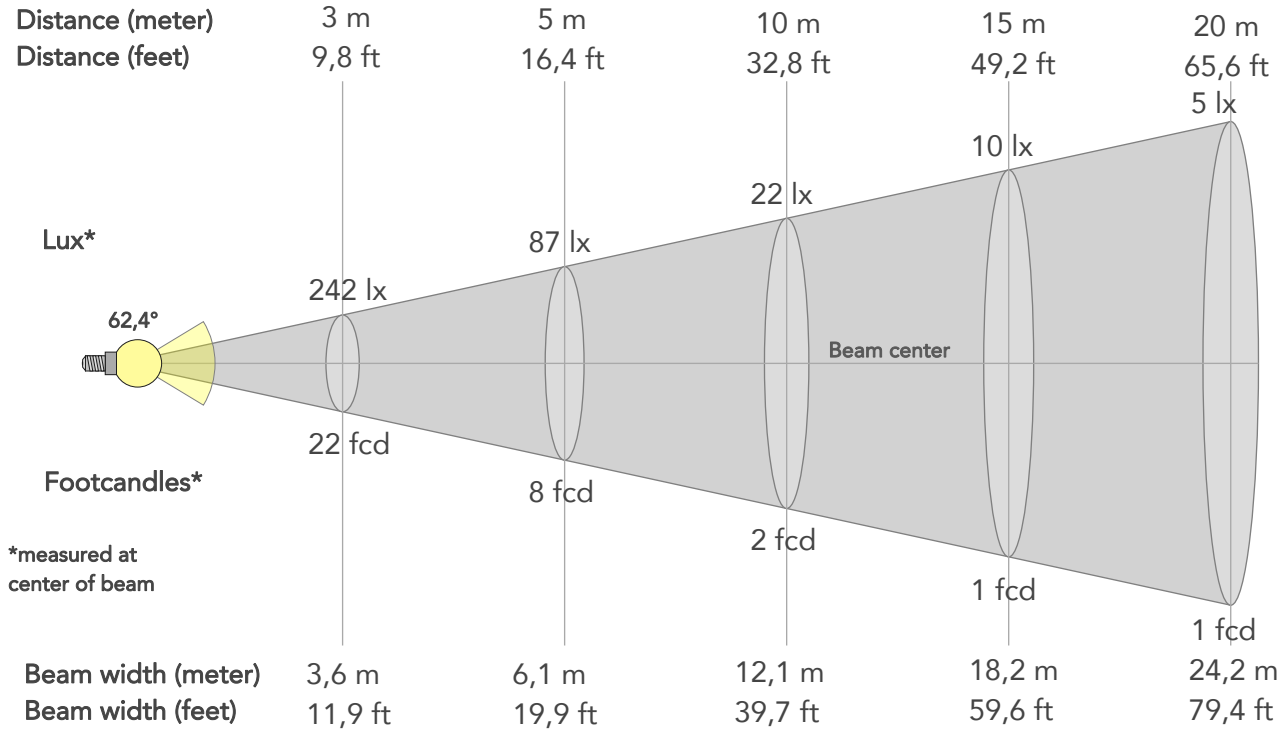


Color Evaluation Sample

BEAM DETAILS



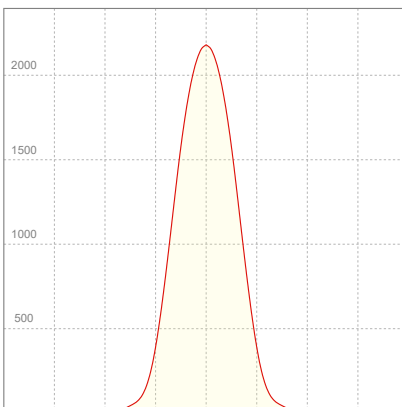
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,4°	101,2°	129,5°	96,6%	86,5%



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	2178lx	544lx	242lx	136lx	87lx	39lx	22lx	10lx	5lx	3lx	2lx	1lx	1lx
Footcand.	202fcd	51fcd	22fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6,1m	9,1m	12,1m	18,2m	24,2m	30,3m	36,3m	48,4m	60,6m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,8ft	39,7ft	59,6ft	79,4ft	99,3ft	119,2ft	158,9ft	198,6ft

LINEAR DISTRIBUTION DIAGRAM

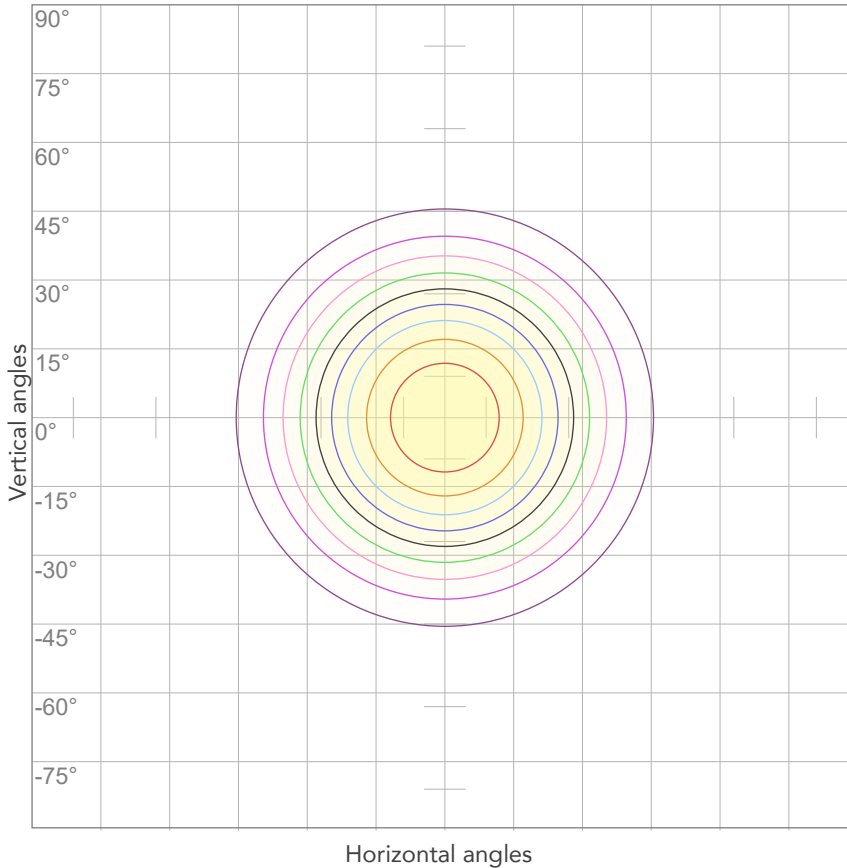


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,276A	58,2W	0,93	42lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



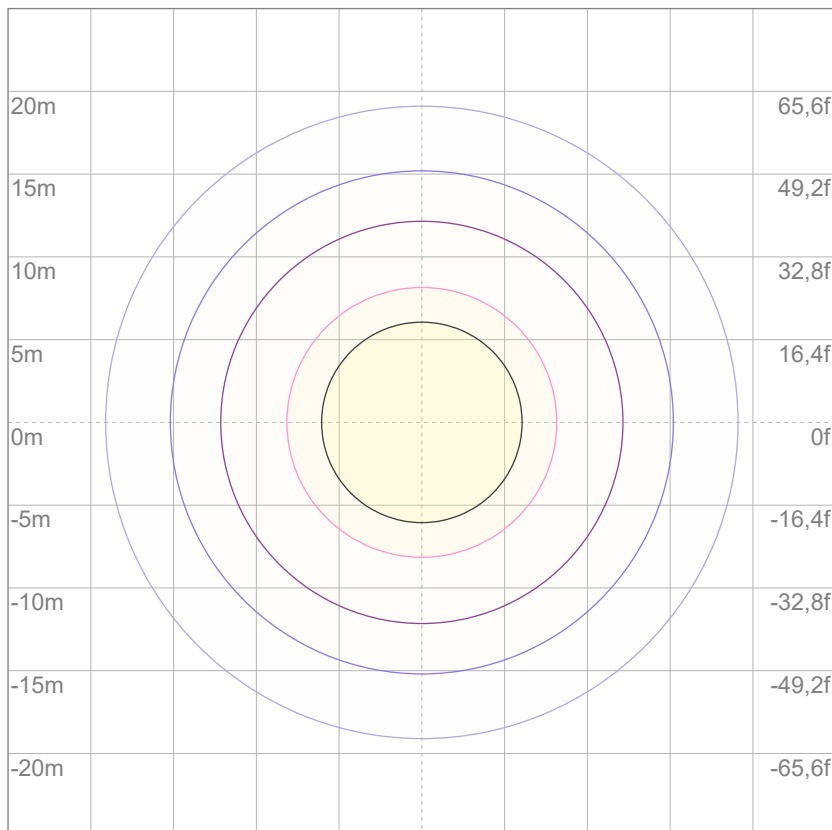
10%	218 cd
20%	436 cd
30%	653 cd
40%	871 cd
50%	1089 cd
60%	1307 cd
70%	1524 cd
80%	1742 cd

Conditions:

Number of c-planes: 2

Candela at center: 2178 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,653 lx
5%	1,09 lx
10%	2,18 lx
30%	6,53 lx
50%	10,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 21,8 lx

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



Total lumen output:

2418 lm

Peak candela output:

11848 cd

Light quality:

CRI: 92,7

Color temperature:

11925 K

PRODUCT NAME:
ECLPENDANTS FC

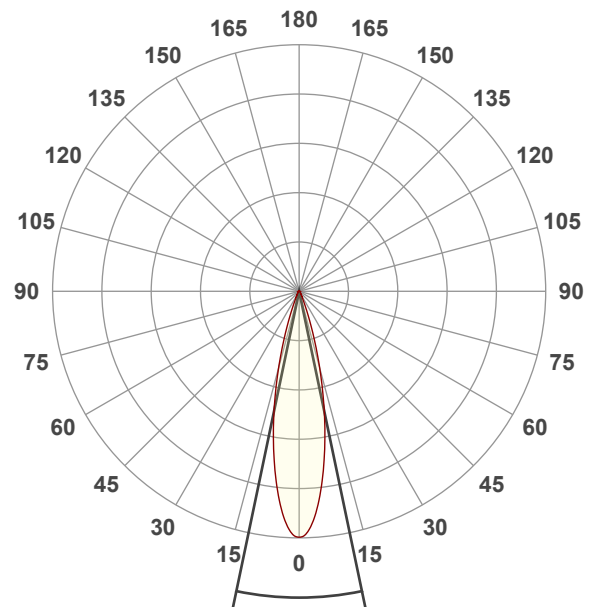
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
10000K

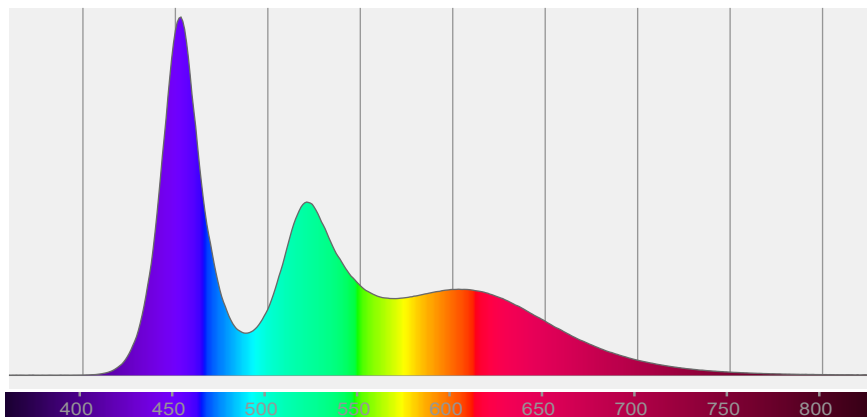
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:06:27

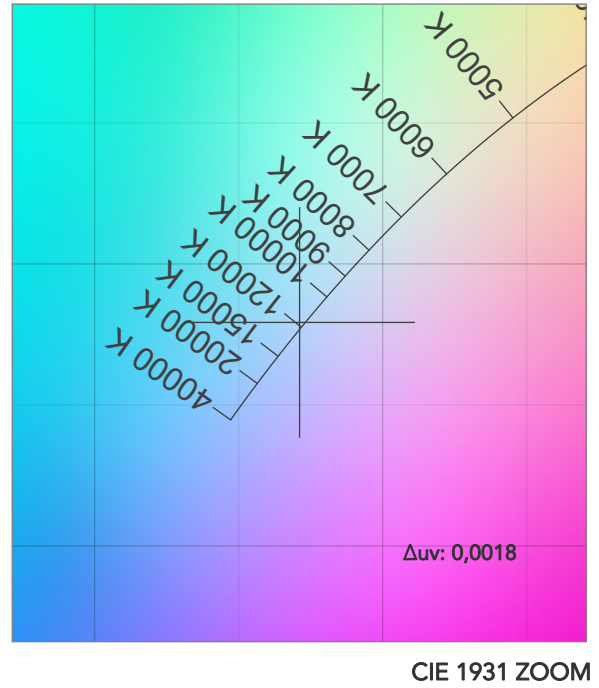
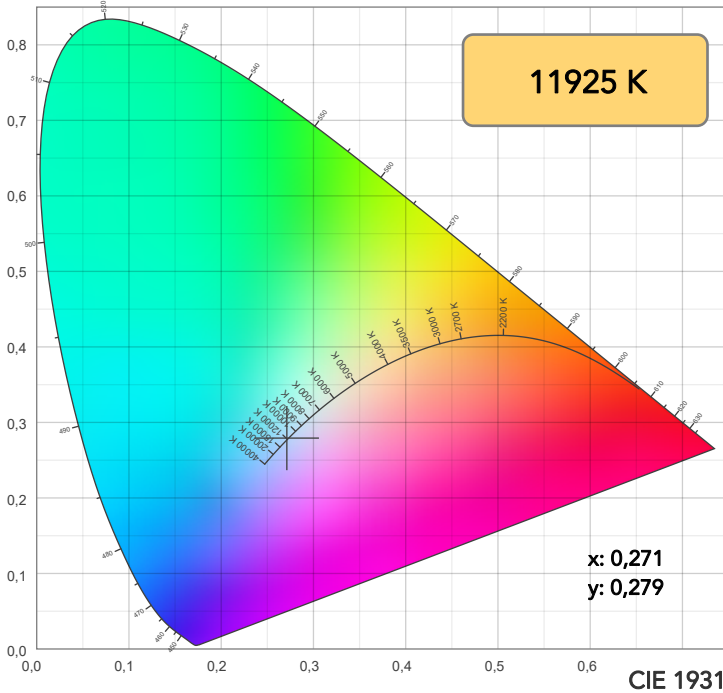


Beam angle 50%: 23,7°
Field angle 10%: 41,4°
Cut off angle 2.5%: 54,5°

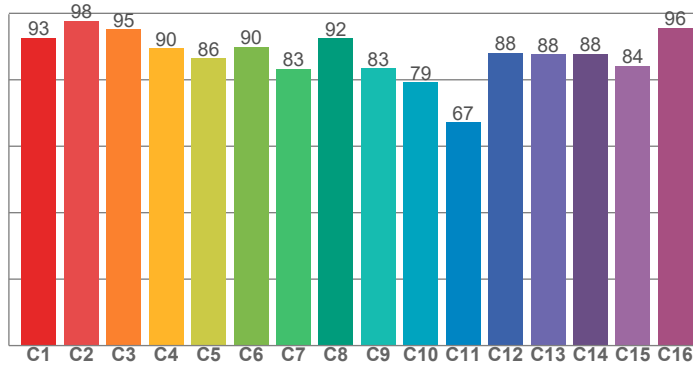
Spectra



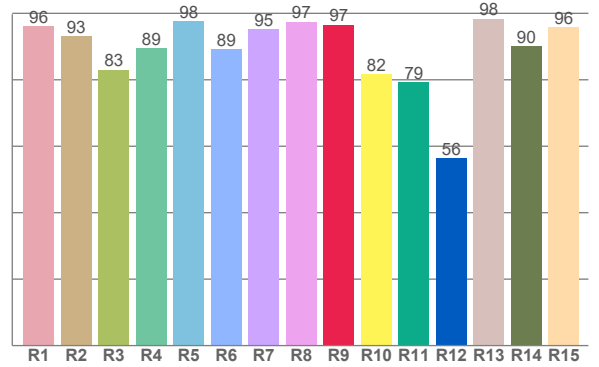
COLOR DETAILS



TM30: 87,9



CRI: 92,7 (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
96,1	93,2	83,1	89,5	97,7	89,2	95,1	97,5	96,6	81,6	79,2	56,5	98,4	90,1	95,8

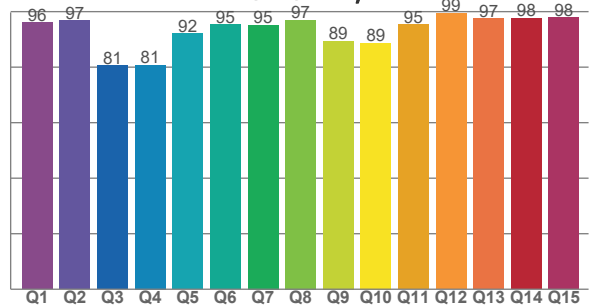
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,7	97,7	95,2	89,5	86,4	89,9	83,3	92,4	83,5	79,2	67,2	88,1	87,7	87,8	84,2	95,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	96,7	80,5	80,7	92,0	95,4	95,1	97,0	89,4	88,8	95,4	99,4	97,5	97,6	97,8

CQS: 91,2



COLOR PARAMETERS

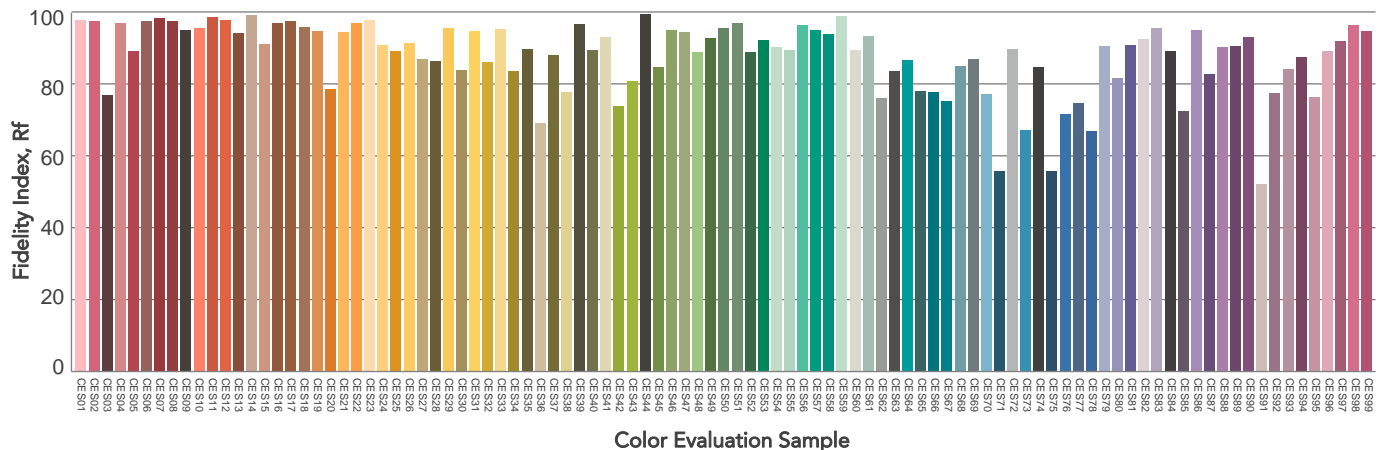
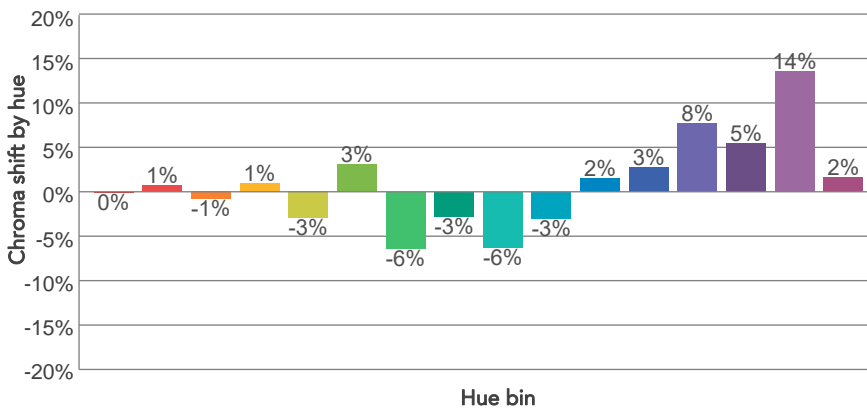
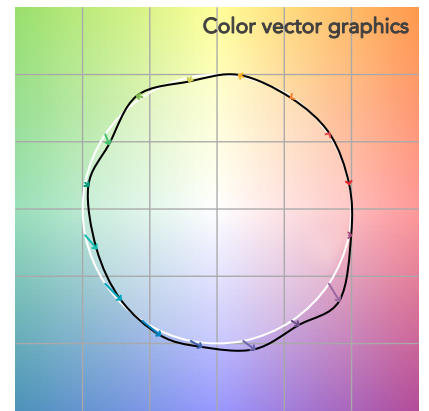
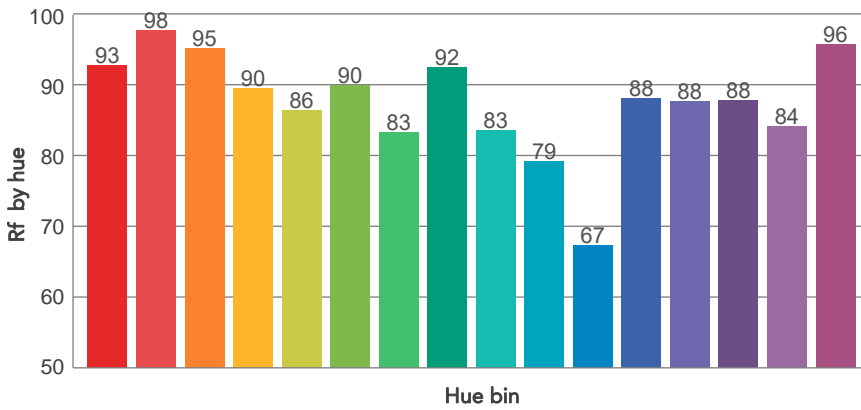
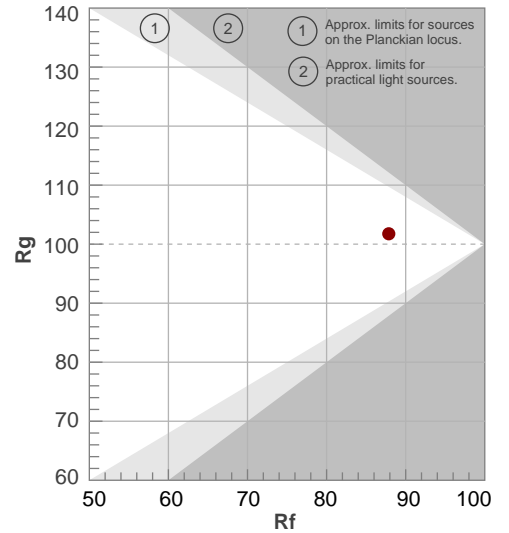
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
11925 K	92,7	96,6	87,9	101,8	91,2	90	0,271	0,279	0,0018

TM30 DETAILS

Rf 87,9
Fidelity index Rf

Rg 101,8
Gammut index

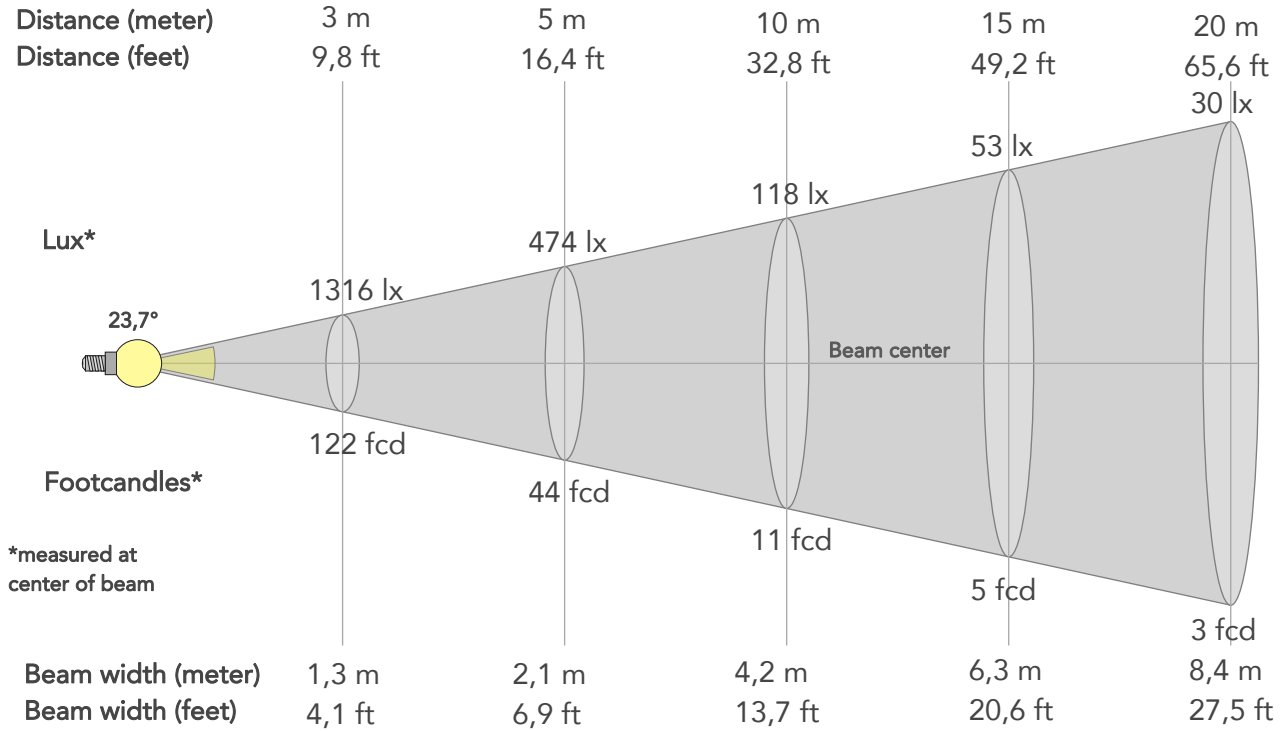
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-1%
2	98	1%	0%
3	95	-1%	0%
4	90	1%	4%
5	86	-3%	2%
6	90	3%	3%
7	83	-6%	4%
8	92	-3%	2%
9	83	-6%	11%
10	79	-3%	16%
11	67	2%	17%
12	88	3%	9%
13	88	8%	7%
14	88	5%	2%
15	84	14%	-6%
16	96	2%	0%



BEAM DETAILS



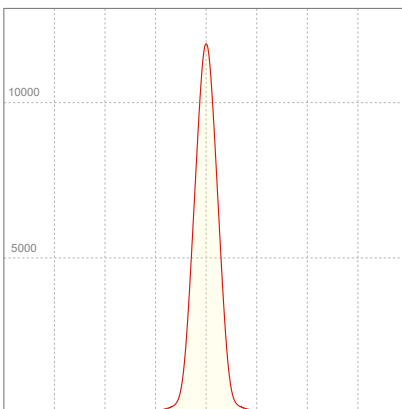
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,7°	41,4°	54,5°	98,1%	94,9%



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	11848lx	2962lx	1316lx	741lx	474lx	211lx	118lx	53lx	30lx	19lx	13lx	7lx	5lx
Footcand.	1101fcd	275fcd	122fcd	69fcd	44fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,1m	4,2m	6,3m	8,4m	10,5m	12,6m	16,8m	20,9m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,3ft	13,7ft	20,6ft	27,5ft	34,3ft	41,2ft	54,9ft	68,7ft

LINEAR DISTRIBUTION DIAGRAM

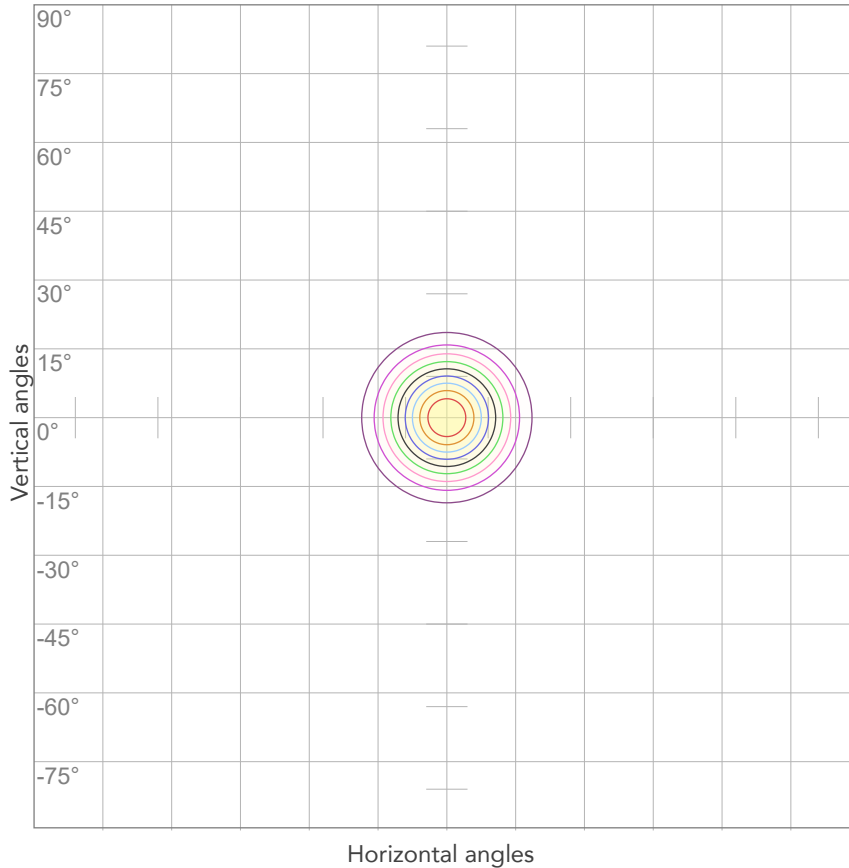


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,278A	58,4W	0,93	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



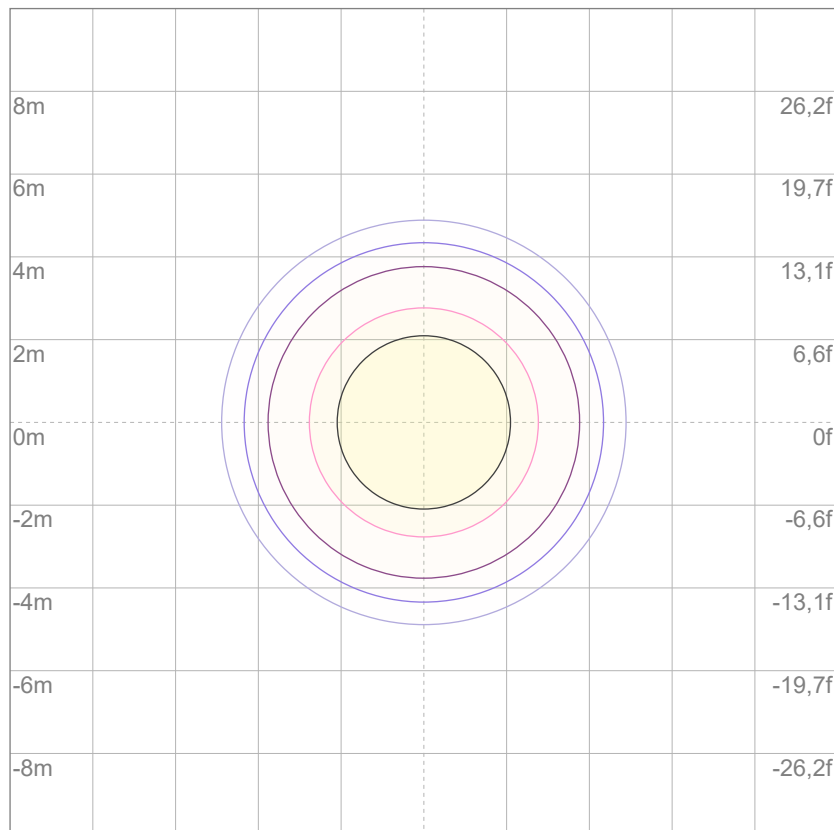
10%	1185 cd
20%	2370 cd
30%	3554 cd
40%	4739 cd
50%	5924 cd
60%	7109 cd
70%	8294 cd
80%	9479 cd

Conditions:

Number of c-planes: 2

Candela at center: 11848 cd

ISO LUX DIAGRAM



3%	3,55 lx
5%	5,92 lx
10%	11,8 lx
30%	35,5 lx
50%	59,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 118 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

2412 lm

Peak candela output:

3982 cd

Light quality:

CRI: 92,7

Color temperature:

11912 K

PRODUCT NAME:
ECLPENDANTS FC

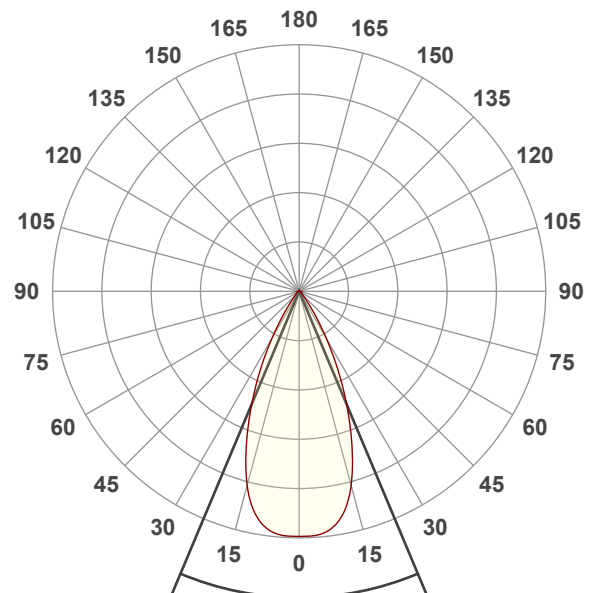
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
10000K

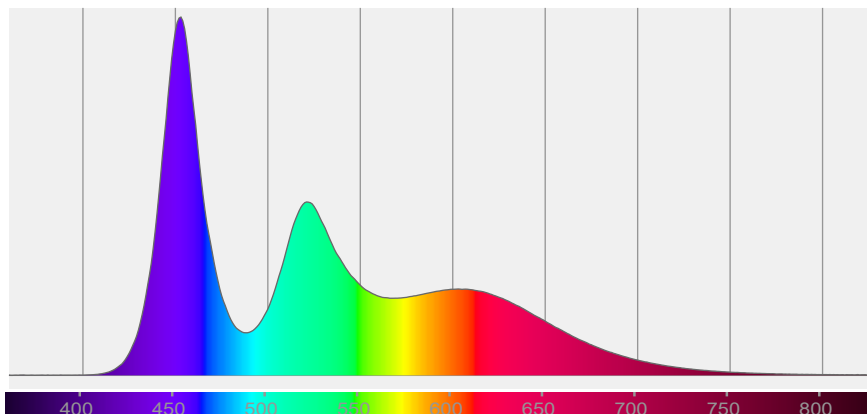
Operator:
Salvatore Giglio

Date and time:
06/02/2024 11:20:36

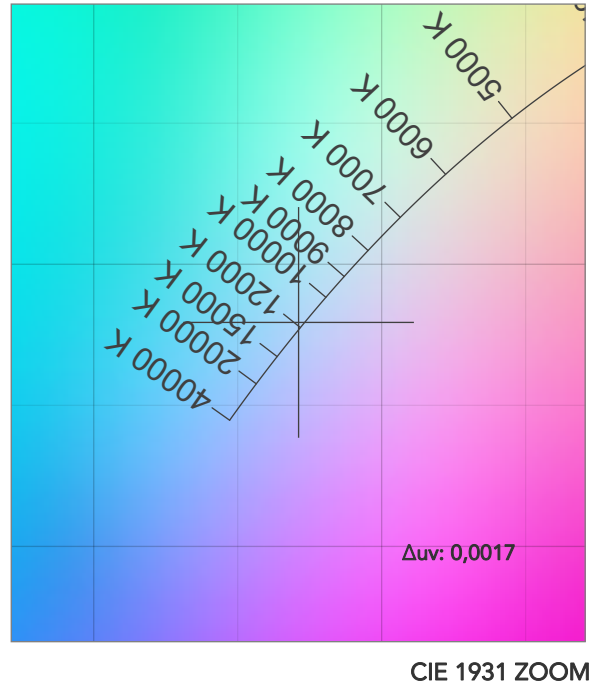
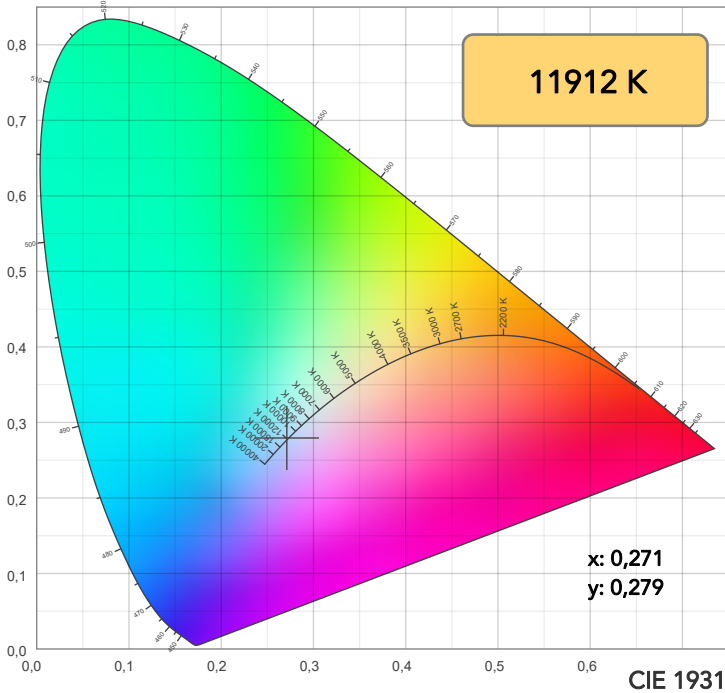


Beam angle 50%: 45,6°
Field angle 10%: 69,5°
Cut off angle 2.5%: 86,7°

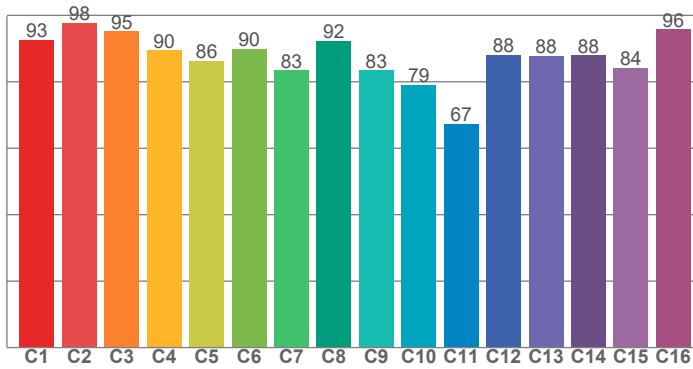
Spectra



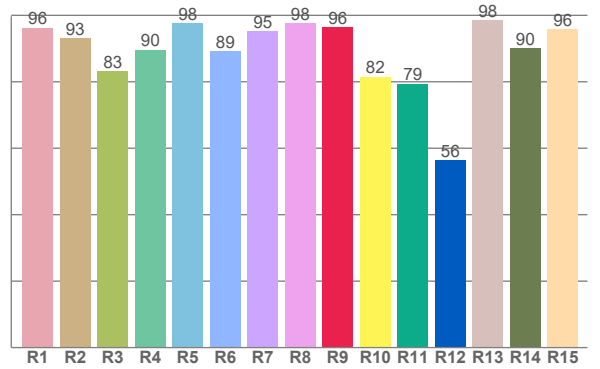
COLOR DETAILS



TM30: 87,9



CRI: 92,7 (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
96,2	93,2	83,1	89,7	97,6	89,2	95,2	97,6	96,3	81,6	79,4	56,4	98,5	90,2	95,8

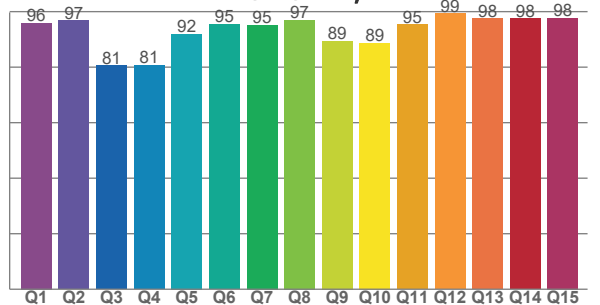
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	97,8	95,1	89,5	86,4	90,0	83,4	92,4	83,4	79,1	67,3	88,1	87,7	87,9	84,2	95,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	96,8	80,5	80,7	91,9	95,4	95,1	97,0	89,4	88,8	95,4	99,4	97,5	97,5	97,8

CQS: 91,1



COLOR PARAMETERS

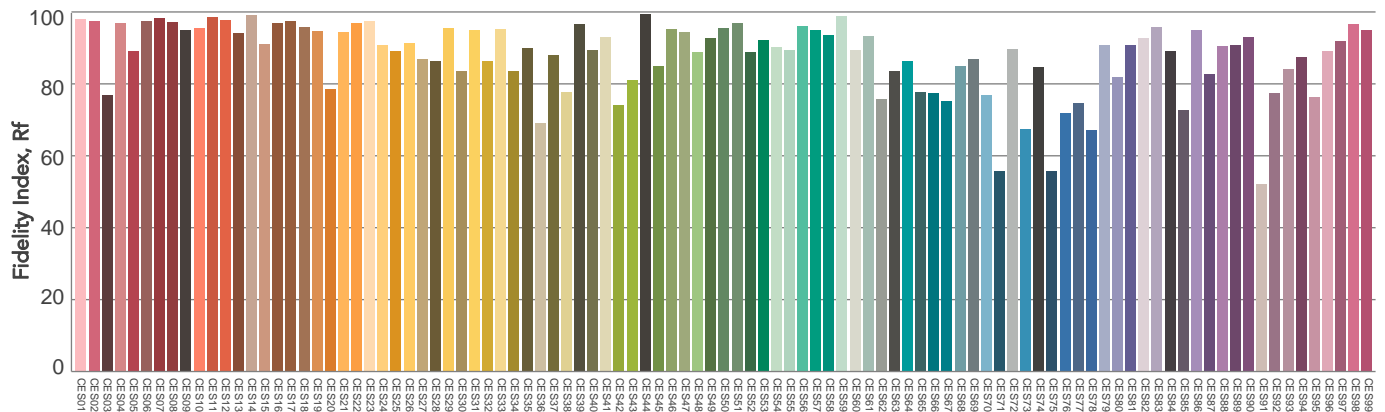
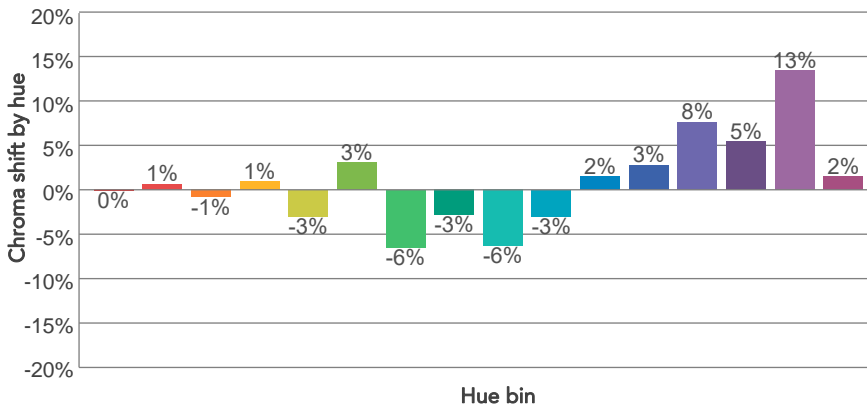
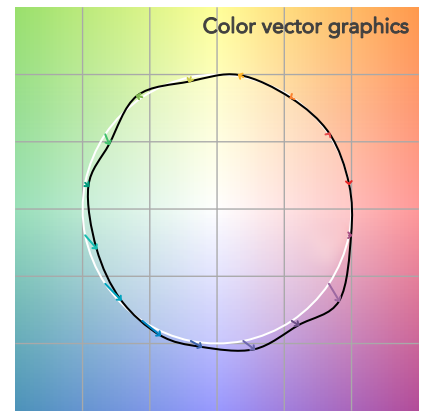
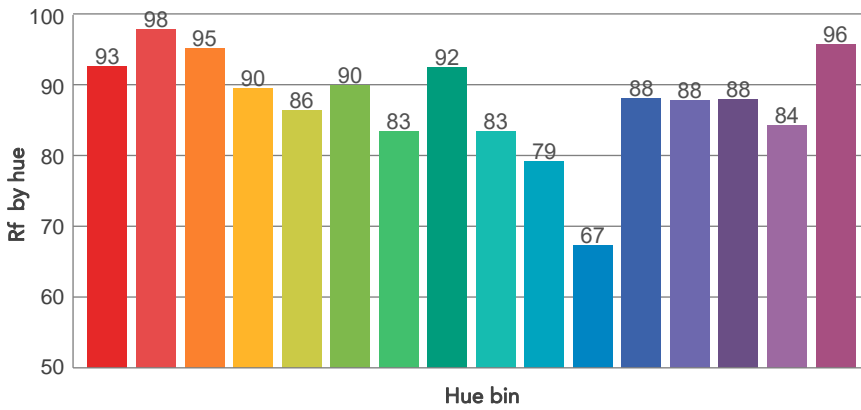
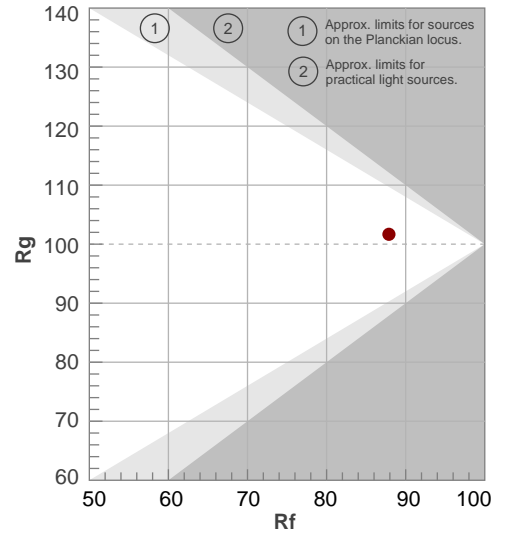
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
11912 K	92,7	96,3	87,9	101,7	91,1	90	0,271	0,279	0,0017

TM30 DETAILS

Rf 87,9
Fidelity index Rf

Rg 101,7
Gammut index

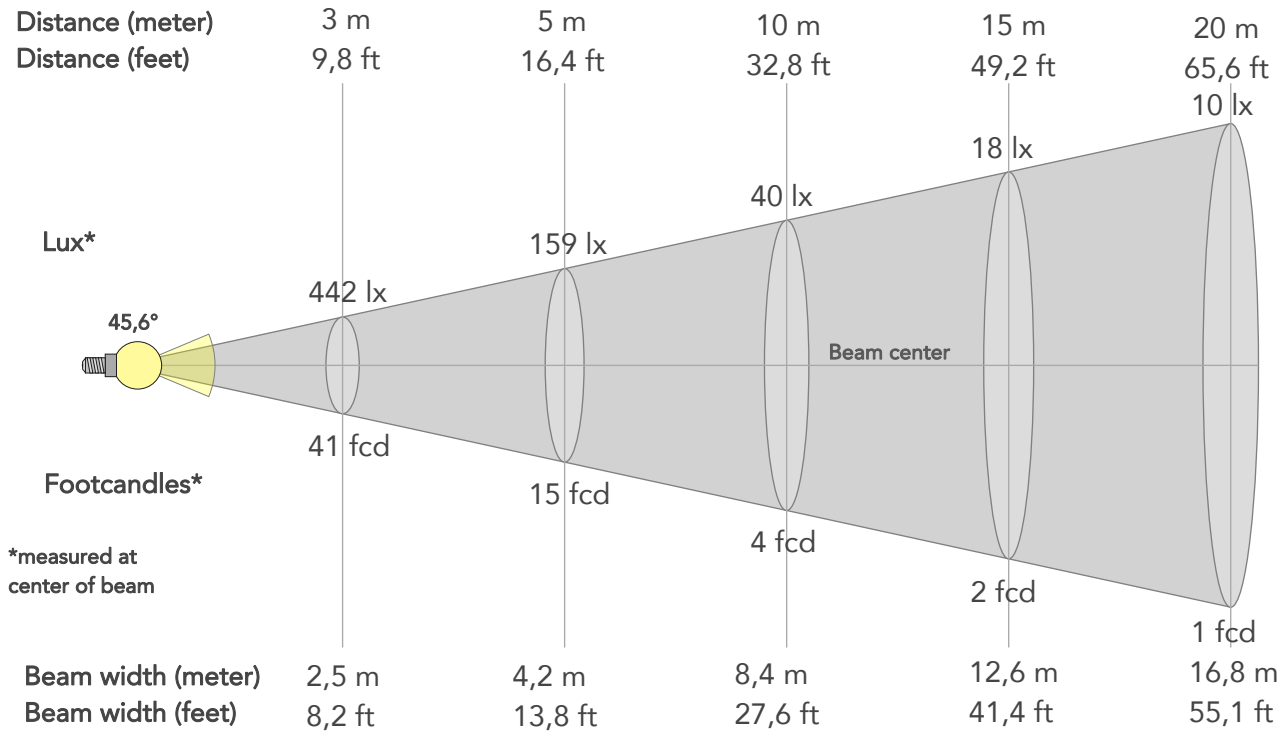
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-1%
2	98	1%	0%
3	95	-1%	0%
4	90	1%	4%
5	86	-3%	2%
6	90	3%	3%
7	83	-6%	4%
8	92	-3%	2%
9	83	-6%	11%
10	79	-3%	16%
11	67	2%	17%
12	88	3%	8%
13	88	8%	7%
14	88	5%	2%
15	84	13%	-6%
16	96	2%	0%



BEAM DETAILS



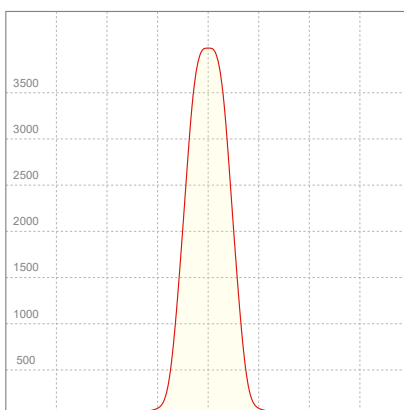
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45,6°	69,5°	86,7°	98,4%	95,3%



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	3982lx	995lx	442lx	249lx	159lx	71lx	40lx	18lx	10lx	6lx	4lx	2lx	2lx
Footcand.	370fcd	92fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,8m	1,7m	2,5m	3,4m	4,2m	6,3m	8,4m	12,6m	16,8m	21m	25,2m	33,6m	42m
Beam wid.	2,8ft	5,5ft	8,2ft	11ft	13,8ft	20,7ft	27,6ft	41,4ft	55,1ft	68,9ft	82,7ft	110,3ft	137,8ft

LINEAR DISTRIBUTION DIAGRAM

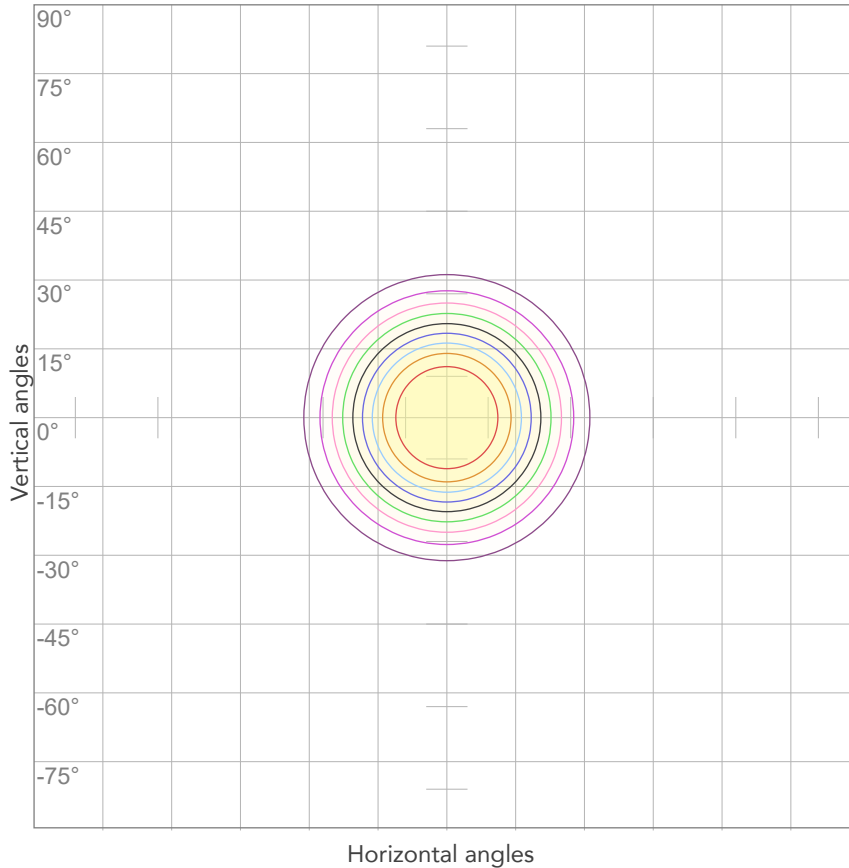


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,278A	58,3W	0,93	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



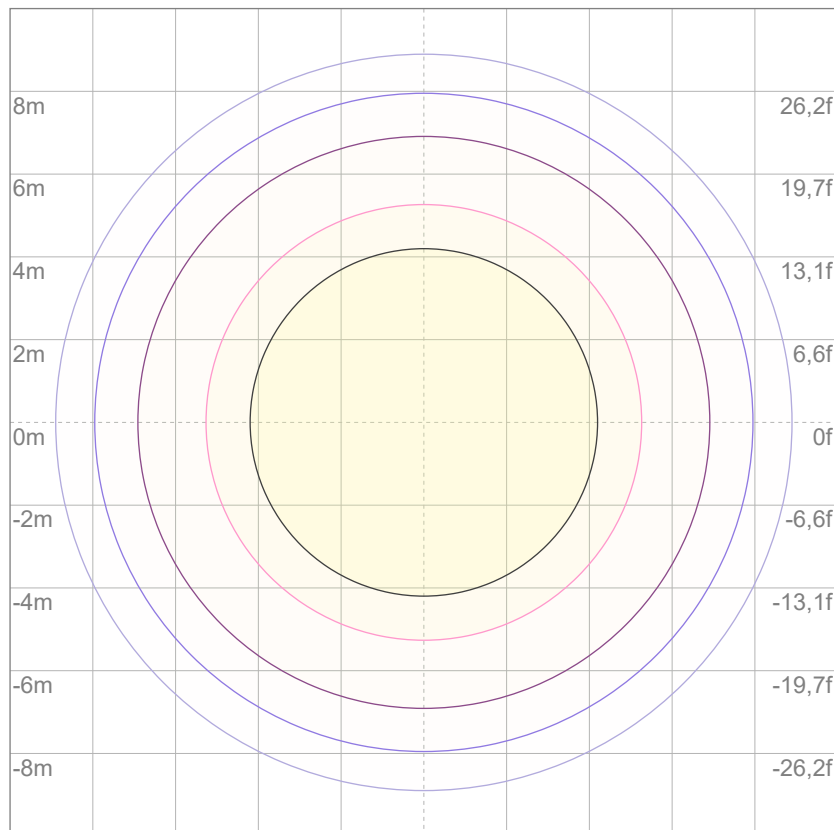
10%	398 cd
20%	796 cd
30%	1194 cd
40%	1593 cd
50%	1991 cd
60%	2389 cd
70%	2787 cd
80%	3185 cd

Conditions:

Number of c-planes: 2

Candela at center: 3982 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,19 lx
5%	1,99 lx
10%	3,98 lx
30%	11,9 lx
50%	19,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 39,8 lx

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



Total lumen output:

2238 lm

Peak candela output:

1975 cd

Light quality:

CRI: 92,7

Color temperature:

11974 K

PRODUCT NAME:
ECLPENDANTS FC

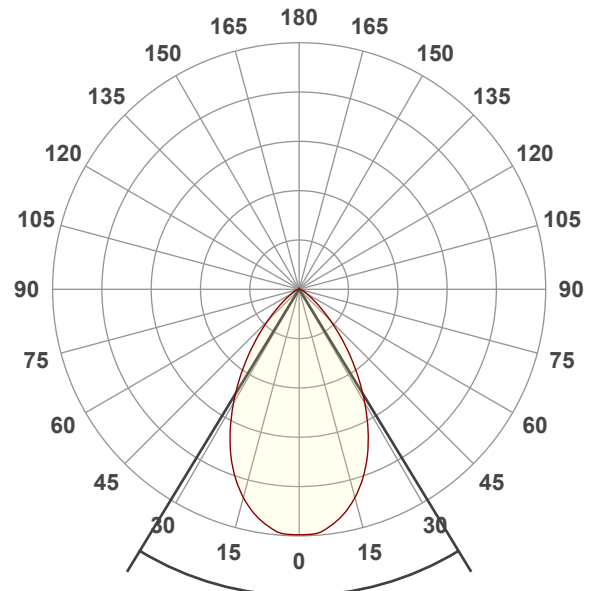
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
10000K

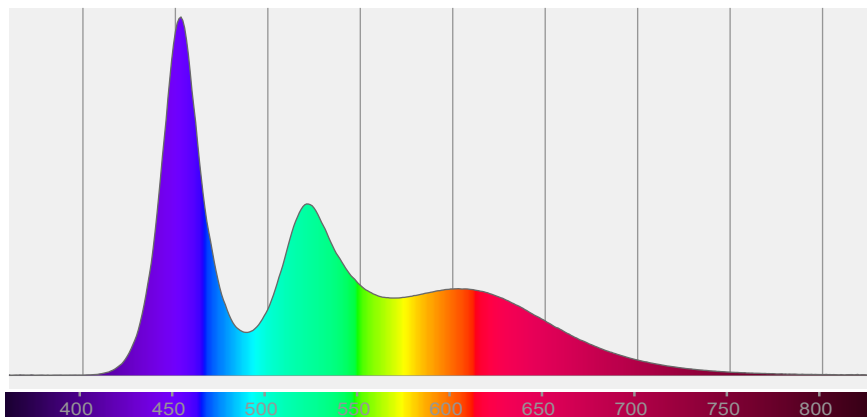
Operator:
Salvatore Giglio

Date and time:
06/02/2024 12:20:12

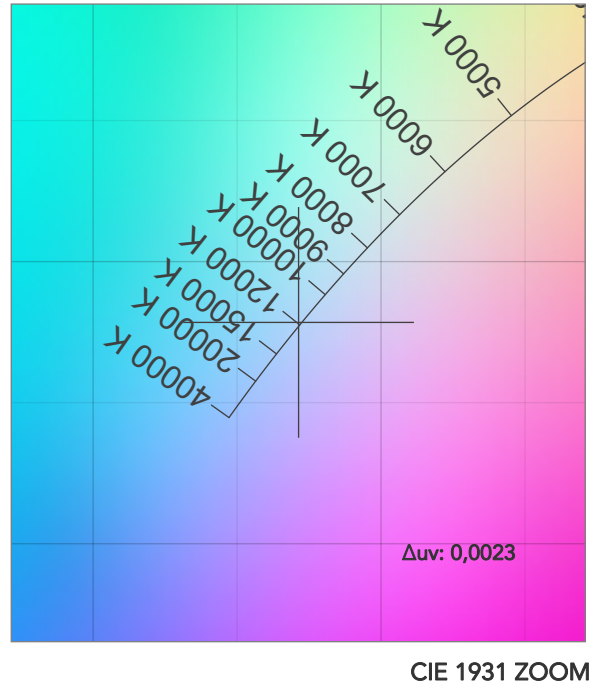
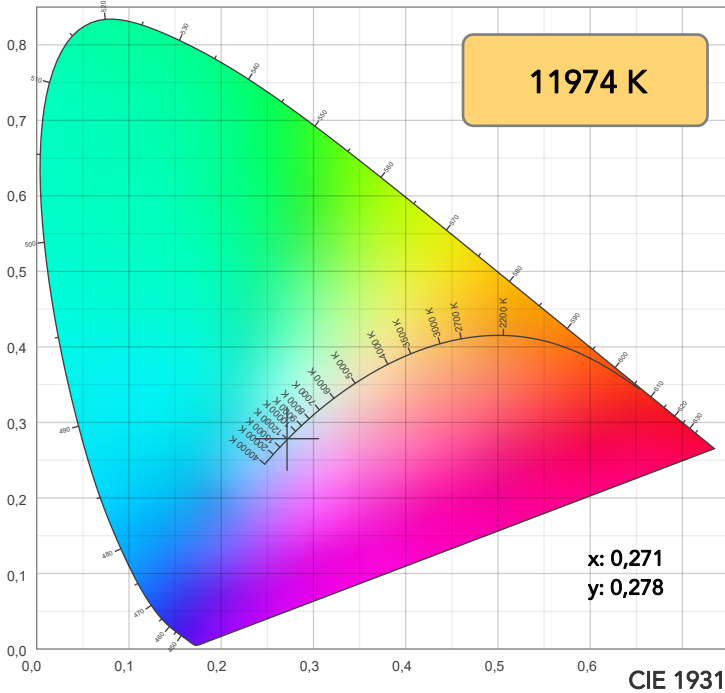


Beam angle 50%: 62,7°
Field angle 10%: 101,4°
Cut off angle 2.5%: 129,9°

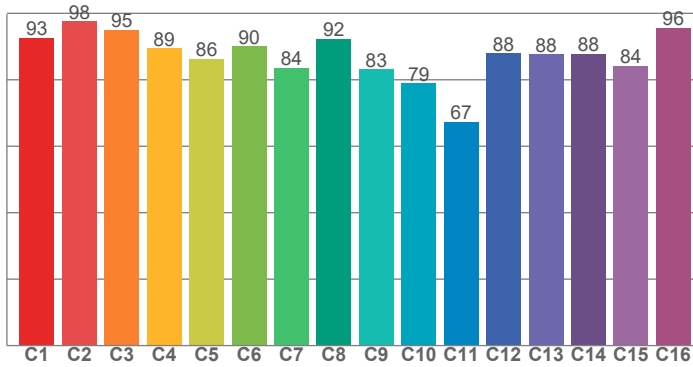
Spectra



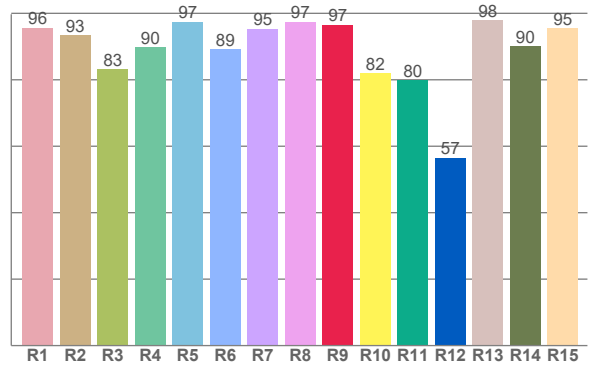
COLOR DETAILS



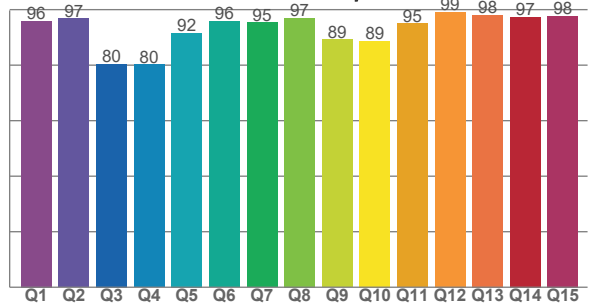
TM30: 87,8



CRI: 92,7 (R1-R8)



CQS: 91,0



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	93,4	83,1	89,9	97,5	89,2	95,4	97,5	96,6	82,0	79,8	56,6	98,0	90,1	95,4

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
92,6	97,5	95,0	89,4	86,3	90,0	83,6	92,3	83,2	78,9	67,3	88,0	87,7	87,8	84,3	95,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	96,8	80,4	80,2	91,5	95,8	95,4	97,0	89,2	88,6	95,0	99,2	98,0	97,4	97,7

COLOR PARAMETERS

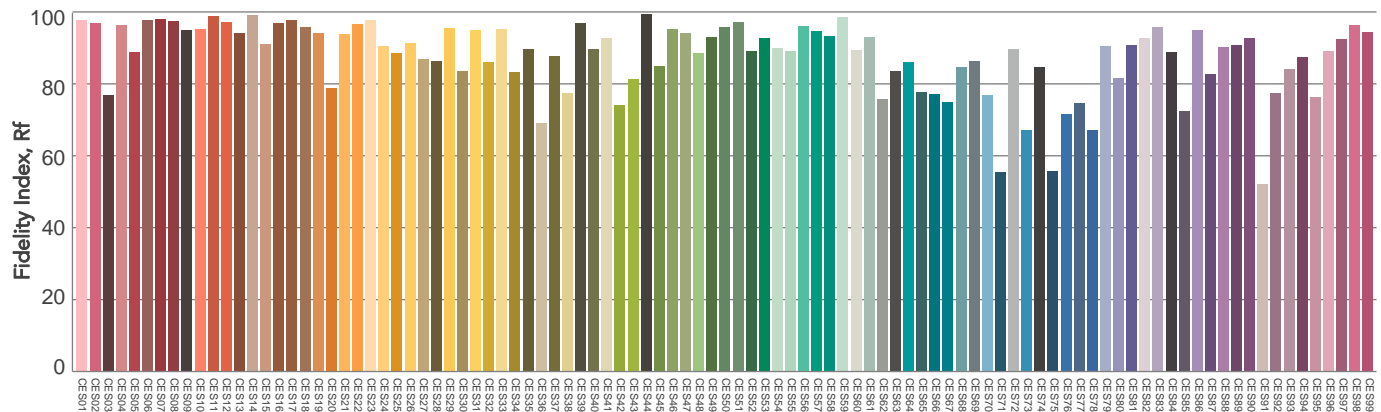
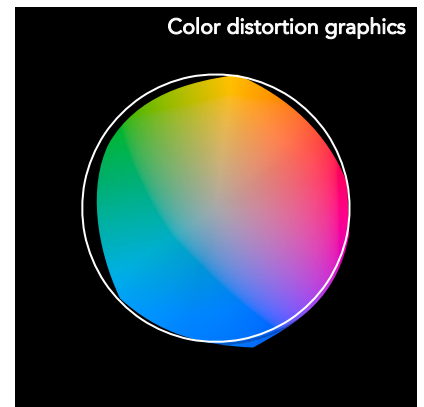
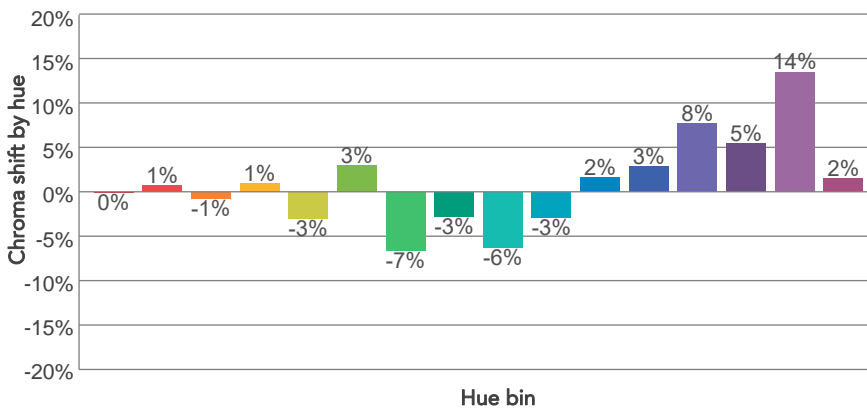
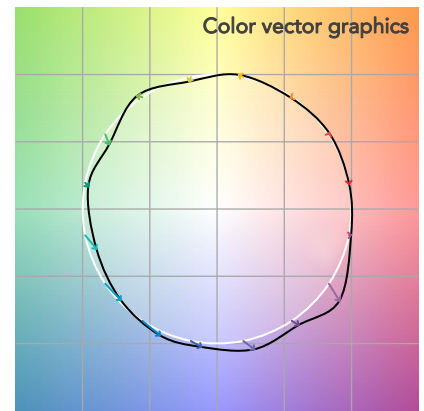
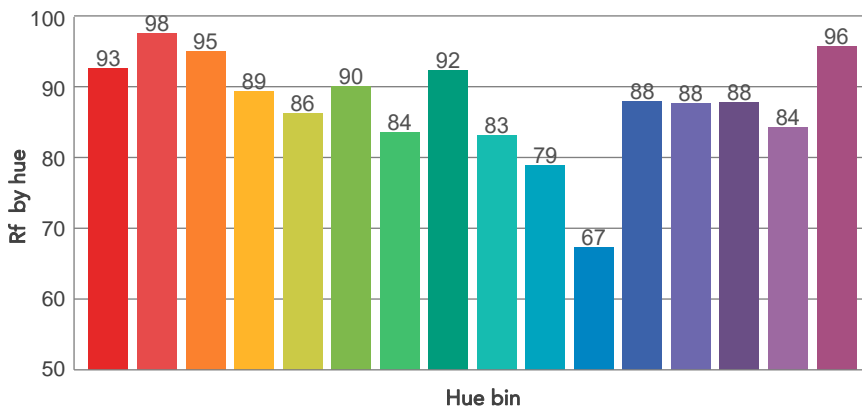
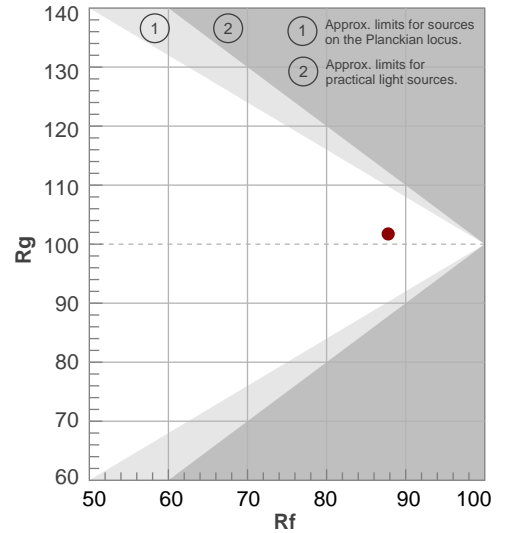
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
11974 K	92,7	96,6	87,8	101,7	91,0	90	0,271	0,278	0,0023

TM30 DETAILS

Rf 87,8
Fidelity index Rf

Rg 101,7
Gammut index

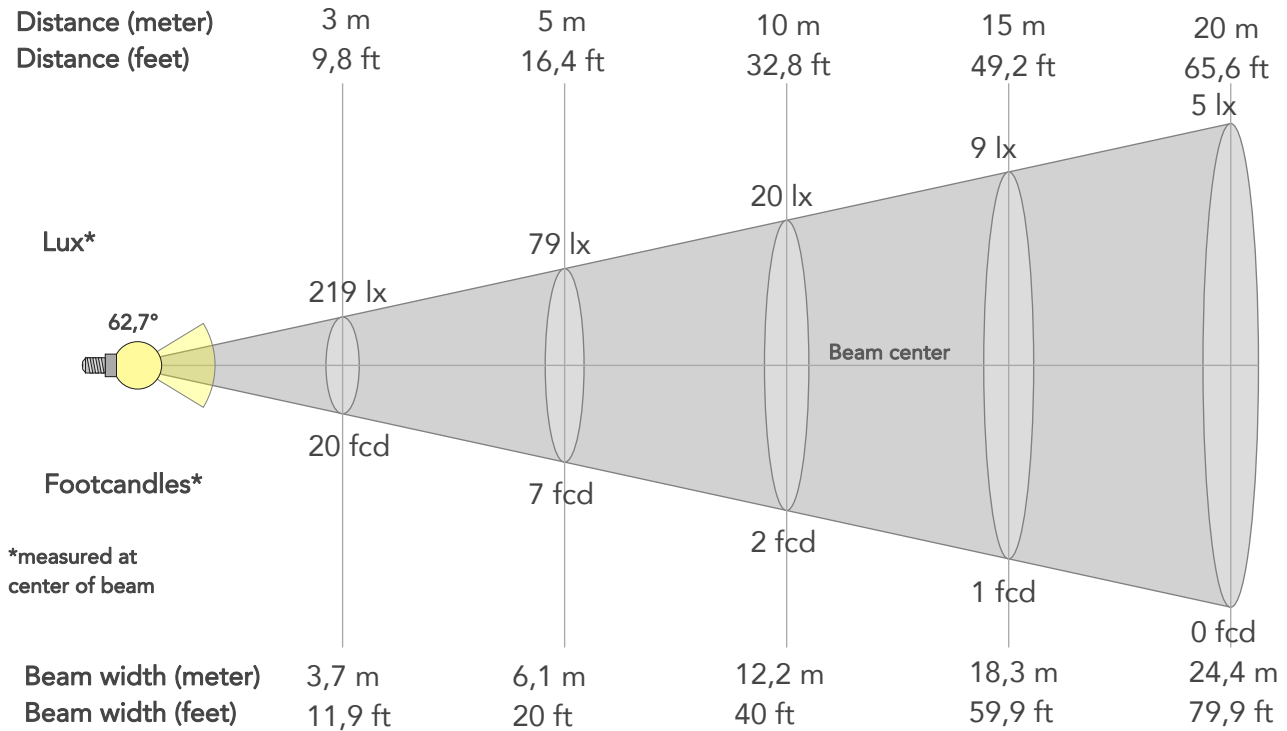
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-1%
2	98	1%	1%
3	95	-1%	1%
4	89	1%	4%
5	86	-3%	2%
6	90	3%	3%
7	84	-7%	5%
8	92	-3%	2%
9	83	-6%	11%
10	79	-3%	16%
11	67	2%	17%
12	88	3%	9%
13	88	8%	7%
14	88	5%	3%
15	84	14%	-6%
16	96	2%	0%



BEAM DETAILS



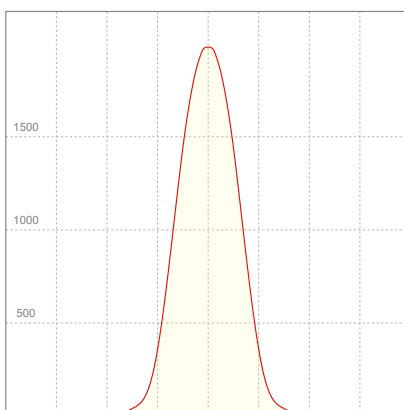
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,7°	101,4°	129,9°	96,5%	86,4%



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	1975lx	494lx	219lx	123lx	79lx	35lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	184fcd	46fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,7m	4,9m	6,1m	9,1m	12,2m	18,3m	24,4m	30,5m	36,5m	48,7m	60,9m
Beam wid.	4ft	8ft	11,9ft	16ft	20ft	30ft	40ft	59,9ft	79,9ft	99,9ft	119,9ft	159,8ft	199,8ft

LINEAR DISTRIBUTION DIAGRAM

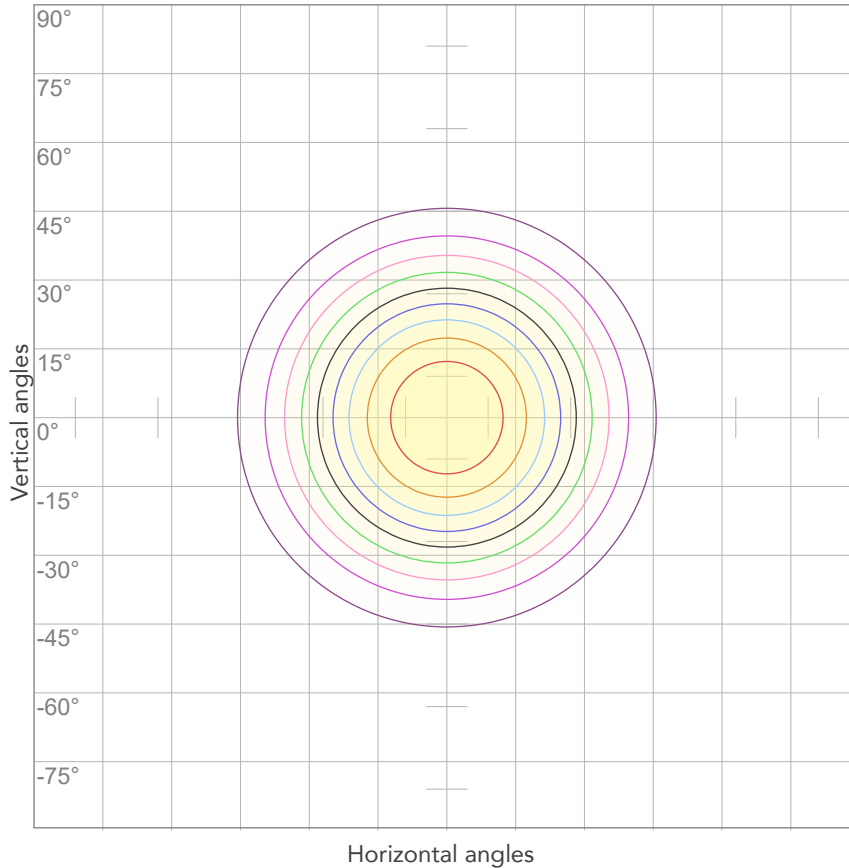


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,276A	58,2W	0,93	38lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



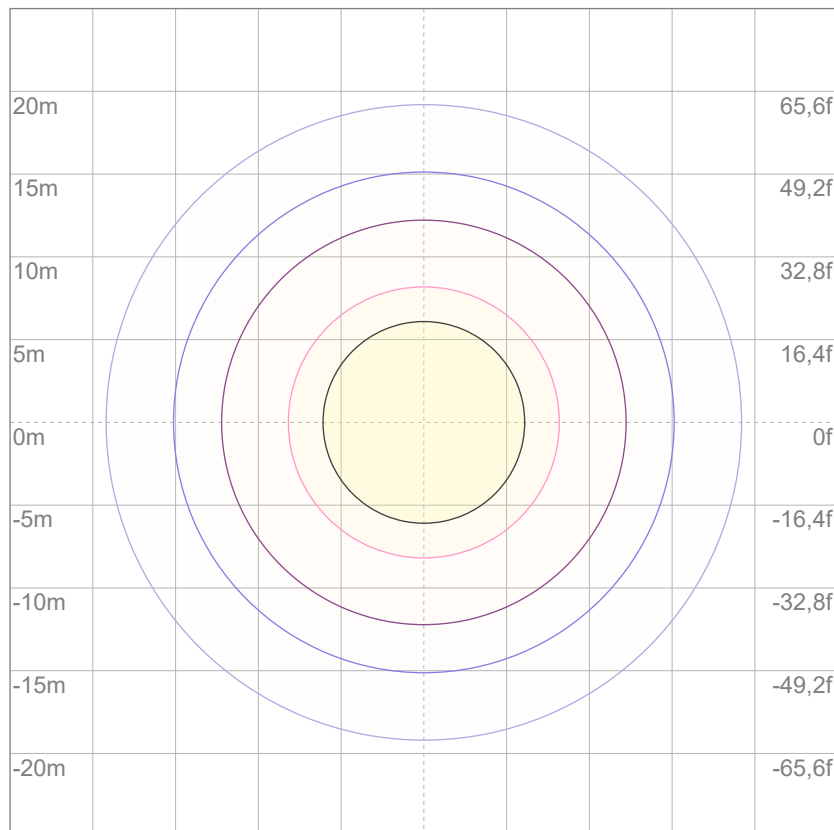
10%	198 cd
20%	395 cd
30%	593 cd
40%	790 cd
50%	988 cd
60%	1185 cd
70%	1383 cd
80%	1580 cd

Conditions:

Number of c-planes: 2

Candela at center: 1975 cd

ISO LUX DIAGRAM



3%	0,593 lx
5%	0,988 lx
10%	1,98 lx
30%	5,93 lx
50%	9,88 lx

Conditions:

Number of c-planes: 2

Lux at center: 19,8 lx

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

Mounting height: 10 meters (33 feet)