PROLiGHTS

Photometric Test Report

ECLPENDANTJR FC

100W RGB+Warm White

innovative pendant light

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TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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

Total lumen output:

5099 lm

Peak candela output:

19841 cd

PRODUCT NAME:

ECLPENDANTJR FC

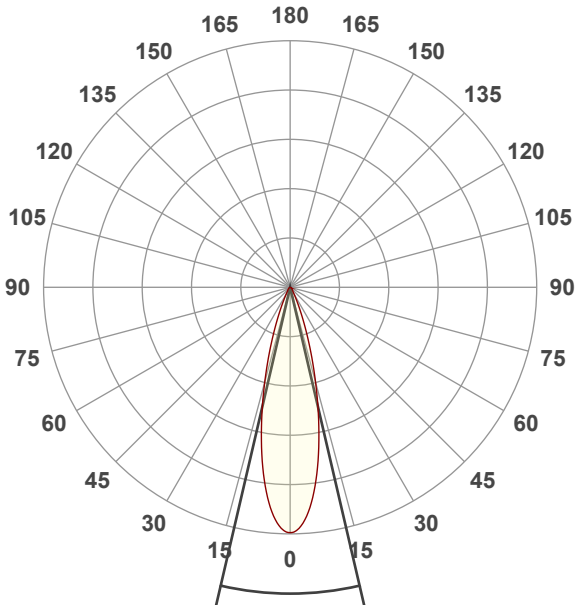
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Full On

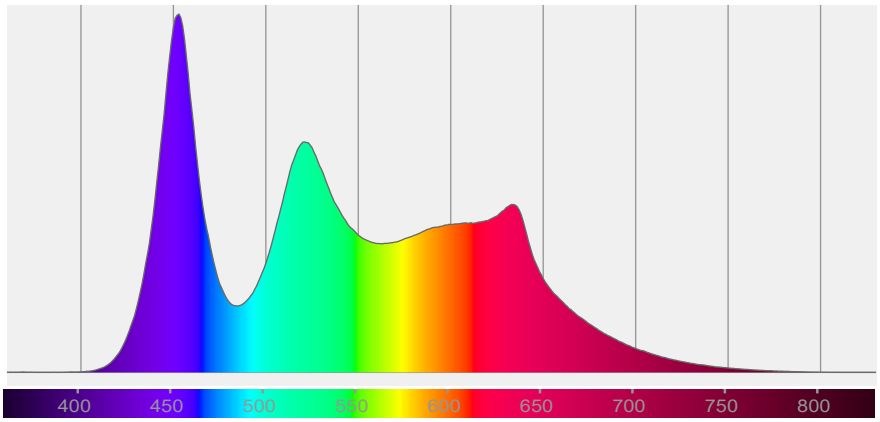
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:30:57



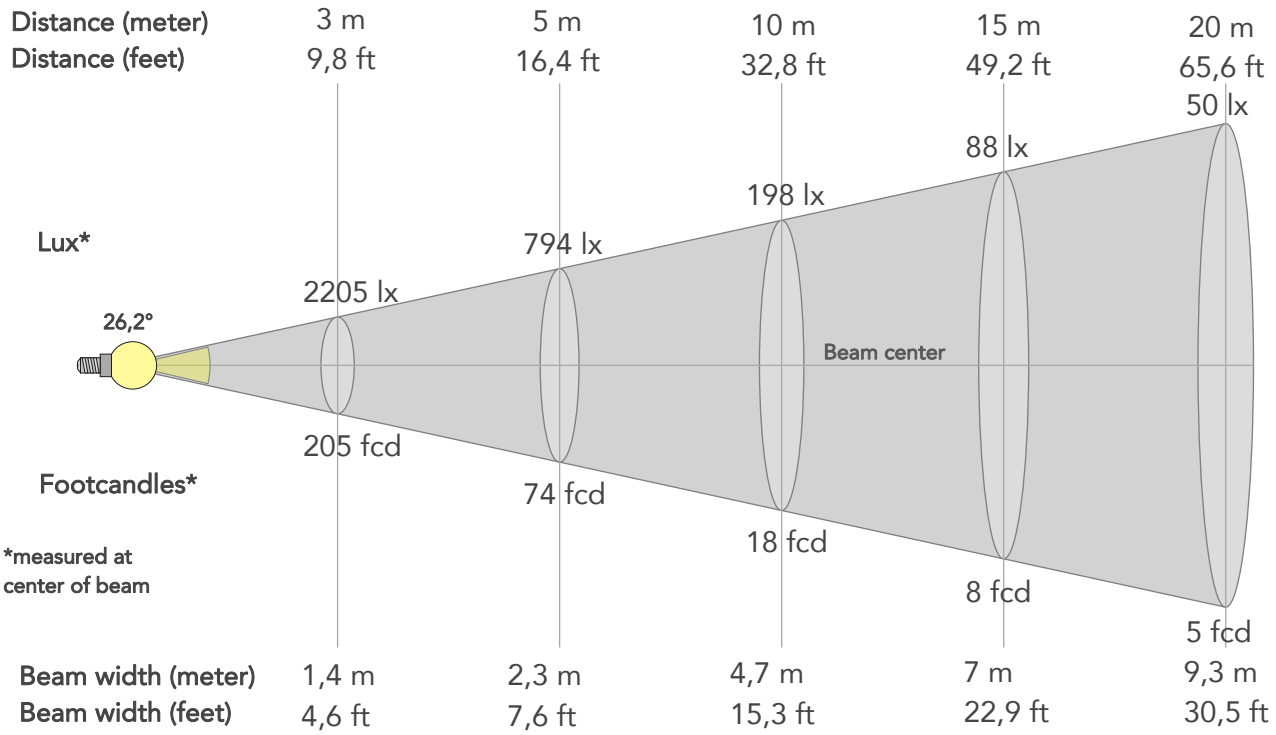
Beam angle 50%: 26,2°
Field angle 10%: 47,2°
Cut off angle 2.5%: 64,3°

Spectra



BEAM DETAILS

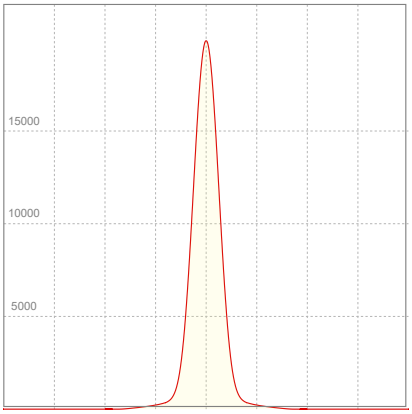
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,2°	47,2°	64,3°	98,7%	95,0%



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	19841lx	4960lx	2205lx	1240lx	794lx	353lx	198lx	88lx	50lx	32lx	22lx	12lx	8lx
Footcand.	1843fcd	461fcd	205fcd	115fcd	74fcd	33fcd	18fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,7m	7m	9,3m	11,6m	14m	18,6m	23,3m
Beam wid.	1,5ft	3,1ft	4,6ft	6,1ft	7,6ft	11,5ft	15,3ft	22,9ft	30,5ft	38,2ft	45,8ft	61,1ft	76,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,529A	111,1W	46lm/W

Power FC
0,93

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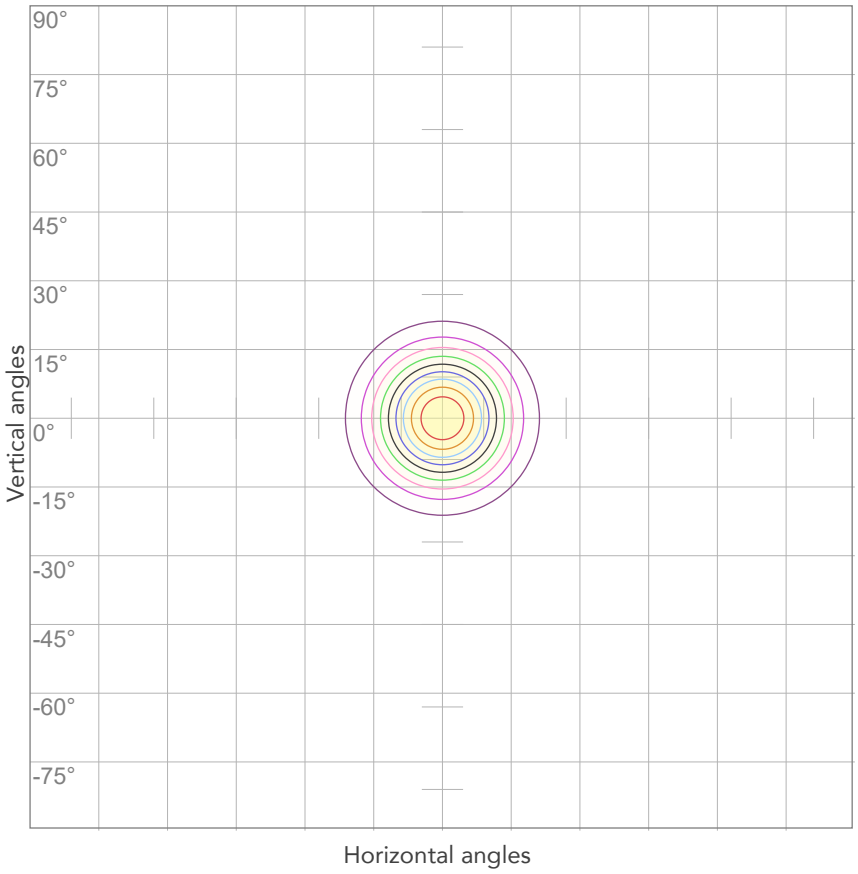
ISO DIAGRAMS

ISO CANDELA DIAGRAM



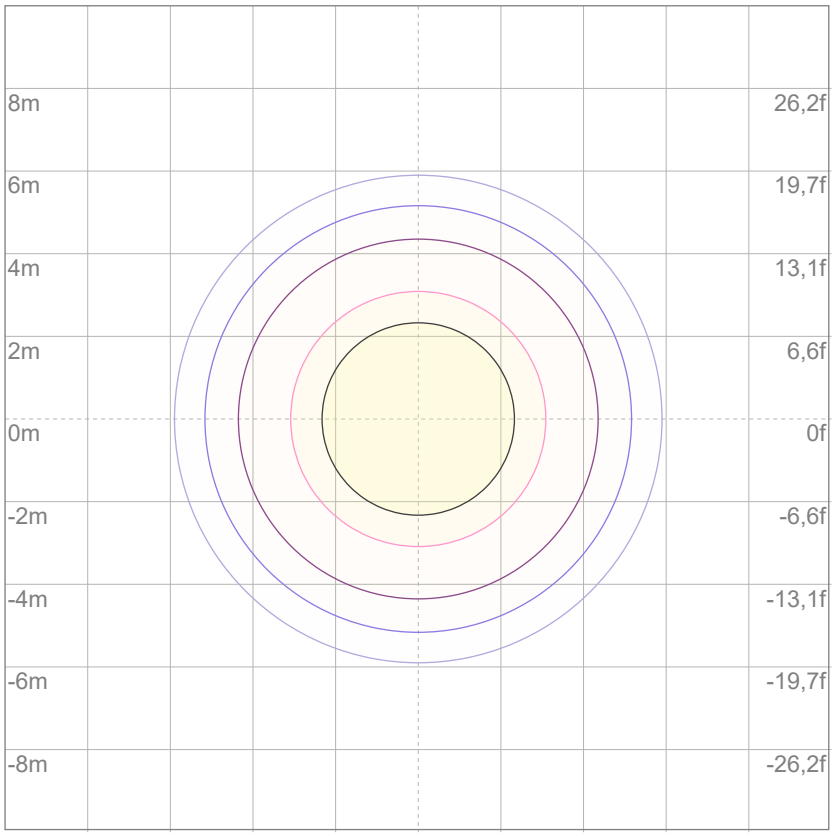
10%	1984 cd
20%	3968 cd
30%	5952 cd
40%	7936 cd
50%	9920 cd
60%	11905 cd
70%	13889 cd
80%	15873 cd

Conditions:

Number of c-planes: 2

Candela at center: 19841 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,95 lx
5%	9,92 lx
10%	19,8 lx
30%	59,5 lx
50%	99,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 198 lx

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

Total lumen output:

4987 lm

Peak candela output:

9141 cd

PRODUCT NAME:

ECLPENDANTJR FC

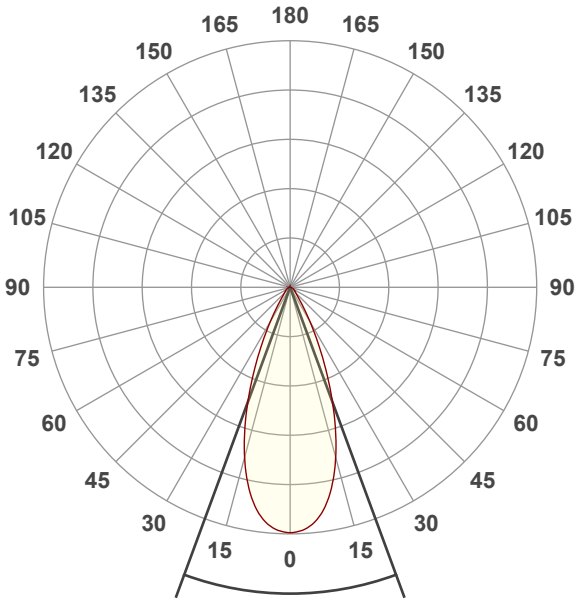
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Full On

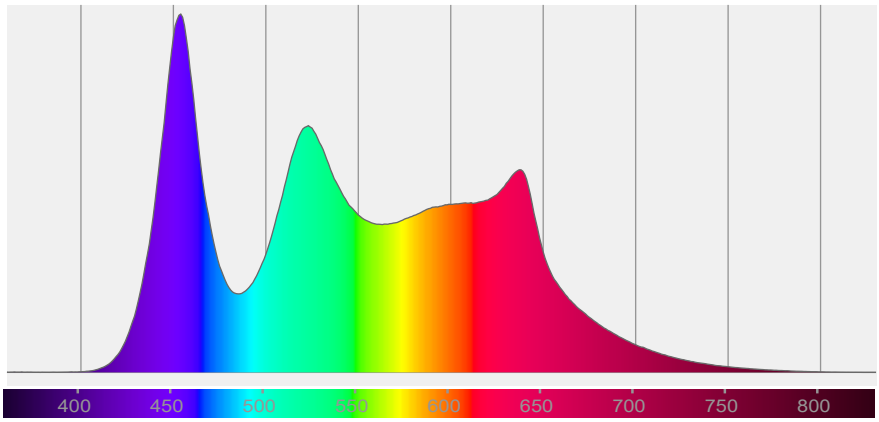
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:05:37



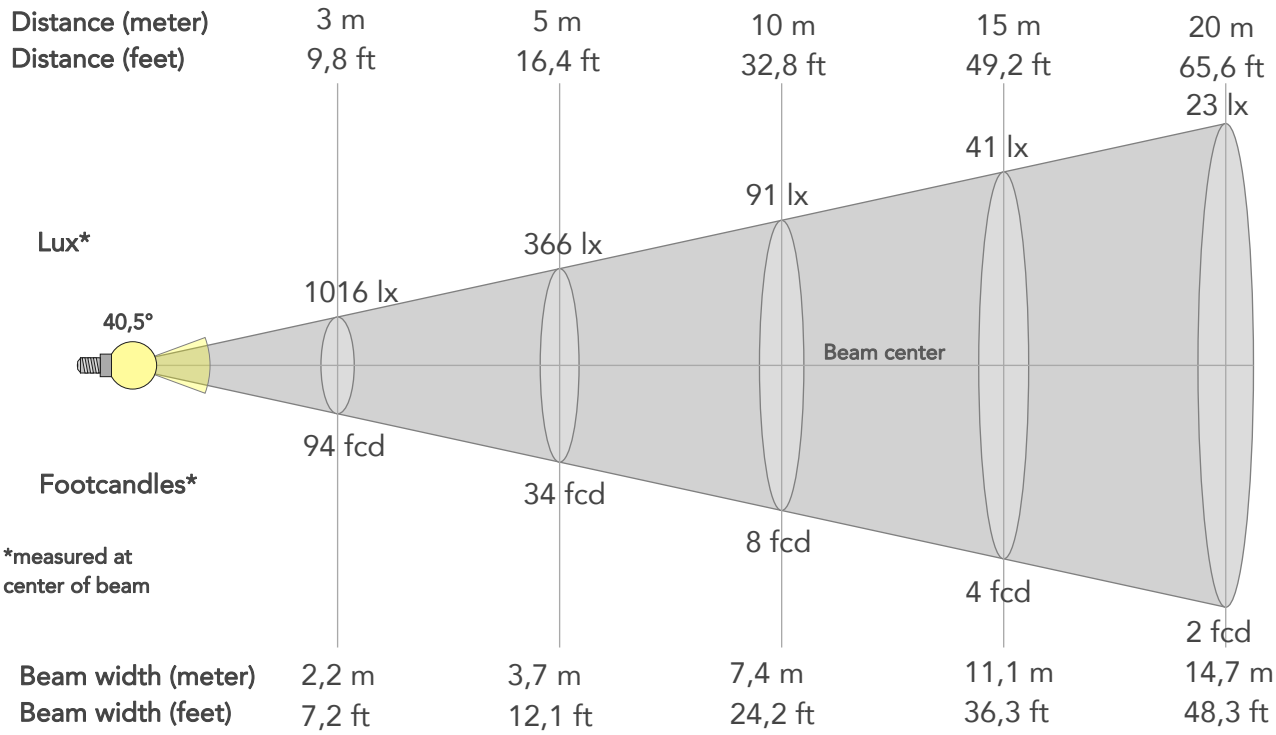
Beam angle 50%: 40,5°
Field angle 10%: 66,9°
Cut off angle 2.5%: 102,2°

Spectra



BEAM DETAILS

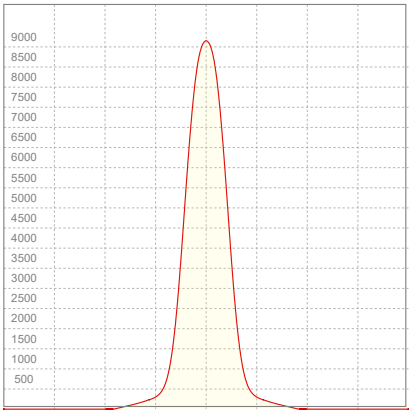
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,5°	66,9°	102,2°	96,7%	91,1%



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	9141lx	2285lx	1016lx	571lx	366lx	163lx	91lx	41lx	23lx	15lx	10lx	6lx	4lx
Footcand.	849fcd	212fcd	94fcd	53fcd	34fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,7m	5,5m	7,4m	11,1m	14,7m	18,4m	22,1m	29,5m	36,9m
Beam wid.	2,4ft	4,9ft	7,2ft	9,7ft	12,1ft	18,1ft	24,2ft	36,3ft	48,3ft	60,4ft	72,5ft	96,7ft	120,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,509A	106,1W	47lm/W

Power FC
0,92

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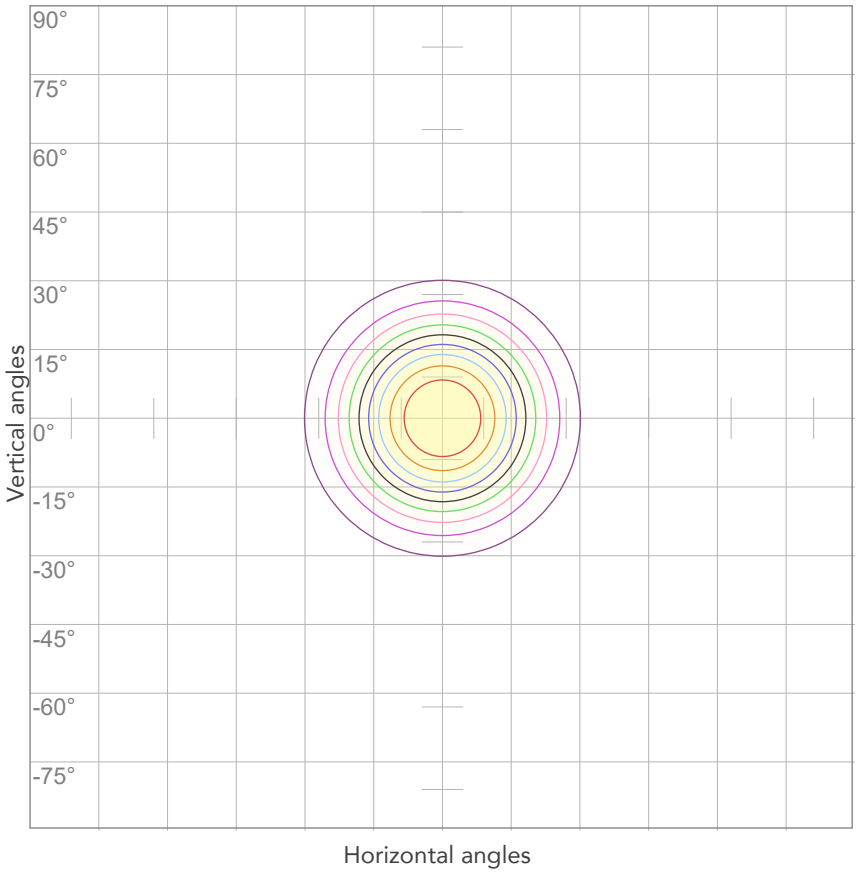
ISO DIAGRAMS

ISO CANDELA DIAGRAM



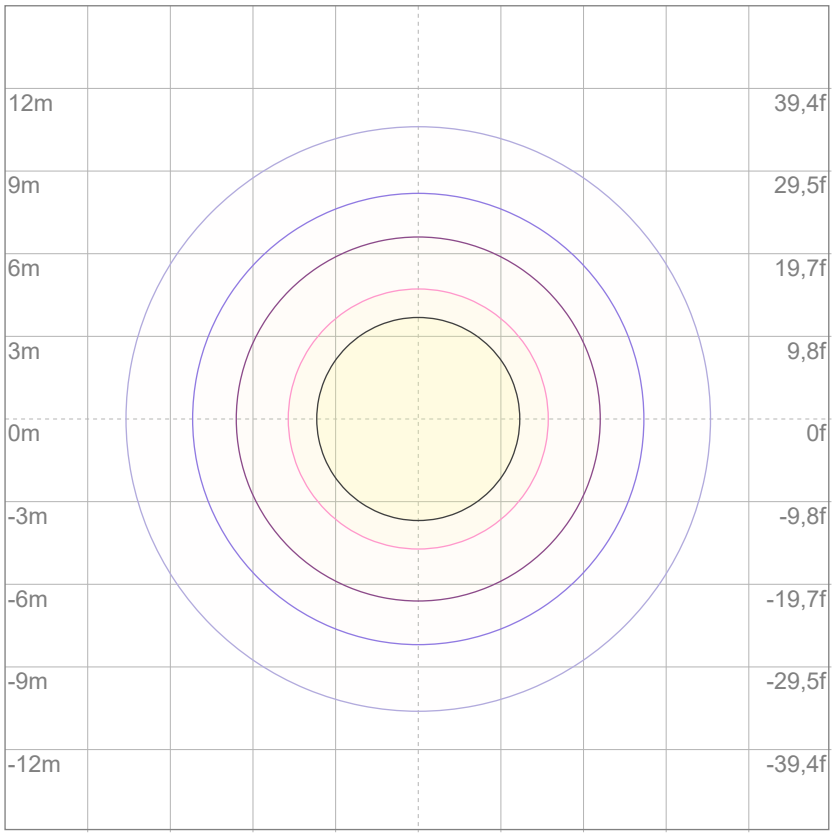
10%	914 cd
20%	1828 cd
30%	2742 cd
40%	3656 cd
50%	4570 cd
60%	5485 cd
70%	6399 cd
80%	7313 cd

Conditions:

Number of c-planes: 2

Candela at center: 9141 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,74 lx
5%	4,57 lx
10%	9,14 lx
30%	27,4 lx
50%	45,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 91,4 lx

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

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Total lumen output:

5035 lm

Peak candela output:

5897 cd

PRODUCT NAME:

ECLPENDANTJR FC

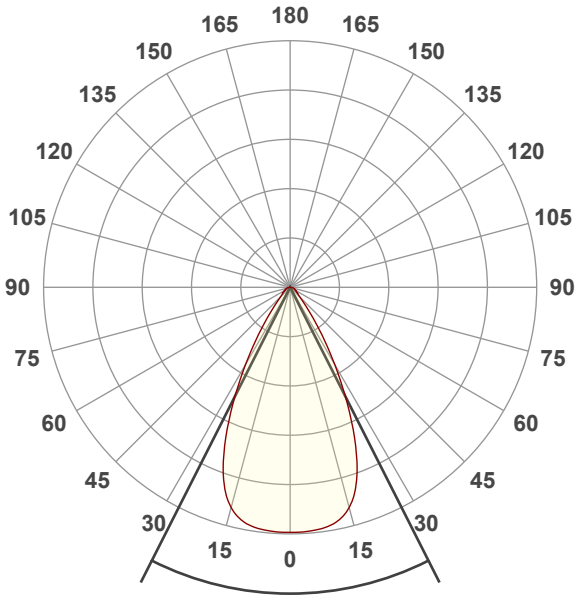
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Full On

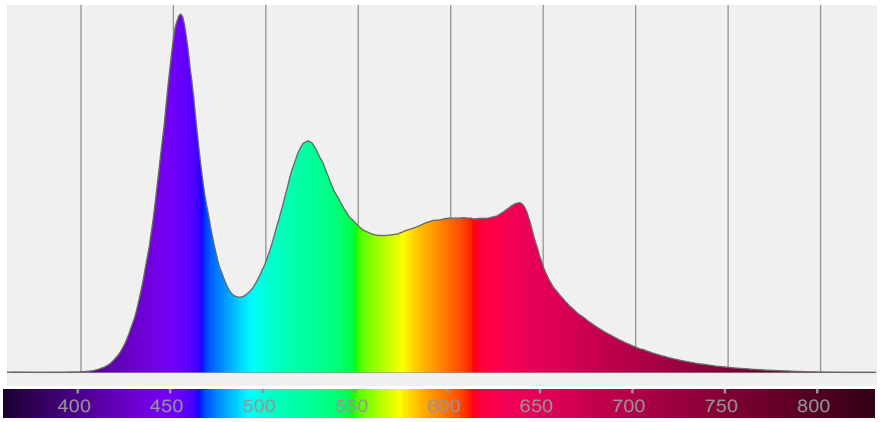
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:33:29



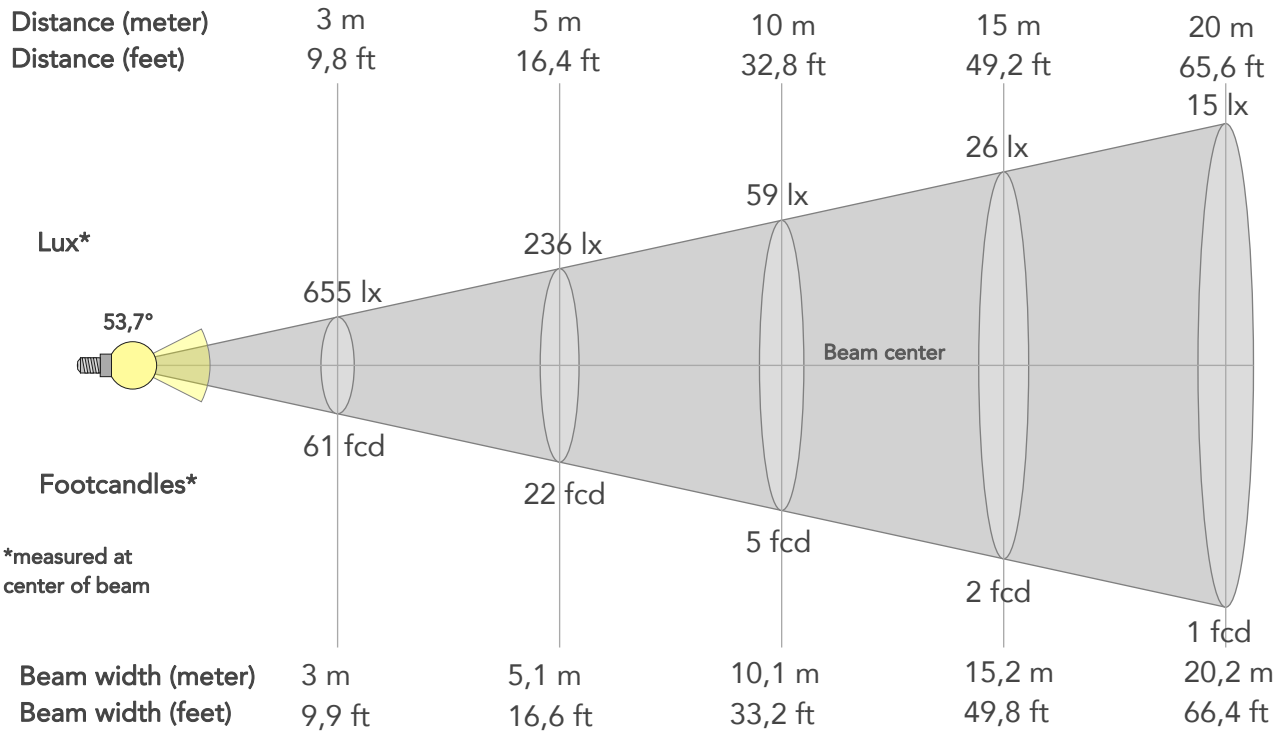
Beam angle 50%: 53,7°
Field angle 10%: 80,3°
Cut off angle 2.5%: 121°

Spectra



BEAM DETAILS

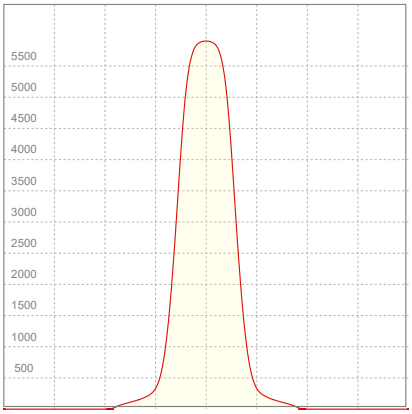
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,7°	80,3°	121°	95,9%	90,3%



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	5897lx	1474lx	655lx	369lx	236lx	105lx	59lx	26lx	15lx	9lx	7lx	4lx	2lx
Footcand.	548fcd	137fcd	61fcd	34fcd	22fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,4m	40,5m	50,6m
Beam wid.	3,3ft	6,7ft	9,9ft	13,3ft	16,6ft	24,9ft	33,2ft	49,8ft	66,4ft	83ft	99,6ft	132,8ft	166ft

LINEAR DISTRIBUTION DIAGRAM



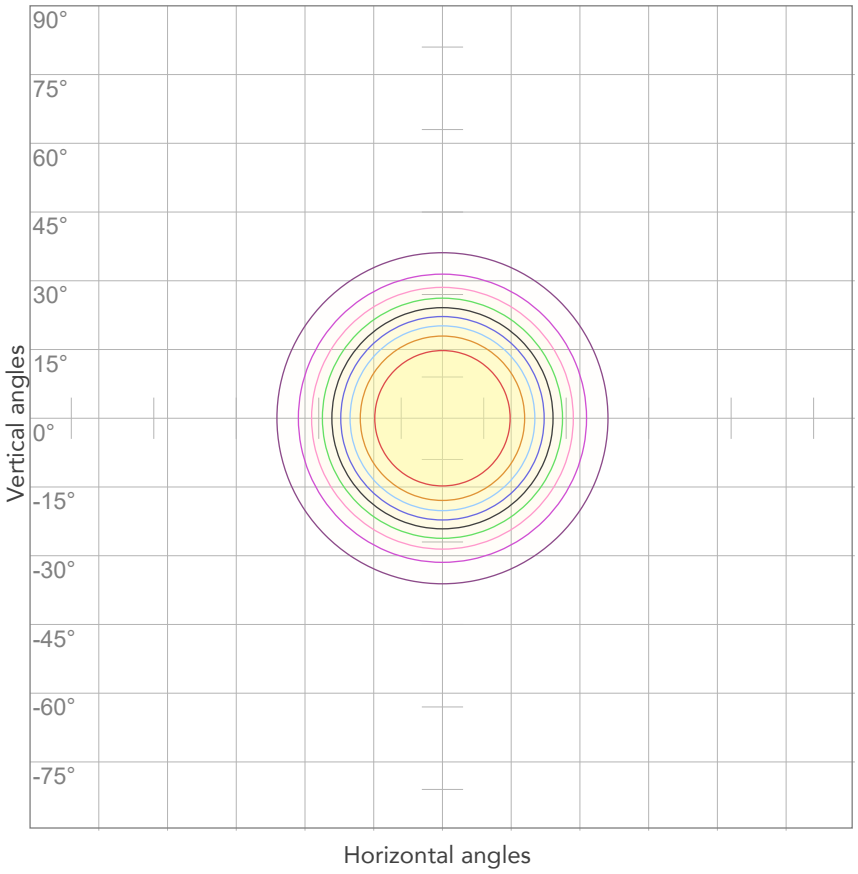
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,515A	106,8W	47lm/W

Power FC
0,92

ISO DIAGRAMS

ISO CANDELA DIAGRAM



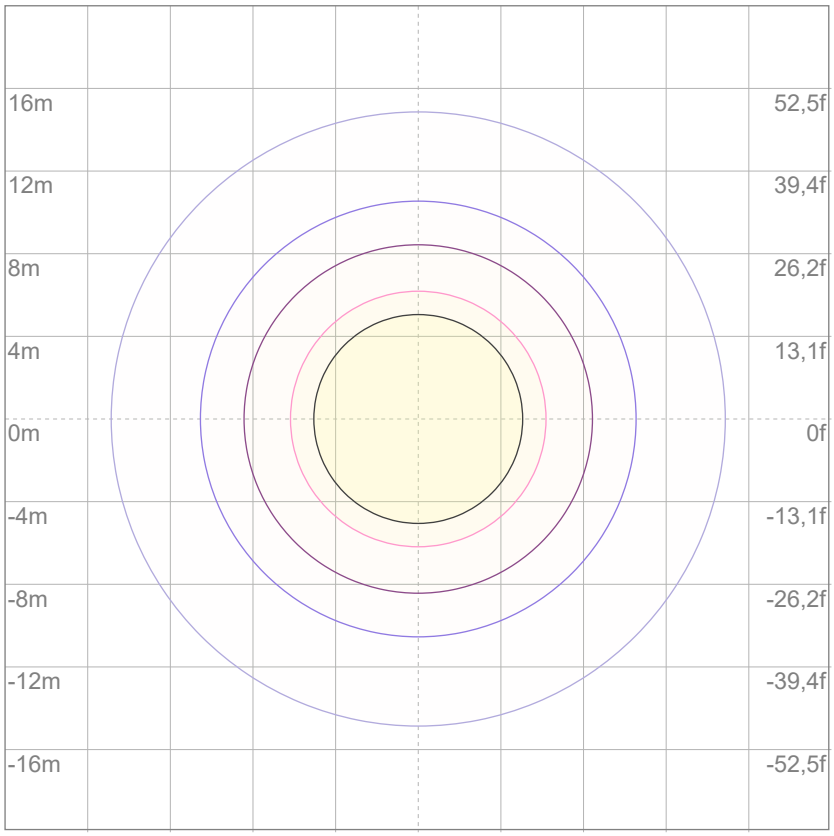
10%	590 cd
20%	1179 cd
30%	1769 cd
40%	2359 cd
50%	2949 cd
60%	3538 cd
70%	4128 cd
80%	4718 cd

Conditions:

Number of c-planes: 2

Candela at center: 5897 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,77 lx
5%	2,95 lx
10%	5,90 lx
30%	17,7 lx
50%	29,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 59,0 lx

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

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Total lumen output:

1005 lm

Peak candela output:

4550 cd

PRODUCT NAME:

ECLPENDANTJR FC

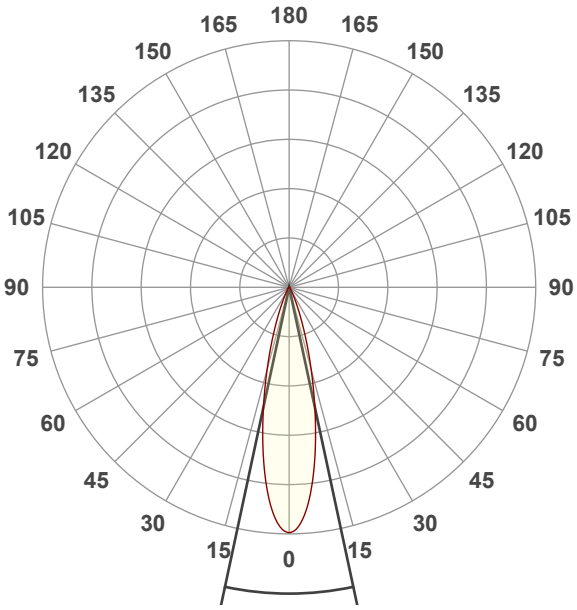
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Red

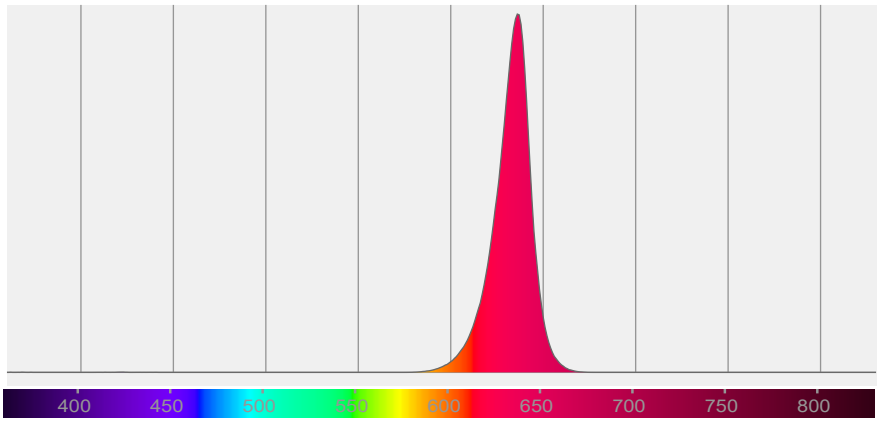
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:33:37



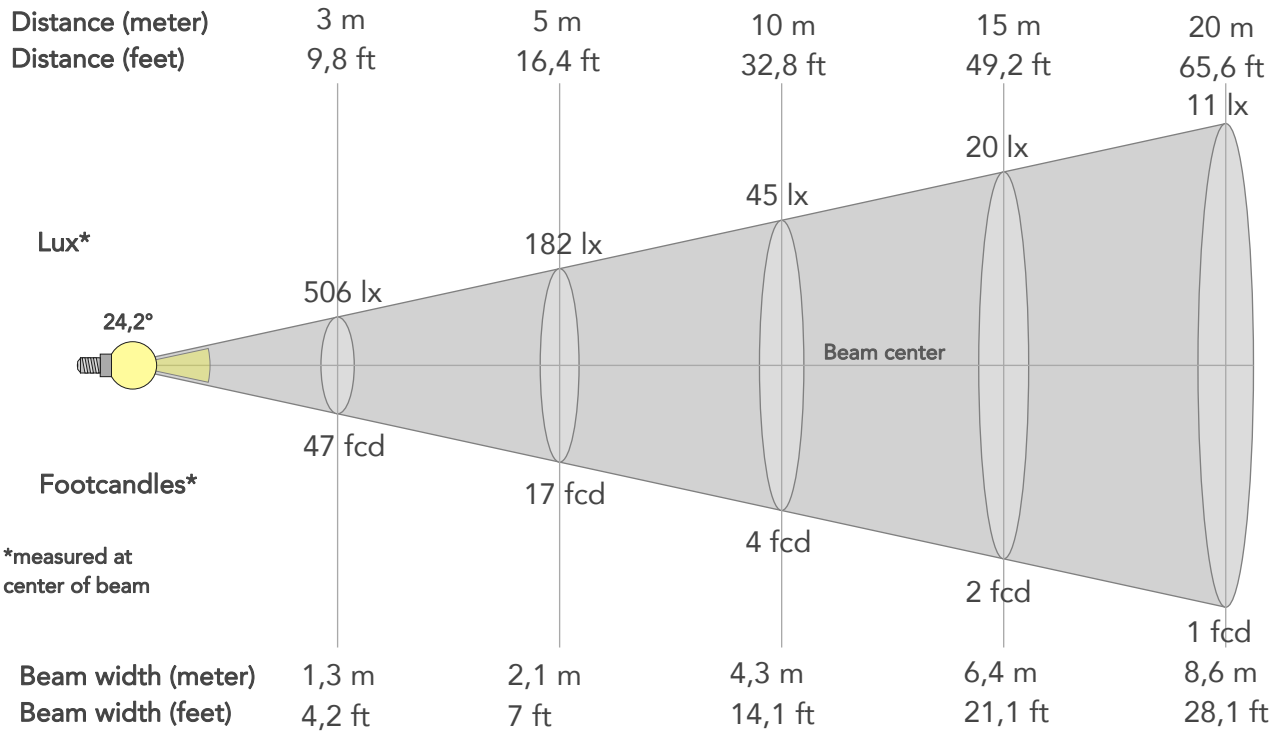
Beam angle 50%: 24,2°
Field angle 10%: 44,6°
Cut off angle 2.5%: 59,4°

Spectra



BEAM DETAILS

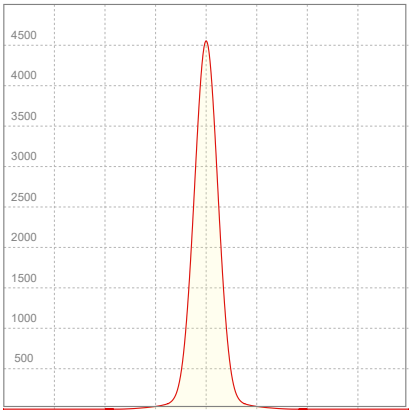
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24,2°	44,6°	59,4°	99,2%	96,5%



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	4550lx	1137lx	506lx	284lx	182lx	81lx	45lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	423fcd	106fcd	47fcd	26fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,7m	2,1m	3,2m	4,3m	6,4m	8,6m	10,7m	12,9m	17,1m	21,4m
Beam wid.	1,4ft	2,8ft	4,2ft	5,6ft	7ft	10,5ft	14,1ft	21,1ft	28,1ft	35,1ft	42,2ft	56,2ft	70,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,164A	27,5W	37lm/W

Power FC
0,74

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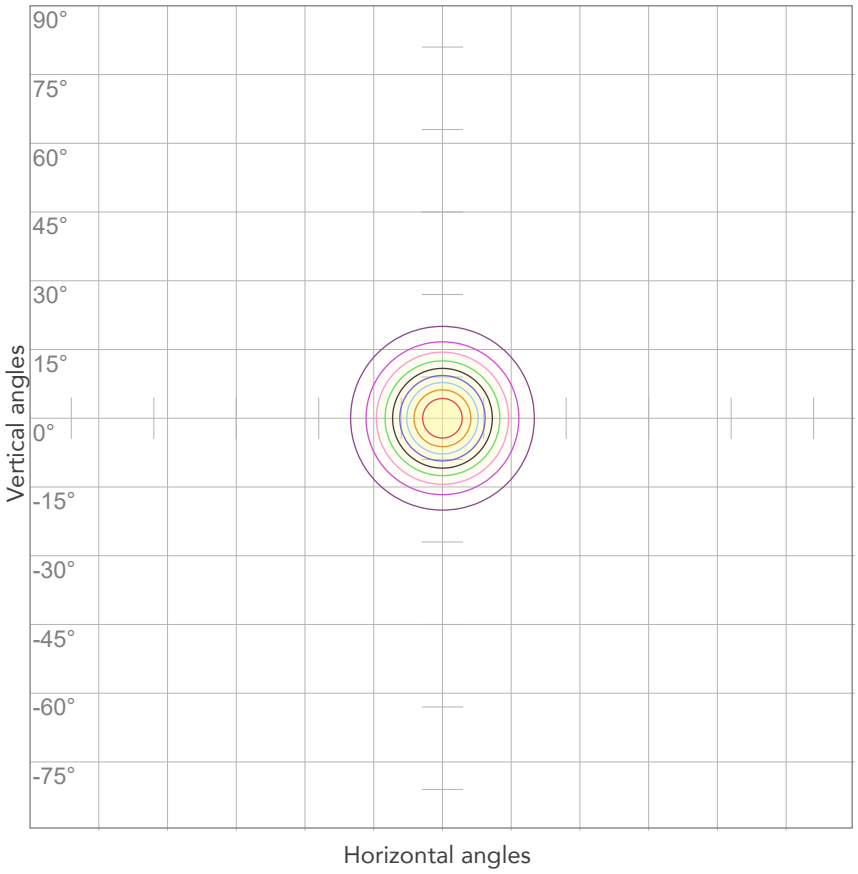
ISO DIAGRAMS

ISO CANDELA DIAGRAM



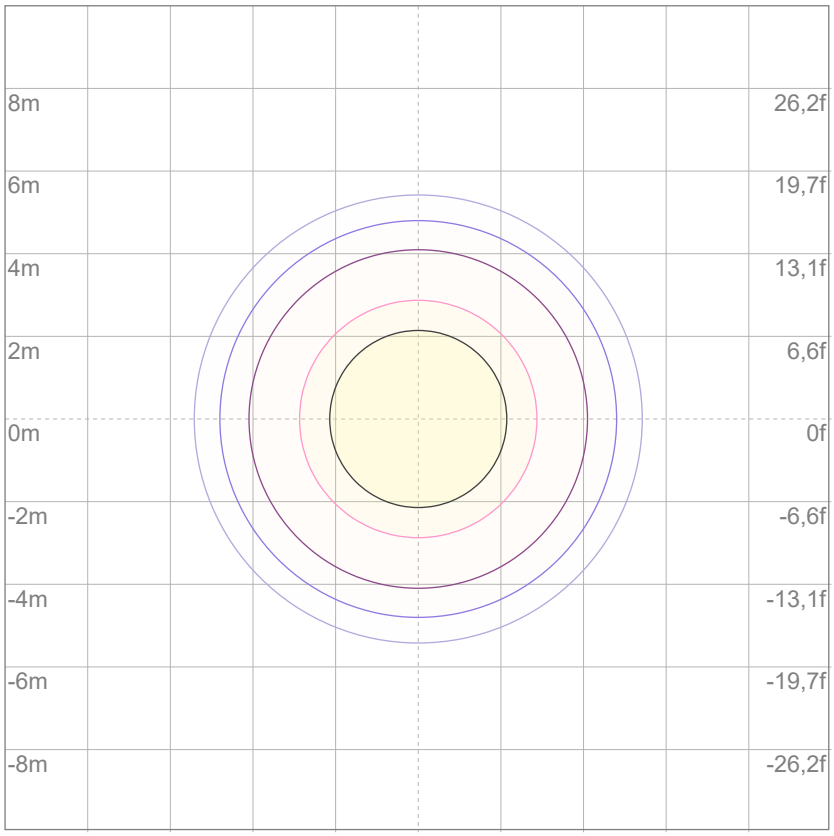
10%	455 cd
20%	910 cd
30%	1365 cd
40%	1820 cd
50%	2275 cd
60%	2730 cd
70%	3185 cd
80%	3640 cd

Conditions:

Number of c-planes: 2

Candela at center: 4550 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,36 lx
5%	2,27 lx
10%	4,55 lx
30%	13,6 lx
50%	22,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 45,5 lx

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

Total lumen output:

1025 lm

Peak candela output:

2065 cd

PRODUCT NAME:

ECLPENDANTJR FC

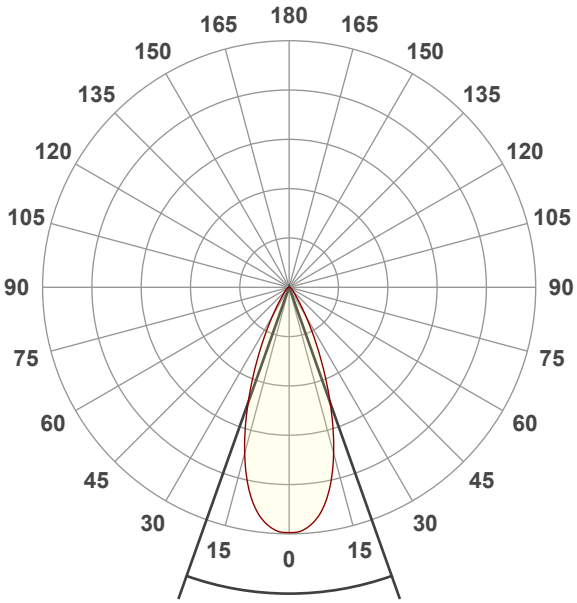
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Red

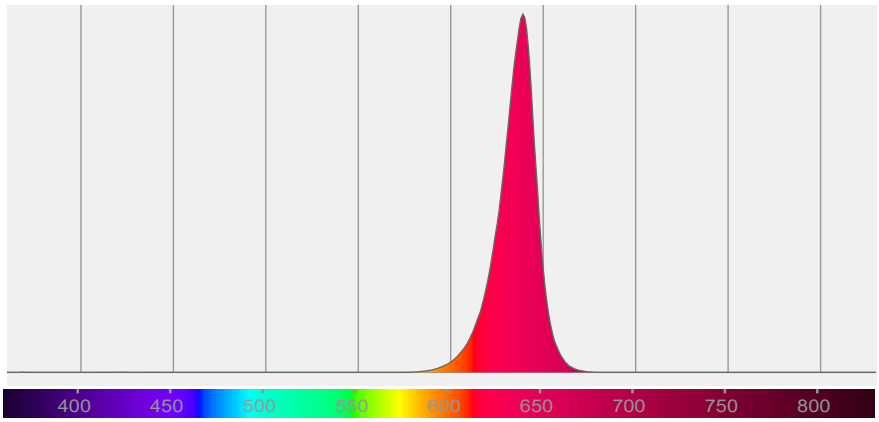
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:17:22



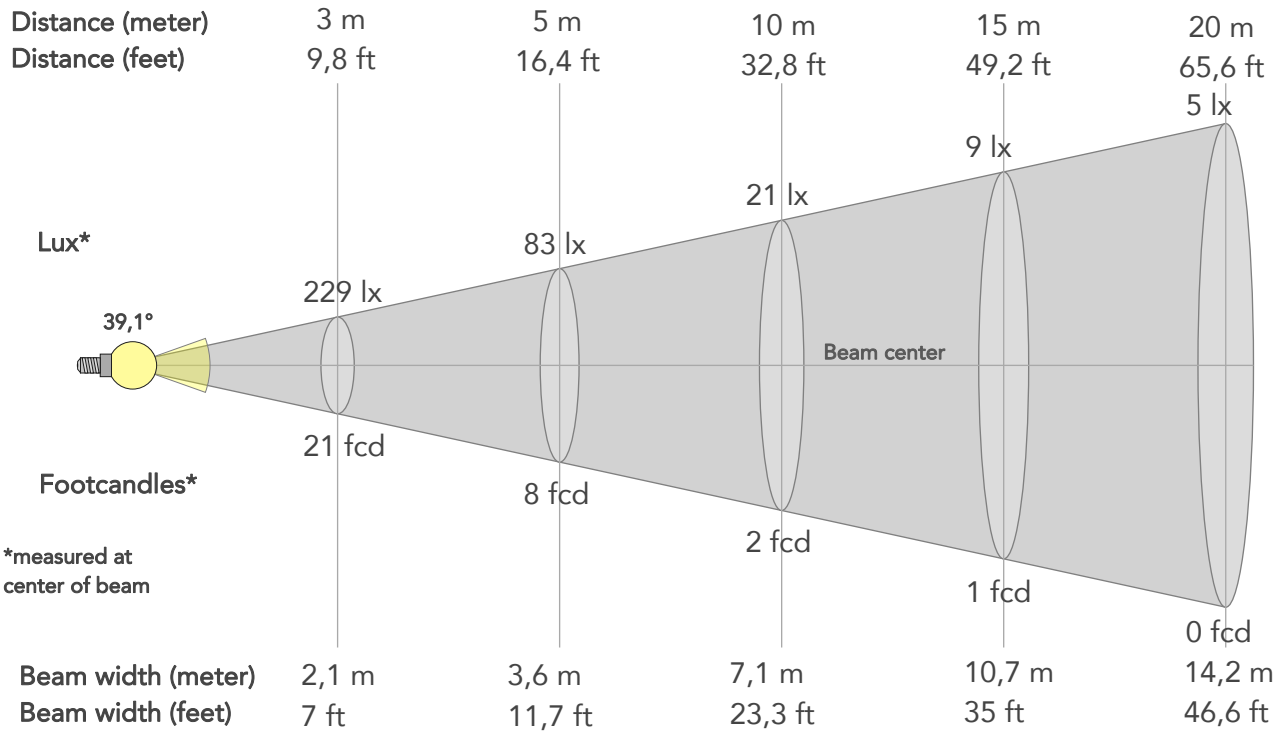
Beam angle 50%: 39,1°
Field angle 10%: 64,4°
Cut off angle 2.5%: 89,9°

Spectra



BEAM DETAILS

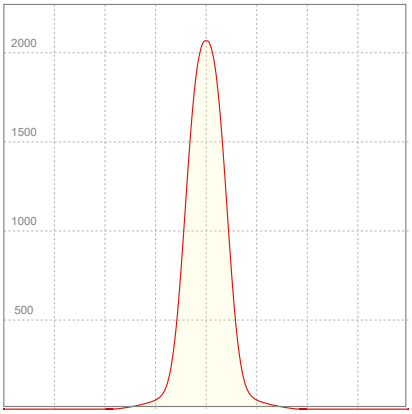
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,1°	64,4°	89,9°	97,9%	93,6%



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	2065lx	516lx	229lx	129lx	83lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	192fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,6m	5,3m	7,1m	10,7m	14,2m	17,8m	21,3m	28,4m	35,5m
Beam wid.	2,3ft	4,7ft	7ft	9,3ft	11,7ft	17,5ft	23,3ft	35ft	46,6ft	58,3ft	69,9ft	93,2ft	116,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,174A	29,9W	34lm/W

Power FC
0,76

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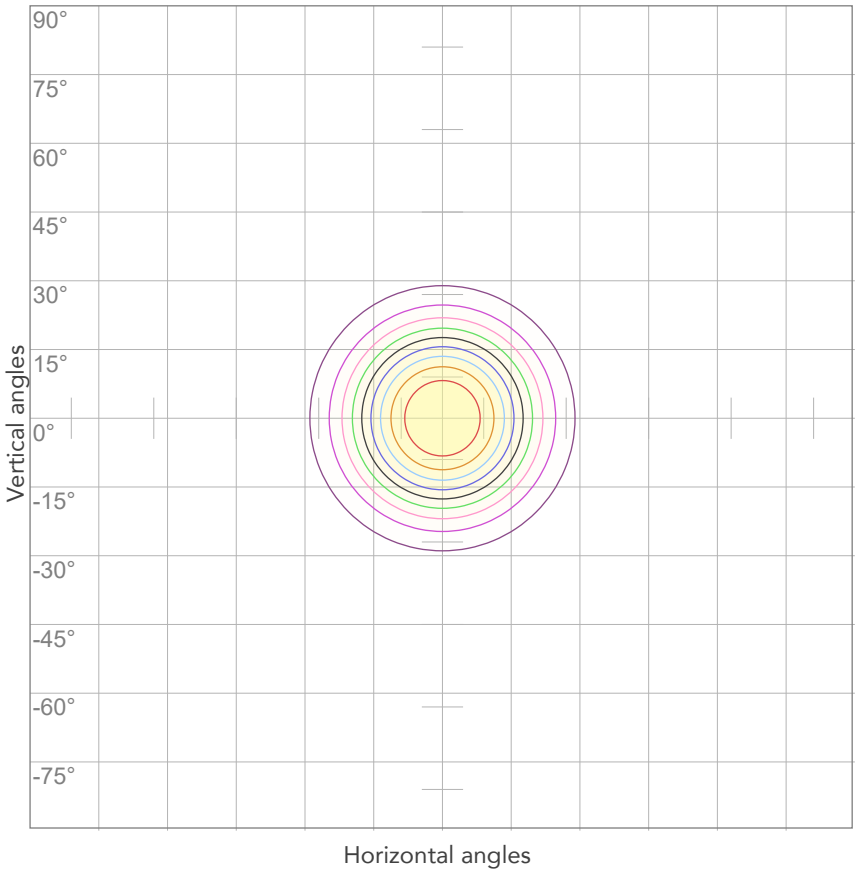
ISO DIAGRAMS

ISO CANDELA DIAGRAM



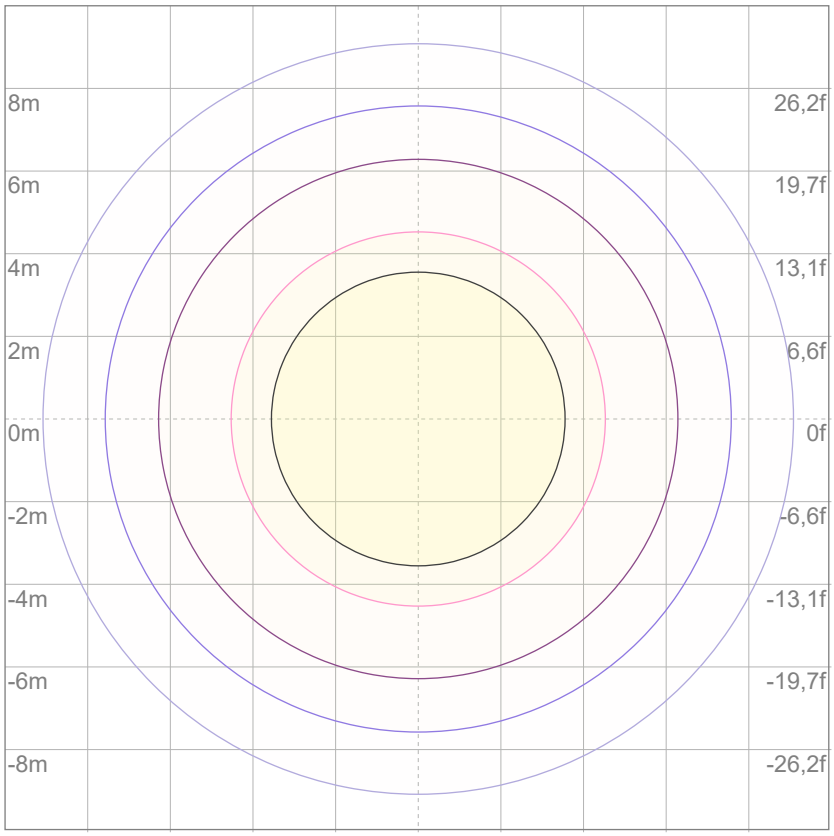
10%	206 cd
20%	413 cd
30%	619 cd
40%	826 cd
50%	1032 cd
60%	1239 cd
70%	1445 cd
80%	1652 cd

Conditions:

Number of c-planes: 2

Candela at center: 2065 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,619 lx
5%	1,03 lx
10%	2,06 lx
30%	6,19 lx
50%	10,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 20,6 lx

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

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Total lumen output:

991 lm

Peak candela output:

1444 cd

PRODUCT NAME:

ECLPENDANTJR FC

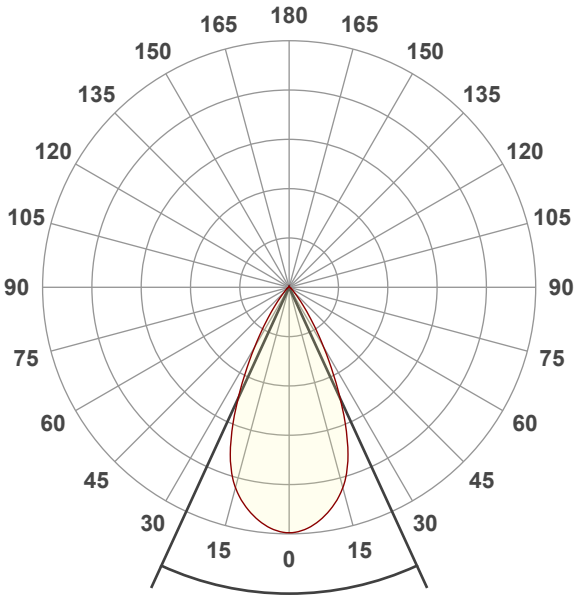
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Red

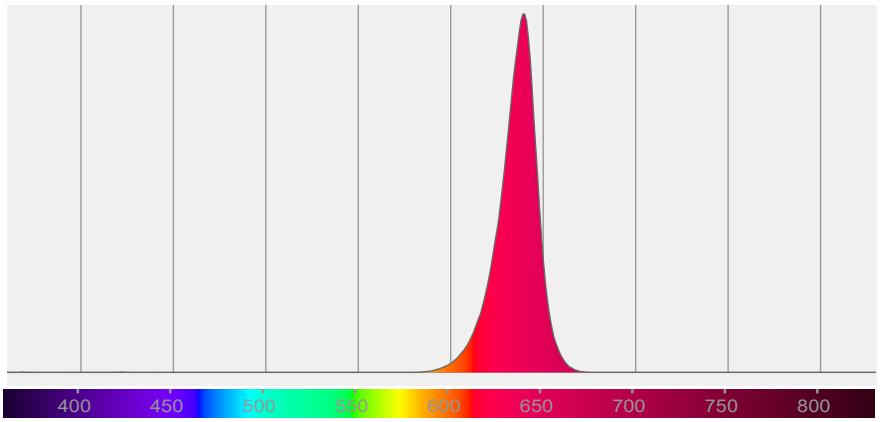
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:41:49



Beam angle 50%: 49,3°
Field angle 10%: 74,5°
Cut off angle 2.5%: 94,1°

Spectra



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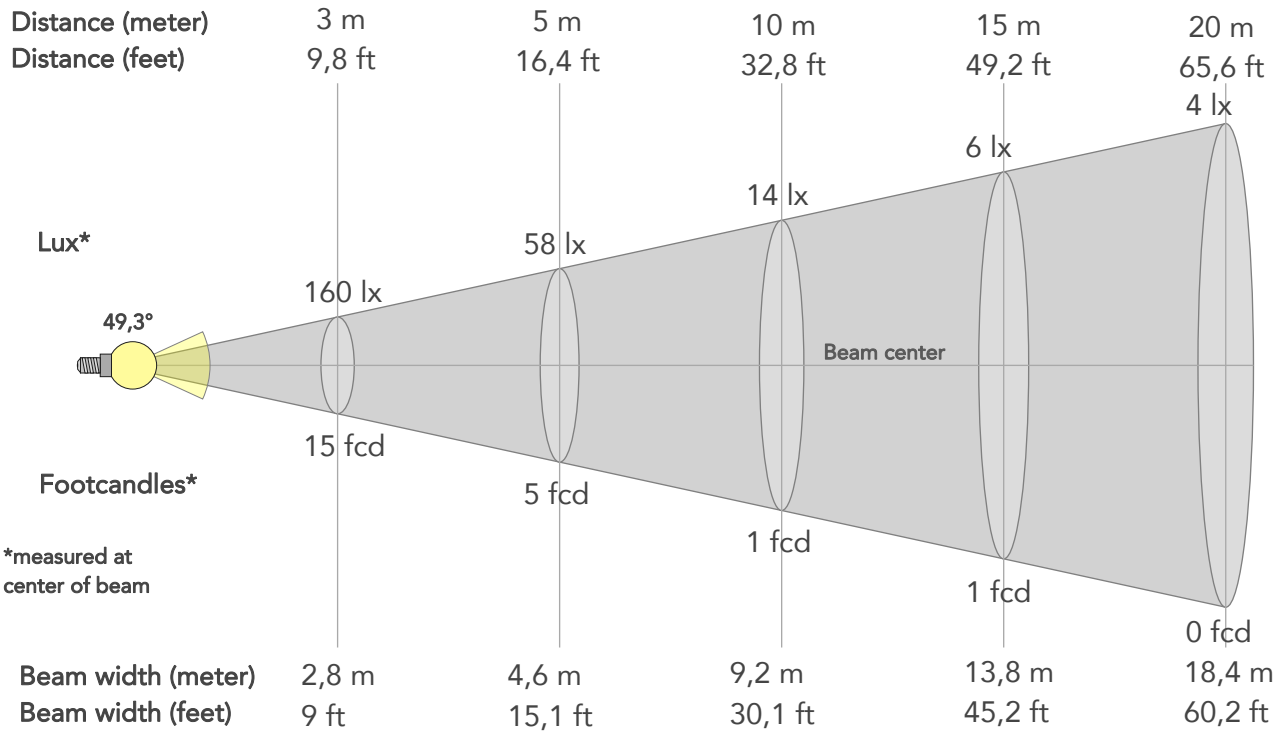
BEAM DETAILS

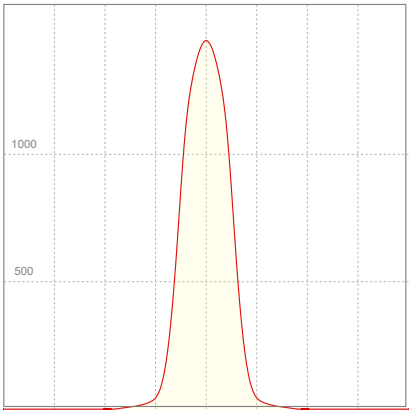
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,3°	74,5°	94,1°	98,5%	95,3%



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	1444lx	361lx	160lx	90lx	58lx	26lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	134fcd	34fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,8m	3,7m	4,6m	6,9m	9,2m	13,8m	18,4m	22,9m	27,5m	36,7m	45,9m
Beam wid.	3ft	6,1ft	9ft	12ft	15,1ft	22,6ft	30,1ft	45,2ft	60,2ft	75,3ft	90,3ft	120,4ft	150,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,174A	29,8W	33lm/W

Power FC
0,76

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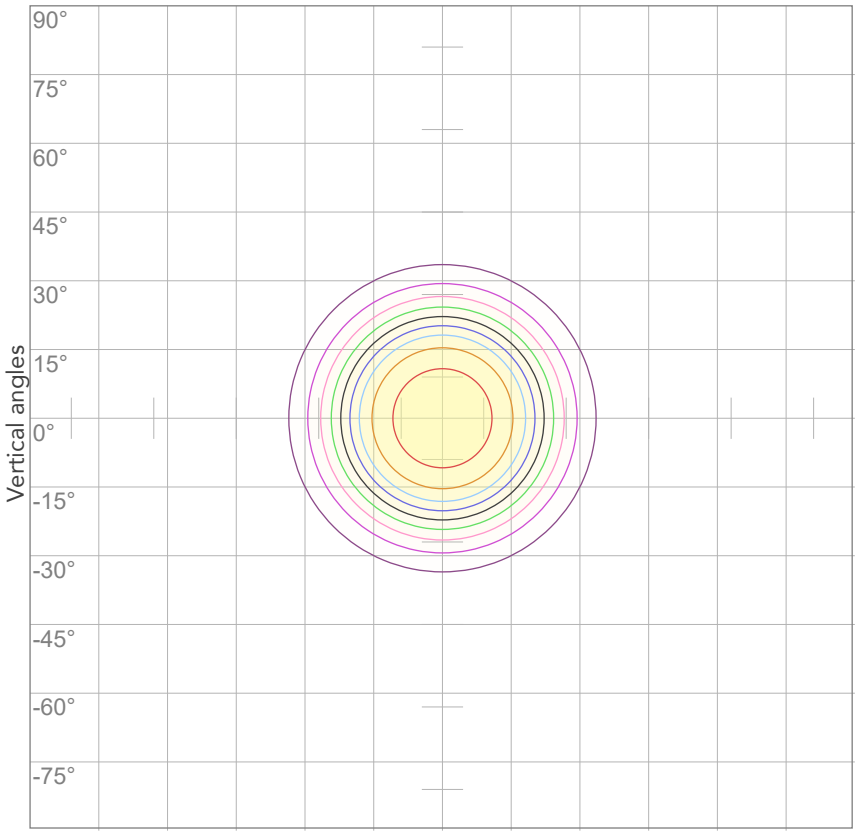
ISO DIAGRAMS

ISO CANDELA DIAGRAM



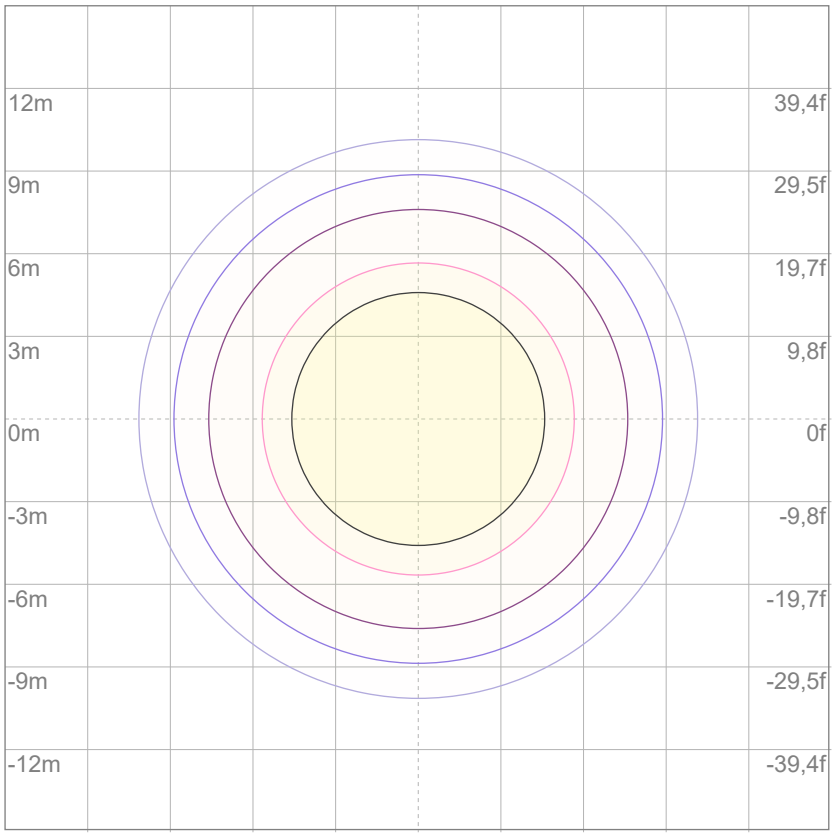
10%	144 cd
20%	289 cd
30%	433 cd
40%	577 cd
50%	722 cd
60%	866 cd
70%	1011 cd
80%	1155 cd

Conditions:

Number of c-planes: 2

Candela at center: 1444 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,433 lx
5%	0,722 lx
10%	1,44 lx
30%	4,33 lx
50%	7,22 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,4 lx

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

Total lumen output:

1726 lm

Peak candela output:

6481 cd

PRODUCT NAME:

ECLPENDANTJR FC

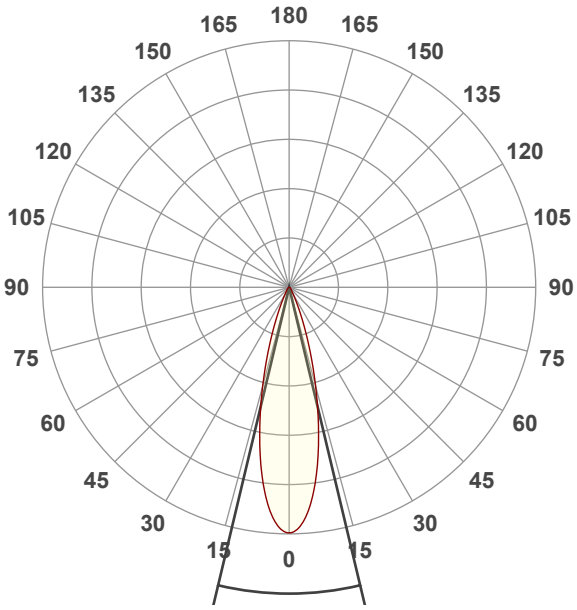
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Green

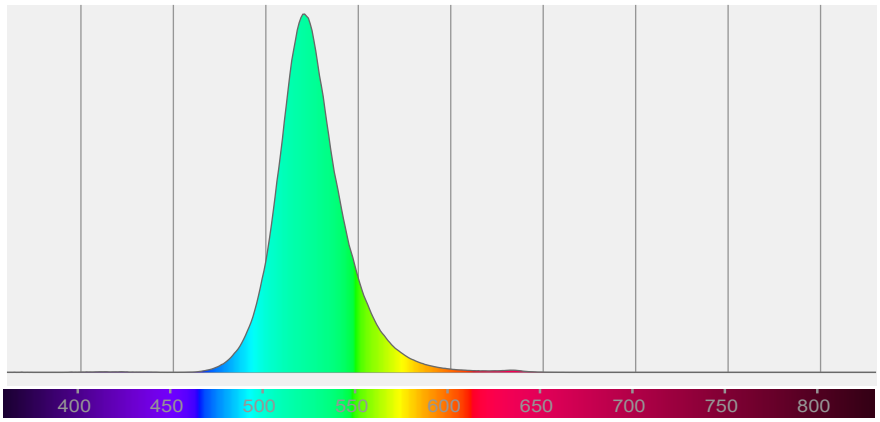
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:35:32



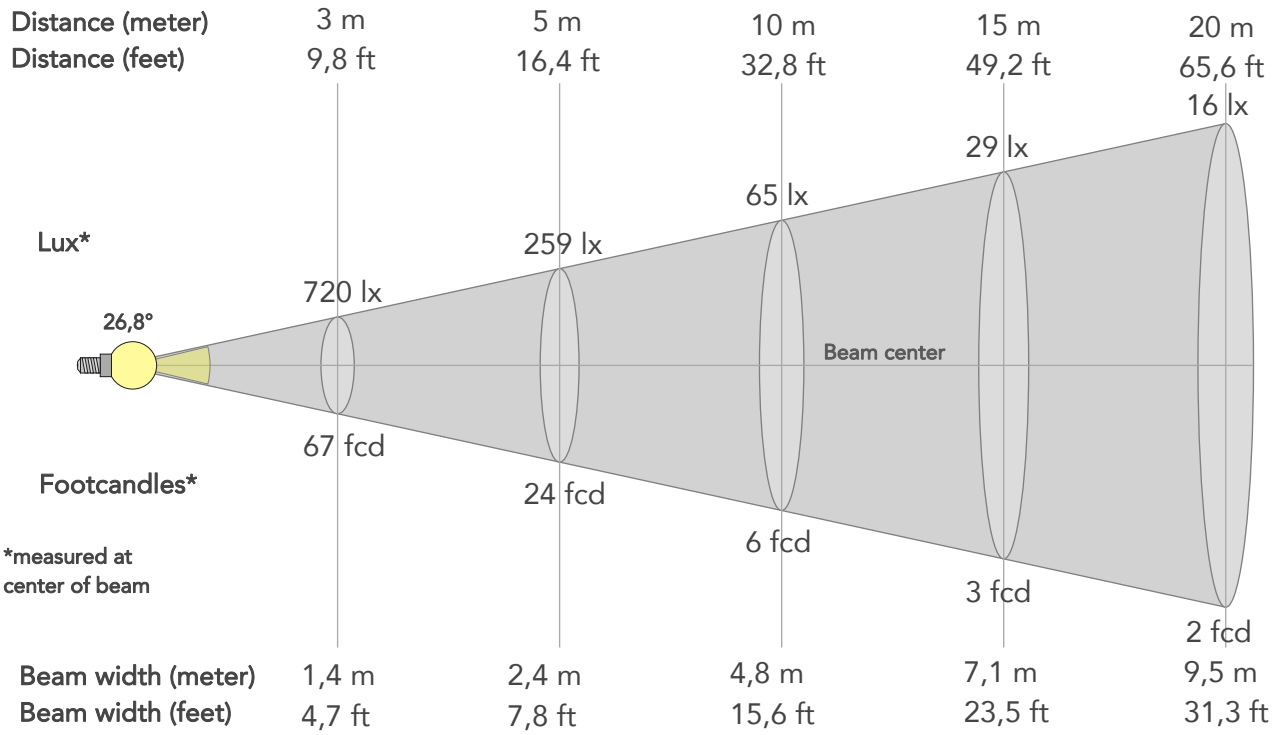
Beam angle 50%: 26,8°
Field angle 10%: 48,1°
Cut off angle 2.5%: 64,9°

Spectra



BEAM DETAILS

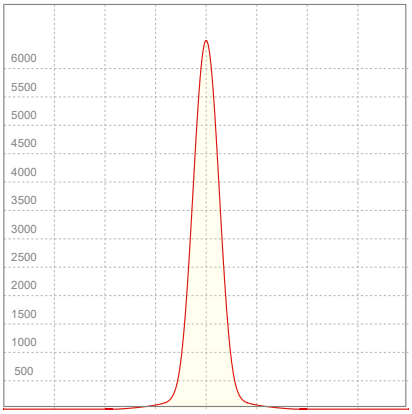
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,8°	48,1°	64,9°	98,5%	94,8%



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	6481lx	1620lx	720lx	405lx	259lx	115lx	65lx	29lx	16lx	10lx	7lx	4lx	3lx
Footcand.	602fcd	151fcd	67fcd	38fcd	24fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	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	19,1m	23,8m
Beam wid.	1,6ft	3,1ft	4,7ft	6,2ft	7,8ft	11,7ft	15,6ft	23,5ft	31,3ft	39,1ft	46,9ft	62,5ft	78,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,198A	36,0W	48lm/W

Power FC
0,8

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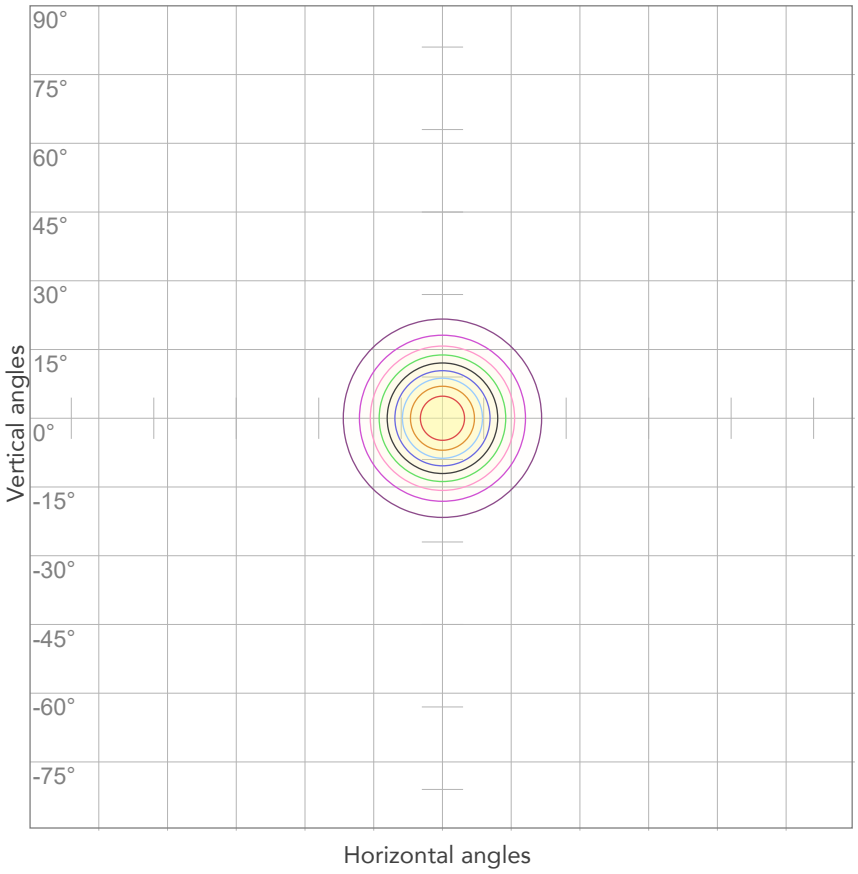
ISO DIAGRAMS

ISO CANDELA DIAGRAM



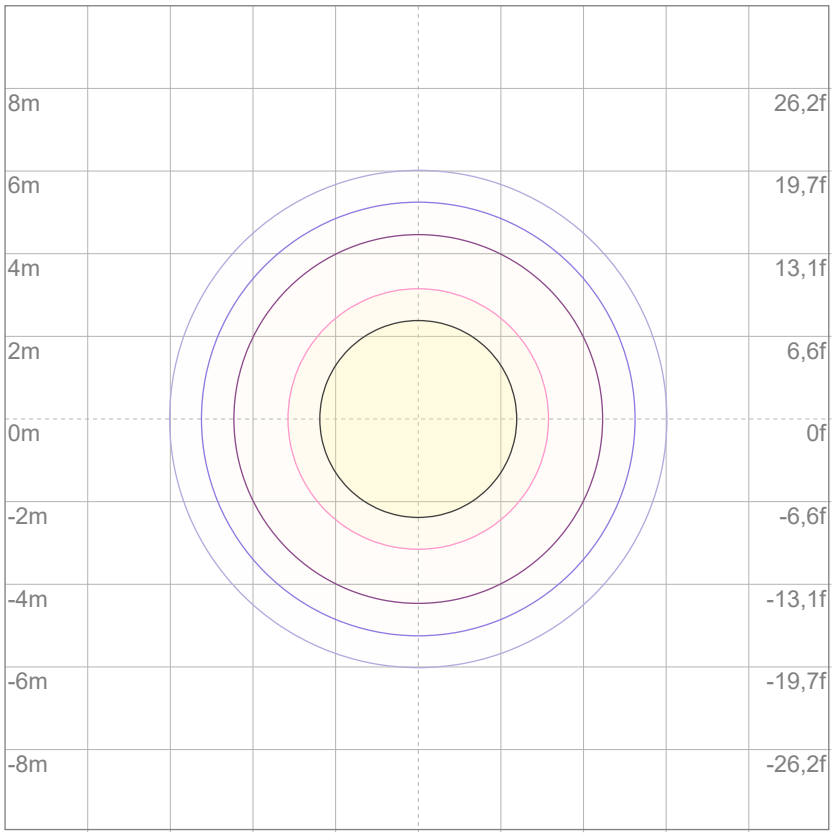
10%	648 cd
20%	1296 cd
30%	1944 cd
40%	2592 cd
50%	3241 cd
60%	3889 cd
70%	4537 cd
80%	5185 cd

Conditions:

Number of c-planes: 2

Candela at center: 6481 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,94 lx
5%	3,24 lx
10%	6,48 lx
30%	19,4 lx
50%	32,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 64,8 lx

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

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Total lumen output:

1646 lm

Peak candela output:

2993 cd

PRODUCT NAME:

ECLPENDANTJR FC

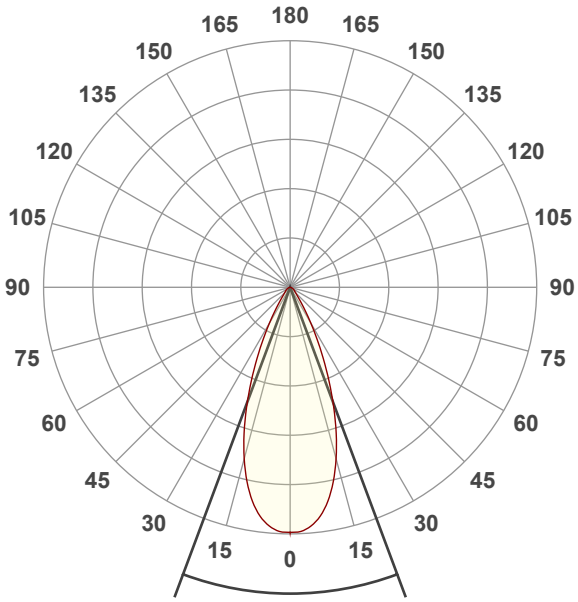
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Green

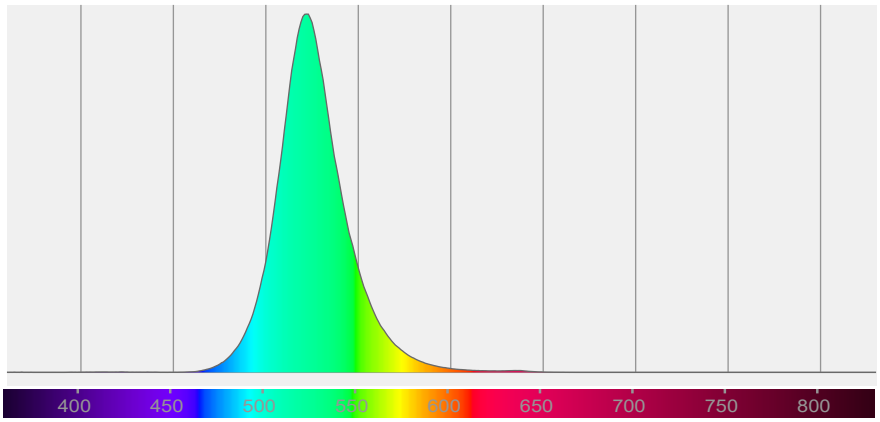
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:12:22



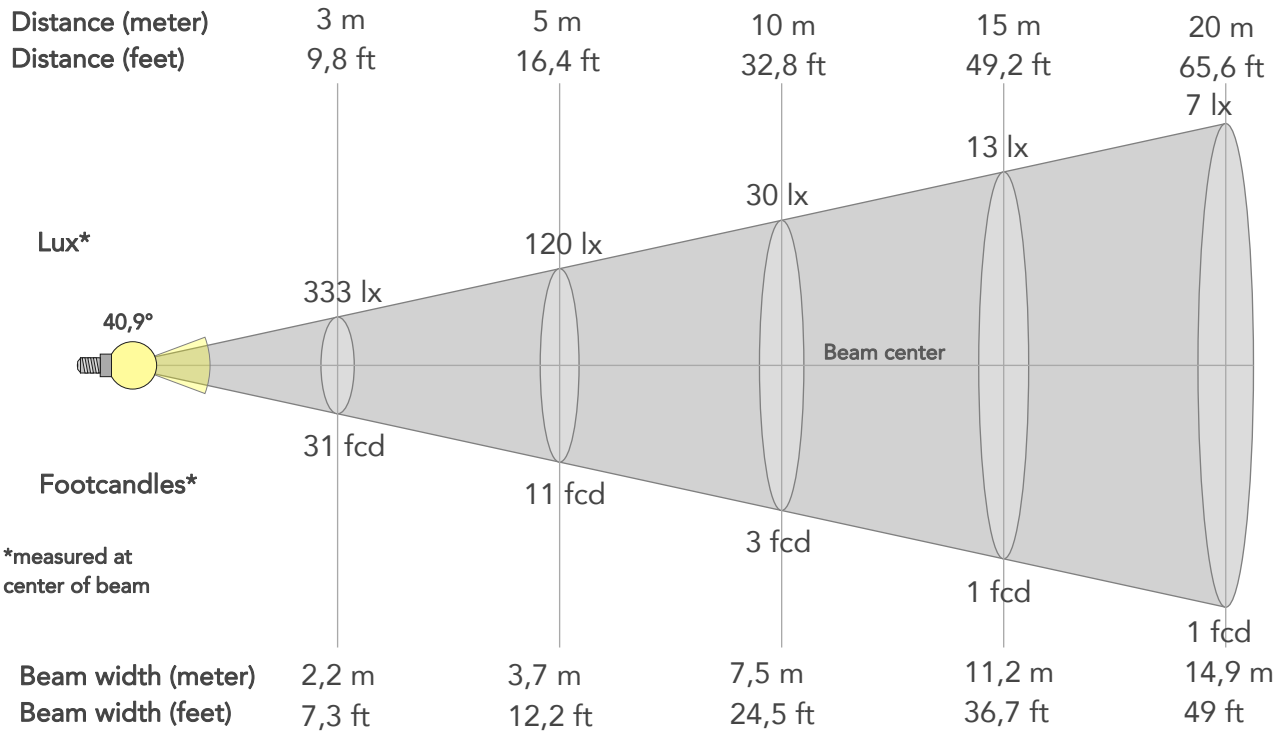
Beam angle 50%: 40,9°
Field angle 10%: 67,7°
Cut off angle 2.5%: 99,2°

Spectra



BEAM DETAILS

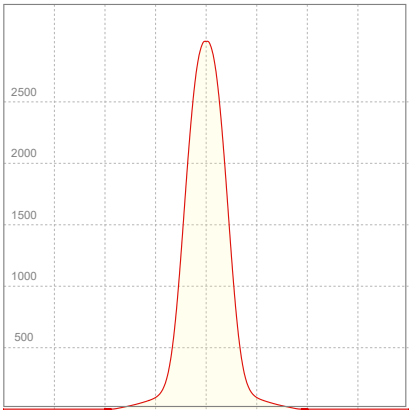
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,9°	67,7°	99,2°	97,1%	91,9%



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	2993lx	748lx	333lx	187lx	120lx	53lx	30lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	278fcd	70fcd	31fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	3m	3,7m	5,6m	7,5m	11,2m	14,9m	18,7m	22,4m	29,8m	37,3m
Beam wid.	2,5ft	4,9ft	7,3ft	9,8ft	12,2ft	18,4ft	24,5ft	36,7ft	49ft	61,2ft	73,4ft	97,9ft	122,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,192A	34,6W	48lm/W

Power FC
0,8

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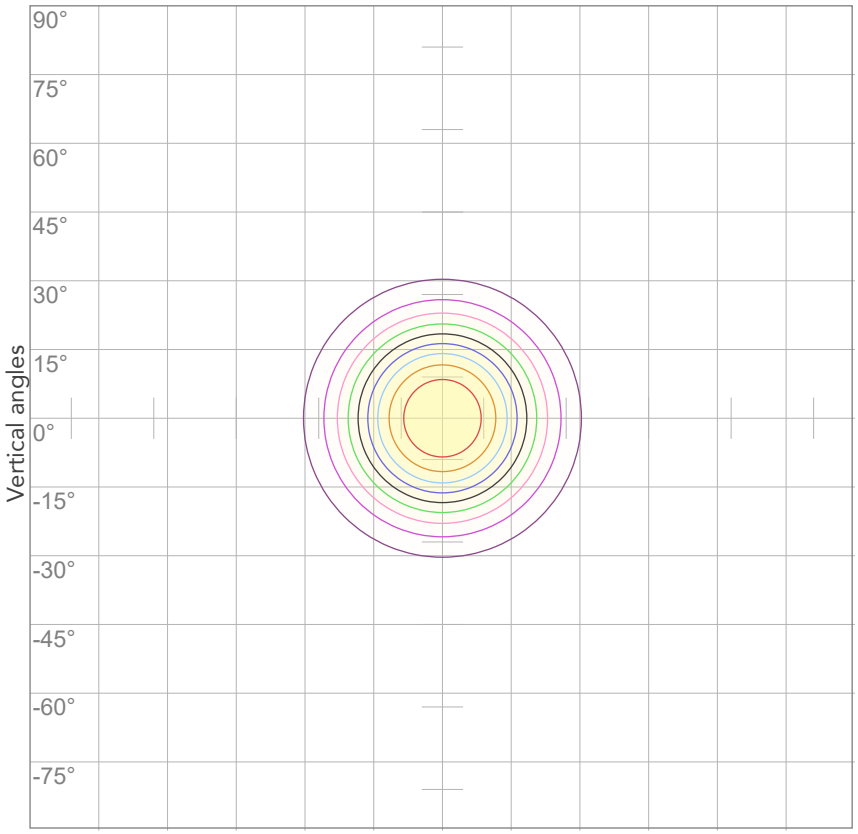
ISO DIAGRAMS

ISO CANDELA DIAGRAM



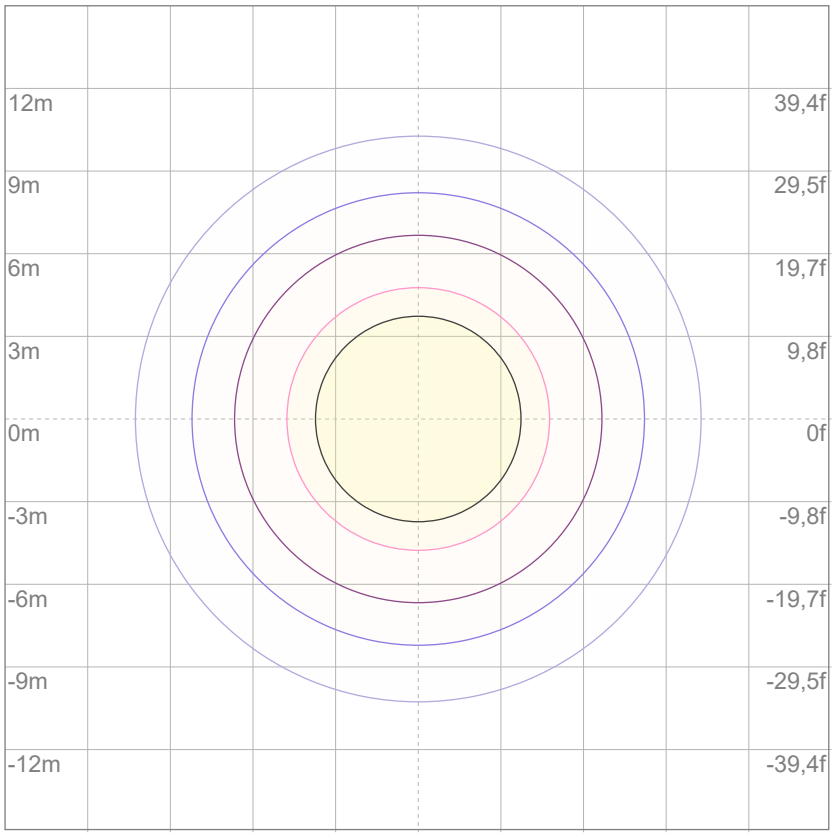
10%	299 cd
20%	599 cd
30%	898 cd
40%	1197 cd
50%	1497 cd
60%	1796 cd
70%	2095 cd
80%	2395 cd

Conditions:

Number of c-planes: 2

Candela at center: 2993 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,898 lx
5%	1,50 lx
10%	2,99 lx
30%	8,98 lx
50%	15,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 29,9 lx

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

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Total lumen output:

1669 lm

Peak candela output:

1936 cd

PRODUCT NAME:

ECLPENDANTJR FC

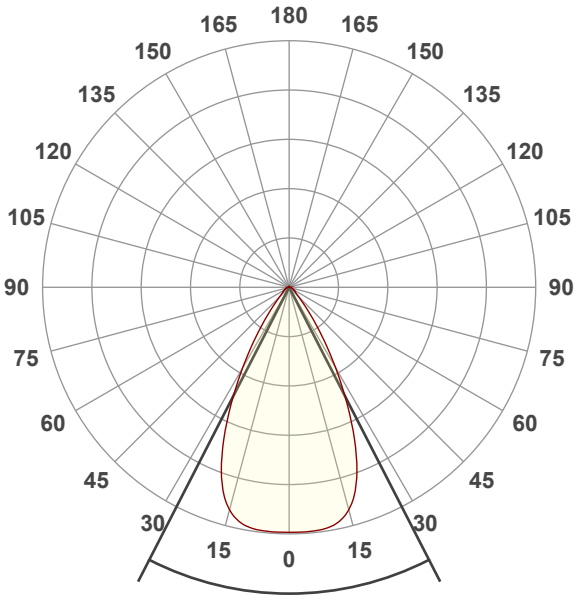
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Green

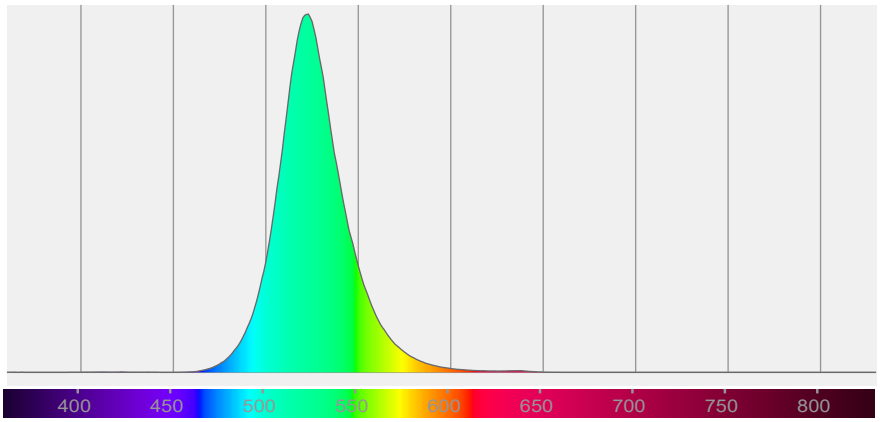
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:37:54



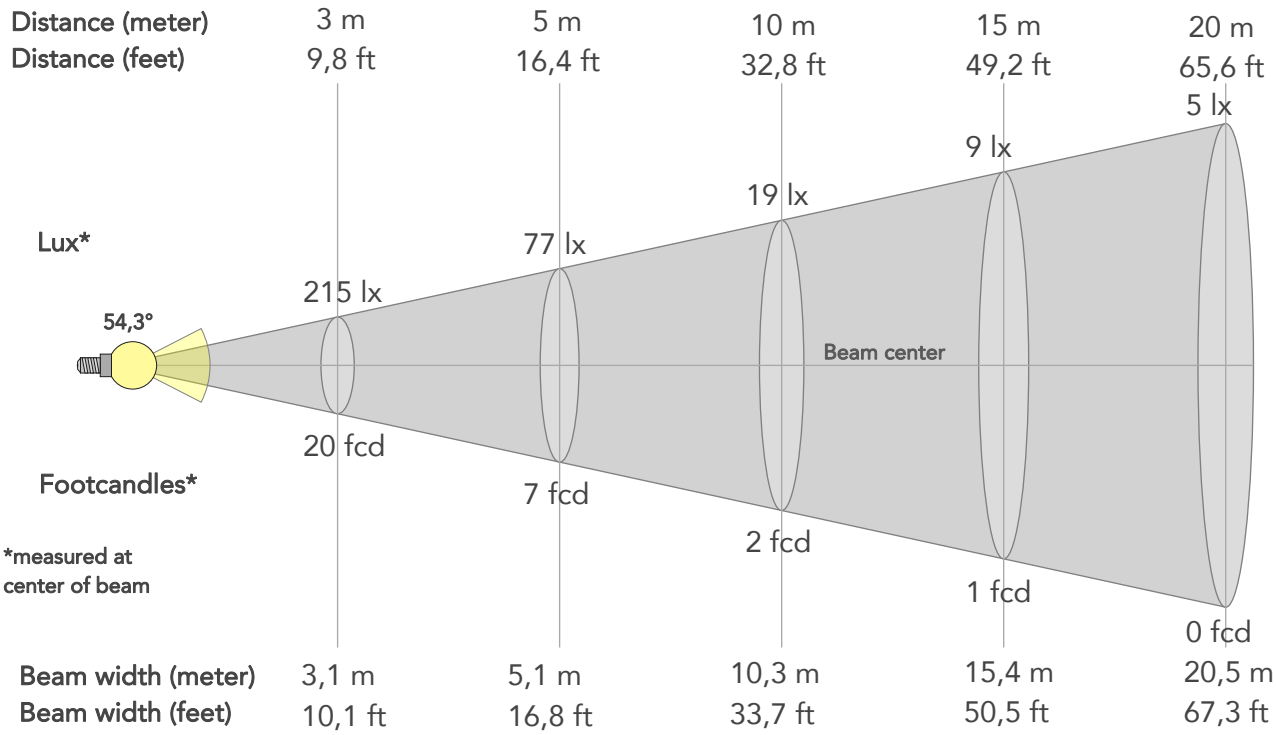
Beam angle 50%: 54,3°
Field angle 10%: 80,9°
Cut off angle 2.5%: 115,2°

Spectra



BEAM DETAILS

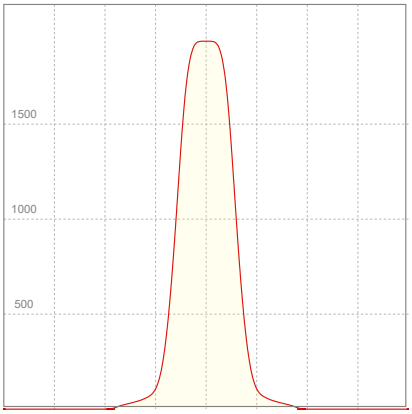
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,3°	80,9°	115,2°	96,5%	91,4%



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	1936lx	484lx	215lx	121lx	77lx	34lx	19lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	180fcd	45fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1m	2,1m	3,1m	4,1m	5,1m	7,7m	10,3m	15,4m	20,5m	25,7m	30,8m	41,1m	51,3m
Beam wid.	3,4ft	6,8ft	10,1ft	13,4ft	16,8ft	25,2ft	33,7ft	50,5ft	67,3ft	84,2ft	101ft	134,7ft	168,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,192A	34,3W	49lm/W

Power FC
0,79

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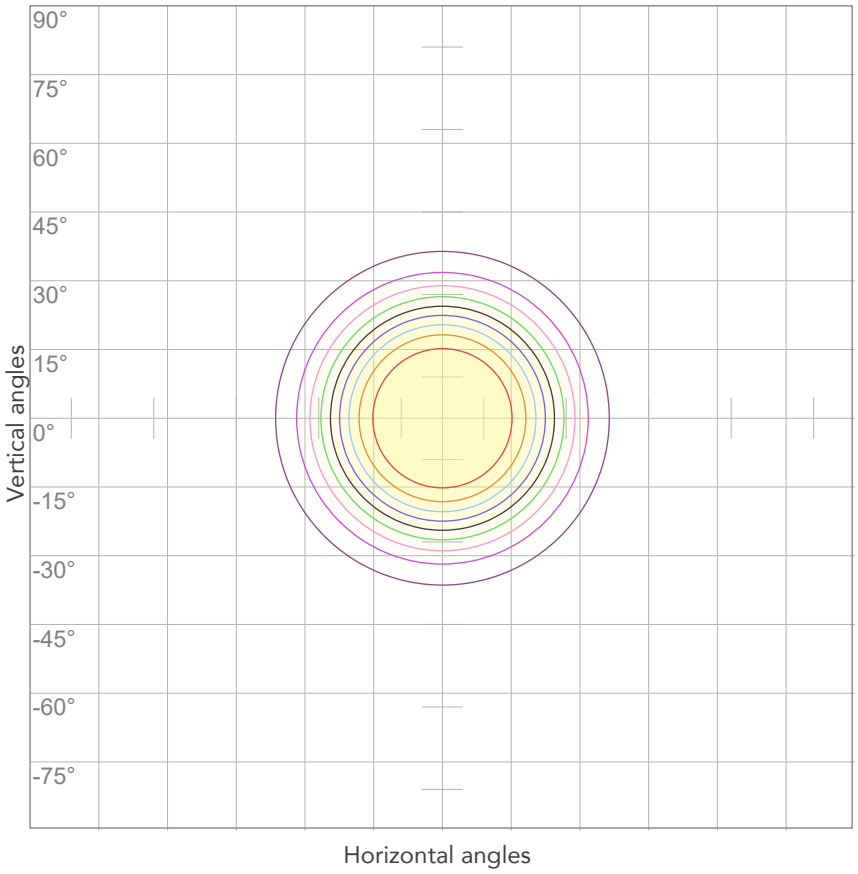
ISO DIAGRAMS

ISO CANDELA DIAGRAM



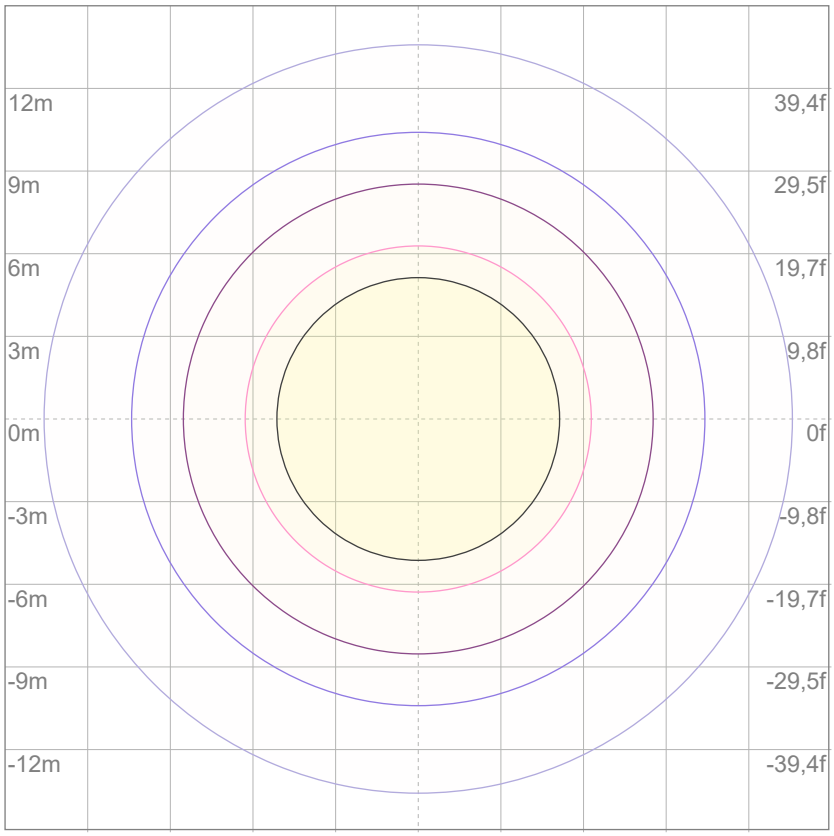
10%	194 cd
20%	387 cd
30%	581 cd
40%	775 cd
50%	968 cd
60%	1162 cd
70%	1355 cd
80%	1549 cd

Conditions:

Number of c-planes: 2

Candela at center: 1936 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,581 lx
5%	0,968 lx
10%	1,94 lx
30%	5,81 lx
50%	9,68 lx

Conditions:

Number of c-planes: 2

Lux at center: 19,4 lx

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

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Total lumen output:

345 lm

Peak candela output:

1528 cd

PRODUCT NAME:

ECLPENDANTJR FC

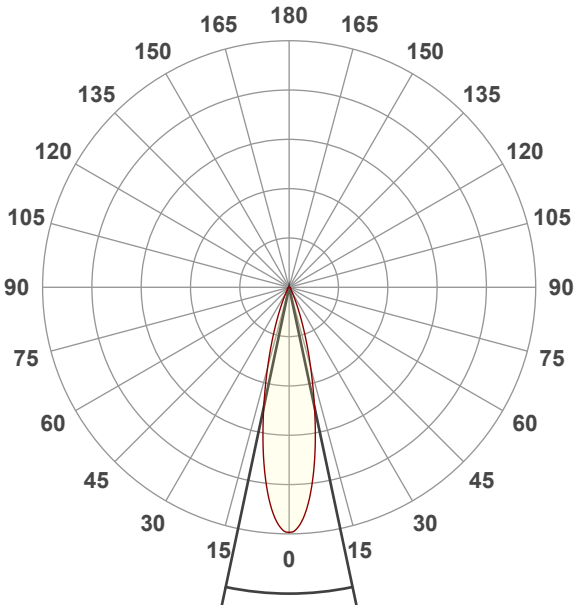
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
Blue

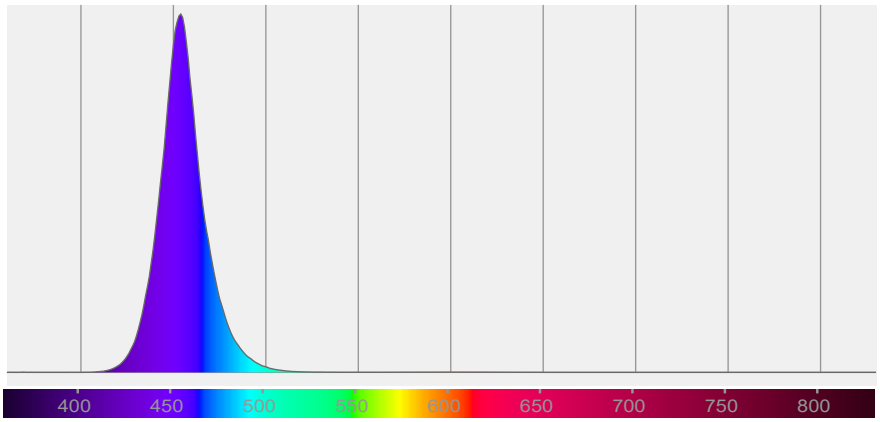
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:37:41



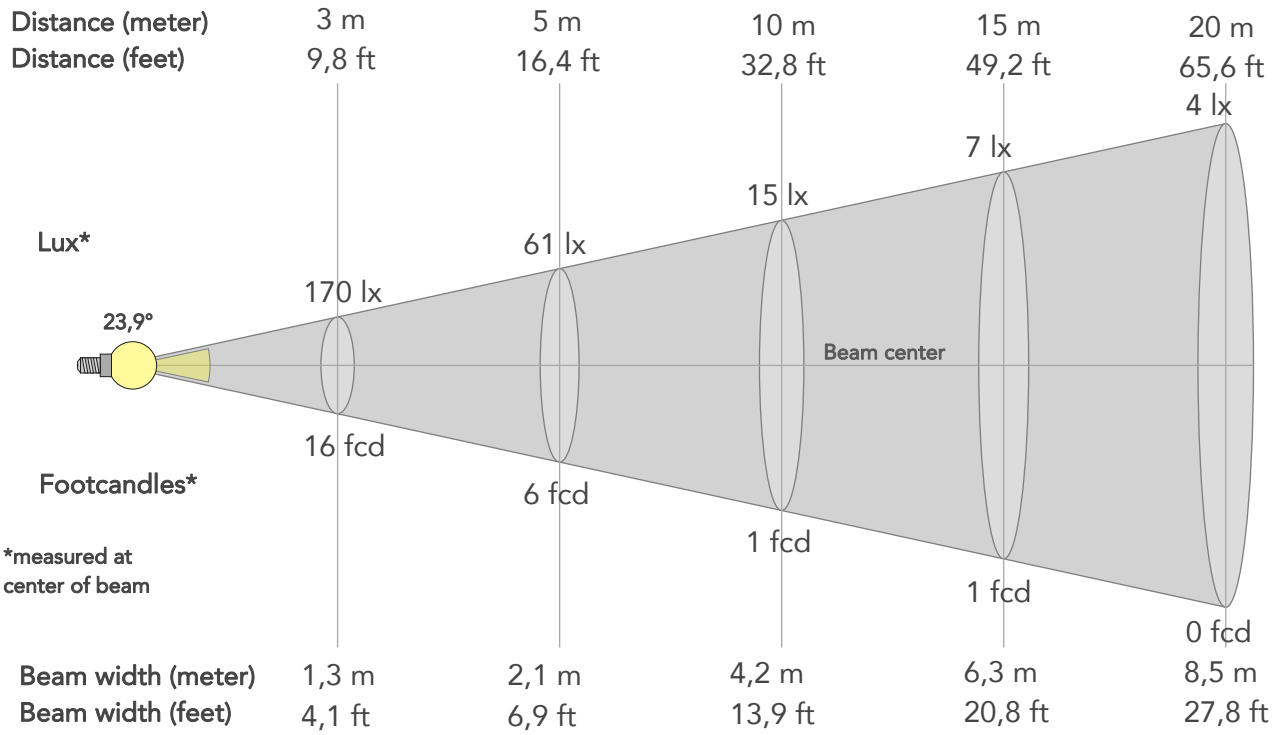
Beam angle 50%: 23,9°
Field angle 10%: 44,7°
Cut off angle 2.5%: 60,7°

Spectra



BEAM DETAILS

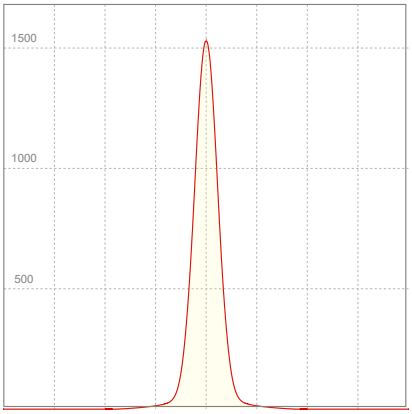
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,9°	44,7°	60,7°	98,5%	95,0%



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	1528lx	382lx	170lx	96lx	61lx	27lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx
Footcand.	142fcd	35fcd	16fcd	9fcd	6fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,8m	1,3m	1,7m	2,1m	3,2m	4,2m	6,3m	8,5m	10,6m	12,7m	16,9m	21,2m
Beam wid.	1,4ft	2,8ft	4,1ft	5,5ft	6,9ft	10,4ft	13,9ft	20,8ft	27,8ft	34,7ft	41,7ft	55,5ft	69,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,186A	33,0W	10lm/W

Power FC
0,79

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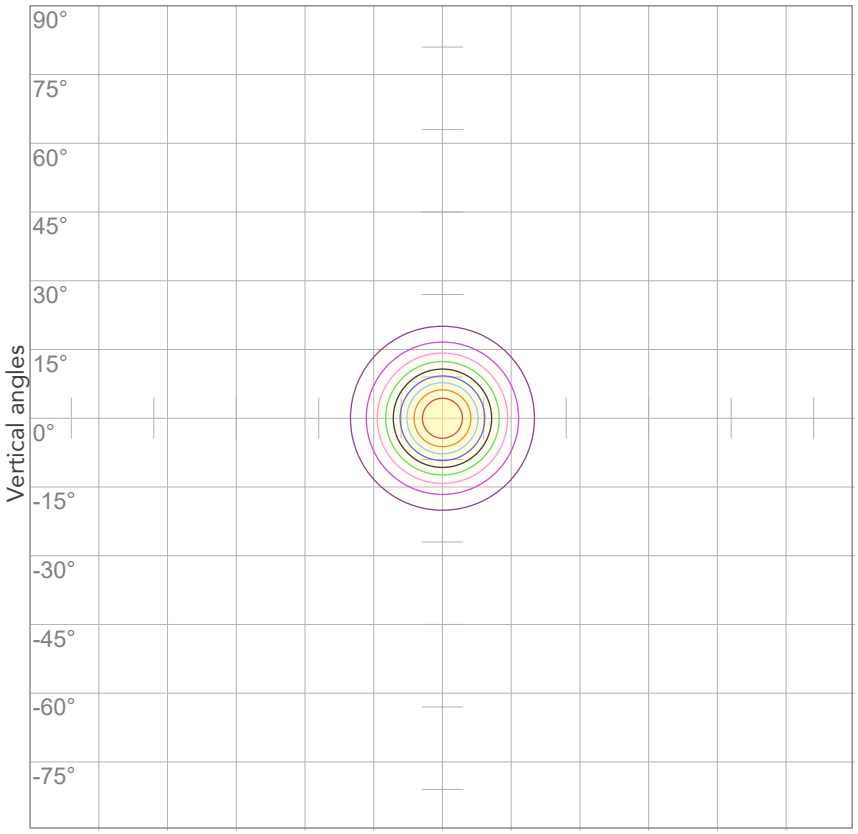
ISO DIAGRAMS

ISO CANDELA DIAGRAM



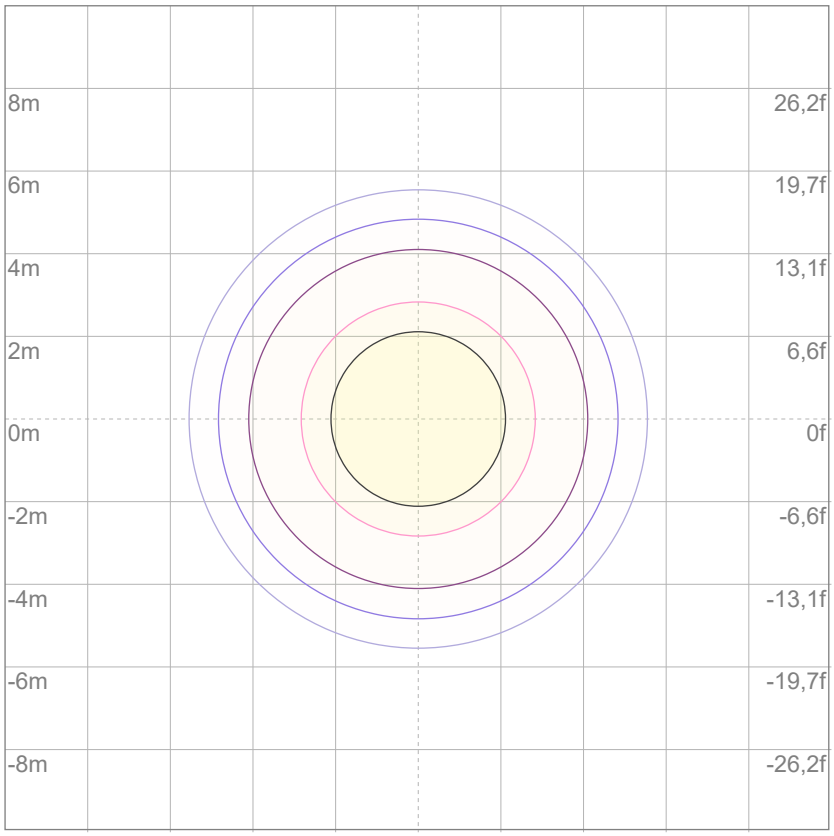
10%	153 cd
20%	306 cd
30%	458 cd
40%	611 cd
50%	764 cd
60%	917 cd
70%	1070 cd
80%	1223 cd

Conditions:

Number of c-planes: 2

Candela at center: 1528 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,458 lx
5%	0,764 lx
10%	1,53 lx
30%	4,58 lx
50%	7,64 lx

Conditions:

Number of c-planes: 2

Lux at center: 15,3 lx

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

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Total lumen output:

349 lm

Peak candela output:

702 cd

PRODUCT NAME:

ECLPENDANTJR FC

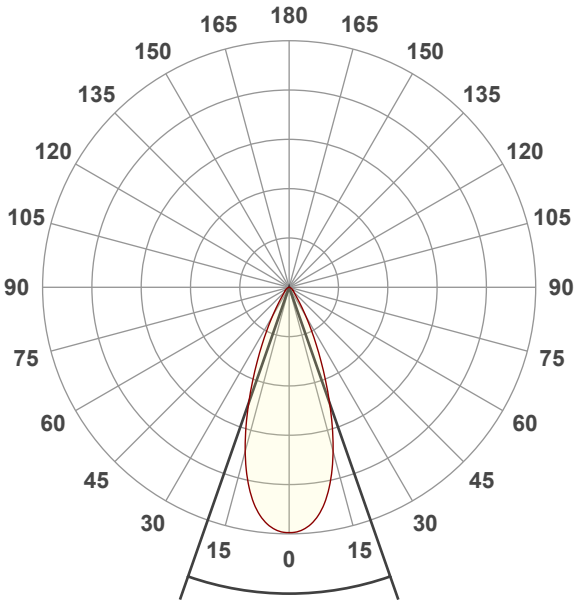
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
Blue

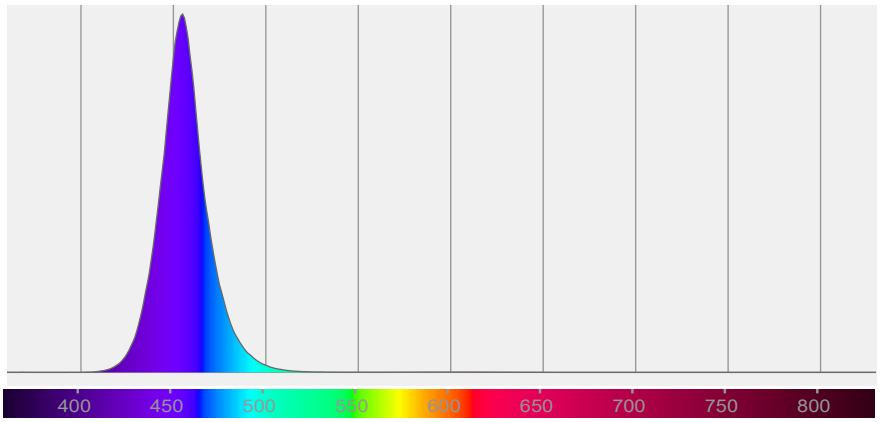
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:08:48



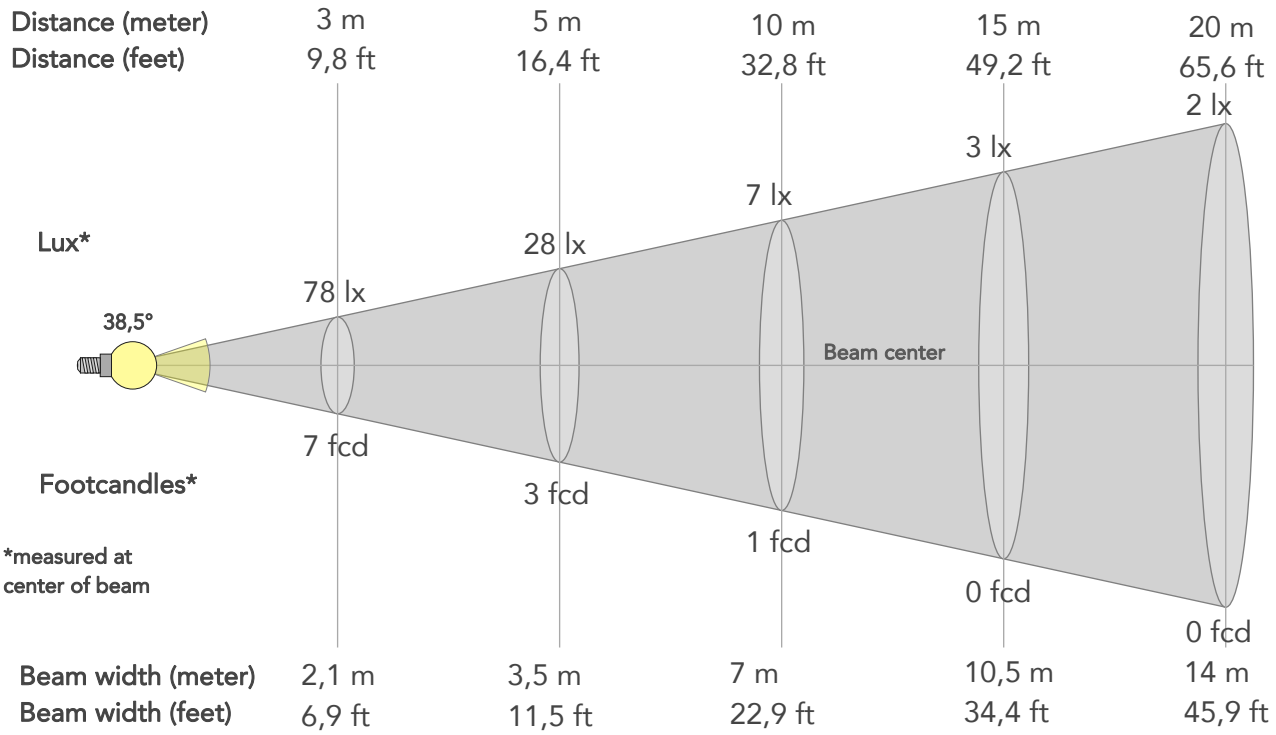
Beam angle 50%: 38,5°
Field angle 10%: 64,4°
Cut off angle 2.5%: 92,3°

Spectra



BEAM DETAILS

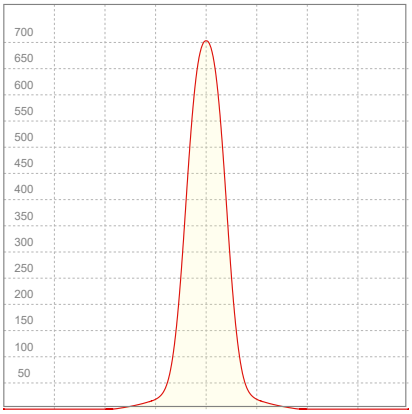
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38,5°	64,4°	92,3°	97,4%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	702lx	176lx	78lx	44lx	28lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	65fcd	16fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,8m	3,5m	5,2m	7m	10,5m	14m	17,5m	21m	28m	35m
Beam wid.	2,3ft	4,6ft	6,9ft	9,2ft	11,5ft	17,2ft	22,9ft	34,4ft	45,9ft	57,3ft	68,8ft	91,7ft	114,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,181A	31,9W	11lm/W

Power FC
0,78

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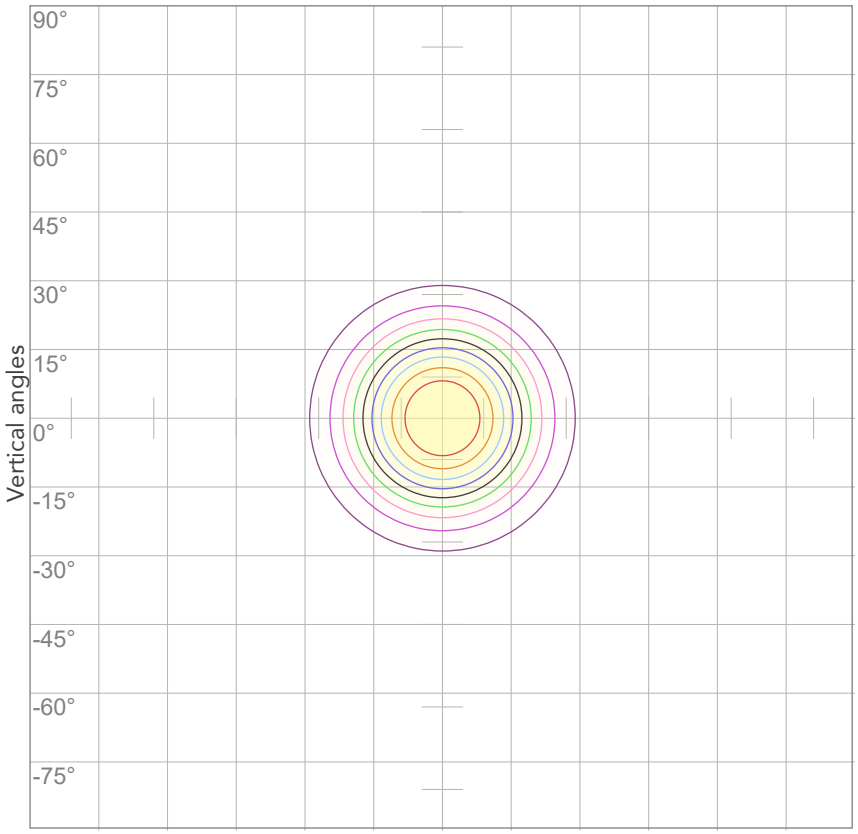
ISO DIAGRAMS

ISO CANDELA DIAGRAM



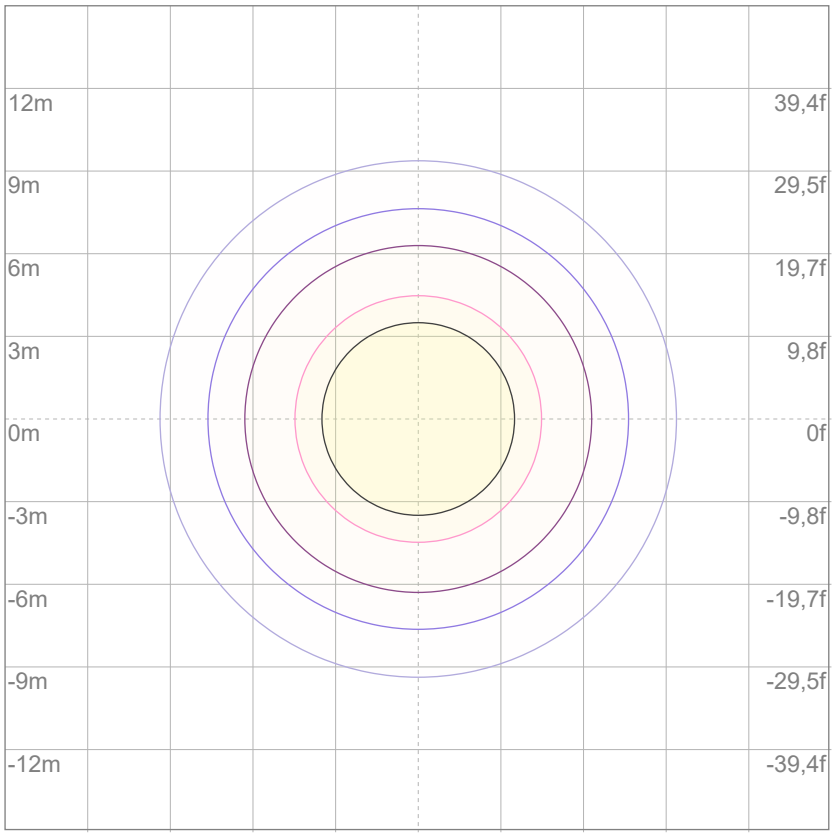
10%	70 cd
20%	140 cd
30%	211 cd
40%	281 cd
50%	351 cd
60%	421 cd
70%	492 cd
80%	562 cd

Conditions:

Number of c-planes: 2

Candela at center: 702 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,211 lx
5%	0,351 lx
10%	0,702 lx
30%	2,11 lx
50%	3,51 lx

Conditions:

Number of c-planes: 2

Lux at center: 7,02 lx

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

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Total lumen output:

352 lm

Peak candela output:

508 cd

PRODUCT NAME:

ECLPENDANTJR FC

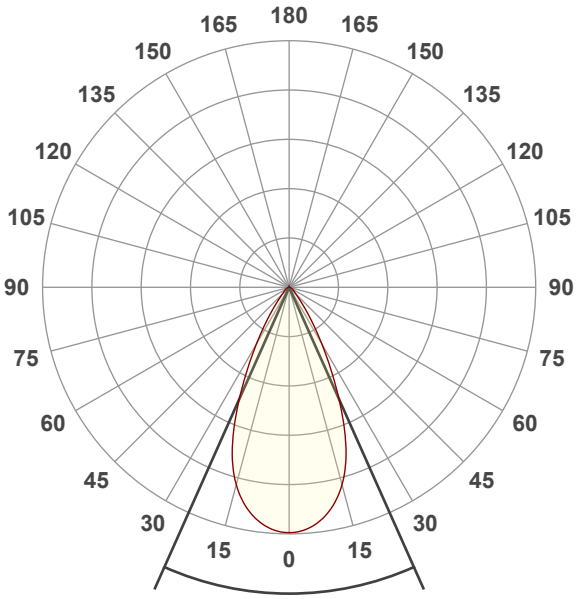
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
Blue

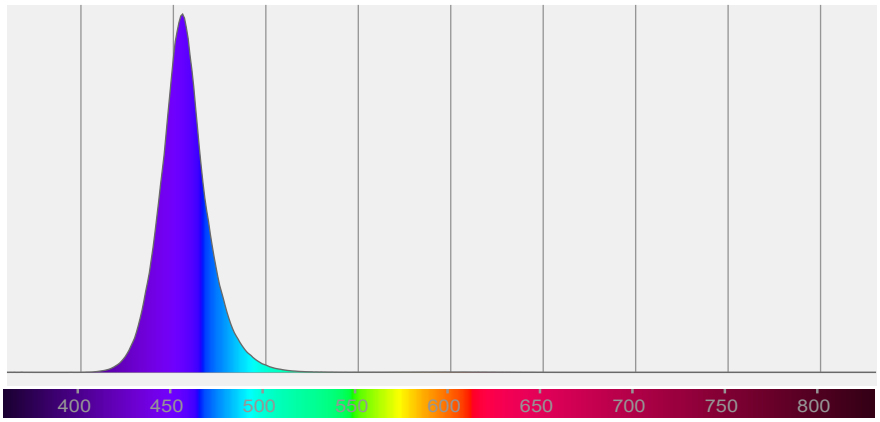
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:39:45



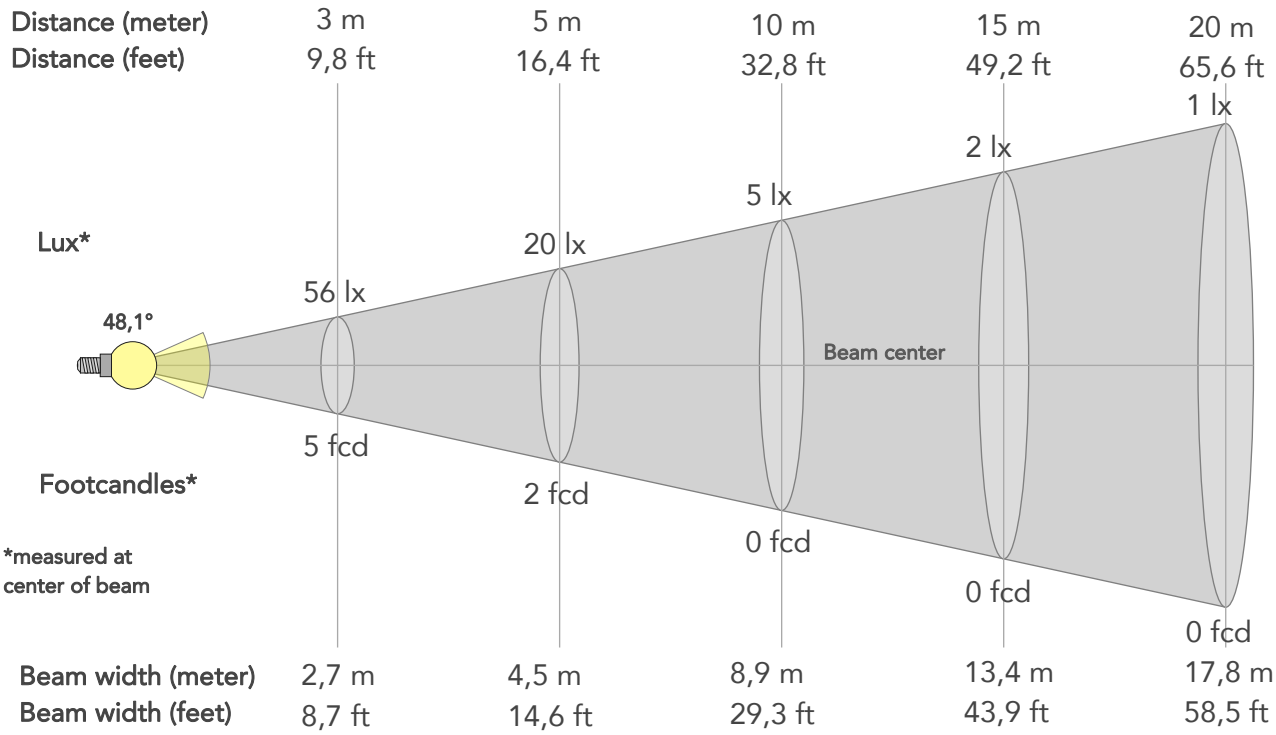
Beam angle 50%: 48,1°
Field angle 10%: 74,8°
Cut off angle 2.5%: 102,8°

Spectra



BEAM DETAILS

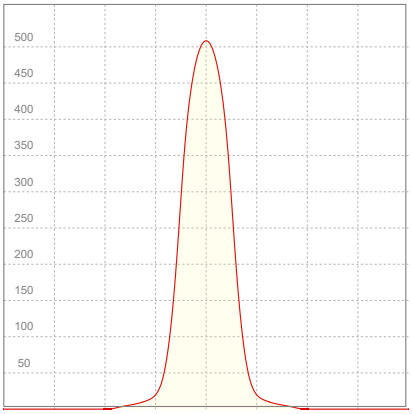
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,1°	74,8°	102,8°	97,0%	92,4%



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	508lx	127lx	56lx	32lx	20lx	9lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	47fcd	12fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	8,9m	13,4m	17,8m	22,3m	26,8m	35,7m	44,6m
Beam wid.	2,9ft	5,9ft	8,7ft	11,7ft	14,6ft	21,9ft	29,3ft	43,9ft	58,5ft	73,1ft	87,8ft	117ft	146,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,181A	31,7W	11lm/W

Power FC
0,78

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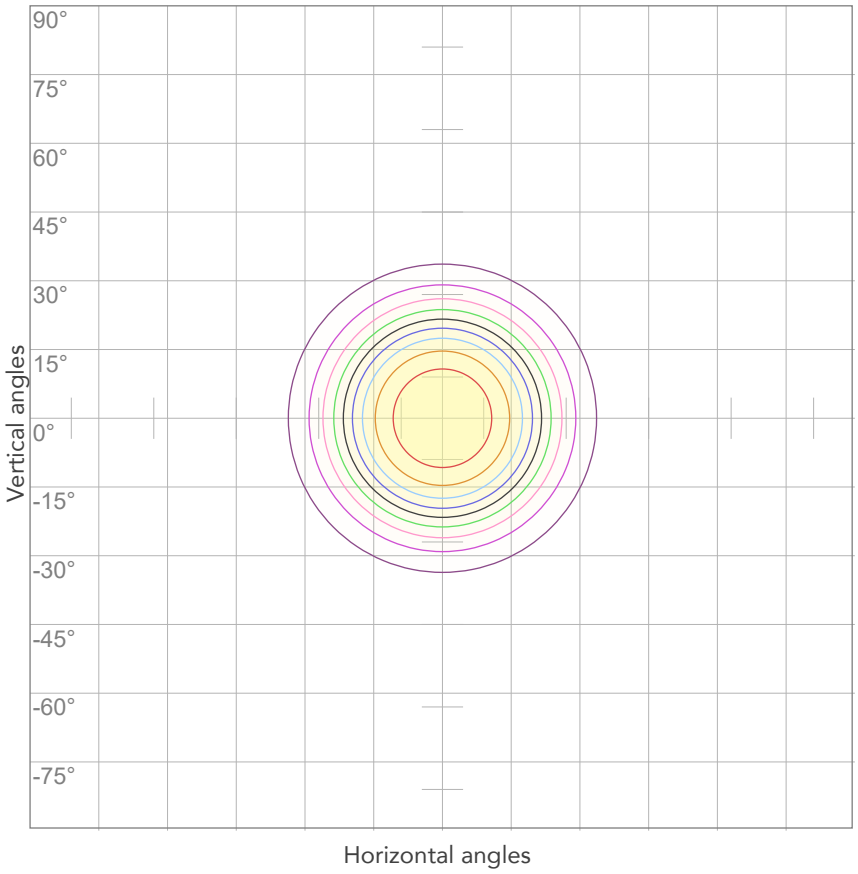
ISO DIAGRAMS

ISO CANDELA DIAGRAM



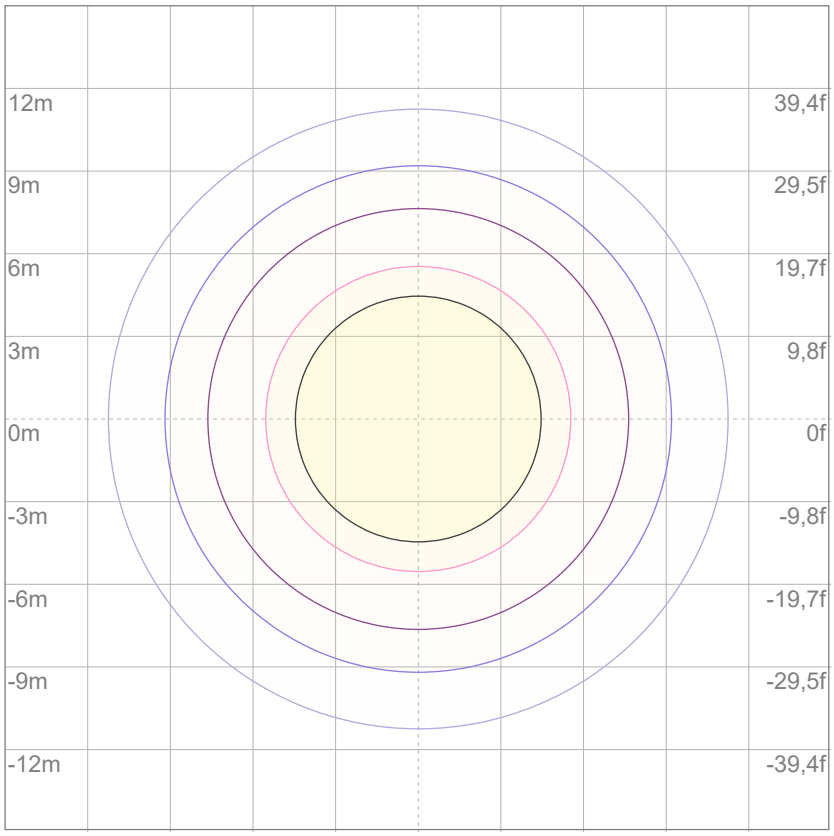
10%	51 cd
20%	102 cd
30%	152 cd
40%	203 cd
50%	254 cd
60%	305 cd
70%	355 cd
80%	406 cd

Conditions:

Number of c-planes: 2

Candela at center: 508 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,152 lx
5%	0,254 lx
10%	0,508 lx
30%	1,52 lx
50%	2,54 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,08 lx

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

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Total lumen output:

3473 lm

Peak candela output:

13404 cd

PRODUCT NAME:

ECLPENDANTJR FC

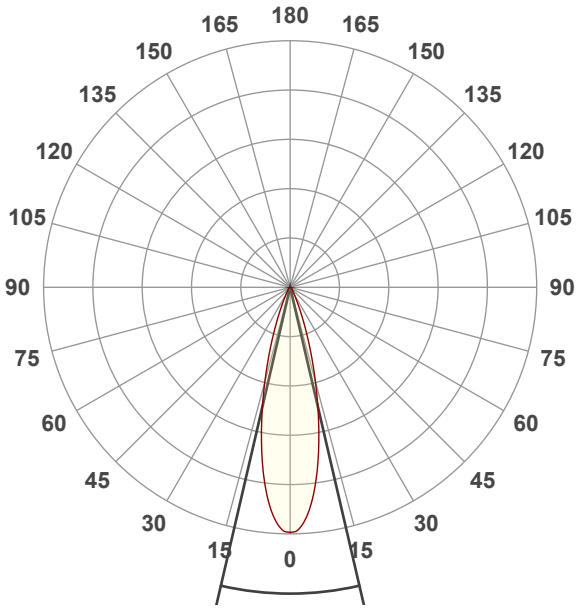
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
White

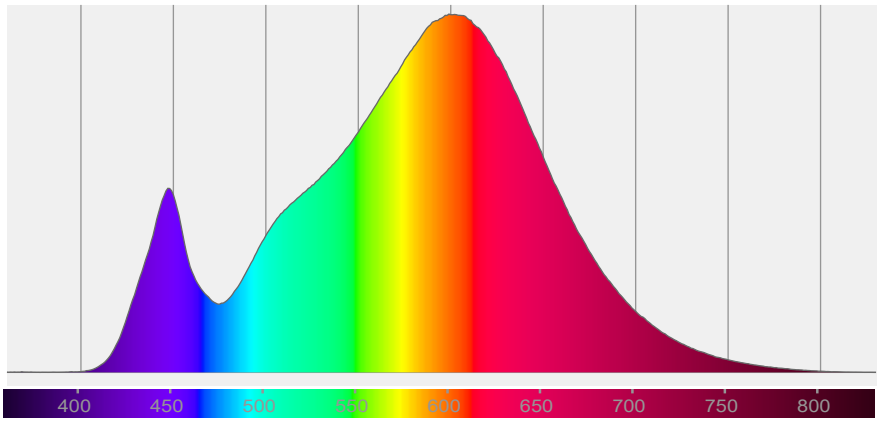
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:41:07



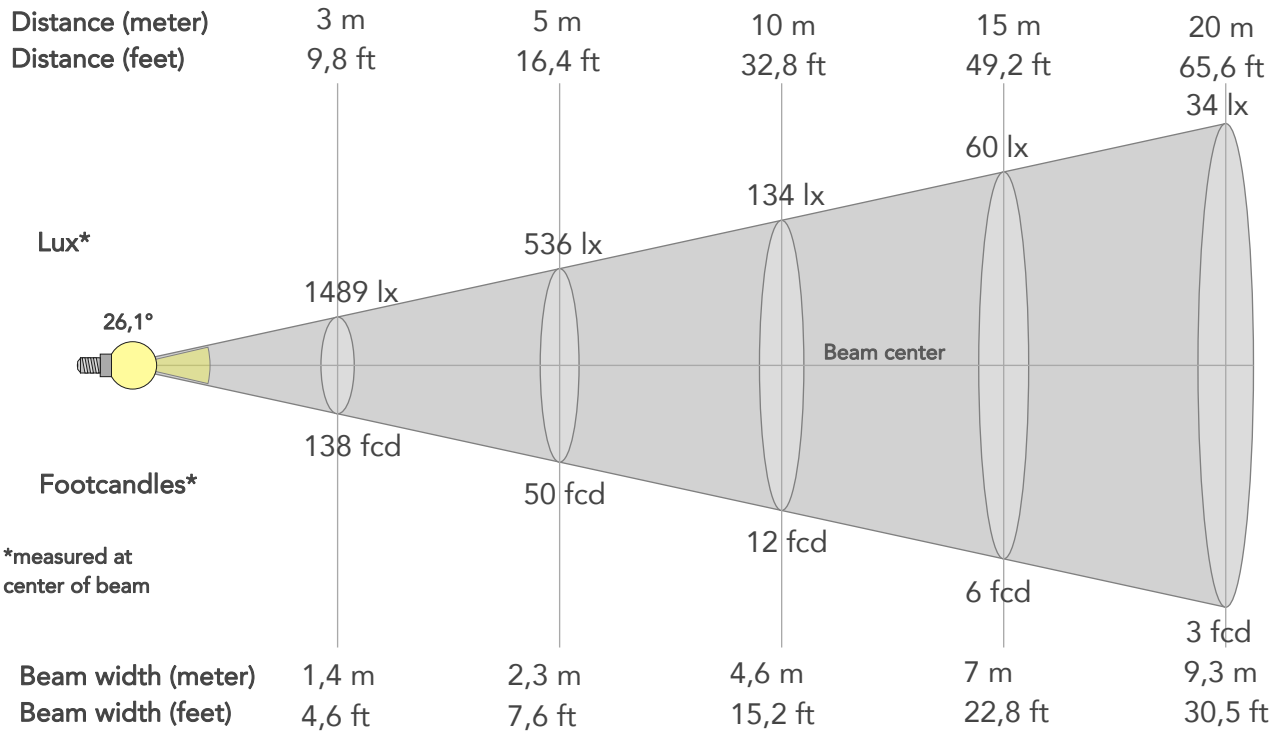
Beam angle 50%: 26,1°
Field angle 10%: 47,1°
Cut off angle 2.5%: 64,6°

Spectra



BEAM DETAILS

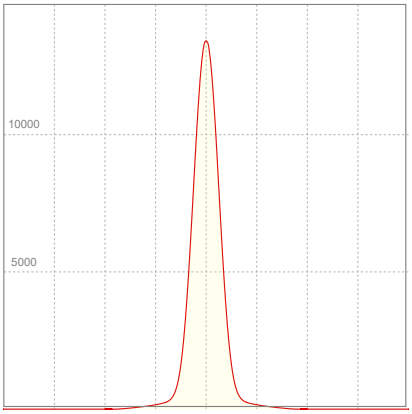
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,1°	47,1°	64,6°	98,2%	94,0%



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	13404lx	3351lx	1489lx	838lx	536lx	238lx	134lx	60lx	34lx	21lx	15lx	8lx	5lx
Footcand.	1245fcd	311fcd	138fcd	78fcd	50fcd	22fcd	12fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,6m	7m	9,3m	11,6m	13,9m	18,6m	23,2m
Beam wid.	1,5ft	3,1ft	4,6ft	6,1ft	7,6ft	11,4ft	15,2ft	22,8ft	30,5ft	38,1ft	45,7ft	60,9ft	76,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,344A	69,9W	50lm/W

Power FC
0,9

Via A. Olivetti snc
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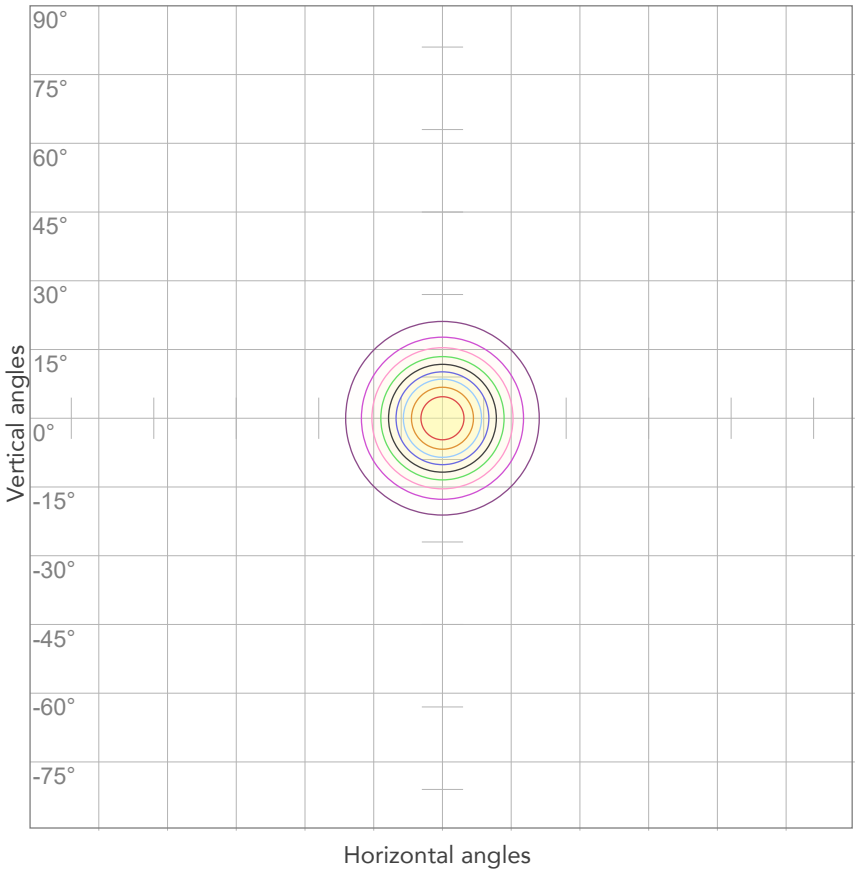
ISO DIAGRAMS

ISO CANDELA DIAGRAM



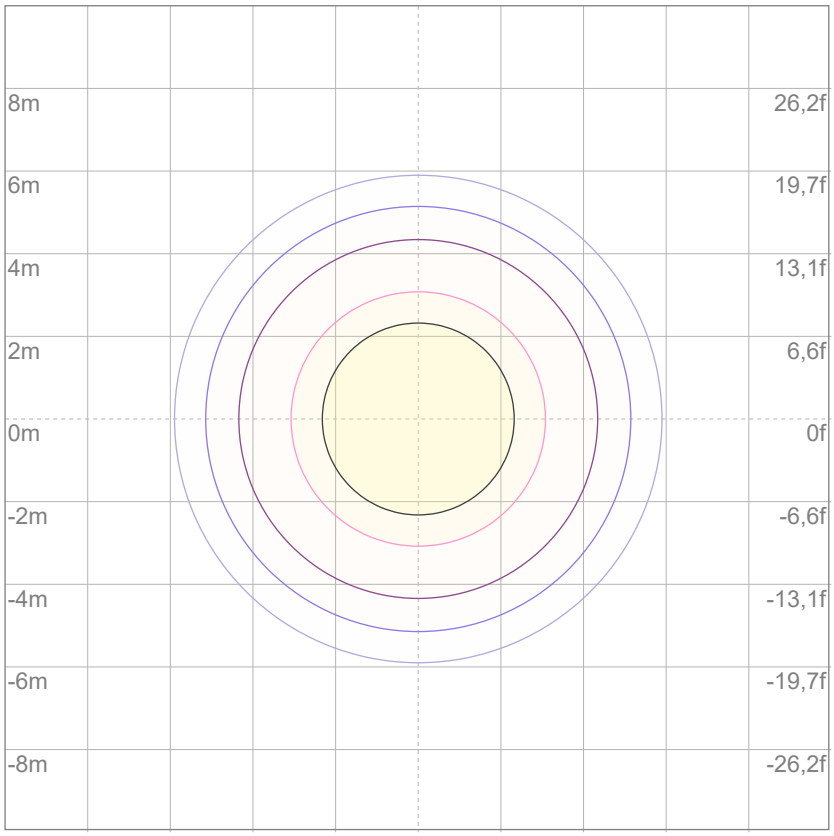
10%	1340 cd
20%	2681 cd
30%	4021 cd
40%	5362 cd
50%	6702 cd
60%	8042 cd
70%	9383 cd
80%	10723 cd

Conditions:

Number of c-planes: 2

Candela at center: 13404 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,02 lx
5%	6,70 lx
10%	13,4 lx
30%	40,2 lx
50%	67,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 134 lx

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

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Total lumen output:

3416 lm

Peak candela output:

6311 cd

PRODUCT NAME:

ECLPENDANTJR FC

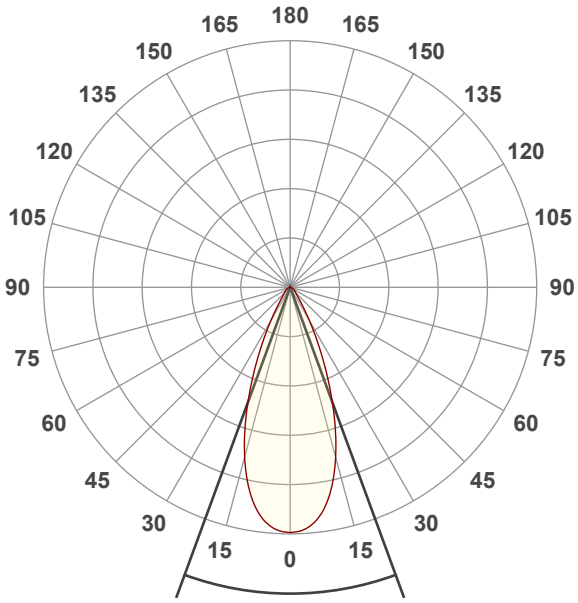
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
White

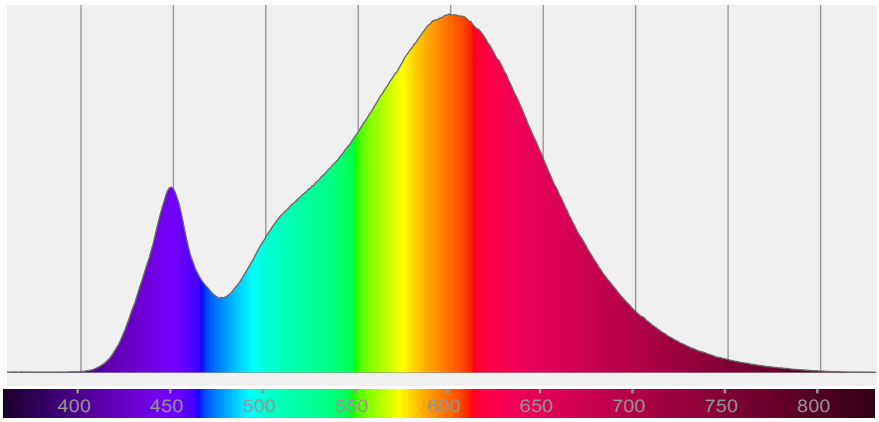
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:22:49



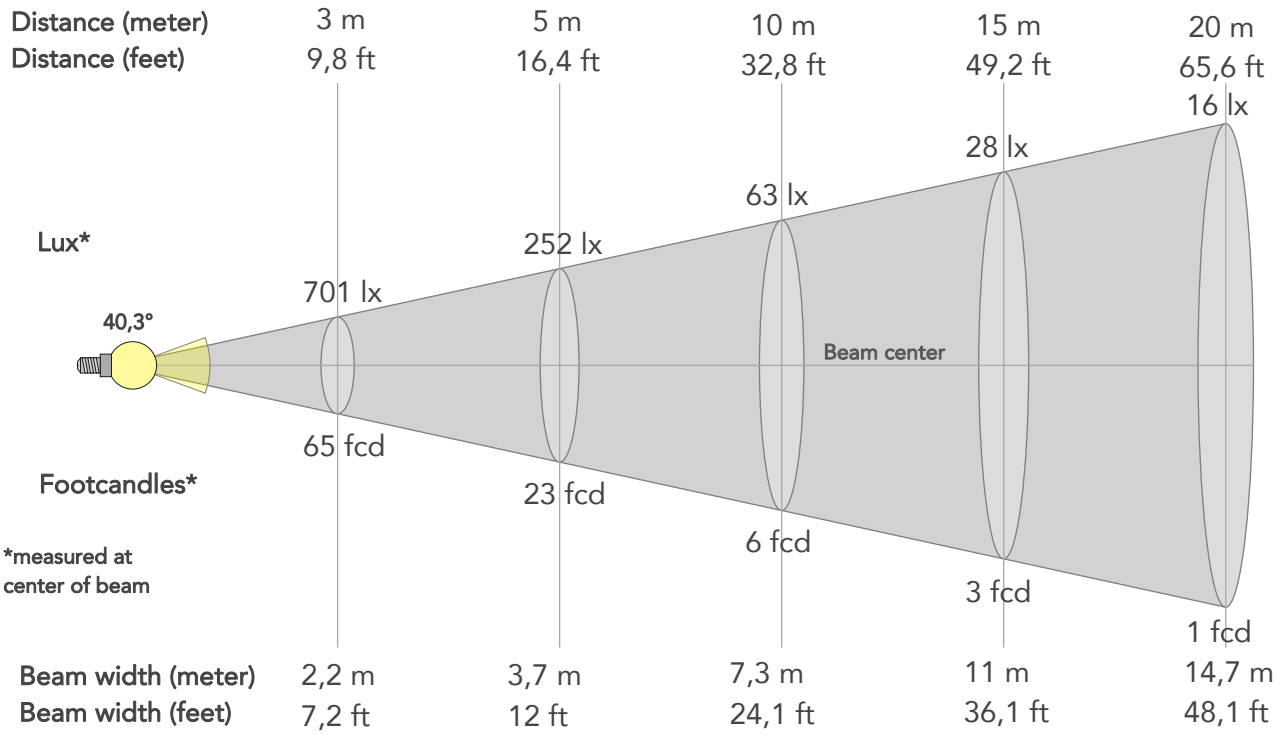
Beam angle 50%: 40,3°
Field angle 10%: 66,6°
Cut off angle 2.5%: 101,7°

Spectra



BEAM DETAILS

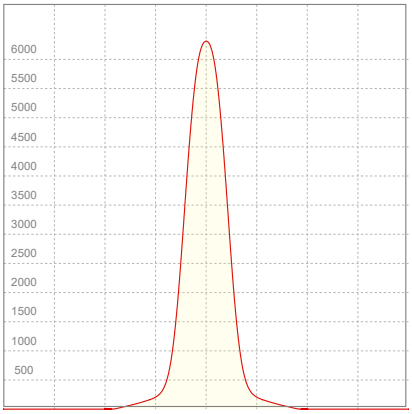
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,3°	66,6°	101,7°	96,7%	91,1%



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	6311lx	1578lx	701lx	394lx	252lx	112lx	63lx	28lx	16lx	10lx	7lx	4lx	3lx
Footcand.	586fcd	147fcd	65fcd	37fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,7m	5,5m	7,3m	11m	14,7m	18,3m	22m	29,4m	36,7m
Beam wid.	2,4ft	4,8ft	7,2ft	9,6ft	12ft	18,1ft	24,1ft	36,1ft	48,1ft	60,2ft	72,2ft	96,3ft	120,4ft

LINEAR DISTRIBUTION DIAGRAM



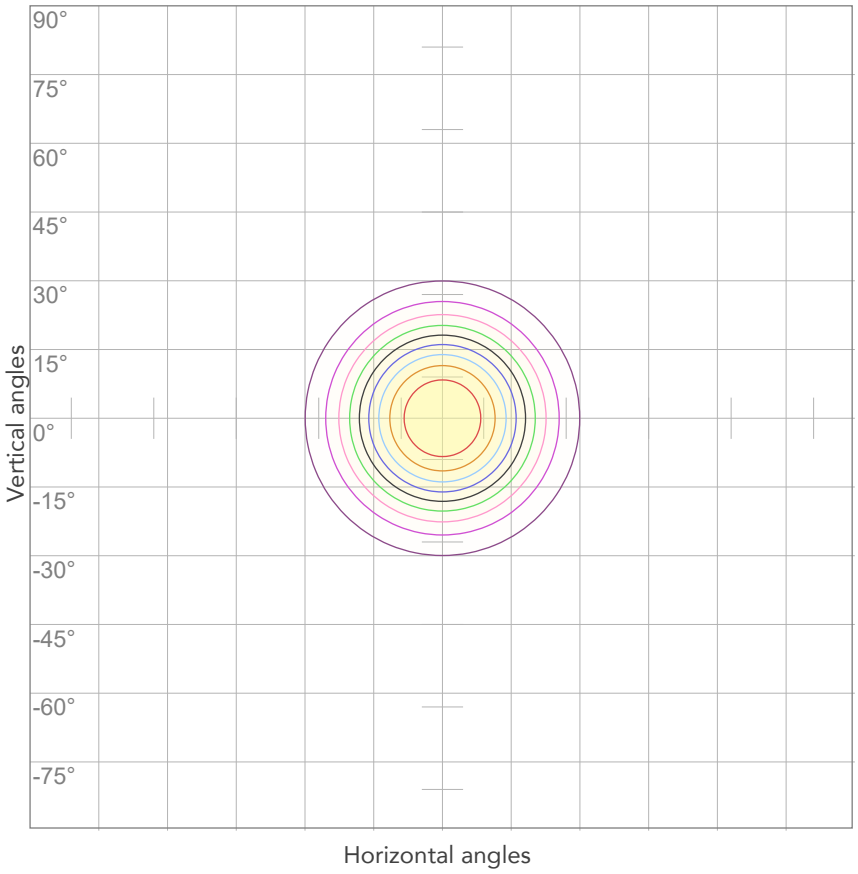
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,339A	67,9W	50lm/W

Power FC
0,89

ISO DIAGRAMS

ISO CANDELA DIAGRAM



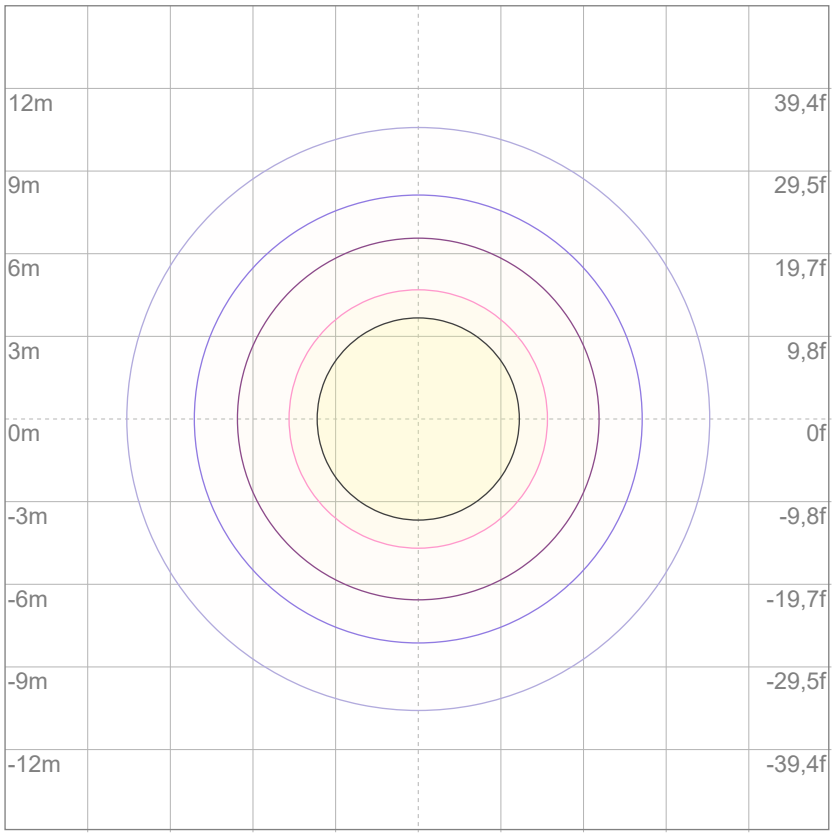
10%	631 cd
20%	1262 cd
30%	1893 cd
40%	2525 cd
50%	3156 cd
60%	3787 cd
70%	4418 cd
80%	5049 cd

Conditions:

Number of c-planes: 2

Candela at center: 6311 cd

ISO LUX DIAGRAM



3%	1,89 lx
5%	3,16 lx
10%	6,31 lx
30%	18,9 lx
50%	31,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 63,1 lx

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

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Total lumen output:

3433 lm

Peak candela output:

3981 cd

PRODUCT NAME:

ECLPENDANTJR FC

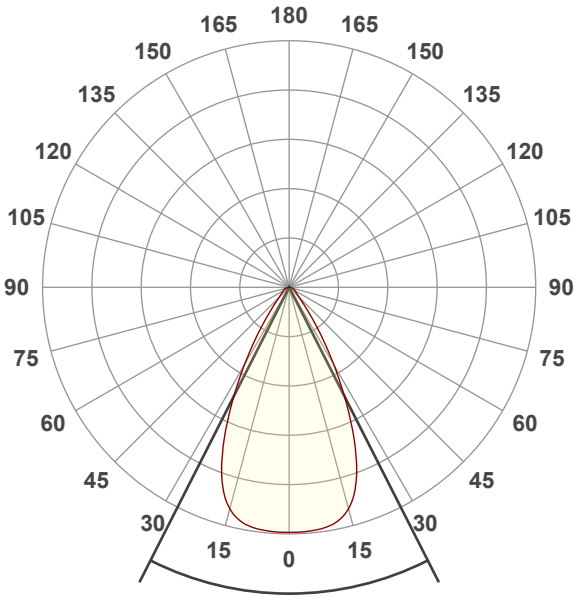
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
White

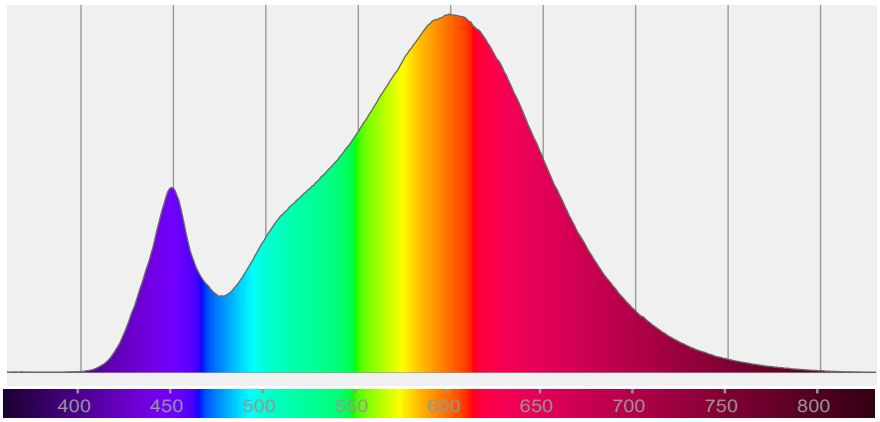
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:44:00



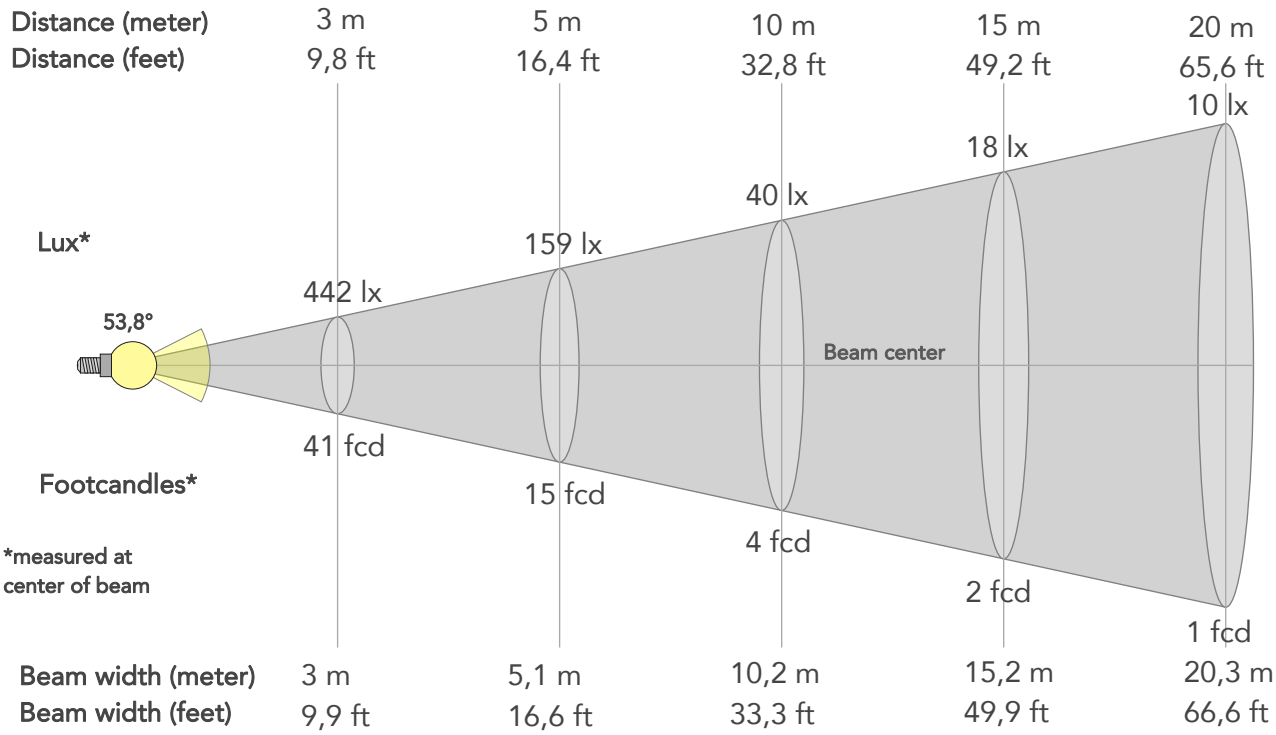
Beam angle 50%: 53,8°
Field angle 10%: 80,2°
Cut off angle 2.5%: 124,5°

Spectra



BEAM DETAILS

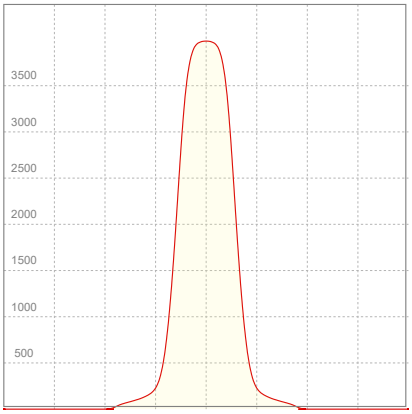
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,8°	80,2°	124,5°	95,5%	89,8%



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	3981lx	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.	1m	2m	3m	4,1m	5,1m	7,6m	10,2m	15,2m	20,3m	25,4m	30,5m	40,6m	50,8m
Beam wid.	3,4ft	6,7ft	9,9ft	13,3ft	16,6ft	25ft	33,3ft	49,9ft	66,6ft	83,2ft	99,9ft	133,2ft	166,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,335A	67,5W	51lm/W

Power FC
0,89

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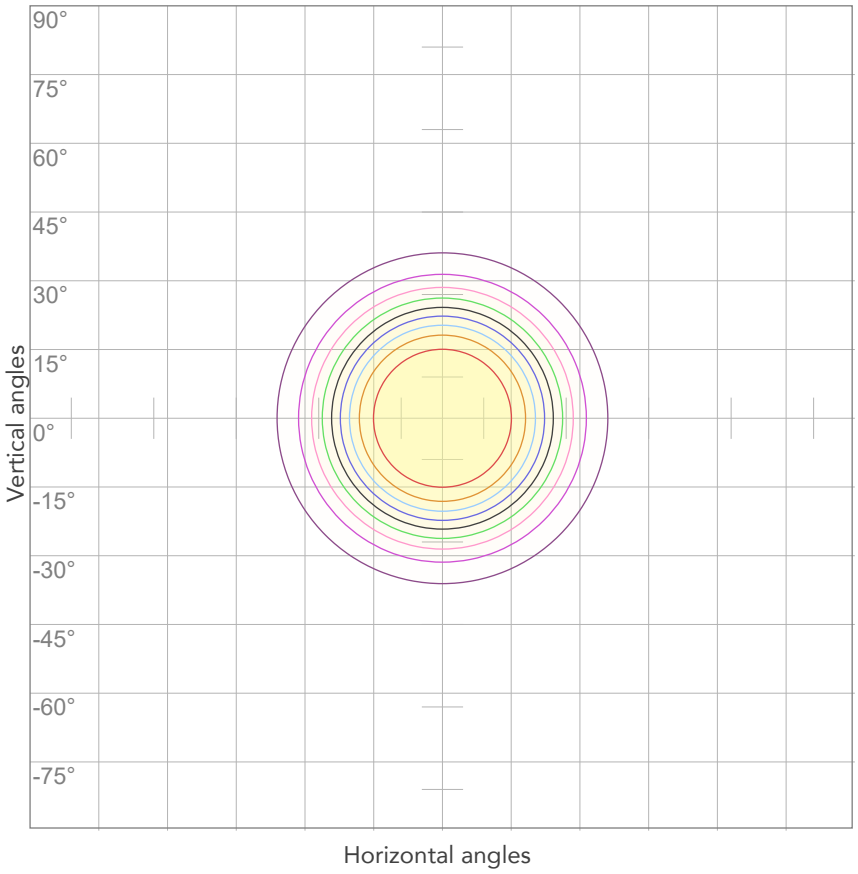
ISO DIAGRAMS

ISO CANDELA DIAGRAM



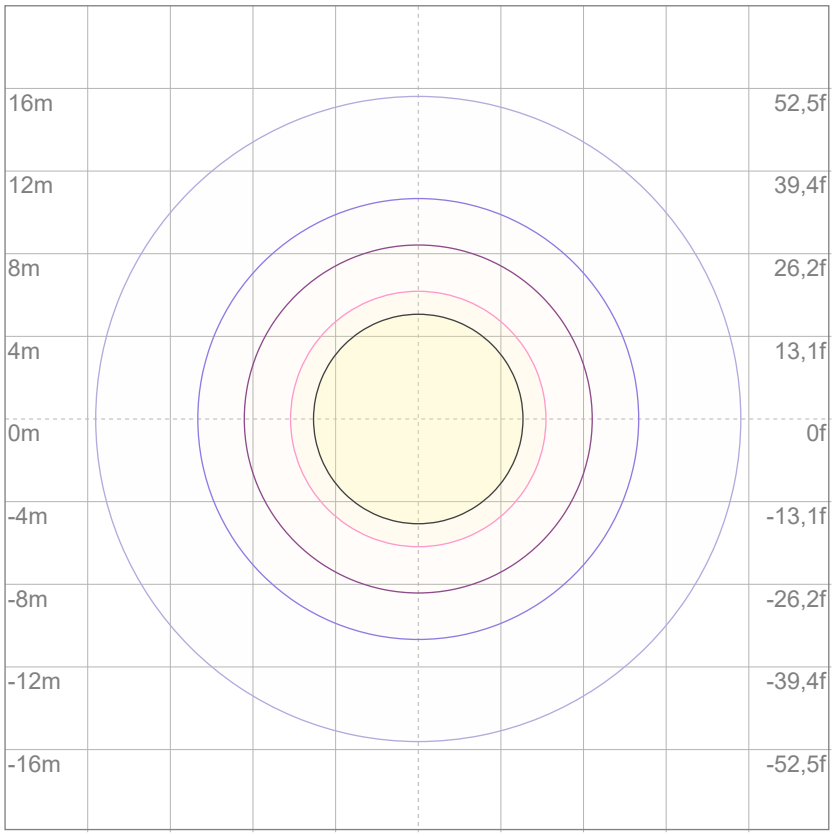
10%	398 cd
20%	796 cd
30%	1194 cd
40%	1592 cd
50%	1990 cd
60%	2389 cd
70%	2787 cd
80%	3185 cd

Conditions:

Number of c-planes: 2

Candela at center: 3981 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:

3899 lm

Peak candela output:

16339 cd

Light quality:

CRI: 93,5

Color temperature:

2803 K

PRODUCT NAME:

ECLPENDANTJR FC

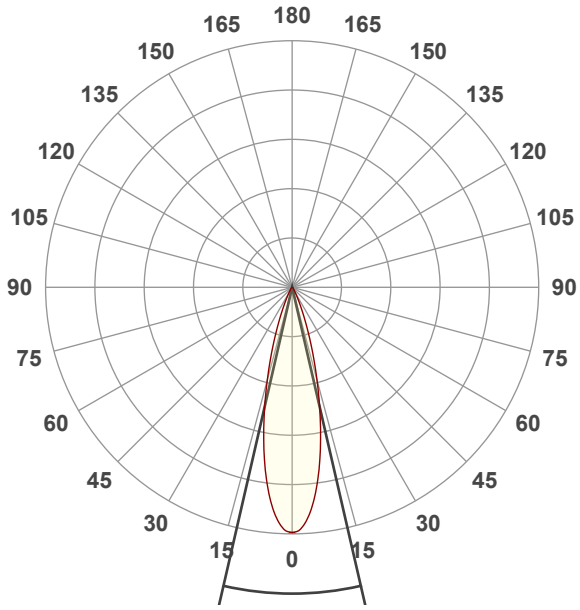
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
2800K

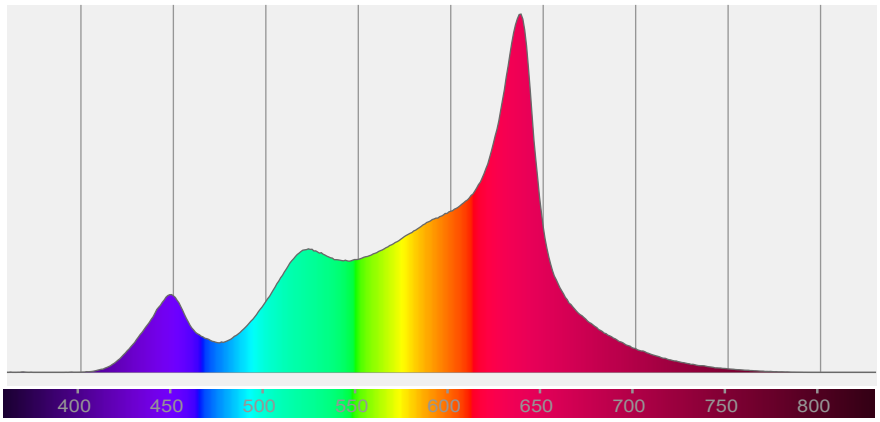
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:49:00



Beam angle 50%: 25,9°
Field angle 10%: 46,5°
Cut off angle 2.5%: 61,1°

Spectra



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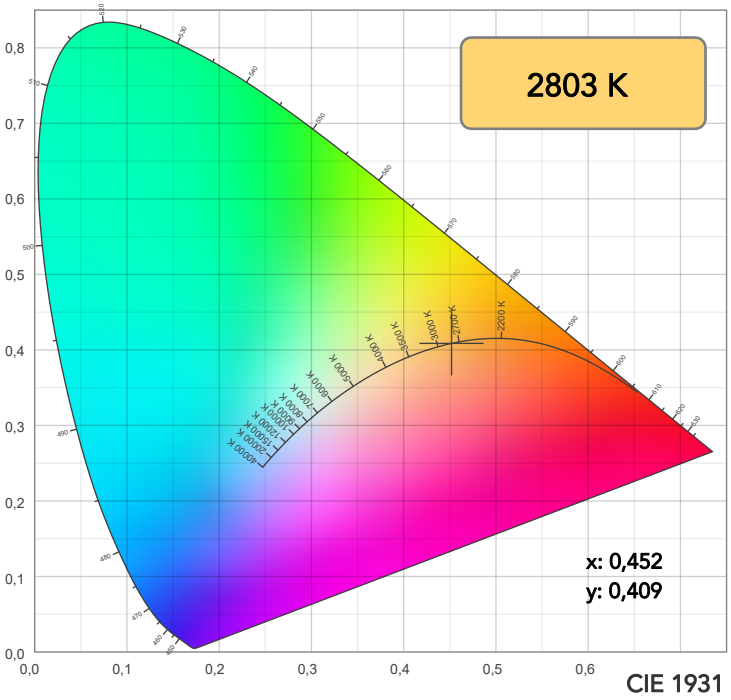
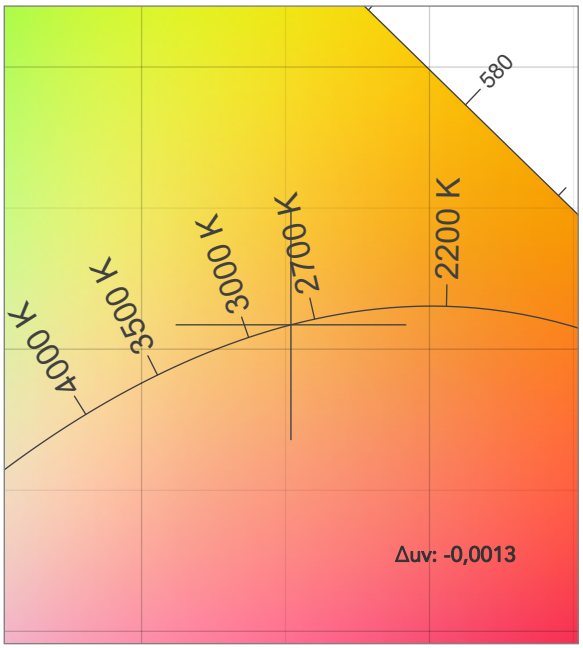
COLOR DETAILS

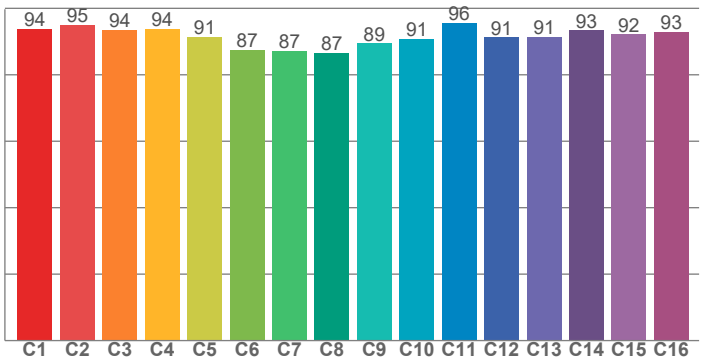


CIE 1931

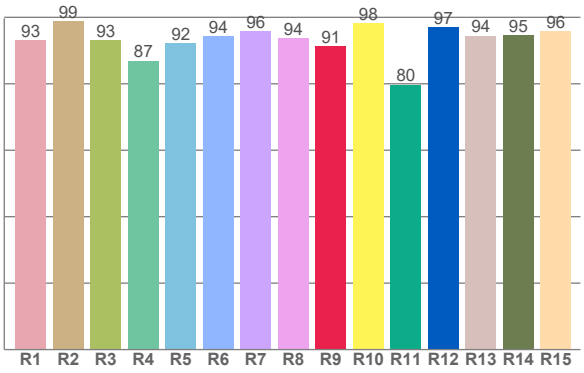


CIE 1931 ZOOM

TM30: 92,1



CRI: 93,5 (R1-R8)



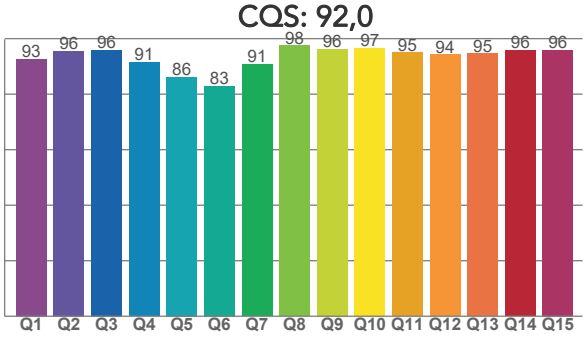
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,2	98,8	93,1	87,0	92,2	94,2	95,9	93,6	91,2	98,3	79,7	97,0	94,5	94,6	95,9

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
93,8	95,0	93,5	93,9	91,5	87,5	87,2	86,7	89,5	90,8	95,6	91,3	91,5	93,4	92,1	92,9

CQS: 92,0



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,7	95,6	96,0	91,5	86,2	83,0	90,7	97,5	96,3	96,7	94,9	94,3	94,6	95,8	95,9

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2803 K	93,5	91,2	92,1	106,4	92,0	84	0,452	0,409	-0,0013

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TM30 DETAILS

PROLiGHTS

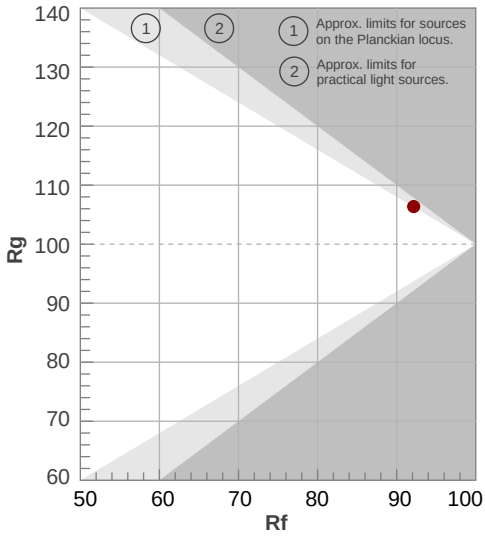
Rf 92,1

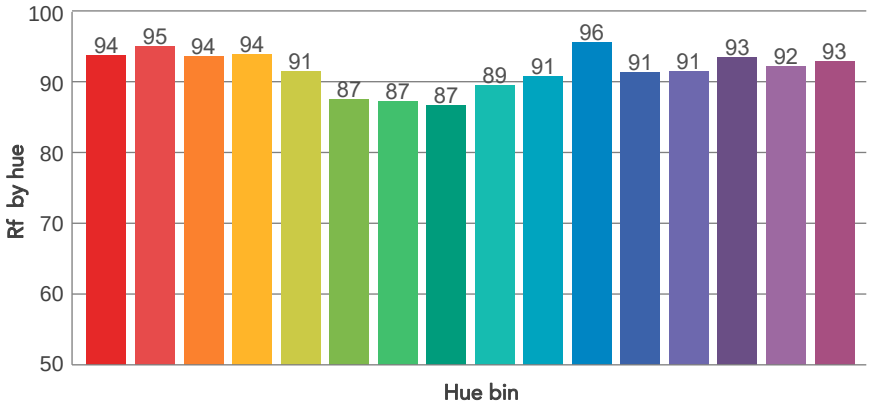
Fidelity index Rf

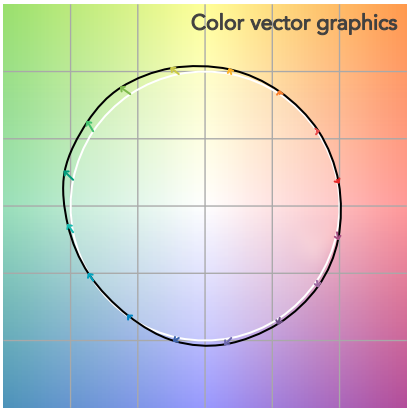
Rg 106,4

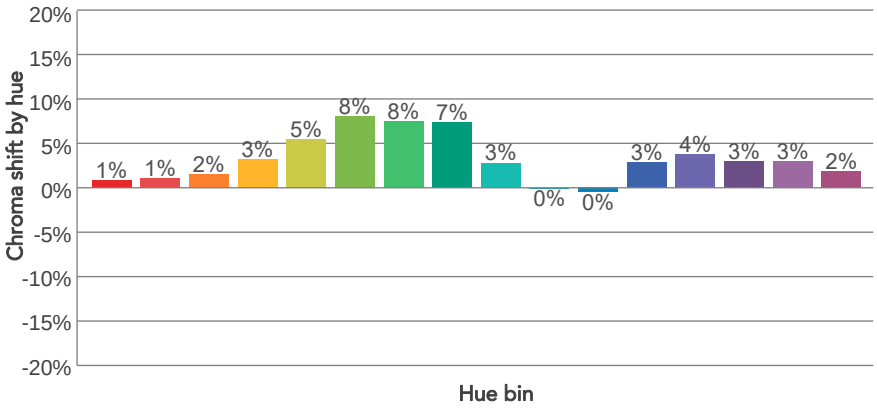
Gammut index

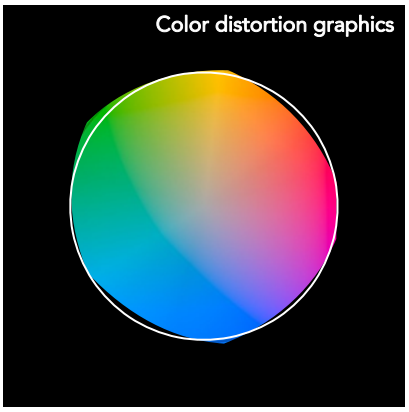
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	95	1%	-1%
3	94	2%	1%
4	94	3%	2%
5	91	5%	5%
6	87	8%	3%
7	87	8%	-3%
8	87	7%	-5%
9	89	3%	-6%
10	91	0%	-6%
11	96	0%	-2%
12	91	3%	-3%
13	91	4%	-5%
14	93	3%	-3%
15	92	3%	-3%
16	93	2%	-5%

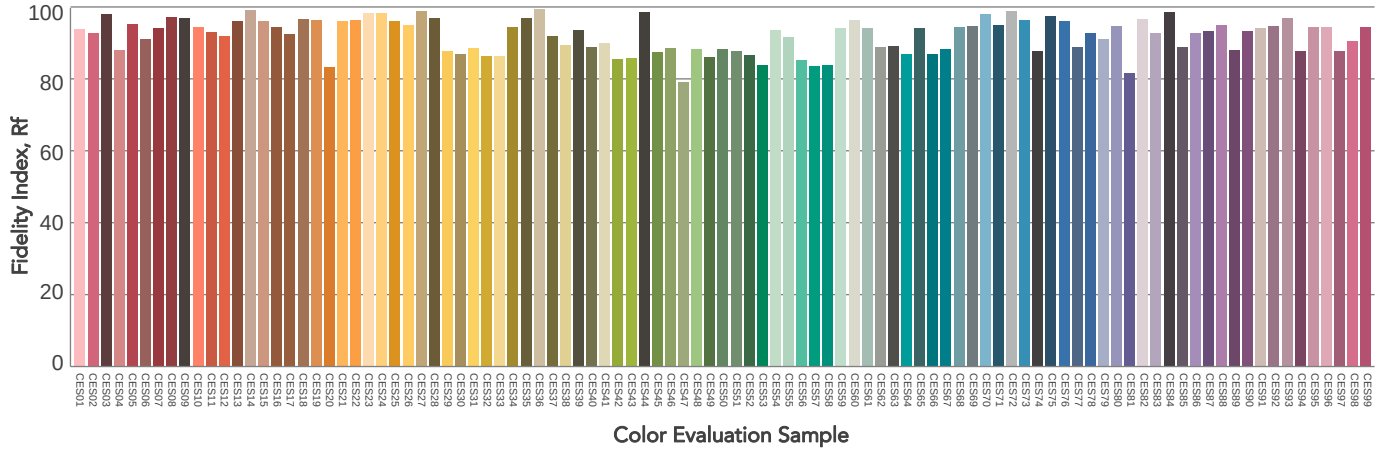












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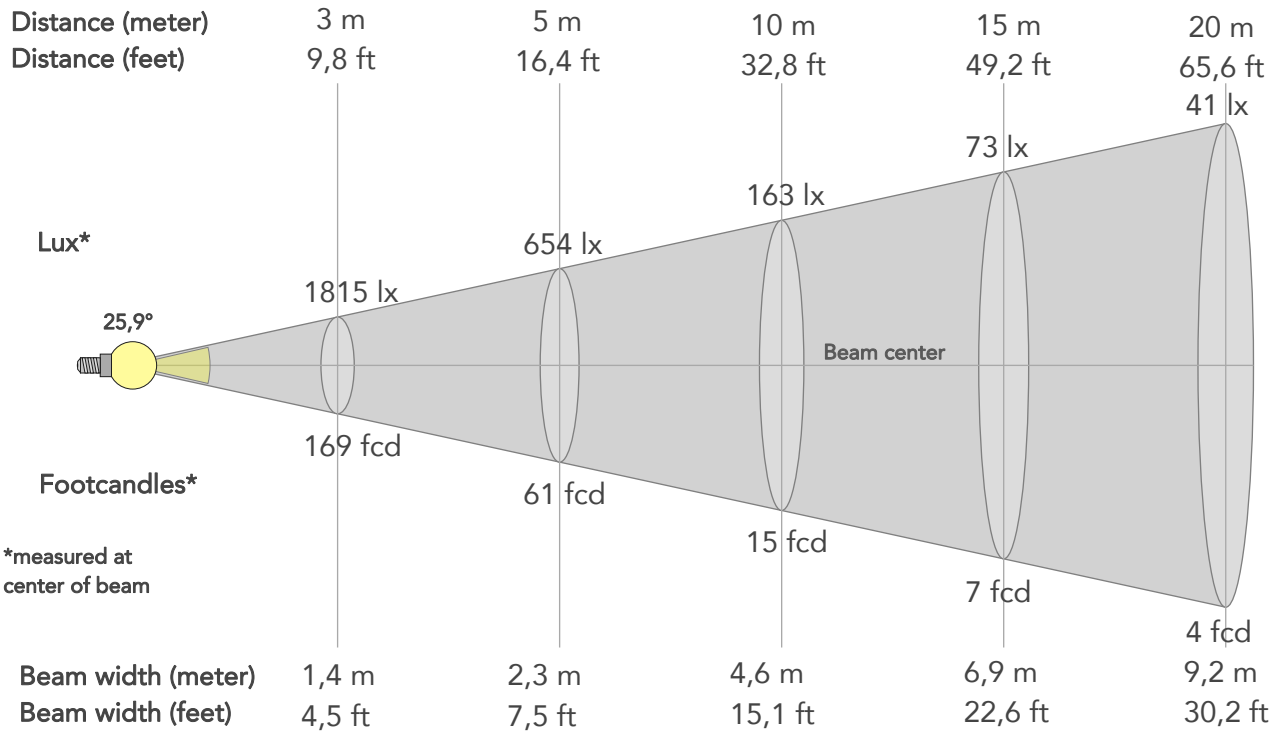
BEAM DETAILS

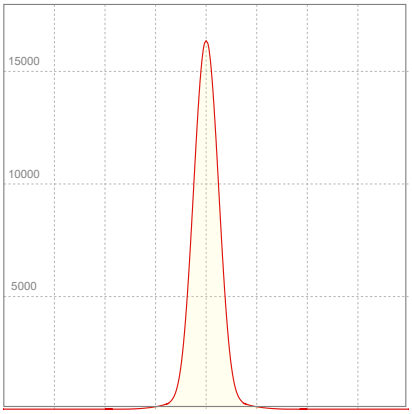
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,9°	46,5°	61,1°	99,7%	97,8%



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	16339lx	4085lx	1815lx	1021lx	654lx	290lx	163lx	73lx	41lx	26lx	18lx	10lx	7lx
Footcand.	1518fcd	379fcd	169fcd	95fcd	61fcd	27fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
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	Effeciency
226V	0,410A	84,7W	46lm/W

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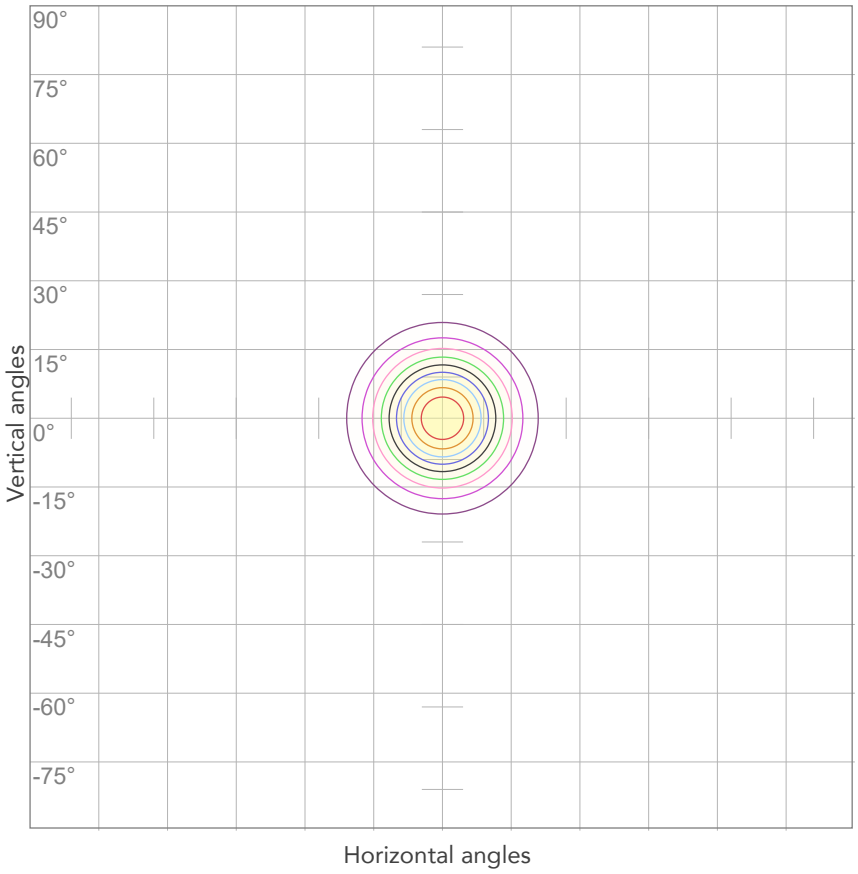
ISO DIAGRAMS

ISO CANDELA DIAGRAM



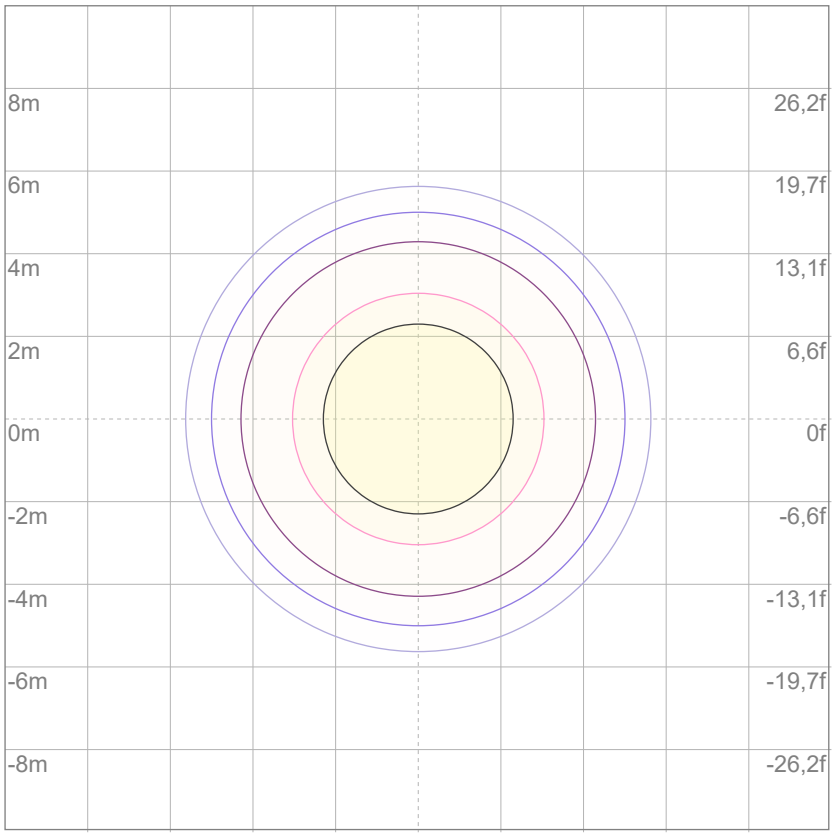
10%	1634 cd
20%	3268 cd
30%	4902 cd
40%	6536 cd
50%	8169 cd
60%	9803 cd
70%	11437 cd
80%	13071 cd

Conditions:

Number of c-planes: 2

Candela at center: 16339 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,90 lx
5%	8,17 lx
10%	16,3 lx
30%	49,0 lx
50%	81,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 163 lx

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

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Total lumen output:

3891 lm

Peak candela output:

7397 cd

Light quality:

CRI: 94,7

Color temperature:

2803 K

PRODUCT NAME:

ECLPENDANTJR FC

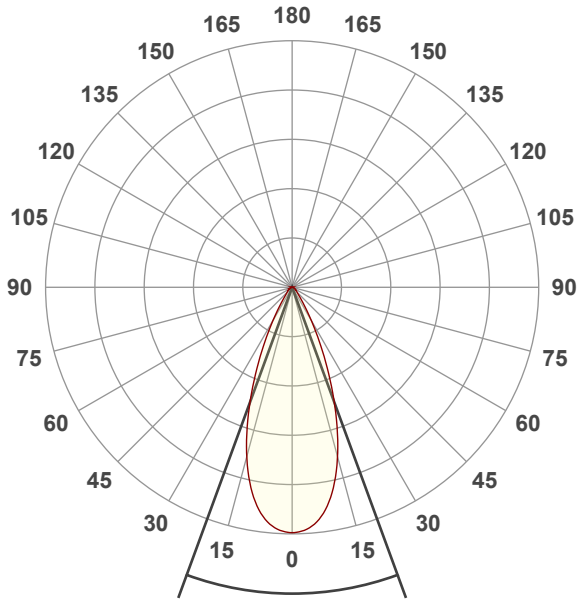
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
2800K

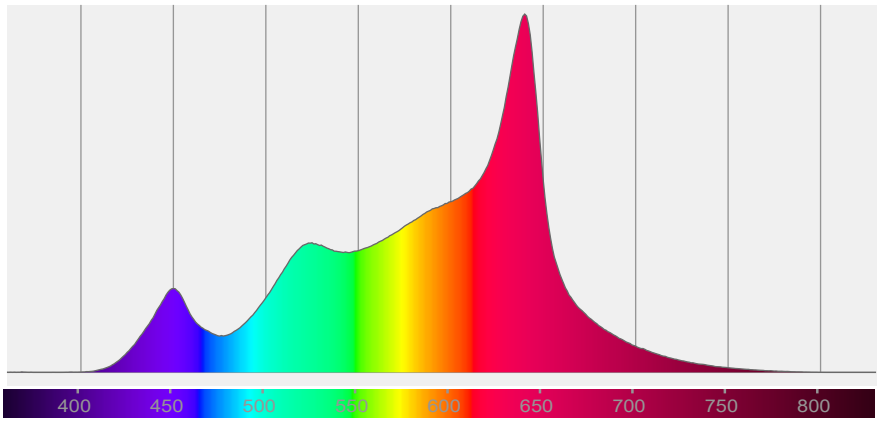
Operator:
Paolo Carvone

Date and time:
18/10/2022 17:12:05

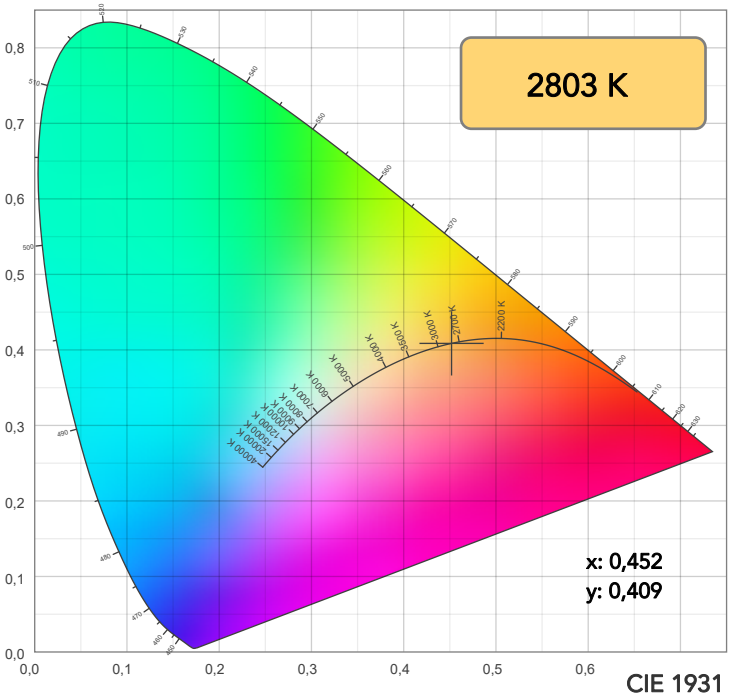


Beam angle 50%: 40,3°
Field angle 10%: 66,2°
Cut off angle 2.5%: 95,3°

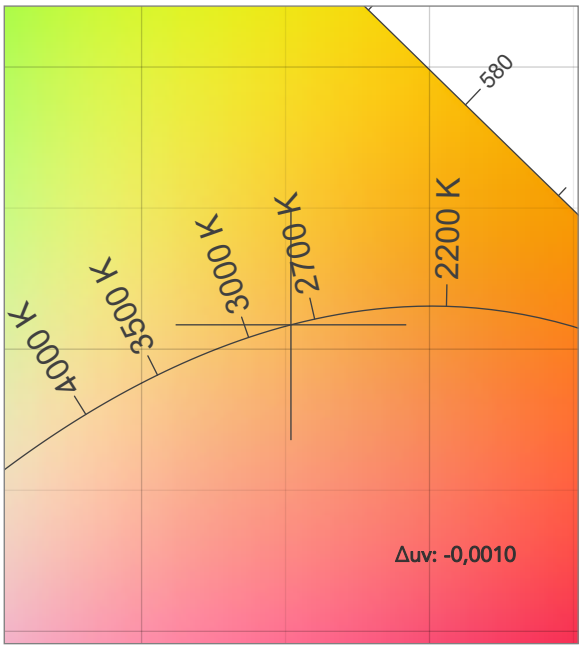
Spectra



COLOR DETAILS

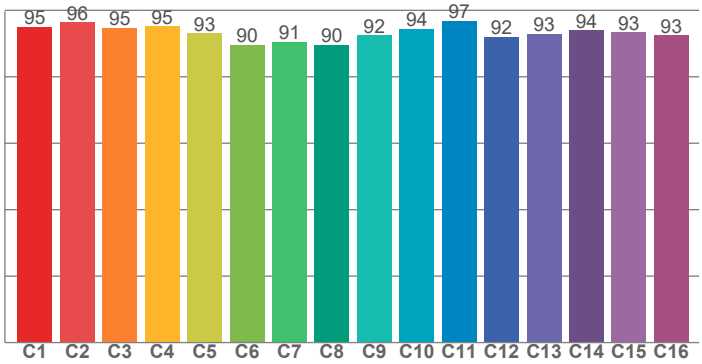


CIE 1931

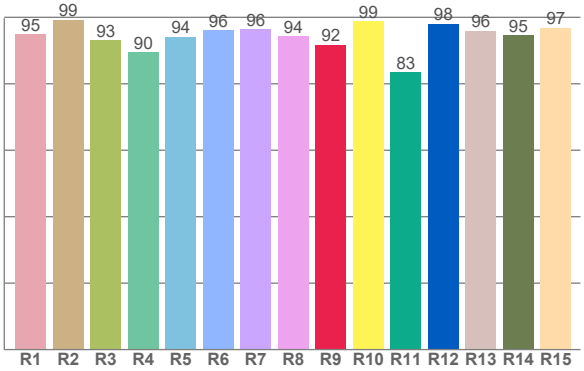


CIE 1931 ZOOM

TM30: 93,7



CRI: 94,7 (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
94,9	99,3	93,1	89,5	94,2	96,2	96,3	94,2	91,7	98,9	83,4	98,0	96,0	94,7	96,9

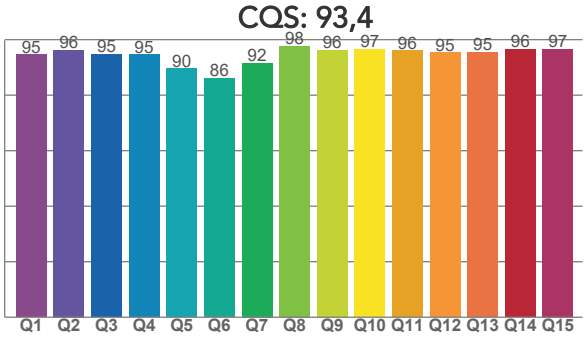
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,0	96,3	94,8	95,2	93,1	89,6	90,6	89,5	92,5	94,4	96,8	92,1	92,9	94,0	93,4	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	96,2	94,7	94,6	89,5	86,1	91,5	97,8	96,2	96,5	96,0	95,3	95,4	96,5	96,7

CQS: 93,4



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2803 K	94,7	91,7	93,7	105,3	93,4	87	0,452	0,409	-0,0010

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TM30 DETAILS

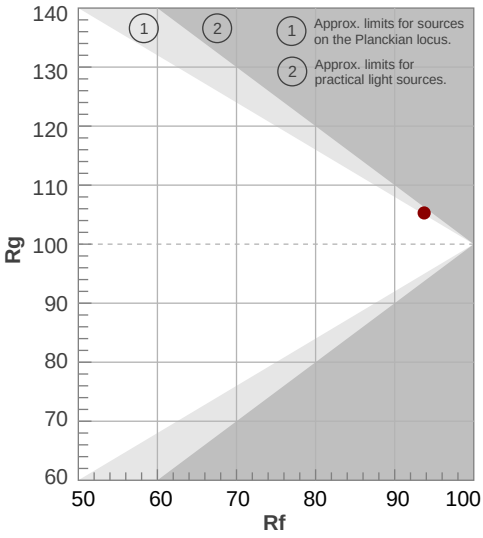
Rf 93,7

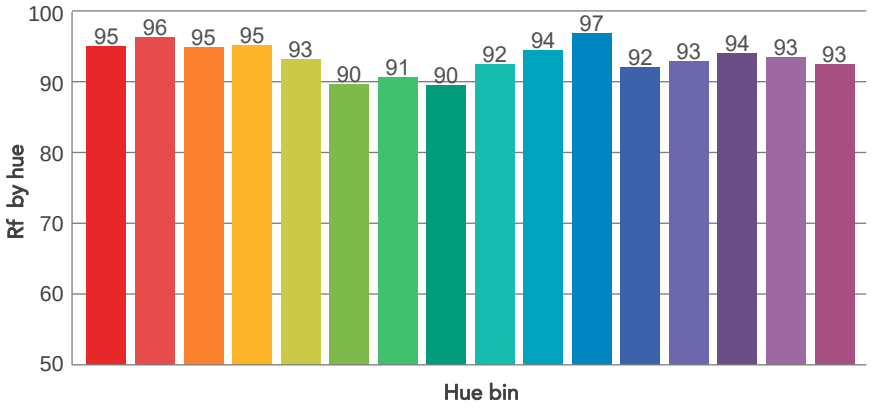
Fidelity index Rf

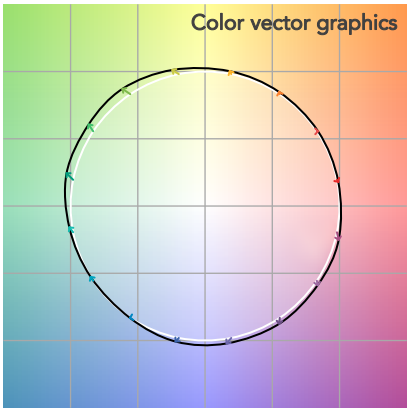
Rg 105,3

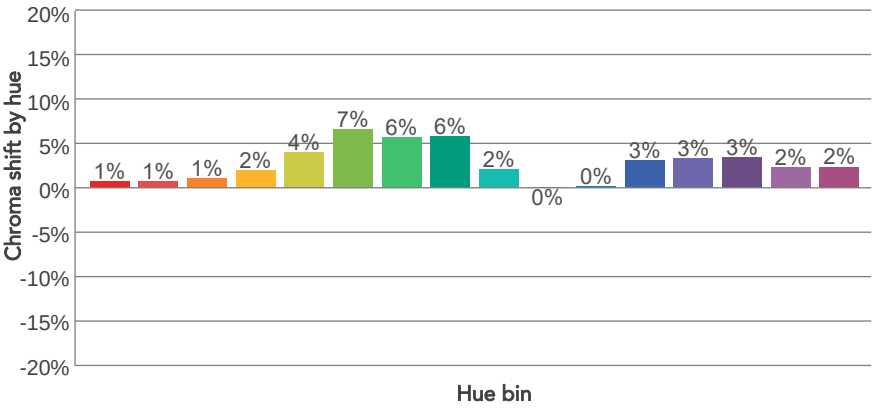
Gammut index

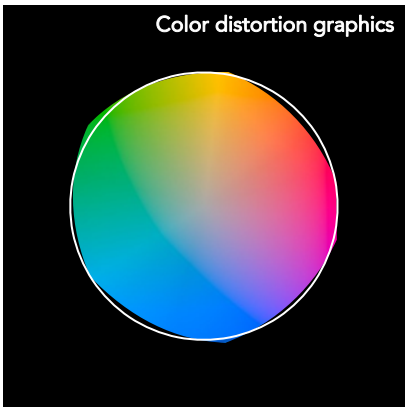
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	1%	-2%
2	96	1%	0%
3	95	1%	1%
4	95	2%	2%
5	93	4%	4%
6	90	7%	3%
7	91	6%	-2%
8	90	6%	-4%
9	92	2%	-4%
10	94	0%	-3%
11	97	0%	0%
12	92	3%	-2%
13	93	3%	-4%
14	94	3%	-3%
15	93	2%	-2%
16	93	2%	-5%

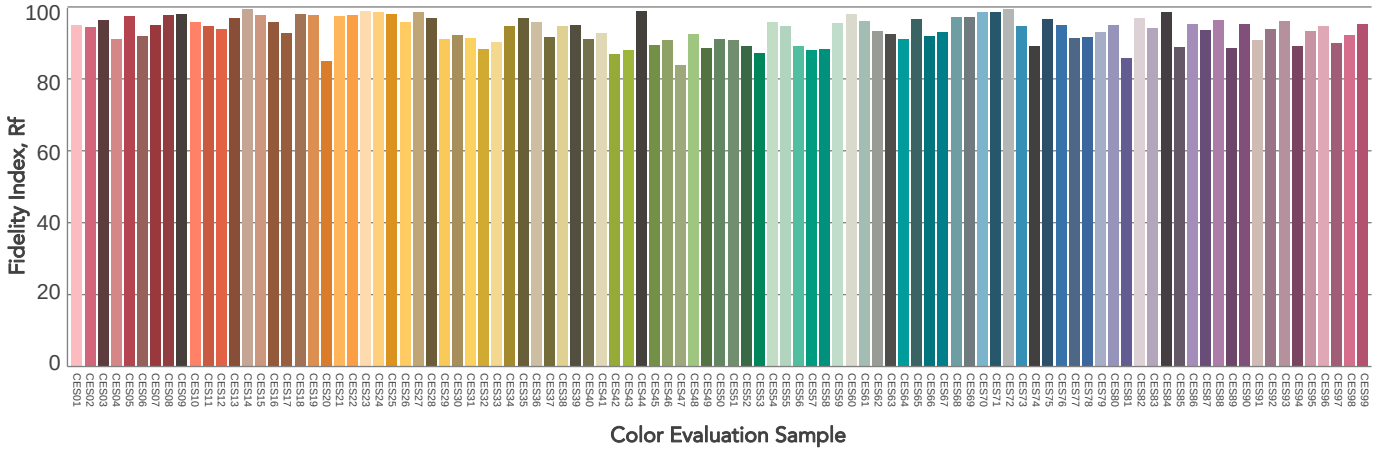












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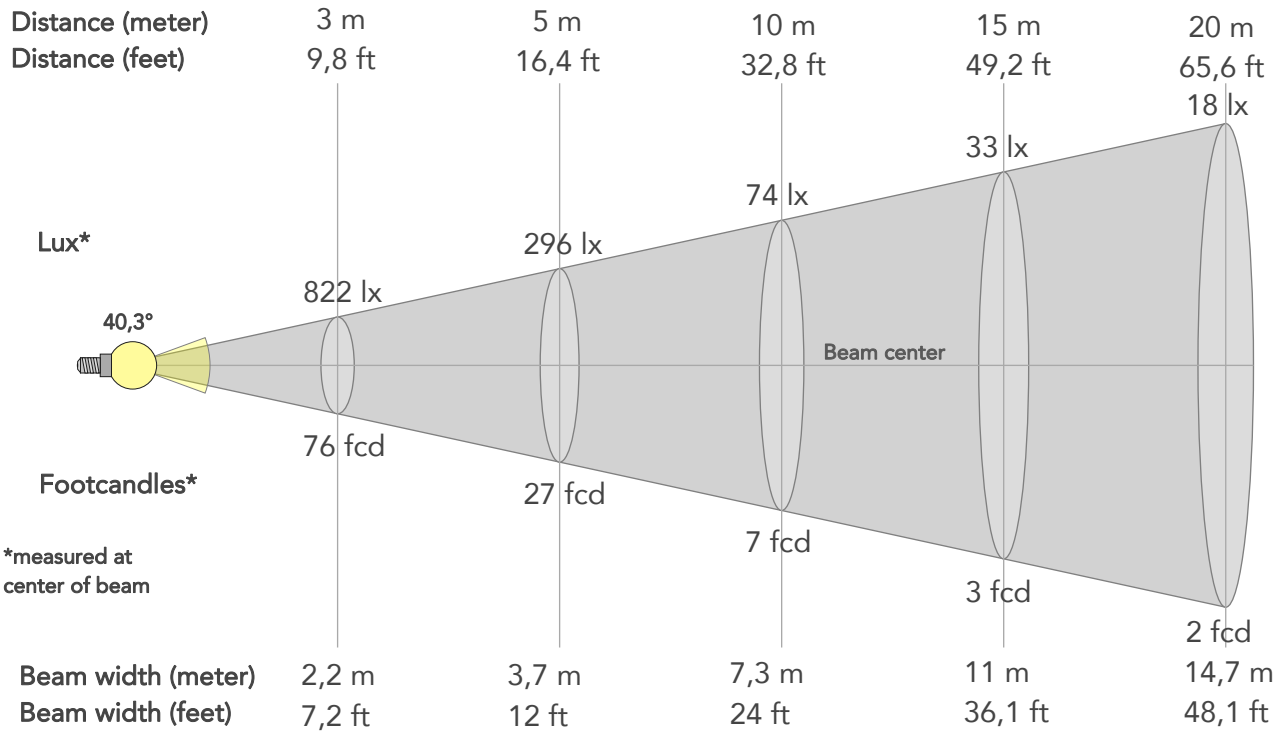
BEAM DETAILS

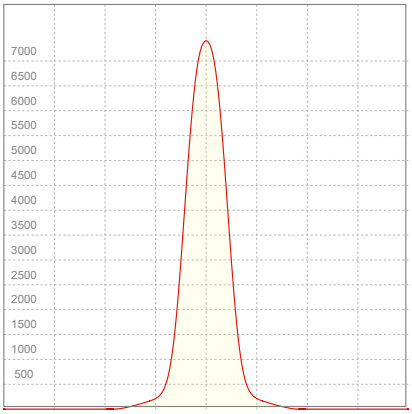
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,3°	66,2°	95,3°	97,8%	92,9%



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	7397lx	1849lx	822lx	462lx	296lx	132lx	74lx	33lx	18lx	12lx	8lx	5lx	3lx
Footcand.	687fcd	172fcd	76fcd	43fcd	27fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	2,9m	3,7m	5,5m	7,3m	11m	14,7m	18,3m	22m	29,3m	36,7m
Beam wid.	2,4ft	4,8ft	7,2ft	9,6ft	12ft	18ft	24ft	36,1ft	48,1ft	60,1ft	72,1ft	96,2ft	120,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,397A	81,3W	48lm/W

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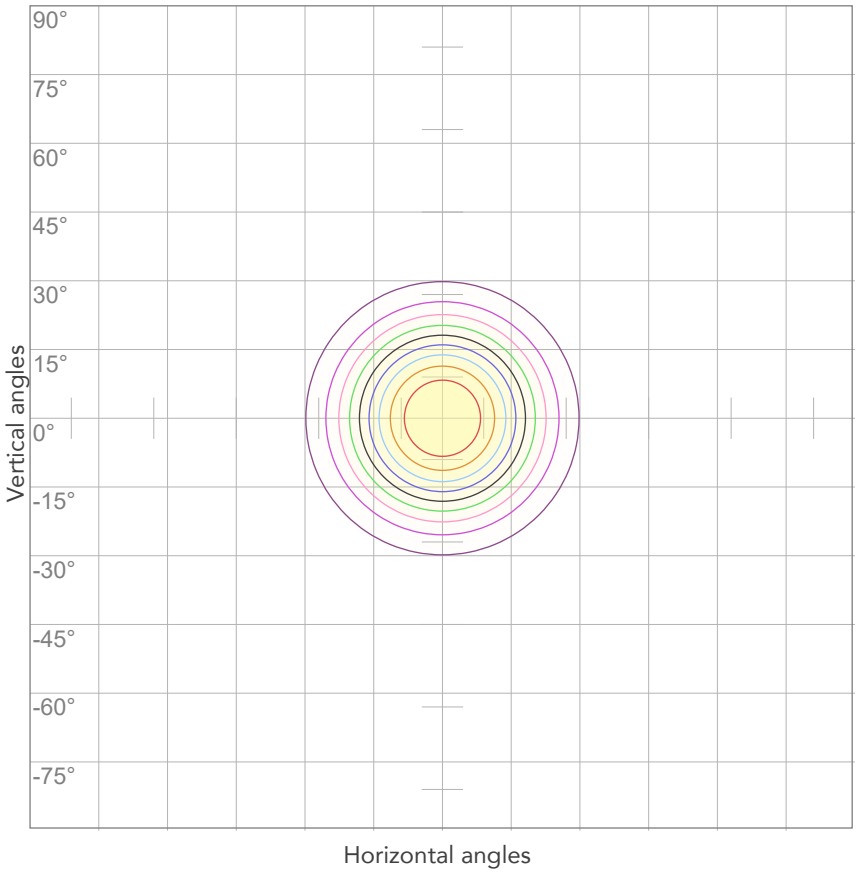
ISO DIAGRAMS

ISO CANDELA DIAGRAM



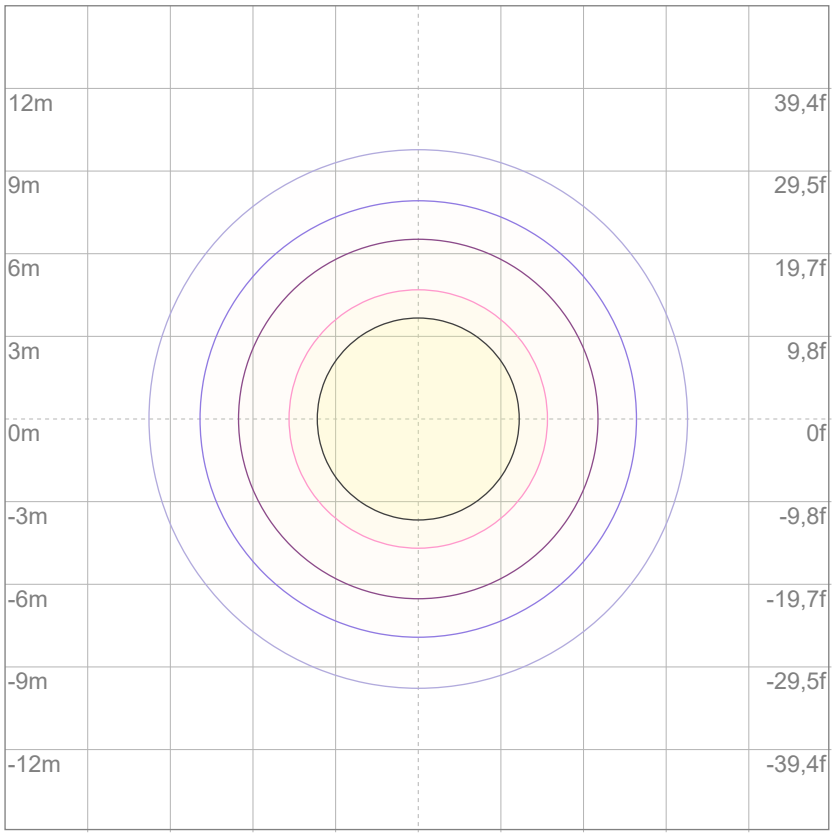
10%	740 cd
20%	1479 cd
30%	2219 cd
40%	2959 cd
50%	3699 cd
60%	4438 cd
70%	5178 cd
80%	5918 cd

Conditions:

Number of c-planes: 2

Candela at center: 7397 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,22 lx
5%	3,70 lx
10%	7,40 lx
30%	22,2 lx
50%	37,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 74,0 lx

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

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Total lumen output:

4124 lm

Peak candela output:

4930 cd

Light quality:

CRI: 93,7

Color temperature:

2803 K

PRODUCT NAME:

ECLPENDANTJR FC

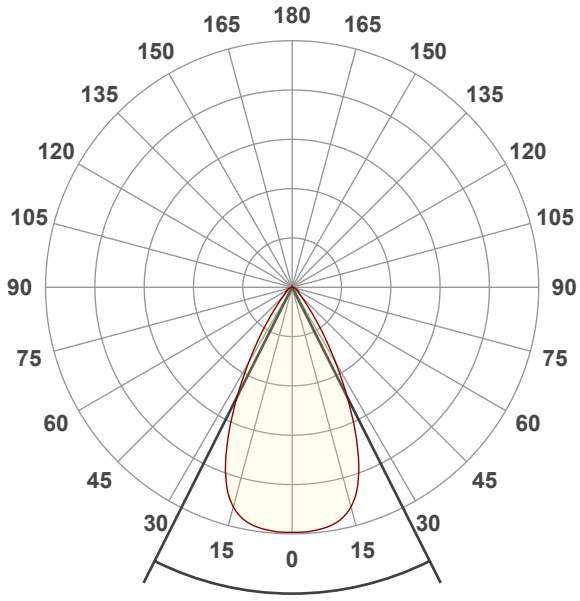
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
2800K

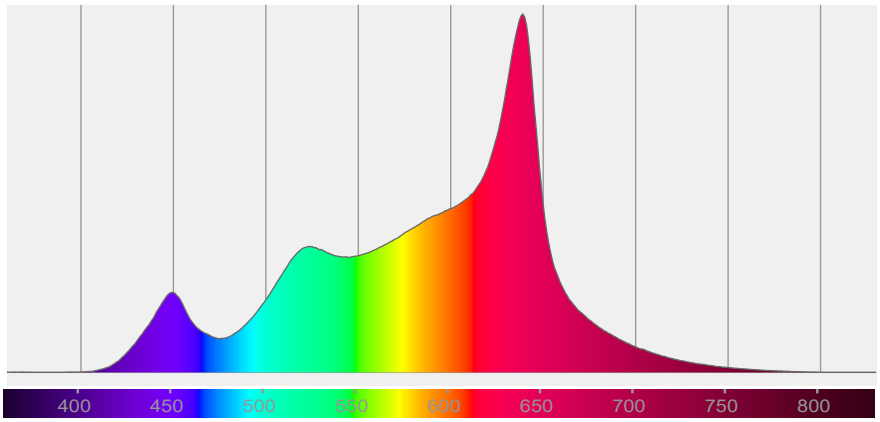
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:47:47

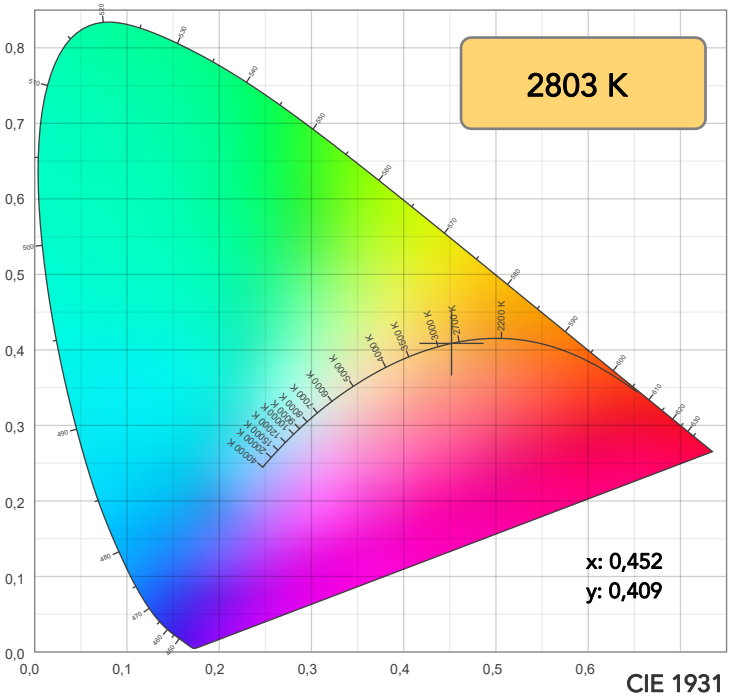


Beam angle 50%: 53,4°
Field angle 10%: 79,5°
Cut off angle 2.5%: 116,6°

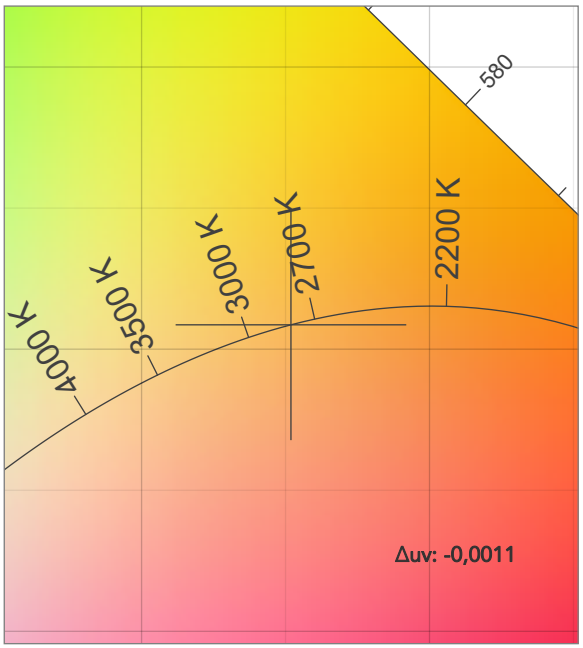
Spectra



COLOR DETAILS

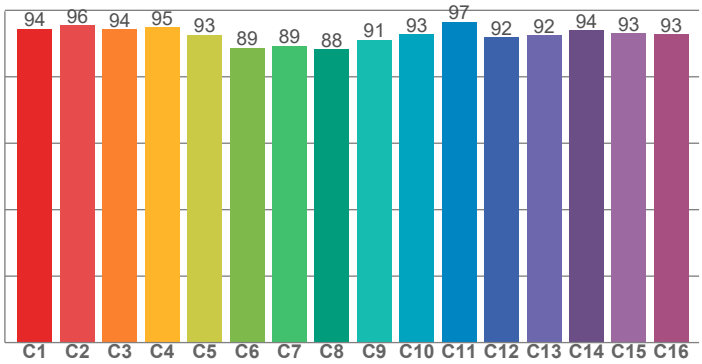


CIE 1931

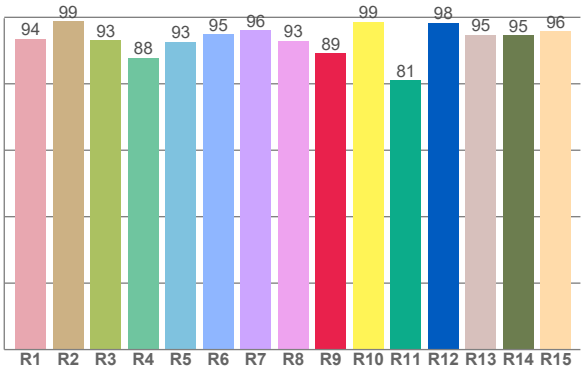


CIE 1931 ZOOM

TM30: 93,1



CRI: 93,7 (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
93,5	98,9	93,0	87,9	92,7	95,0	96,0	93,0	89,2	98,6	81,0	98,4	94,8	94,6	95,7

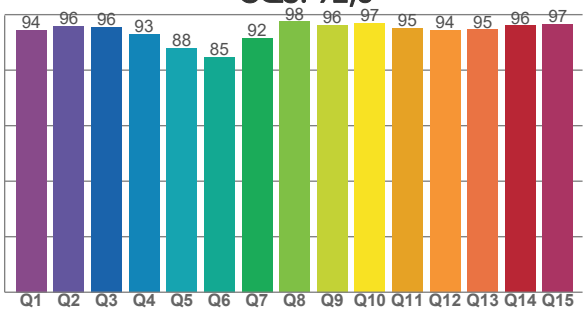
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	95,5	94,2	94,9	92,7	88,8	89,4	88,2	91,1	92,8	96,5	91,8	92,4	94,0	93,1	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,4	95,9	95,6	92,9	87,9	84,8	91,5	97,5	96,2	96,9	95,1	94,4	94,7	96,0	96,5

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2803 K	93,7	89,2	93,1	105,8	92,8	86	0,452	0,409	-0,0011

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TM30 DETAILS

PROLiGHTS

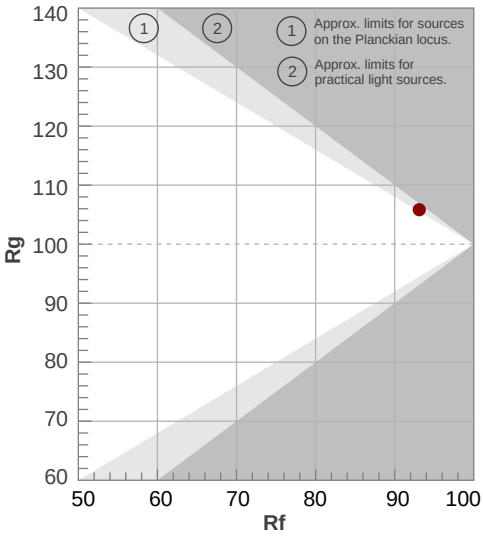
Rf 93,1

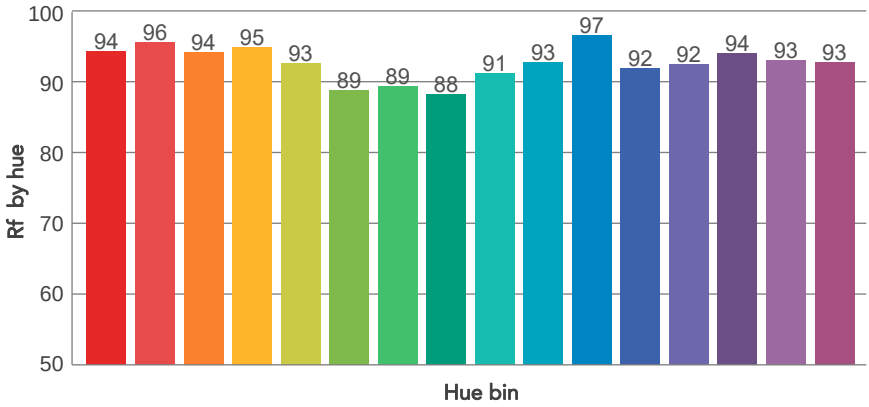
Fidelity index Rf

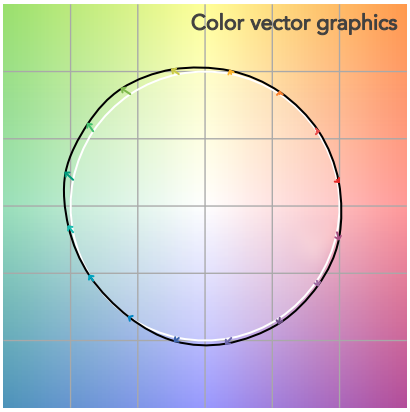
Rg 105,8

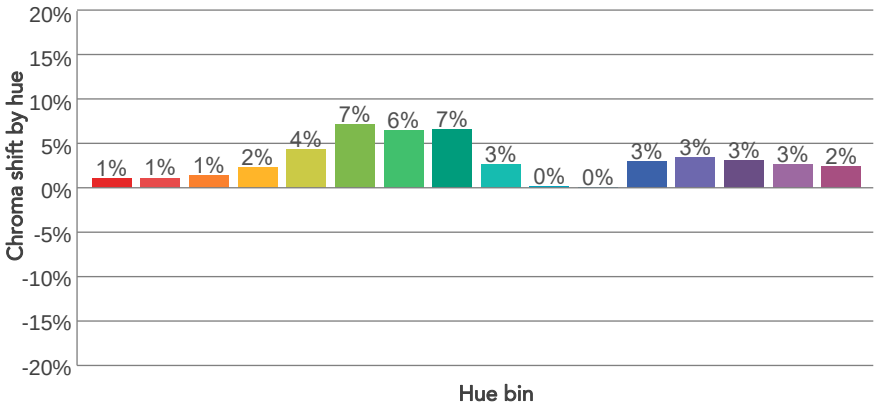
Gammut index

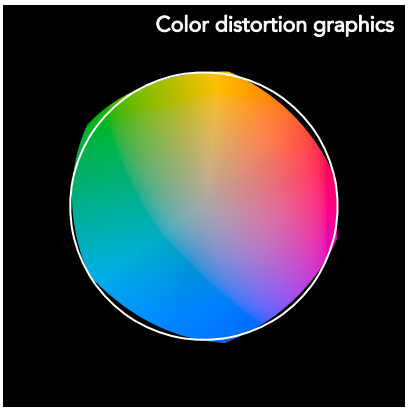
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	96	1%	-1%
3	94	1%	1%
4	95	2%	1%
5	93	4%	4%
6	89	7%	3%
7	89	6%	-2%
8	88	7%	-4%
9	91	3%	-5%
10	93	0%	-5%
11	97	0%	-1%
12	92	3%	-3%
13	92	3%	-5%
14	94	3%	-3%
15	93	3%	-2%
16	93	2%	-5%

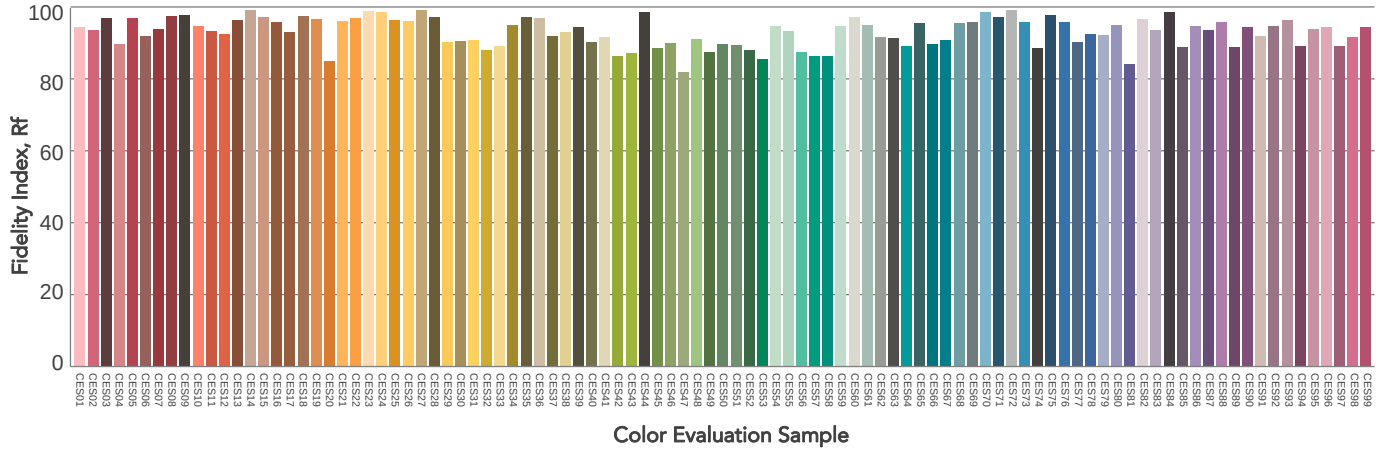












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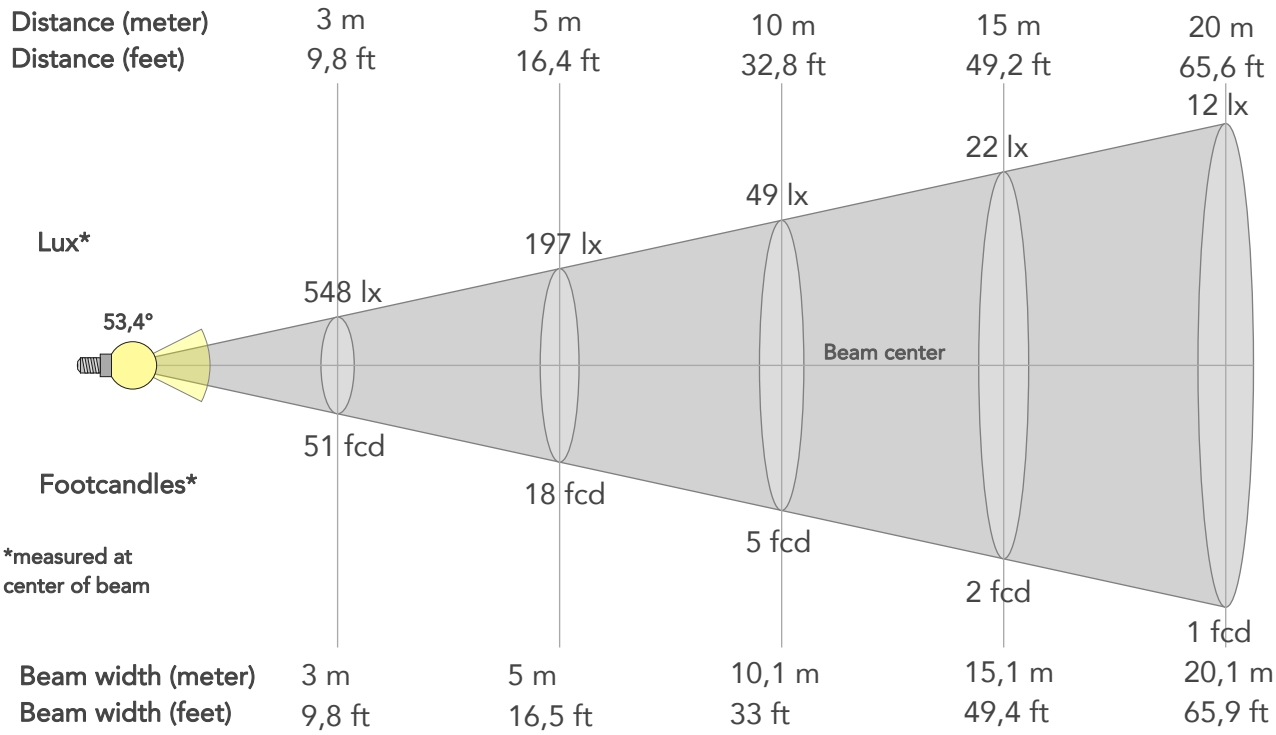
BEAM DETAILS

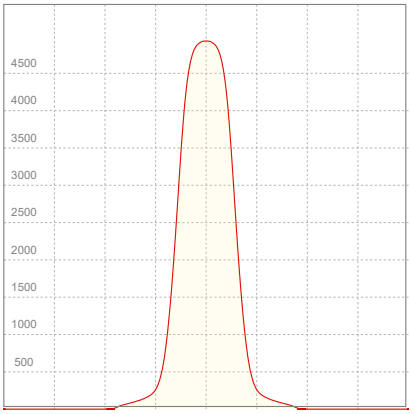
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,4°	79,5°	116,6°	96,4%	91,1%



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	4930lx	1232lx	548lx	308lx	197lx	88lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	458fcd	115fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,5m	10,1m	15,1m	20,1m	25,1m	30,2m	40,2m	50,3m
Beam wid.	3,3ft	6,6ft	9,8ft	13,2ft	16,5ft	24,7ft	33ft	49,4ft	65,9ft	82,4ft	98,9ft	131,9ft	164,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,407A	83,4W	49lm/W

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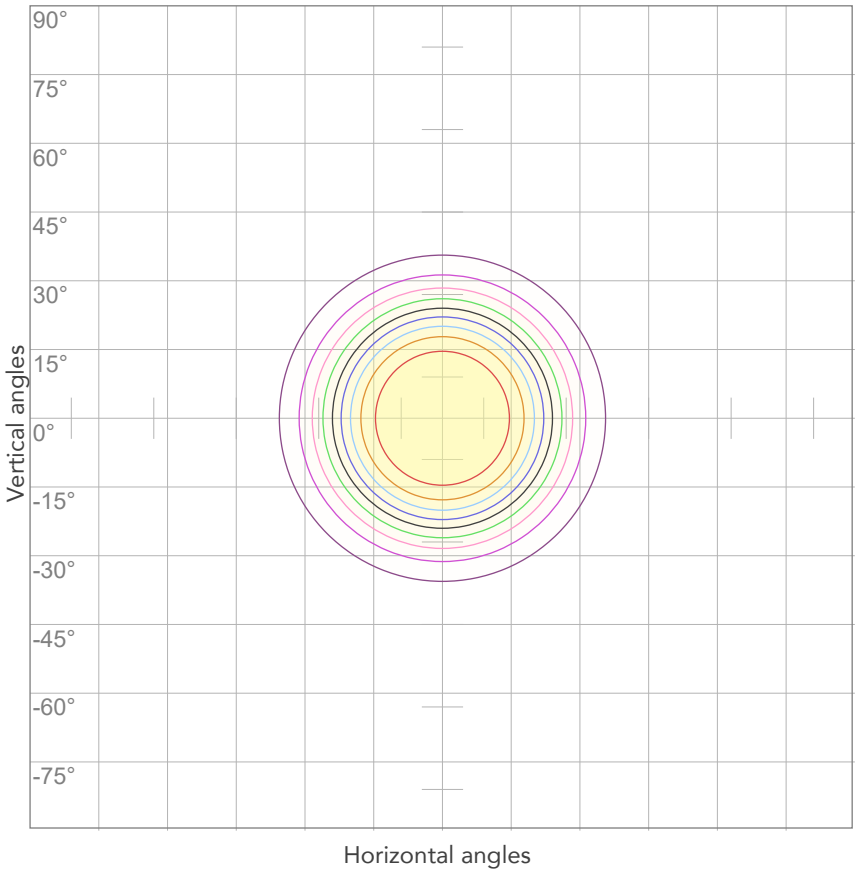
ISO DIAGRAMS

ISO CANDELA DIAGRAM



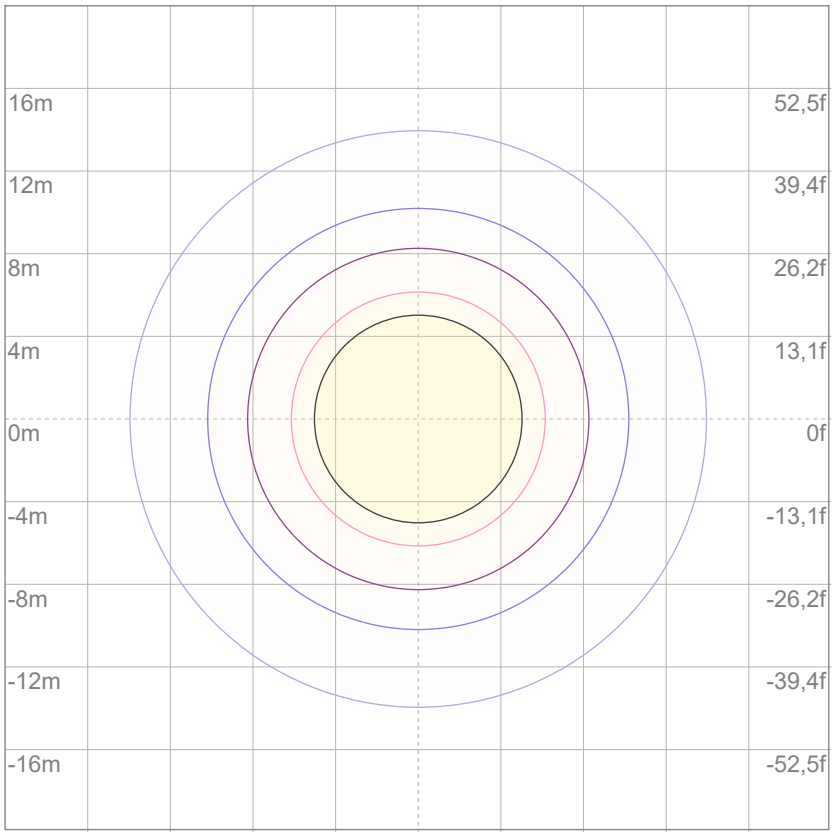
10%	493 cd
20%	986 cd
30%	1479 cd
40%	1972 cd
50%	2465 cd
60%	2958 cd
70%	3451 cd
80%	3944 cd

Conditions:

Number of c-planes: 2

Candela at center: 4930 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,48 lx
5%	2,46 lx
10%	4,93 lx
30%	14,8 lx
50%	24,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 49,3 lx

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

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Total lumen output:

3964 lm

Peak candela output:

16577 cd

Light quality:

CRI: 94,5

Color temperature:

3206 K

PRODUCT NAME:

ECLPENDANTJR FC

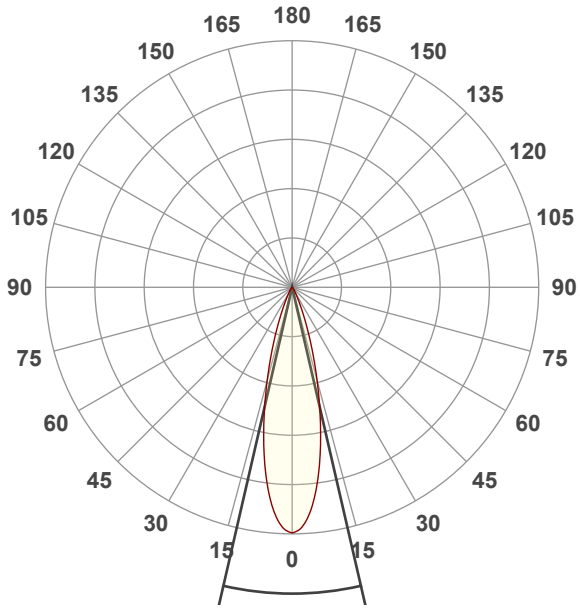
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
3200K

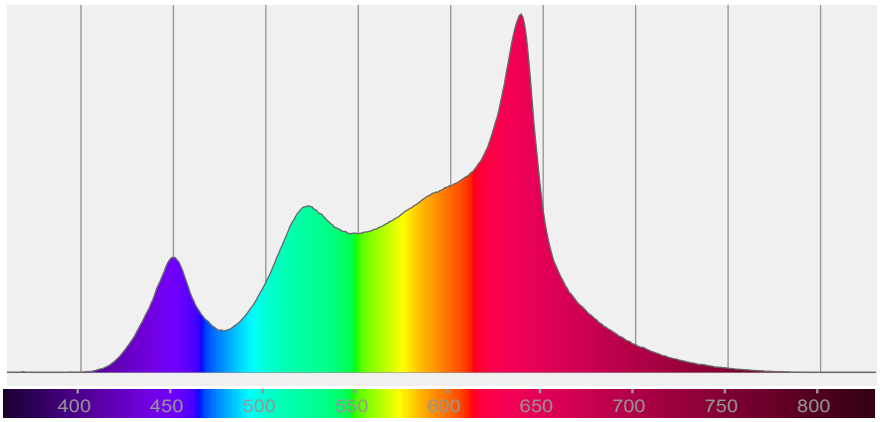
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:54:18



Beam angle 50%: 25,9°
Field angle 10%: 46,6°
Cut off angle 2.5%: 61,2°

Spectra



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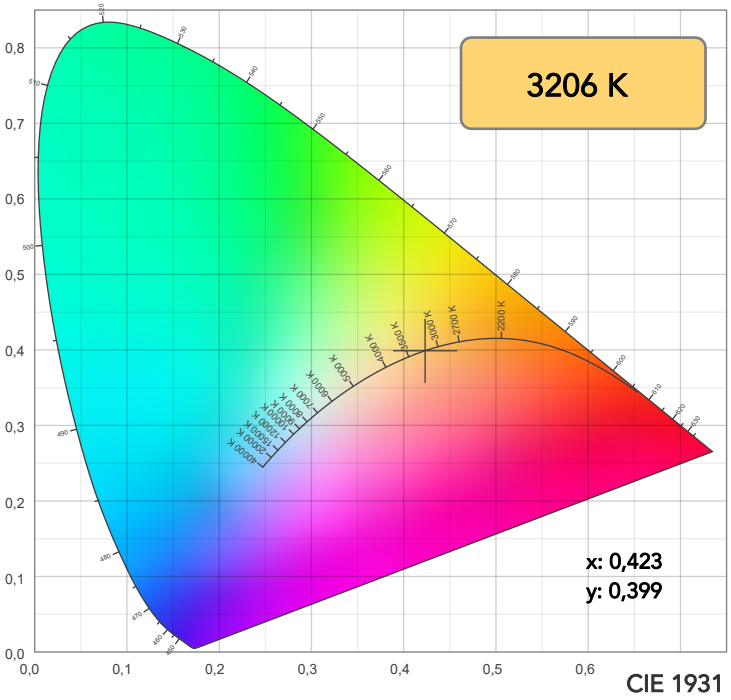
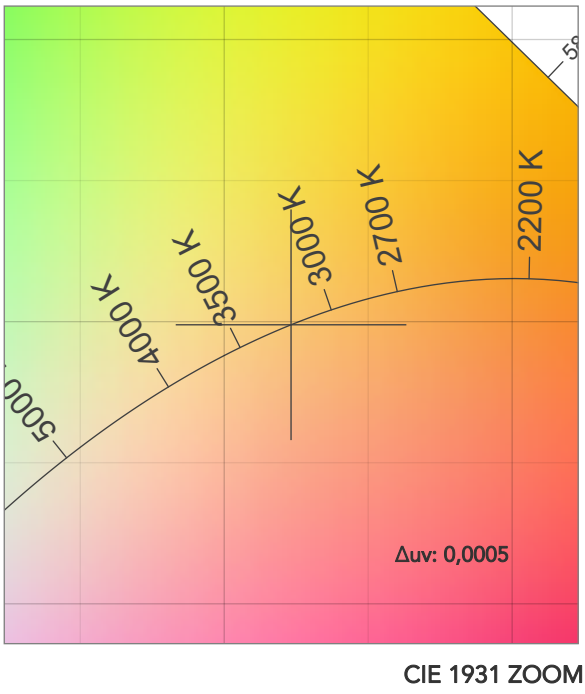
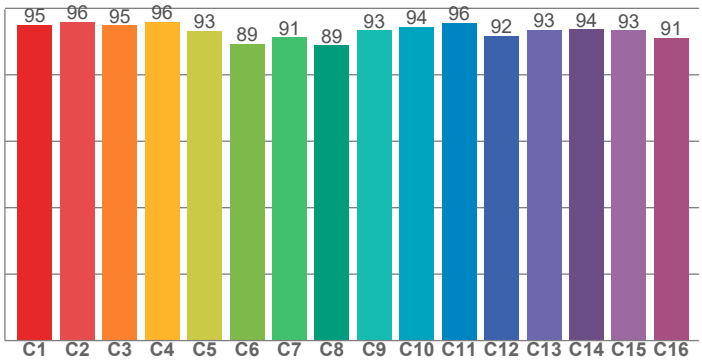
COLOR DETAILS

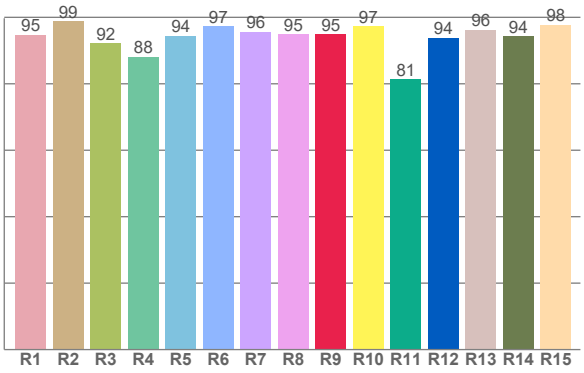




TM30: 93,6



CRI: 94,5 (R1-R8)



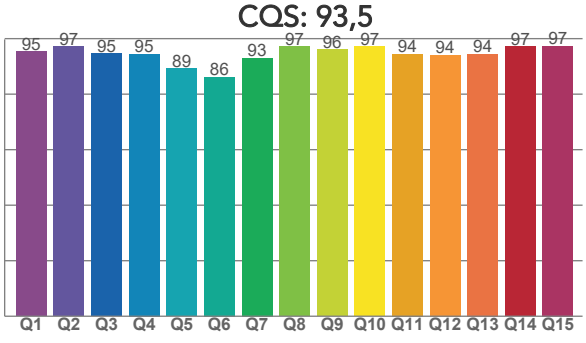
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,8	98,9	92,2	88,1	94,5	97,3	95,6	94,8	94,9	97,3	81,4	93,8	96,3	94,3	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
94,9	96,0	94,9	96,0	93,3	89,3	91,3	88,8	93,3	94,4	95,6	91,8	93,4	93,7	93,3	91,1

CQS: 93,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,4	97,1	94,6	94,5	89,2	86,2	93,0	97,1	96,0	97,2	94,4	94,0	94,4	97,2	97,4

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3206 K	94,5	94,9	93,6	105,2	93,5	89	0,423	0,399	0,0005

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TM30 DETAILS

PROLiGHTS

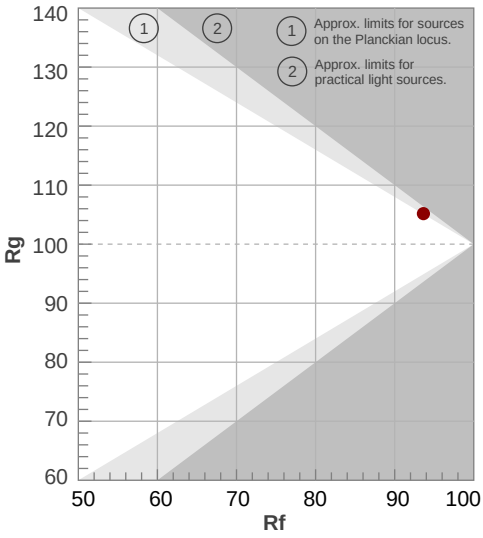
Rf 93,6

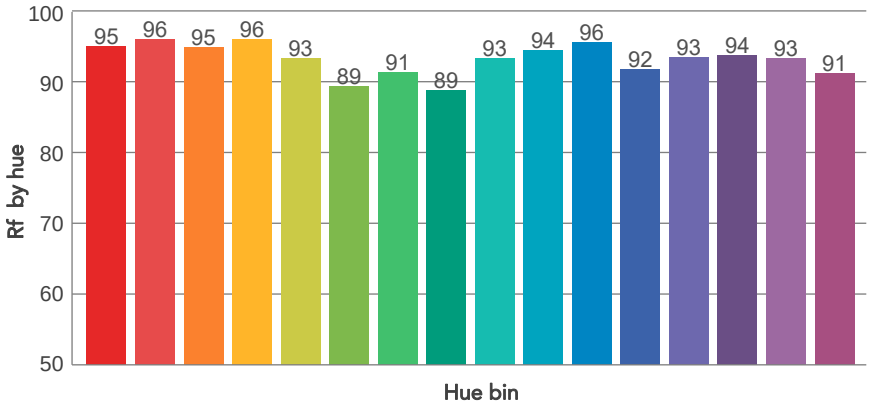
Fidelity index Rf

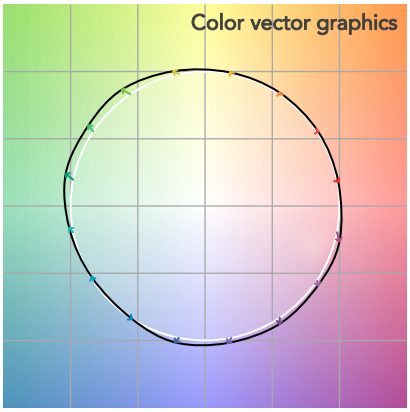
Rg 105,2

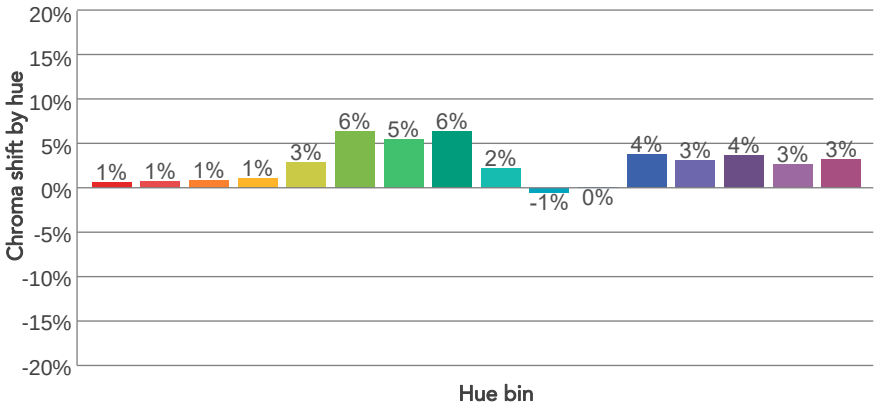
Gammut index

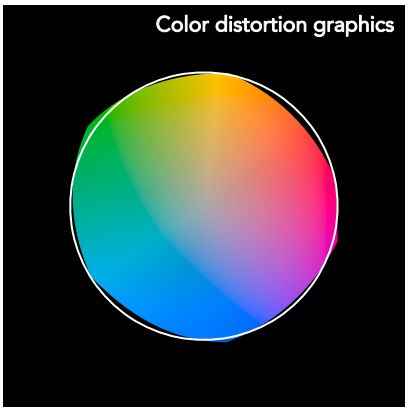
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	1%
4	96	1%	1%
5	93	3%	4%
6	89	6%	3%
7	91	5%	-2%
8	89	6%	-3%
9	93	2%	-4%
10	94	-1%	-3%
11	96	0%	1%
12	92	4%	-2%
13	93	3%	-3%
14	94	4%	-3%
15	93	3%	-2%
16	91	3%	-6%

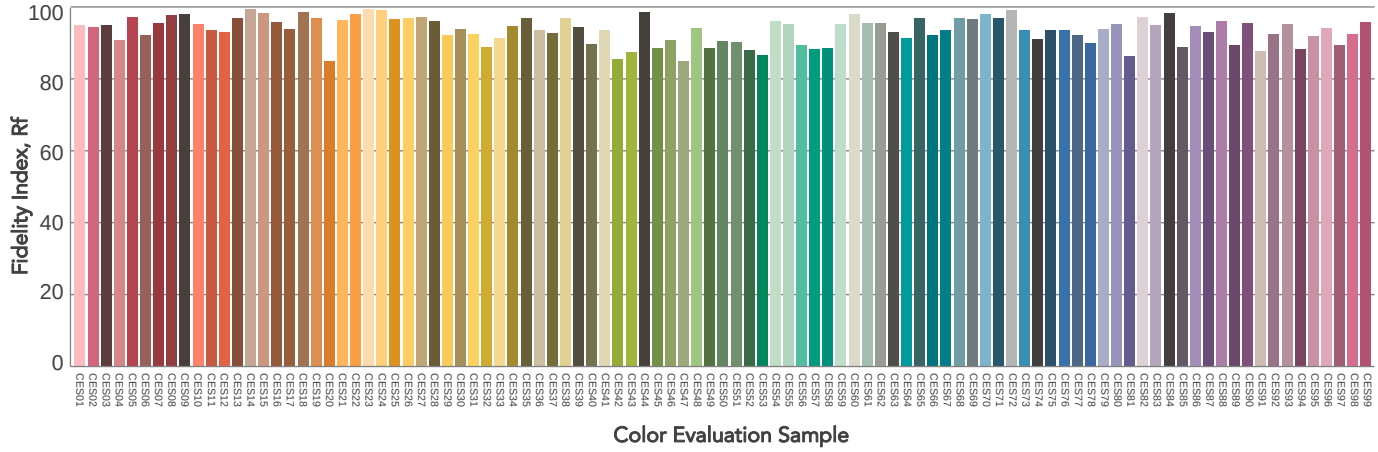












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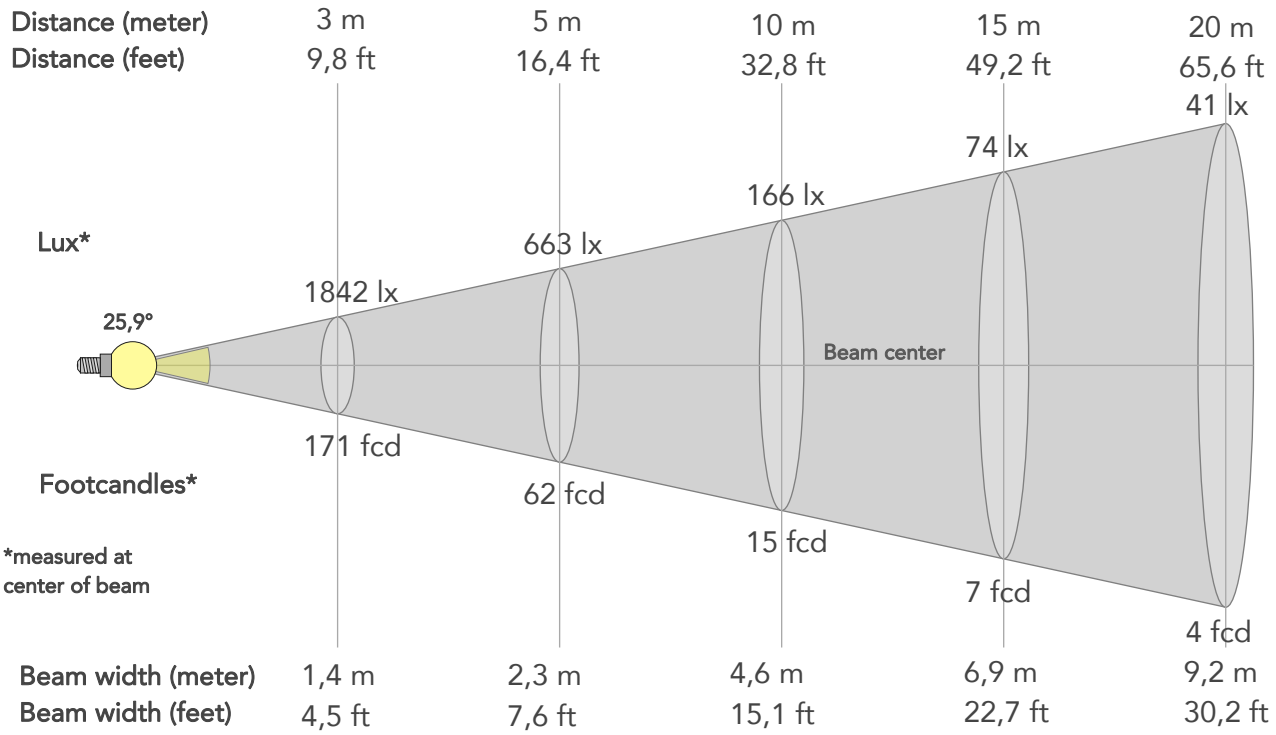
BEAM DETAILS

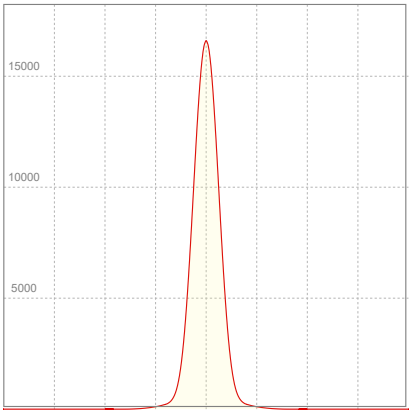
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,9°	46,6°	61,2°	99,8%	97,9%



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	16577lx	4144lx	1842lx	1036lx	663lx	295lx	166lx	74lx	41lx	27lx	18lx	10lx	7lx
Footcand.	1540fcd	385fcd	171fcd	96fcd	62fcd	27fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
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	7,6ft	11,3ft	15,1ft	22,7ft	30,2ft	37,8ft	45,3ft	60,4ft	75,5ft

LINEAR DISTRIBUTION DIAGRAM

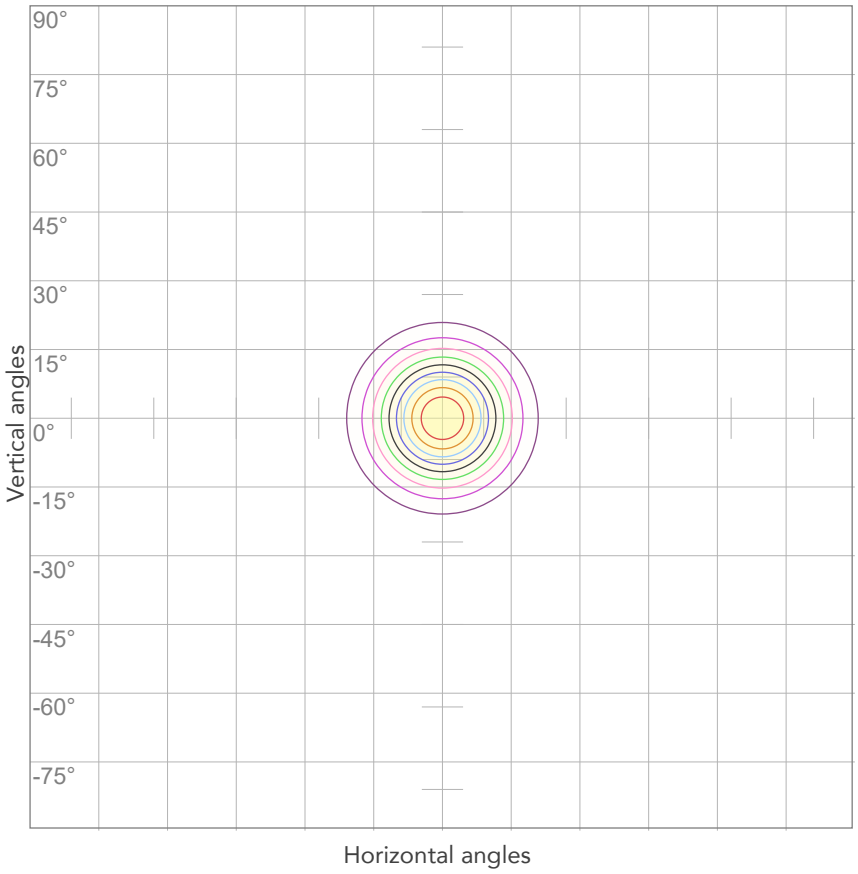


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,414A	86,2W	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



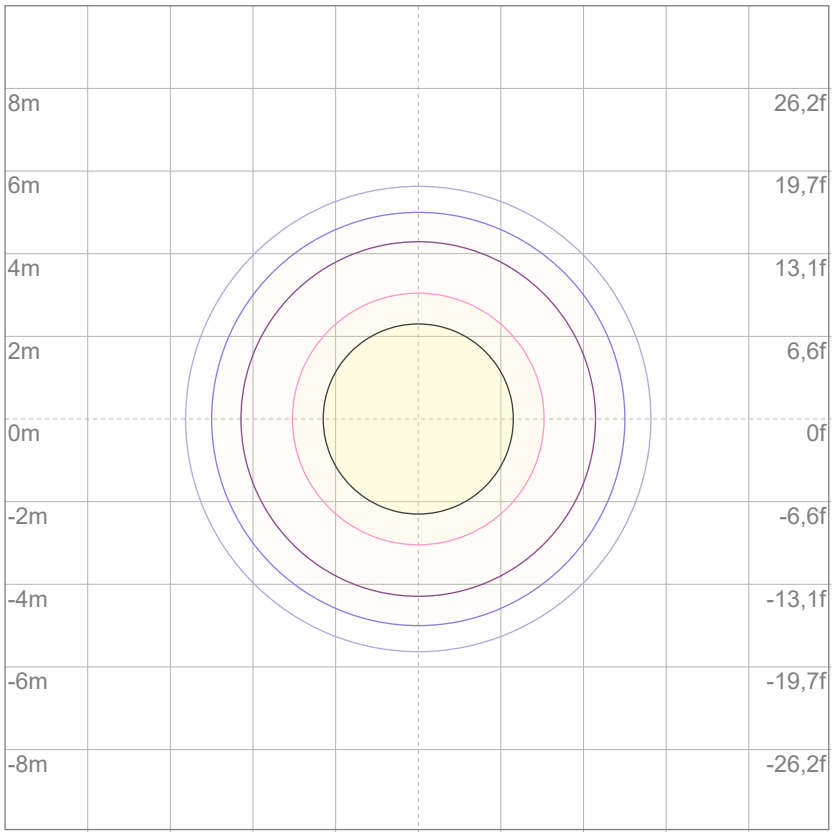
10%	1658 cd
20%	3315 cd
30%	4973 cd
40%	6631 cd
50%	8289 cd
60%	9946 cd
70%	11604 cd
80%	13262 cd

Conditions:

Number of c-planes: 2

Candela at center: 16577 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,97 lx
5%	8,29 lx
10%	16,6 lx
30%	49,7 lx
50%	82,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 166 lx

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

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Total lumen output:

3837 lm

Peak candela output:

7737 cd

Light quality:

CRI: 93,2

Color temperature:

3206 K

PRODUCT NAME:

ECLPENDANTJR FC

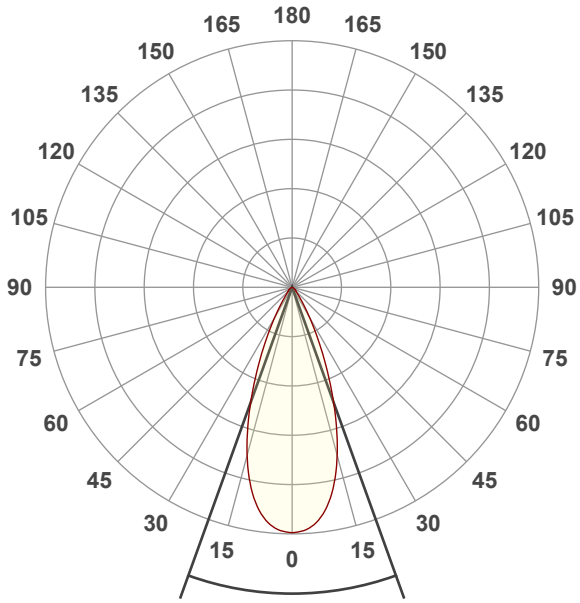
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
3200K

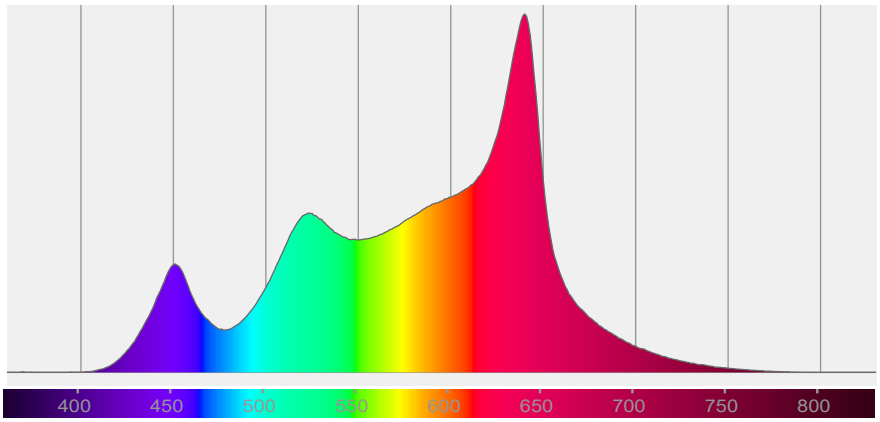
Operator:
Paolo Carvone

Date and time:
18/10/2022 17:10:28

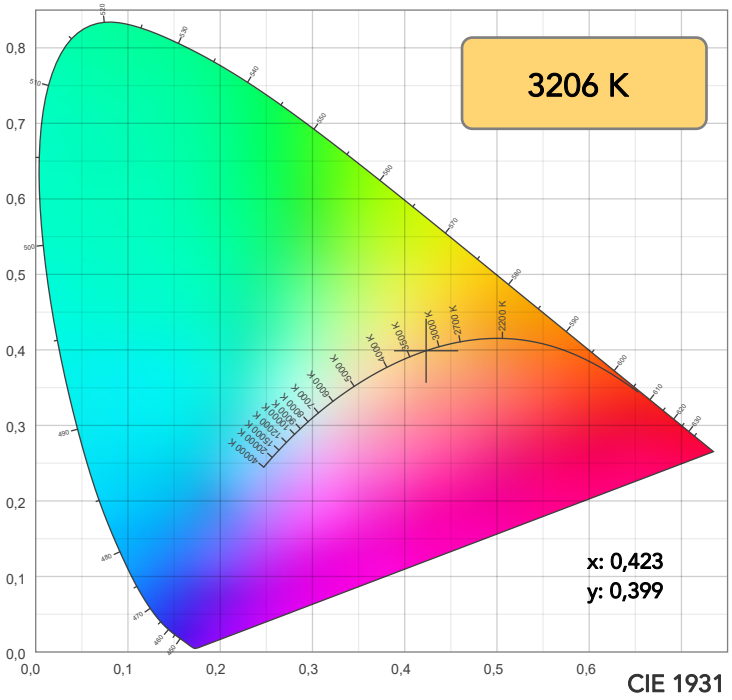


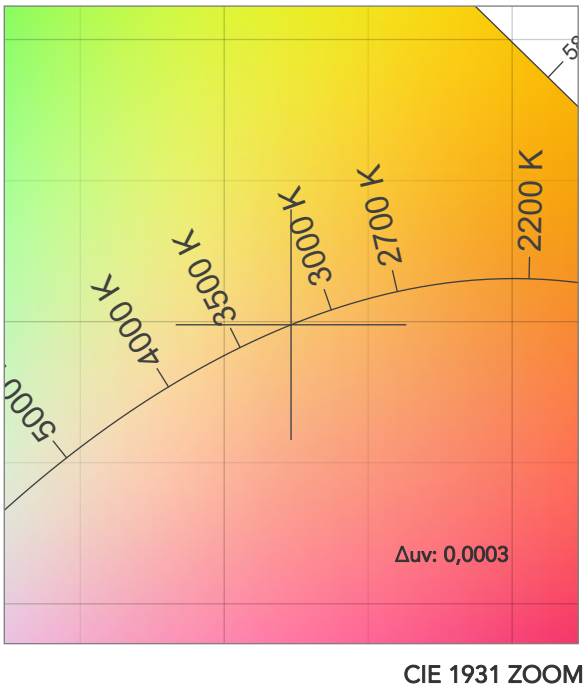
Beam angle 50%: 39,6°
Field angle 10%: 64,8°
Cut off angle 2.5%: 86,5°

Spectra

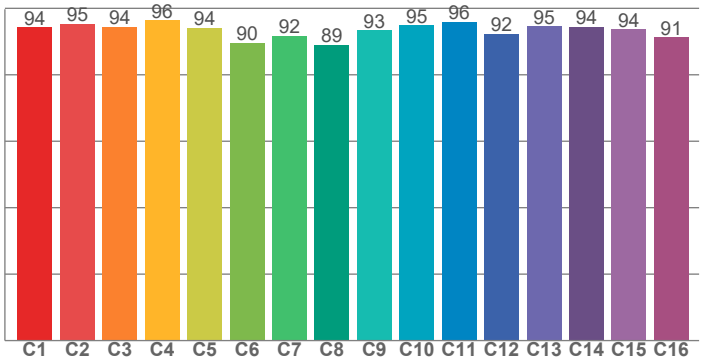


COLOR DETAILS

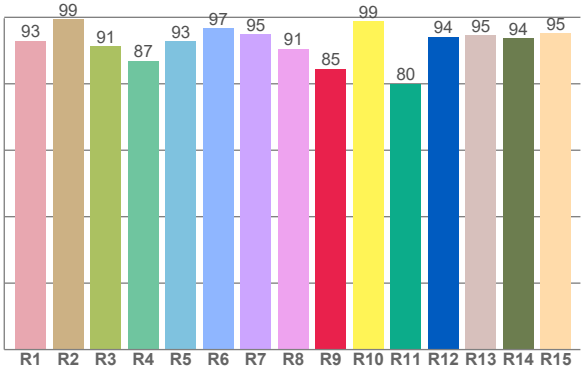




TM30: 93,8



CRI: 93,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,9	99,5	91,3	86,9	92,9	96,7	94,8	90,6	84,5	98,9	80,0	94,1	94,6	93,7	95,1

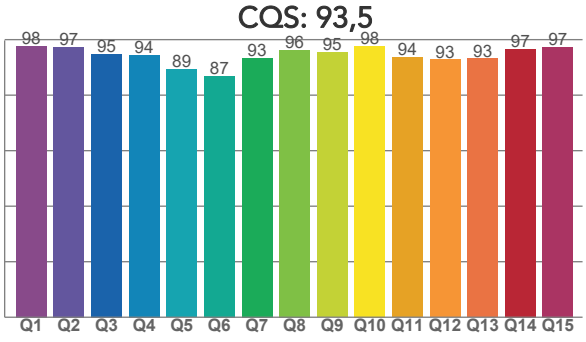
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,3	95,3	94,4	96,4	94,0	89,7	91,8	89,0	93,4	94,9	96,0	92,4	94,5	94,4	93,6	91,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,7	97,3	94,9	94,4	89,3	86,8	93,5	96,3	95,4	97,7	93,6	92,8	93,1	96,6	97,4

CQS: 93,5



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3206 K	93,2	84,5	93,8	105,5	93,5	91	0,423	0,399	0,0003

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TM30 DETAILS

PROLiGHTS

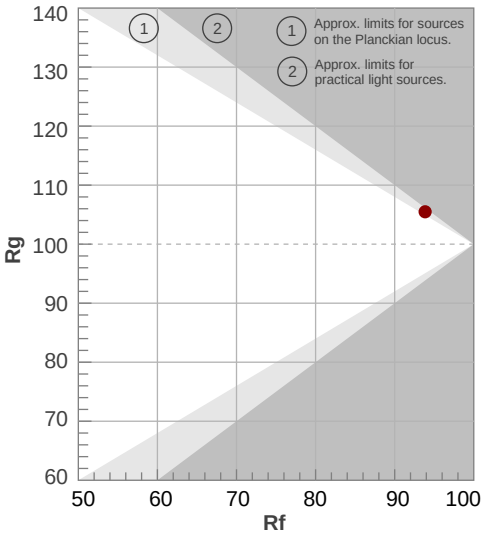
Rf 93,8

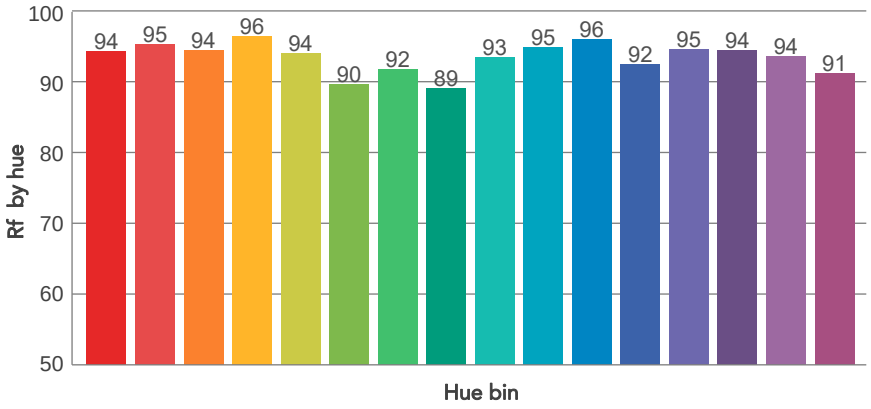
Fidelity index Rf

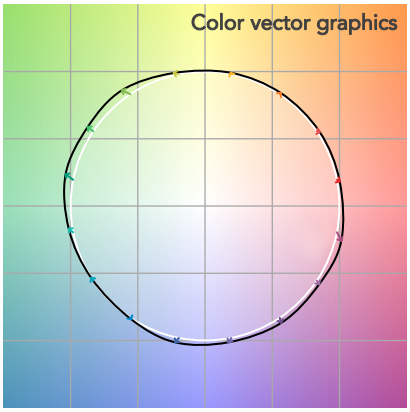
Rg 105,5

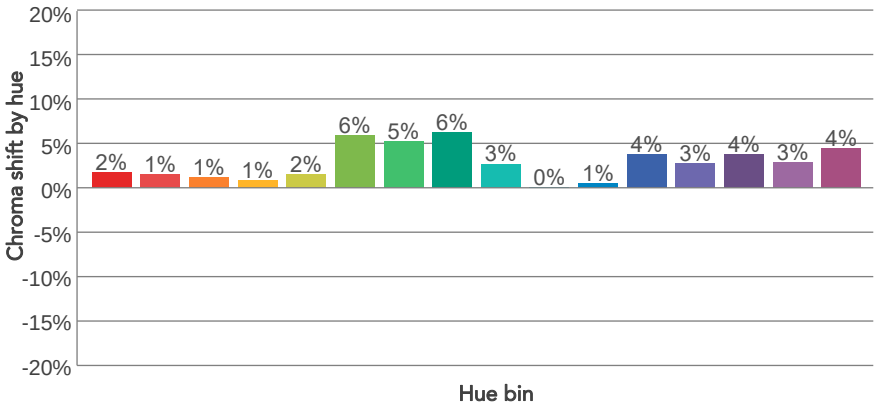
Gammut index

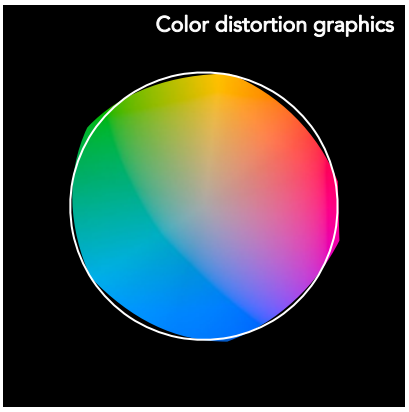
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	2%	-2%
2	95	1%	-2%
3	94	1%	0%
4	96	1%	1%
5	94	2%	4%
6	90	6%	4%
7	92	5%	0%
8	89	6%	-3%
9	93	3%	-3%
10	95	0%	-3%
11	96	1%	1%
12	92	4%	-2%
13	95	3%	-3%
14	94	4%	-1%
15	94	3%	-1%
16	91	4%	-6%

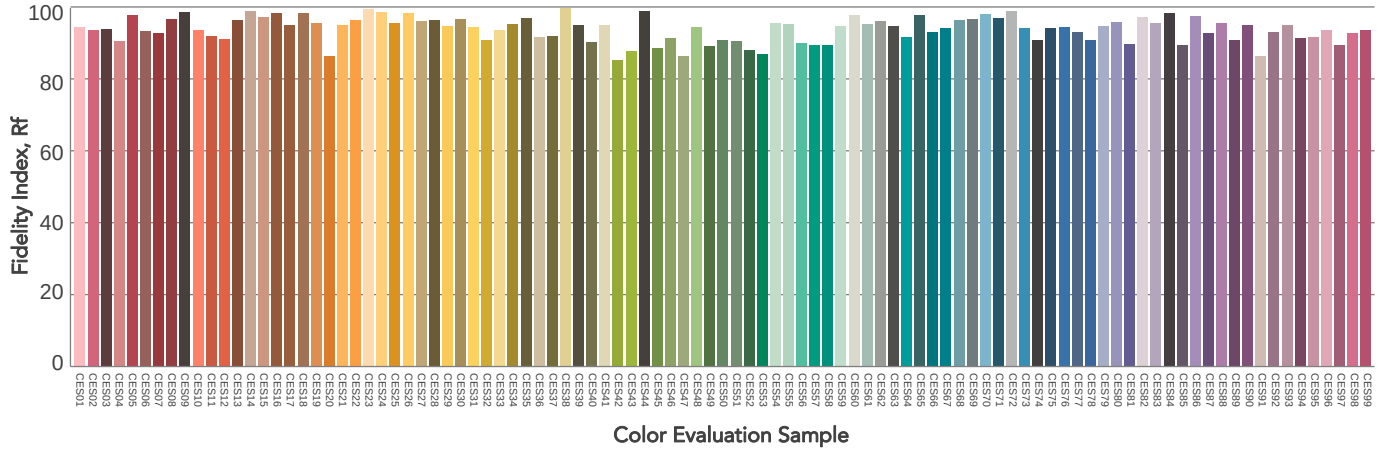












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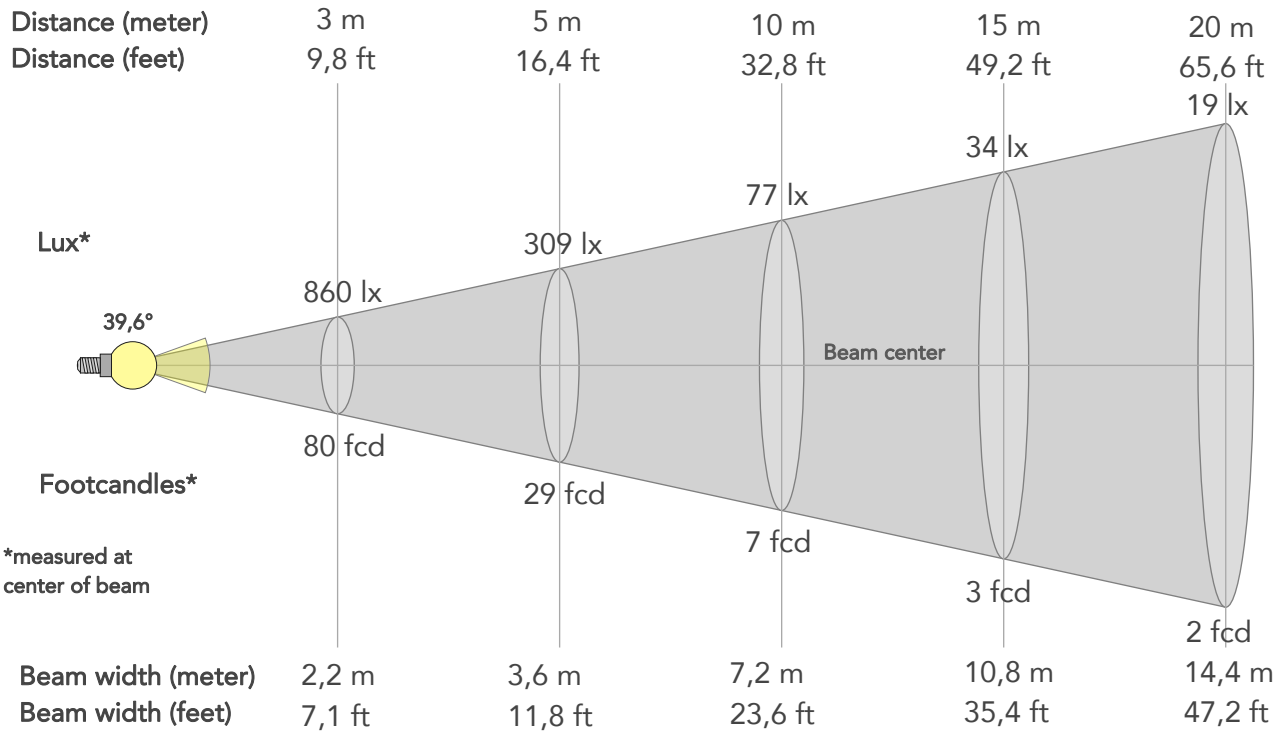
BEAM DETAILS

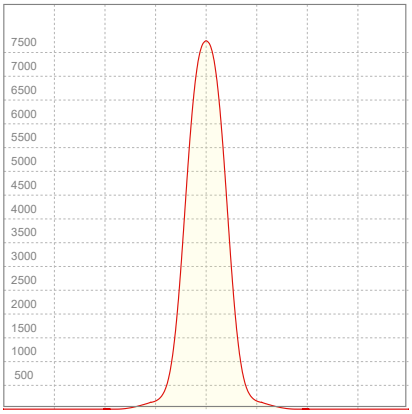
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,6°	64,8°	86,5°	98,8%	94,8%



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	7737lx	1934lx	860lx	484lx	309lx	138lx	77lx	34lx	19lx	12lx	9lx	5lx	3lx
Footcand.	719fcd	180fcd	80fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,2m	2,9m	3,6m	5,4m	7,2m	10,8m	14,4m	18m	21,6m	28,8m	36m
Beam wid.	2,4ft	4,8ft	7,1ft	9,4ft	11,8ft	17,7ft	23,6ft	35,4ft	47,2ft	59,1ft	70,9ft	94,5ft	118,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,416A	85,5W	45lm/W

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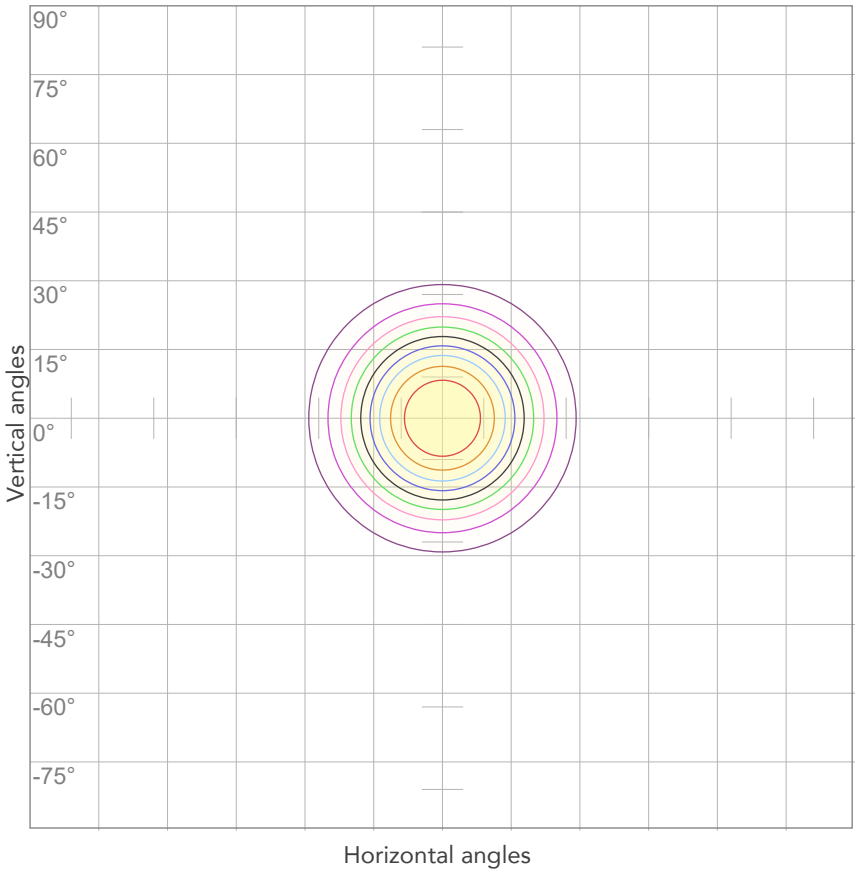
ISO DIAGRAMS

ISO CANDELA DIAGRAM



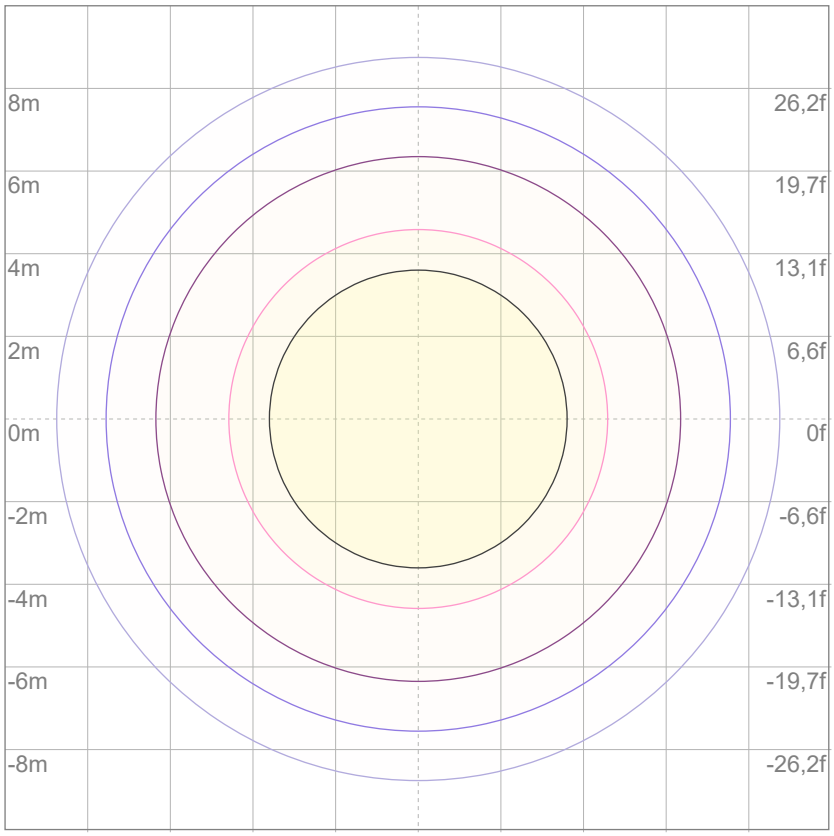
10%	774 cd
20%	1547 cd
30%	2321 cd
40%	3095 cd
50%	3868 cd
60%	4642 cd
70%	5416 cd
80%	6189 cd

Conditions:

Number of c-planes: 2

Candela at center: 7737 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,32 lx
5%	3,87 lx
10%	7,74 lx
30%	23,2 lx
50%	38,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 77,4 lx

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

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Total lumen output:

4282 lm

Peak candela output:

5081 cd

Light quality:

CRI: 94,0

Color temperature:

3206 K

PRODUCT NAME:

ECLPENDANTJR FC

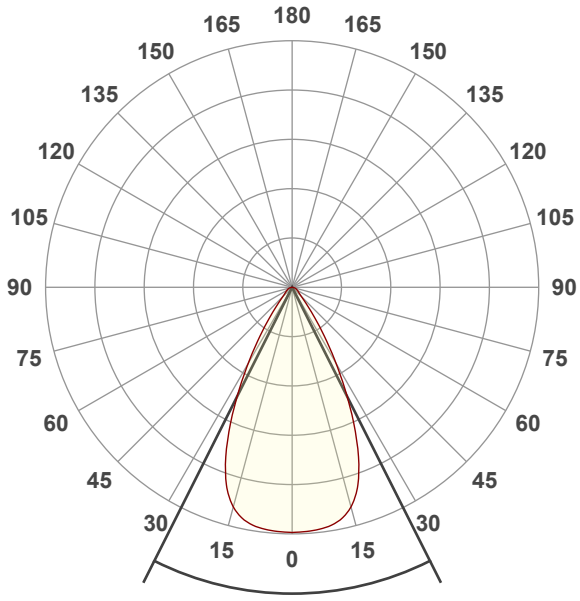
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
3200K

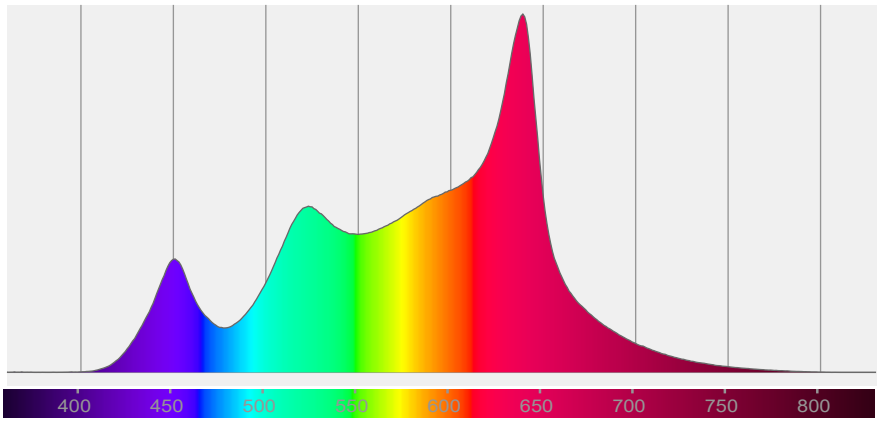
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:49:49

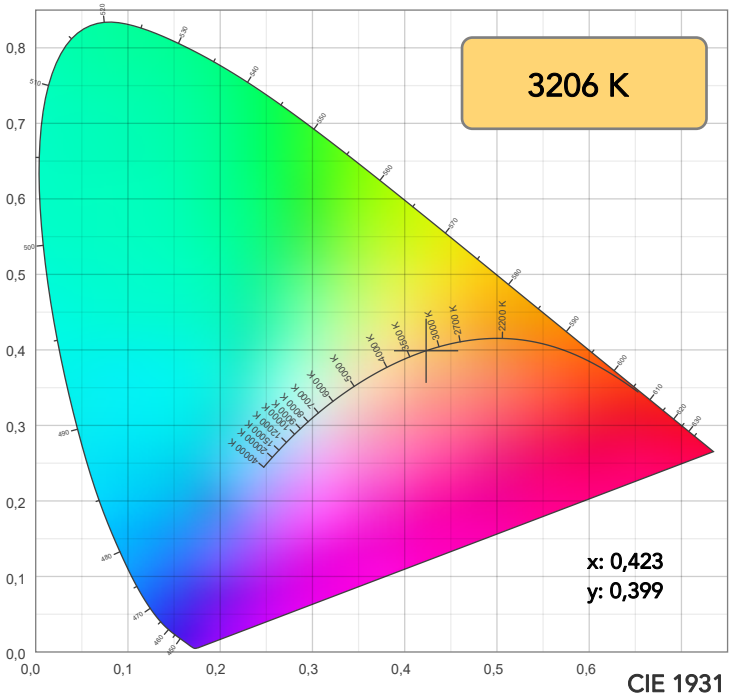


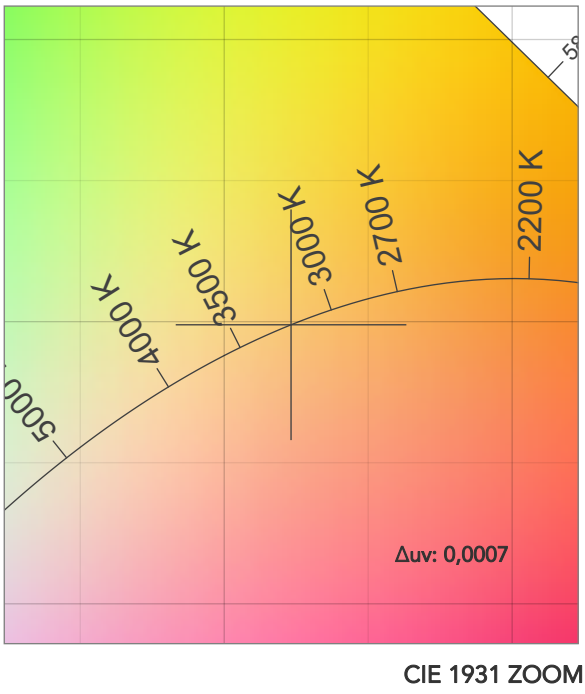
Beam angle 50%: 53,5°
Field angle 10%: 79,5°
Cut off angle 2.5%: 118,5°

Spectra

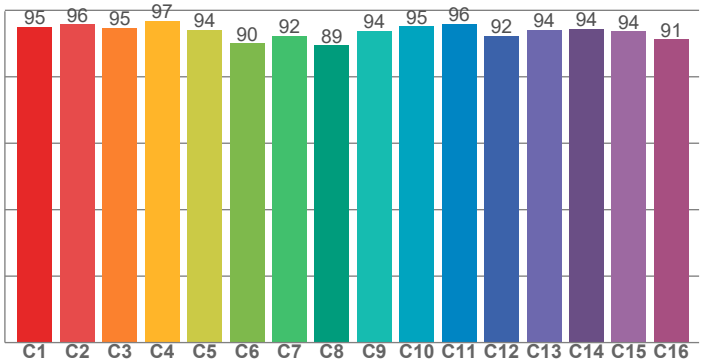


COLOR DETAILS

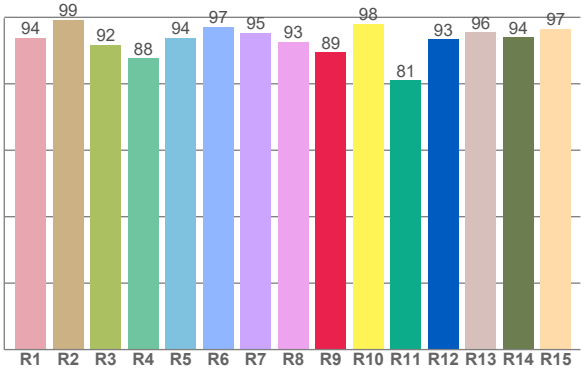




TM30: 94,1



CRI: 94,0 (R1-R8)



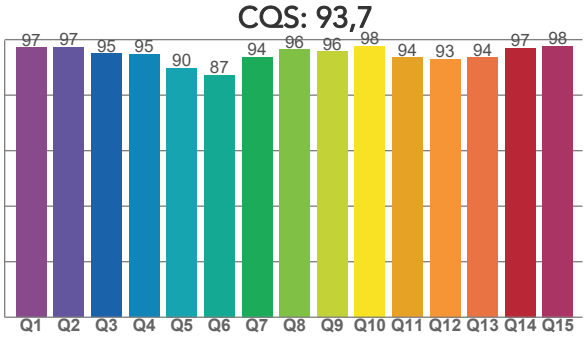
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,9	99,3	91,7	87,8	93,8	97,2	95,4	92,7	89,4	98,0	81,0	93,3	95,5	94,0	96,6

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
95,0	95,7	94,8	96,8	94,1	90,0	92,3	89,4	93,8	95,2	95,9	92,2	94,2	94,4	93,7	91,2

CQS: 93,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,2	97,2	95,0	94,7	89,7	87,3	93,8	96,4	95,8	97,8	93,6	93,1	93,5	97,0	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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3206 K	94,0	89,4	94,1	105,0	93,7	90	0,423	0,399	0,0007

TM30 DETAILS

PROLiGHTS

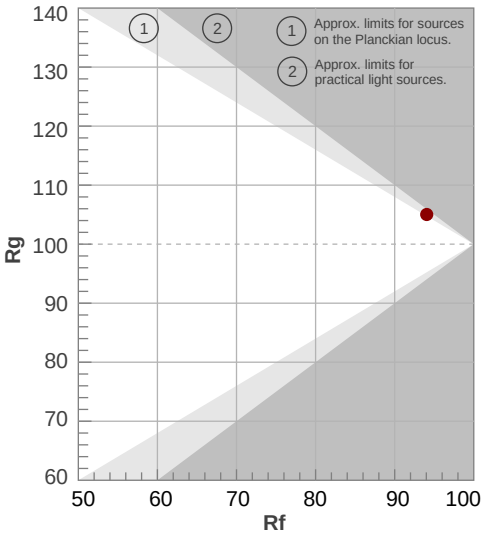
Rf 94,1

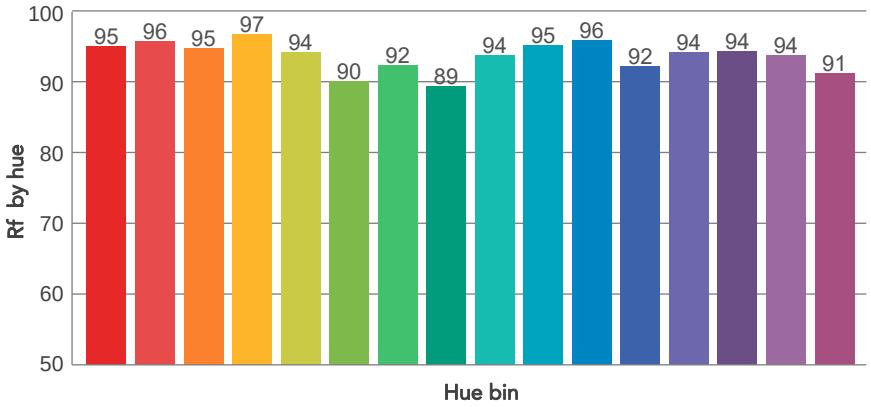
Fidelity index Rf

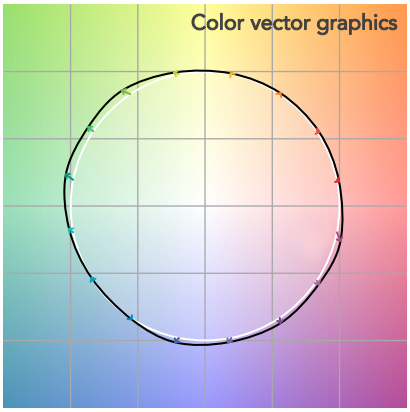
Rg 105,0

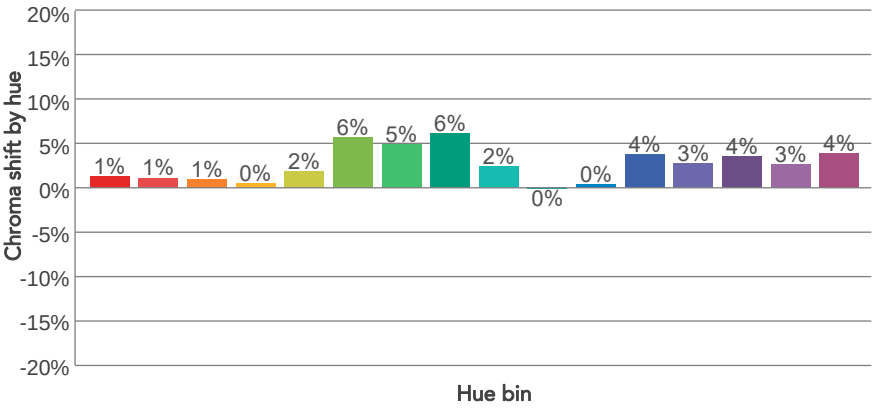
Gammut index

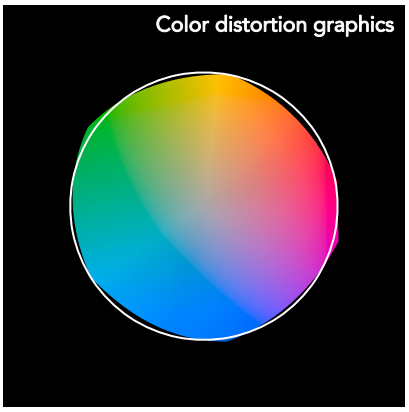
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	0%
4	97	0%	1%
5	94	2%	3%
6	90	6%	4%
7	92	5%	-1%
8	89	6%	-3%
9	94	2%	-3%
10	95	0%	-2%
11	96	0%	1%
12	92	4%	-2%
13	94	3%	-3%
14	94	4%	-2%
15	94	3%	-2%
16	91	4%	-6%

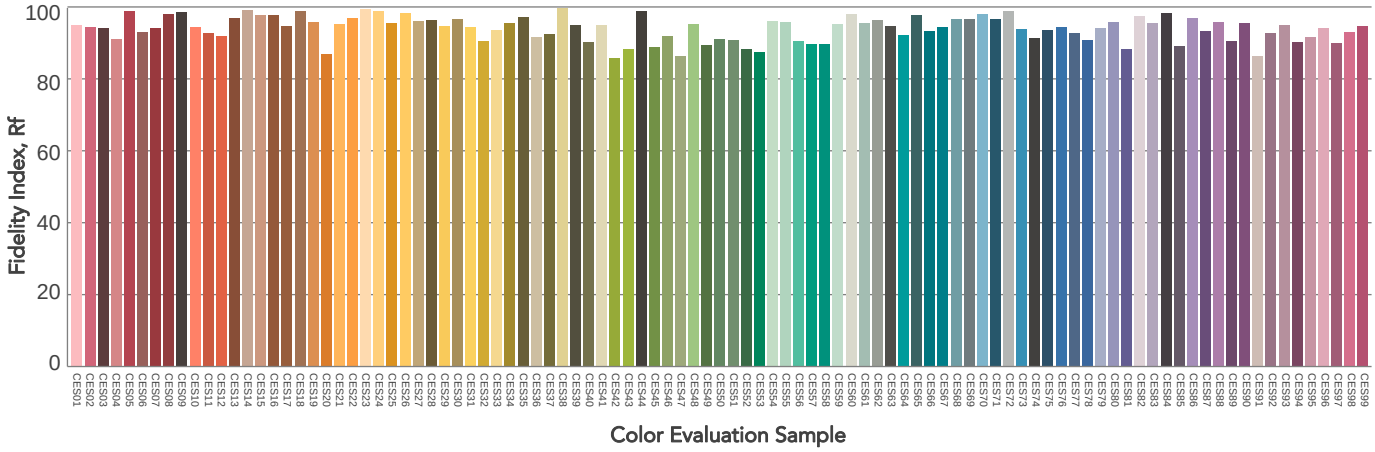












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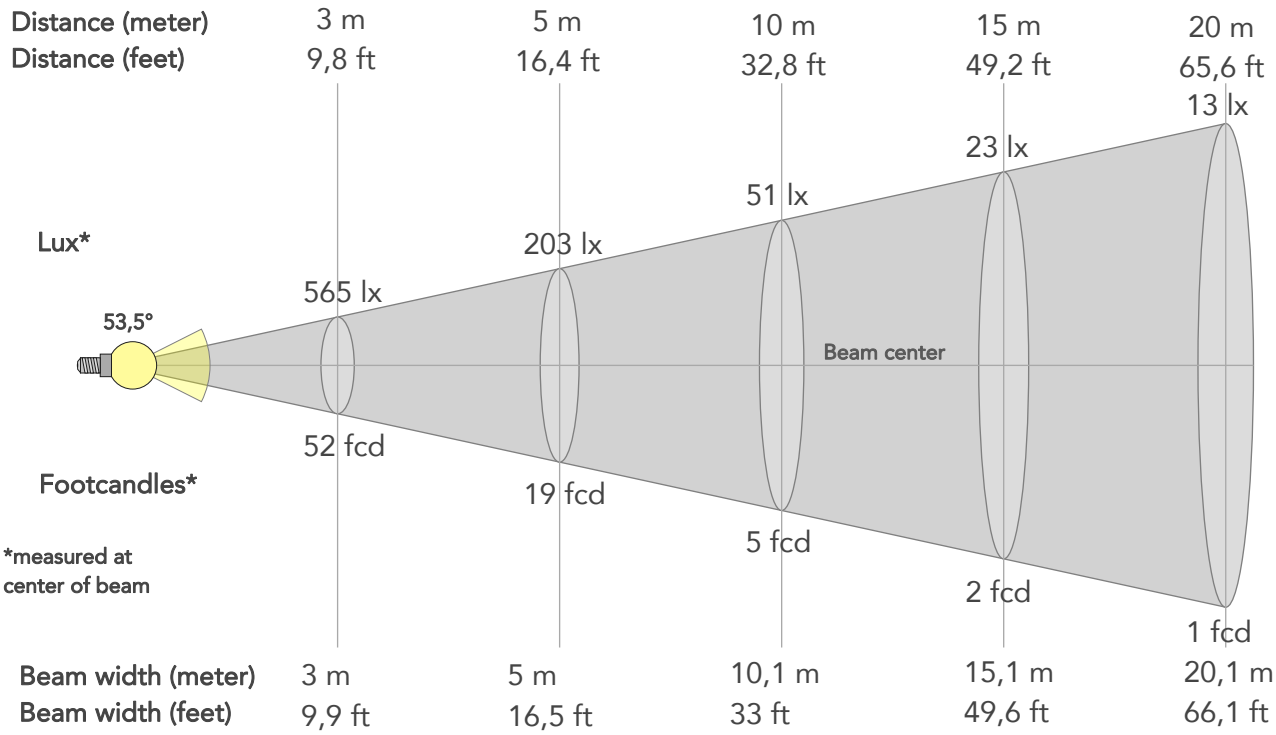
BEAM DETAILS

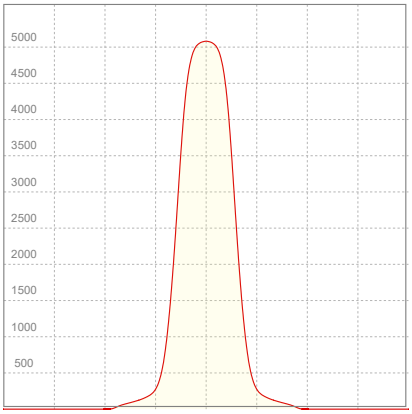
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,5°	79,5°	118,5°	96,1%	90,7%



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	5081lx	1270lx	565lx	318lx	203lx	90lx	51lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	472fcd	118fcd	52fcd	30fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5m	7,6m	10,1m	15,1m	20,1m	25,2m	30,2m	40,3m	50,4m
Beam wid.	3,3ft	6,6ft	9,9ft	13,2ft	16,5ft	24,8ft	33ft	49,6ft	66,1ft	82,6ft	99,1ft	132,2ft	165,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,419A	86,1W	50lm/W

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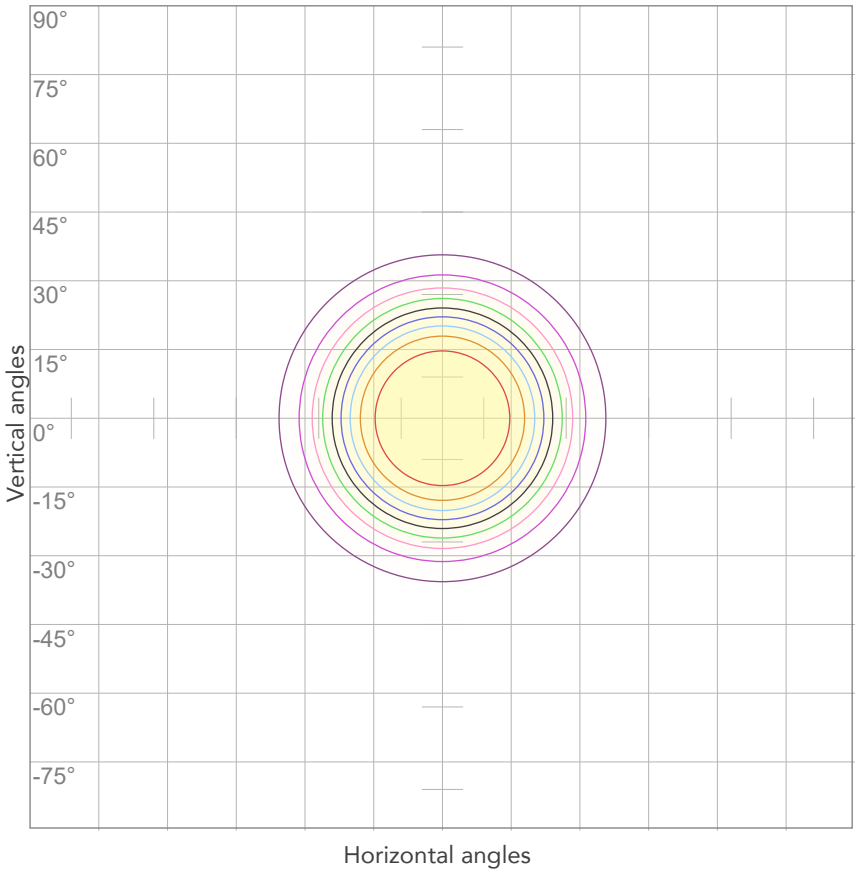
ISO DIAGRAMS

ISO CANDELA DIAGRAM



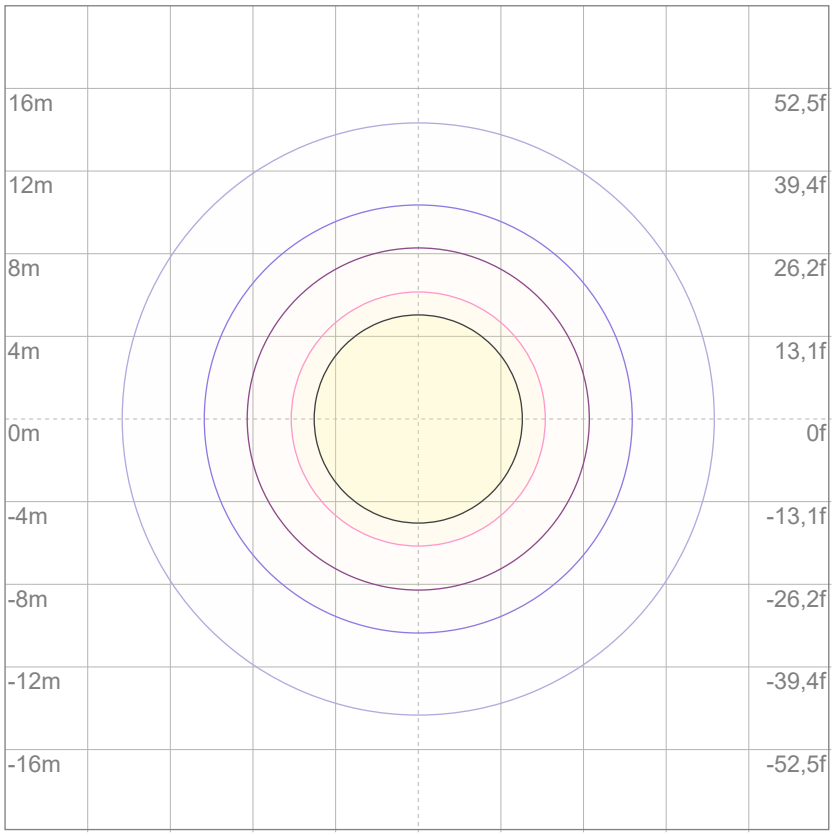
10%	508 cd
20%	1016 cd
30%	1524 cd
40%	2032 cd
50%	2541 cd
60%	3049 cd
70%	3557 cd
80%	4065 cd

Conditions:

Number of c-planes: 2

Candela at center: 5081 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.

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Total lumen output:

4392 lm

Peak candela output:

17346 cd

Light quality:

CRI: 95,3

Color temperature:

4001 K

PRODUCT NAME:

ECLPENDANTJR FC

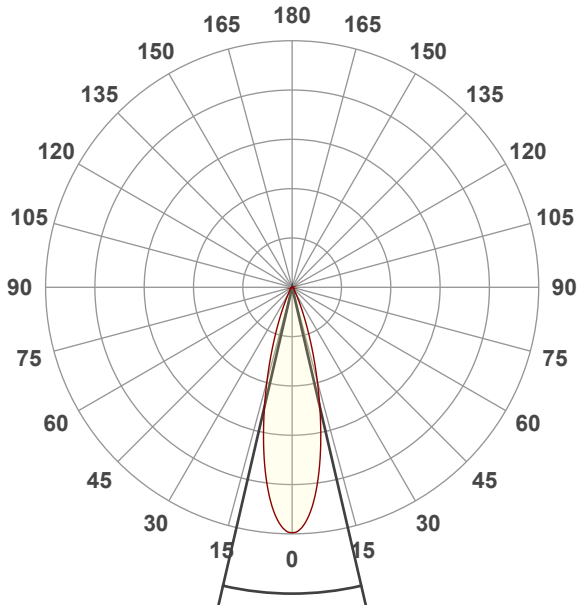
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
4000K

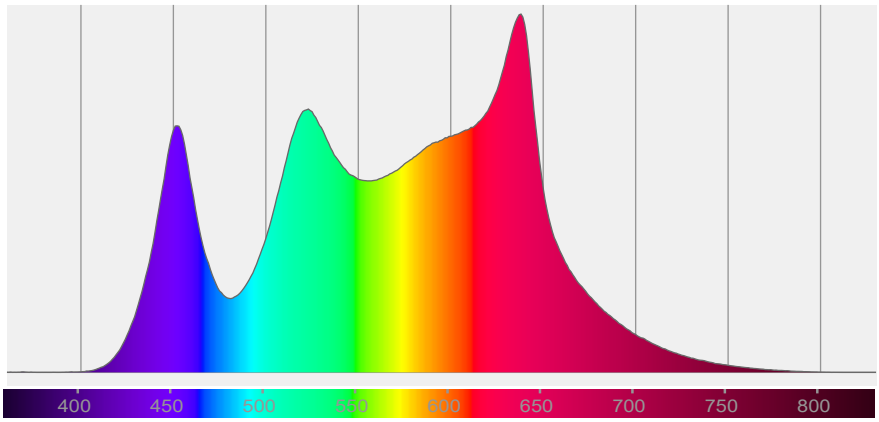
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:56:12



Beam angle 50%: 26,1°
Field angle 10%: 47°
Cut off angle 2.5%: 63,6°

Spectra



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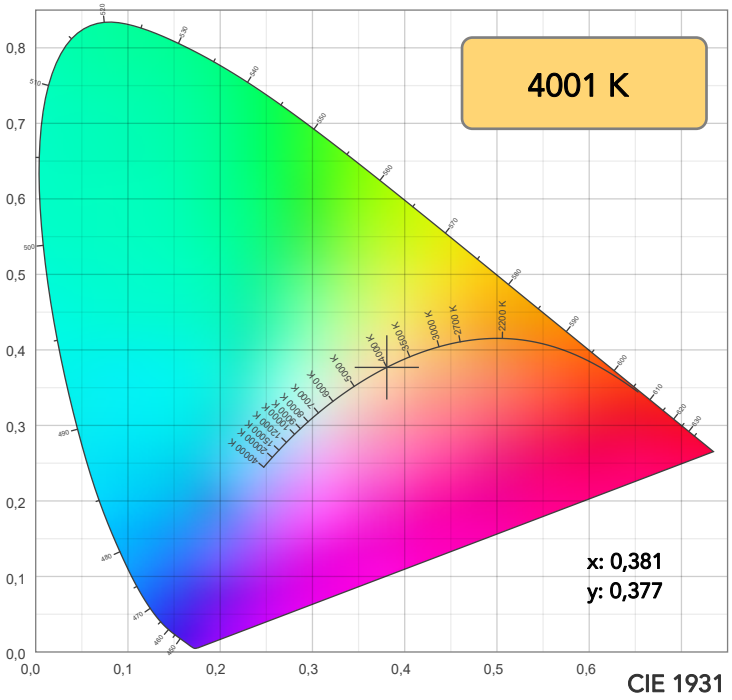
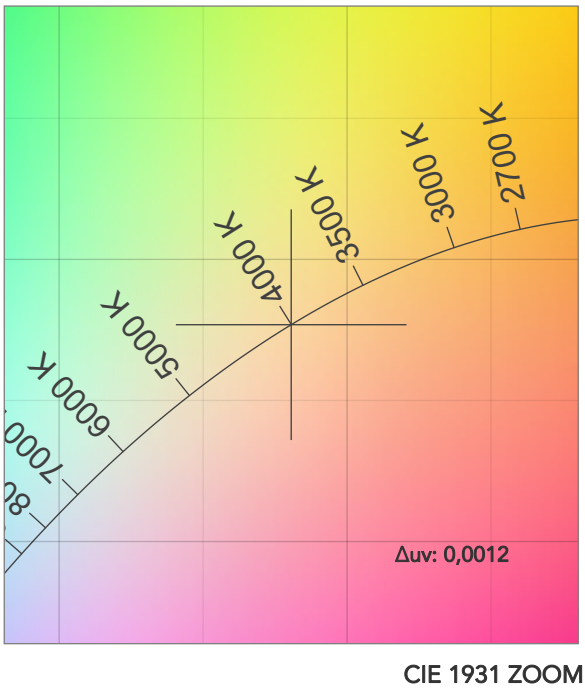
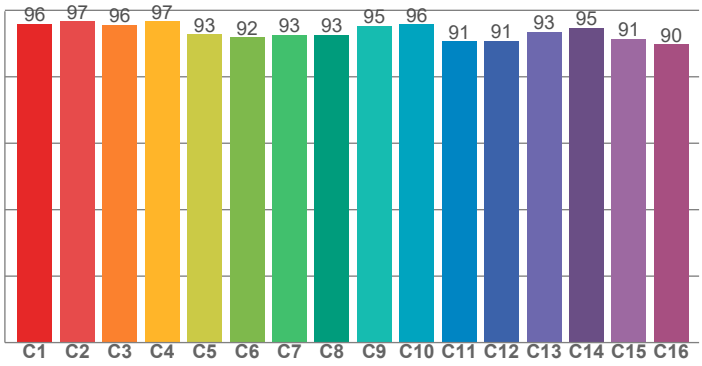
COLOR DETAILS

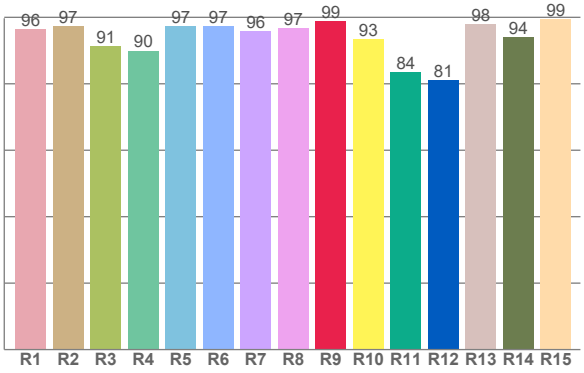




TM30: 93,7



CRI: 95,3 (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
96,4	97,3	91,3	89,9	97,3	97,3	95,9	96,8	98,9	93,4	83,5	81,1	97,9	94,1	99,4

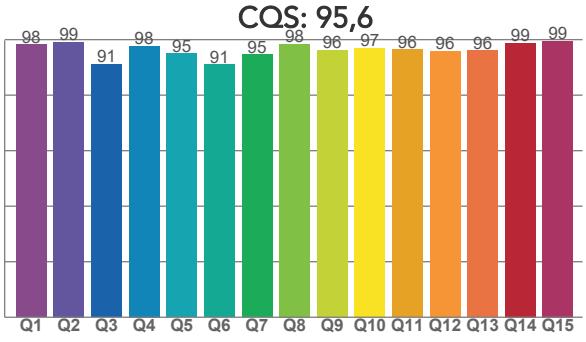
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

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

CQS: 95,6



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4001 K	95,3	98,9	93,7	103,9	95,6	91	0,381	0,377	0,0012

TM30 DETAILS

PROLiGHTS

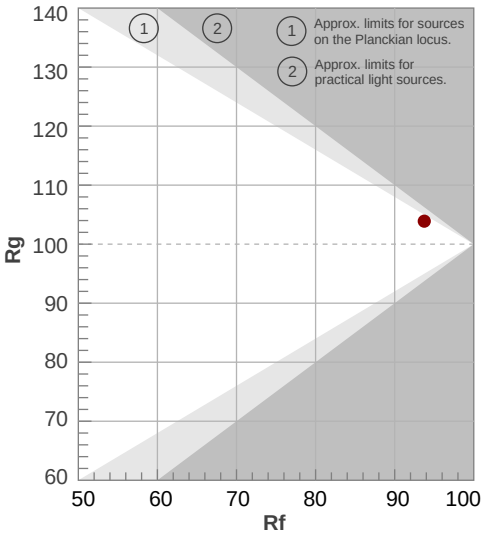
Rf 93,7

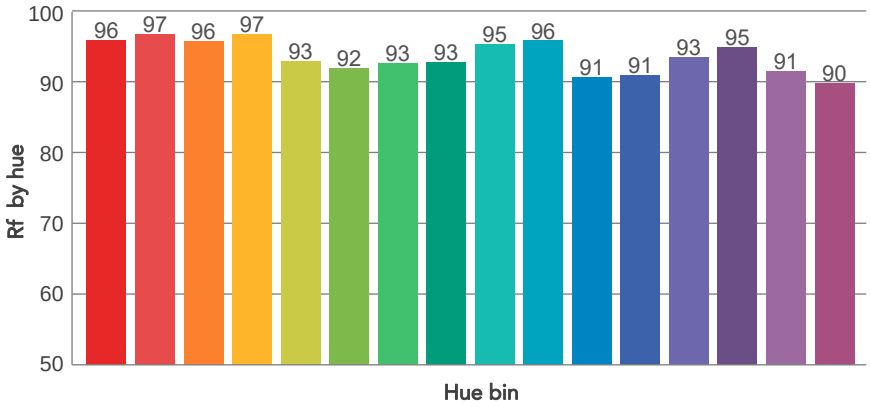
Fidelity index Rf

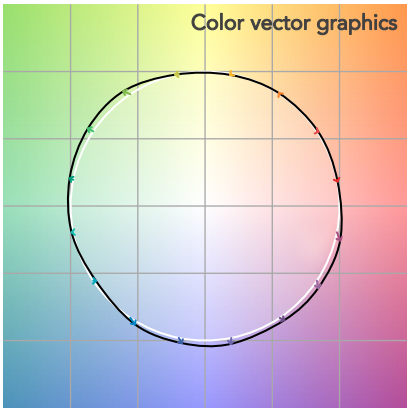
Rg 103,9

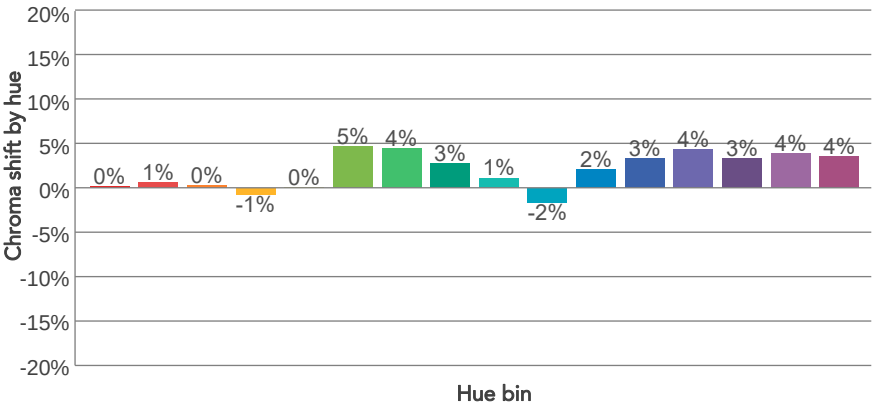
Gammut index

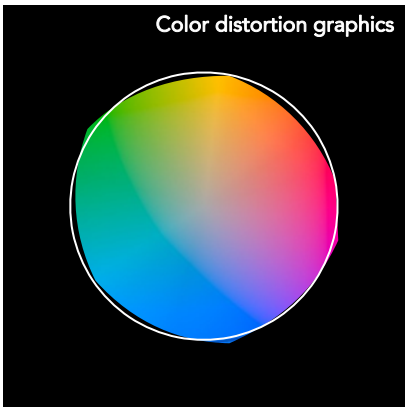
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	-1%
2	97	1%	-1%
3	96	0%	1%
4	97	-1%	1%
5	93	0%	3%
6	92	5%	3%
7	93	4%	0%
8	93	3%	-1%
9	95	1%	0%
10	96	-2%	1%
11	91	2%	6%
12	91	3%	3%
13	93	4%	-1%
14	95	3%	2%
15	91	4%	-4%
16	90	4%	-6%

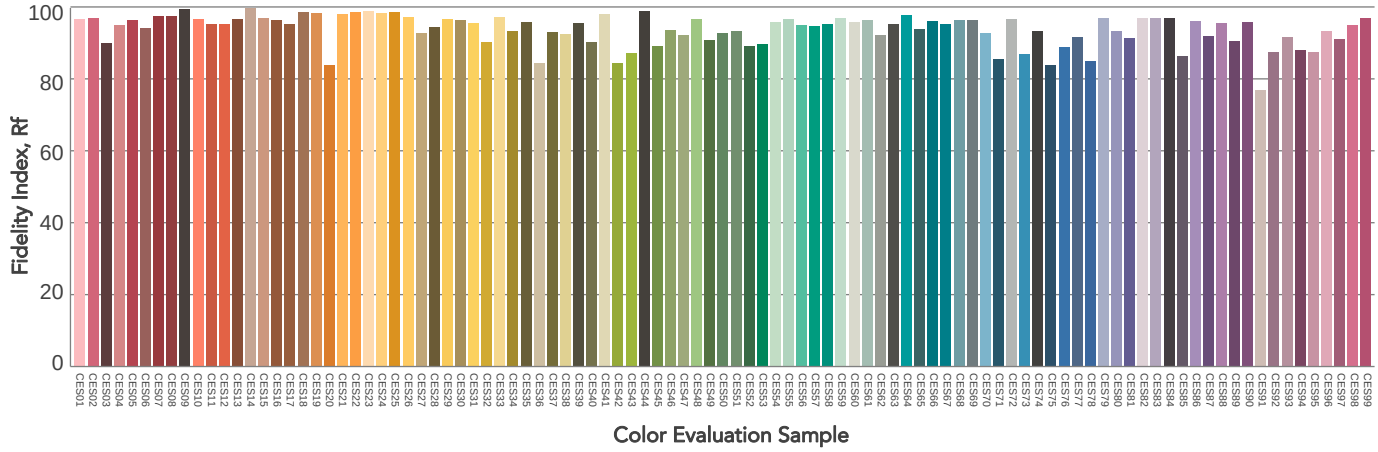












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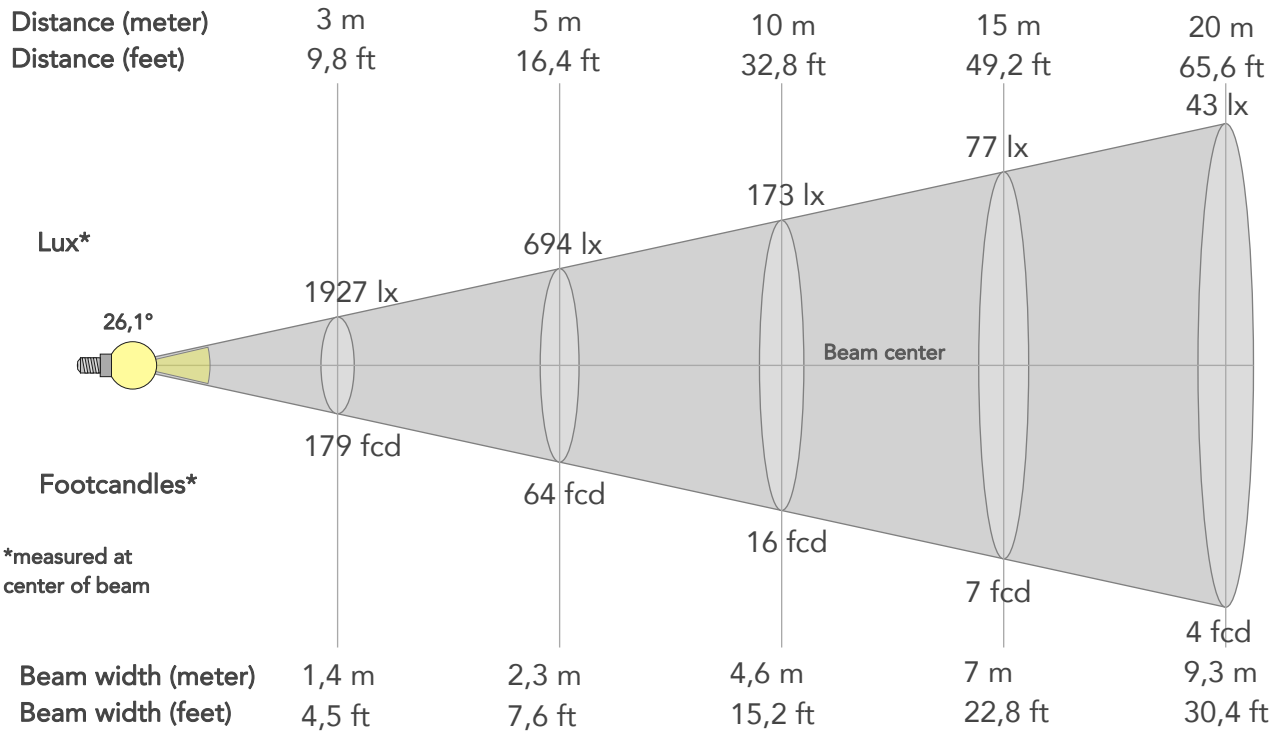
BEAM DETAILS

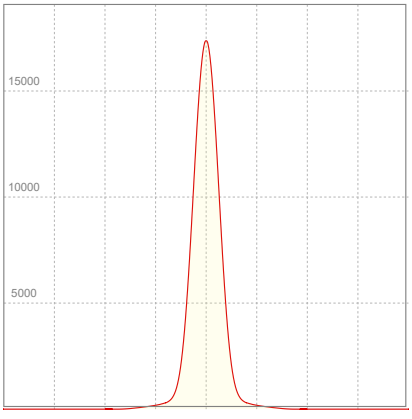
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,1°	47°	63,6°	98,9%	95,4%



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	17346lx	4336lx	1927lx	1084lx	694lx	308lx	173lx	77lx	43lx	28lx	19lx	11lx	7lx
Footcand.	1611fcd	403fcd	179fcd	101fcd	64fcd	29fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,6m	7m	9,3m	11,6m	13,9m	18,5m	23,2m
Beam wid.	1,5ft	3,1ft	4,5ft	6,1ft	7,6ft	11,4ft	15,2ft	22,8ft	30,4ft	38ft	45,6ft	60,8ft	76ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,439A	91,5W	48lm/W

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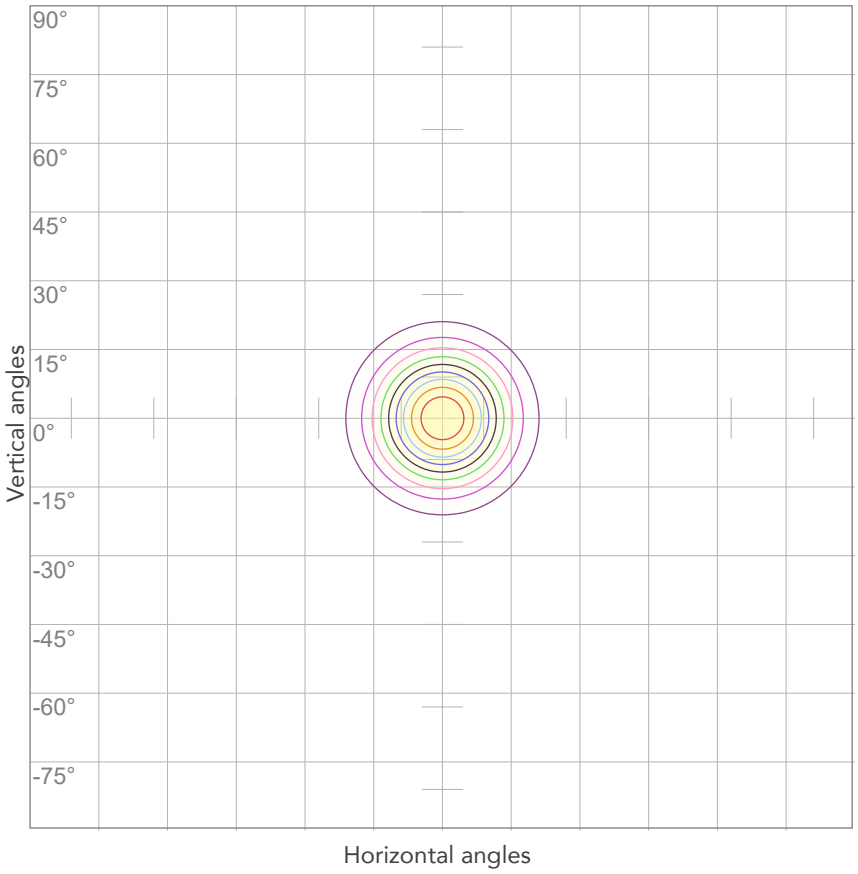
ISO DIAGRAMS

ISO CANDELA DIAGRAM



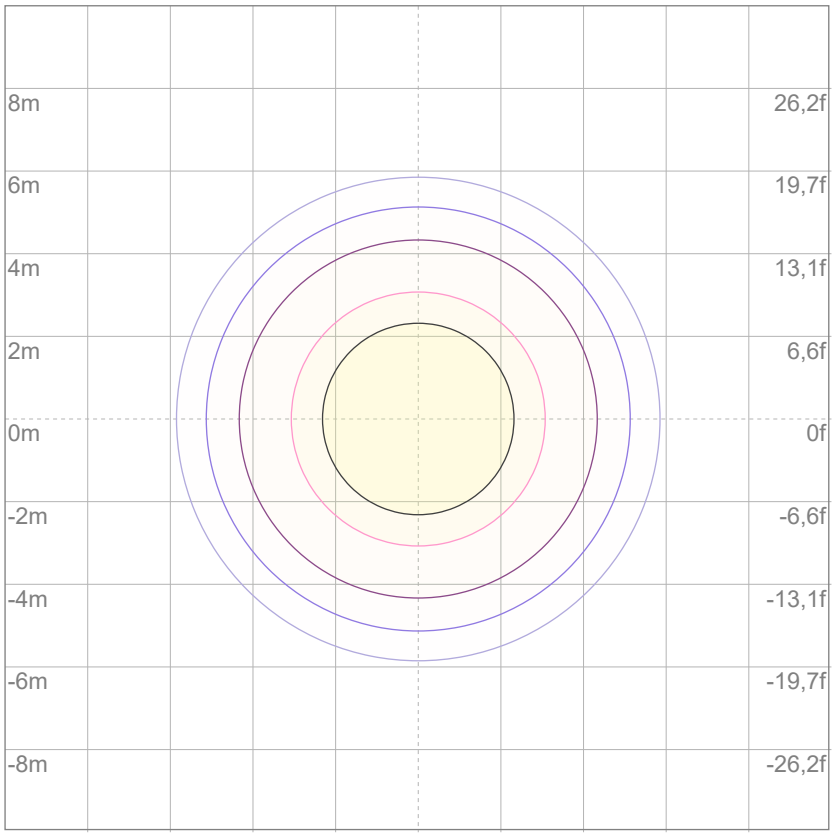
10%	1735 cd
20%	3469 cd
30%	5204 cd
40%	6938 cd
50%	8673 cd
60%	10408 cd
70%	12142 cd
80%	13877 cd

Conditions:

Number of c-planes: 2

Candela at center: 17346 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,20 lx
5%	8,67 lx
10%	17,3 lx
30%	52,0 lx
50%	86,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 173 lx

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

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Total lumen output:

4131 lm

Peak candela output:

8034 cd

Light quality:

CRI: 95,0

Color temperature:

4001 K

PRODUCT NAME:

ECLPENDANTJR FC

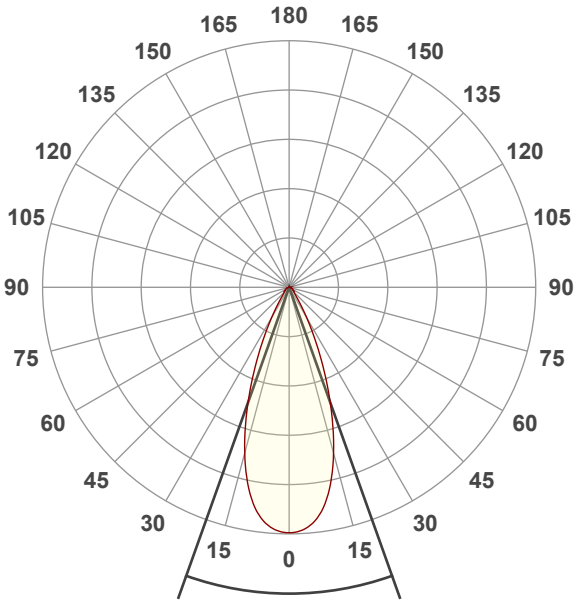
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
4000K

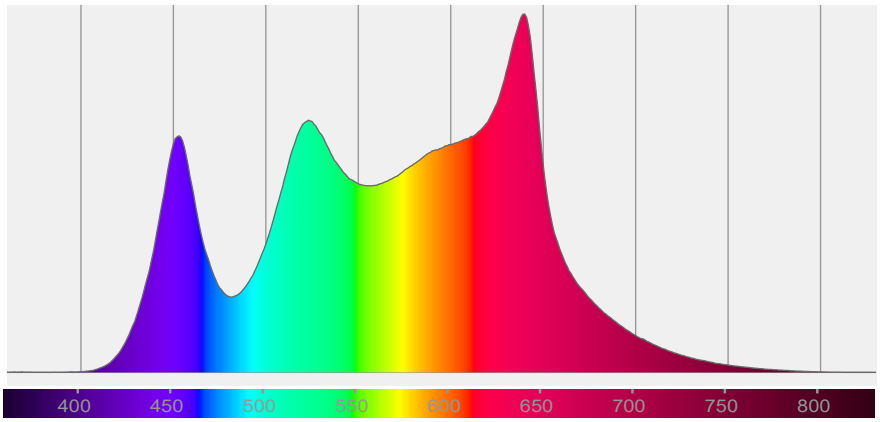
Operator:
Paolo Carvone

Date and time:
18/10/2022 17:08:35

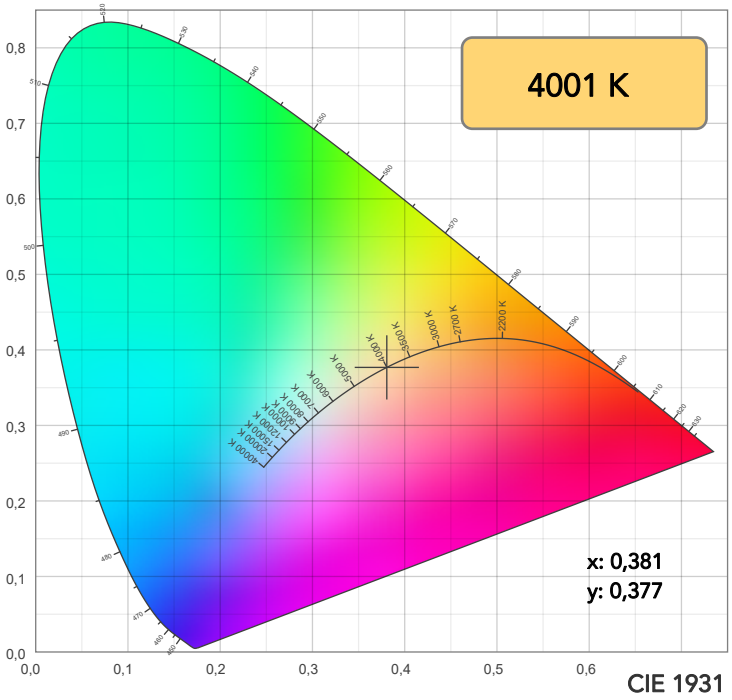


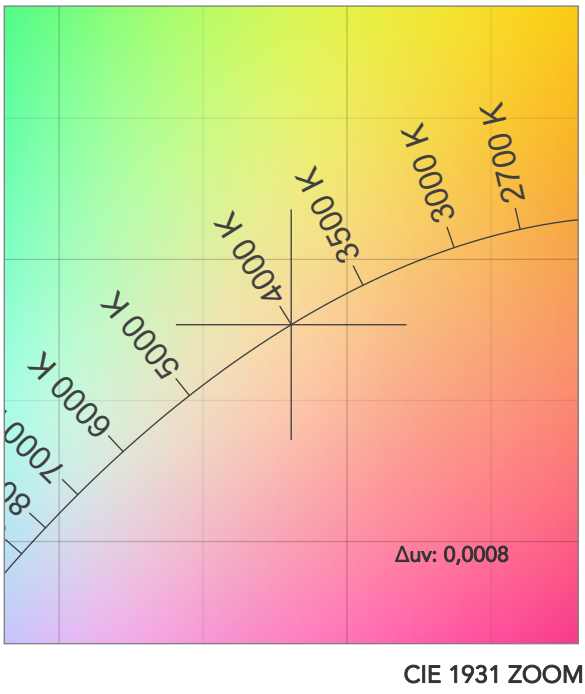
Beam angle 50%: 39,3°
Field angle 10%: 65,1°
Cut off angle 2.5%: 94,4°

Spectra

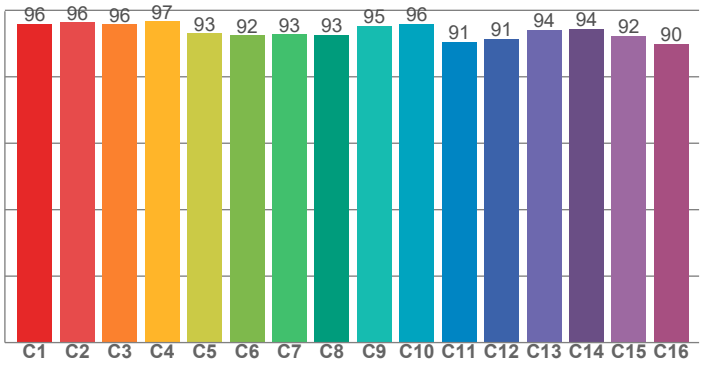


COLOR DETAILS

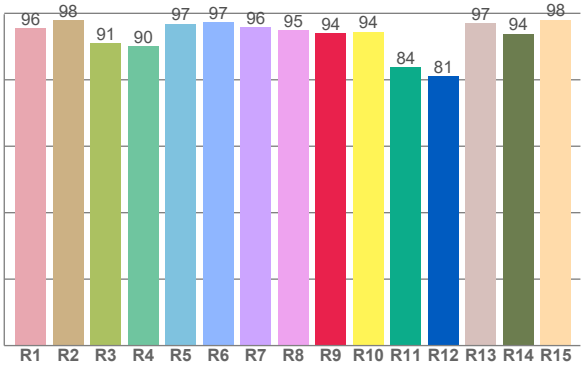




TM30: 93,9



CRI: 95,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,6	97,9	91,0	90,1	96,8	97,4	95,9	95,0	94,0	94,4	83,8	81,1	97,1	93,9	98,0

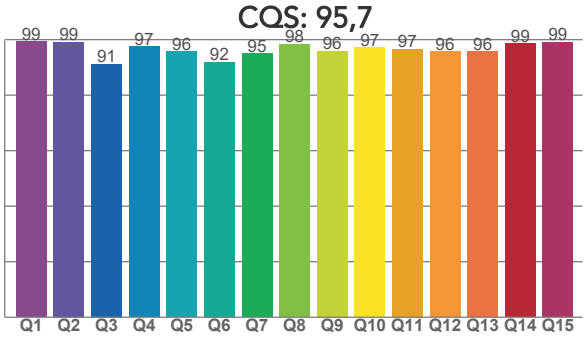
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,9	96,3	95,8	96,6	93,0	92,4	92,7	92,7	95,4	95,9	90,6	91,4	94,1	94,4	92,3	89,9

CQS Q values

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

CQS: 95,7



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4001 K	95,0	94,0	93,9	104,0	95,7	92	0,381	0,377	0,0008

TM30 DETAILS

PROLiGHTS

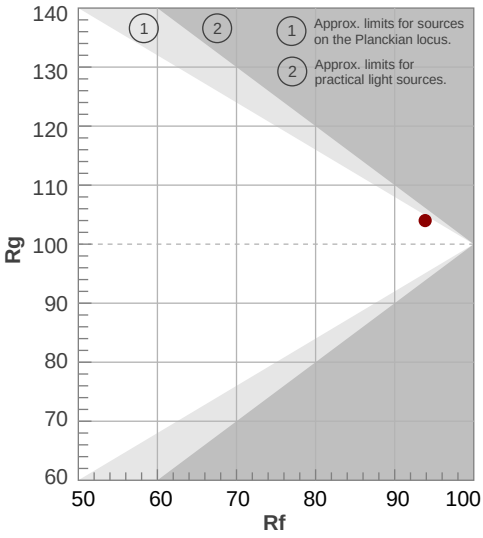
Rf 93,9

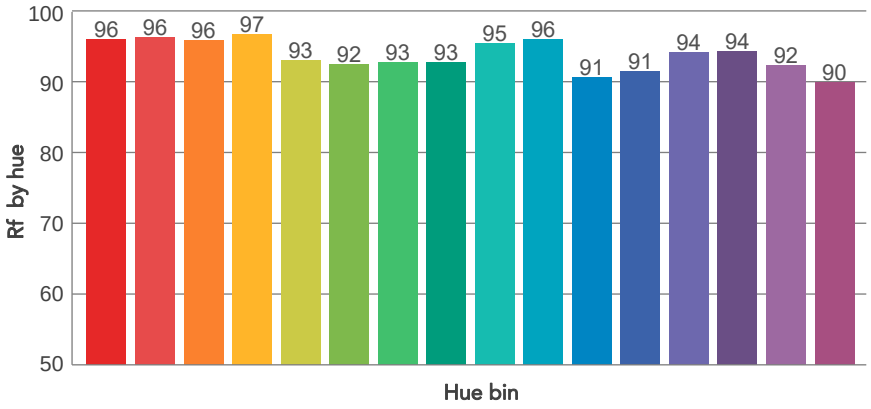
Fidelity index Rf

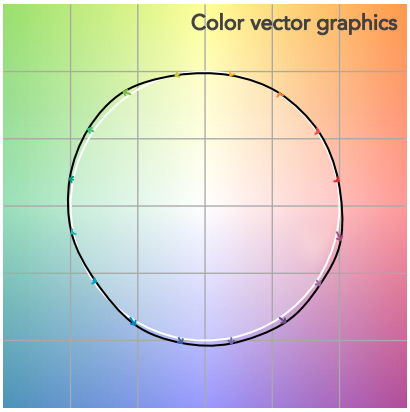
Rg 104,0

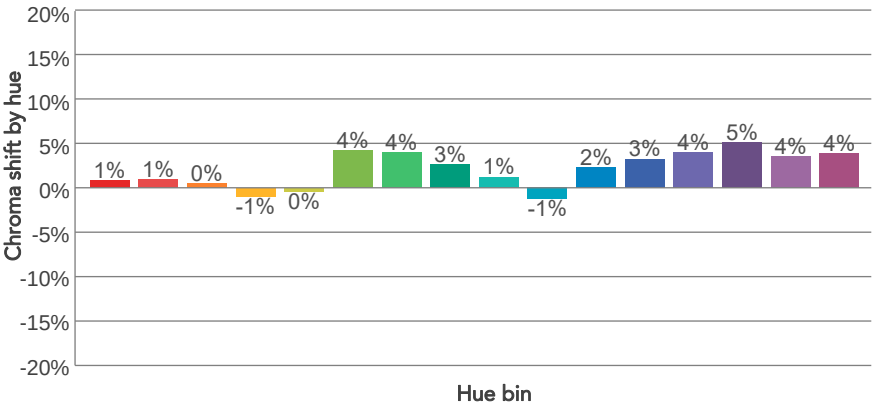
Gammut index

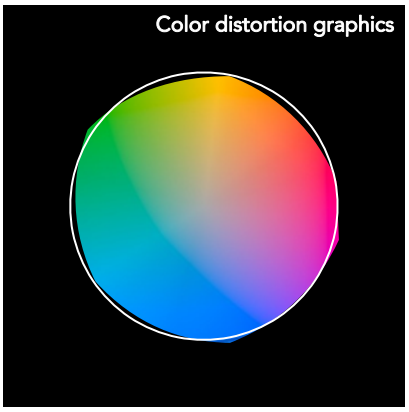
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	1%	-1%
2	96	1%	-1%
3	96	0%	0%
4	97	-1%	0%
5	93	0%	2%
6	92	4%	3%
7	93	4%	1%
8	93	3%	0%
9	95	1%	1%
10	96	-1%	2%
11	91	2%	6%
12	91	3%	3%
13	94	4%	-1%
14	94	5%	2%
15	92	4%	-2%
16	90	4%	-5%

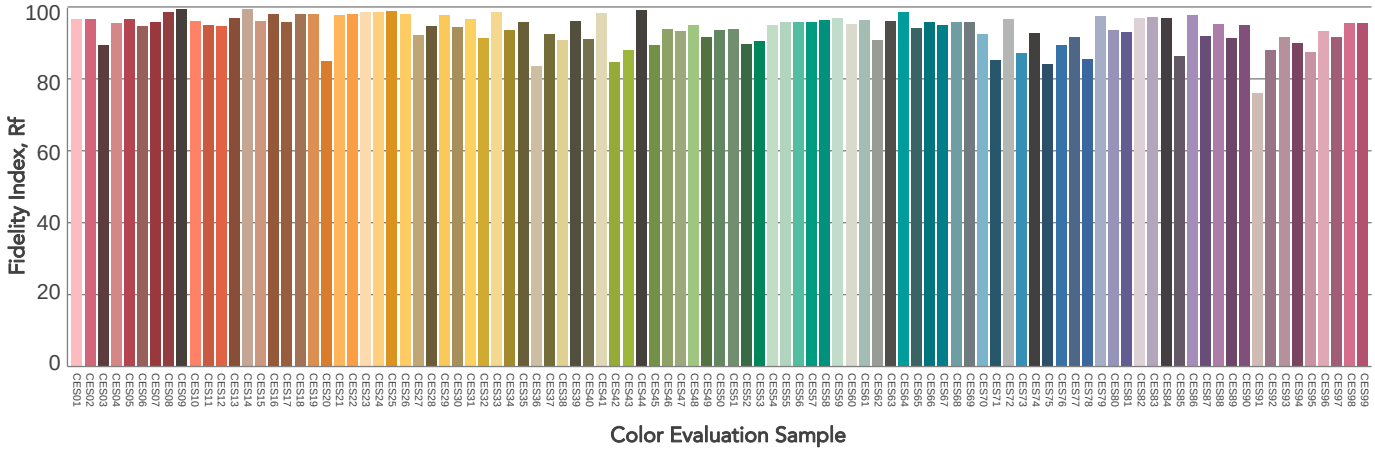












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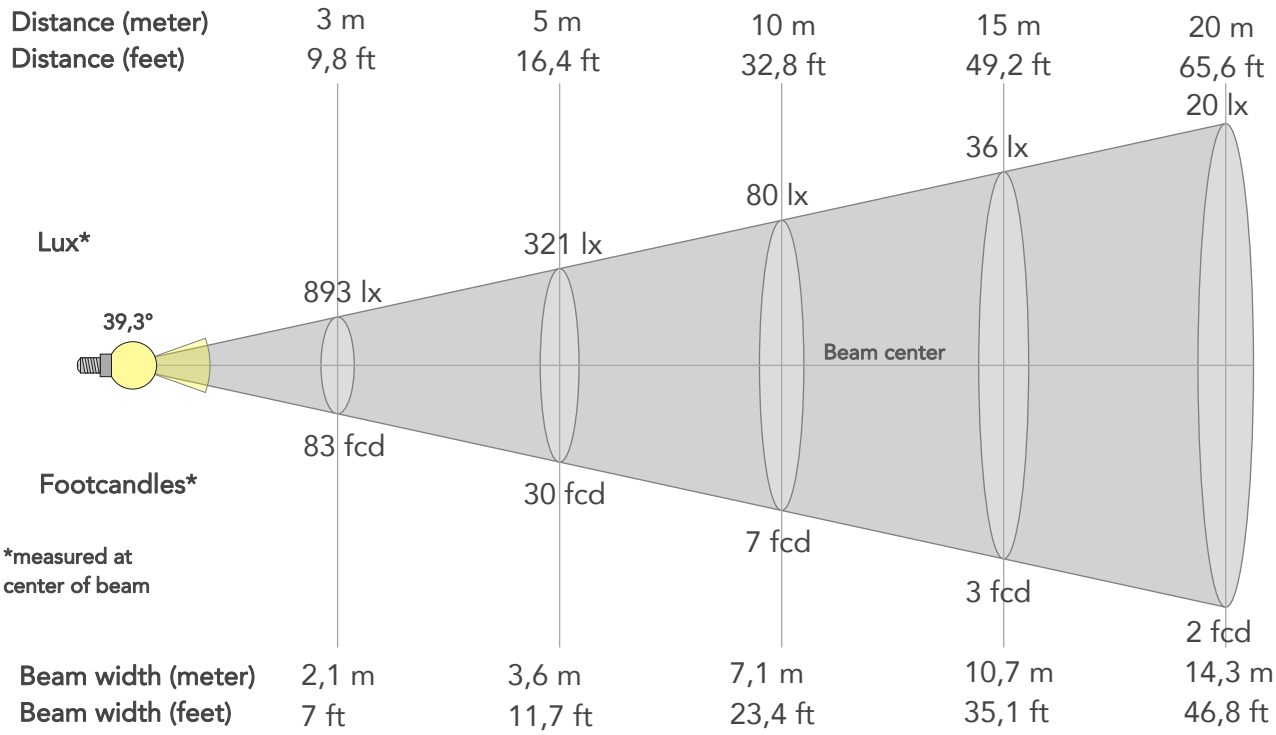
BEAM DETAILS

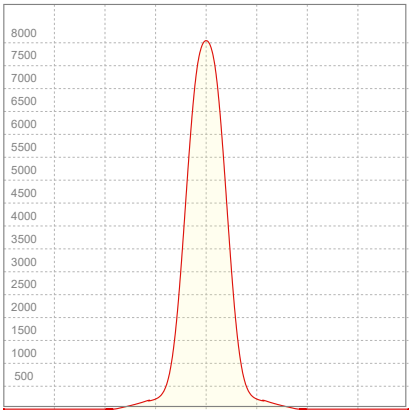
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,3°	65,1°	94,4°	96,9%	91,5%



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	8034lx	2008lx	893lx	502lx	321lx	143lx	80lx	36lx	20lx	13lx	9lx	5lx	3lx
Footcand.	746fcd	187fcd	83fcd	47fcd	30fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,7m	1,4m	2,1m	2,9m	3,6m	5,4m	7,1m	10,7m	14,3m	17,8m	21,4m	28,5m	35,7m
Beam wid.	2,4ft	4,7ft	7ft	9,3ft	11,7ft	17,5ft	23,4ft	35,1ft	46,8ft	58,5ft	70,2ft	93,6ft	117ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,434A	89,6W	46lm/W

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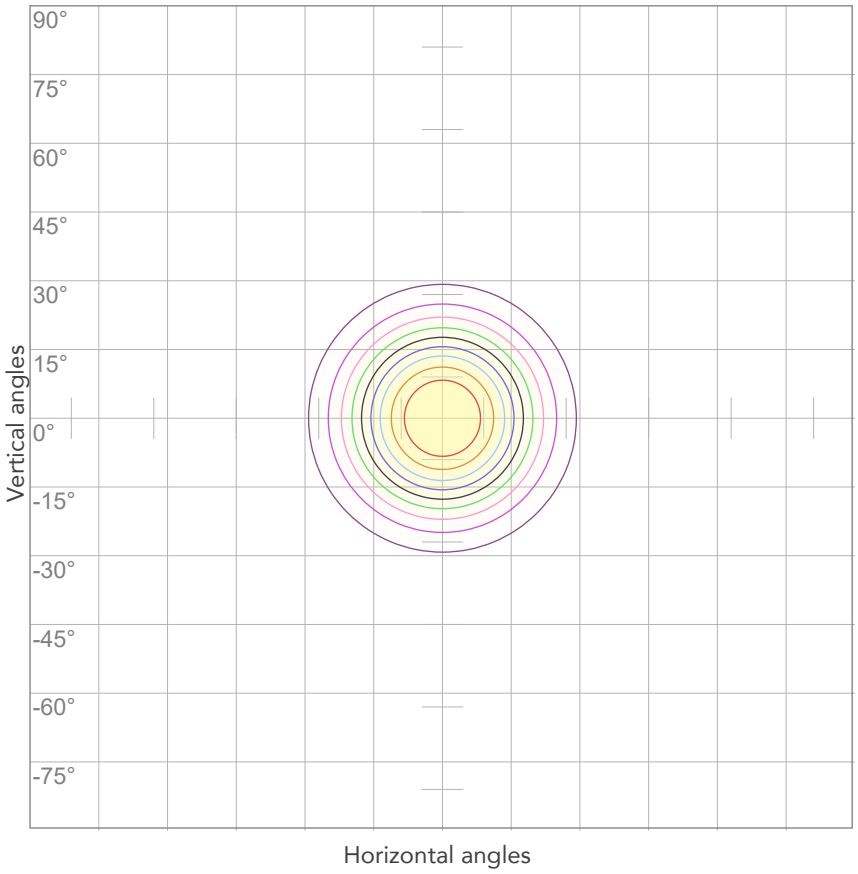
ISO DIAGRAMS

ISO CANDELA DIAGRAM



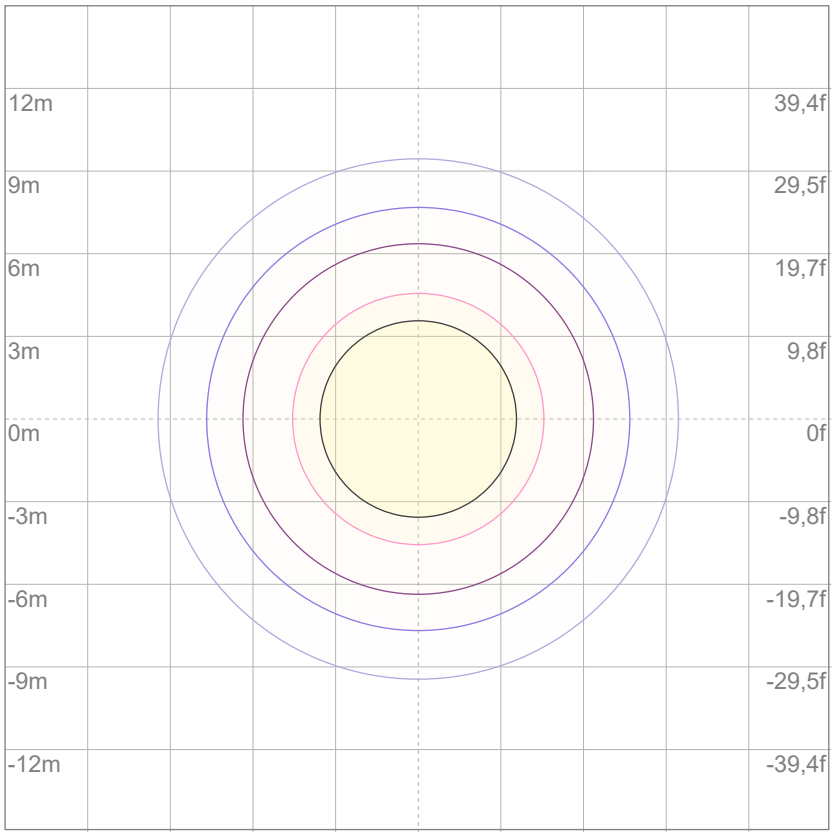
10%	803 cd
20%	1607 cd
30%	2410 cd
40%	3214 cd
50%	4017 cd
60%	4820 cd
70%	5624 cd
80%	6427 cd

Conditions:

Number of c-planes: 2

Candela at center: 8034 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,41 lx
5%	4,02 lx
10%	8,03 lx
30%	24,1 lx
50%	40,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 80,3 lx

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

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Total lumen output:

4500 lm

Peak candela output:

5277 cd

Light quality:

CRI: 95,1

Color temperature:

4001 K

PRODUCT NAME:

ECLPENDANTJR FC

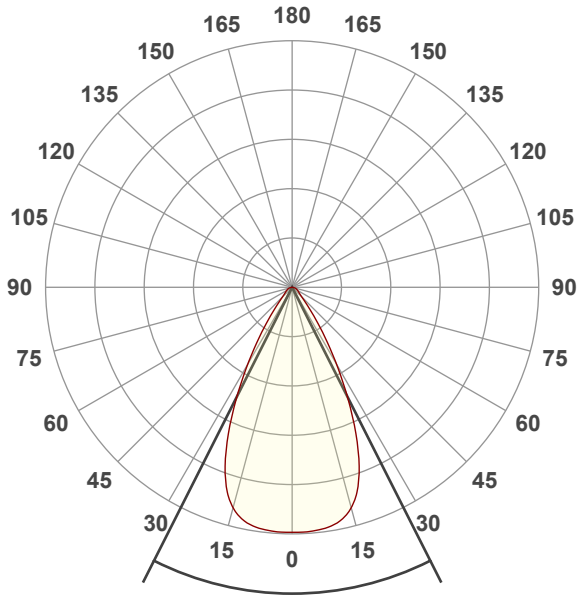
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
4000K

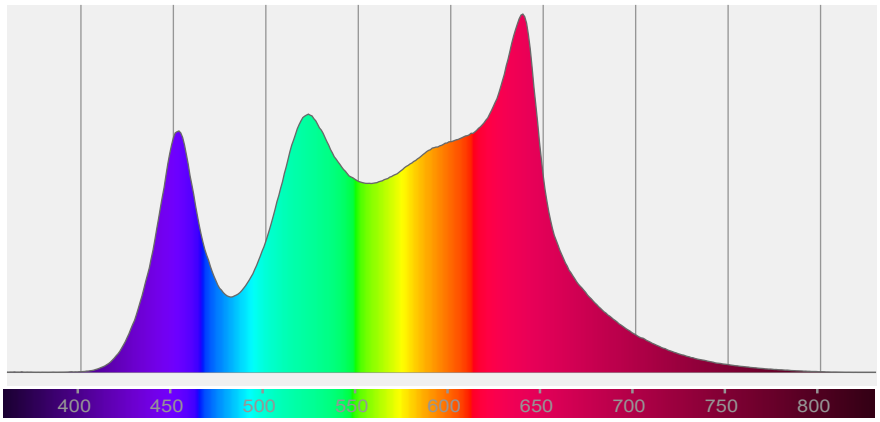
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:53:28

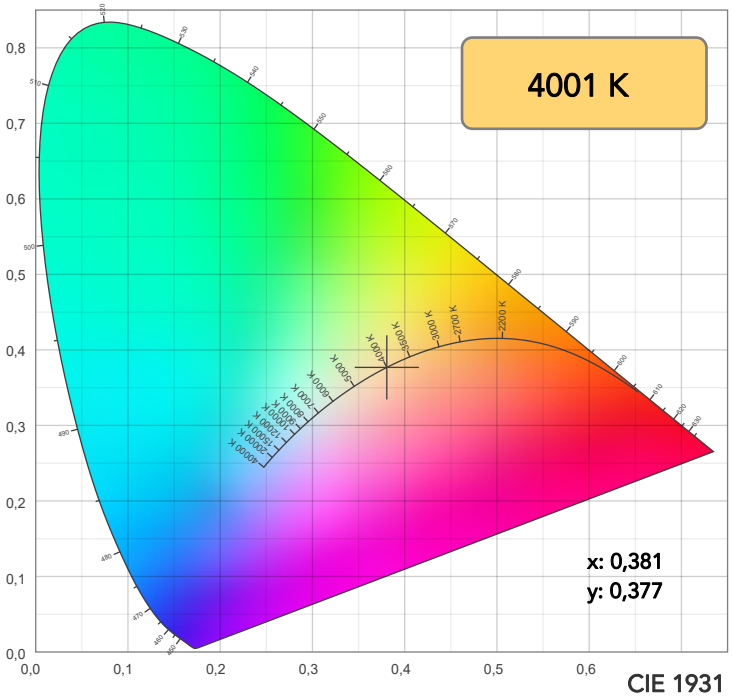


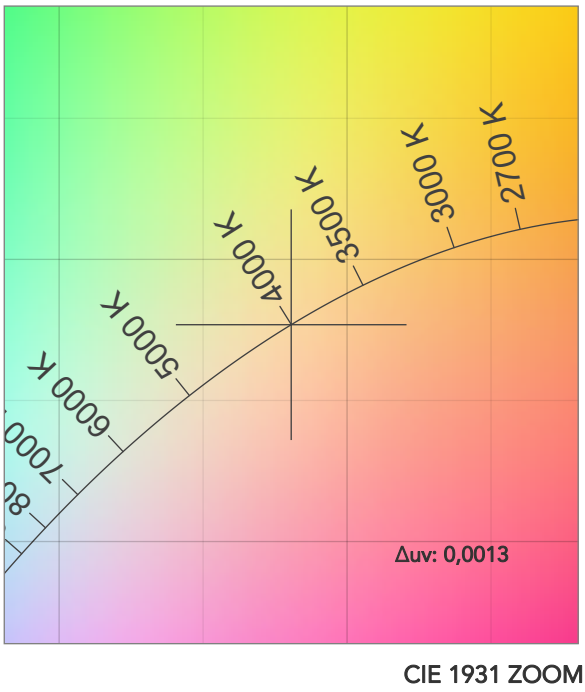
Beam angle 50%: 53,6°
Field angle 10%: 80,1°
Cut off angle 2.5%: 121,1°

Spectra

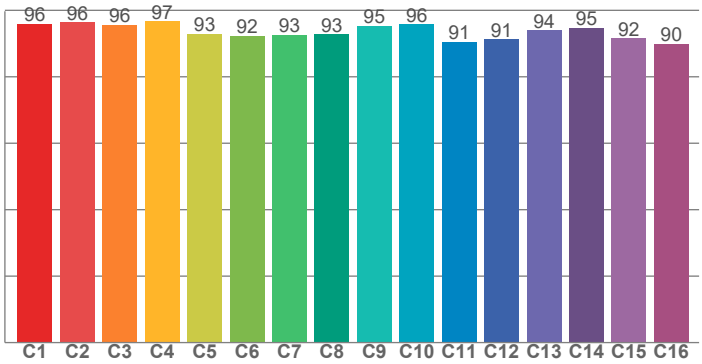


COLOR DETAILS

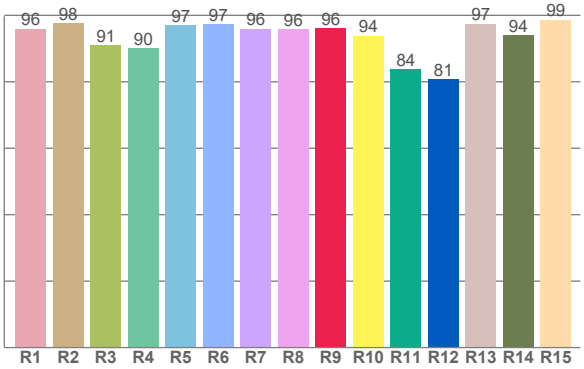




TM30: 93,8



CRI: 95,1 (R1-R8)



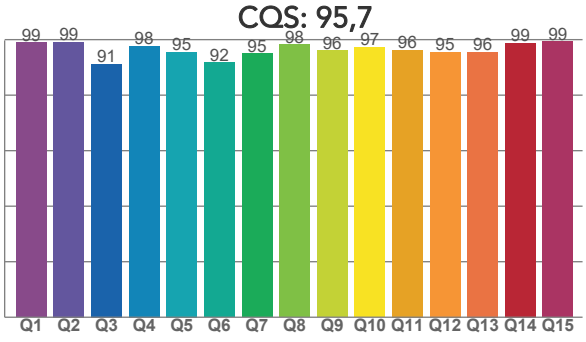
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,0	97,6	91,0	90,1	97,1	97,3	95,9	95,7	96,2	93,9	83,8	80,7	97,4	93,9	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
96,0	96,4	95,7	96,6	93,0	92,3	92,7	92,7	95,4	95,8	90,6	91,3	93,9	94,7	91,5	89,8

CQS: 95,7



CQS Q values

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

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4001 K	95,1	96,2	93,8	103,8	95,7	92	0,381	0,377	0,0013

TM30 DETAILS

PROLiGHTS

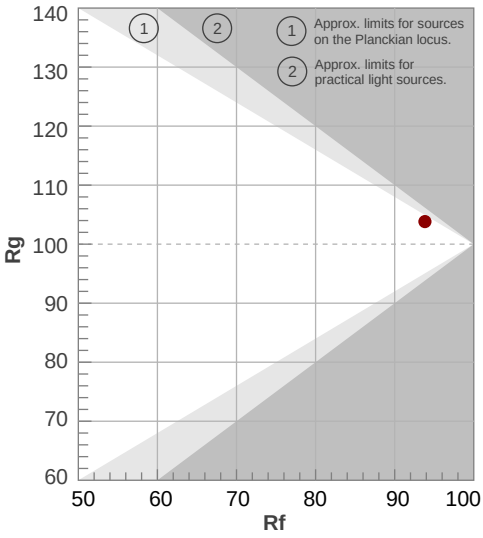
Rf 93,8

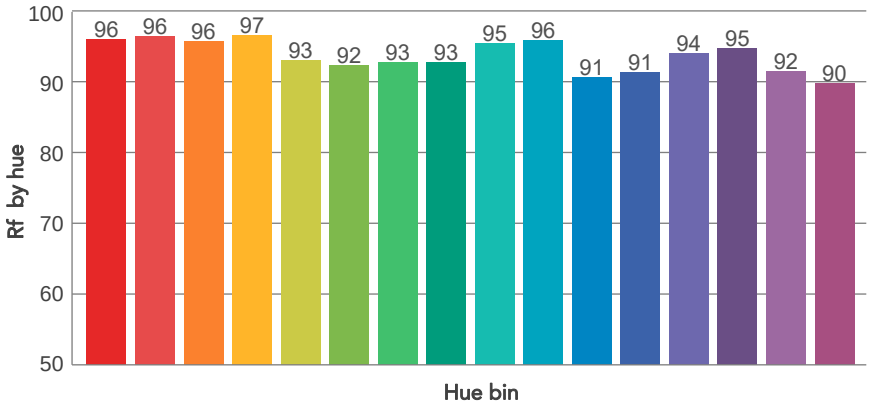
Fidelity index Rf

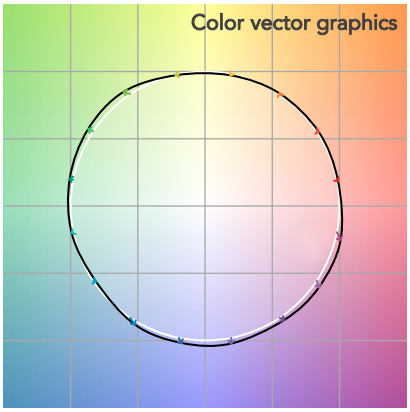
Rg 103,8

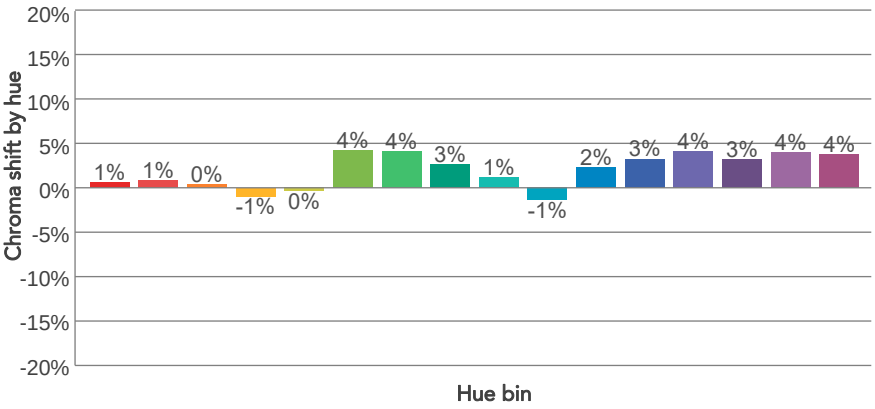
Gammut index

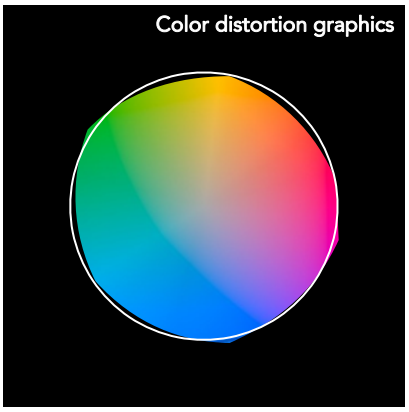
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	1%	-1%
2	96	1%	-1%
3	96	0%	1%
4	97	-1%	0%
5	93	0%	2%
6	92	4%	3%
7	93	4%	1%
8	93	3%	0%
9	95	1%	0%
10	96	-1%	2%
11	91	2%	6%
12	91	3%	3%
13	94	4%	-1%
14	95	3%	2%
15	92	4%	-3%
16	90	4%	-5%

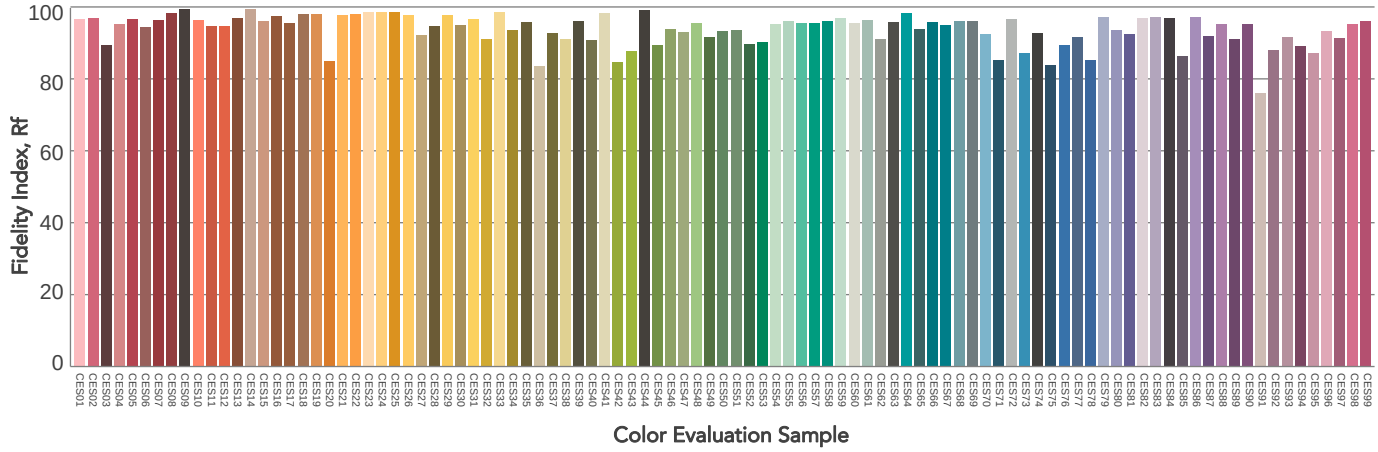












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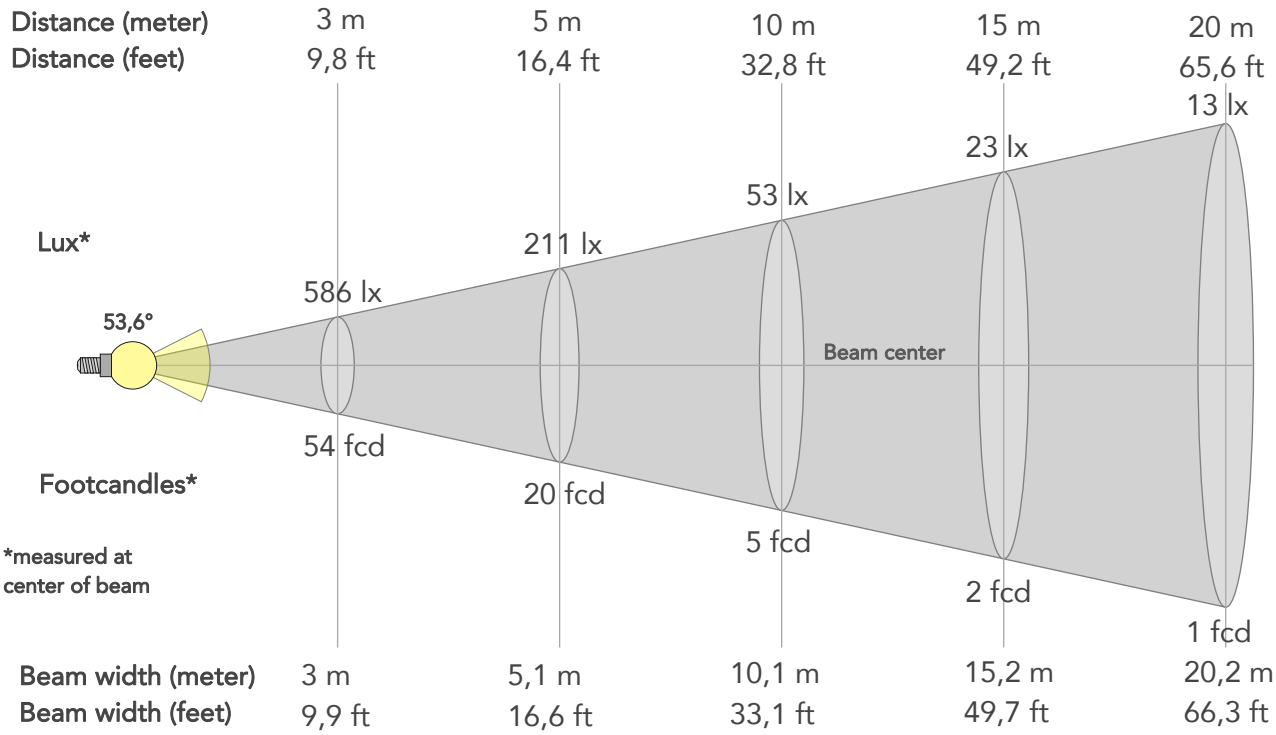
BEAM DETAILS

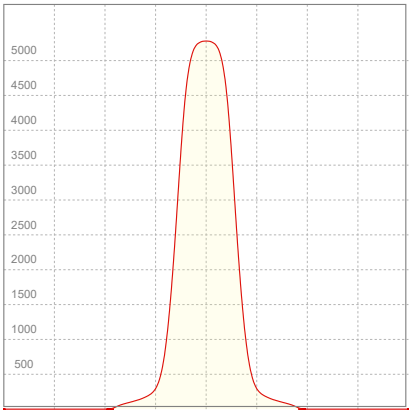
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,6°	80,1°	121,1°	95,8%	90,3%



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	5277lx	1319lx	586lx	330lx	211lx	94lx	53lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	490fcd	123fcd	54fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,3m	40,4m	50,5m
Beam wid.	3,3ft	6,7ft	9,9ft	13,2ft	16,6ft	24,9ft	33,1ft	49,7ft	66,3ft	82,9ft	99,4ft	132,6ft	165,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,440A	91,1W	49lm/W

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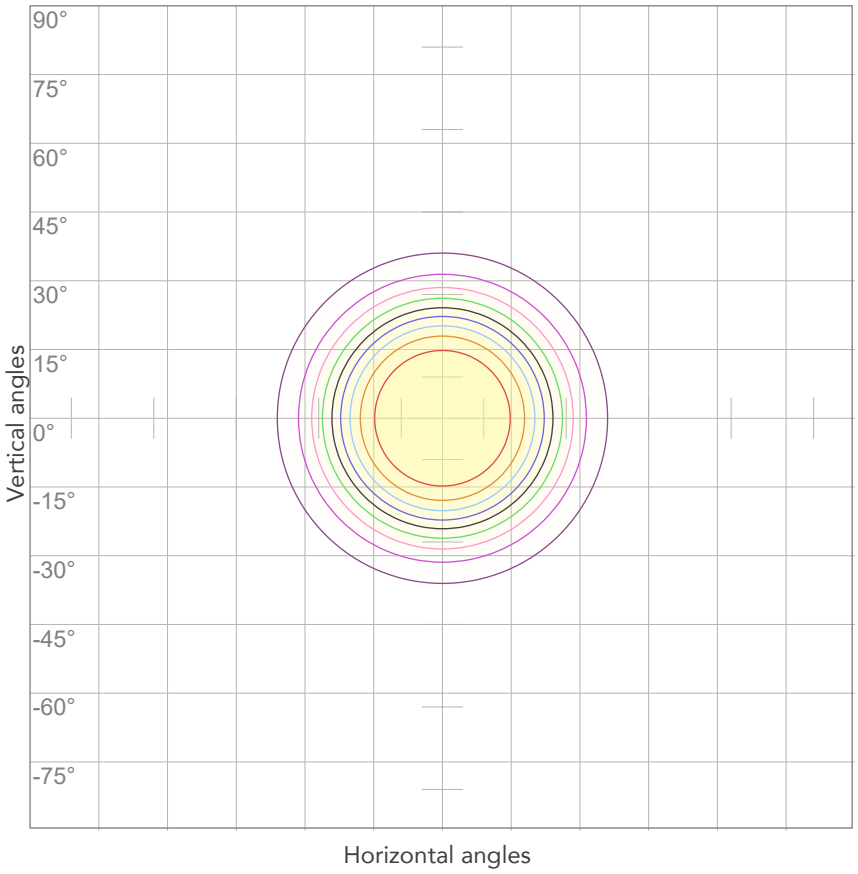
ISO DIAGRAMS

ISO CANDELA DIAGRAM



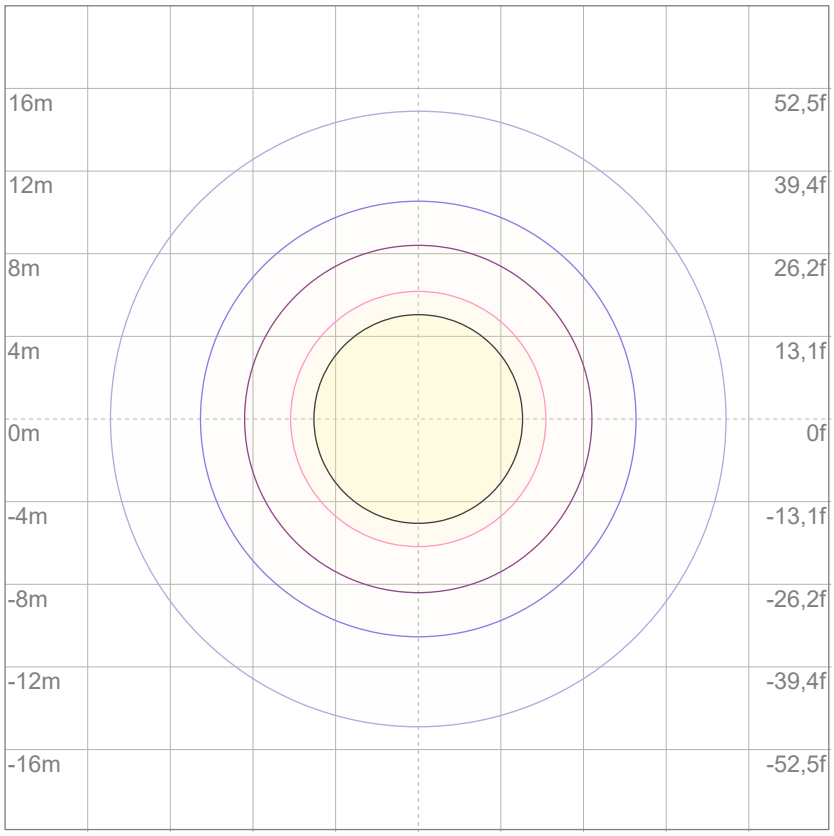
10%	528 cd
20%	1055 cd
30%	1583 cd
40%	2111 cd
50%	2639 cd
60%	3166 cd
70%	3694 cd
80%	4222 cd

Conditions:

Number of c-planes: 2

Candela at center: 5277 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,58 lx
5%	2,64 lx
10%	5,28 lx
30%	15,8 lx
50%	26,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 52,8 lx

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

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Total lumen output:

4892 lm

Peak candela output:

18822 cd

Light quality:

CRI: 94,8

Color temperature:

5612 K

PRODUCT NAME:

ECLPENDANTJR FC

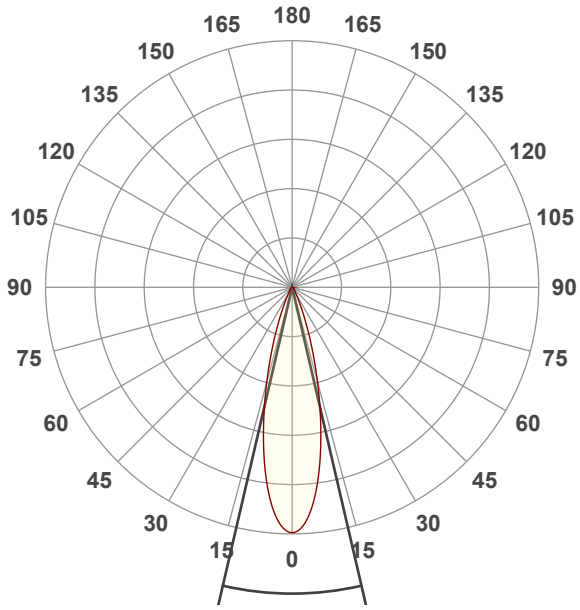
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
5600K

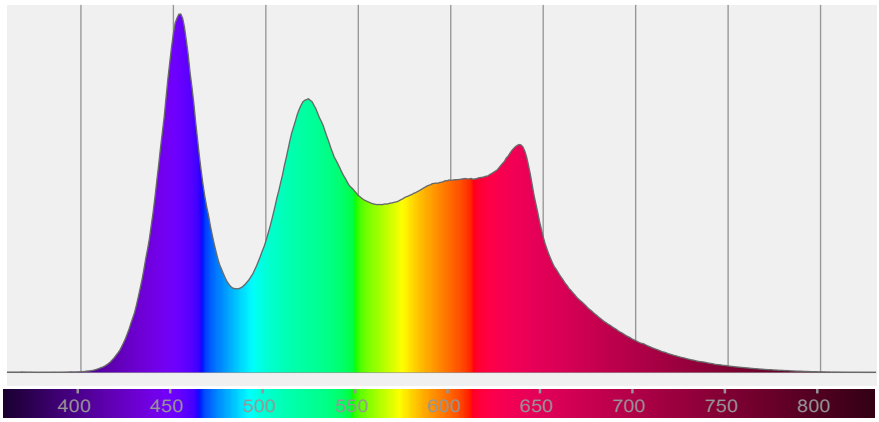
Operator:
Paolo Carvone

Date and time:
18/10/2022 15:58:20

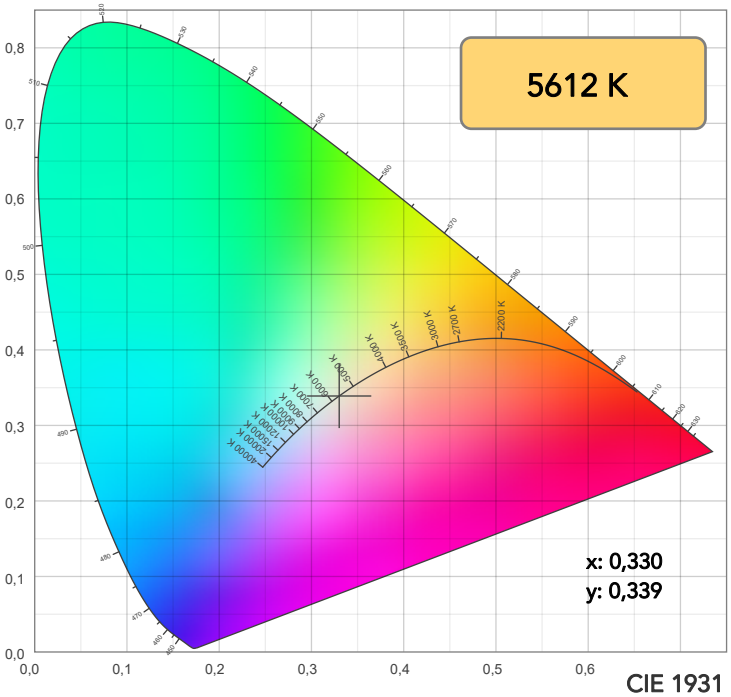


Beam angle 50%: 26,2°
Field angle 10%: 47,1°
Cut off angle 2.5%: 64,8°

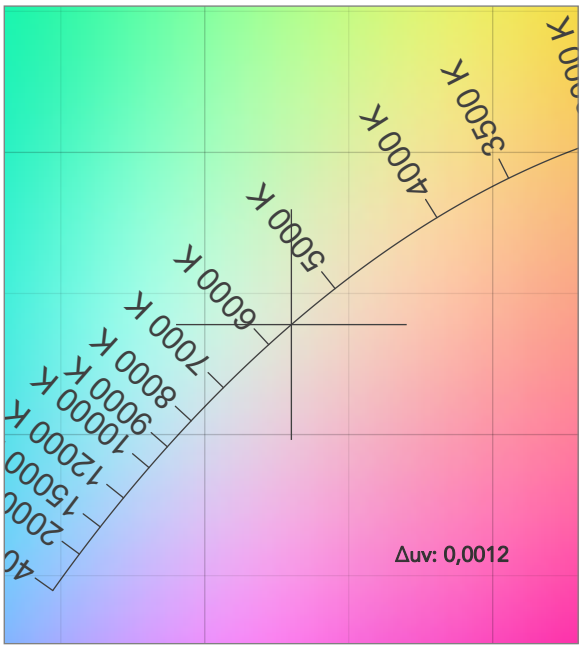
Spectra



COLOR DETAILS

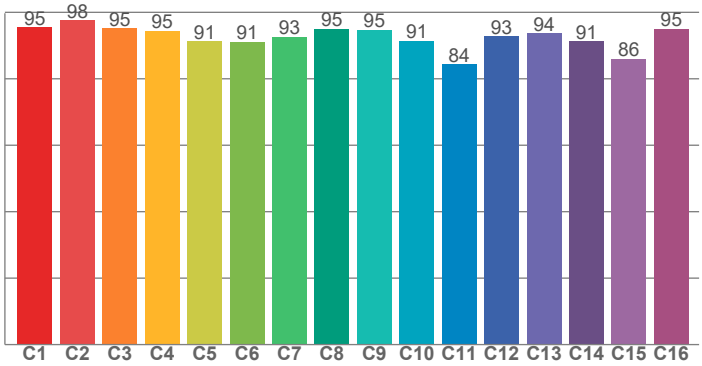


CIE 1931

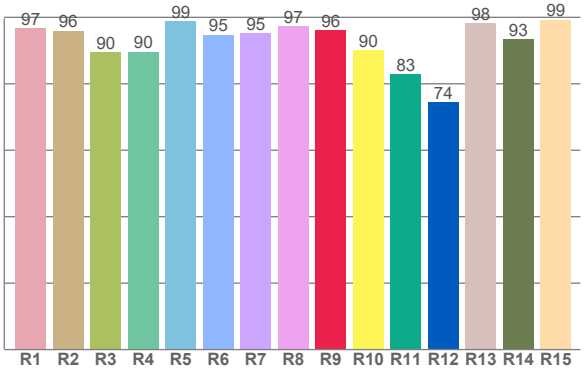


CIE 1931 ZOOM

TM30: 92,4



CRI: 94,8 (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
96,8	96,0	89,5	89,6	98,7	94,8	95,3	97,3	96,1	90,1	82,9	74,4	98,3	93,3	99,3

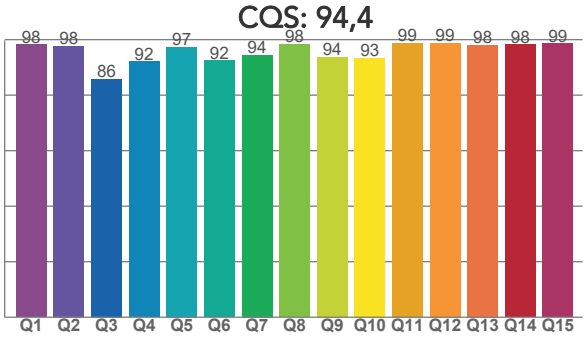
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	97,6	95,2	94,5	91,3	91,1	92,6	95,0	94,6	91,5	84,3	92,7	93,6	91,3	86,1	95,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	97,7	85,8	92,1	97,3	92,4	94,5	98,3	93,8	93,4	98,8	98,8	98,1	98,2	98,6

CQS: 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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5612 K	94,8	96,1	92,4	104,0	94,4	94	0,330	0,339	0,0012

TM30 DETAILS

PROLiGHTS

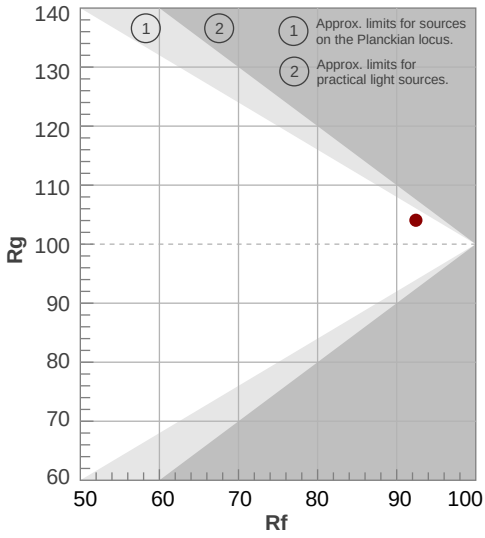
Rf 92,4

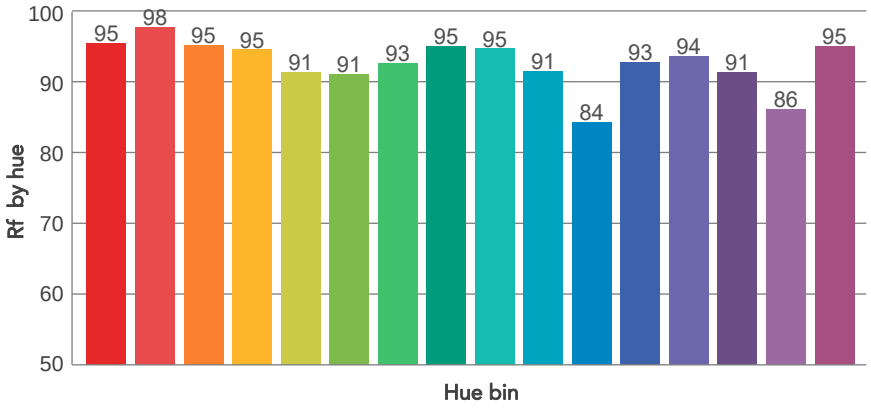
Fidelity index Rf

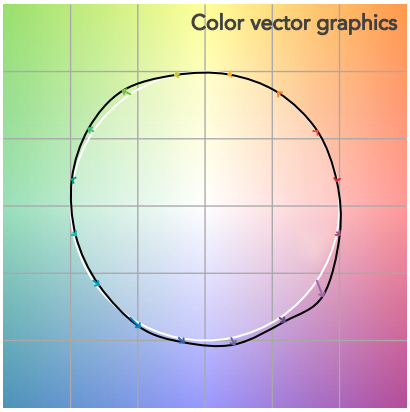
Rg 104,0

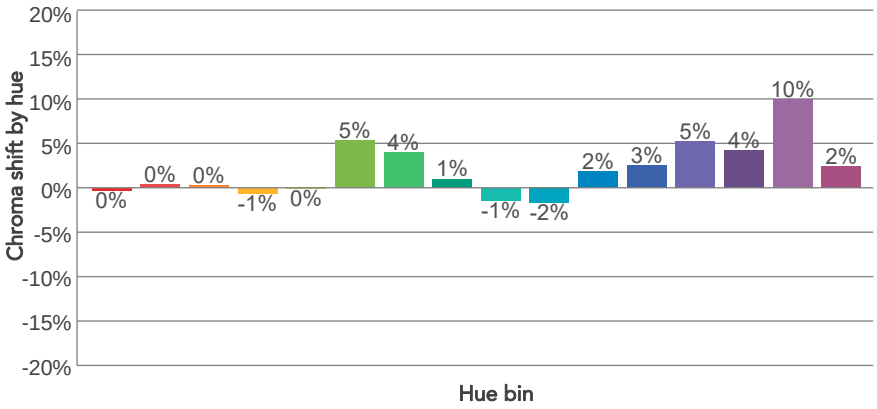
Gammut index

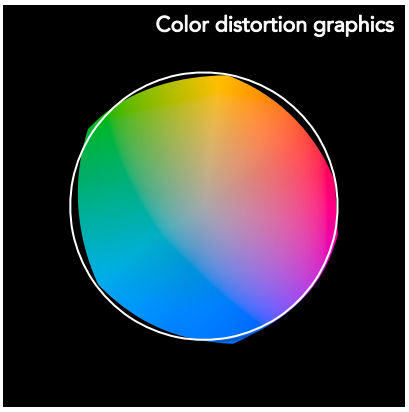
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	-1%
2	98	0%	0%
3	95	0%	2%
4	95	-1%	2%
5	91	0%	3%
6	91	5%	3%
7	93	4%	0%
8	95	1%	0%
9	95	-1%	3%
10	91	-2%	5%
11	84	2%	10%
12	93	3%	4%
13	94	5%	1%
14	91	4%	2%
15	86	10%	-7%
16	95	2%	-1%

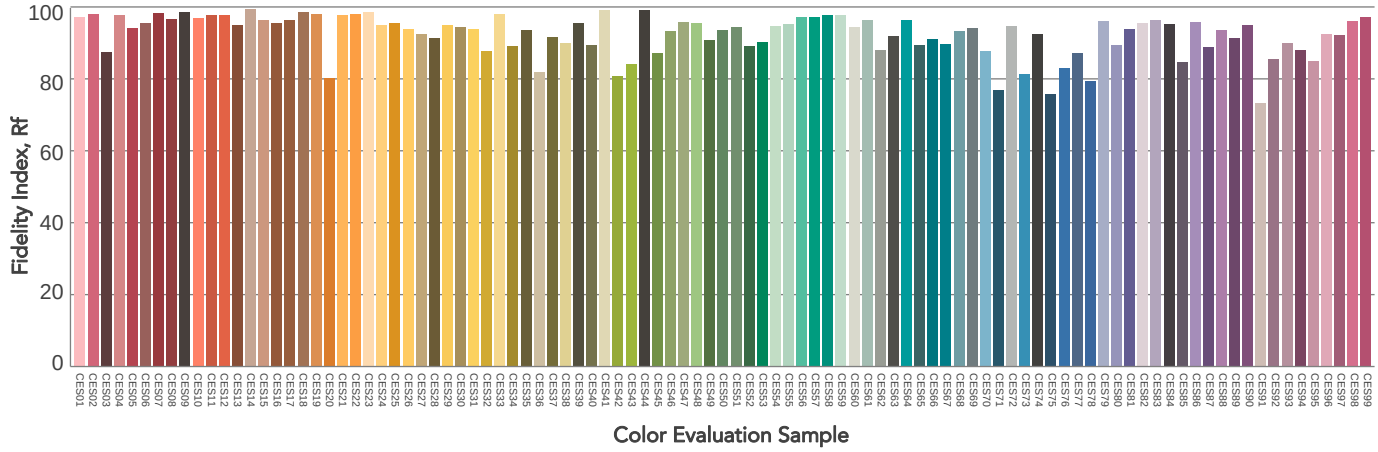












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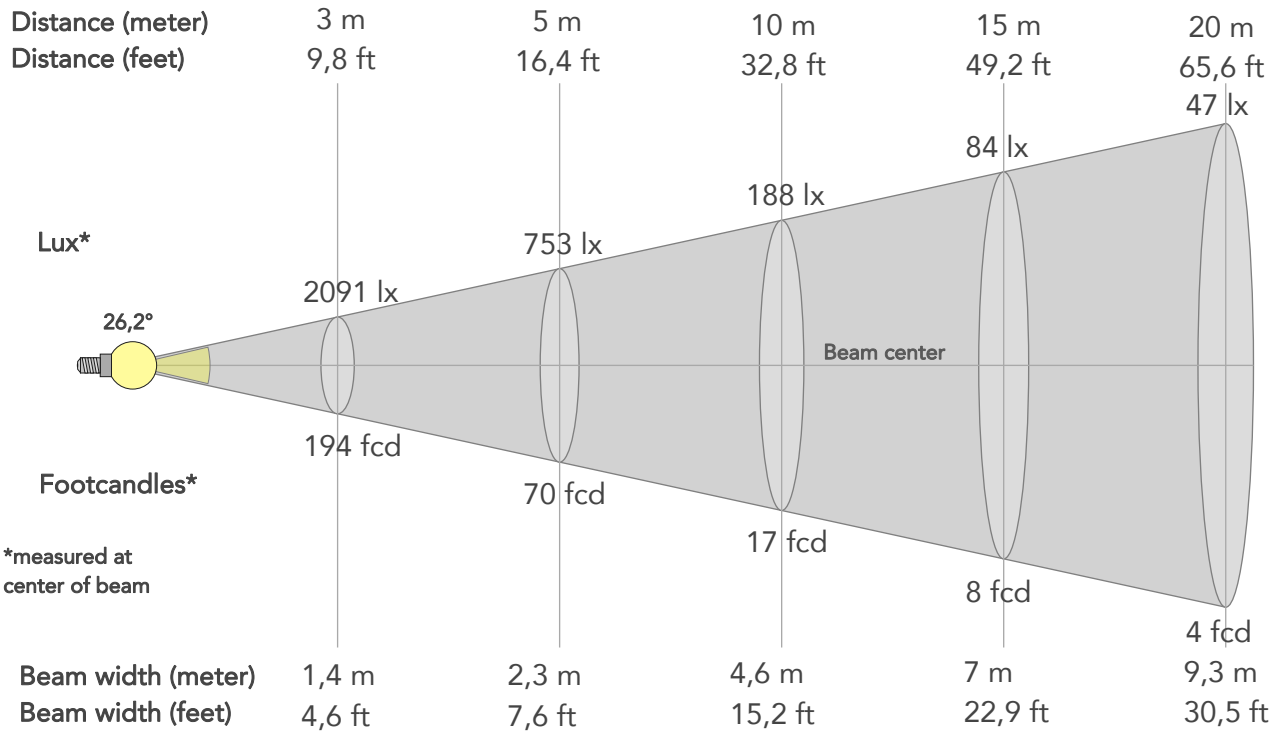
BEAM DETAILS

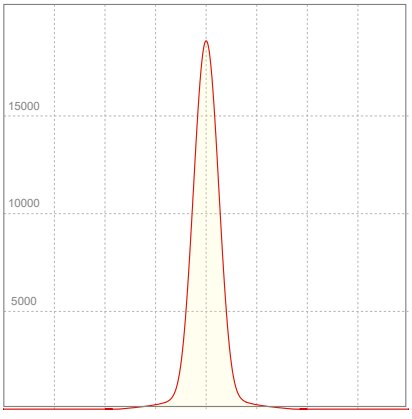
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,2°	47,1°	64,8°	98,2%	94,0%



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	18822lx	4705lx	2091lx	1176lx	753lx	335lx	188lx	84lx	47lx	30lx	21lx	12lx	8lx
Footcand.	1749fcd	437fcd	194fcd	109fcd	70fcd	31fcd	17fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,6m	7m	9,3m	11,6m	13,9m	18,6m	23,2m
Beam wid.	1,5ft	3,1ft	4,6ft	6,1ft	7,6ft	11,4ft	15,2ft	22,9ft	30,5ft	38,1ft	45,7ft	61ft	76,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,489A	102,5W	48lm/W

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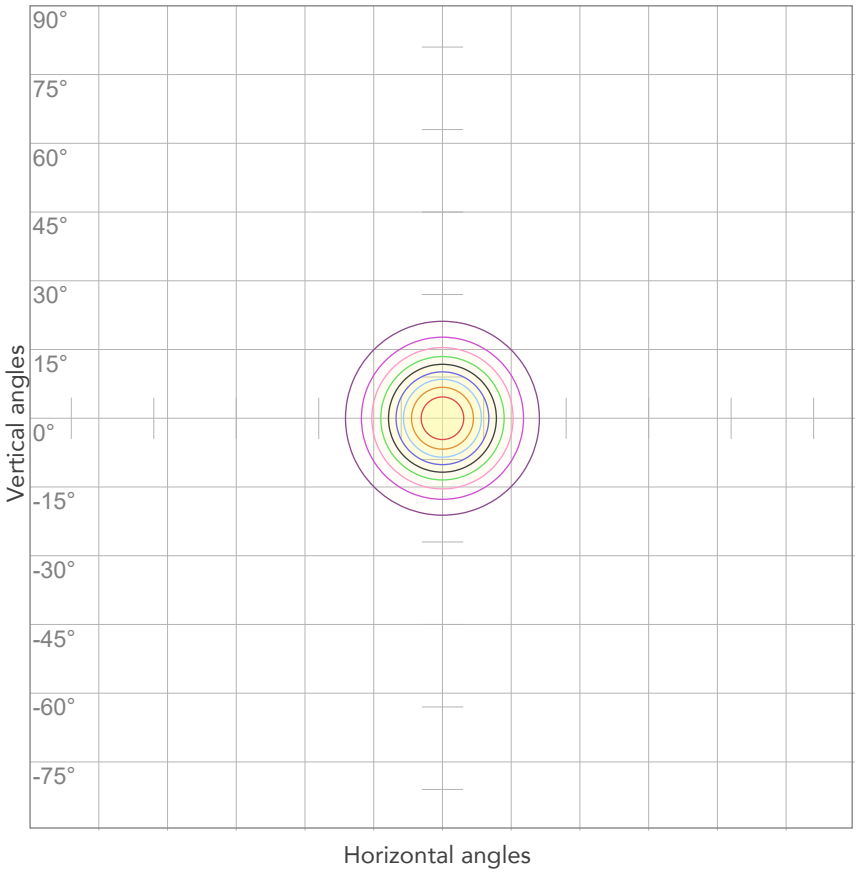
ISO DIAGRAMS

ISO CANDELA DIAGRAM



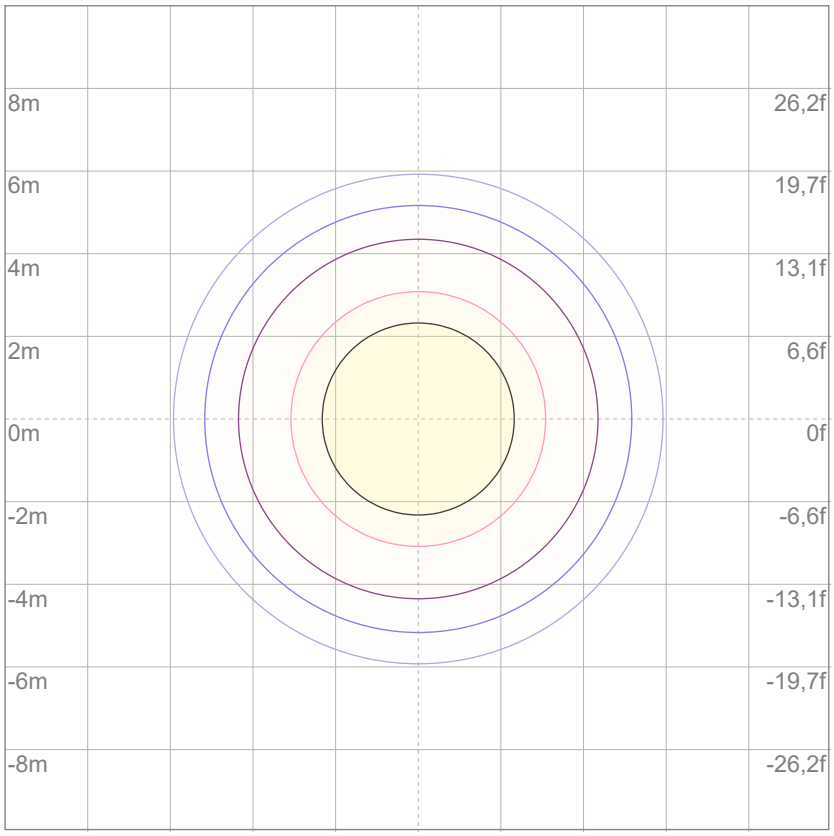
10%	1882 cd
20%	3764 cd
30%	5647 cd
40%	7529 cd
50%	9411 cd
60%	11293 cd
70%	13175 cd
80%	15057 cd

Conditions:

Number of c-planes: 2

Candela at center: 18822 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,65 lx
5%	9,41 lx
10%	18,8 lx
30%	56,5 lx
50%	94,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 188 lx

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

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Total lumen output:

4727 lm

Peak candela output:

8668 cd

Light quality:

CRI: 95,0

Color temperature:

5612 K

PRODUCT NAME:

ECLPENDANTJR FC

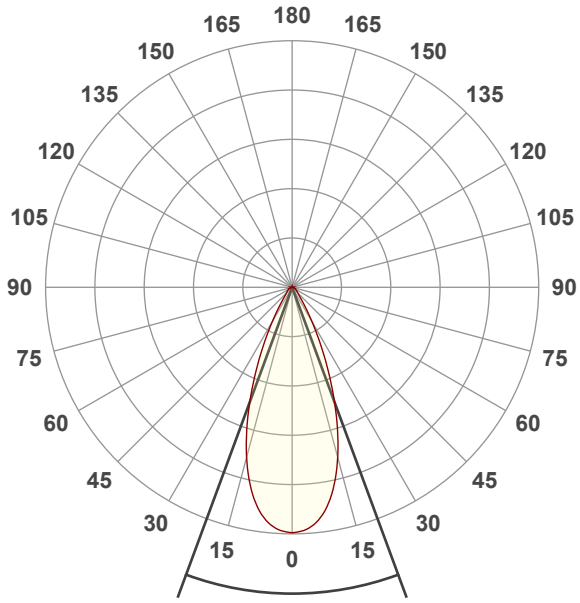
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
5600K

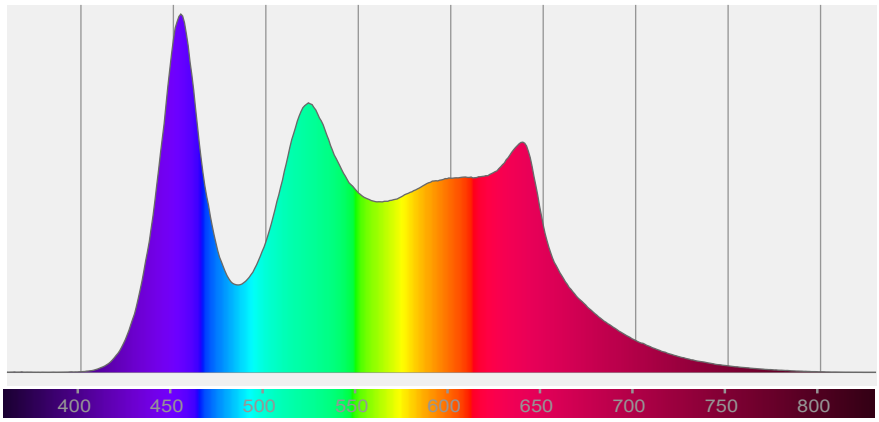
Operator:
Paolo Carvone

Date and time:
18/10/2022 17:06:59

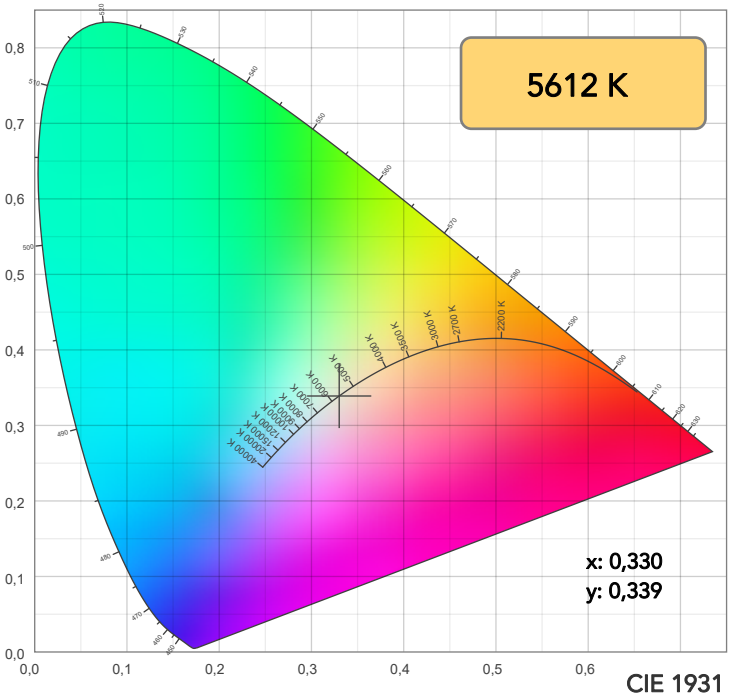


Beam angle 50%: 40,5°
Field angle 10%: 66,9°
Cut off angle 2.5%: 101,9°

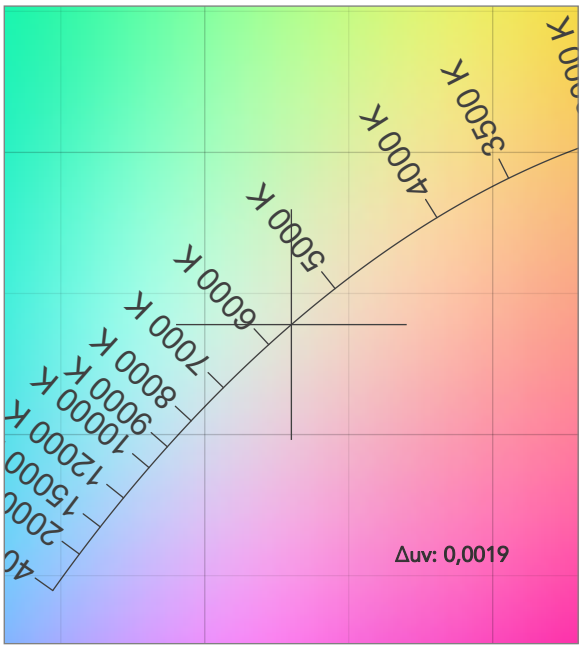
Spectra



COLOR DETAILS

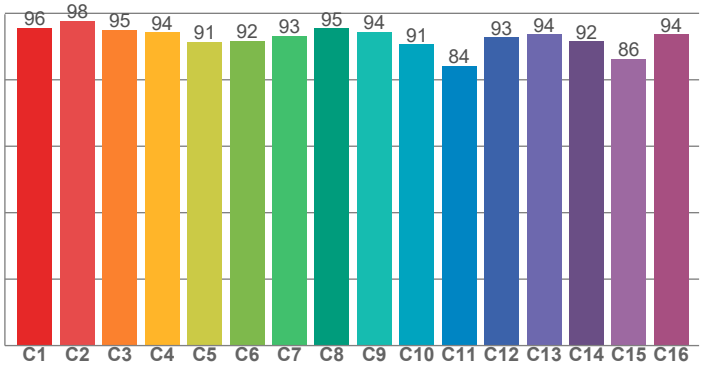


CIE 1931

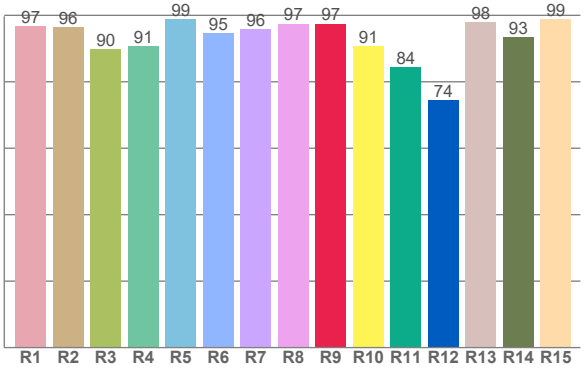


CIE 1931 ZOOM

TM30: 92,5



CRI: 95,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,6	96,4	89,7	90,6	98,9	94,7	95,8	97,5	97,5	90,6	84,3	74,3	98,0	93,4	98,8

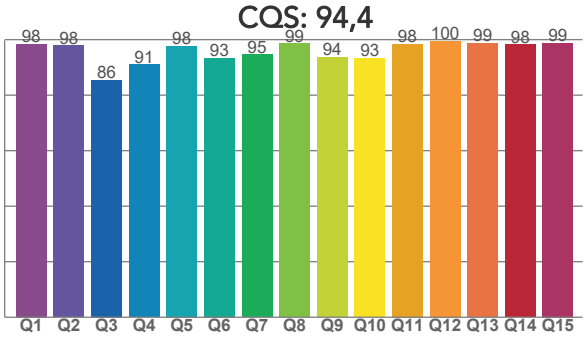
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,7	97,8	95,0	94,3	91,4	91,7	93,2	95,5	94,4	90,7	84,1	92,8	93,7	91,6	86,3	93,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	97,8	85,5	91,1	97,6	93,4	94,6	98,6	93,7	93,3	98,5	99,5	98,7	98,2	98,8

CQS: 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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5612 K	95,0	97,5	92,5	103,9	94,4	95	0,330	0,339	0,0019

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TM30 DETAILS

PROLiGHTS

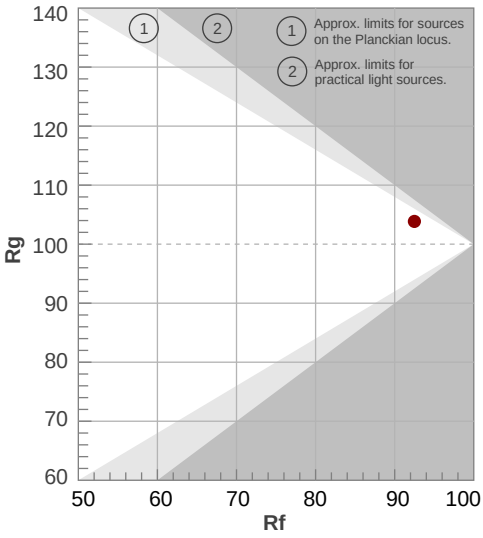
Rf 92,5

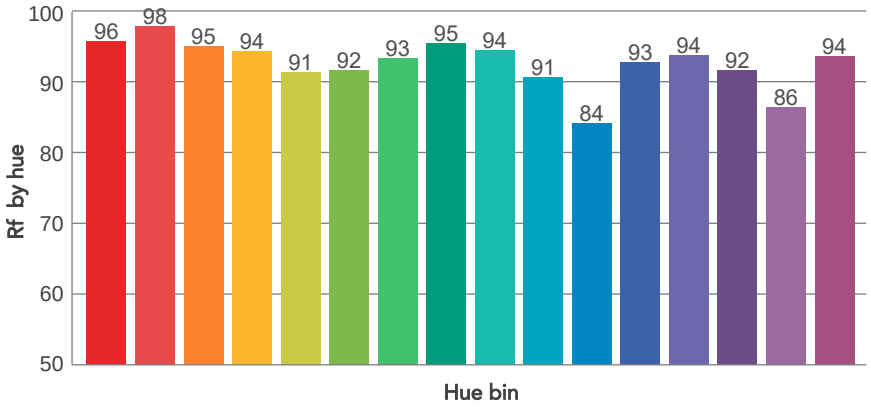
Fidelity index Rf

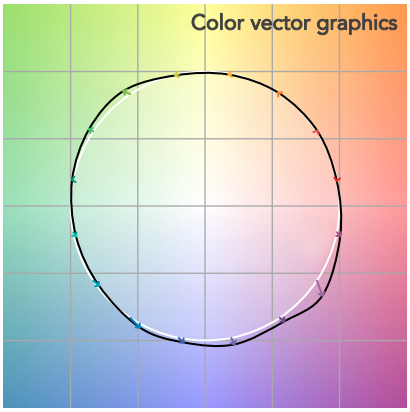
Rg 103,9

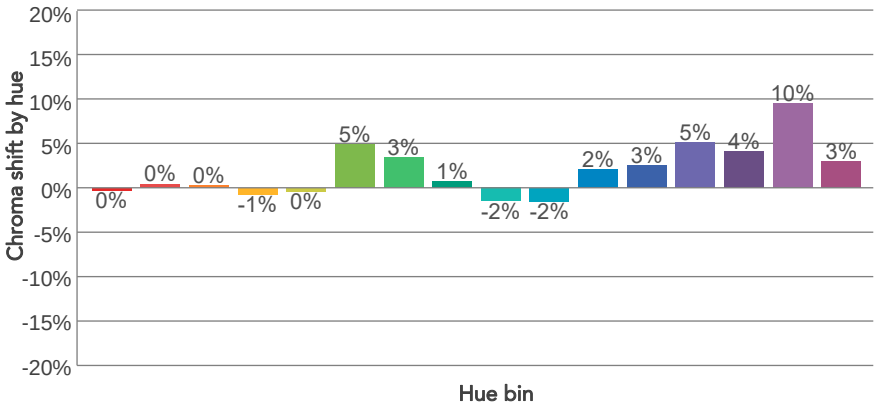
Gammut index

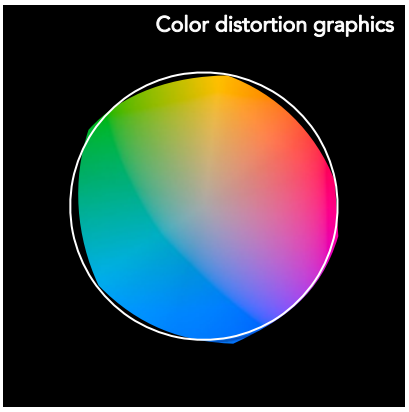
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	-1%
2	98	0%	0%
3	95	0%	2%
4	94	-1%	2%
5	91	0%	3%
6	92	5%	3%
7	93	3%	0%
8	95	1%	0%
9	94	-2%	3%
10	91	-2%	6%
11	84	2%	10%
12	93	3%	4%
13	94	5%	1%
14	92	4%	1%
15	86	10%	-7%
16	94	3%	-2%

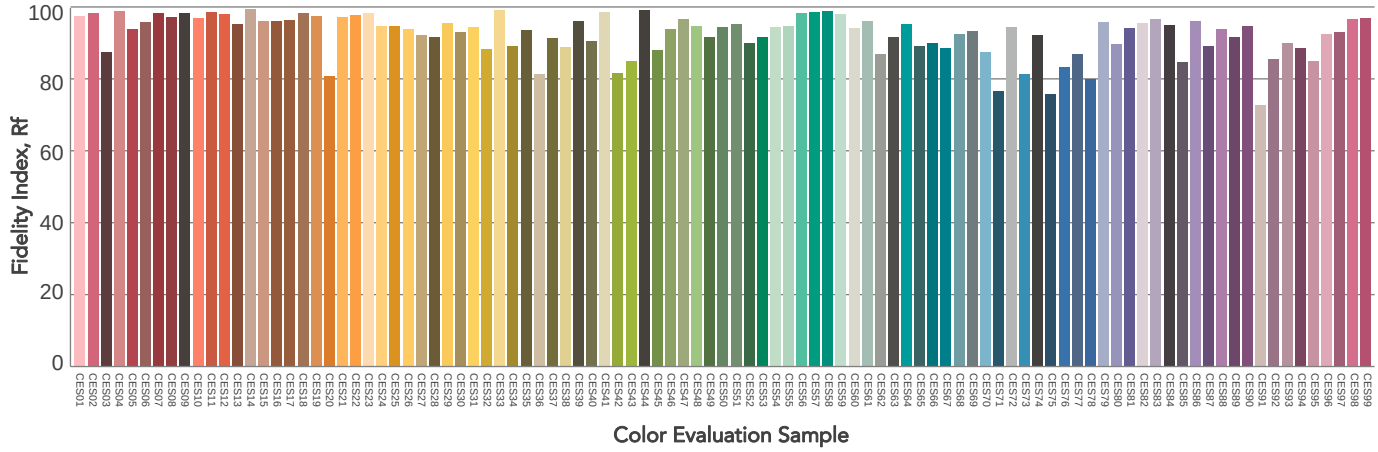












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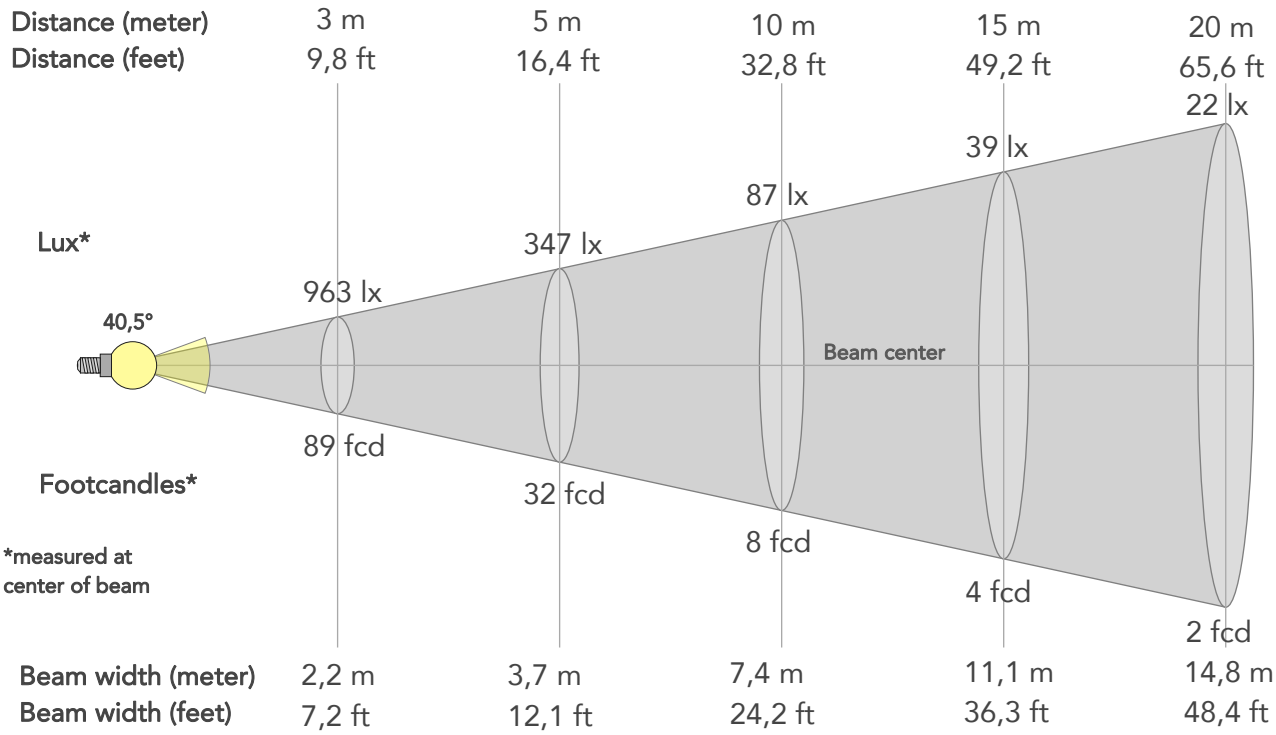
BEAM DETAILS

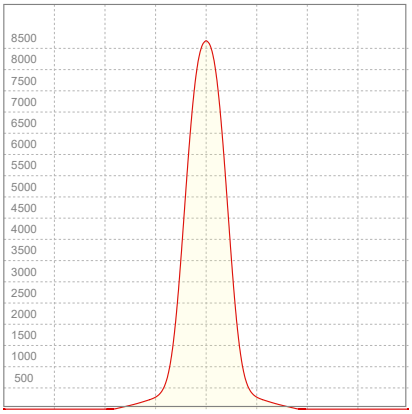
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,5°	66,9°	101,9°	96,8%	91,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	8668lx	2167lx	963lx	542lx	347lx	154lx	87lx	39lx	22lx	14lx	10lx	5lx	3lx
Footcand.	805fcd	201fcd	89fcd	50fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	3m	3,7m	5,5m	7,4m	11,1m	14,8m	18,5m	22,1m	29,5m	36,9m
Beam wid.	2,4ft	4,9ft	7,2ft	9,7ft	12,1ft	18,2ft	24,2ft	36,3ft	48,4ft	60,5ft	72,6ft	96,8ft	121ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,481A	99,5W	48lm/W

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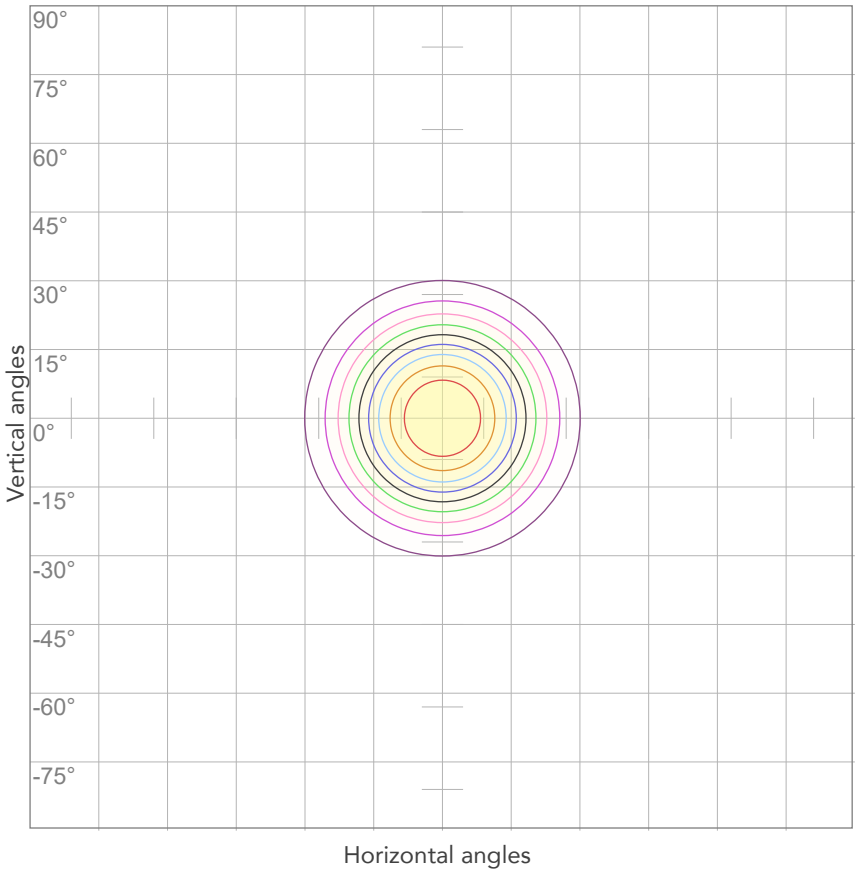
ISO DIAGRAMS

ISO CANDELA DIAGRAM



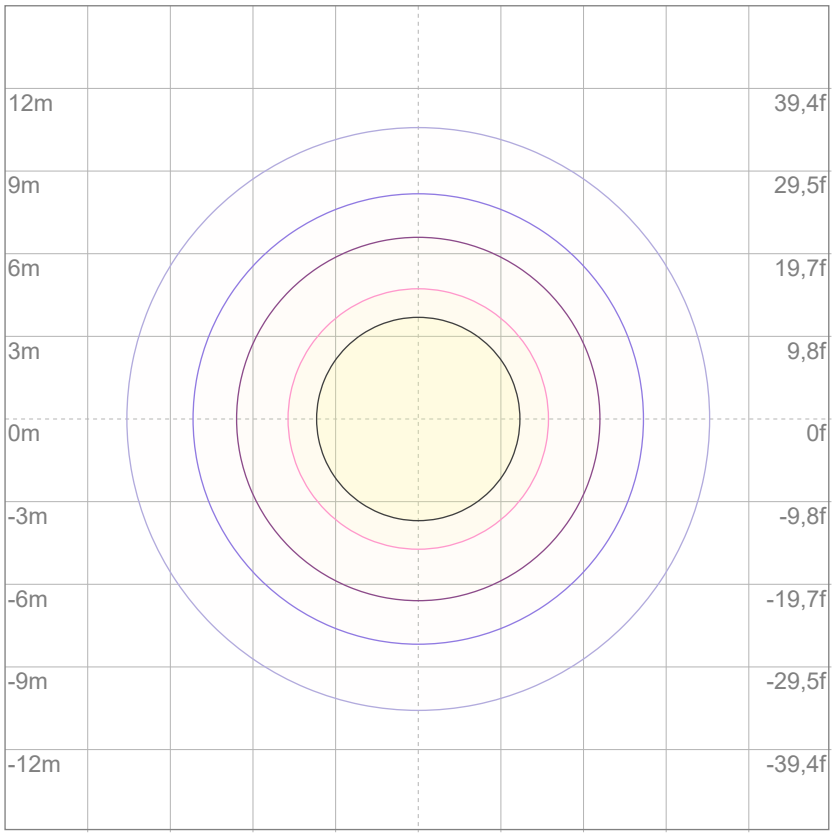
10%	867 cd
20%	1734 cd
30%	2600 cd
40%	3467 cd
50%	4334 cd
60%	5201 cd
70%	6068 cd
80%	6934 cd

Conditions:

Number of c-planes: 2

Candela at center: 8668 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,60 lx
5%	4,33 lx
10%	8,67 lx
30%	26,0 lx
50%	43,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 86,7 lx

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

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Total lumen output:

4884 lm

Peak candela output:

5698 cd

Light quality:

CRI: 94,9

Color temperature:

5612 K

PRODUCT NAME:

ECLPENDANTJR FC

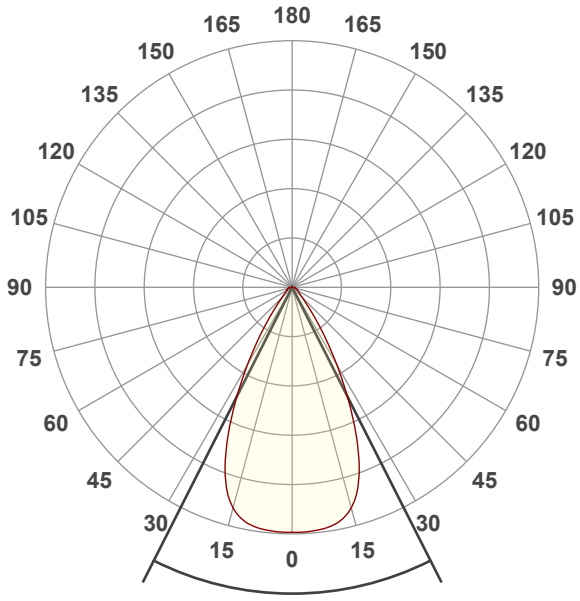
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
5600K

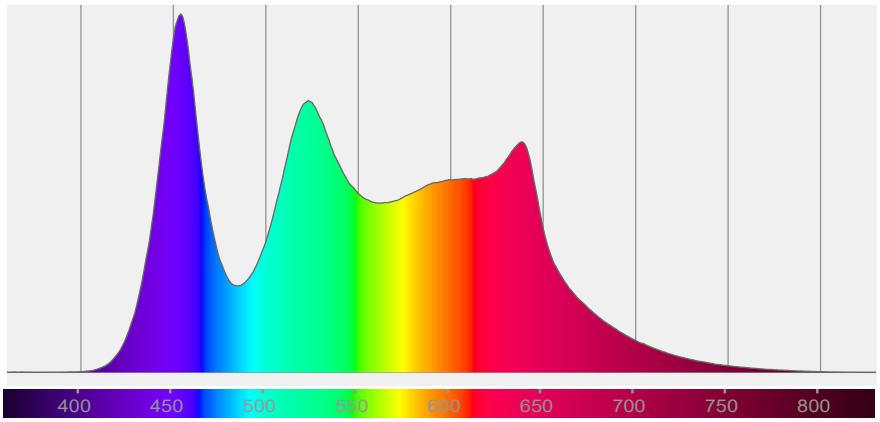
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:57:27

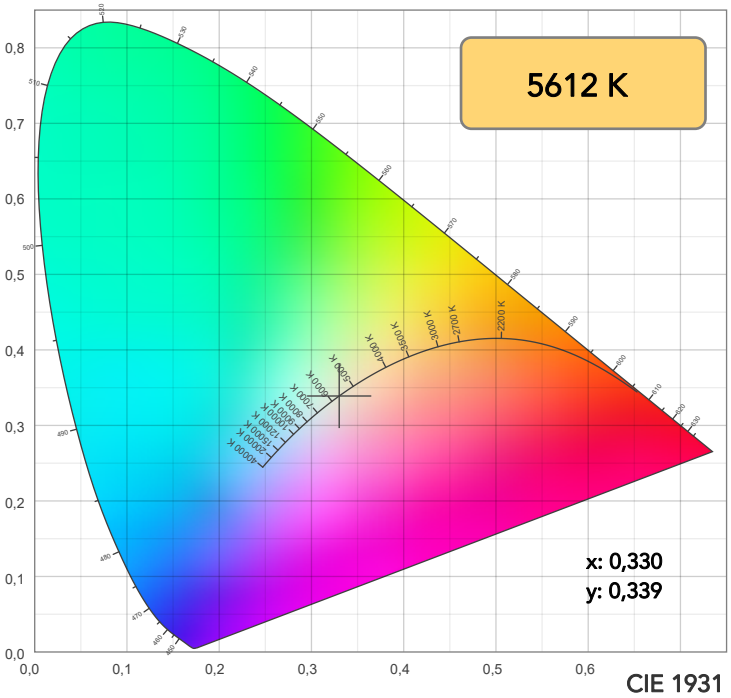


Beam angle 50%: 53,7°
Field angle 10%: 80,3°
Cut off angle 2.5%: 122,3°

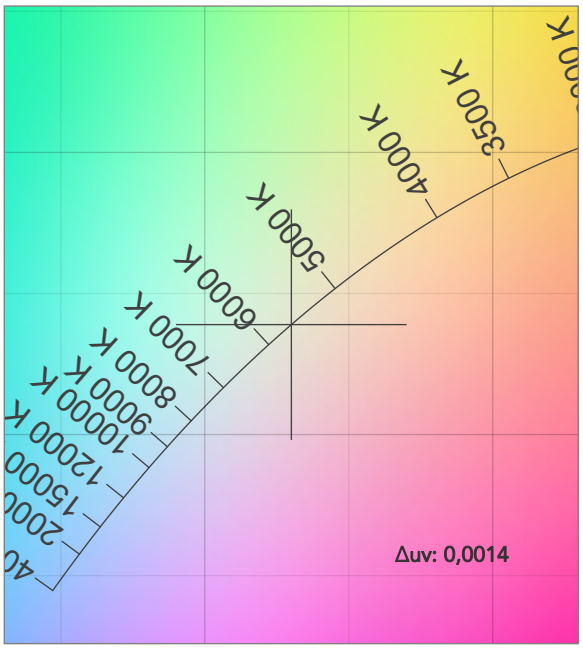
Spectra



COLOR DETAILS

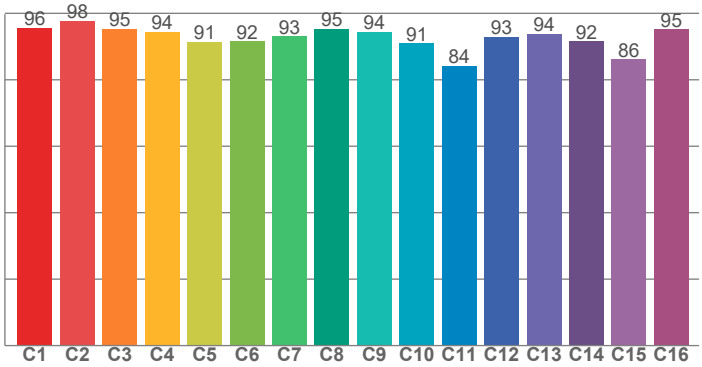


CIE 1931

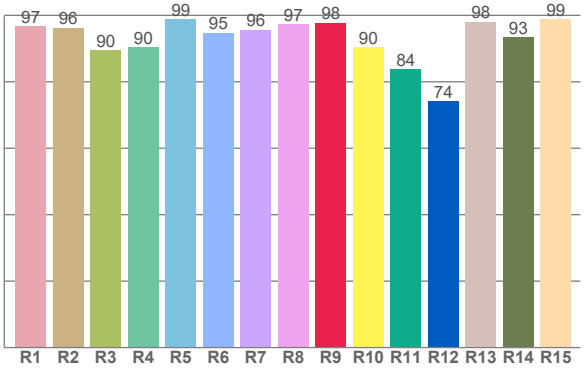


CIE 1931 ZOOM

TM30: 92,5



CRI: 94,9 (R1-R8)



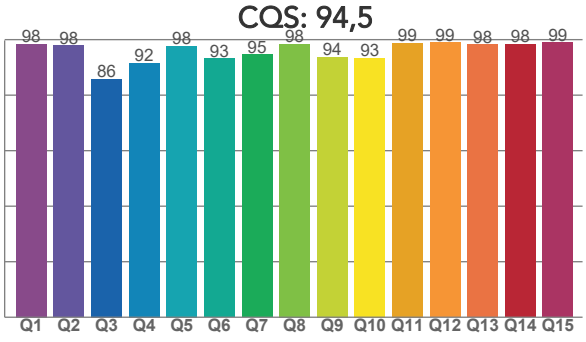
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,7	96,3	89,6	90,3	98,9	94,8	95,7	97,3	97,7	90,4	83,8	74,2	98,1	93,3	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
95,6	97,7	95,3	94,4	91,4	91,5	93,0	95,3	94,5	90,9	84,2	92,8	93,7	91,5	86,1	95,2

CQS: 94,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	97,9	85,7	91,6	97,6	93,1	94,6	98,4	93,7	93,5	98,7	98,9	98,2	98,3	98,9

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5612 K	94,9	97,7	92,5	103,9	94,5	95	0,330	0,339	0,0014

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TM30 DETAILS

PROLiGHTS

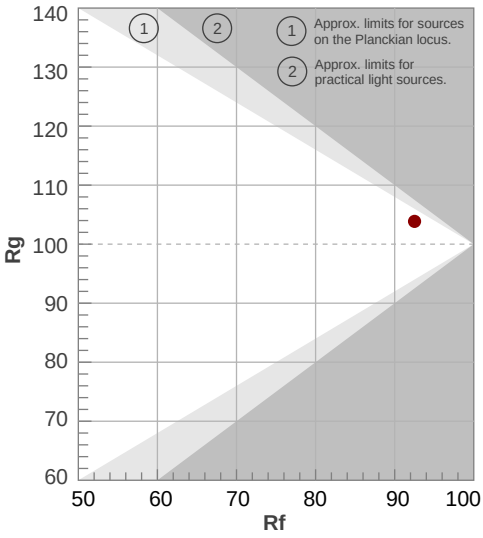
Rf 92,5

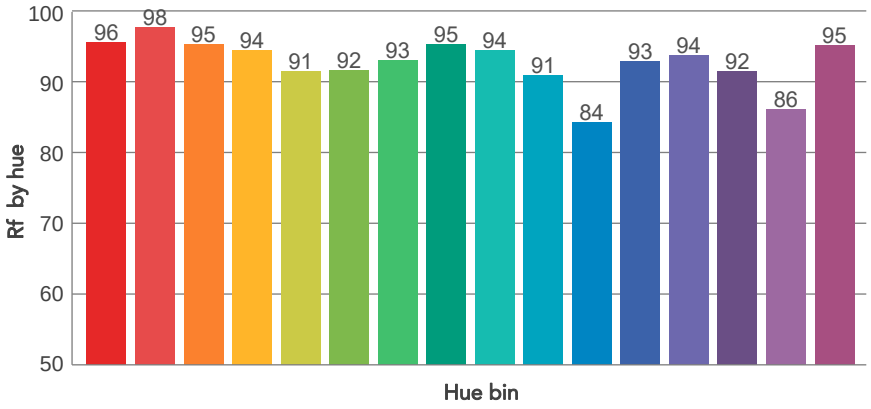
Fidelity index Rf

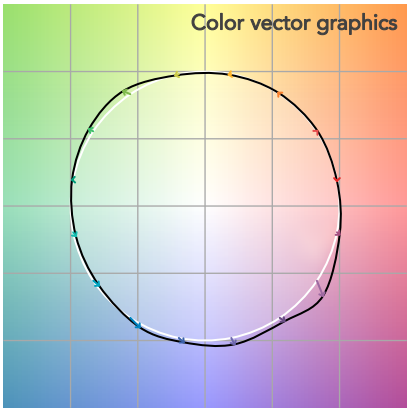
Rg 103,9

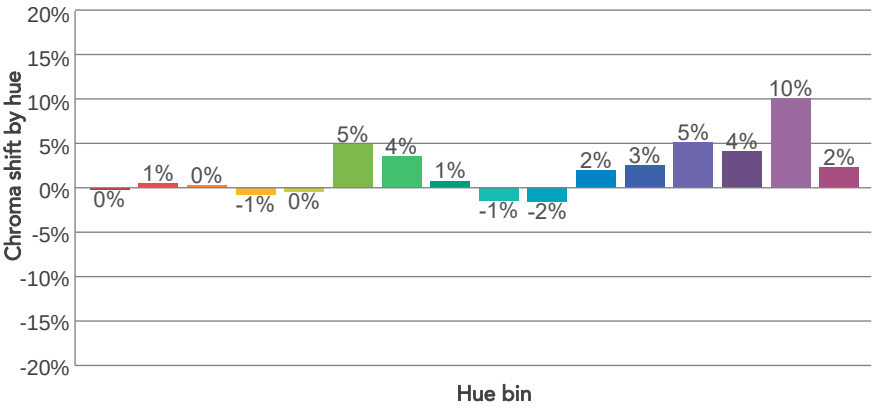
Gammut index

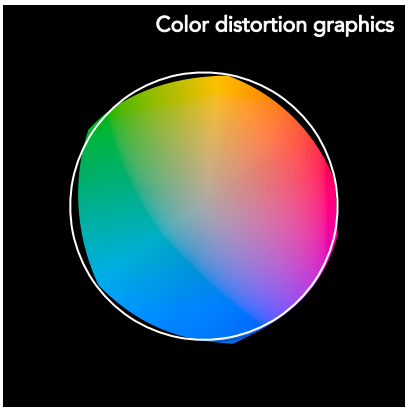
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	-1%
2	98	1%	0%
3	95	0%	2%
4	94	-1%	2%
5	91	0%	3%
6	92	5%	3%
7	93	4%	0%
8	95	1%	0%
9	94	-1%	3%
10	91	-2%	5%
11	84	2%	10%
12	93	3%	4%
13	94	5%	1%
14	92	4%	2%
15	86	10%	-7%
16	95	2%	-1%

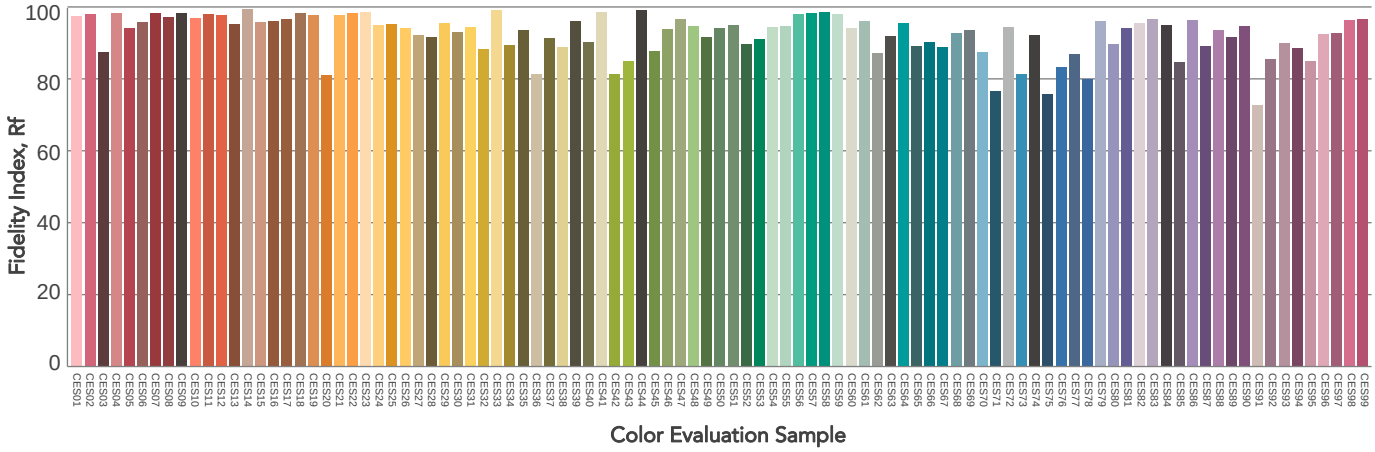












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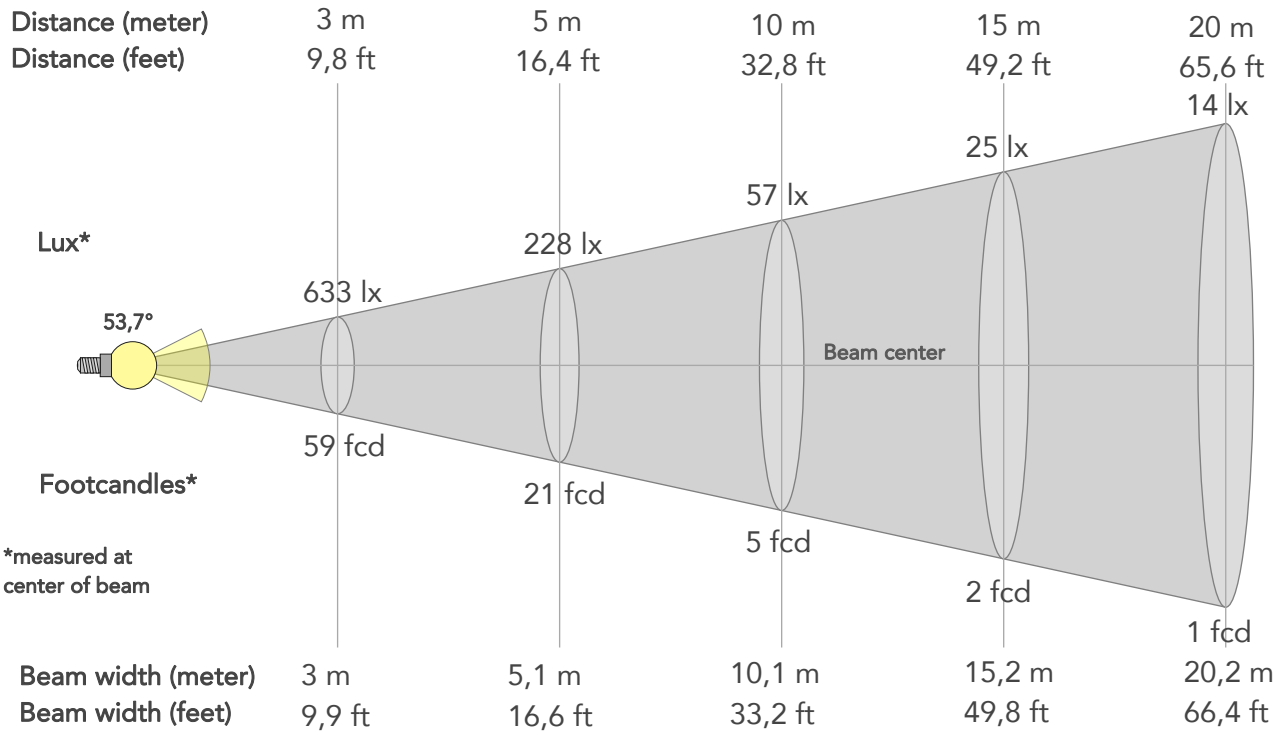
BEAM DETAILS

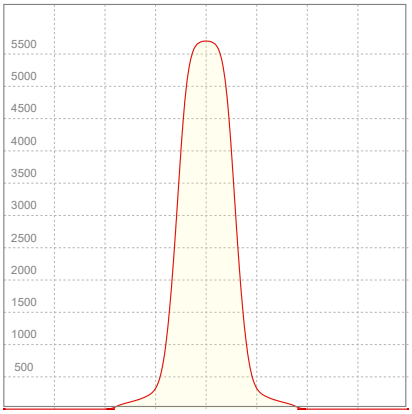
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,7°	80,3°	122,3°	95,7%	90,1%



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	5698lx	1425lx	633lx	356lx	228lx	101lx	57lx	25lx	14lx	9lx	6lx	4lx	2lx
Footcand.	529fcd	132fcd	59fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,4m	40,5m	50,6m
Beam wid.	3,3ft	6,7ft	9,9ft	13,3ft	16,6ft	24,9ft	33,2ft	49,8ft	66,4ft	83ft	99,6ft	132,8ft	166ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,491A	101,6W	48lm/W

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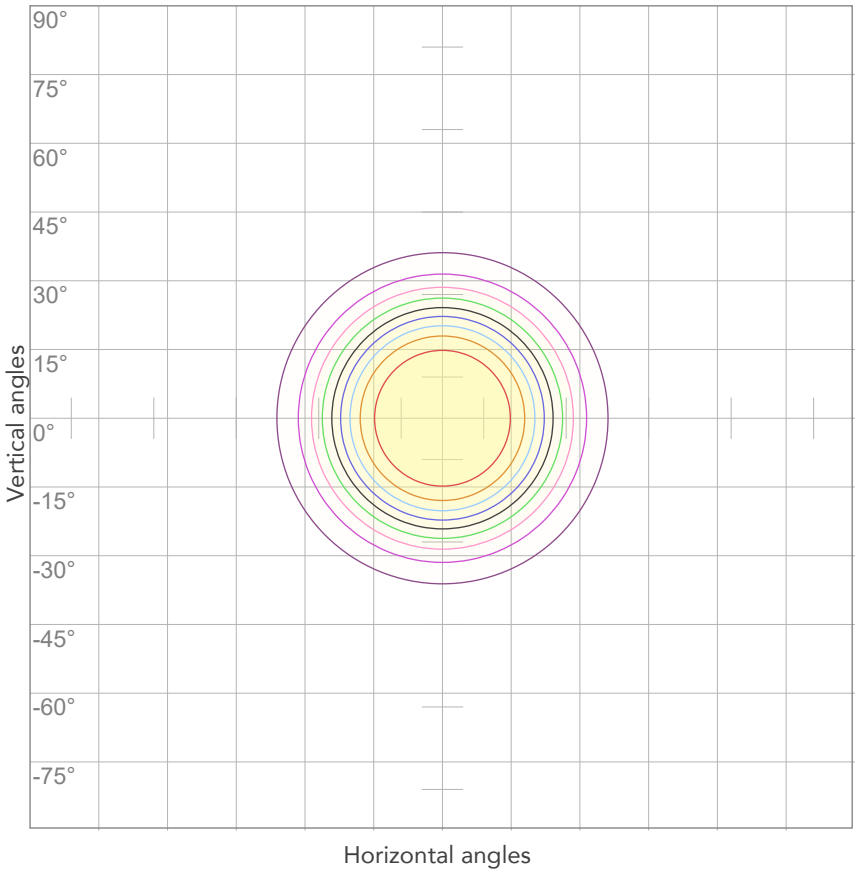
ISO DIAGRAMS

ISO CANDELA DIAGRAM



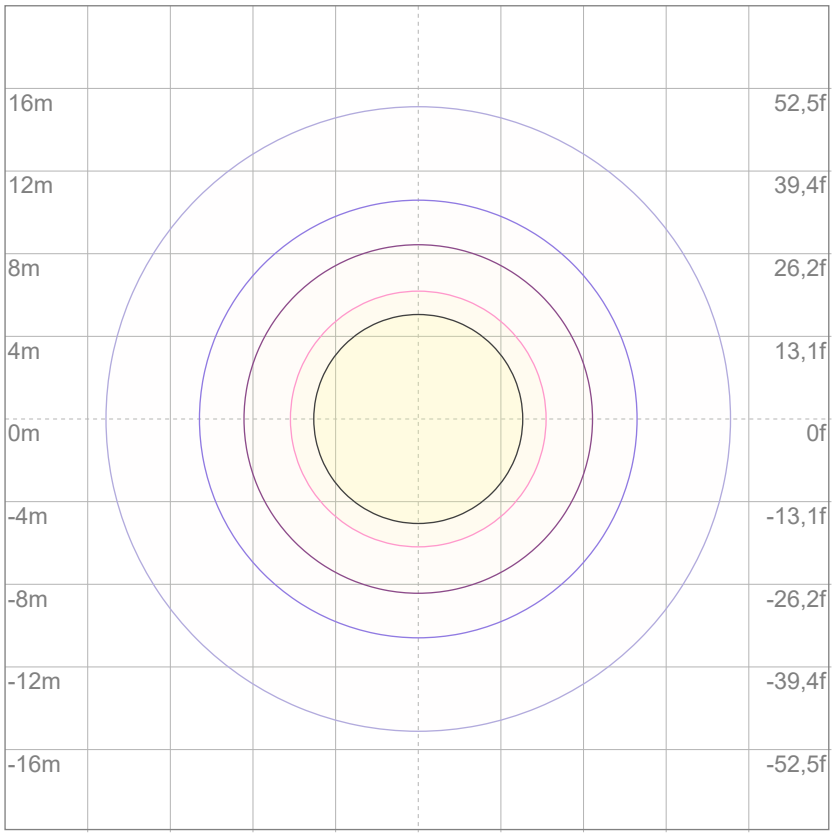
10%	570 cd
20%	1140 cd
30%	1709 cd
40%	2279 cd
50%	2849 cd
60%	3419 cd
70%	3989 cd
80%	4559 cd

Conditions:

Number of c-planes: 2

Candela at center: 5698 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,71 lx
5%	2,85 lx
10%	5,70 lx
30%	17,1 lx
50%	28,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 57,0 lx

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

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Total lumen output:

4854 lm

Peak candela output:

18967 cd

Light quality:

CRI: 94,9

Color temperature:

6002 K

PRODUCT NAME:

ECLPENDANTJR FC

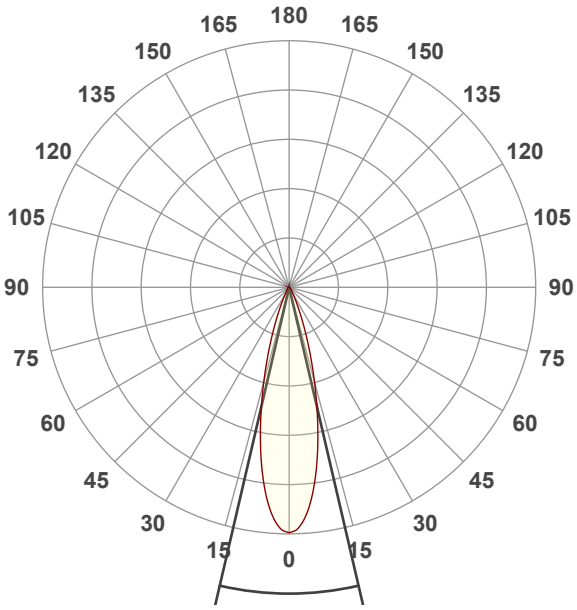
MEASURAMENT CONDITIONS:

Beam angle:
20°

Target:
6000K

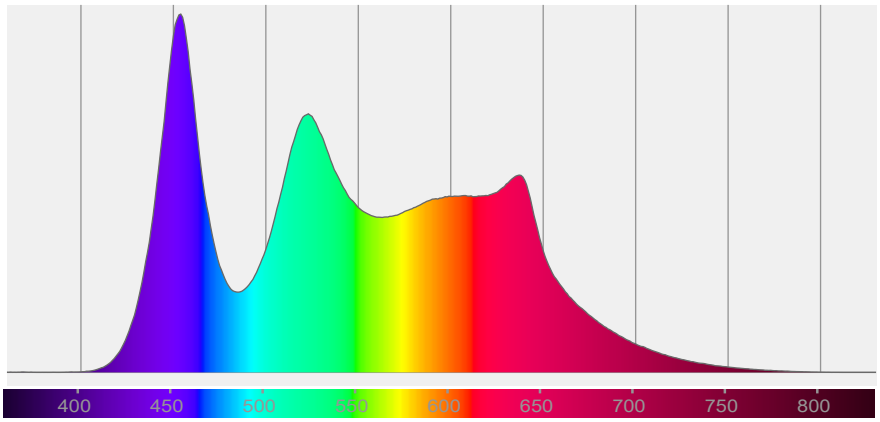
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:00:03

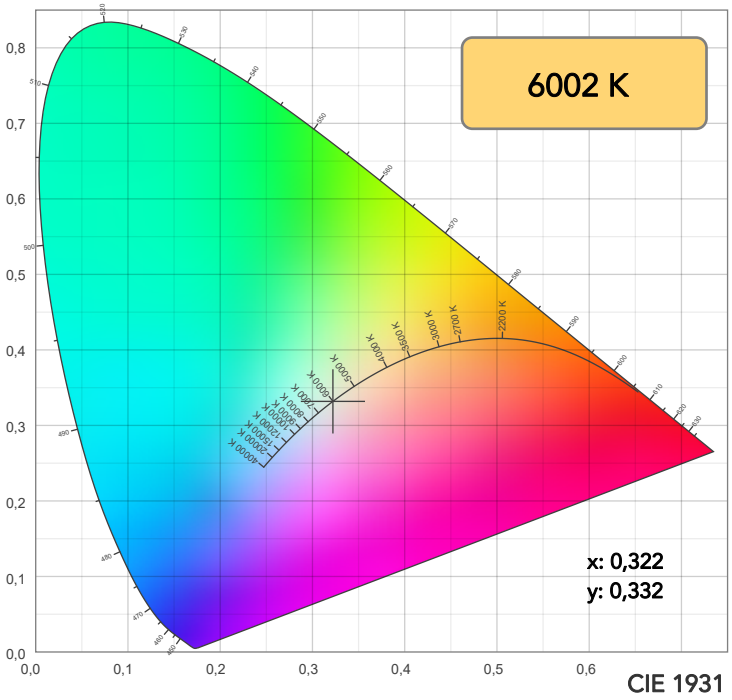


Beam angle 50%: 26,2°
Field angle 10%: 47,2°
Cut off angle 2.5%: 64°

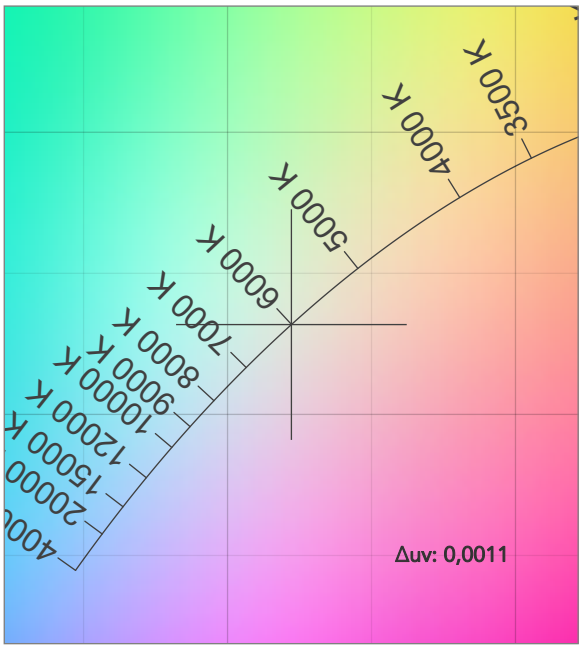
Spectra



COLOR DETAILS

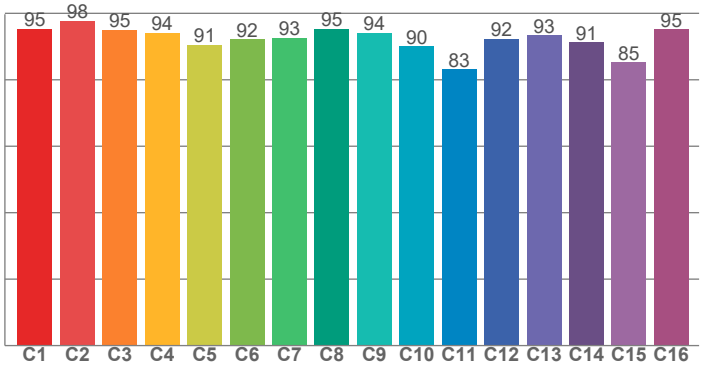


CIE 1931

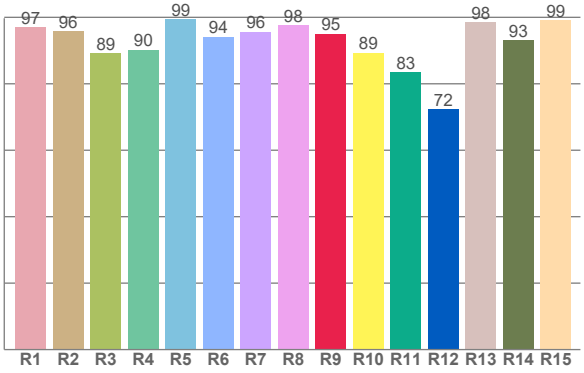


CIE 1931 ZOOM

TM30: 92,2



CRI: 94,9 (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
97,0	95,8	89,2	90,2	99,4	94,2	95,6	97,6	95,1	89,4	83,4	72,3	98,5	93,2	99,0

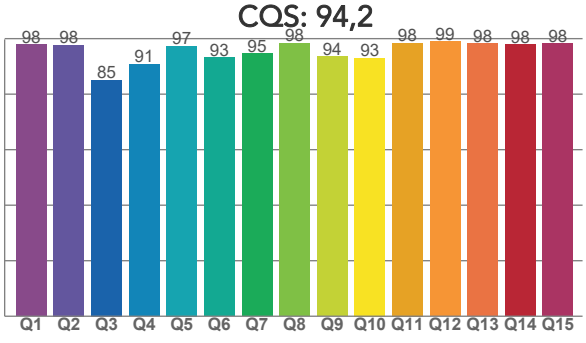
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	97,7	95,0	94,1	90,5	92,2	92,6	95,2	94,1	90,1	83,1	92,4	93,4	91,3	85,3	95,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,8	97,7	85,2	90,8	97,4	93,2	94,7	98,3	93,5	93,1	98,5	99,0	98,2	97,9	98,3

CQS: 94,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6002 K	94,9	95,1	92,2	103,8	94,2	94	0,322	0,332	0,0011

TM30 DETAILS

PROLiGHTS

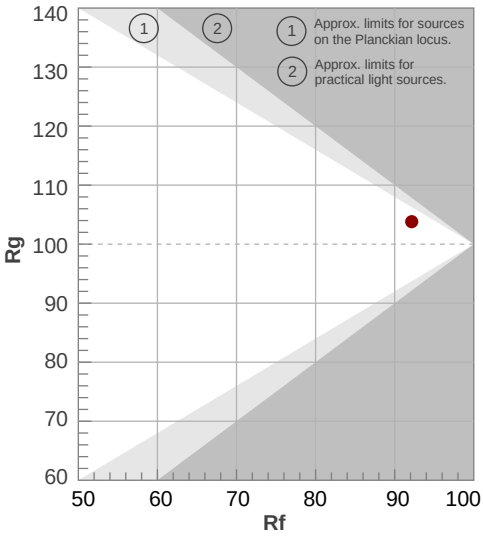
Rf 92,2

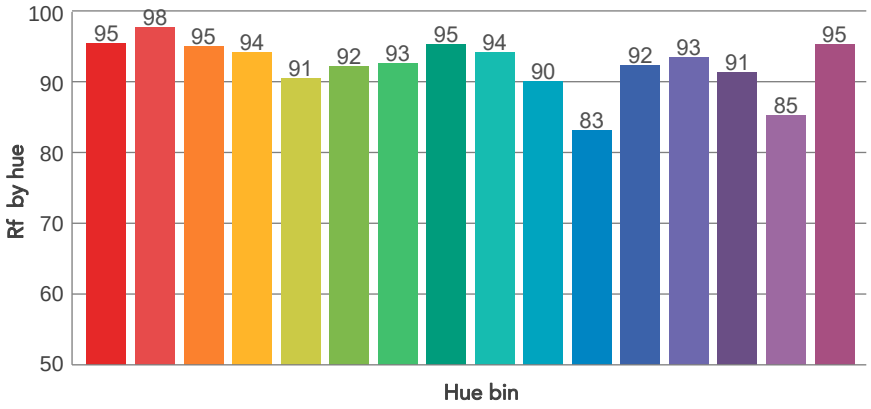
Fidelity index Rf

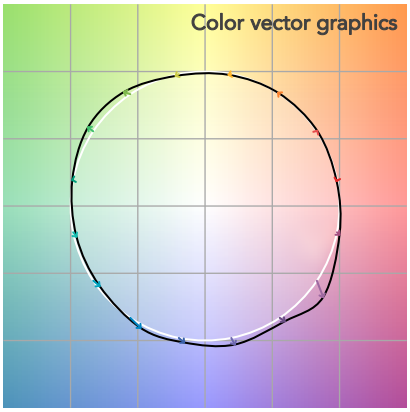
Rg 103,8

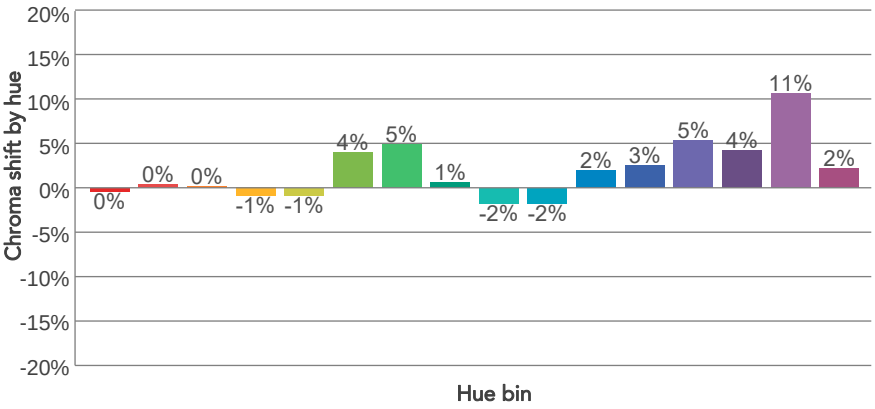
Gammut index

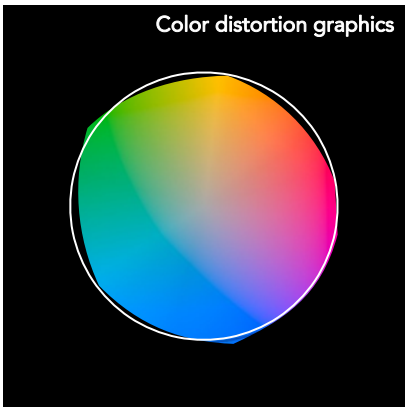
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	-1%
2	98	0%	0%
3	95	0%	2%
4	94	-1%	2%
5	91	-1%	3%
6	92	4%	3%
7	93	5%	0%
8	95	1%	0%
9	94	-2%	4%
10	90	-2%	6%
11	83	2%	10%
12	92	3%	4%
13	93	5%	2%
14	91	4%	2%
15	85	11%	-7%
16	95	2%	-1%

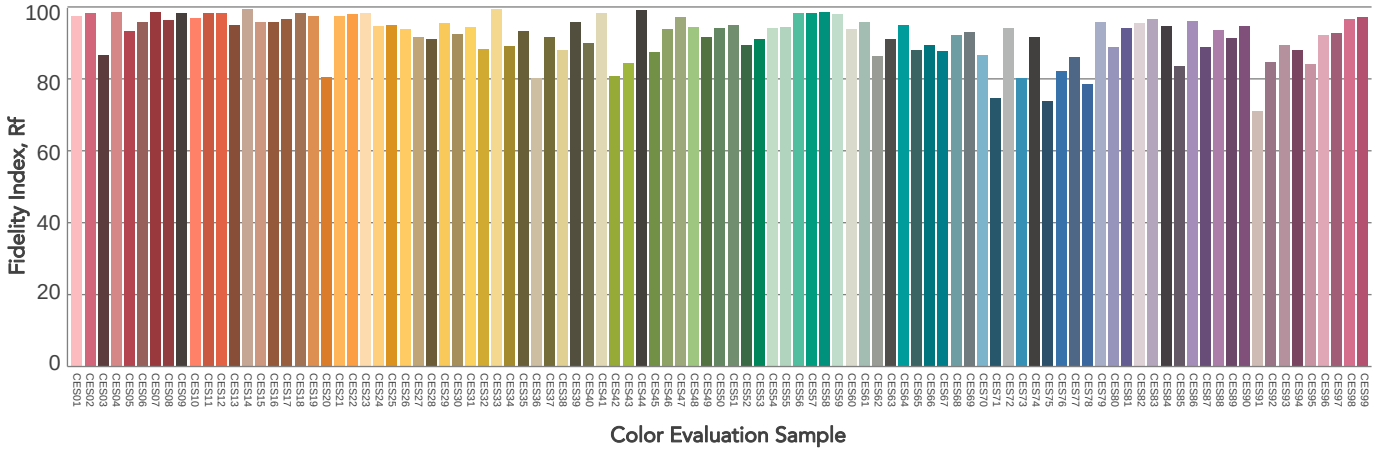












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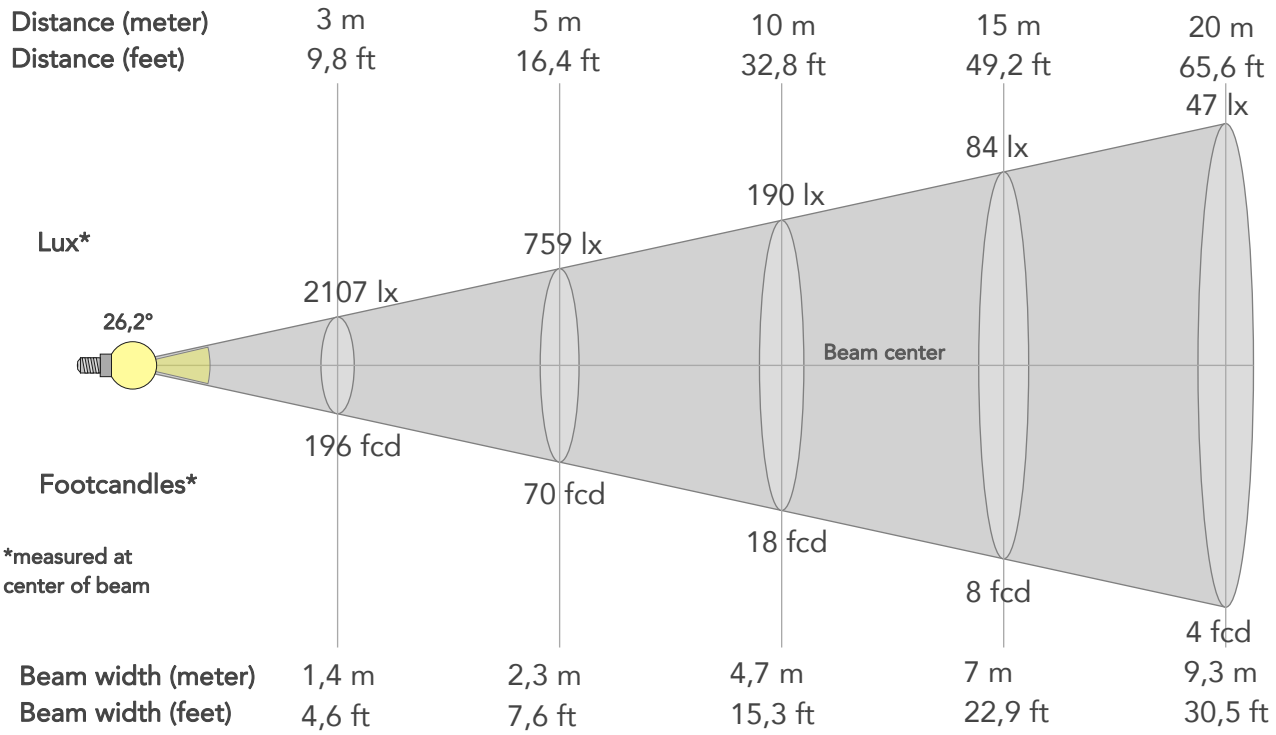
BEAM DETAILS

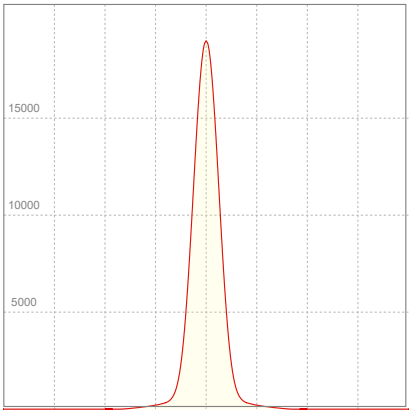
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,2°	47,2°	64°	98,8%	95,1%



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	18967lx	4742lx	2107lx	1185lx	759lx	337lx	190lx	84lx	47lx	30lx	21lx	12lx	8lx
Footcand.	1762fcd	441fcd	196fcd	110fcd	70fcd	31fcd	18fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,9m	2,3m	3,5m	4,7m	7m	9,3m	11,6m	14m	18,6m	23,3m
Beam wid.	1,5ft	3,1ft	4,6ft	6,1ft	7,6ft	11,4ft	15,3ft	22,9ft	30,5ft	38,1ft	45,8ft	61ft	76,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,497A	104,3W	47lm/W

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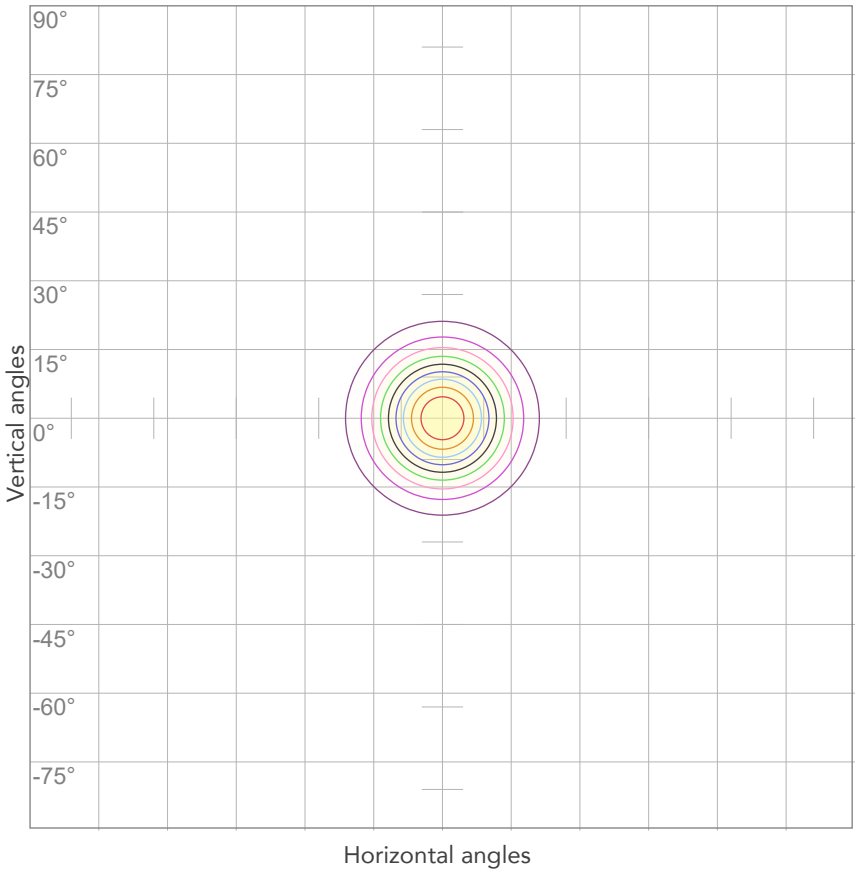
ISO DIAGRAMS

ISO CANDELA DIAGRAM



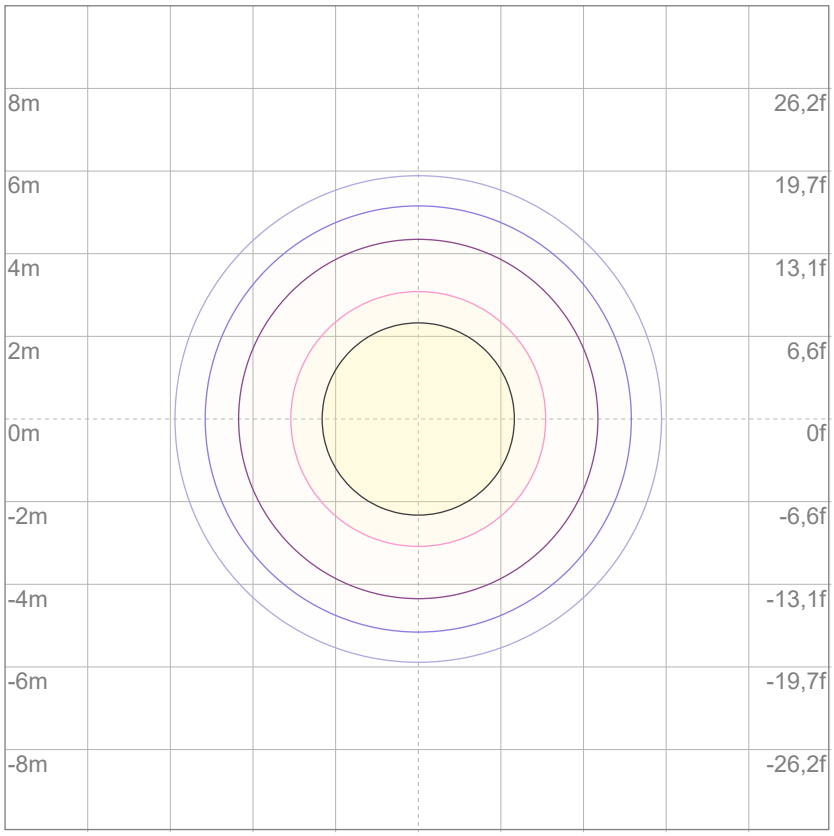
10%	1897 cd
20%	3793 cd
30%	5690 cd
40%	7587 cd
50%	9484 cd
60%	11380 cd
70%	13277 cd
80%	15174 cd

Conditions:

Number of c-planes: 2

Candela at center: 18967 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,69 lx
5%	9,48 lx
10%	19,0 lx
30%	56,9 lx
50%	94,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 190 lx

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

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Total lumen output:

4893 lm

Peak candela output:

8946 cd

Light quality:

CRI: 95,1

Color temperature:

6002 K

PRODUCT NAME:

ECLPENDANTJR FC

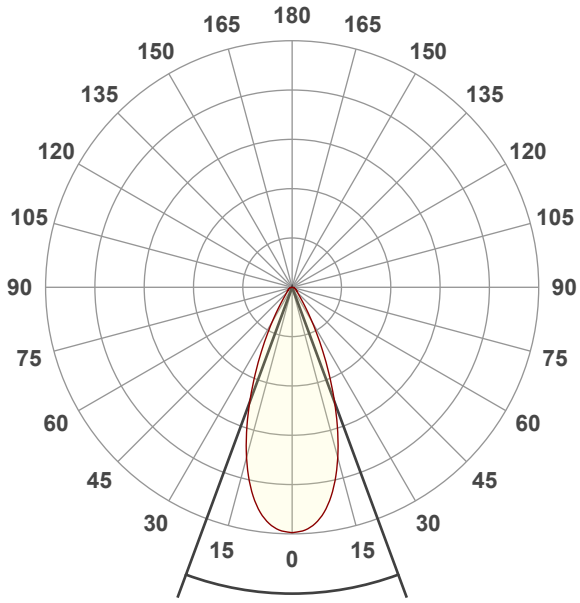
MEASURAMENT CONDITIONS:

Beam angle:
40°

Target:
6000K

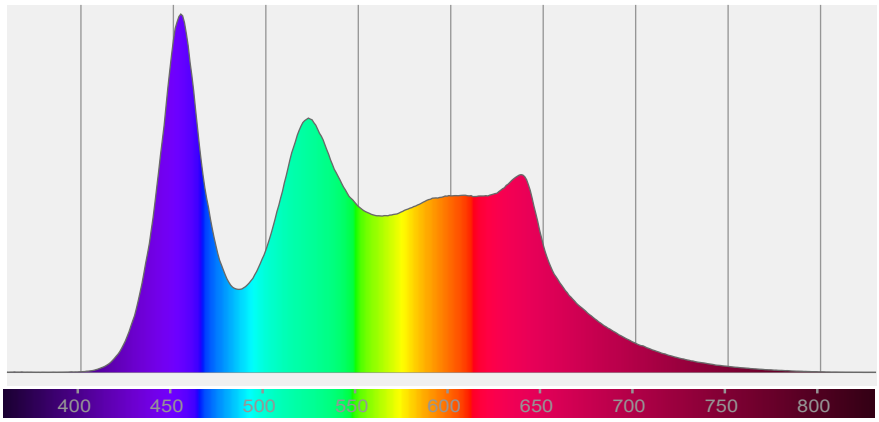
Operator:
Paolo Carvone

Date and time:
18/10/2022 17:03:15

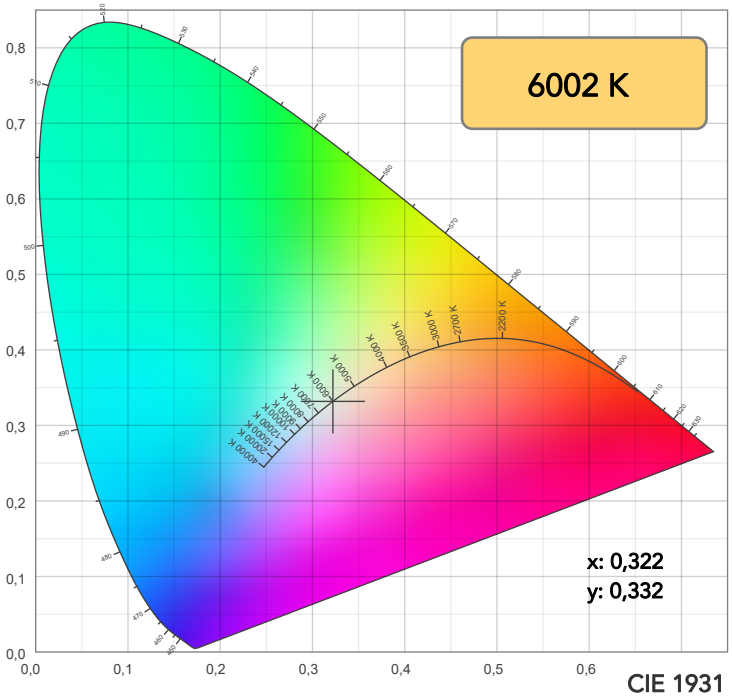


Beam angle 50%: 40,6°
Field angle 10%: 67,1°
Cut off angle 2.5%: 102,3°

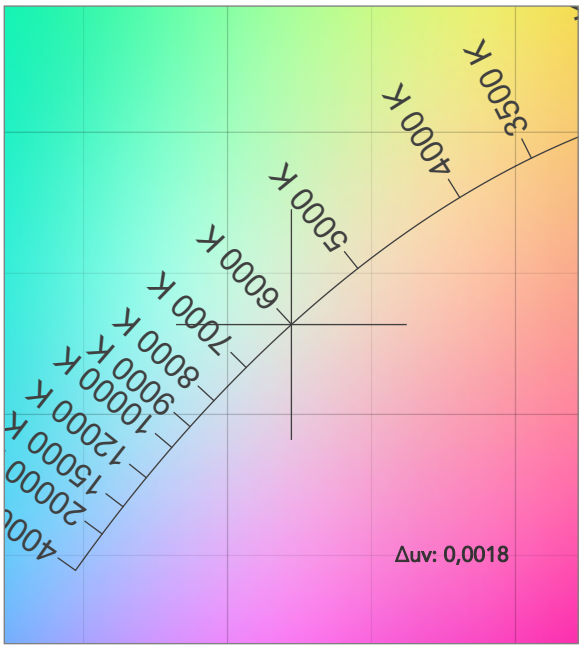
Spectra



COLOR DETAILS

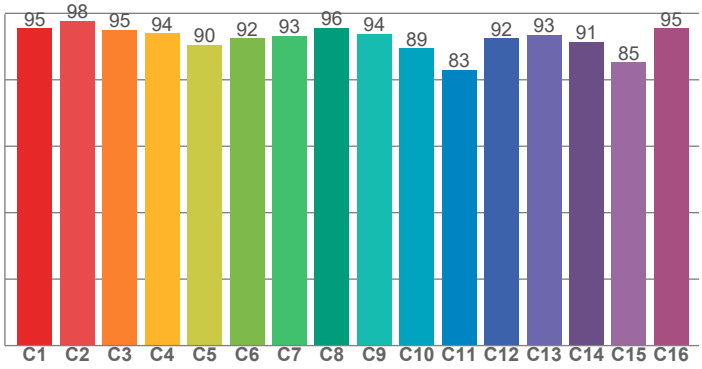


CIE 1931

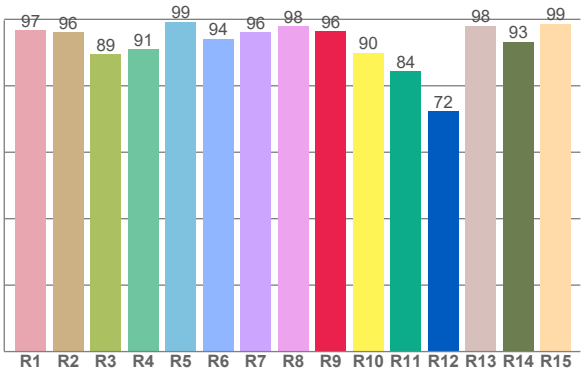


CIE 1931 ZOOM

TM30: 92,2



CRI: 95,1 (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
96,7	96,2	89,5	91,0	99,3	94,2	96,1	97,9	96,4	90,0	84,4	72,3	98,1	93,3	98,7

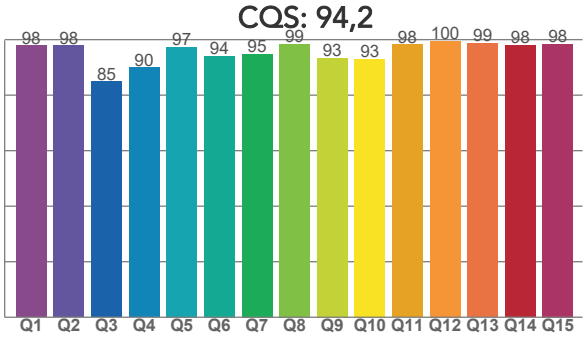
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,5	97,7	94,9	93,9	90,5	92,5	93,3	95,5	93,8	89,5	83,0	92,4	93,5	91,5	85,3	95,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,9	97,8	84,9	90,0	97,3	94,0	94,8	98,5	93,4	93,0	98,2	99,6	98,7	97,9	98,4

CQS: 94,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6002 K	95,1	96,4	92,2	103,6	94,2	95	0,322	0,332	0,0018

TM30 DETAILS

PROLiGHTS

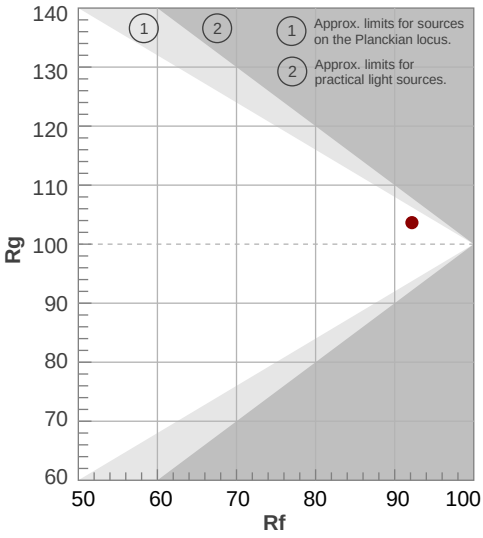
Rf 92,2

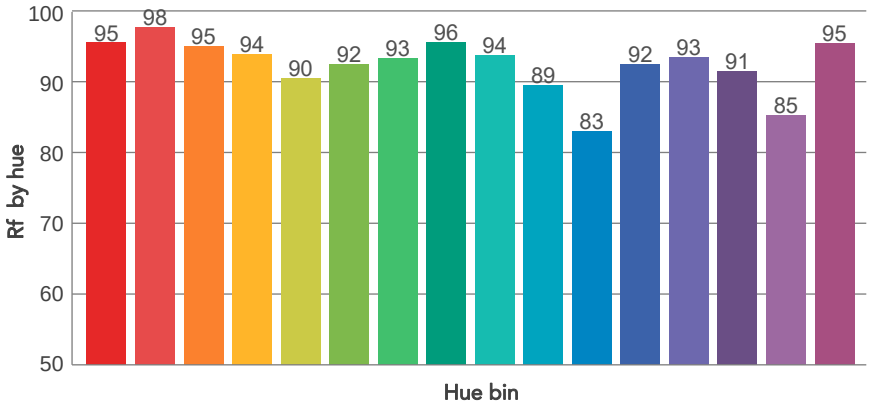
Fidelity index Rf

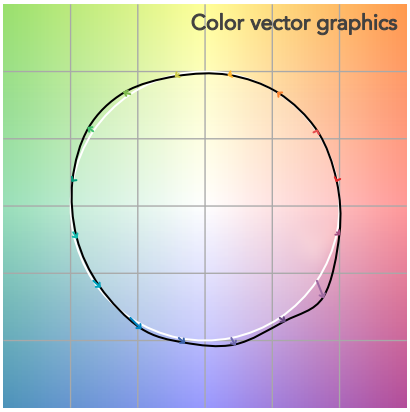
Rg 103,6

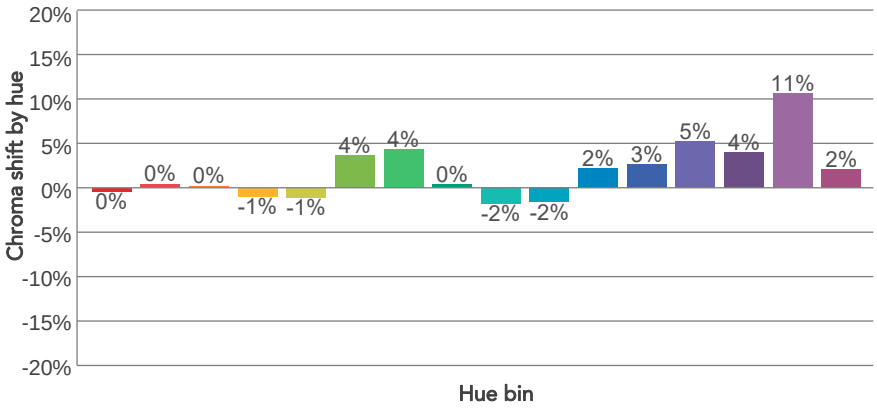
Gammut index

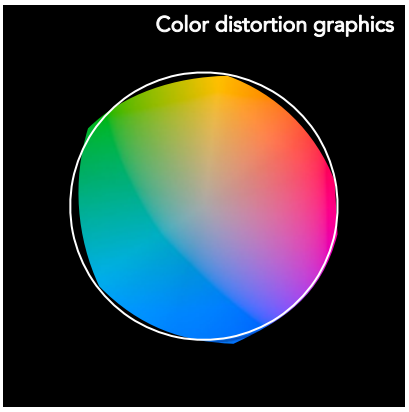
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	-1%
2	98	0%	0%
3	95	0%	2%
4	94	-1%	2%
5	90	-1%	2%
6	92	4%	3%
7	93	4%	0%
8	96	0%	1%
9	94	-2%	4%
10	89	-2%	6%
11	83	2%	10%
12	92	3%	4%
13	93	5%	2%
14	91	4%	2%
15	85	11%	-7%
16	95	2%	-1%

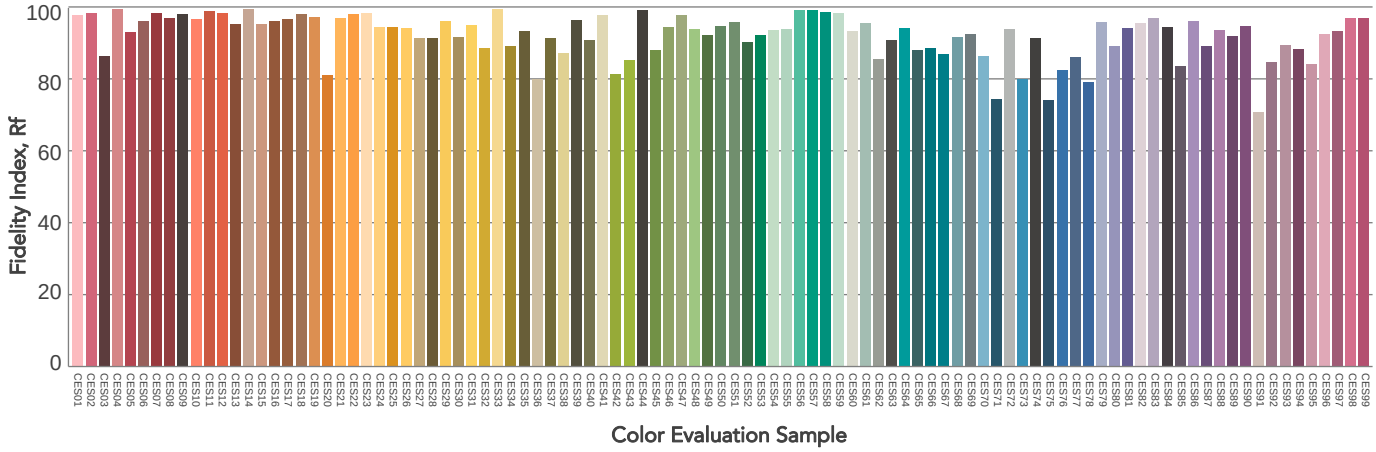












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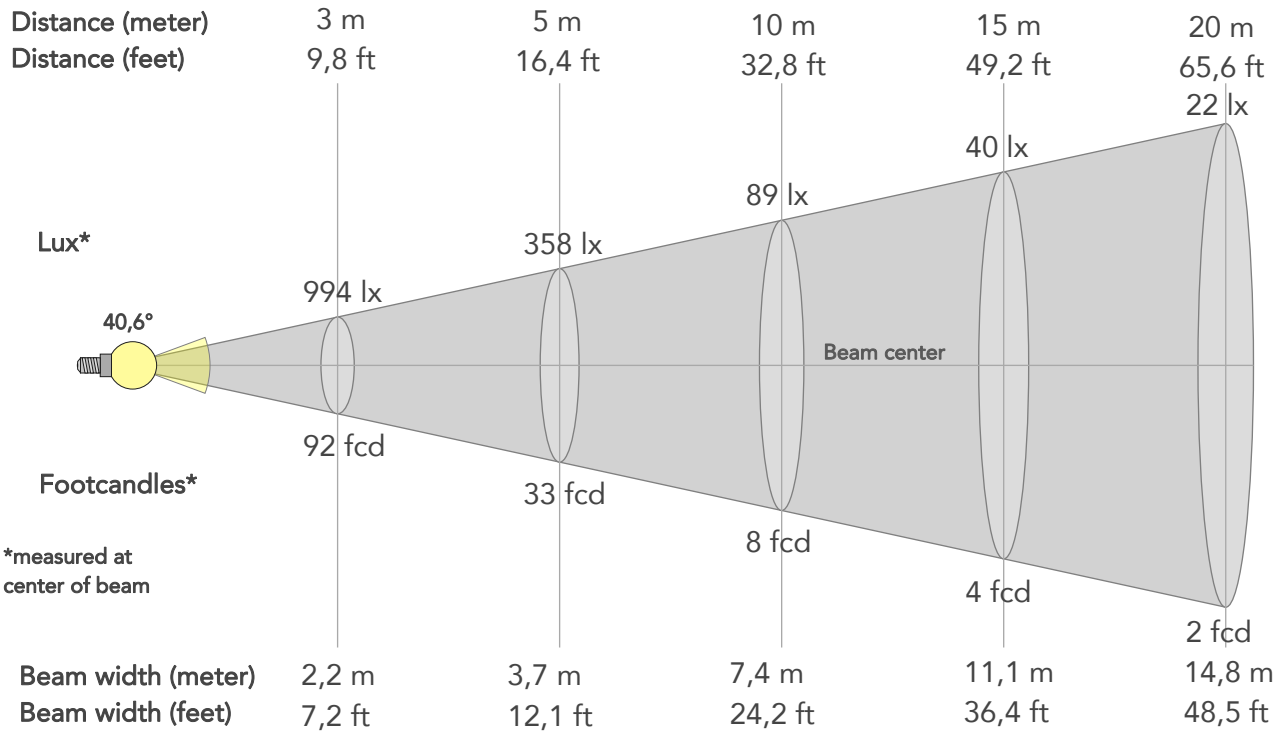
BEAM DETAILS

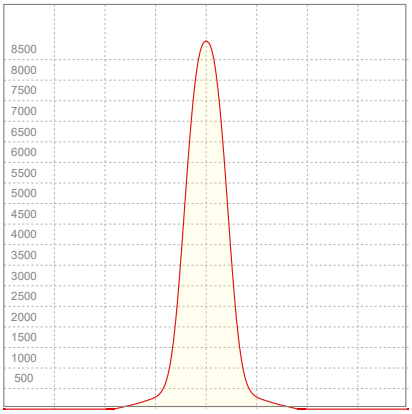
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40,6°	67,1°	102,3°	96,7%	91,1%



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	8946lx	2236lx	994lx	559lx	358lx	159lx	89lx	40lx	22lx	14lx	10lx	6lx	4lx
Footcand.	831fcd	208fcd	92fcd	52fcd	33fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,5m	2,2m	3m	3,7m	5,5m	7,4m	11,1m	14,8m	18,5m	22,2m	29,6m	36,9m
Beam wid.	2,4ft	4,9ft	7,2ft	9,7ft	12,1ft	18,2ft	24,2ft	36,4ft	48,5ft	60,6ft	72,7ft	96,9ft	121,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,498A	103,3W	47lm/W

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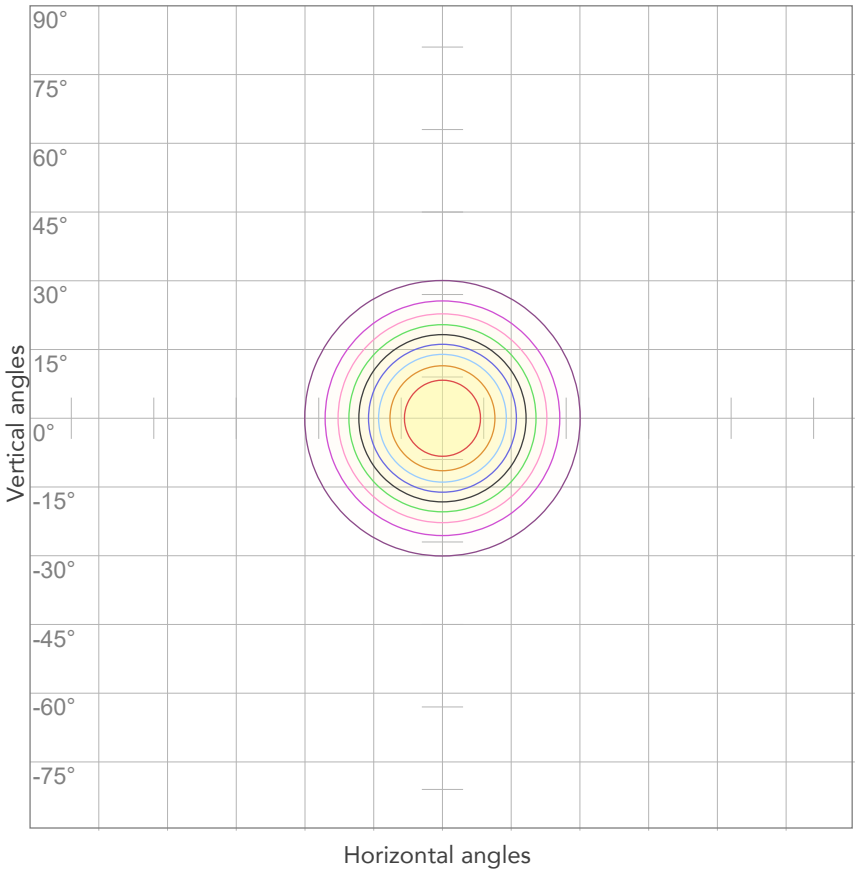
ISO DIAGRAMS

ISO CANDELA DIAGRAM



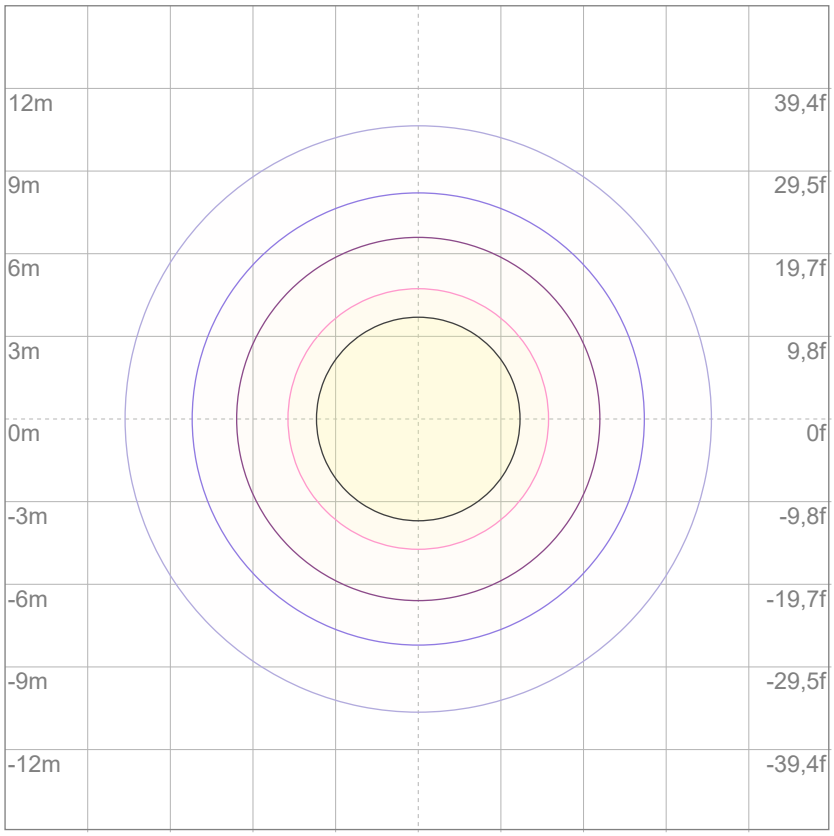
10%	895 cd
20%	1789 cd
30%	2684 cd
40%	3578 cd
50%	4473 cd
60%	5368 cd
70%	6262 cd
80%	7157 cd

Conditions:

Number of c-planes: 2

Candela at center: 8946 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,68 lx
5%	4,47 lx
10%	8,95 lx
30%	26,8 lx
50%	44,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 89,5 lx

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

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Total lumen output:

4935 lm

Peak candela output:

5758 cd

Light quality:

CRI: 95,1

Color temperature:

6002 K

PRODUCT NAME:

ECLPENDANTJR FC

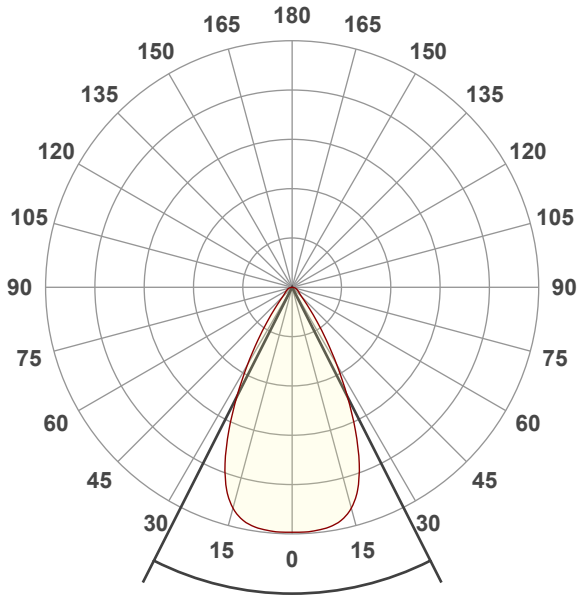
MEASURAMENT CONDITIONS:

Beam angle:
60°

Target:
6000K

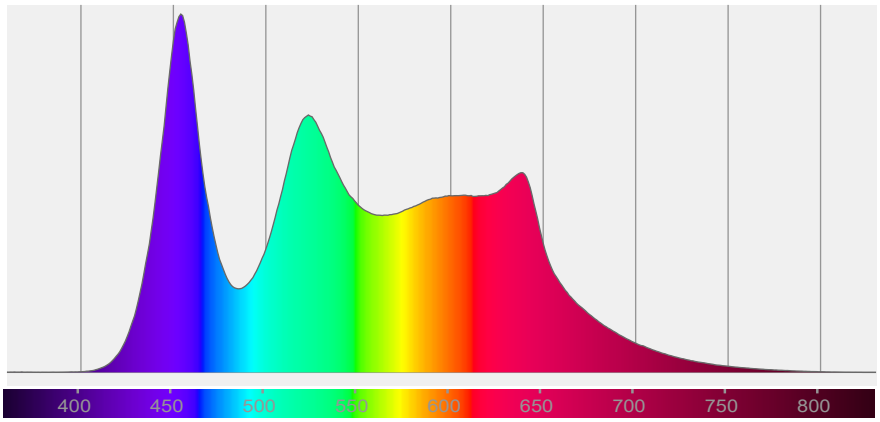
Operator:
Paolo Carvone

Date and time:
18/10/2022 16:59:20

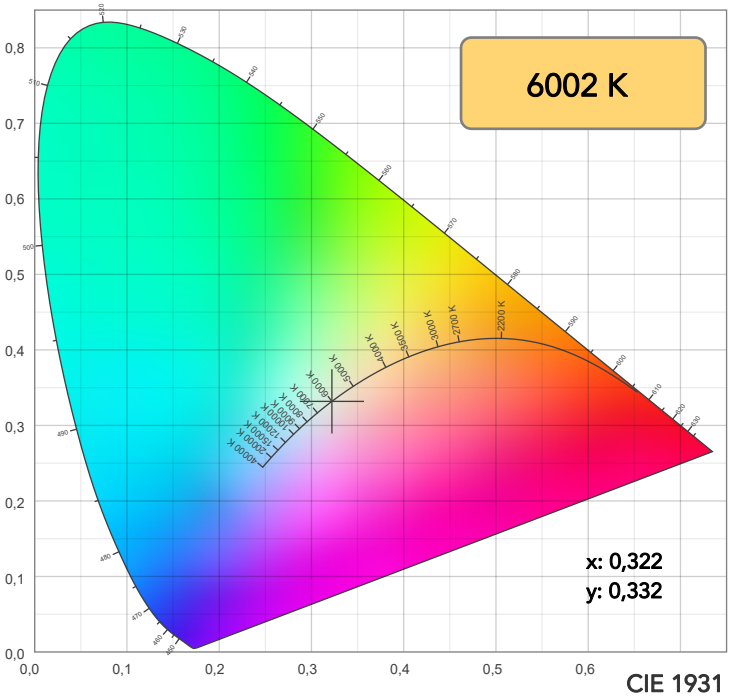


Beam angle 50%: 53,7°
Field angle 10%: 80,2°
Cut off angle 2.5%: 122,5°

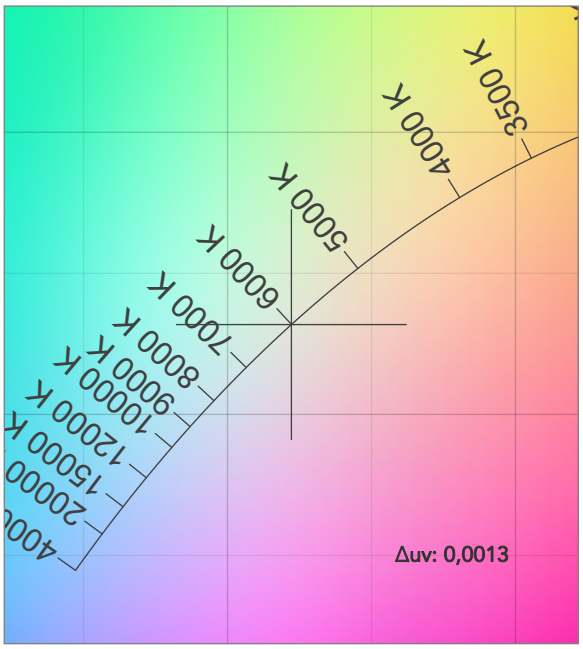
Spectra



COLOR DETAILS

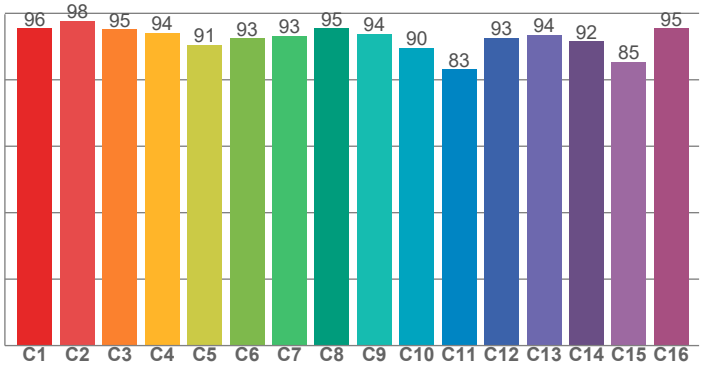


CIE 1931

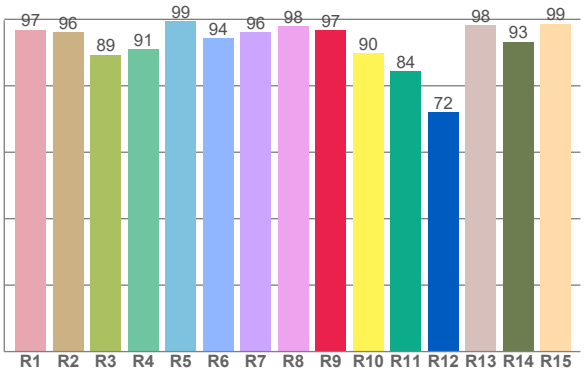


CIE 1931 ZOOM

TM30: 92,2



CRI: 95,1 (R1-R8)



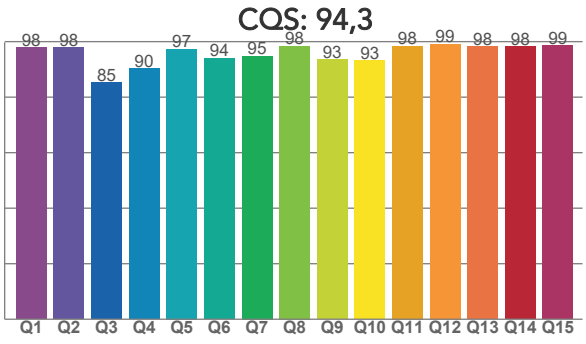
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,9	96,1	89,4	91,0	99,4	94,2	96,1	97,8	96,8	89,8	84,4	72,1	98,3	93,2	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
95,5	97,7	95,1	94,0	90,5	92,5	93,3	95,5	93,8	89,6	83,2	92,6	93,6	91,6	85,3	95,4

CQS: 94,3



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,9	97,9	85,2	90,3	97,4	94,0	94,8	98,5	93,5	93,2	98,4	99,1	98,2	98,2	98,5

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6002 K	95,1	96,8	92,2	103,6	94,3	95	0,322	0,332	0,0013

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TM30 DETAILS

PROLiGHTS

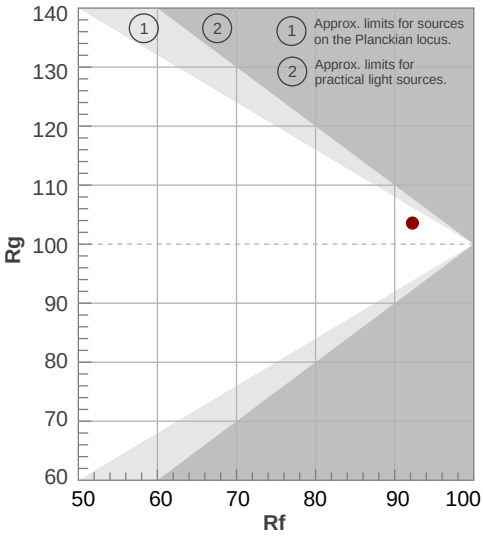
Rf 92,2

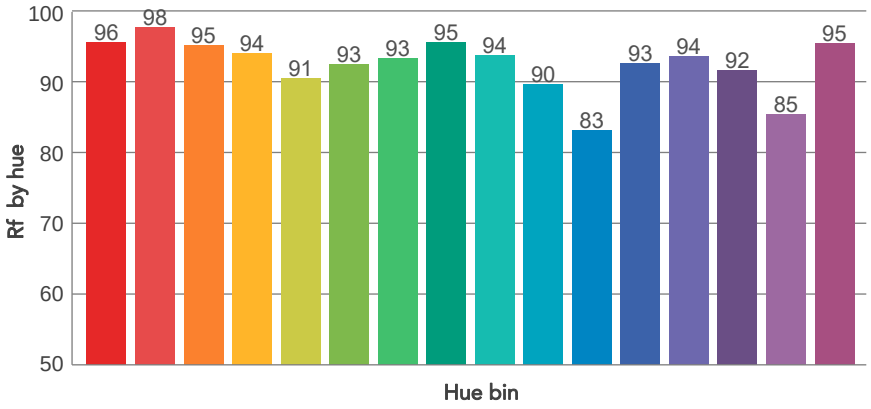
Fidelity index Rf

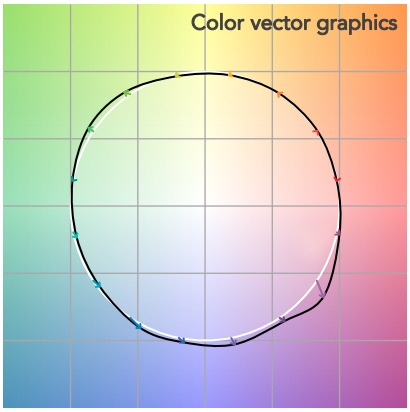
Rg 103,6

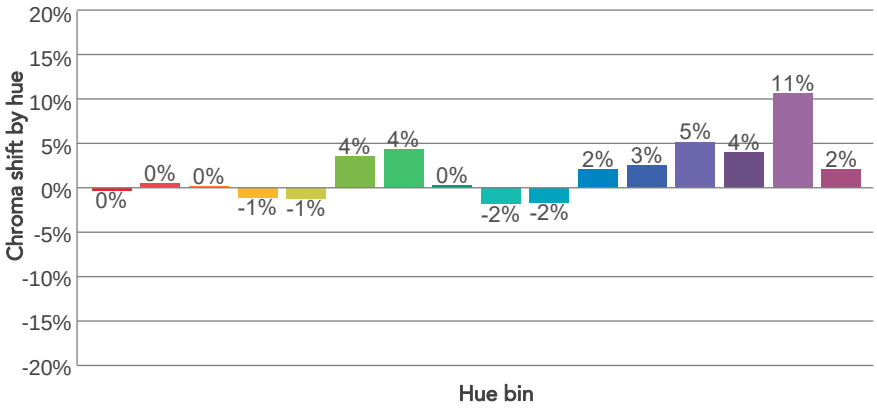
Gammut index

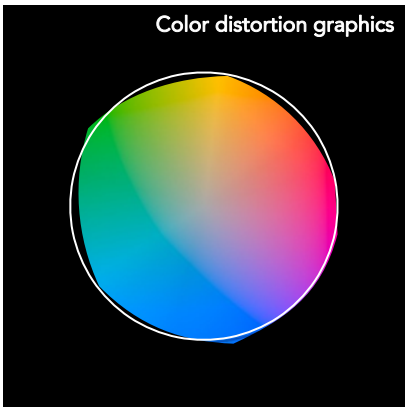
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	-1%
2	98	0%	0%
3	95	0%	1%
4	94	-1%	2%
5	91	-1%	2%
6	93	4%	3%
7	93	4%	0%
8	95	0%	1%
9	94	-2%	4%
10	90	-2%	6%
11	83	2%	10%
12	93	3%	4%
13	94	5%	2%
14	92	4%	2%
15	85	11%	-7%
16	95	2%	-1%

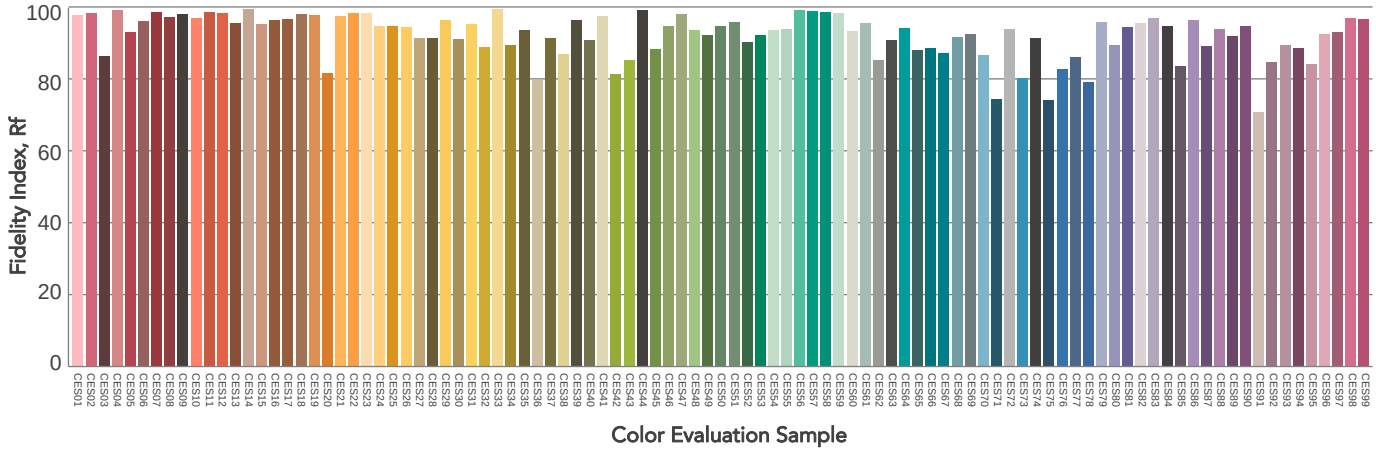












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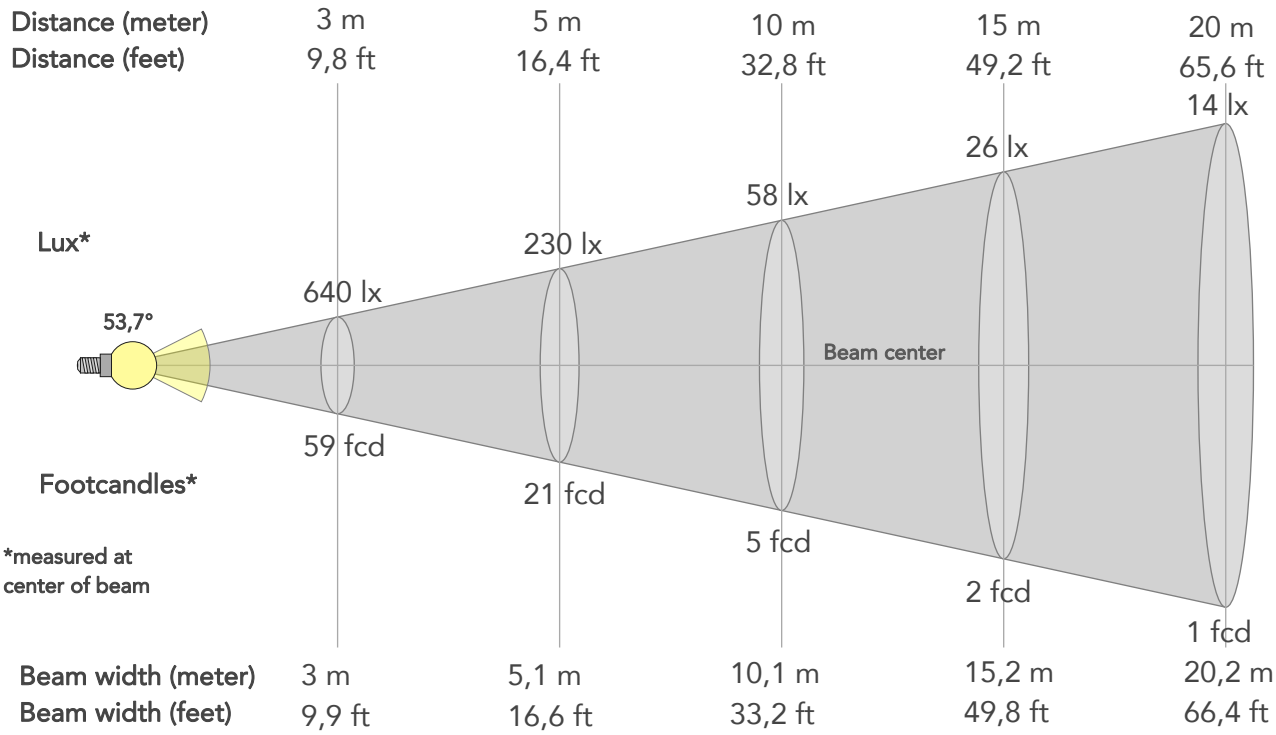
BEAM DETAILS

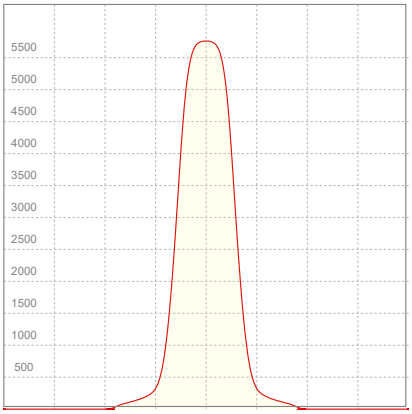
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,7°	80,2°	122,5°	95,7%	90,1%



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	5758lx	1439lx	640lx	360lx	230lx	102lx	58lx	26lx	14lx	9lx	6lx	4lx	2lx
Footcand.	535fcd	134fcd	59fcd	33fcd	21fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1m	2m	3m	4m	5,1m	7,6m	10,1m	15,2m	20,2m	25,3m	30,3m	40,5m	50,6m
Beam wid.	3,3ft	6,7ft	9,9ft	13,3ft	16,6ft	24,9ft	33,2ft	49,8ft	66,4ft	82,9ft	99,5ft	132,7ft	165,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,498A	103,2W	48lm/W

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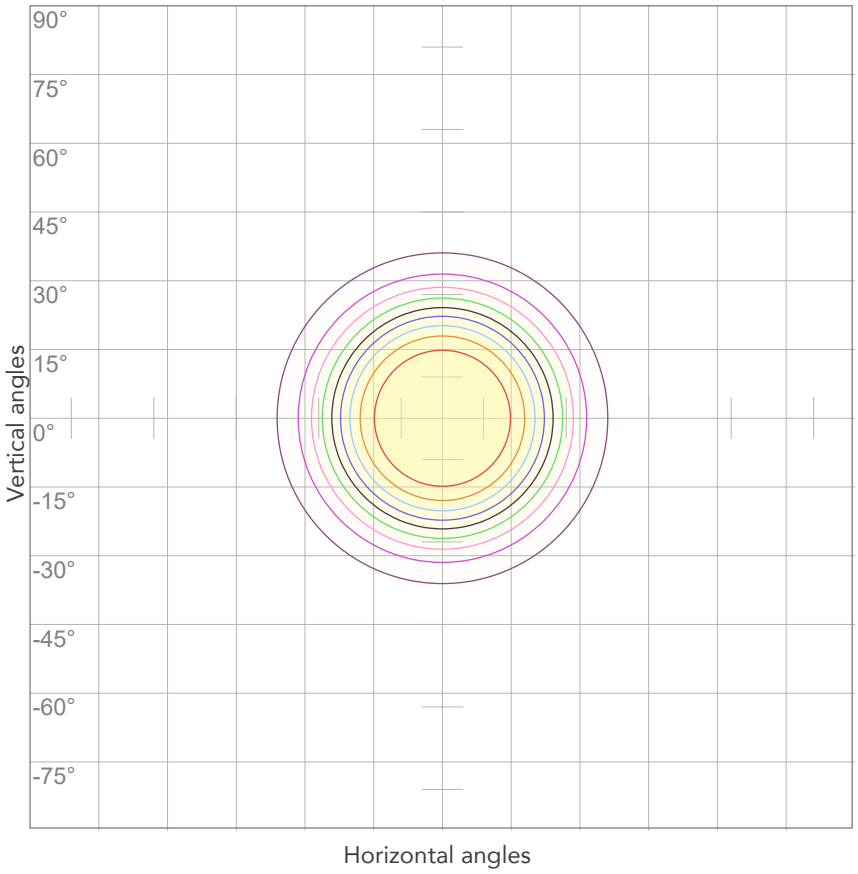
ISO DIAGRAMS

ISO CANDELA DIAGRAM



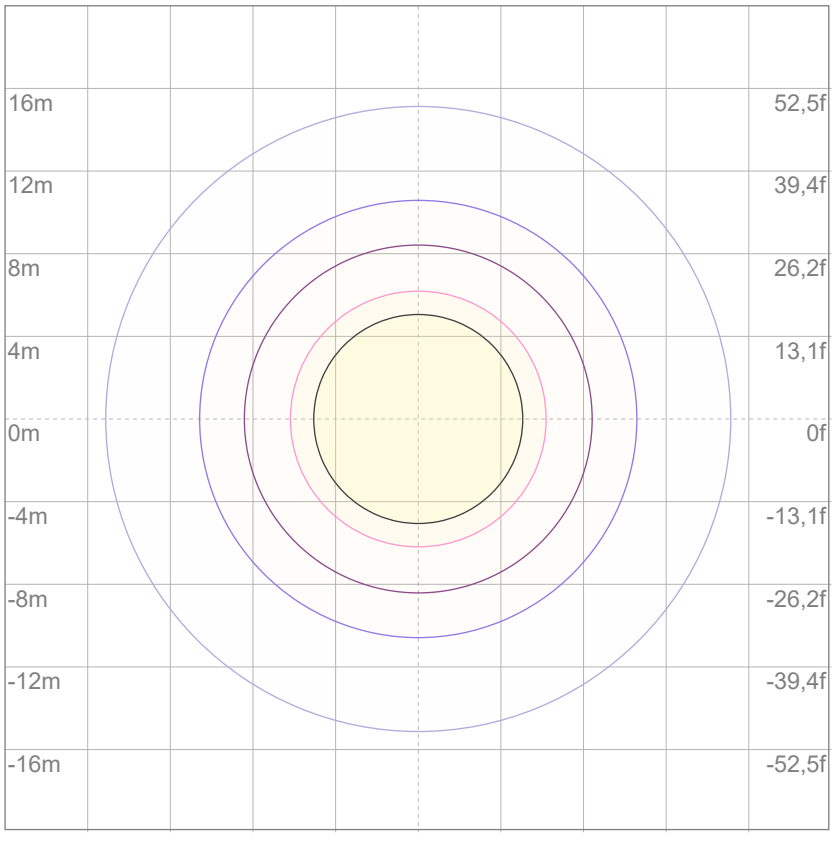
10%	576 cd
20%	1152 cd
30%	1727 cd
40%	2303 cd
50%	2879 cd
60%	3455 cd
70%	4030 cd
80%	4606 cd

Conditions:

Number of c-planes: 2

Candela at center: 5758 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,73 lx
5%	2,88 lx
10%	5,76 lx
30%	17,3 lx
50%	28,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 57,6 lx

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

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