Photometric Test Report

ECLPARFC

150W RGB + Warm White HQ and flexible

LED PAR

CONTENTS

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:

5983 lm

Peak candela output:

25989 cd

PRODUCT NAME:

ECLPAR FC

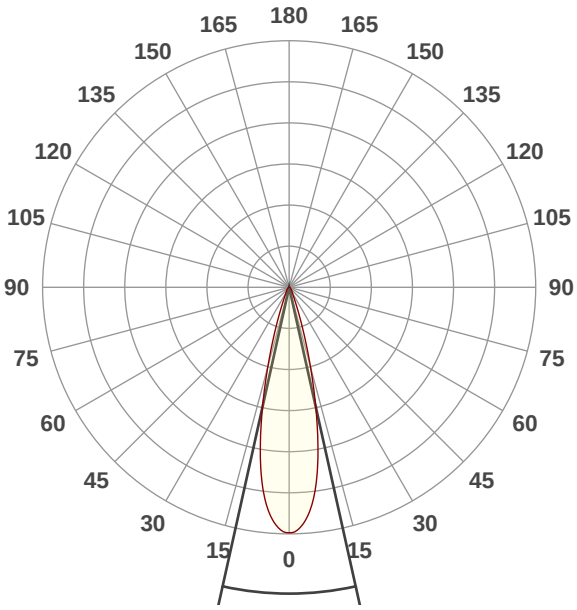
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Full on

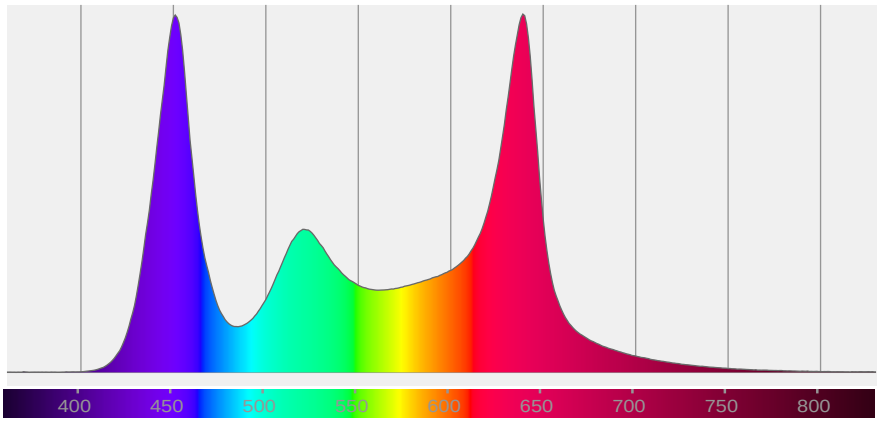
Operator:
Paolo Carvone

Date and time:
07/05/2020 17:36:01



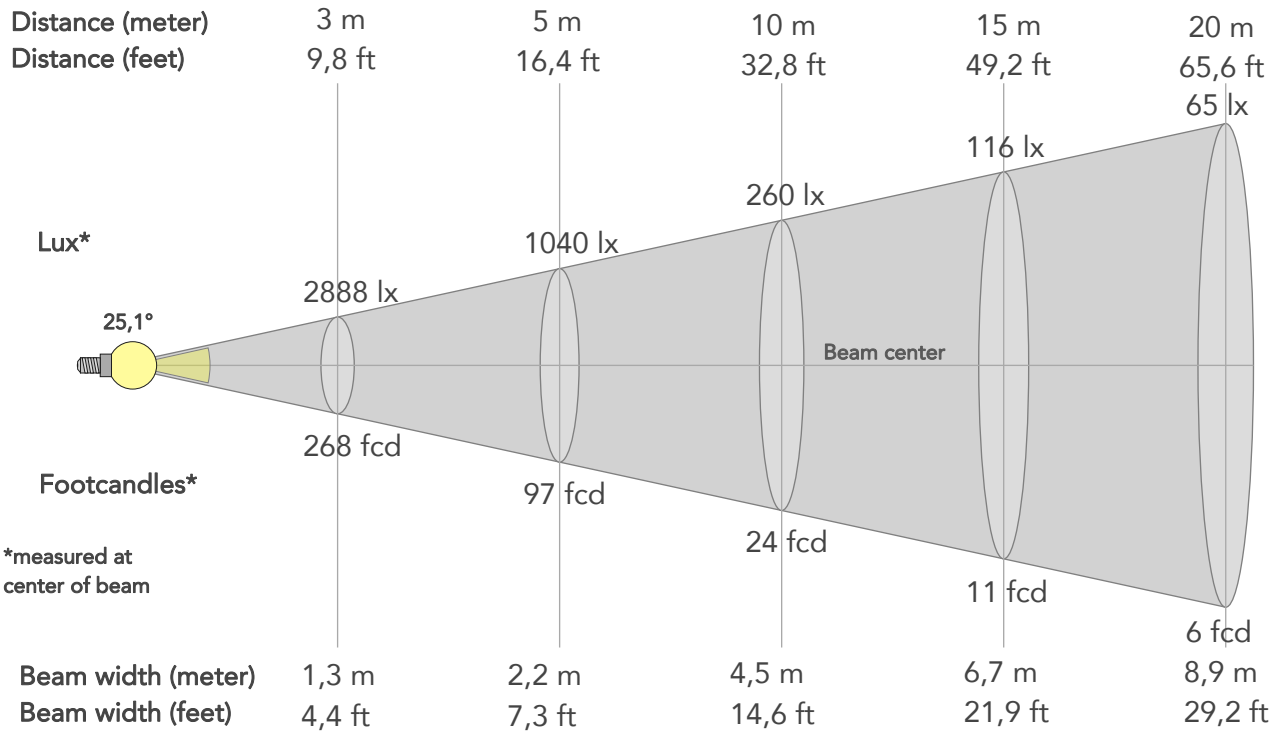
Beam angle 50%: 25,1°
Field angle 10%: 41,5°
Cut off angle 2.5%: 61,2°

Spectra



BEAM DETAILS

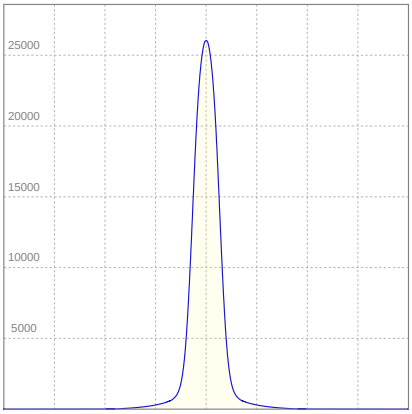
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,1°	41,5°	61,2°	97,2%	92,9%



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	25989lx	6497lx	2888lx	1624lx	1040lx	462lx	260lx	116lx	65lx	42lx	29lx	16lx	10lx
Footcand.	2414fcd	604fcd	268fcd	151fcd	97fcd	43fcd	24fcd	11fcd	6fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,4m	0,9m	1,3m	1,8m	2,2m	3,3m	4,5m	6,7m	8,9m	11,1m	13,4m	17,8m	22,3m
Beam wid.	1,5ft	2,9ft	4,4ft	5,8ft	7,3ft	10,9ft	14,6ft	21,9ft	29,2ft	36,5ft	43,8ft	58,4ft	73ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,692A	144,9W	41lm/W

Power FC
0,93

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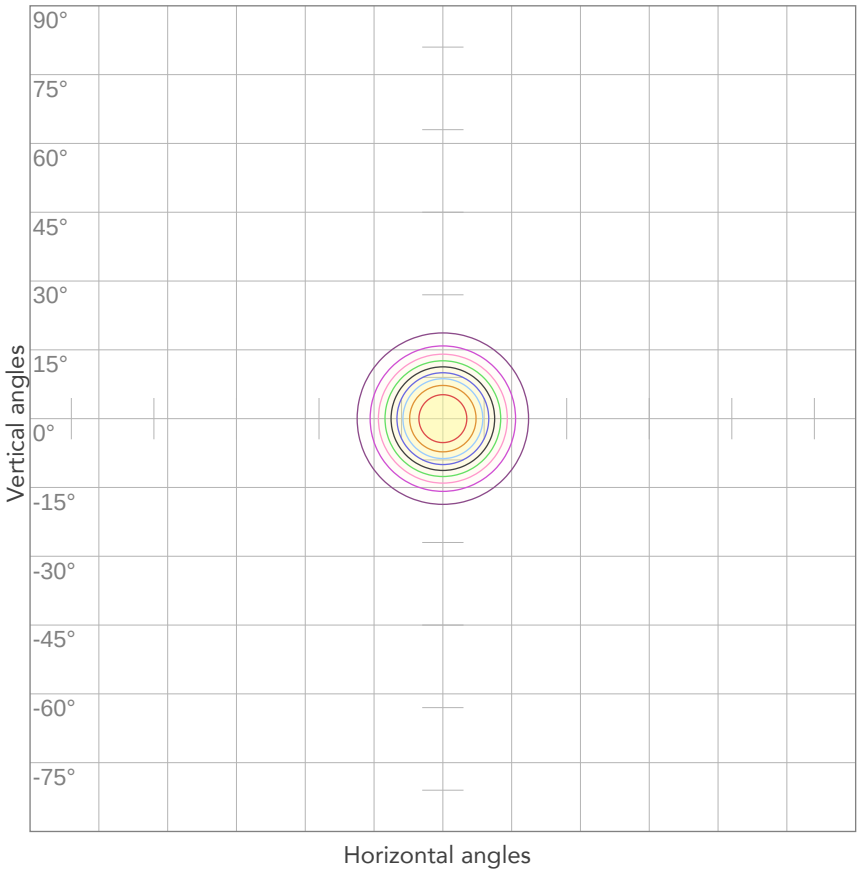
ISO DIAGRAMS

ISO CANDELA DIAGRAM



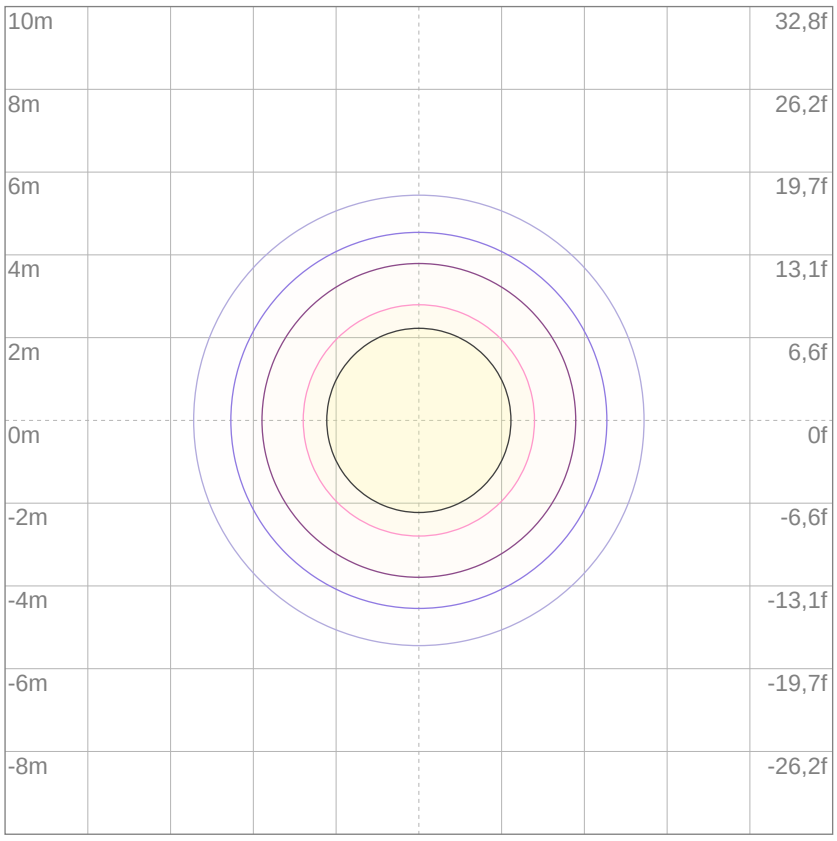
10%	2599 cd
20%	5198 cd
30%	7797 cd
40%	10395 cd
50%	12994 cd
60%	15593 cd
70%	18192 cd
80%	20791 cd

Conditions:

Number of c-planes: 2

Candela at center: 25989 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	7,80 lx
5%	13,0 lx
10%	26,0 lx
30%	78,0 lx
50%	130 lx

Conditions:

Number of c-planes: 2

Lux at center: 260 lx

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

Total lumen output:

5774 lm

Peak candela output:

4154 cd

PRODUCT NAME:

ECLPAR FC

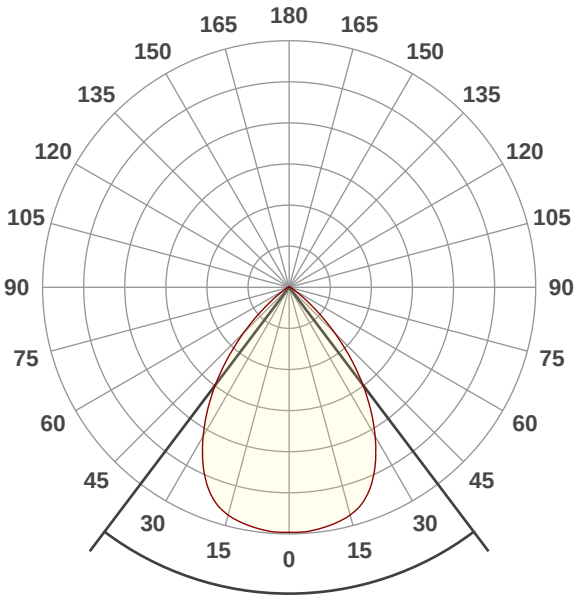
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
Full on

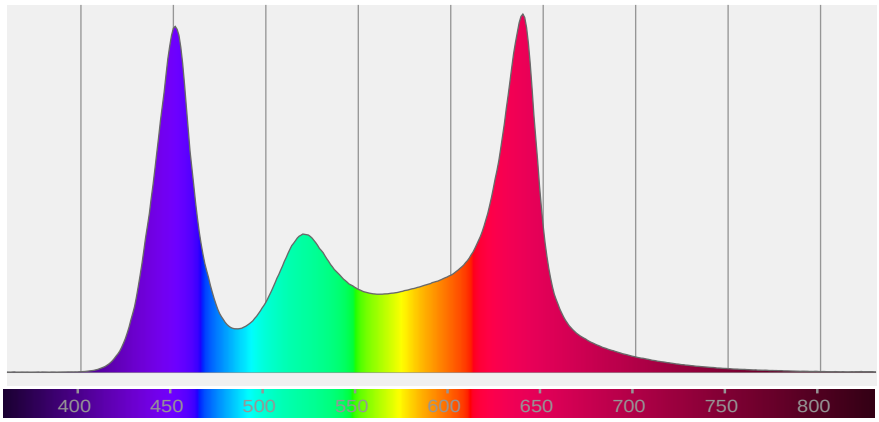
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:49:53



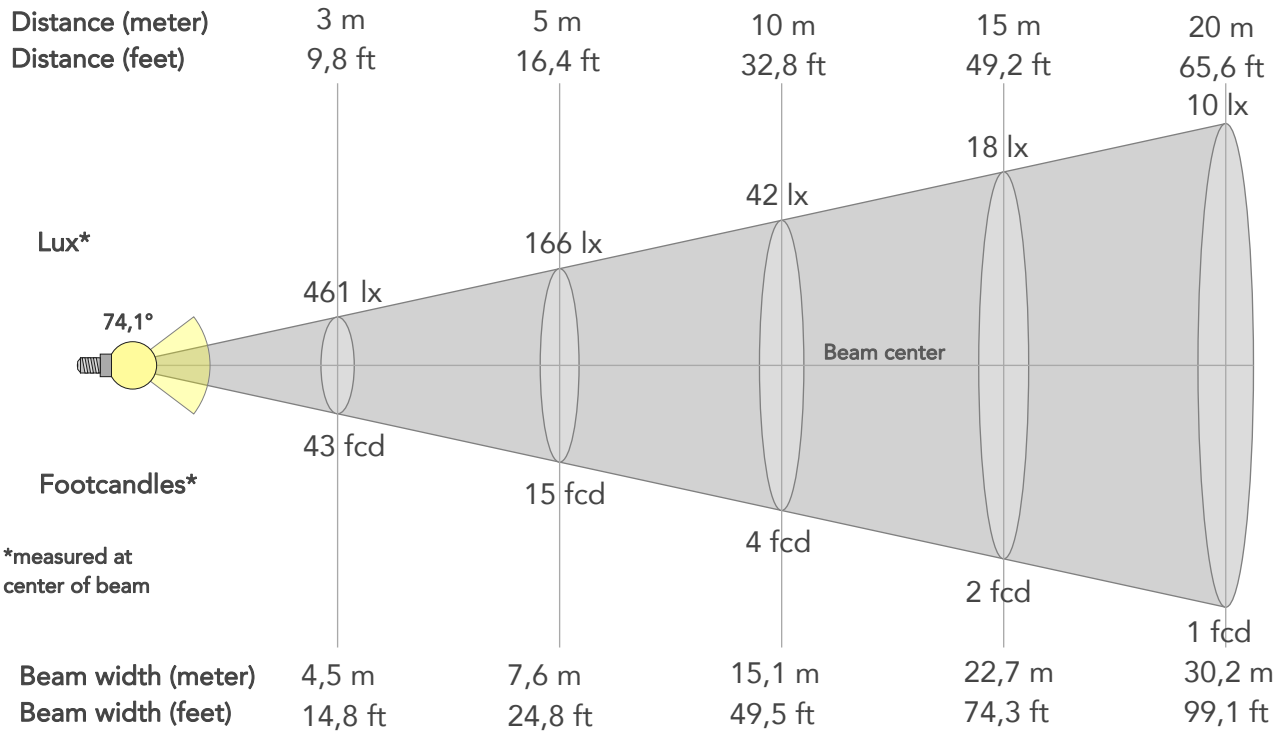
Beam angle 50%: 74,1°
Field angle 10%: 104,2°
Cut off angle 2.5%: 122°

Spectra



BEAM DETAILS

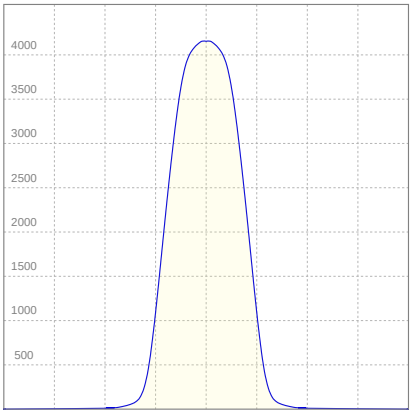
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,1°	104,2°	122°	97,3%	87,2%



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	4153lx	1038lx	461lx	260lx	166lx	74lx	42lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	386fcd	96fcd	43fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,6m	11,3m	15,1m	22,7m	30,2m	37,8m	45,3m	60,4m	75,5m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,8ft	37,2ft	49,5ft	74,3ft	99,1ft	123,9ft	148,6ft	198,2ft	247,7ft

LINEAR DISTRIBUTION DIAGRAM



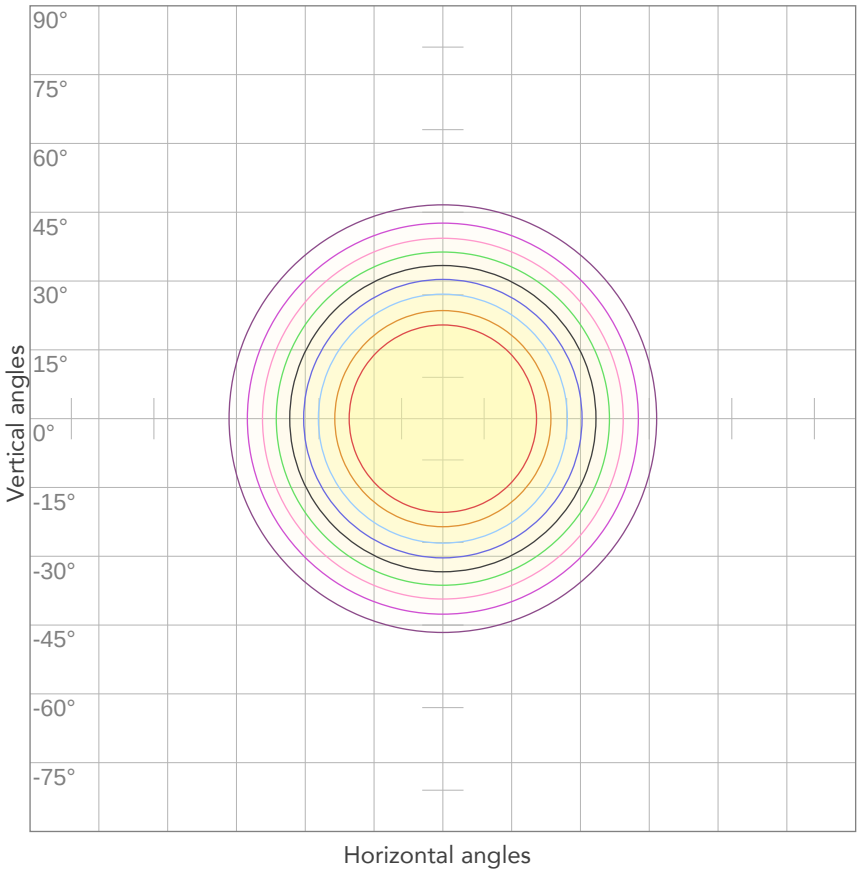
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,688A	144,9W	40lm/W

Power FC
0,92

ISO DIAGRAMS

ISO CANDELA DIAGRAM



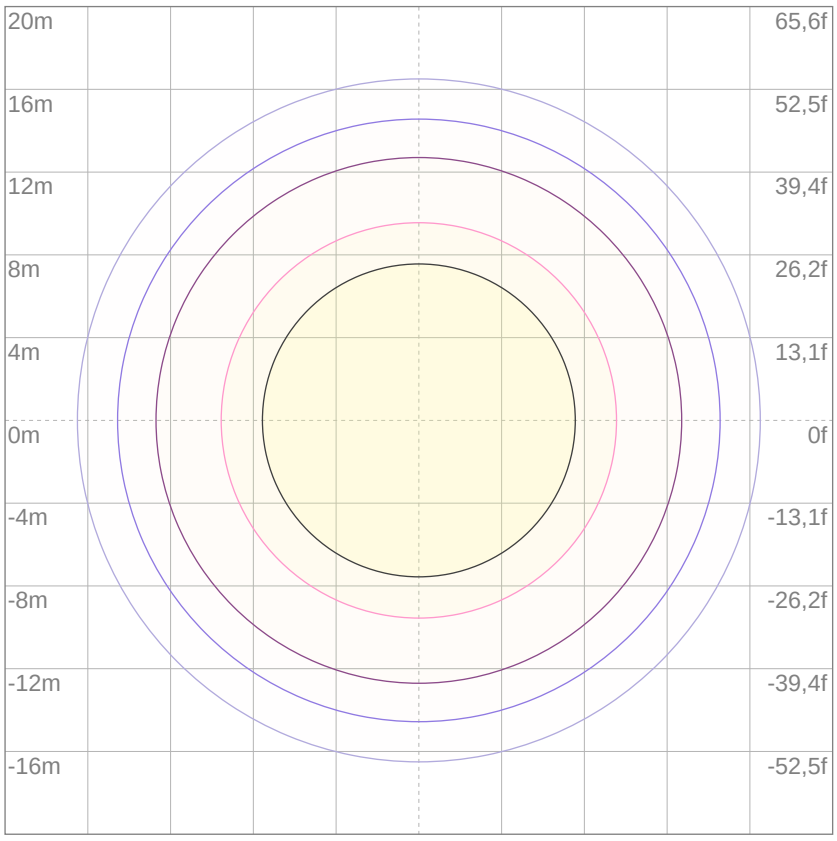
10%	415 cd
20%	831 cd
30%	1246 cd
40%	1661 cd
50%	2077 cd
60%	2492 cd
70%	2907 cd
80%	3323 cd

Conditions:

Number of c-planes: 2

Candela at center: 4153 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,25 lx
5%	2,08 lx
10%	4,15 lx
30%	12,5 lx
50%	20,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 41,5 lx

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

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Total lumen output:

1202 lm

Peak candela output:

6020 cd

PRODUCT NAME:

ECLPAR FC

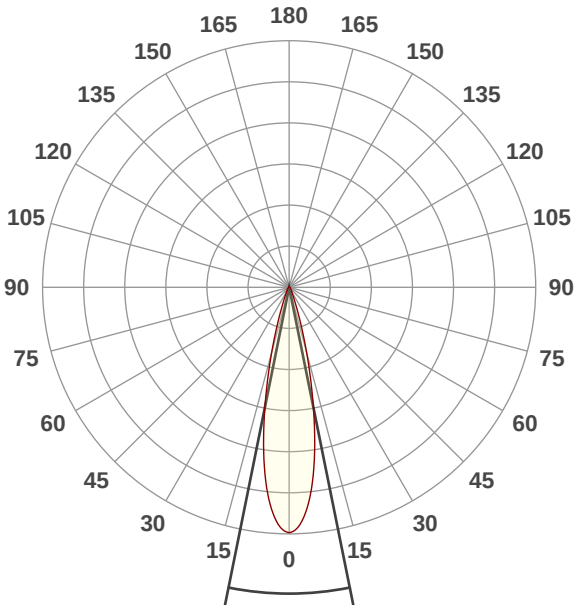
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Red

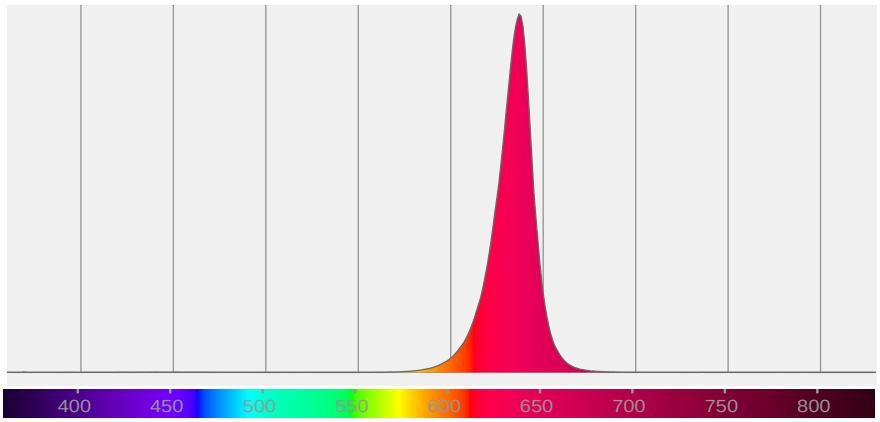
Operator:
Paolo Carvone

Date and time:
07/05/2020 17:37:51



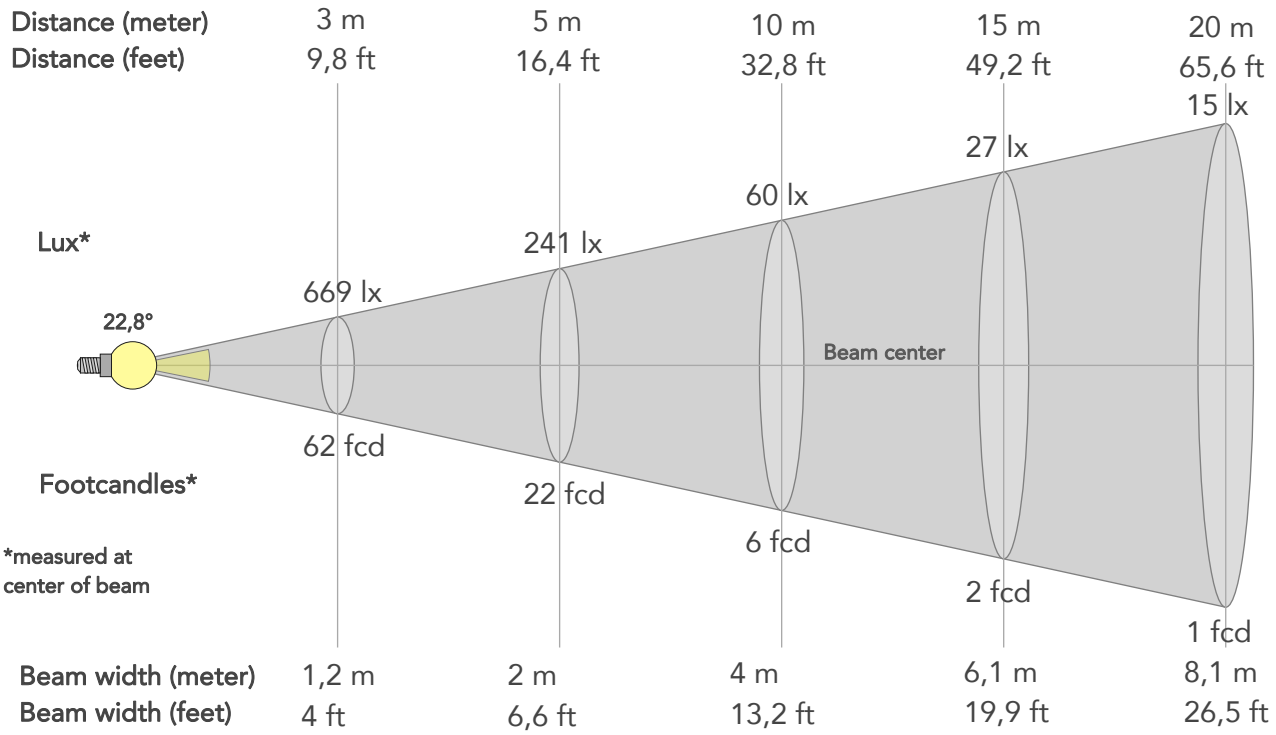
Beam angle 50%: 22,8°
Field angle 10%: 39,2°
Cut off angle 2.5%: 56,9°

Spectra



BEAM DETAILS

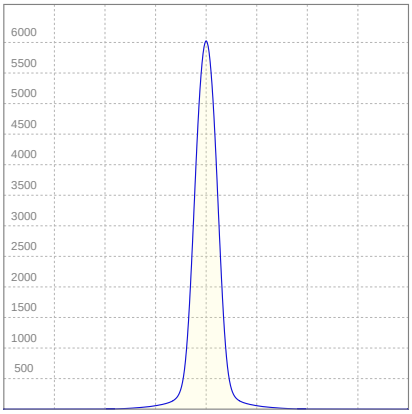
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,8°	39,2°	56,9°	97,0%	92,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	6020lx	1505lx	669lx	376lx	241lx	107lx	60lx	27lx	15lx	10lx	7lx	4lx	2lx
Footcand.	559fcd	140fcd	62fcd	35fcd	22fcd	10fcd	6fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	6,1m	8,1m	10,1m	12,1m	16,2m	20,2m
Beam wid.	1,3ft	2,7ft	4ft	5,3ft	6,6ft	9,9ft	13,2ft	19,9ft	26,5ft	33,1ft	39,7ft	53ft	66,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,202A	30,2W	40lm/W

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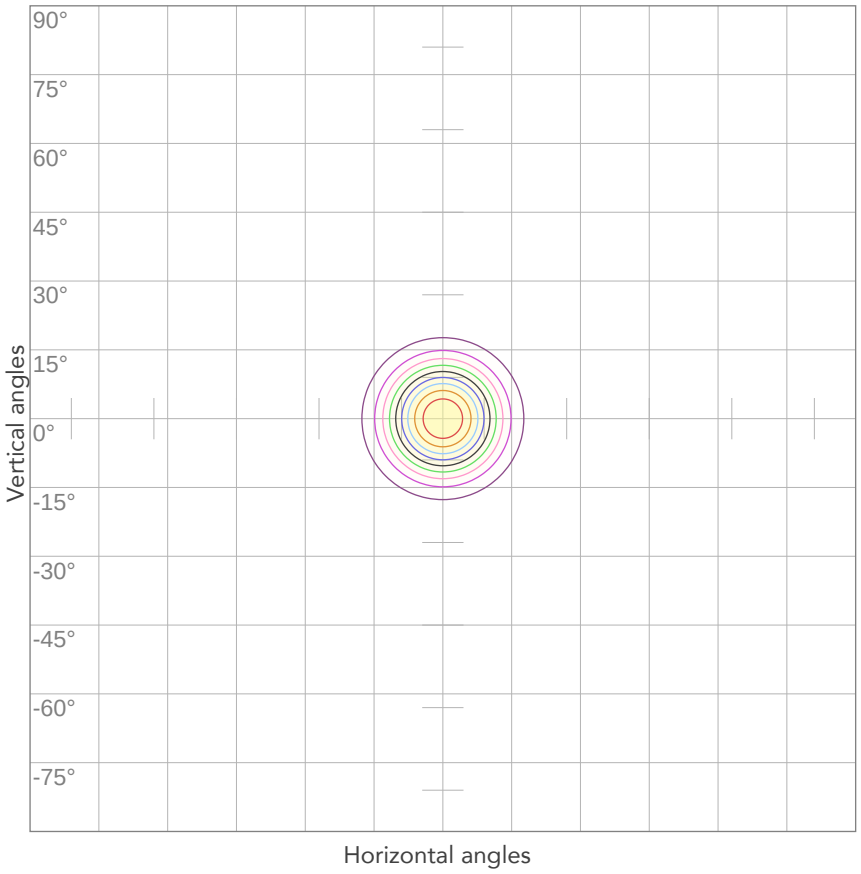
ISO DIAGRAMS

ISO CANDELA DIAGRAM



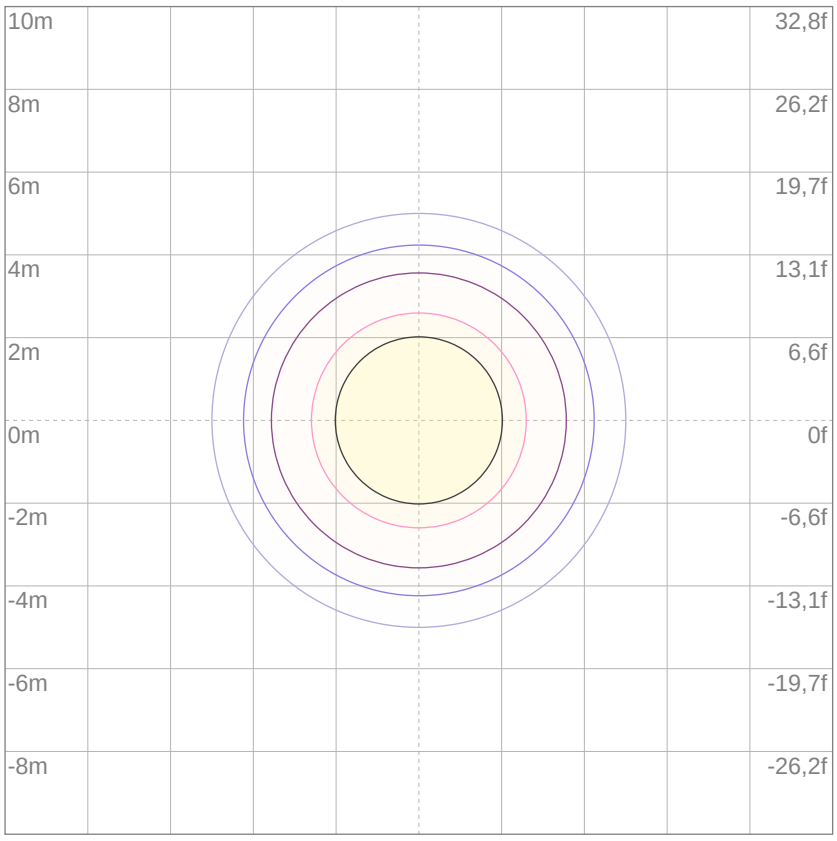
10%	602 cd
20%	1204 cd
30%	1806 cd
40%	2408 cd
50%	3010 cd
60%	3612 cd
70%	4214 cd
80%	4816 cd

Conditions:

Number of c-planes: 2

Candela at center: 6020 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,81 lx
5%	3,01 lx
10%	6,02 lx
30%	18,1 lx
50%	30,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 60,2 lx

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

Total lumen output:

1220 lm

Peak candela output:

920 cd

PRODUCT NAME:

ECLPAR FC

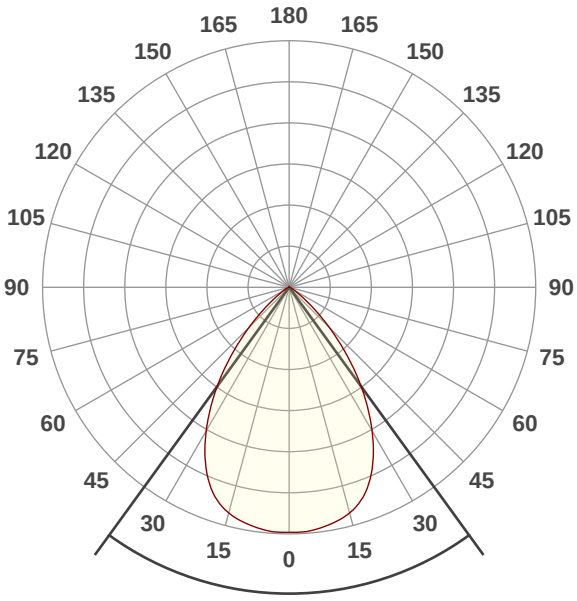
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
Red

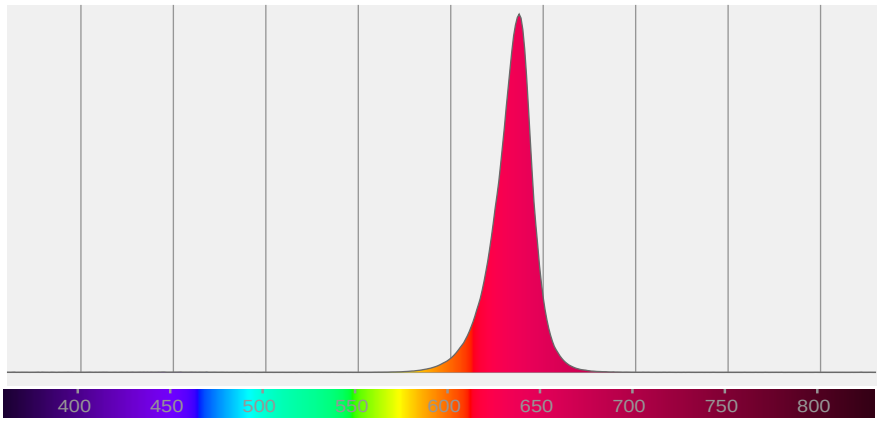
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:52:06



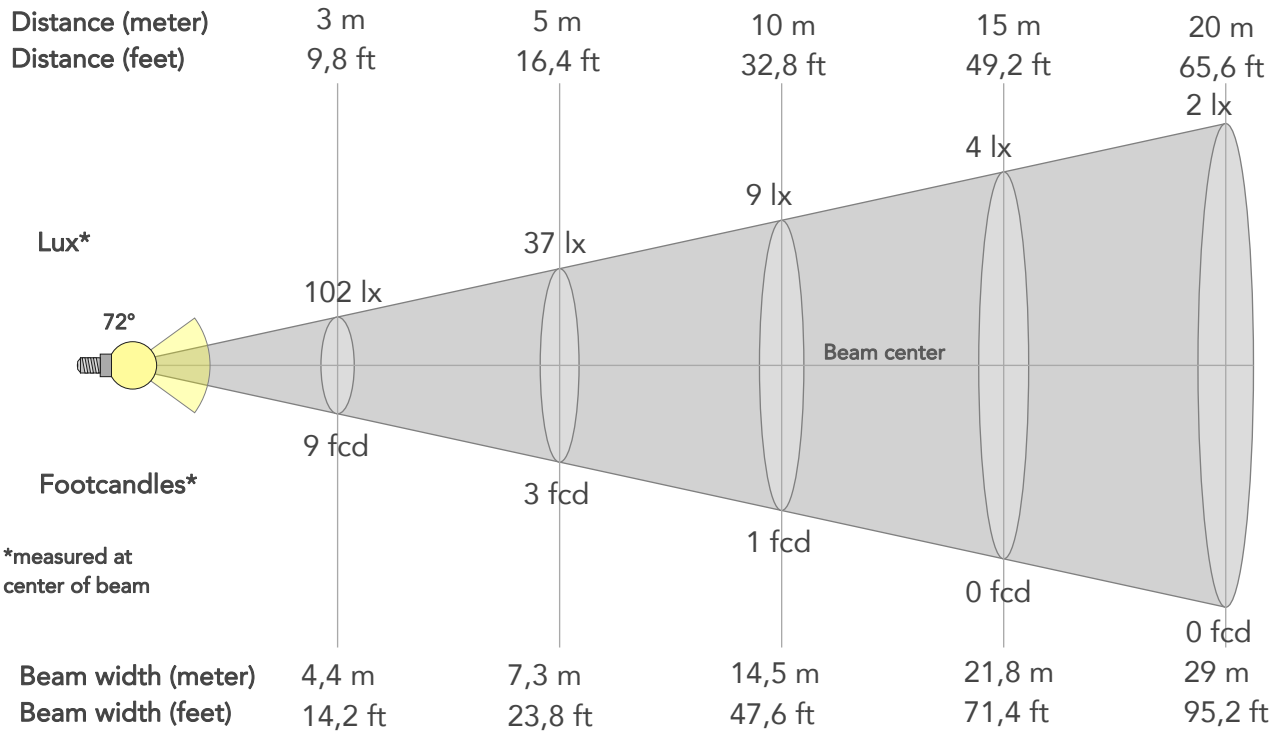
Beam angle 50%: 72°
Field angle 10%: 102,2°
Cut off angle 2.5%: 120,1°

Spectra



BEAM DETAILS

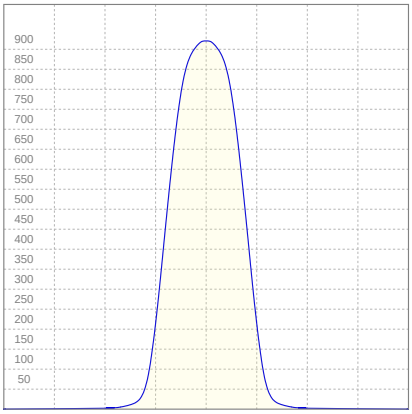
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72°	102,2°	120,1°	97,3%	88,1%



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	920lx	230lx	102lx	58lx	37lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	85fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	2,9m	4,4m	5,8m	7,3m	10,9m	14,5m	21,8m	29m	36,3m	43,6m	58,1m	72,6m
Beam wid.	4,8ft	9,6ft	14,2ft	19ft	23,8ft	35,7ft	47,6ft	71,4ft	95,2ft	119,1ft	142,9ft	190,5ft	238,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,206A	31,0W	39lm/W

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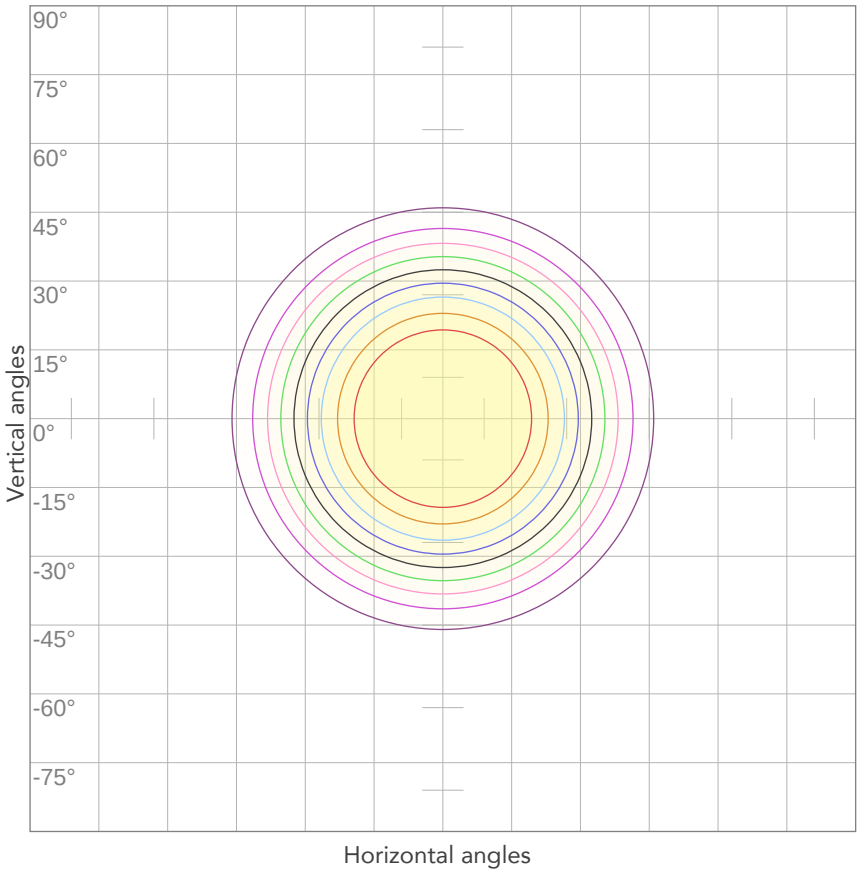
ISO DIAGRAMS

ISO CANDELA DIAGRAM



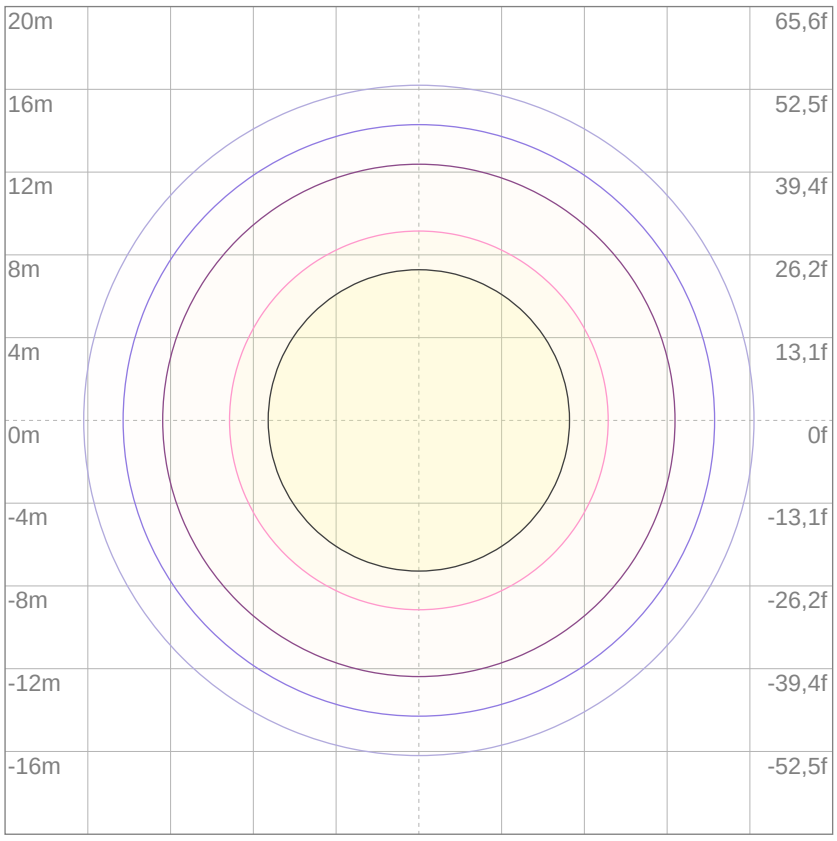
10%	92 cd
20%	184 cd
30%	276 cd
40%	368 cd
50%	460 cd
60%	552 cd
70%	644 cd
80%	736 cd

Conditions:

Number of c-planes: 2

Candela at center: 920 cd

ISO LUX DIAGRAM



3%	0,276 lx
5%	0,460 lx
10%	0,920 lx
30%	2,76 lx
50%	4,60 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,20 lx

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

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Total lumen output:

1777 lm

Peak candela output:

8920 cd

PRODUCT NAME:

ECLPAR FC

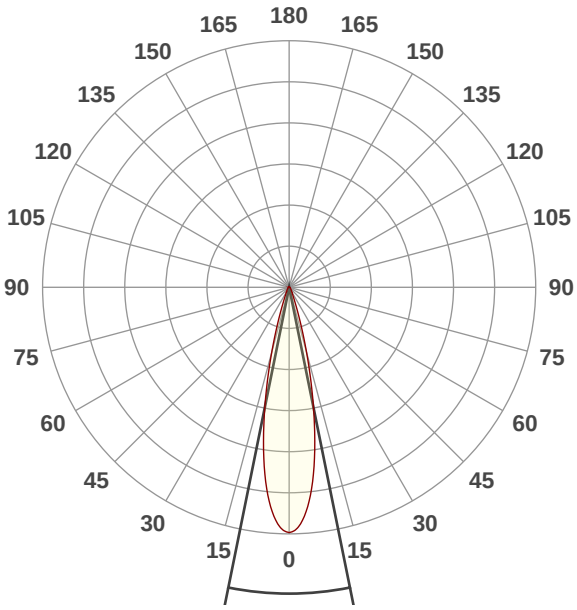
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Green

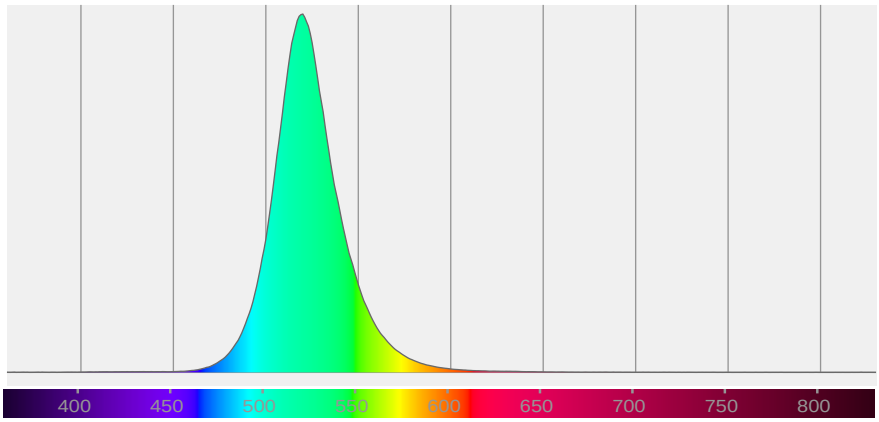
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:21:49



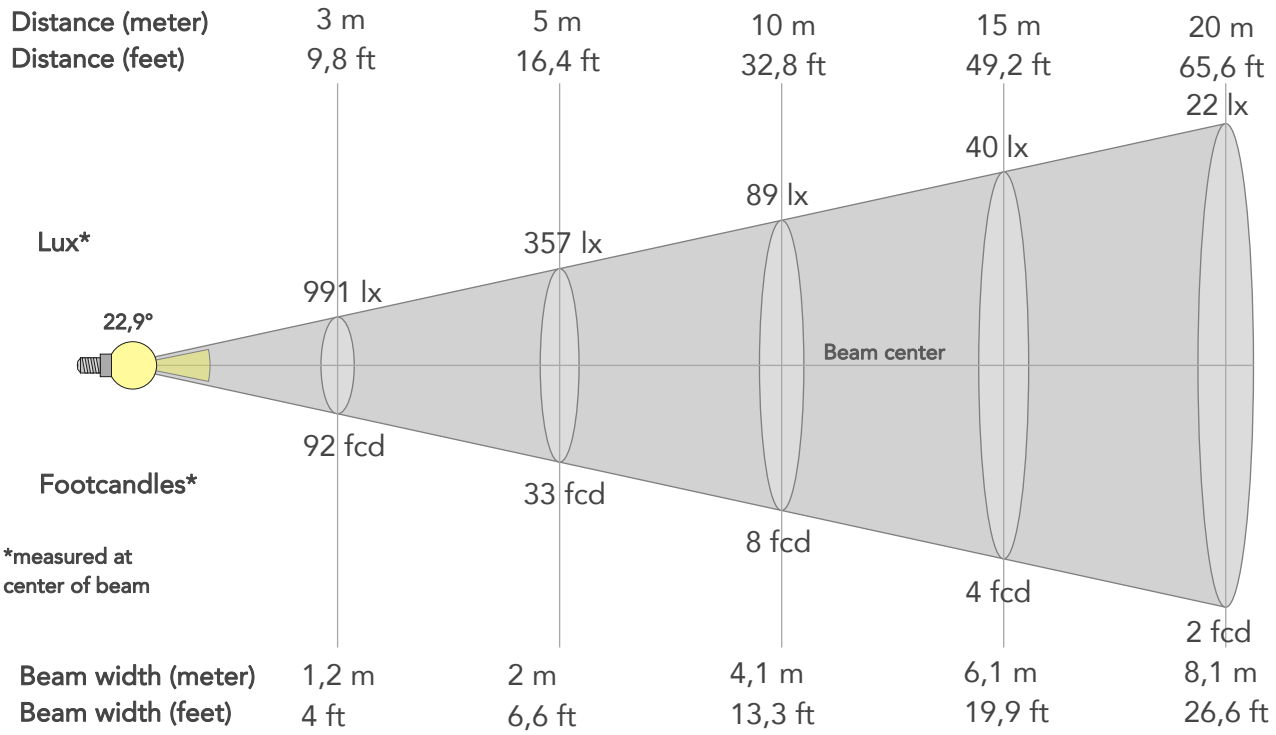
Beam angle 50%: 22,9°
Field angle 10%: 39°
Cut off angle 2.5%: 56,9°

Spectra



BEAM DETAILS

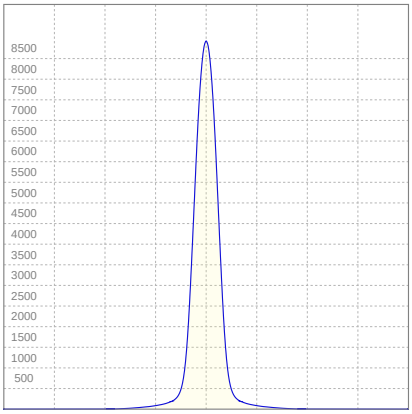
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,9°	39°	56,9°	97,1%	92,9%



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	8920lx	2230lx	991lx	558lx	357lx	159lx	89lx	40lx	22lx	14lx	10lx	6lx	4lx
Footcand.	829fcd	207fcd	92fcd	52fcd	33fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4,1m	6,1m	8,1m	10,1m	12,2m	16,2m	20,3m
Beam wid.	1,3ft	2,7ft	4ft	5,3ft	6,6ft	10ft	13,3ft	19,9ft	26,6ft	33,2ft	39,9ft	53,1ft	66,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,235A	38,4W	46lm/W

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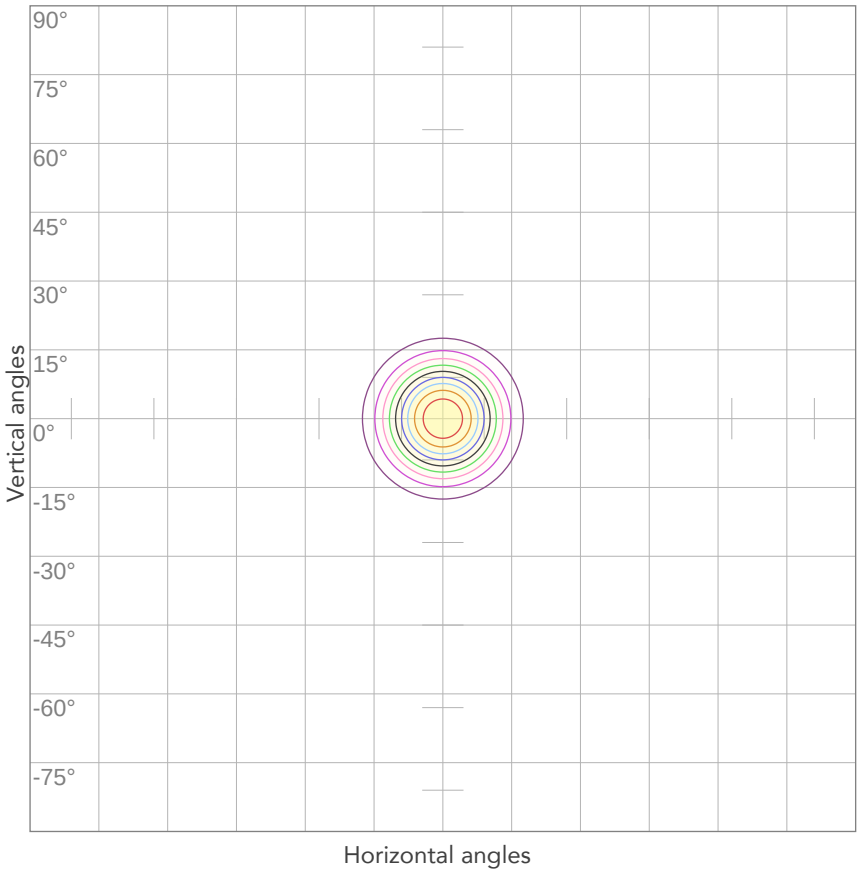
ISO DIAGRAMS

ISO CANDELA DIAGRAM



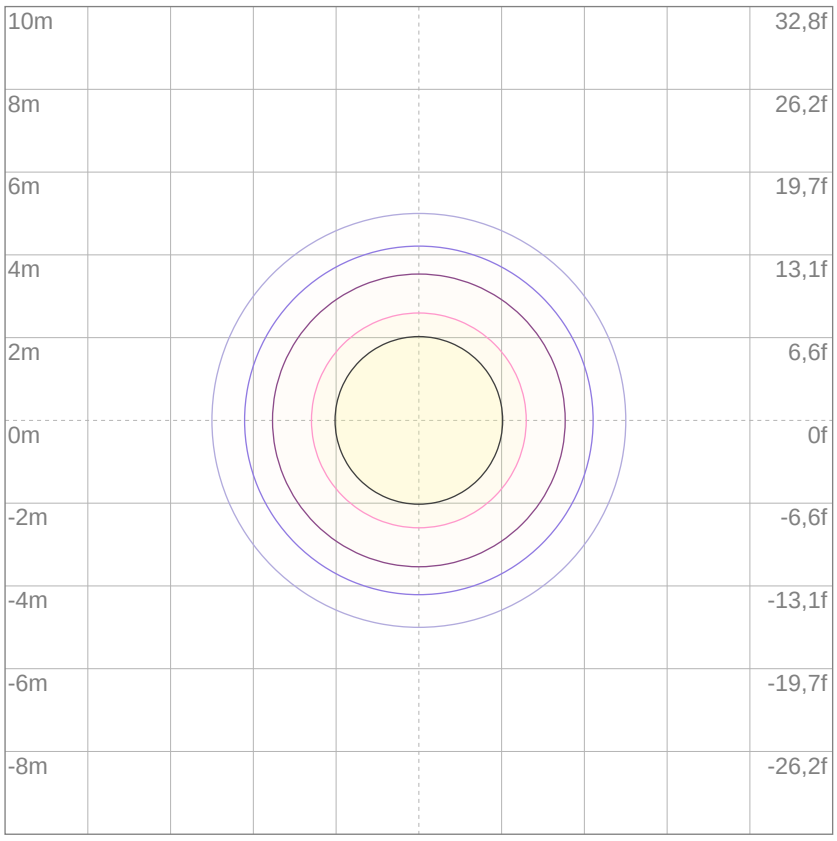
10%	892 cd
20%	1784 cd
30%	2676 cd
40%	3568 cd
50%	4460 cd
60%	5352 cd
70%	6244 cd
80%	7136 cd

Conditions:

Number of c-planes: 2

Candela at center: 8920 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,68 lx
5%	4,46 lx
10%	8,92 lx
30%	26,8 lx
50%	44,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 89,2 lx

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

Total lumen output:

1719 lm

Peak candela output:

1299 cd

PRODUCT NAME:

ECLPAR FC

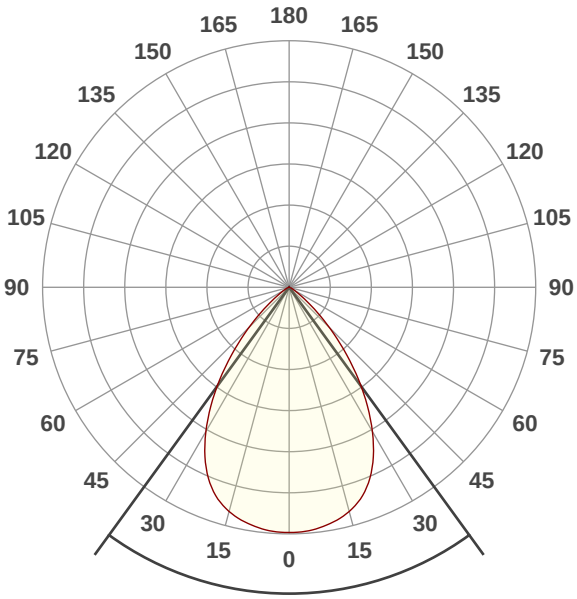
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
Green

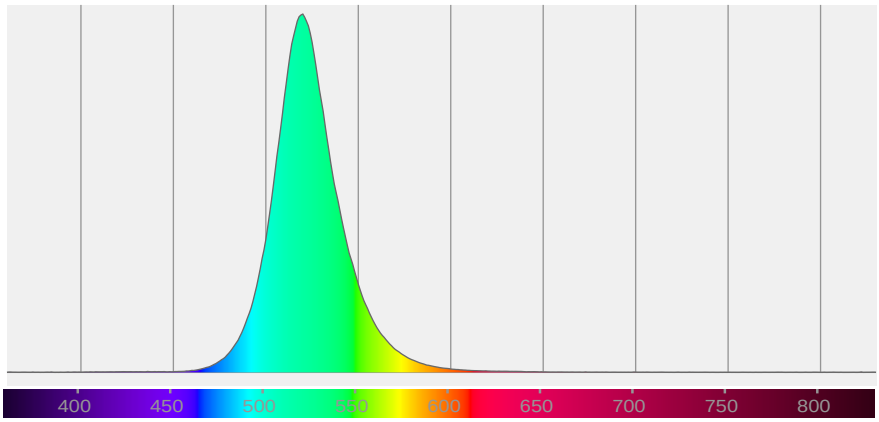
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:53:41



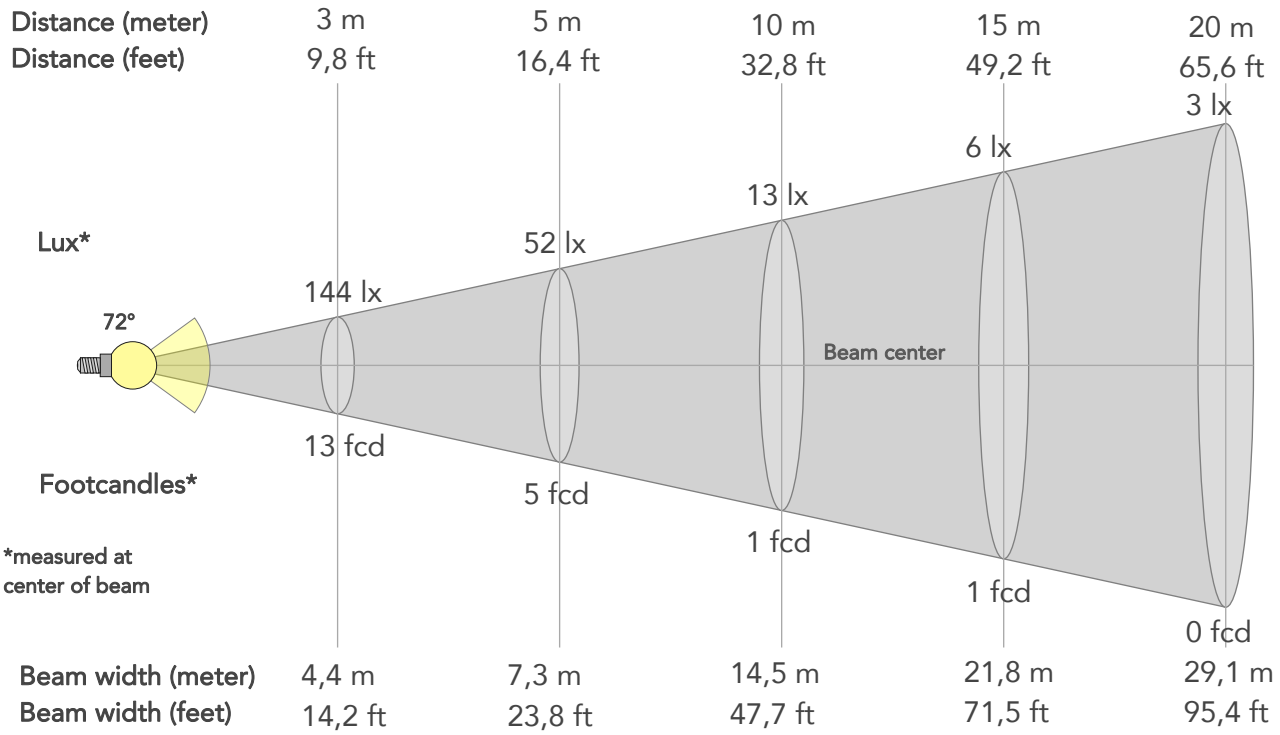
Beam angle 50%: 72°
Field angle 10%: 102,4°
Cut off angle 2.5%: 120,6°

Spectra



BEAM DETAILS

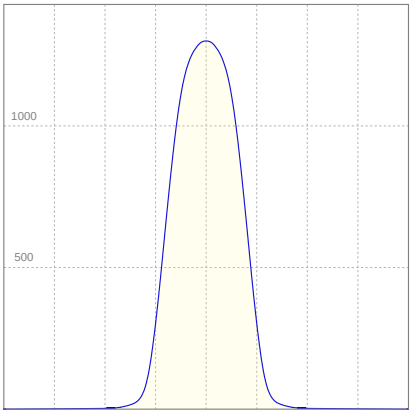
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72°	102,4°	120,6°	97,5%	88,2%



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	1299lx	325lx	144lx	81lx	52lx	23lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx
Footcand.	121fcd	30fcd	13fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	2,9m	4,4m	5,8m	7,3m	10,9m	14,5m	21,8m	29,1m	36,3m	43,6m	58,2m	72,7m
Beam wid.	4,8ft	9,6ft	14,2ft	19ft	23,8ft	35,8ft	47,7ft	71,5ft	95,4ft	119,2ft	143,1ft	190,7ft	238,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,236A	38,3W	45lm/W

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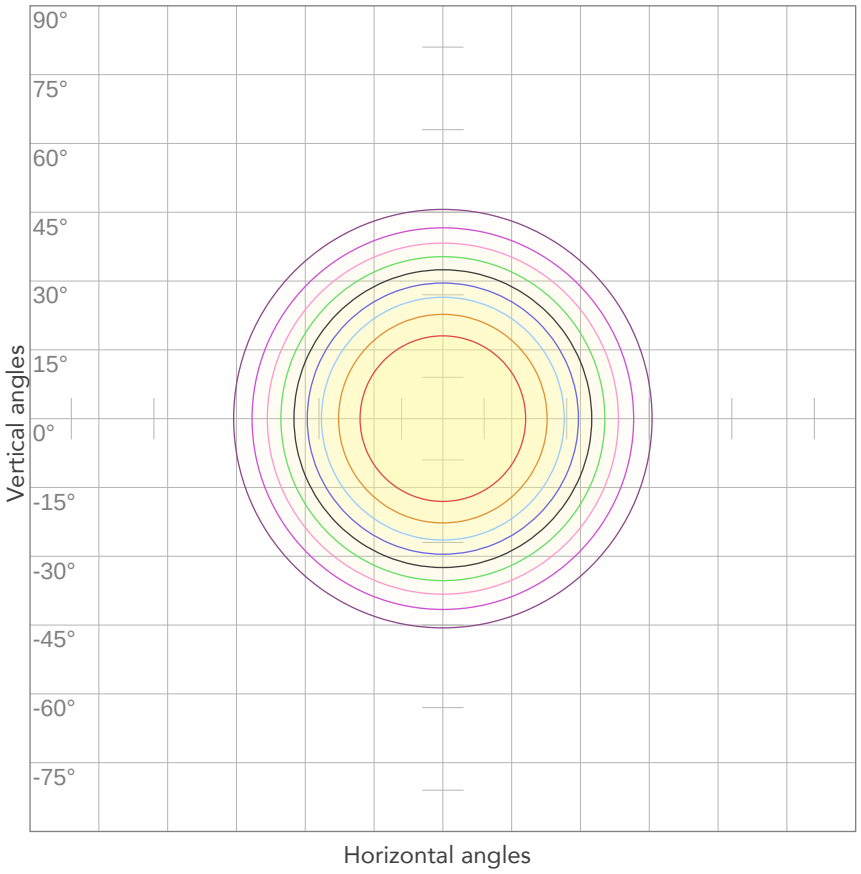
ISO DIAGRAMS

ISO CANDELA DIAGRAM



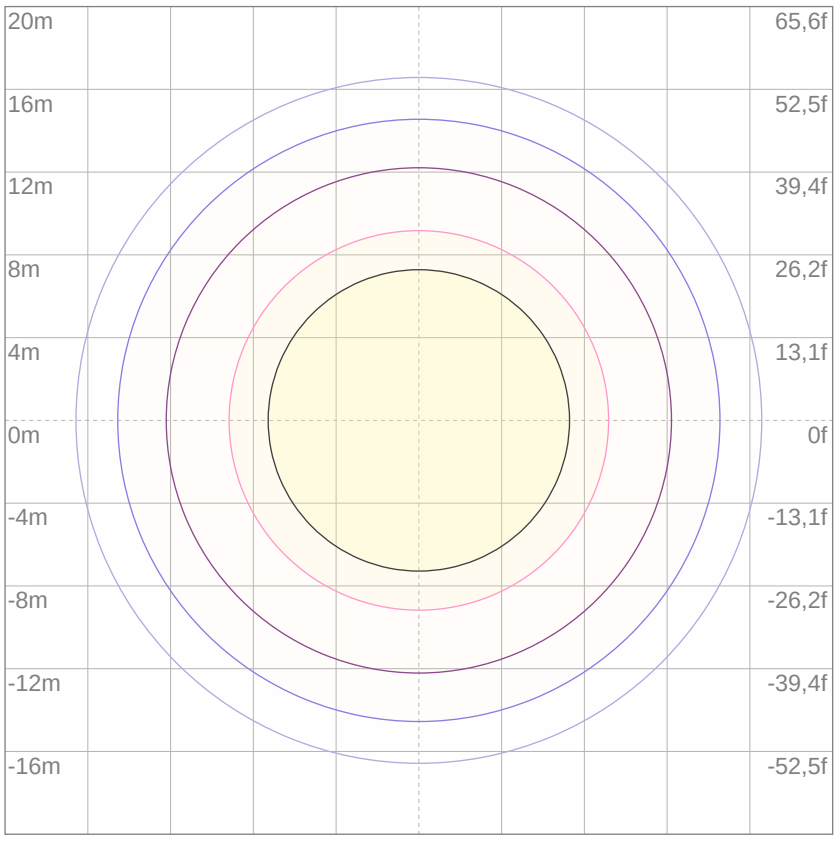
10%	130 cd
20%	260 cd
30%	390 cd
40%	520 cd
50%	649 cd
60%	779 cd
70%	909 cd
80%	1039 cd

Conditions:

Number of c-planes: 2

Candela at center: 1299 cd

ISO LUX DIAGRAM



3%	0,390 lx
5%	0,649 lx
10%	1,30 lx
30%	3,90 lx
50%	6,49 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,0 lx

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

Total lumen output:

296 lm

Peak candela output:

1390 cd

PRODUCT NAME:

ECLPAR FC

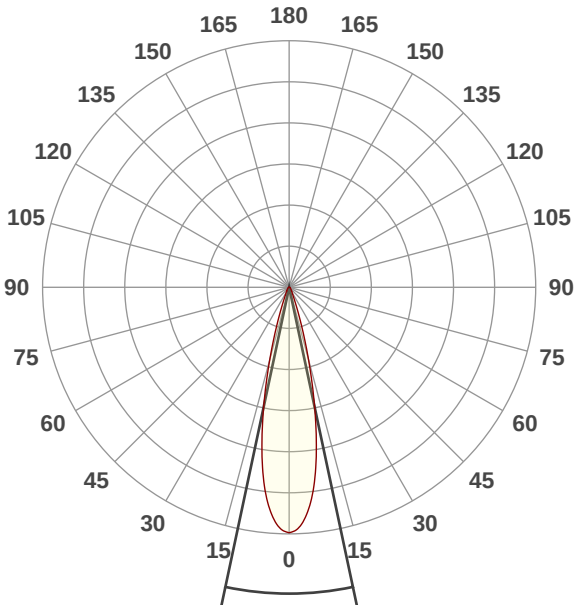
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Blue

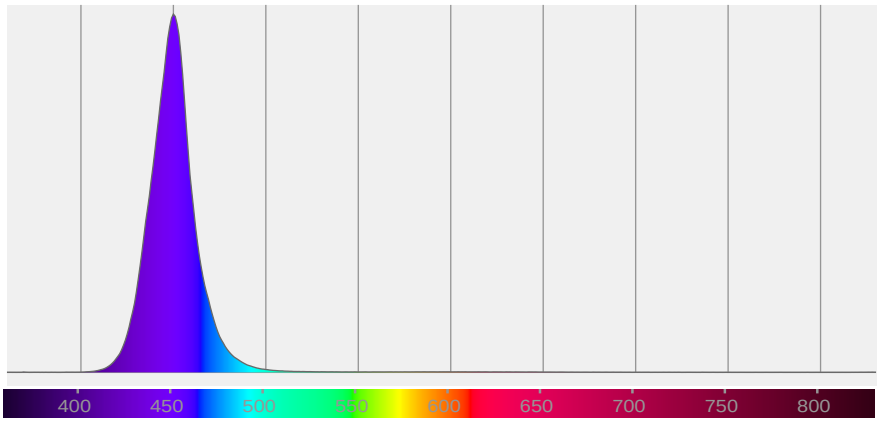
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:31:57



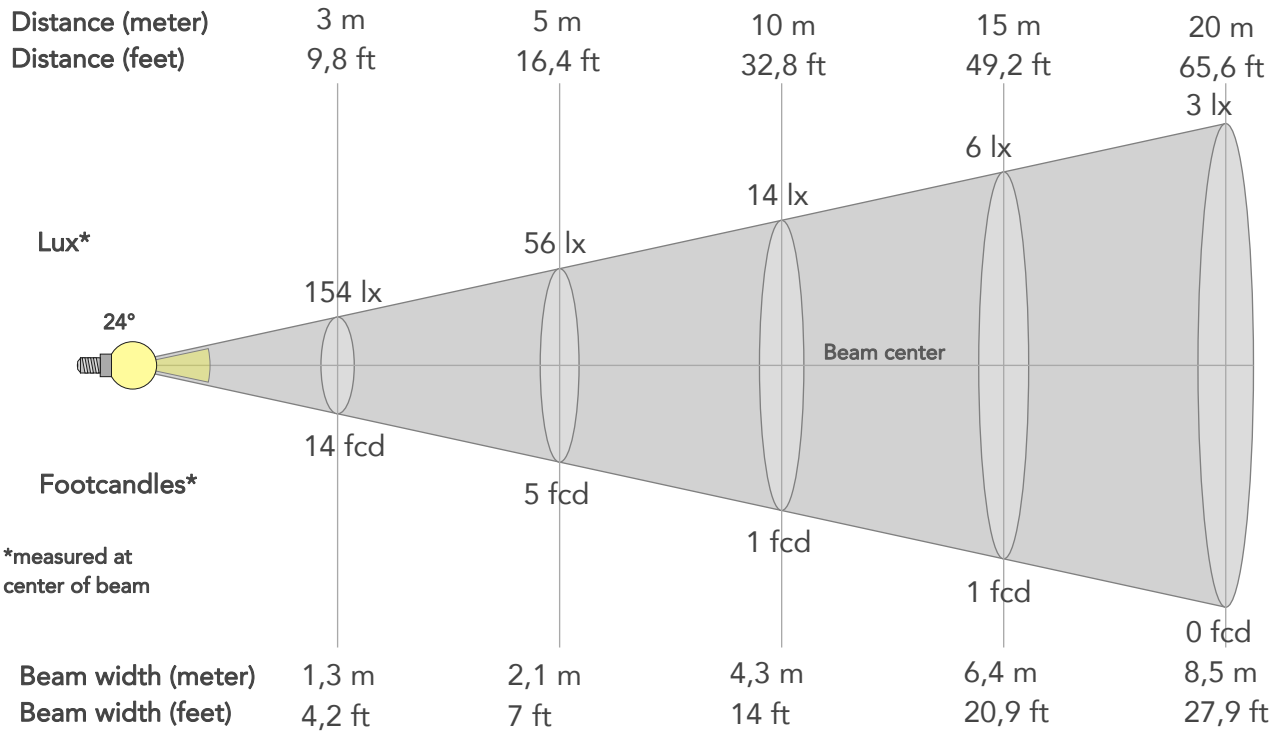
Beam angle 50%: 24°
Field angle 10%: 40,2°
Cut off angle 2.5%: 58,1°

Spectra



BEAM DETAILS

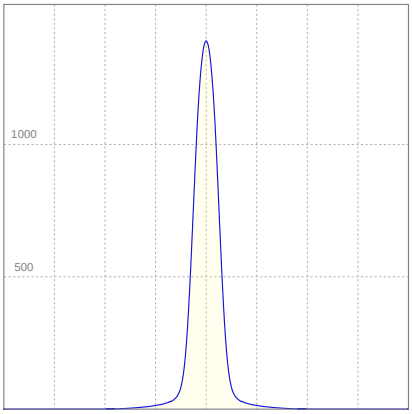
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24°	40,2°	58,1°	97,1%	93,0%



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	1390lx	347lx	154lx	87lx	56lx	25lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	129fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,4m	0,9m	1,3m	1,7m	2,1m	3,2m	4,3m	6,4m	8,5m	10,6m	12,8m	17m	21,3m
Beam wid.	1,4ft	2,8ft	4,2ft	5,6ft	7ft	10,5ft	14ft	20,9ft	27,9ft	34,9ft	41,9ft	55,8ft	69,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,208A	31,5W	9lm/W

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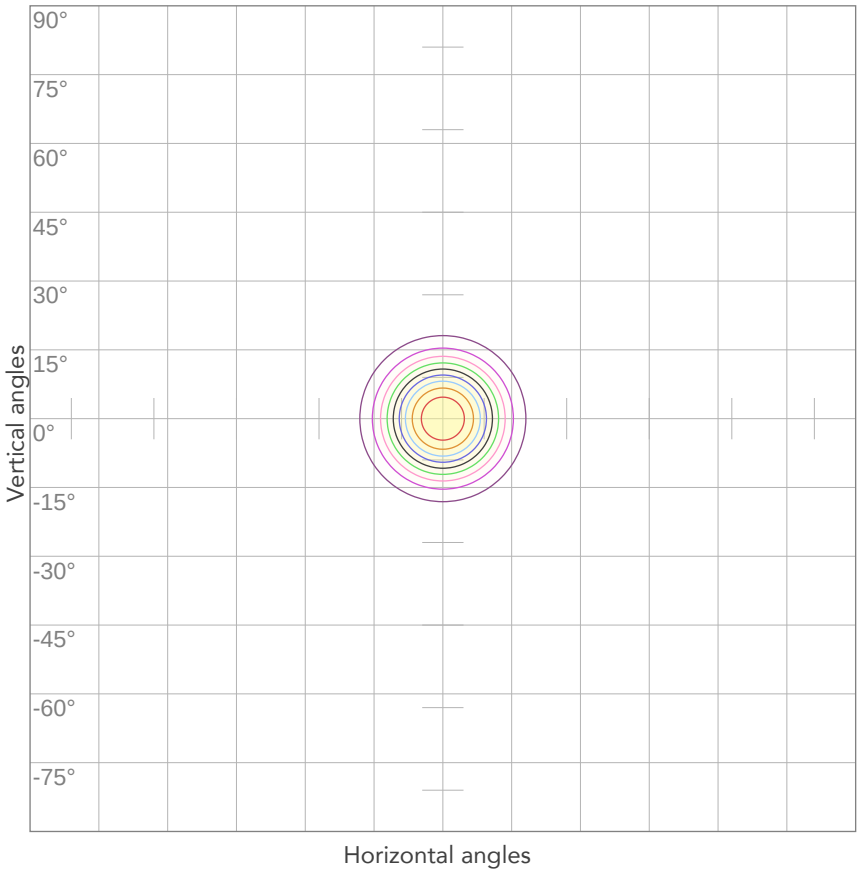
ISO DIAGRAMS

ISO CANDELA DIAGRAM



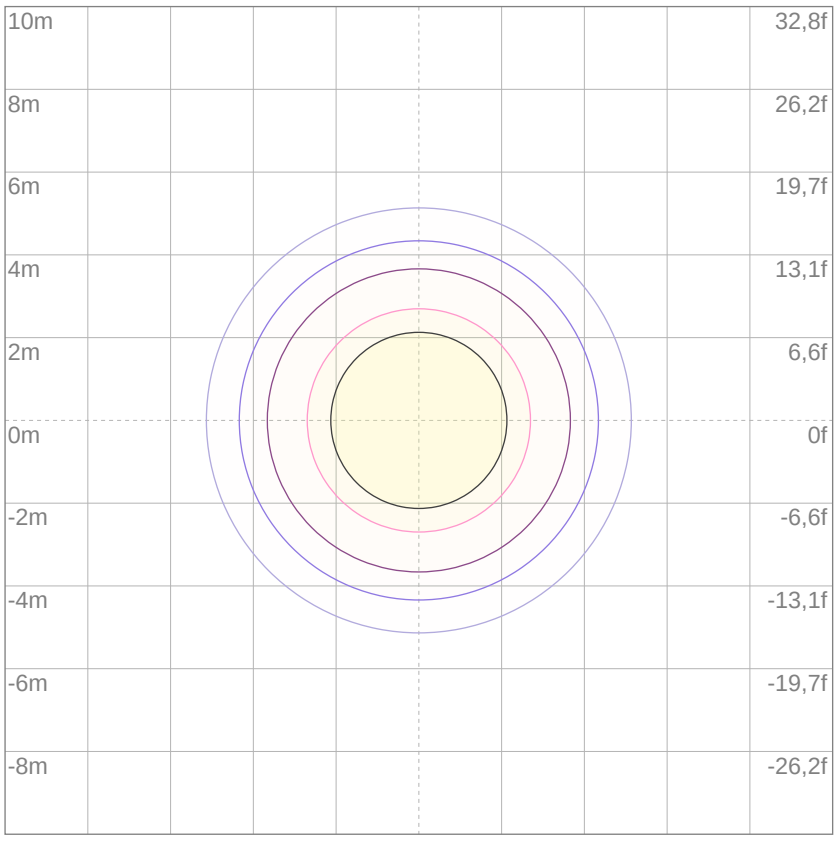
10%	139 cd
20%	278 cd
30%	417 cd
40%	556 cd
50%	695 cd
60%	834 cd
70%	973 cd
80%	1112 cd

Conditions:

Number of c-planes: 2

Candela at center: 1390 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,417 lx
5%	0,695 lx
10%	1,39 lx
30%	4,17 lx
50%	6,95 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,9 lx

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

Total lumen output:

291 lm

Peak candela output:

209 cd

PRODUCT NAME:

ECLPAR FC

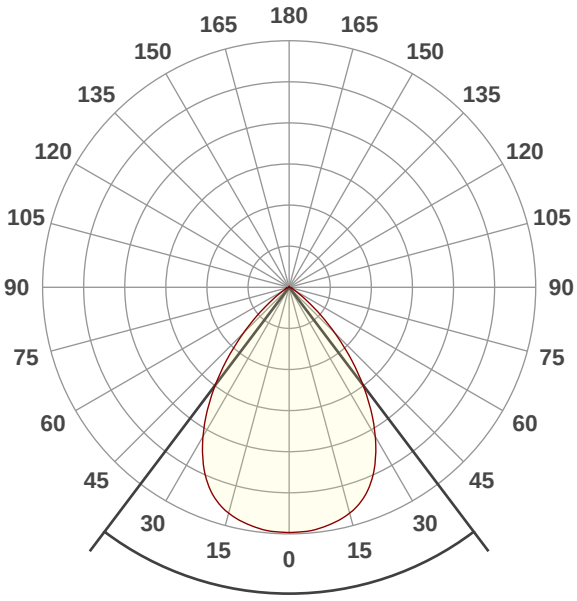
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
Blue

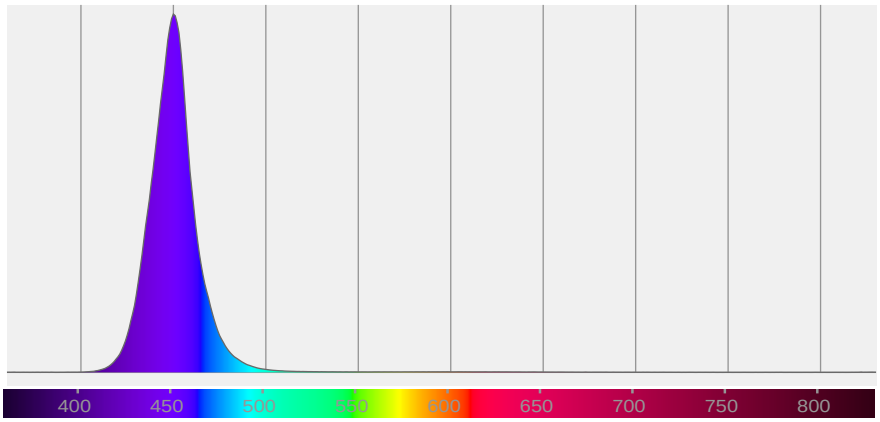
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:55:20



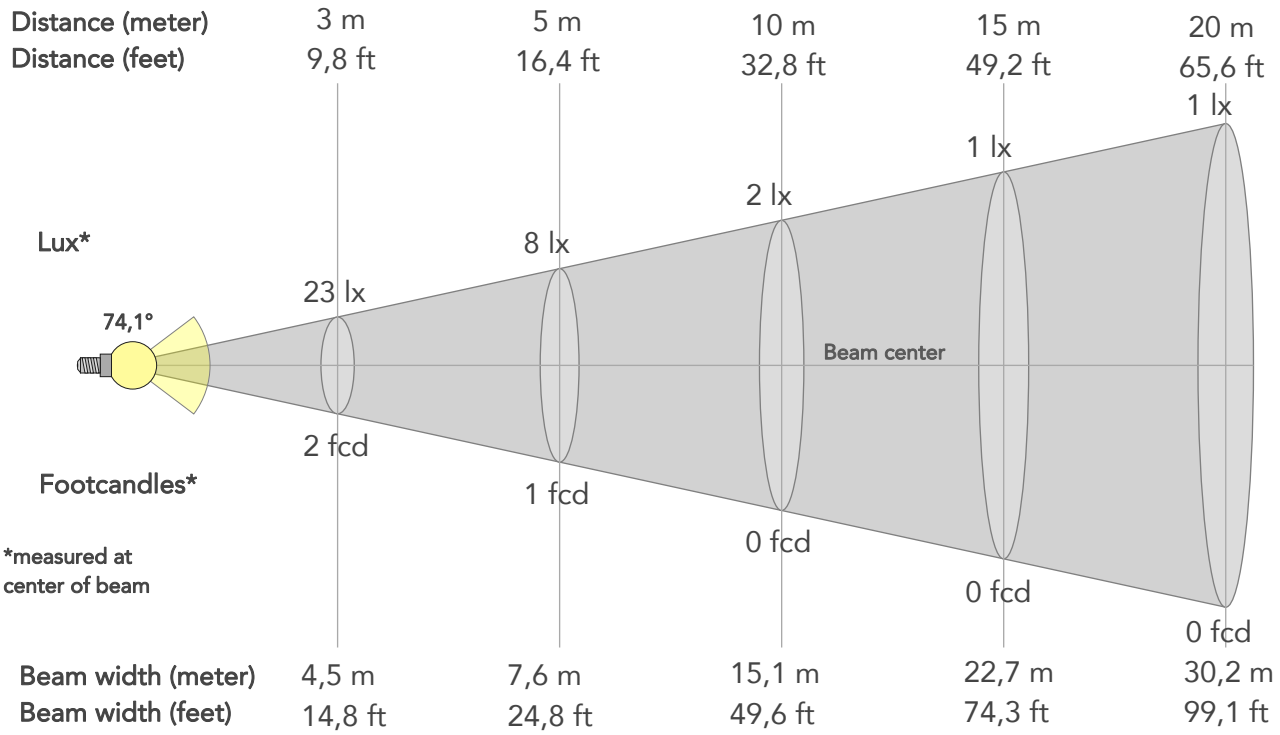
Beam angle 50%: 74,1°
Field angle 10%: 104,5°
Cut off angle 2.5%: 122,8°

Spectra



BEAM DETAILS

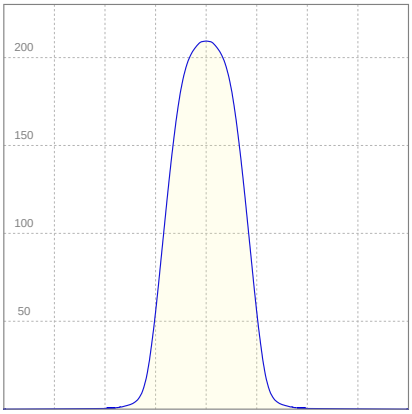
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,1°	104,5°	122,8°	97,5%	87,0%



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	209lx	52lx	23lx	13lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	19fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,5m	6m	7,6m	11,3m	15,1m	22,7m	30,2m	37,8m	45,3m	60,4m	75,5m
Beam wid.	5ft	10ft	14,8ft	19,8ft	24,8ft	37,2ft	49,6ft	74,3ft	99,1ft	123,9ft	148,7ft	198,2ft	247,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,207A	31,4W	9lm/W

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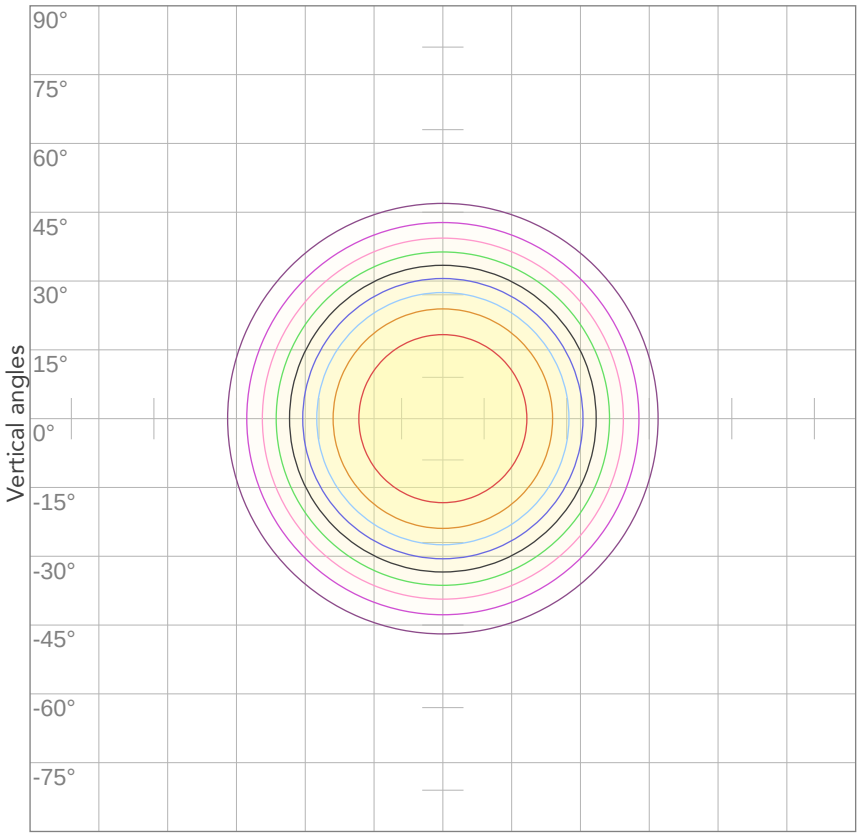
ISO DIAGRAMS

ISO CANDELA DIAGRAM



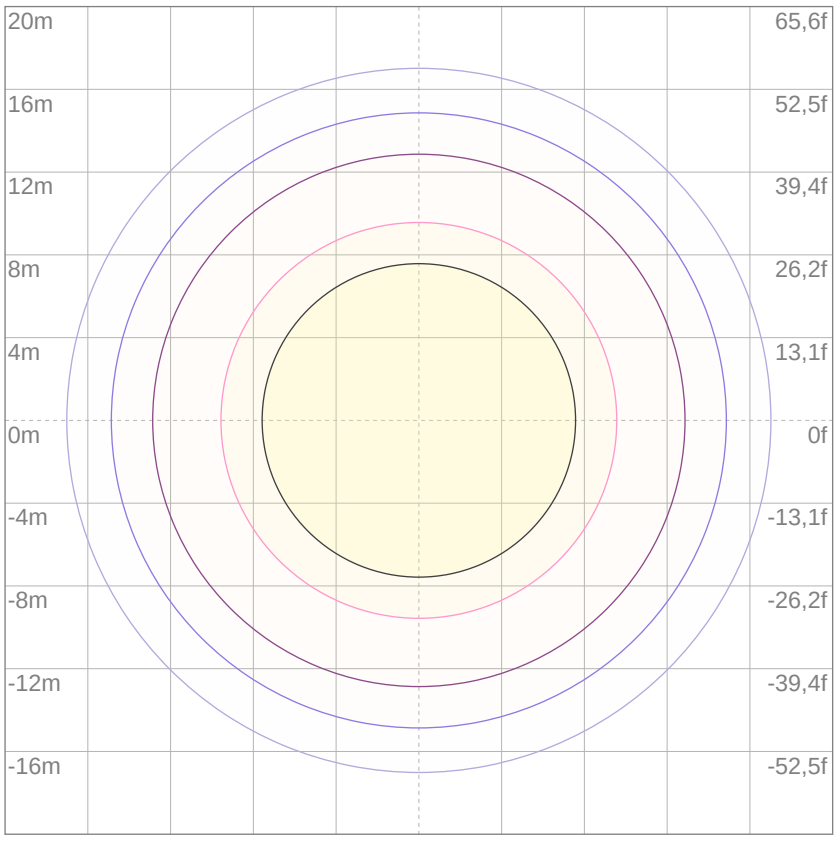
10%	21 cd
20%	42 cd
30%	63 cd
40%	84 cd
50%	105 cd
60%	126 cd
70%	147 cd
80%	167 cd

Conditions:

Number of c-planes: 2

Candela at center: 209 cd

ISO LUX DIAGRAM



3%	62,8m lx
5%	0,105 lx
10%	0,209 lx
30%	0,628 lx
50%	1,05 lx

Conditions:

Number of c-planes: 2

Lux at center: 2,09 lx

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

Total lumen output:

4201 lm

Peak candela output:

16233 cd

PRODUCT NAME:

ECLPAR FC

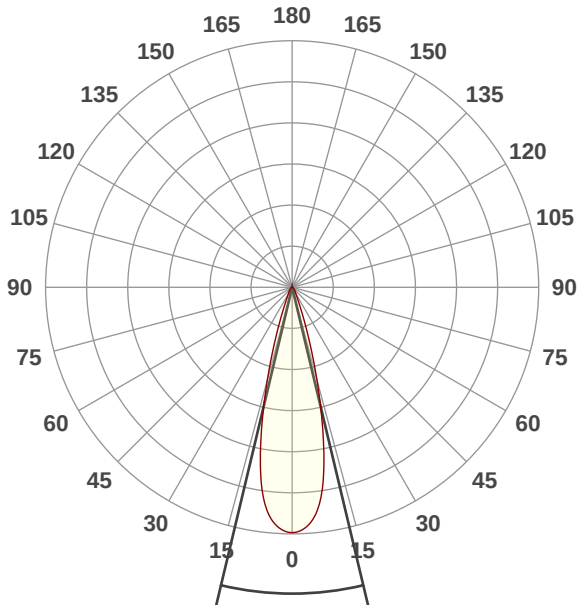
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
White

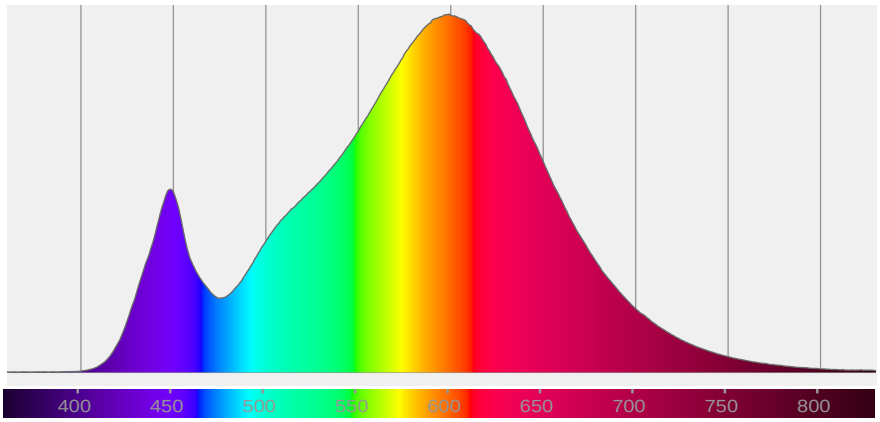
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:34:24



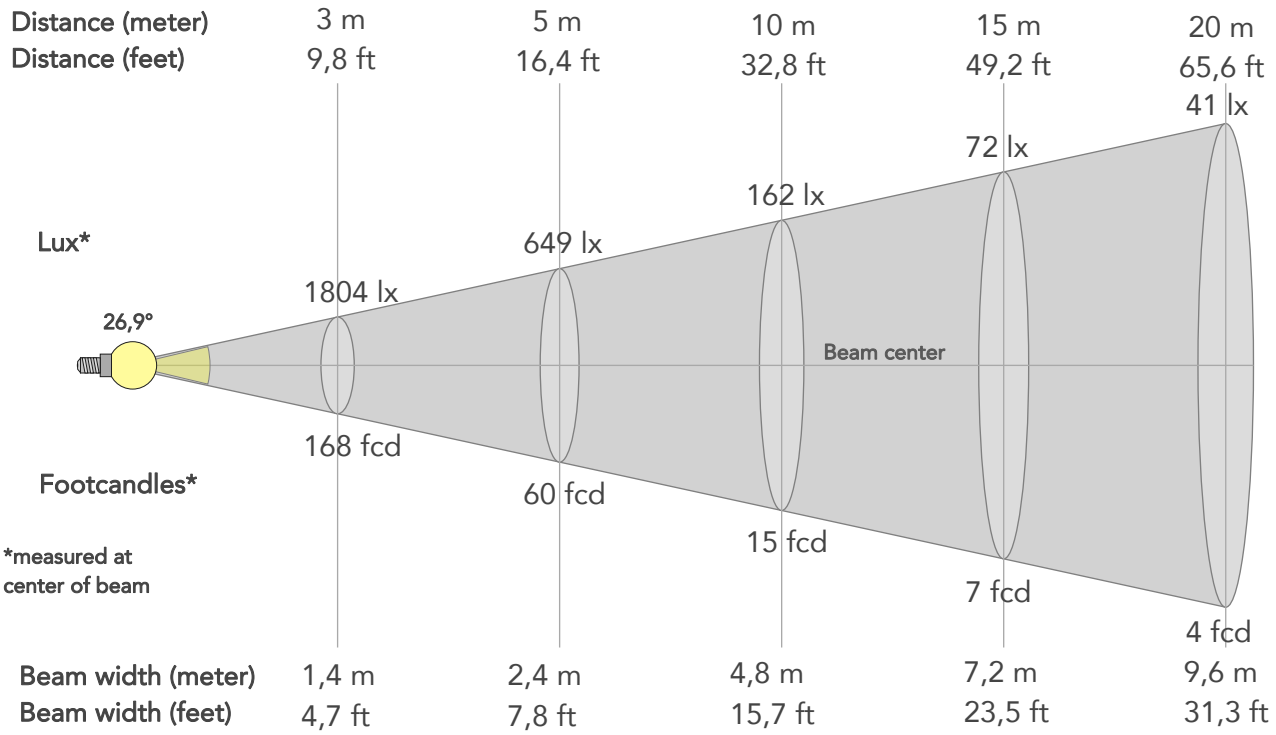
Beam angle 50%: 26,9°
Field angle 10%: 43,3°
Cut off angle 2.5%: 65,4°

Spectra



BEAM DETAILS

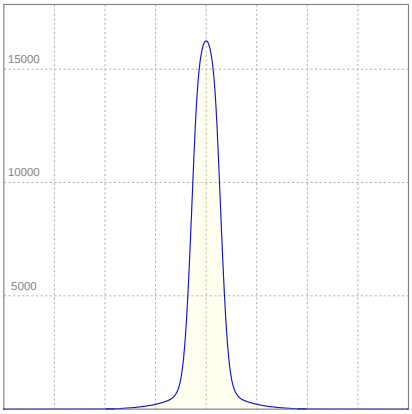
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,9°	43,3°	65,4°	96,7%	92,3%



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	16233lx	4058lx	1804lx	1015lx	649lx	289lx	162lx	72lx	41lx	26lx	18lx	10lx	6lx
Footcand.	1508fcd	377fcd	168fcd	94fcd	60fcd	27fcd	15fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	11,9m	14,3m	19,1m	23,9m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,8ft	11,7ft	15,7ft	23,5ft	31,3ft	39,2ft	47ft	62,7ft	78,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,445A	87,2W	48lm/W

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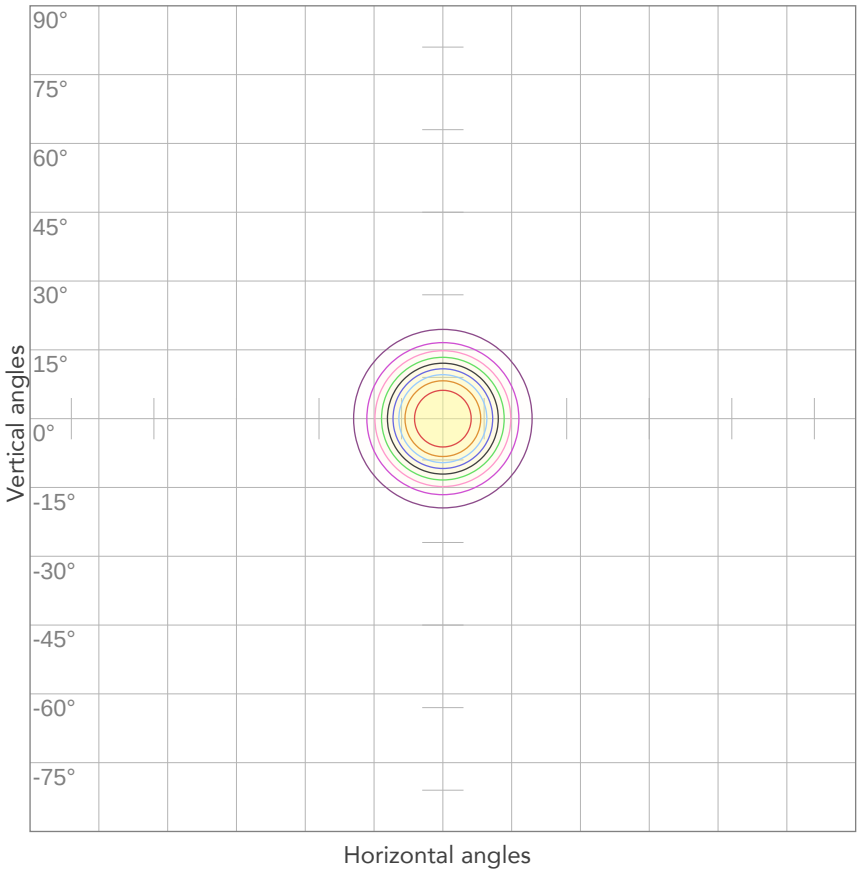
ISO DIAGRAMS

ISO CANDELA DIAGRAM



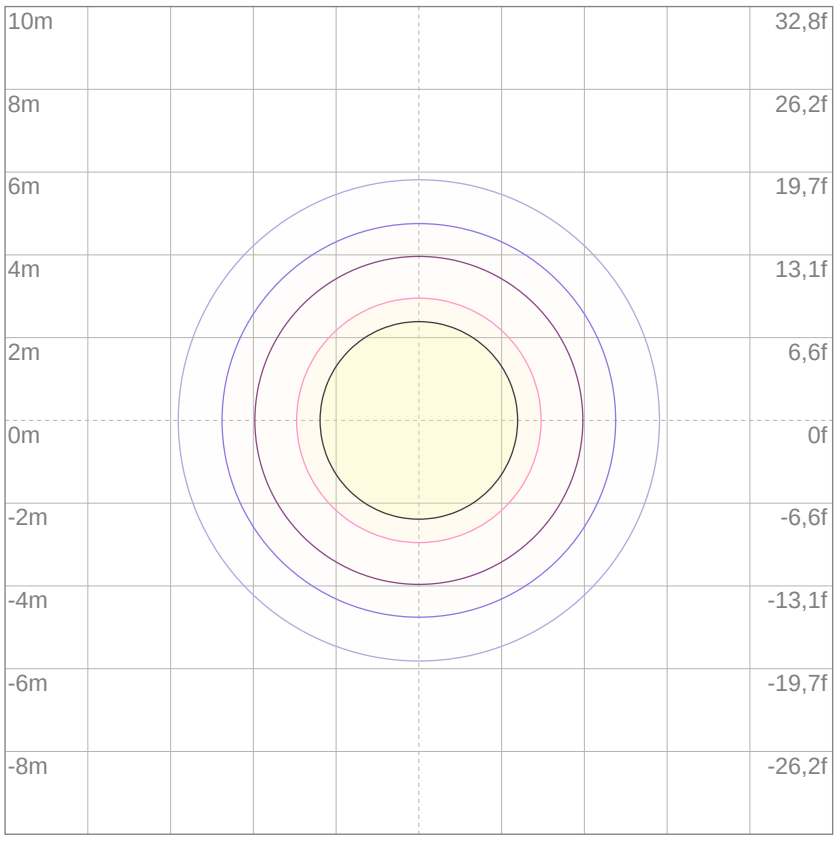
10%	1623 cd
20%	3247 cd
30%	4870 cd
40%	6493 cd
50%	8116 cd
60%	9740 cd
70%	11363 cd
80%	12986 cd

Conditions:

Number of c-planes: 2

Candela at center: 16233 cd

ISO LUX DIAGRAM



3%	4,87 lx
5%	8,12 lx
10%	16,2 lx
30%	48,7 lx
50%	81,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 162 lx

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

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Total lumen output:

3960 lm

Peak candela output:

2754 cd

PRODUCT NAME:

ECLPAR FC

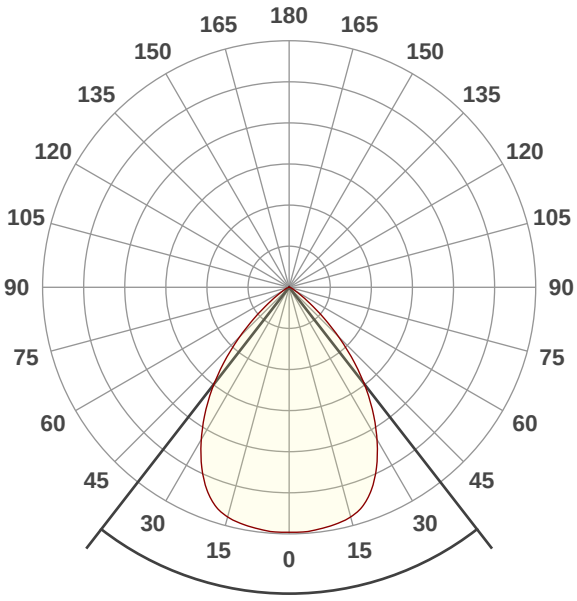
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
White

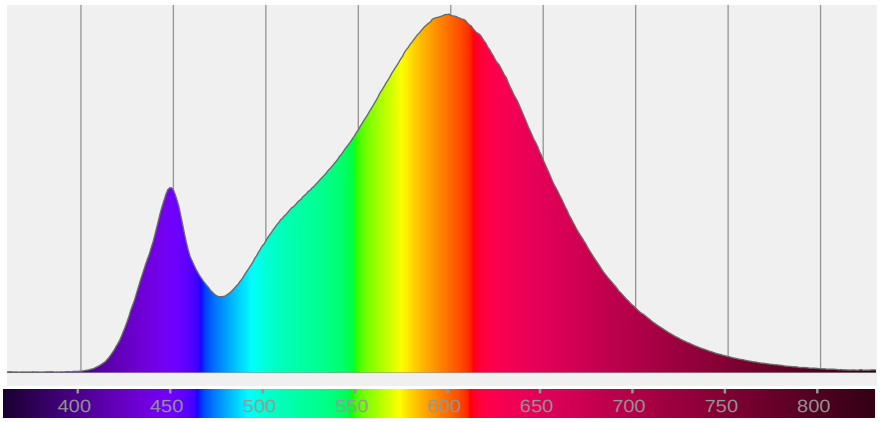
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:56:54



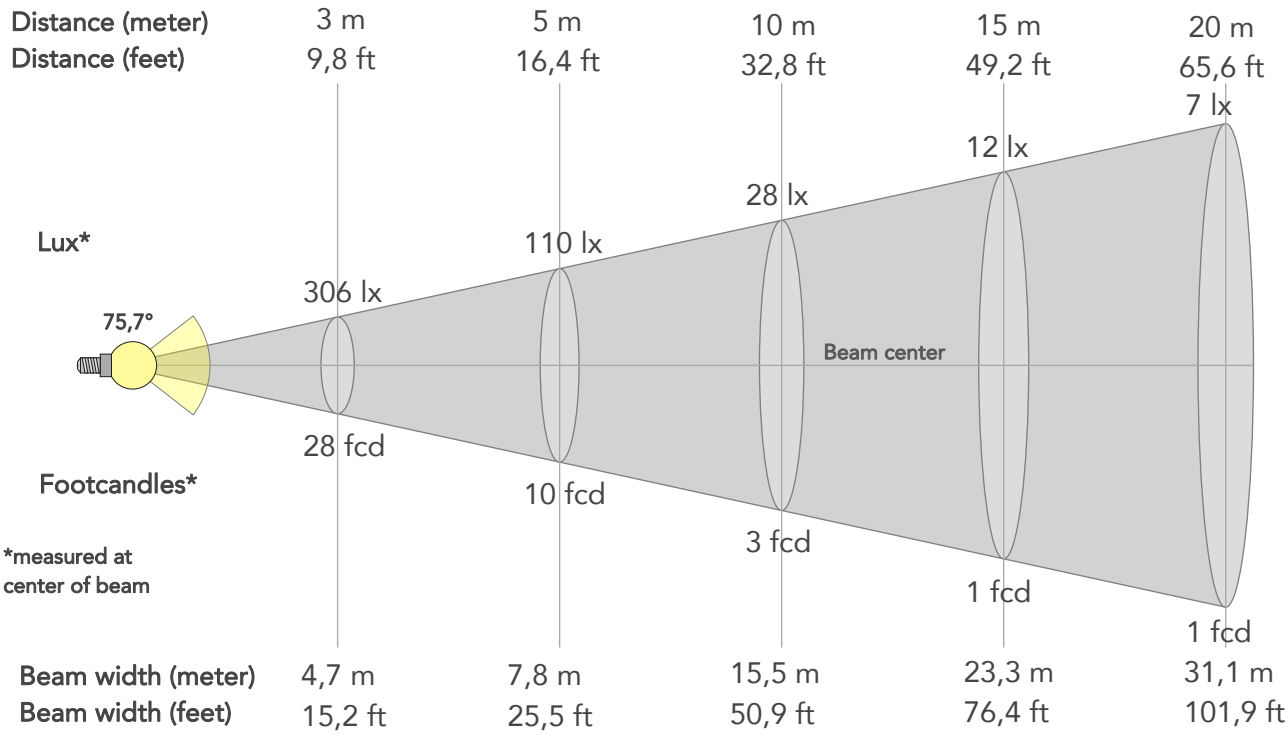
Beam angle 50%: 75,7°
Field angle 10%: 105,5°
Cut off angle 2.5%: 123,4°

Spectra



BEAM DETAILS

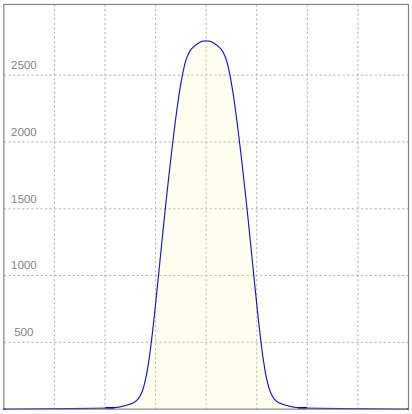
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75,7°	105,5°	123,4°	97,1%	86,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2754lx	688lx	306lx	172lx	110lx	49lx	28lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	256fcd	64fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,1m	4,7m	6,2m	7,8m	11,6m	15,5m	23,3m	31,1m	38,8m	46,6m	62,1m	77,7m
Beam wid.	5,1ft	10,3ft	15,2ft	20,3ft	25,5ft	38,2ft	50,9ft	76,4ft	101,9ft	127,4ft	152,8ft	203,8ft	254,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,443A	87,2W	45lm/W

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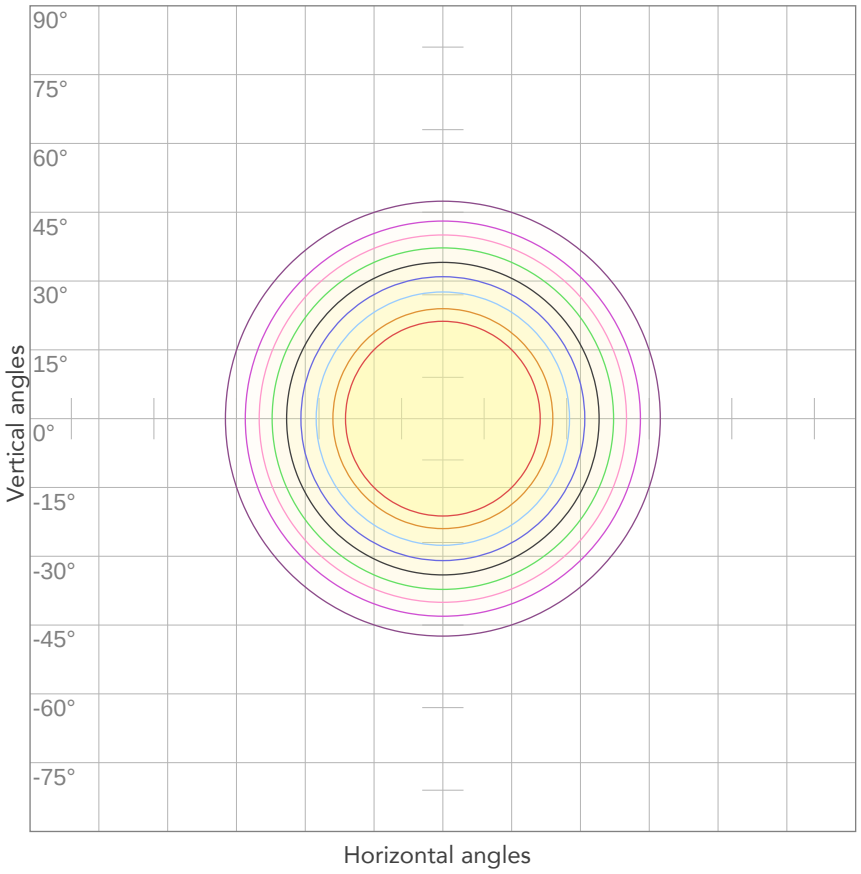
ISO DIAGRAMS

ISO CANDELA DIAGRAM



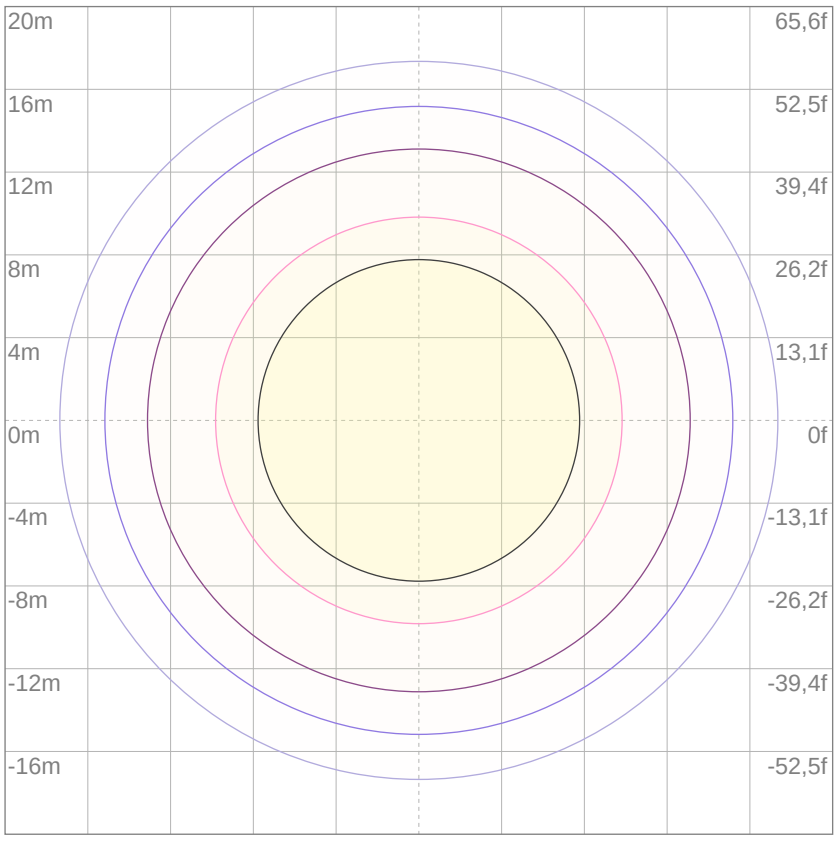
10%	275 cd
20%	551 cd
30%	826 cd
40%	1102 cd
50%	1377 cd
60%	1652 cd
70%	1928 cd
80%	2203 cd

Conditions:

Number of c-planes: 2

Candela at center: 2754 cd

ISO LUX DIAGRAM



3%	0,826 lx
5%	1,38 lx
10%	2,75 lx
30%	8,26 lx
50%	13,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 27,5 lx

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

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Total lumen output:

4487 lm

Peak candela output:

18280 cd

Light quality:

CRI: 95,5

Color temperature:

2780 K

PRODUCT NAME:

ECLPAR FC

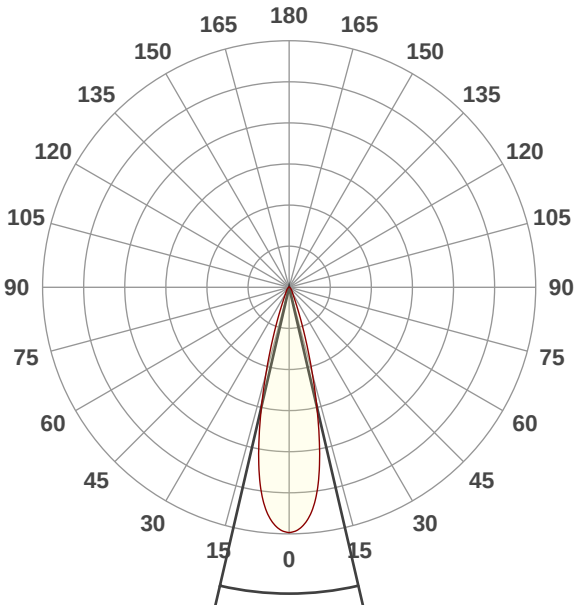
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
2800K

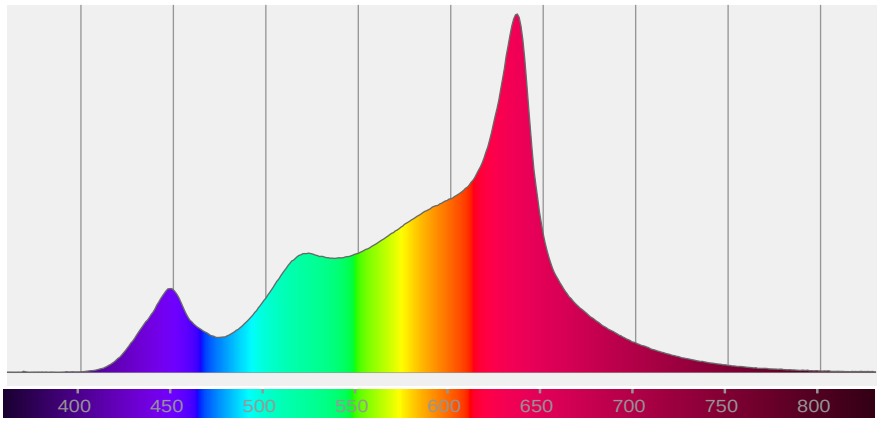
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:37:20

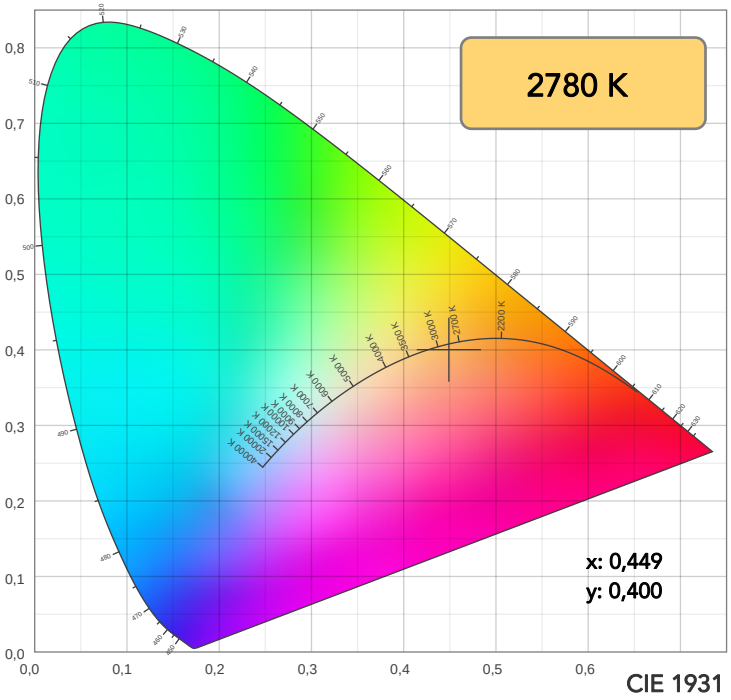


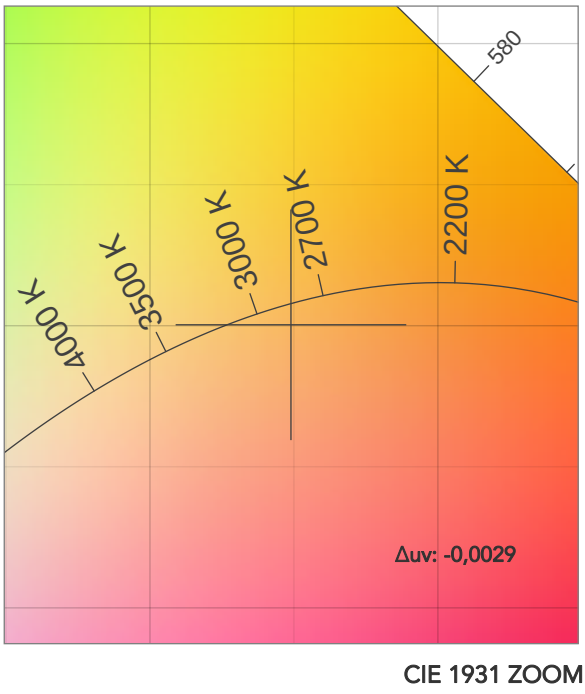
Beam angle 50%: 26,1°
Field angle 10%: 42,6°
Cut off angle 2.5%: 63,4°

Spectra

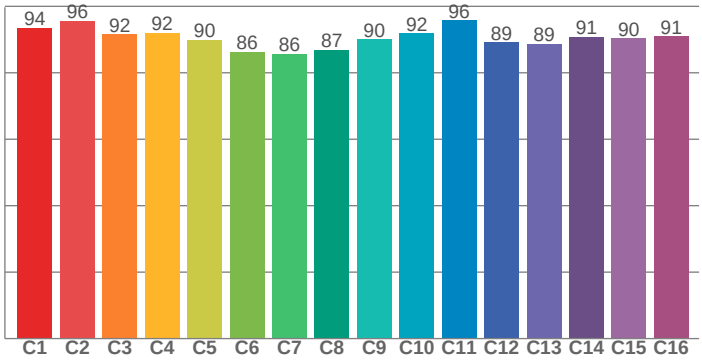


COLOR DETAILS

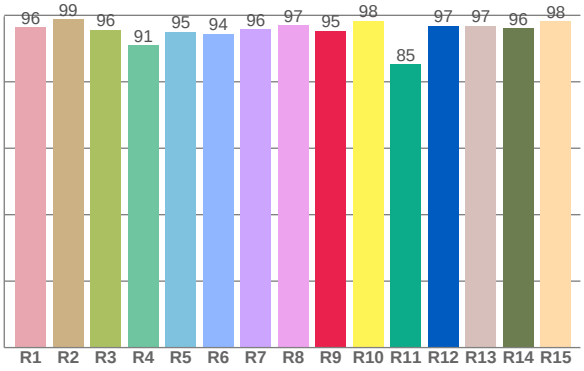




TM30: 91,2



CRI: 95,5 (R1-R8)



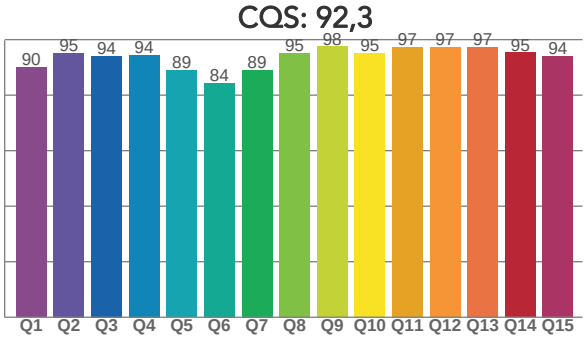
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,3	98,7	95,7	91,1	95,1	94,4	95,8	97,1	95,4	98,3	85,3	96,9	96,9	96,1	98,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	95,6	91,6	91,9	89,8	86,3	85,6	86,9	90,1	91,8	95,7	89,1	88,7	90,8	90,4	90,9

CQS: 92,3



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,0	95,1	94,1	94,5	89,0	84,4	89,0	95,2	97,5	95,2	97,3	97,3	97,3	95,3	94,1

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2780 K	95,5	95,4	91,2	105,7	92,3	84	0,449	0,400	-0,0029

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TM30 DETAILS

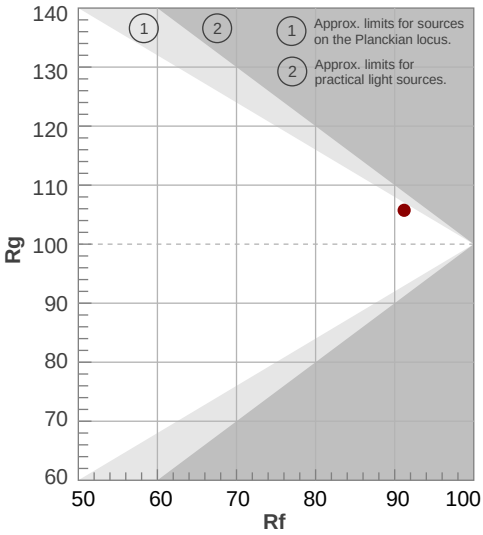
Rf 91,2

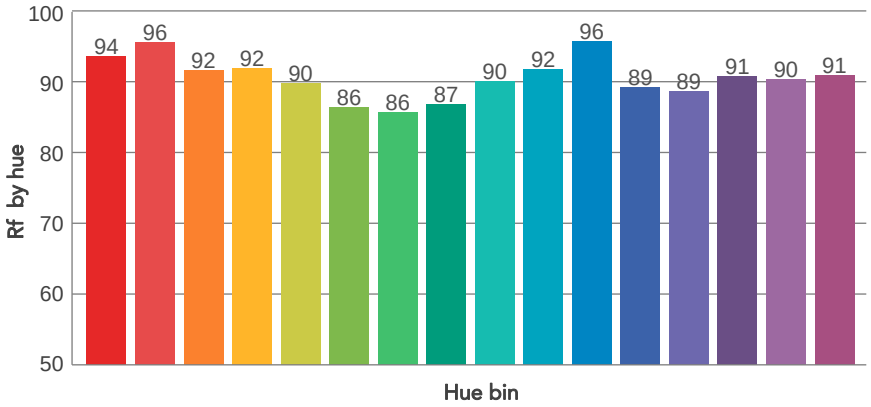
Fidelity index Rf

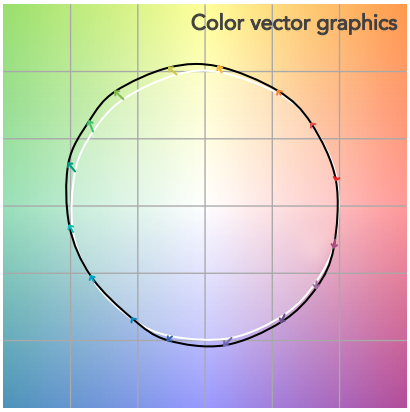
Rg 105,7

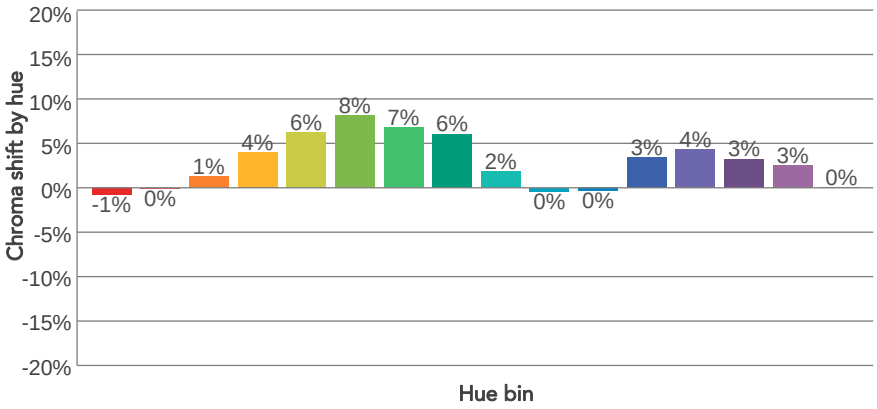
Gammut index

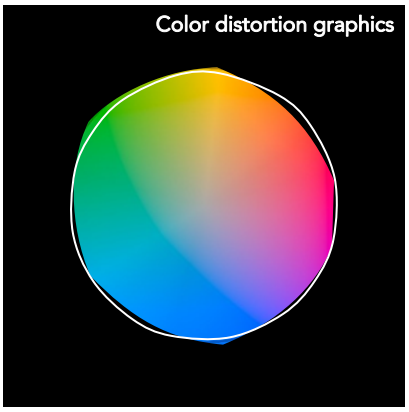
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	94	-1%	-2%
2	96	0%	1%
3	92	1%	3%
4	92	4%	3%
5	90	6%	5%
6	86	8%	2%
7	86	7%	-5%
8	87	6%	-5%
9	90	2%	-5%
10	92	0%	-5%
11	96	0%	-1%
12	89	3%	-3%
13	89	4%	-6%
14	91	3%	-5%
15	90	3%	-4%
16	91	0%	-6%

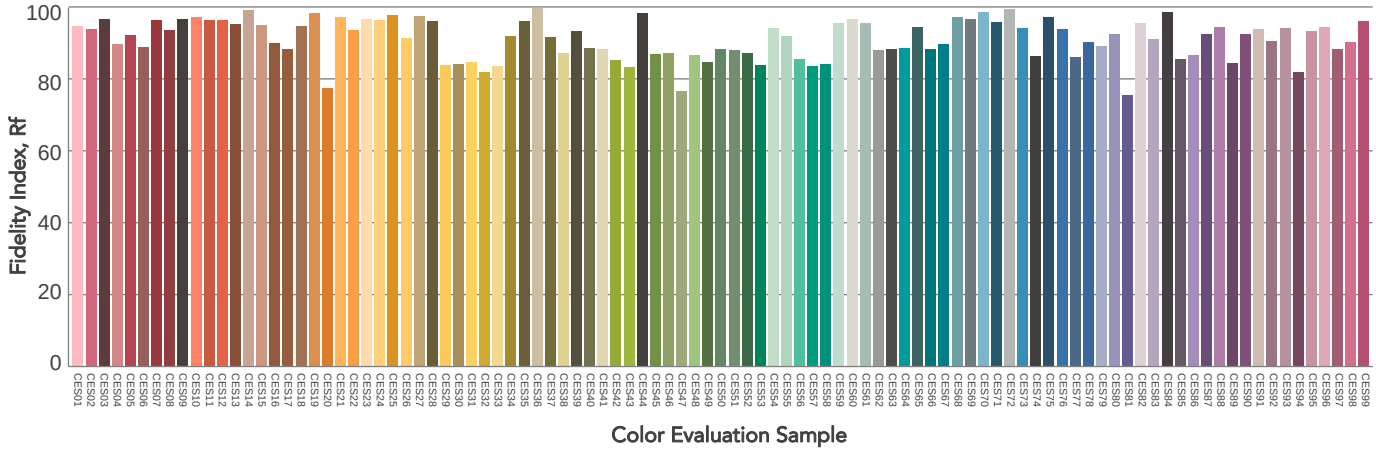












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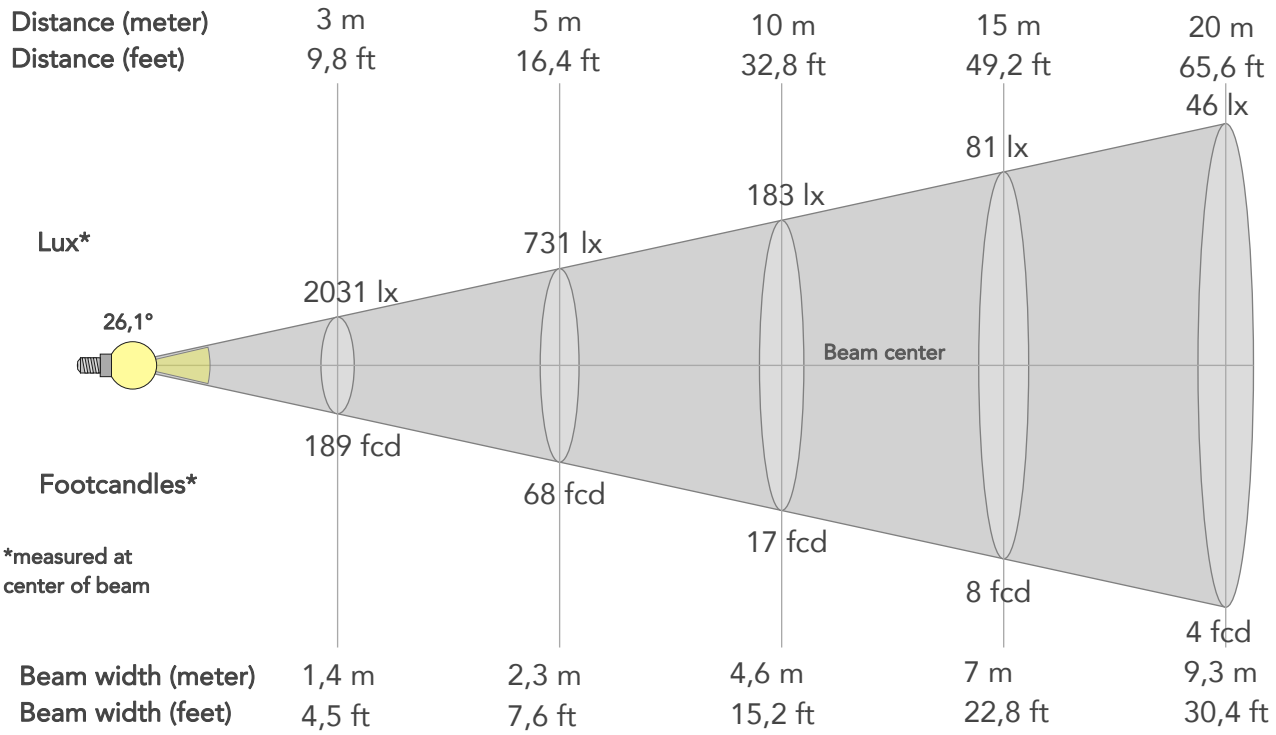
BEAM DETAILS

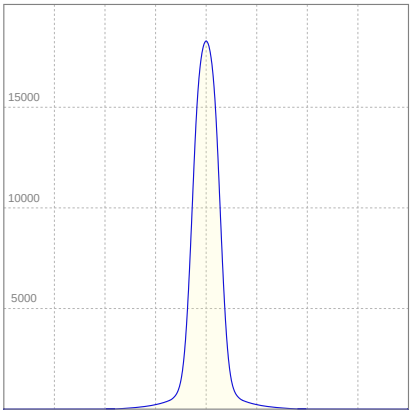
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26,1°	42,6°	63,4°	97,3%	92,9%



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	18280lx	4570lx	2031lx	1143lx	731lx	325lx	183lx	81lx	46lx	29lx	20lx	11lx	7lx
Footcand.	1698fcd	425fcd	189fcd	106fcd	68fcd	30fcd	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	4,5ft	6,1ft	7,6ft	11,4ft	15,2ft	22,8ft	30,4ft	38ft	45,7ft	60,9ft	76,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,475A	94,1W	48lm/W

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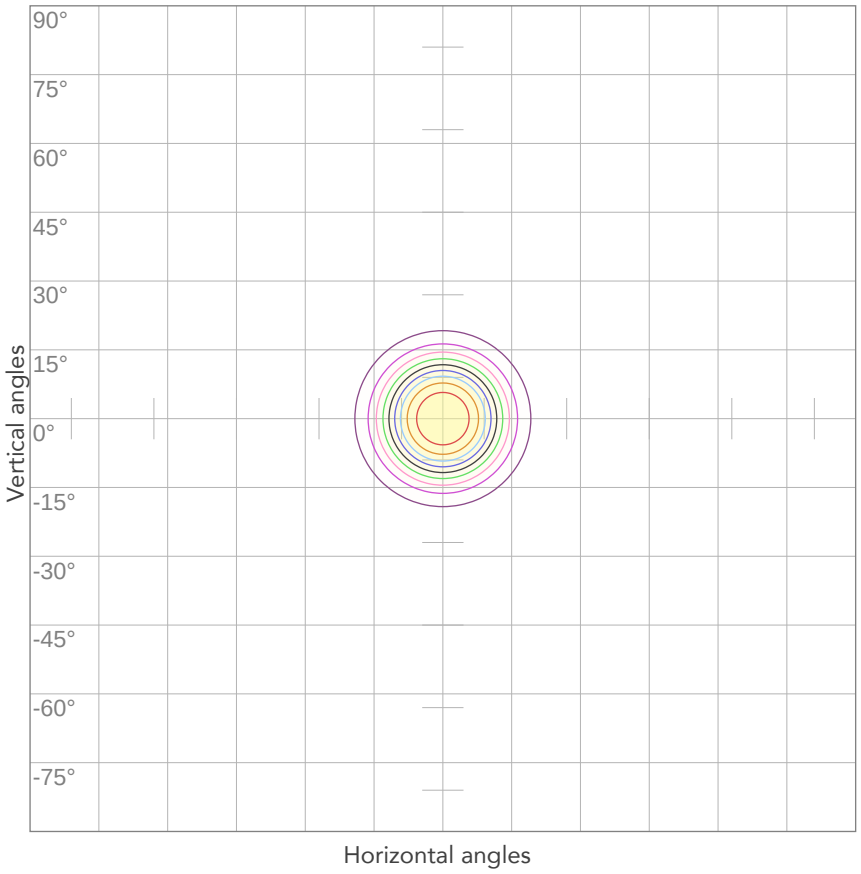
ISO DIAGRAMS

ISO CANDELA DIAGRAM



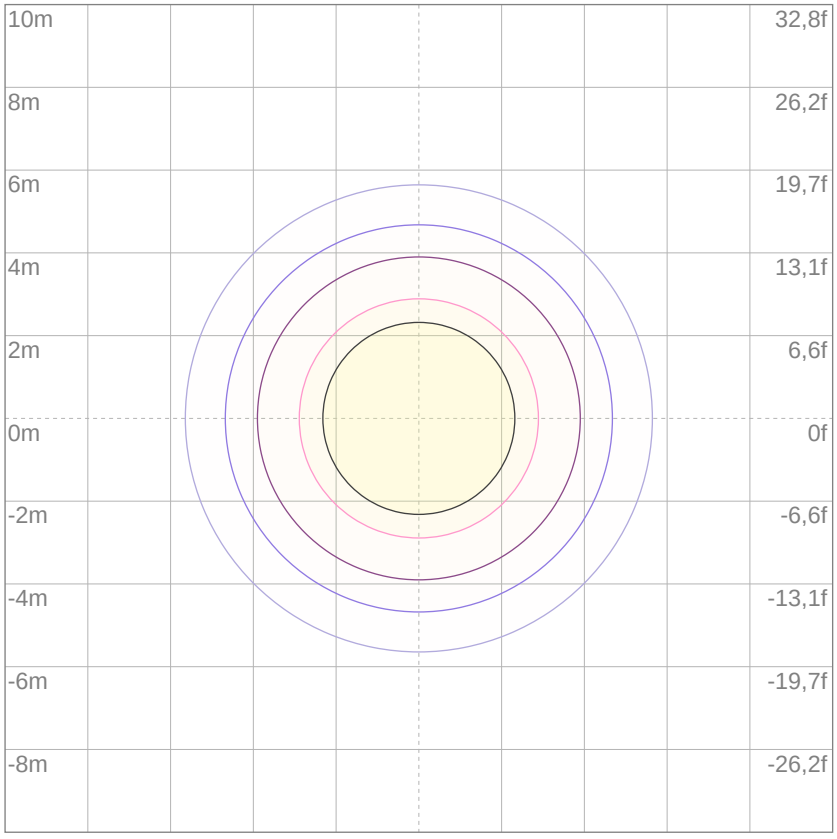
10%	1828 cd
20%	3656 cd
30%	5484 cd
40%	7312 cd
50%	9140 cd
60%	10968 cd
70%	12796 cd
80%	14624 cd

Conditions:

Number of c-planes: 2

Candela at center: 18280 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,48 lx
5%	9,14 lx
10%	18,3 lx
30%	54,8 lx
50%	91,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 183 lx

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

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Total lumen output:

4255 lm

Peak candela output:

3004 cd

Light quality:

CRI: 95,3

Color temperature:

2776 K

PRODUCT NAME:

ECLPAR FC

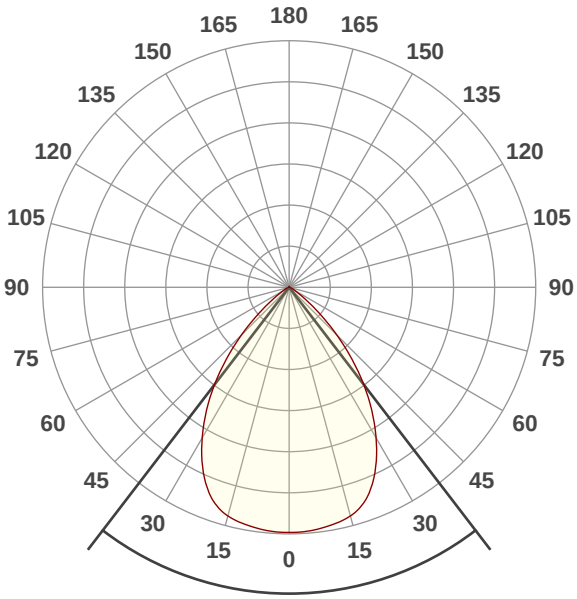
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
2800K

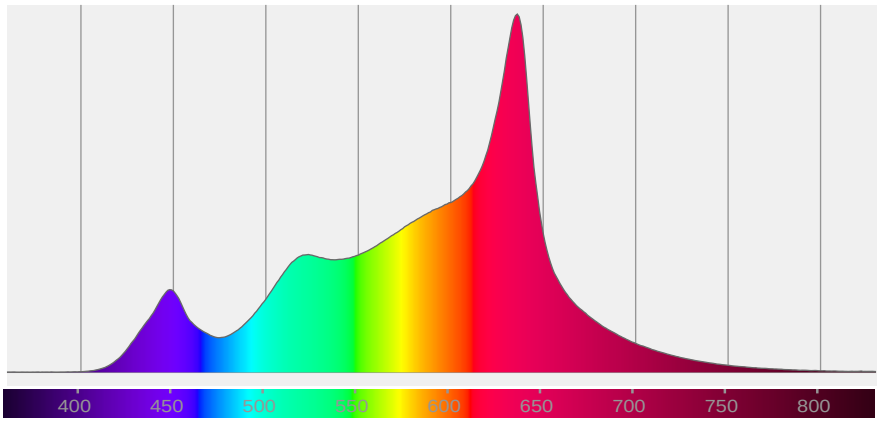
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:58:52



Beam angle 50%: 75°
Field angle 10%: 104,9°
Cut off angle 2.5%: 122,6°

Spectra



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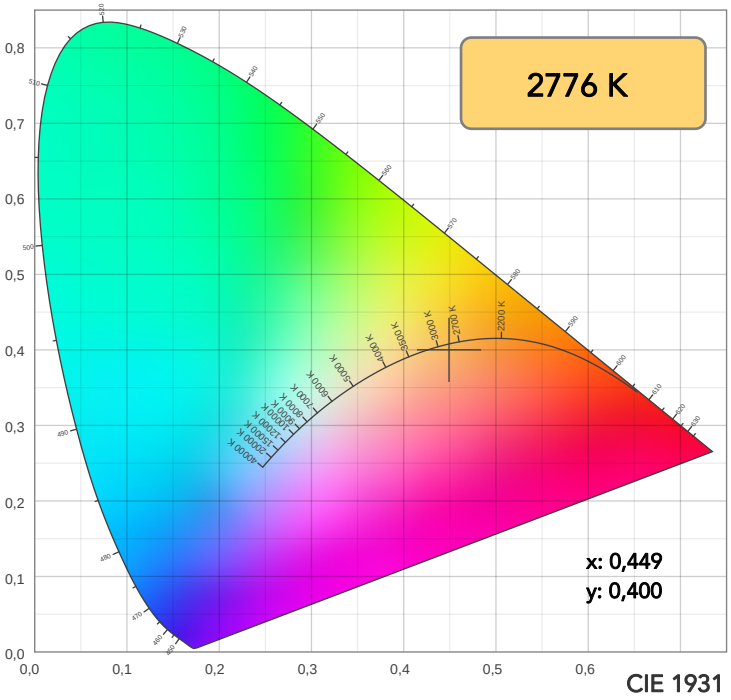
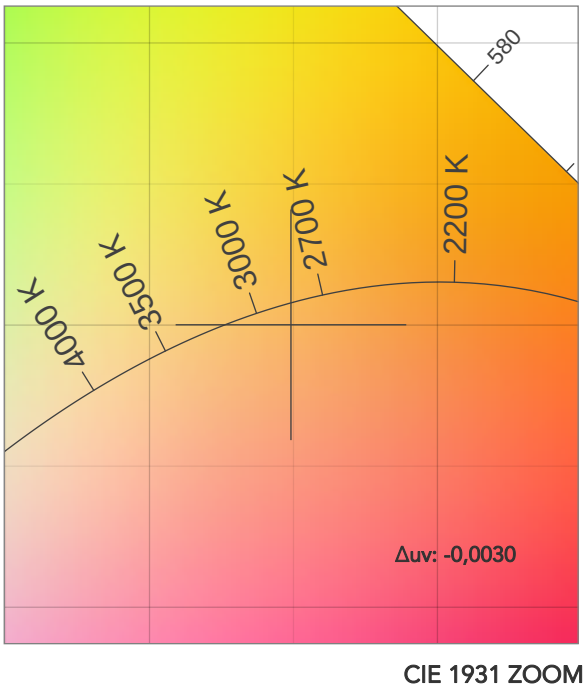
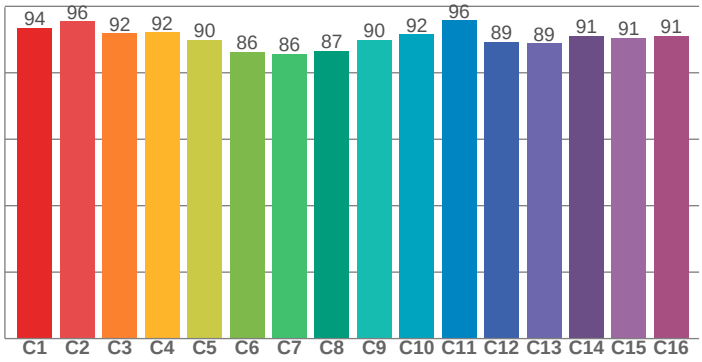
COLOR DETAILS

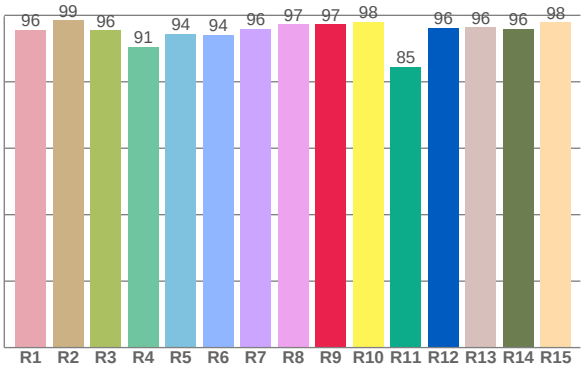




TM30: 91,2



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
95,7	98,6	95,5	90,5	94,5	94,1	96,0	97,3	97,4	98,1	84,5	96,2	96,4	96,0	97,8

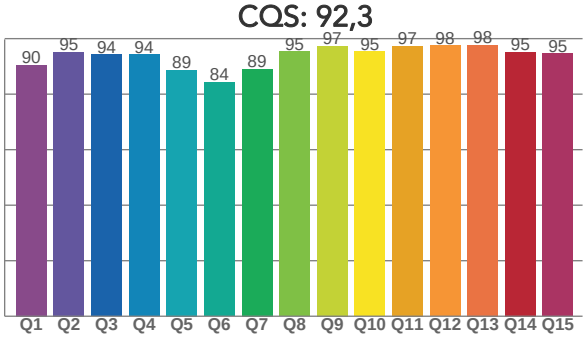
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,6	95,5	91,8	92,1	89,9	86,2	85,6	86,6	89,9	91,6	95,8	89,3	88,8	91,1	90,5	91,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,5	95,1	94,3	94,3	88,7	84,3	89,1	95,4	97,4	95,3	97,4	97,6	97,7	95,2	94,6

CQS: 92,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2776 K	95,3	97,4	91,2	106,0	92,3	84	0,449	0,400	-0,0030

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TM30 DETAILS

PROLiGHTS

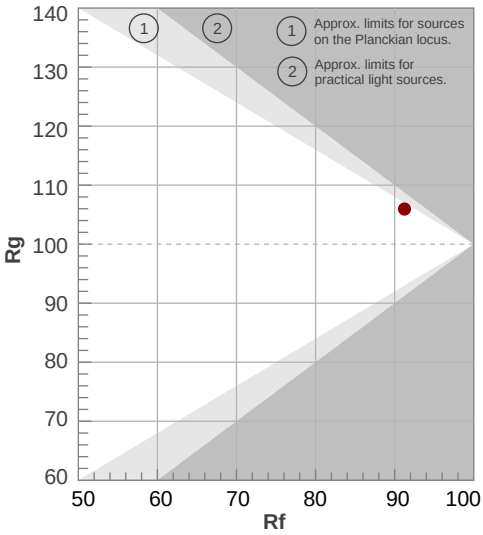
Rf 91,2

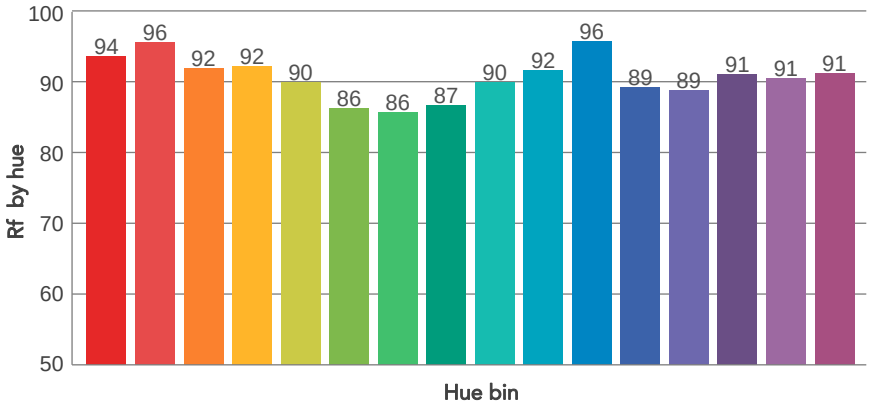
Fidelity index Rf

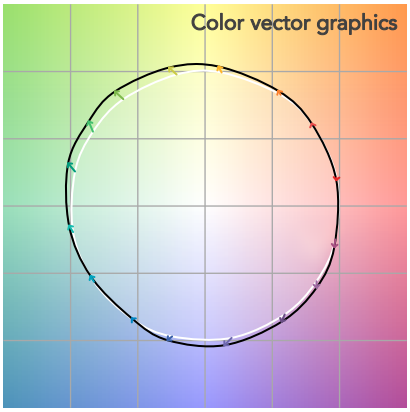
Rg 106,0

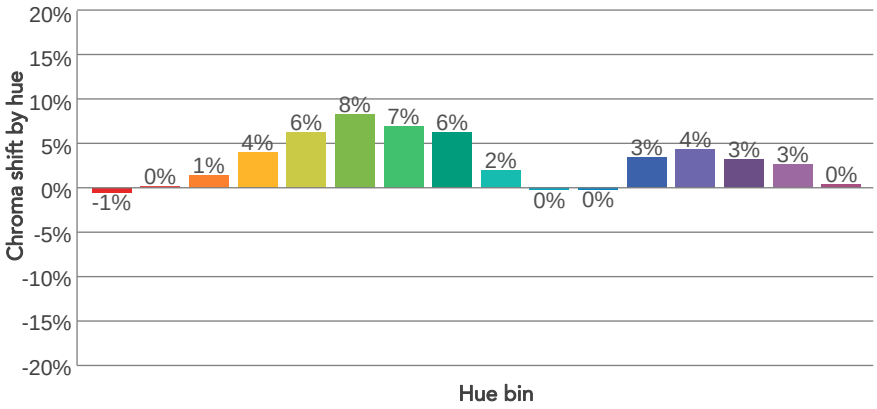
Gammut index

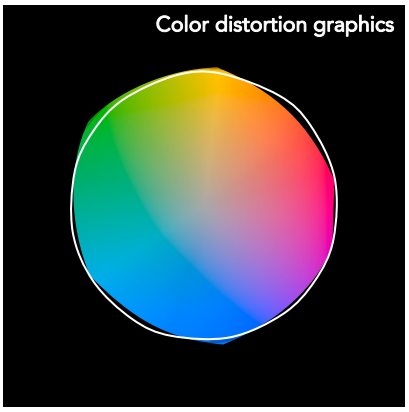
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	-1%	-2%
2	96	0%	1%
3	92	1%	3%
4	92	4%	3%
5	90	6%	4%
6	86	8%	2%
7	86	7%	-5%
8	87	6%	-5%
9	90	2%	-5%
10	92	0%	-5%
11	96	0%	-1%
12	89	3%	-3%
13	89	4%	-6%
14	91	3%	-5%
15	91	3%	-4%
16	91	0%	-6%

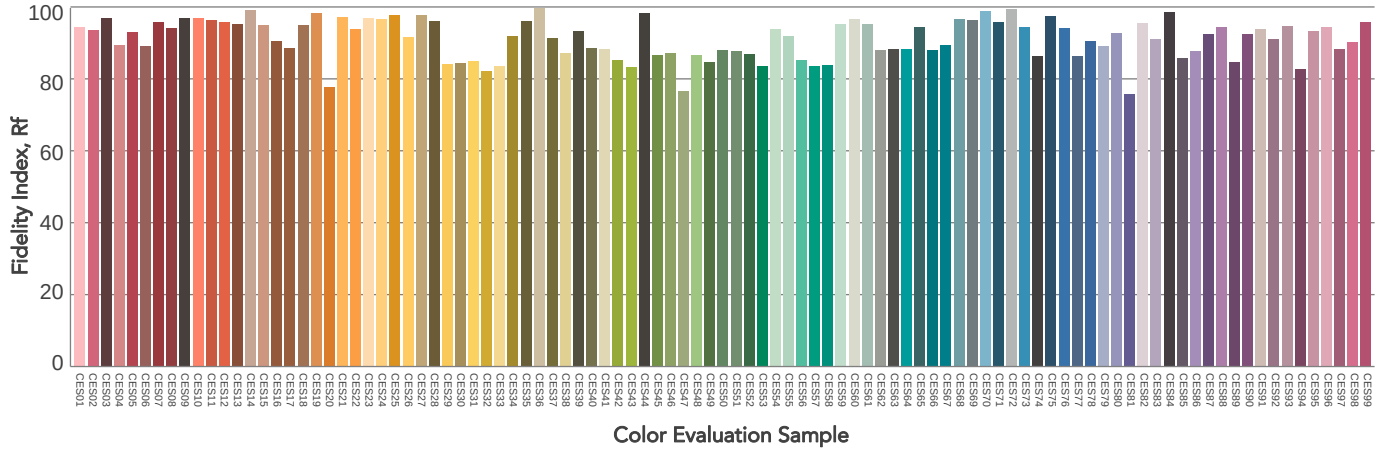












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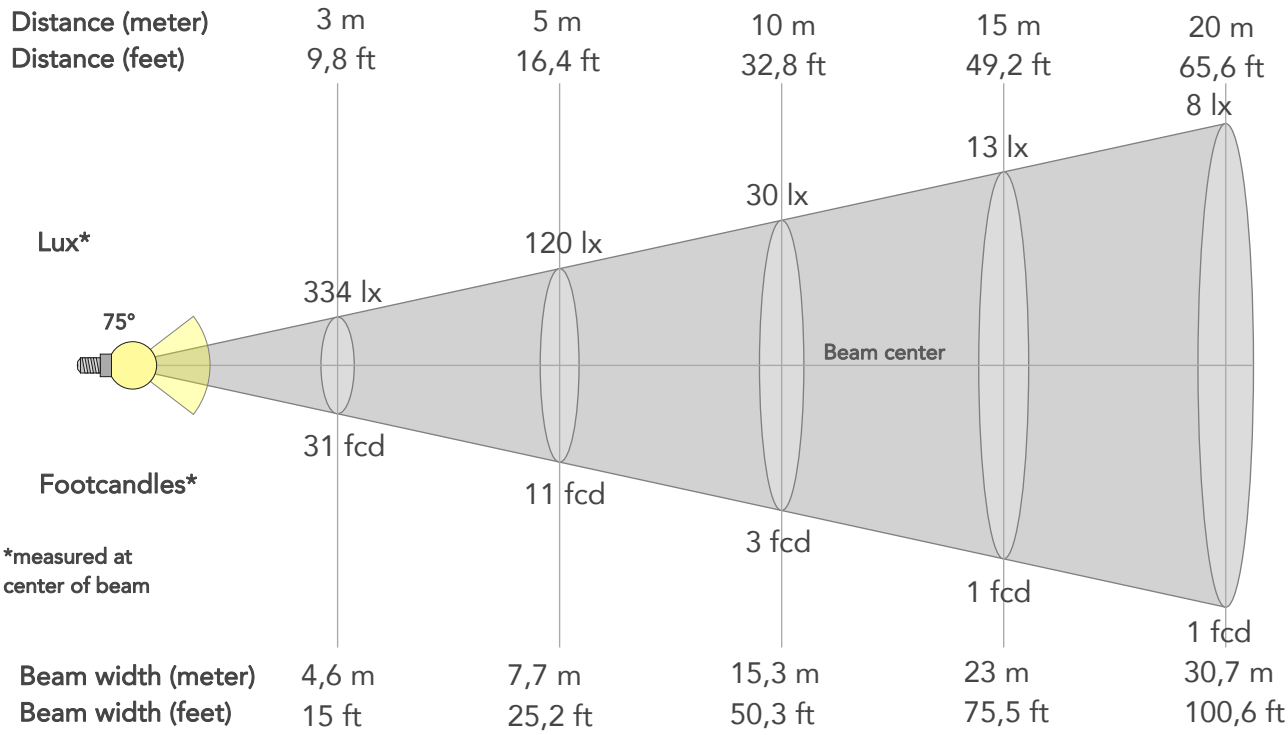
BEAM DETAILS

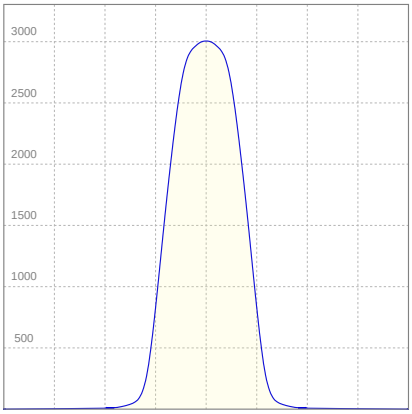
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75°	104,9°	122,6°	97,2%	86,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3004lx	751lx	334lx	188lx	120lx	53lx	30lx	13lx	8lx	5lx	3lx	2lx	1lx
Footcand.	279fcd	70fcd	31fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,7m	11,5m	15,3m	23m	30,7m	38,3m	46m	61,3m	76,7m
Beam wid.	5,1ft	10,1ft	15ft	20,1ft	25,2ft	37,7ft	50,3ft	75,5ft	100,6ft	125,8ft	150,9ft	201,2ft	251,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,470A	93,4W	46lm/W

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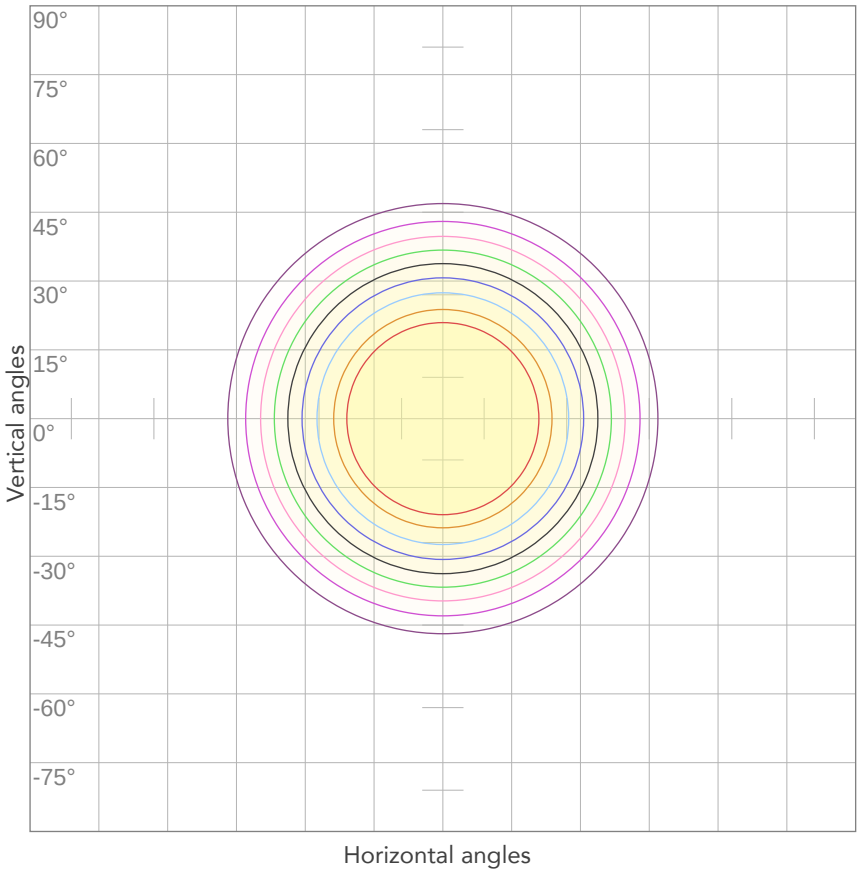
ISO DIAGRAMS

ISO CANDELA DIAGRAM



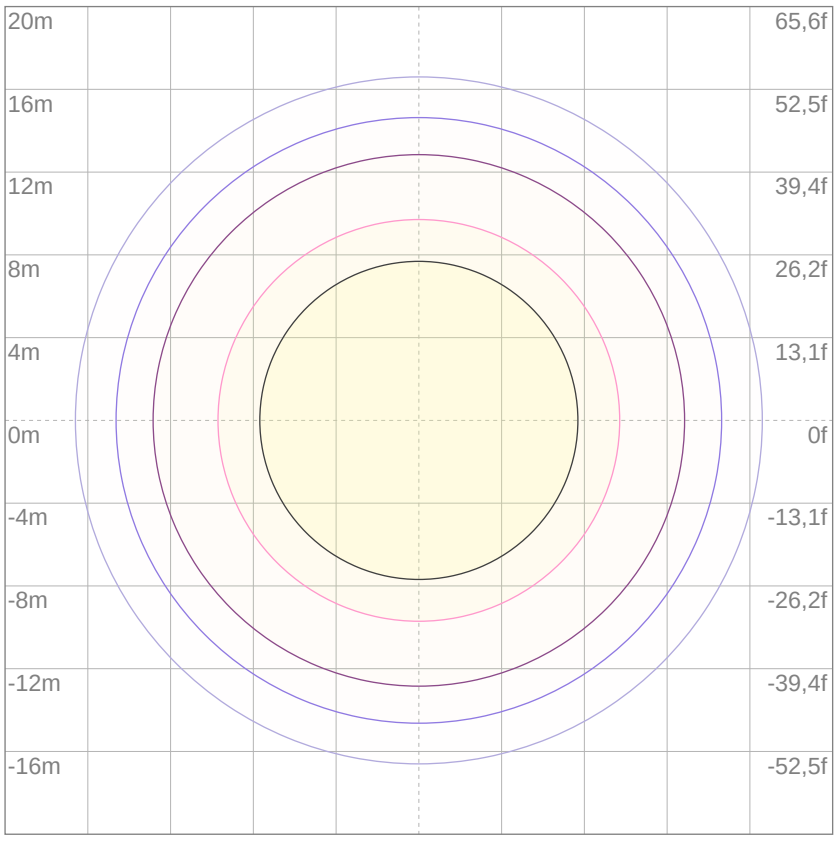
10%	300 cd
20%	601 cd
30%	901 cd
40%	1201 cd
50%	1502 cd
60%	1802 cd
70%	2103 cd
80%	2403 cd

Conditions:

Number of c-planes: 2

Candela at center: 3004 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,901 lx
5%	1,50 lx
10%	3,00 lx
30%	9,01 lx
50%	15,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 30,0 lx

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

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Total lumen output:

4596 lm

Peak candela output:

18738 cd

Light quality:

CRI: 95,5

Color temperature:

3090 K

PRODUCT NAME:

ECLPAR FC

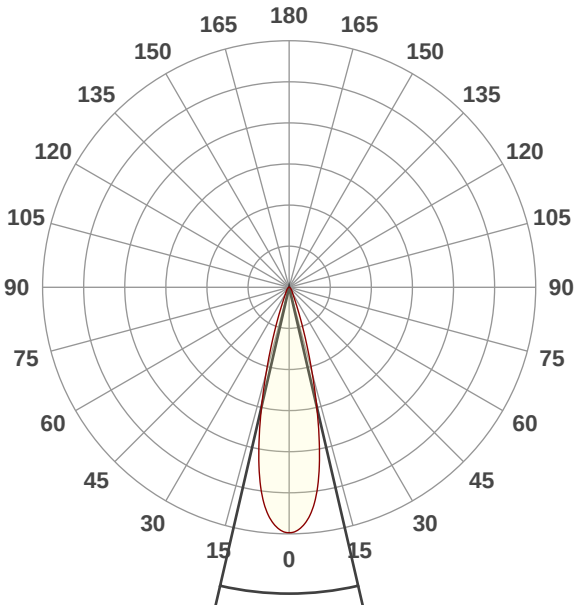
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
3200K

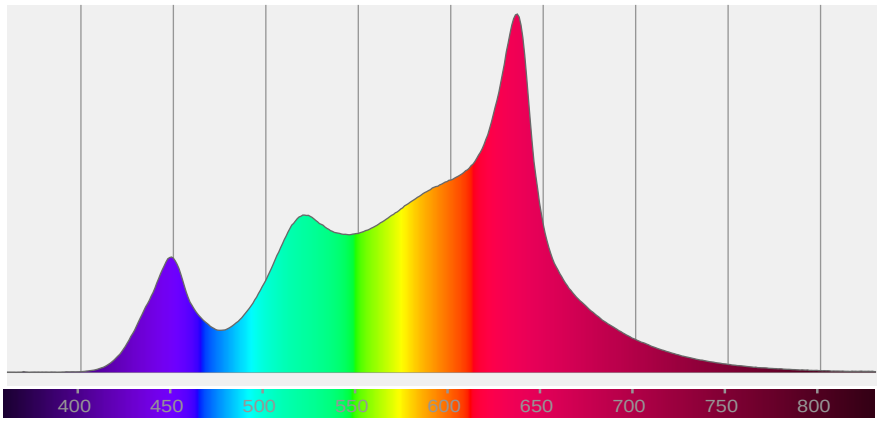
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:39:39



Beam angle 50%: 26°
Field angle 10%: 42,4°
Cut off angle 2.5%: 63,4°

Spectra



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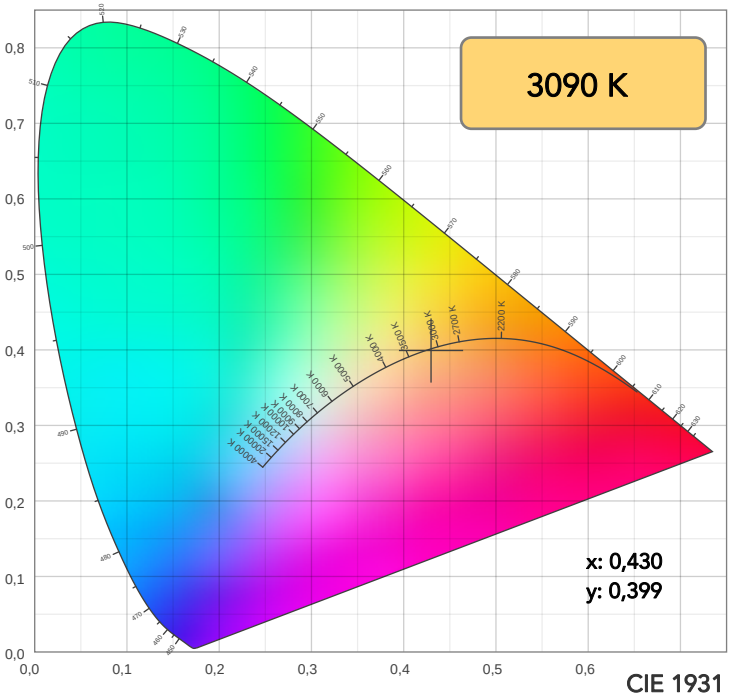
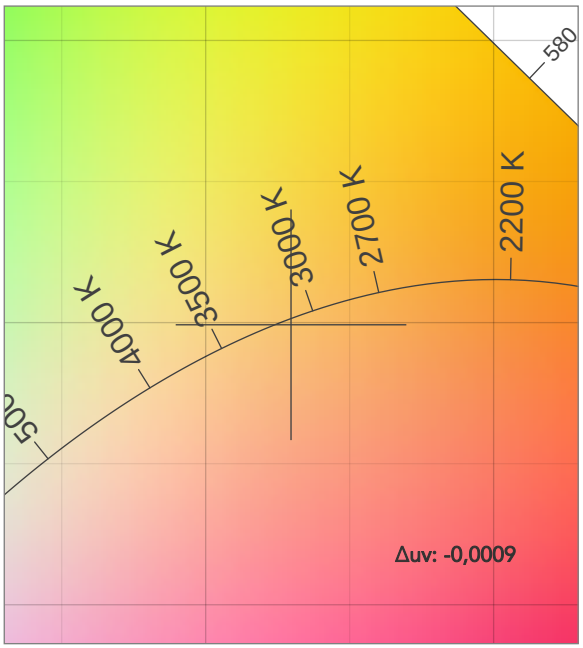
COLOR DETAILS

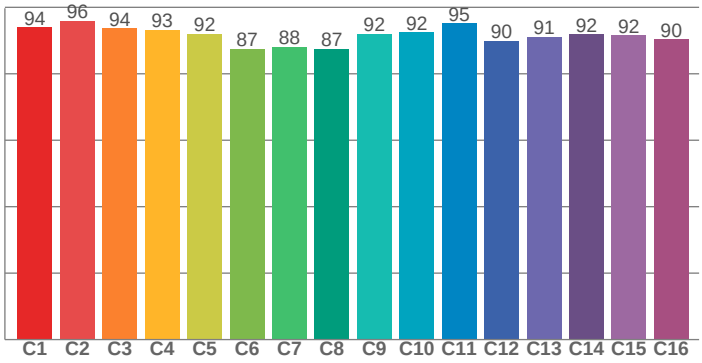


CIE 1931

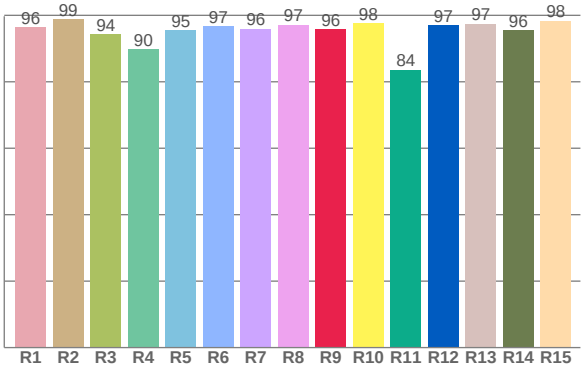


CIE 1931 ZOOM

TM30: 92,2



CRI: 95,5 (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
96,4	98,8	94,3	89,8	95,4	96,6	95,9	97,1	95,9	97,6	83,6	97,0	97,5	95,5	98,4

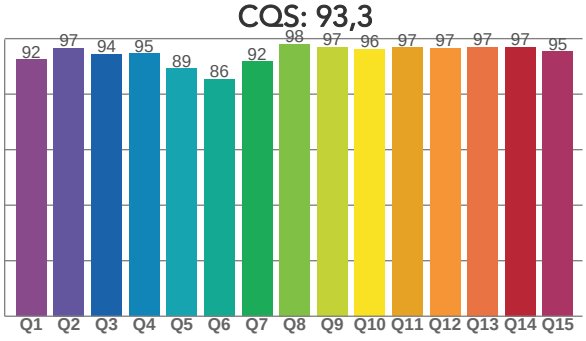
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	95,9	93,7	93,2	92,0	87,4	88,1	87,4	91,9	92,4	95,1	89,9	91,1	91,8	91,6	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	96,7	94,3	94,6	89,2	85,5	91,8	98,0	97,0	96,3	96,8	96,6	96,9	97,0	95,3

CQS: 93,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3090 K	95,5	95,9	92,2	105,2	93,3	86	0,430	0,399	-0,0009

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TM30 DETAILS

PROLiGHTS

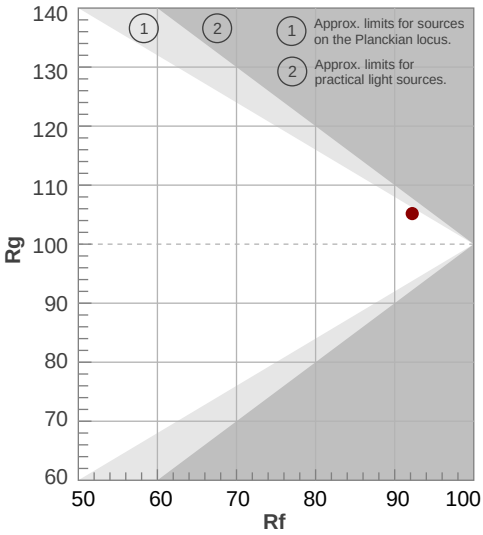
Rf 92,2

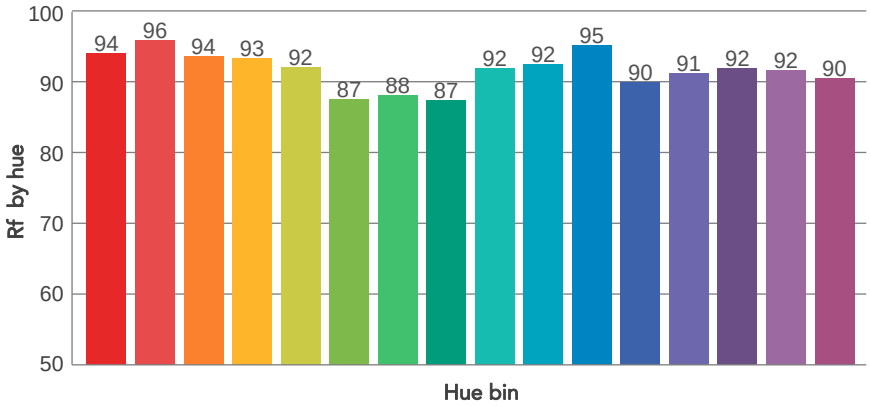
Fidelity index Rf

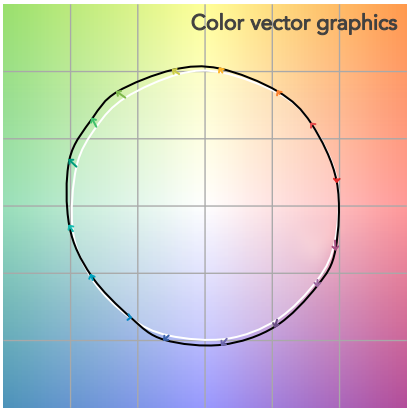
Rg 105,2

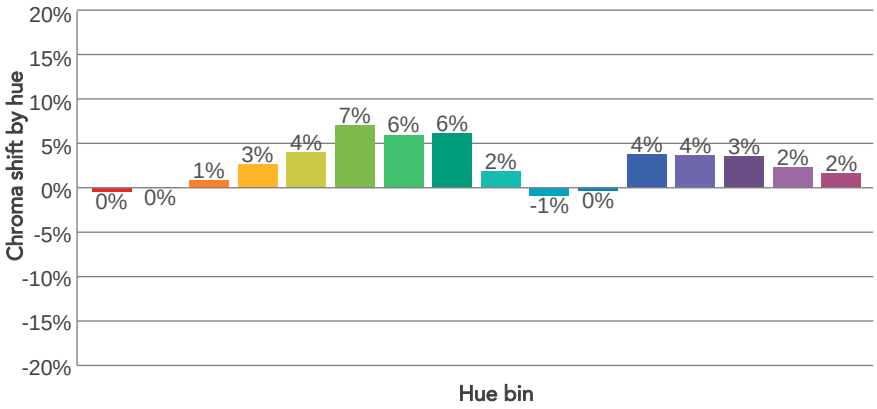
Gammut index

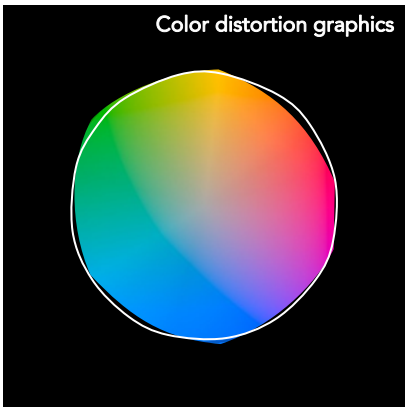
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	0%	-2%
2	96	0%	0%
3	94	1%	2%
4	93	3%	3%
5	92	4%	4%
6	87	7%	3%
7	88	6%	-3%
8	87	6%	-4%
9	92	2%	-4%
10	92	-1%	-4%
11	95	0%	1%
12	90	4%	-3%
13	91	4%	-4%
14	92	3%	-4%
15	92	2%	-4%
16	90	2%	-6%

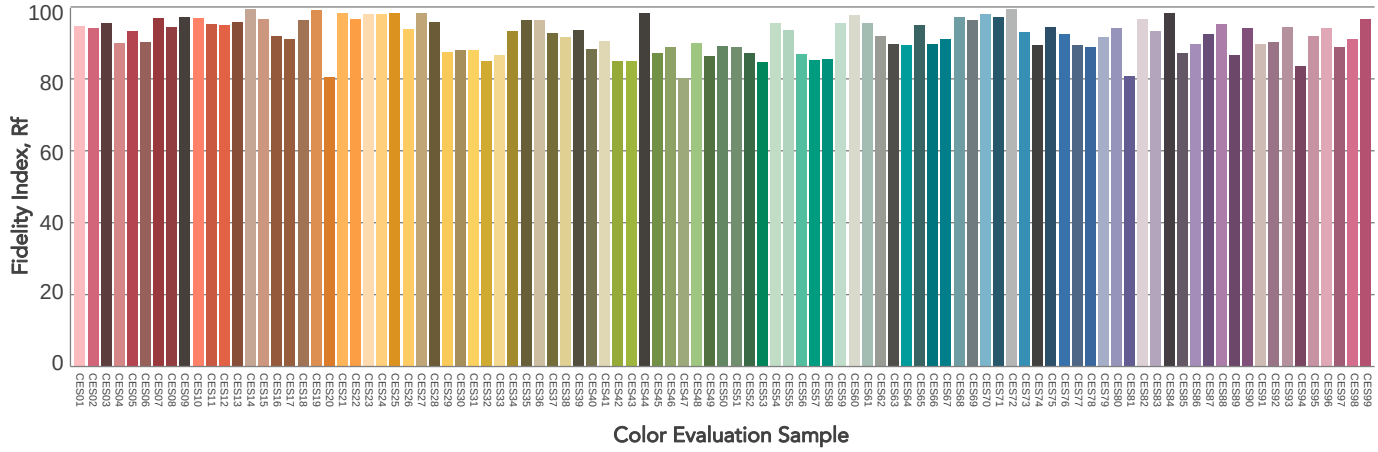












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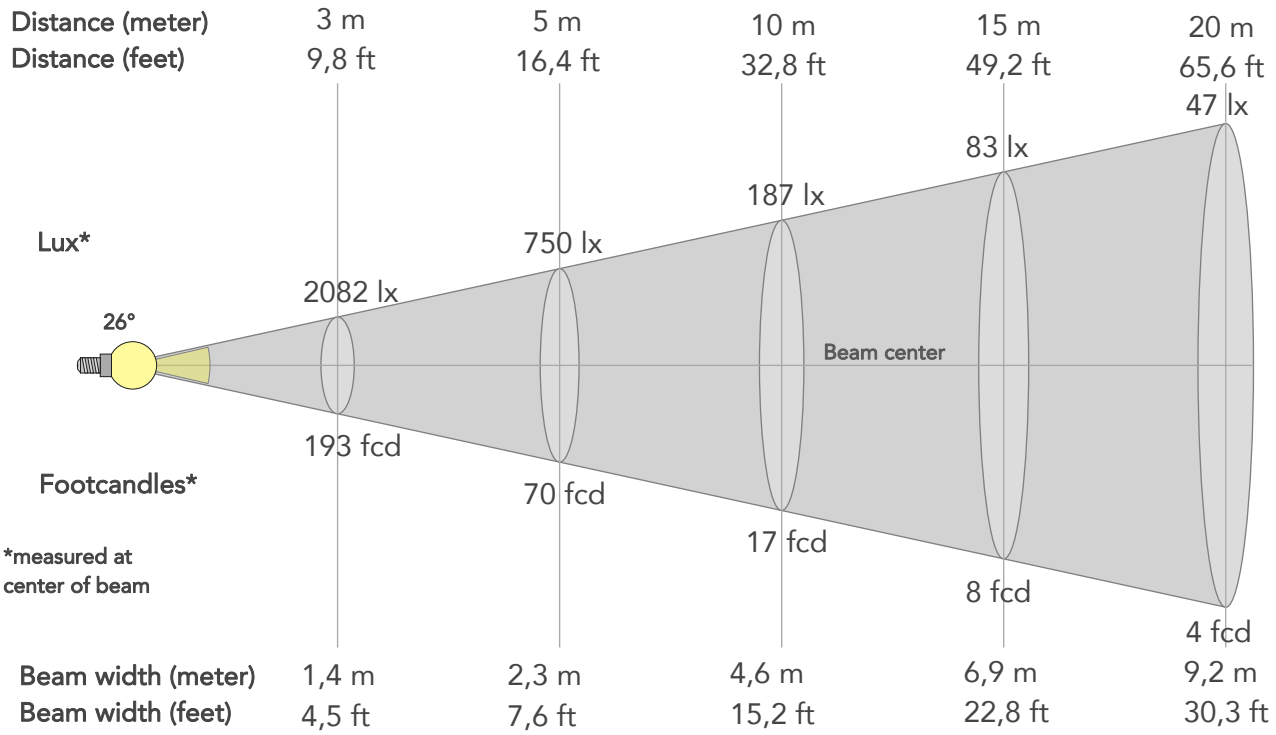
BEAM DETAILS

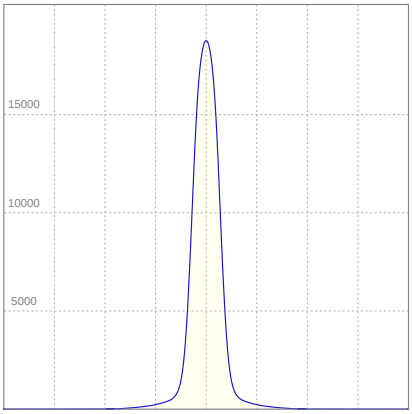
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26°	42,4°	63,4°	97,0%	92,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	18738lx	4684lx	2082lx	1171lx	750lx	333lx	187lx	83lx	47lx	30lx	21lx	12lx	7lx
Footcand.	1741fcd	435fcd	193fcd	109fcd	70fcd	31fcd	17fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,5m	4,6m	6,9m	9,2m	11,6m	13,9m	18,5m	23,1m
Beam wid.	1,5ft	3,1ft	4,5ft	6,1ft	7,6ft	11,4ft	15,2ft	22,8ft	30,3ft	37,9ft	45,5ft	60,7ft	75,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,483A	96,0W	48lm/W

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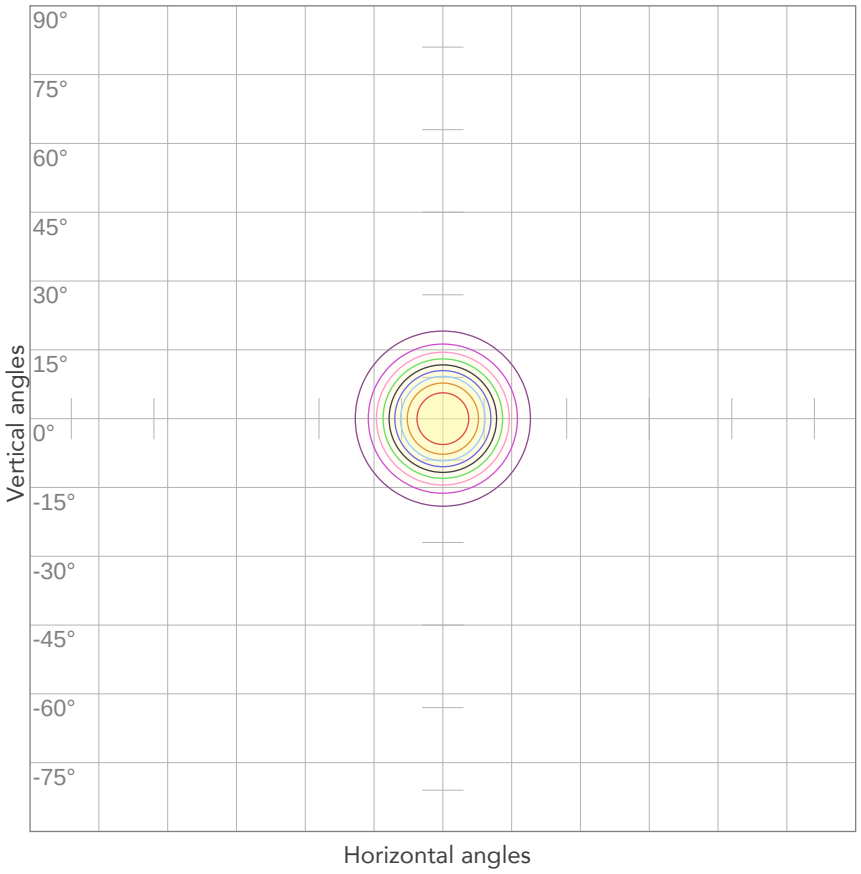
ISO DIAGRAMS

ISO CANDELA DIAGRAM



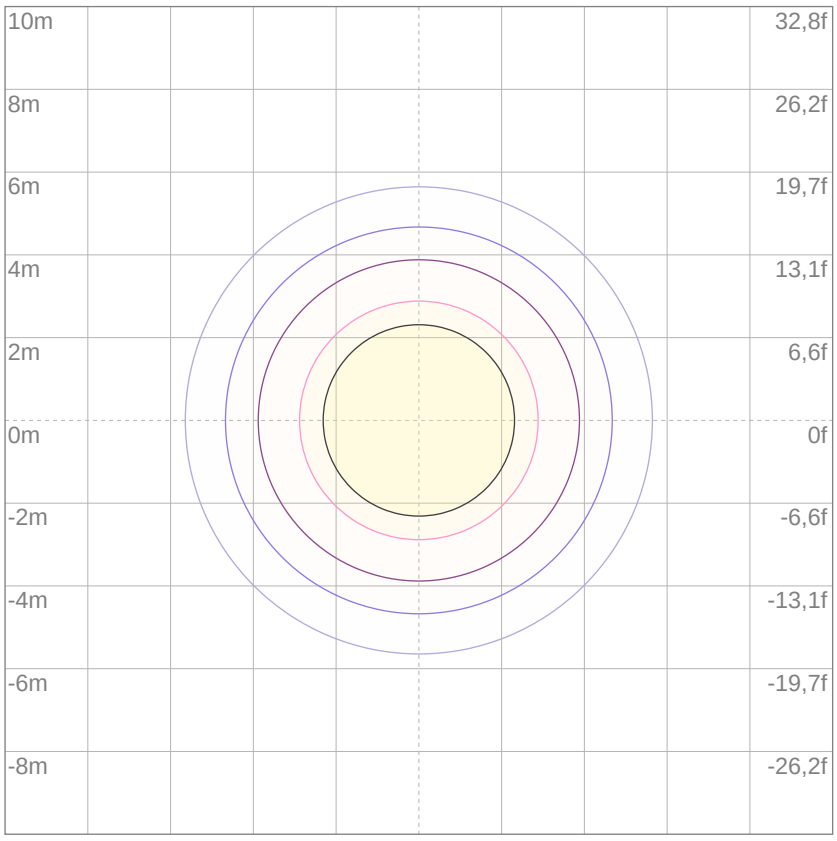
10%	1874 cd
20%	3748 cd
30%	5621 cd
40%	7495 cd
50%	9369 cd
60%	11243 cd
70%	13116 cd
80%	14990 cd

Conditions:

Number of c-planes: 2

Candela at center: 18738 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,62 lx
5%	9,37 lx
10%	18,7 lx
30%	56,2 lx
50%	93,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 187 lx

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

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Total lumen output:

4308 lm

Peak candela output:

3068 cd

Light quality:

CRI: 95,3

Color temperature:

3090 K

PRODUCT NAME:

ECLPAR FC

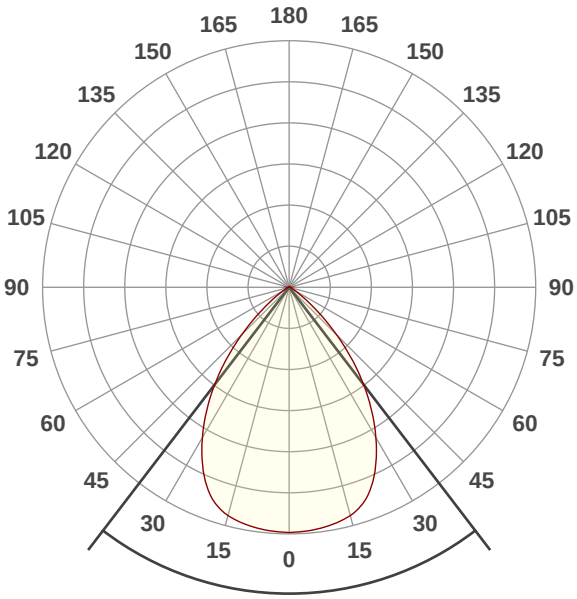
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
3200K

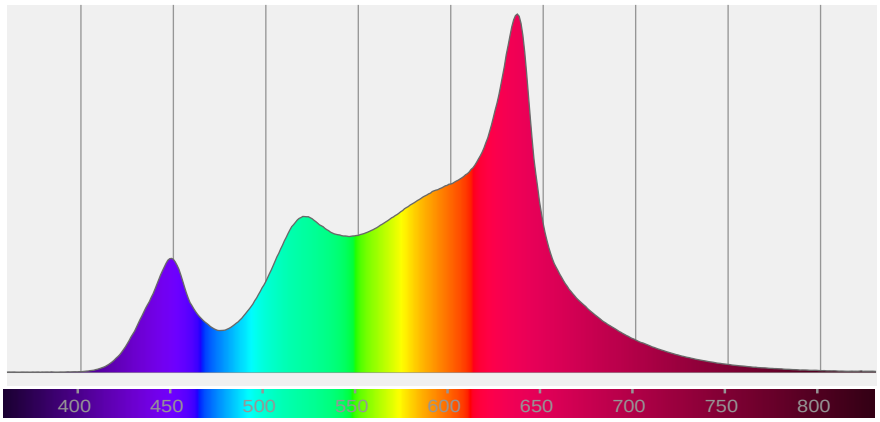
Operator:
Paolo Carvone

Date and time:
08/05/2020 11:03:06

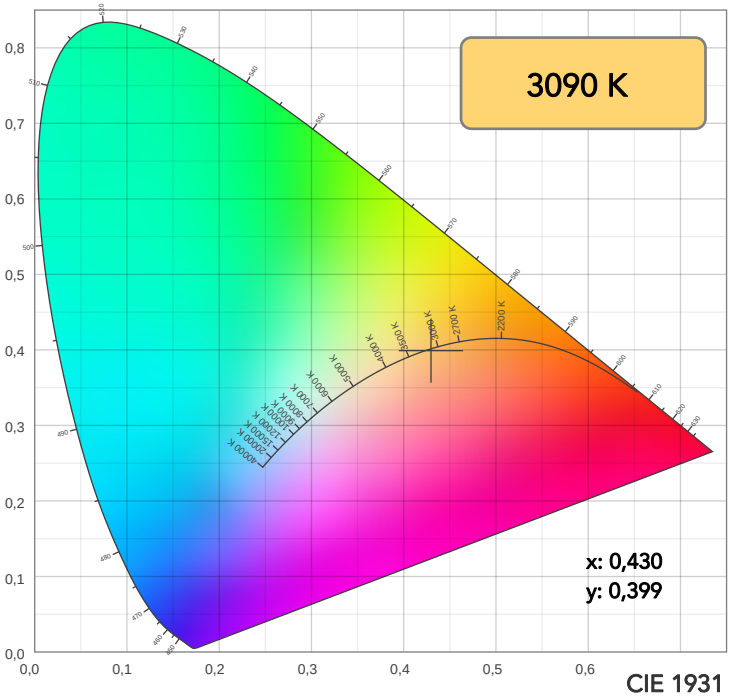


Beam angle 50%: 74,8°
Field angle 10%: 105,3°
Cut off angle 2.5%: 123°

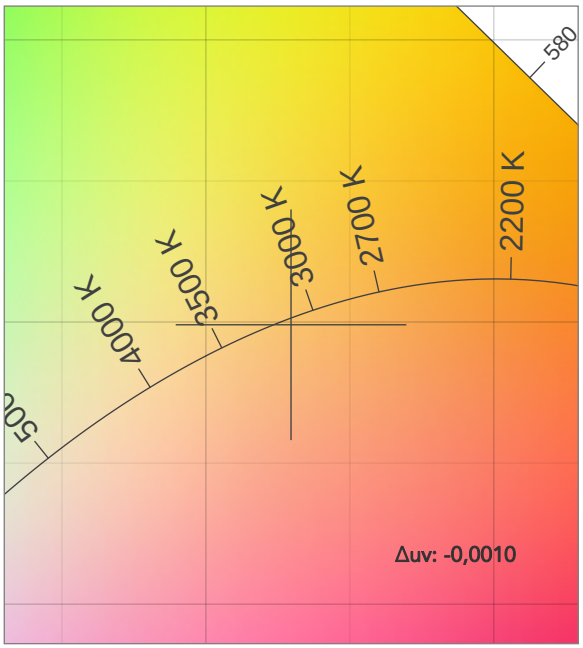
Spectra



COLOR DETAILS

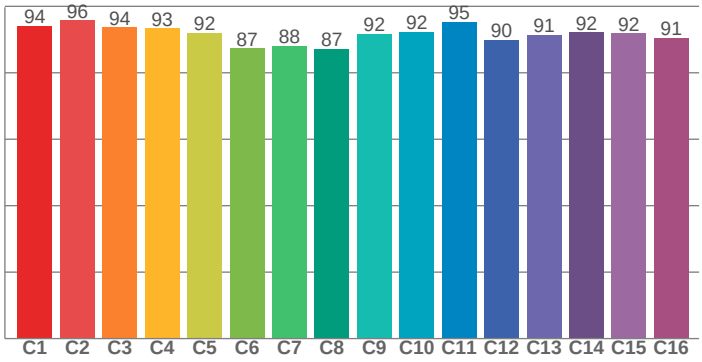


CIE 1931

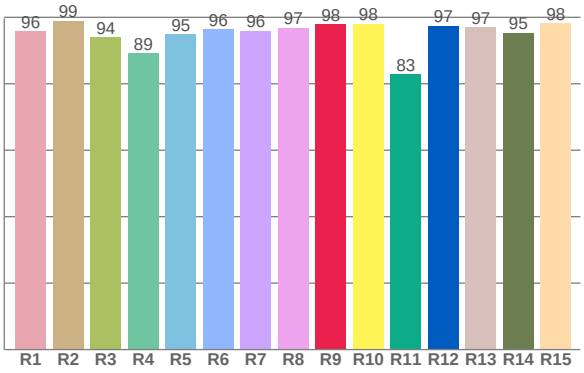


CIE 1931 ZOOM

TM30: 92,3



CRI: 95,3 (R1-R8)



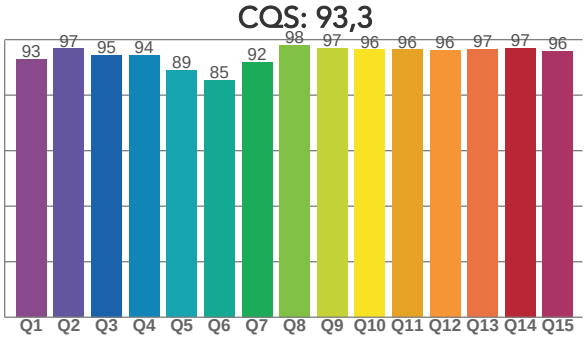
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,8	98,9	94,0	89,3	94,9	96,4	96,0	96,9	98,0	98,0	82,9	97,5	97,0	95,4	98,3

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	95,8	93,7	93,4	92,0	87,4	88,2	87,2	91,8	92,3	95,3	90,0	91,3	92,1	91,8	90,6

CQS: 93,3



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,9	96,7	94,5	94,4	88,9	85,4	91,9	98,1	96,9	96,5	96,5	96,2	96,5	96,9	96,0

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3090 K	95,3	98,0	92,3	105,4	93,3	86	0,430	0,399	-0,0010

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TM30 DETAILS

PROLiGHTS

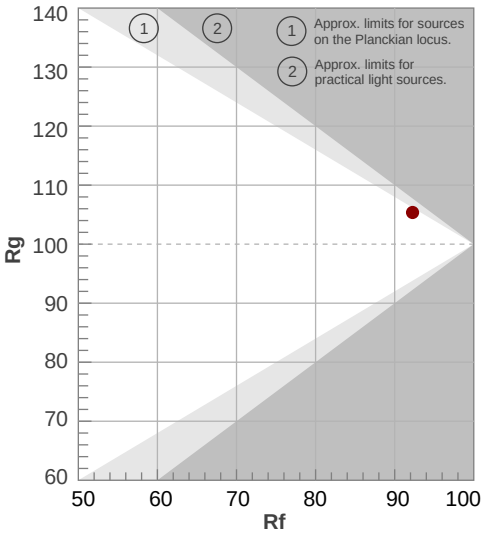
Rf 92,3

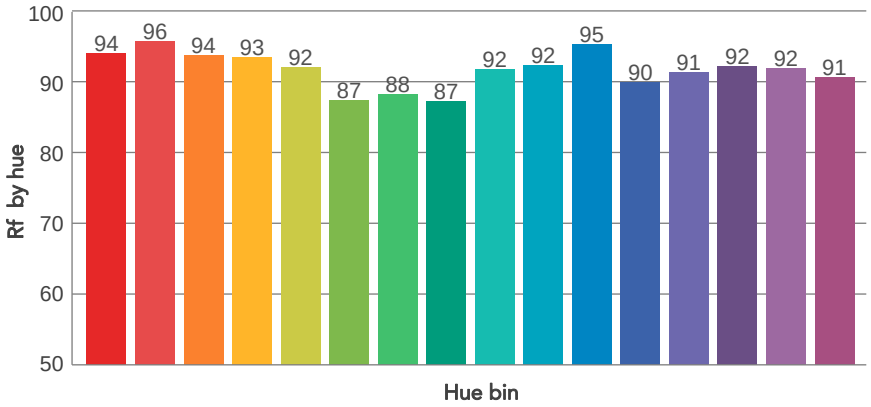
Fidelity index Rf

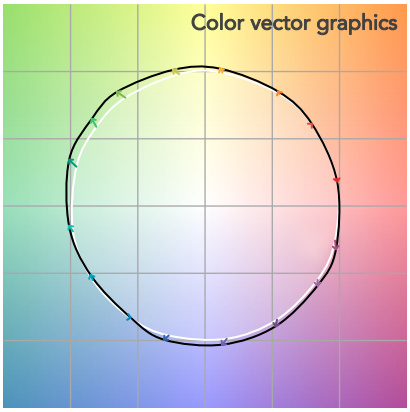
Rg 105,4

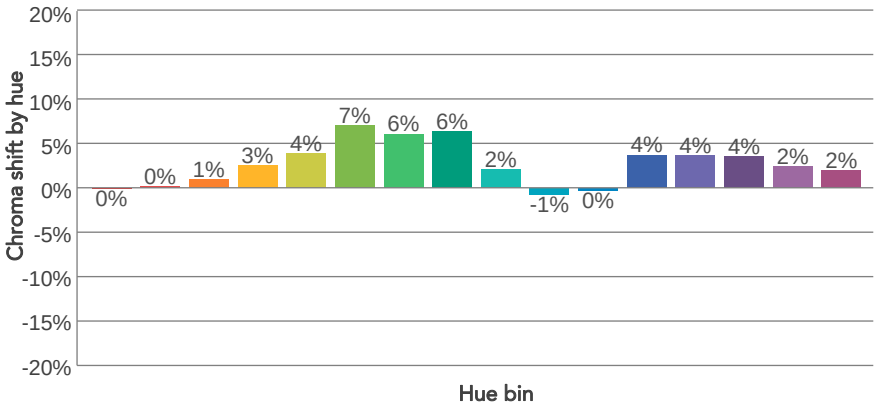
Gammut index

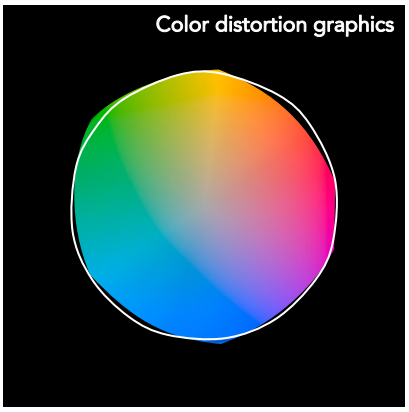
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	0%	-2%
2	96	0%	0%
3	94	1%	2%
4	93	3%	2%
5	92	4%	4%
6	87	7%	3%
7	88	6%	-3%
8	87	6%	-4%
9	92	2%	-5%
10	92	-1%	-4%
11	95	0%	1%
12	90	4%	-3%
13	91	4%	-4%
14	92	4%	-4%
15	92	2%	-3%
16	91	2%	-6%

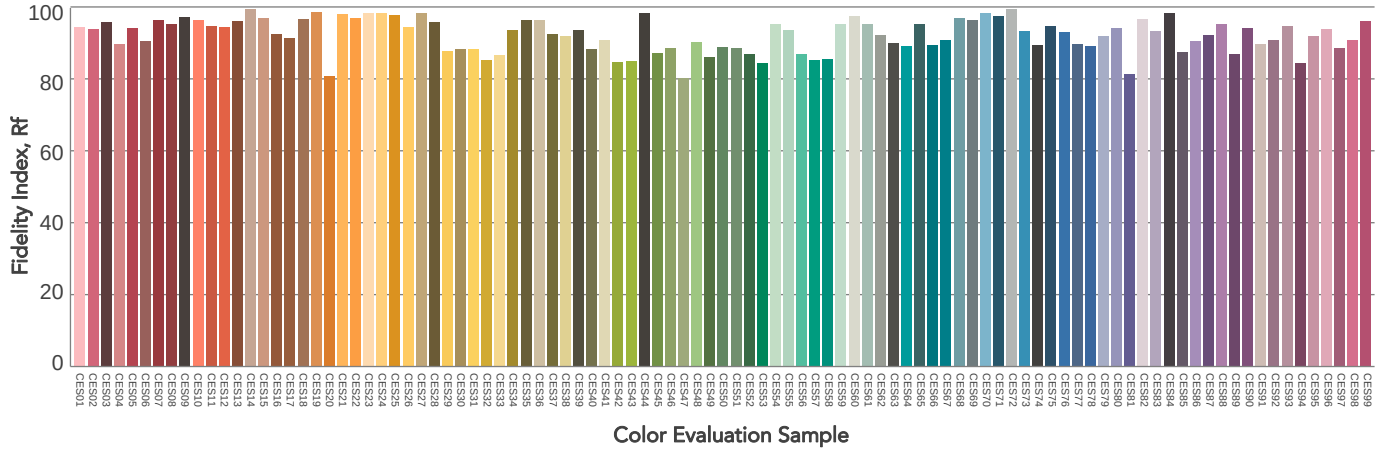












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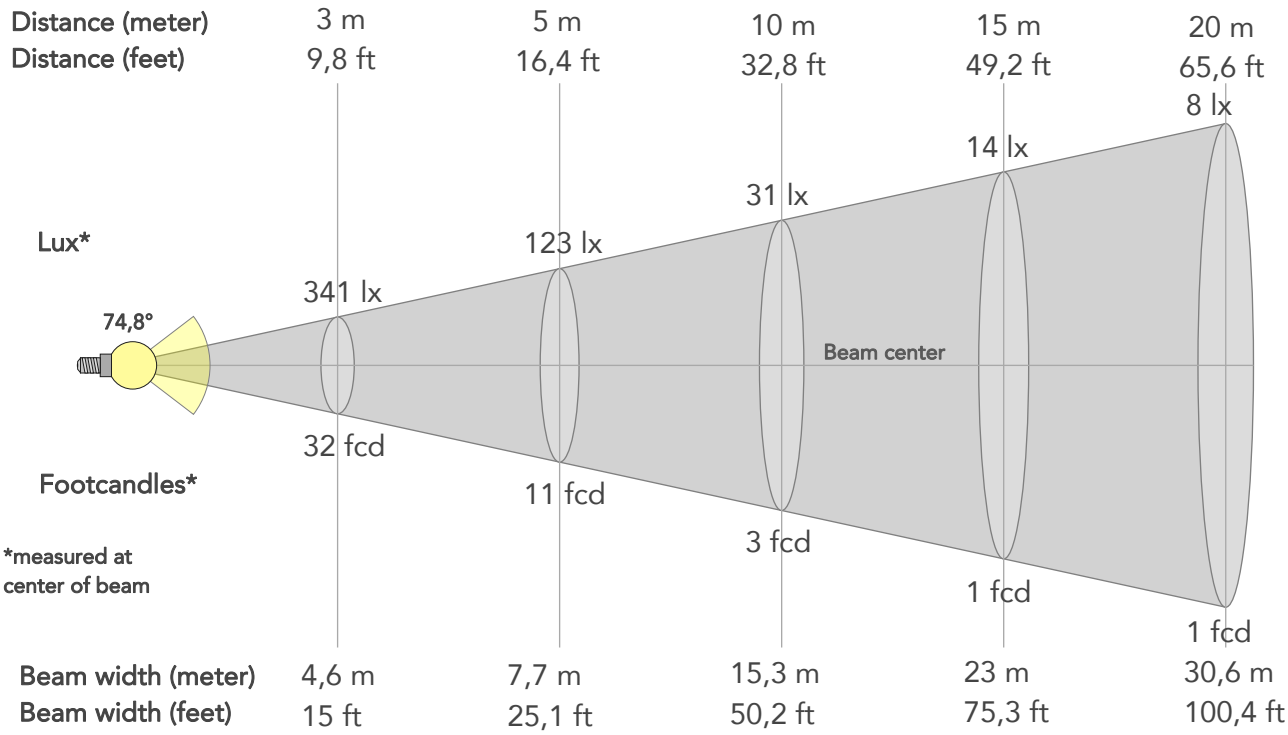
BEAM DETAILS

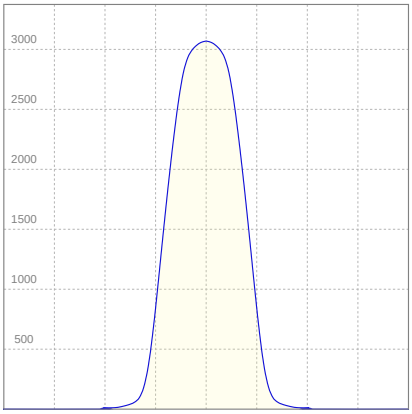
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,8°	105,3°	123°	97,9%	87,3%



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	3068lx	767lx	341lx	192lx	123lx	55lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	285fcd	71fcd	32fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,7m	11,5m	15,3m	23m	30,6m	38,3m	45,9m	61,2m	76,5m
Beam wid.	5ft	10,1ft	15ft	20ft	25,1ft	37,6ft	50,2ft	75,3ft	100,4ft	125,5ft	150,6ft	200,8ft	250,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,481A	95,9W	45lm/W

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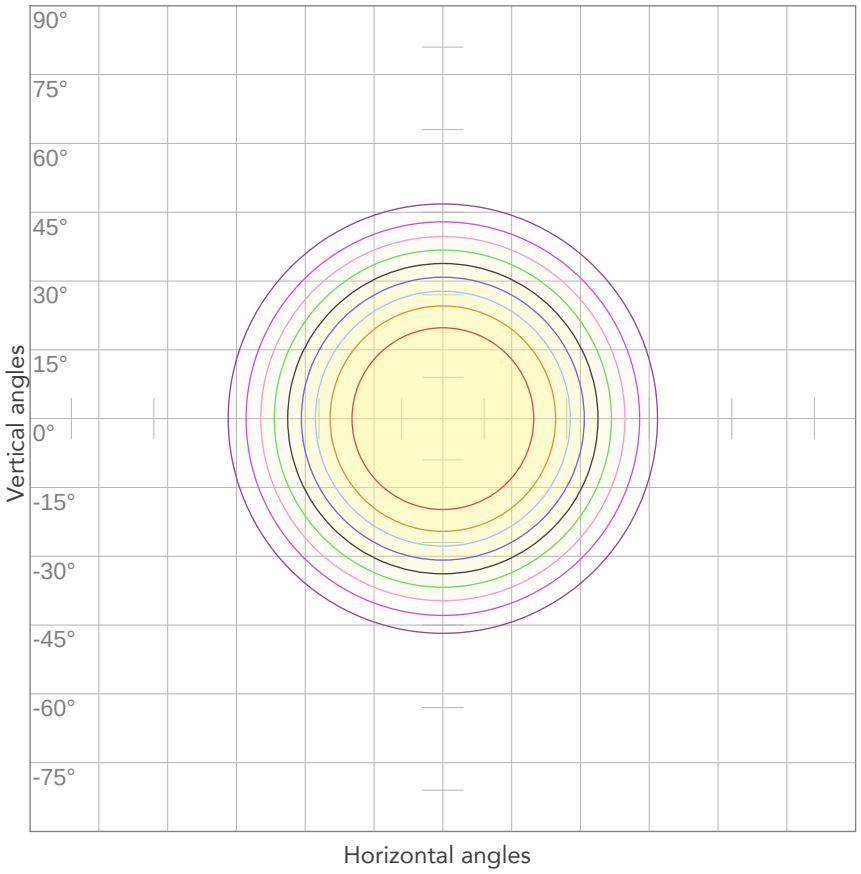
ISO DIAGRAMS

ISO CANDELA DIAGRAM



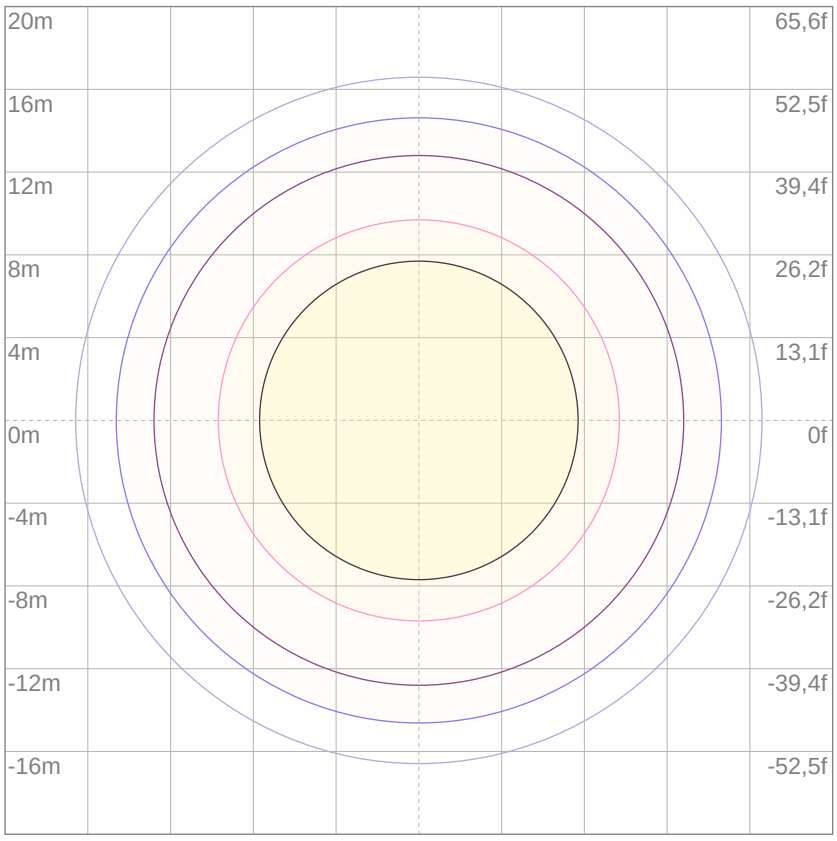
10%	307 cd
20%	614 cd
30%	920 cd
40%	1227 cd
50%	1534 cd
60%	1841 cd
70%	2148 cd
80%	2454 cd

Conditions:

Number of c-planes: 2

Candela at center: 3068 cd

ISO LUX DIAGRAM



3%	0,920 lx
5%	1,53 lx
10%	3,07 lx
30%	9,20 lx
50%	15,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 30,7 lx

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

Total lumen output:

4768 lm

Peak candela output:

19637 cd

Light quality:

CRI: 94,3

Color temperature:

3756 K

PRODUCT NAME:

ECLPAR FC

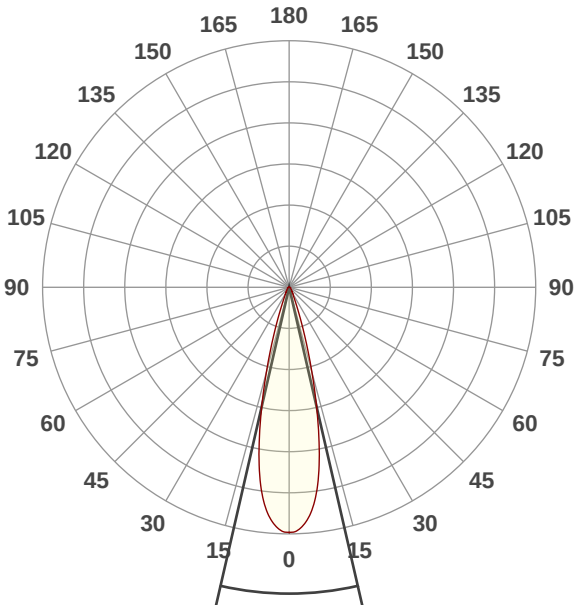
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
4000K

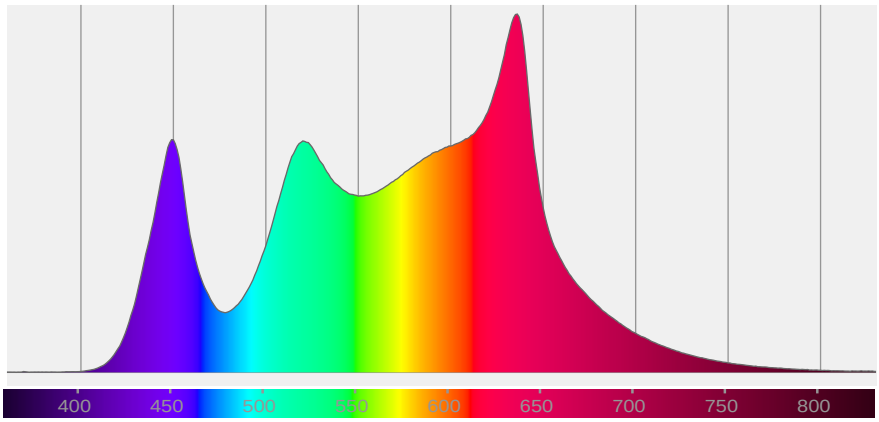
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:41:26



Beam angle 50%: 25,9°
Field angle 10%: 42,4°
Cut off angle 2.5%: 63,1°

Spectra



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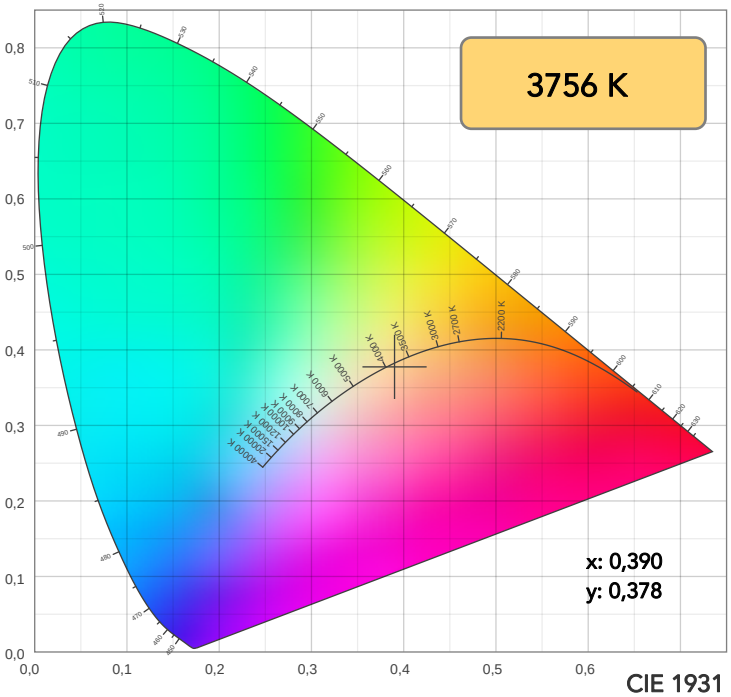
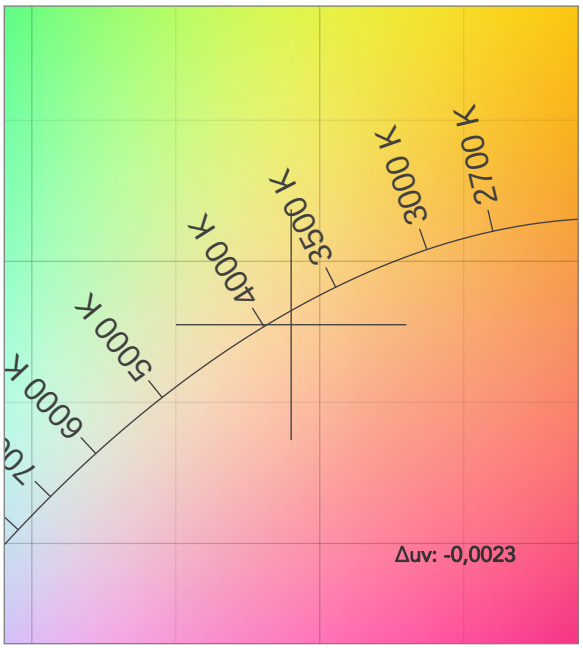
COLOR DETAILS

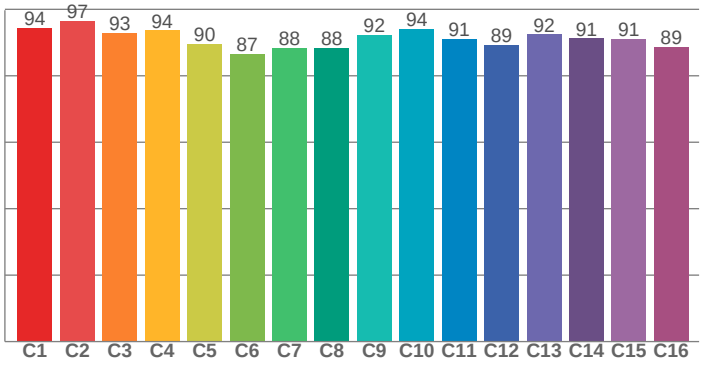


CIE 1931

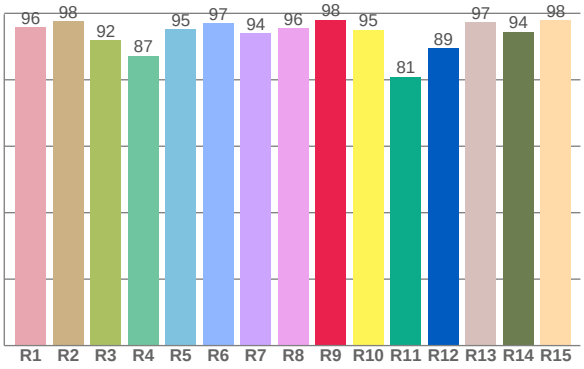


CIE 1931 ZOOM

TM30: 91,5



CRI: 94,3 (R1-R8)



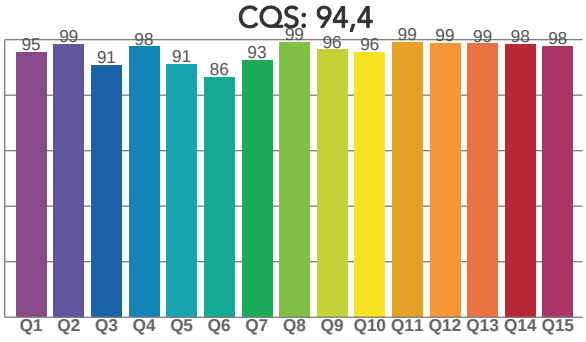
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,8	97,5	92,0	87,3	95,3	97,1	94,1	95,6	98,1	95,0	80,9	89,4	97,3	94,5	97,9

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	96,5	92,9	93,7	89,6	86,5	88,4	88,4	92,4	94,2	91,2	89,2	92,4	91,3	91,0	88,7

CQS: 94,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	98,5	90,8	97,5	91,3	86,5	92,7	99,2	96,4	95,5	99,2	98,7	98,6	98,4	97,7

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3756 K	94,3	98,1	91,5	106,1	94,4	84	0,390	0,378	-0,0023

TM30 DETAILS

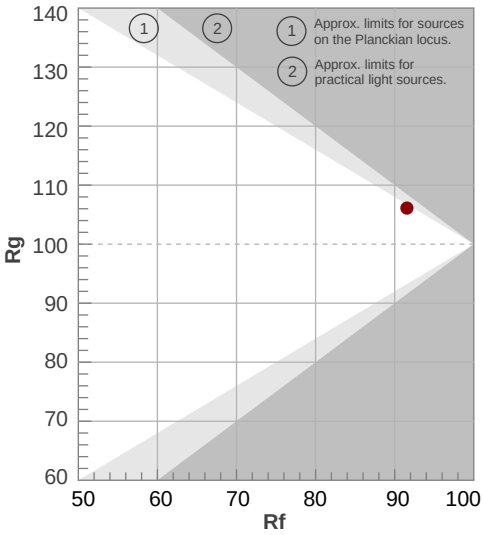
Rf 91,5

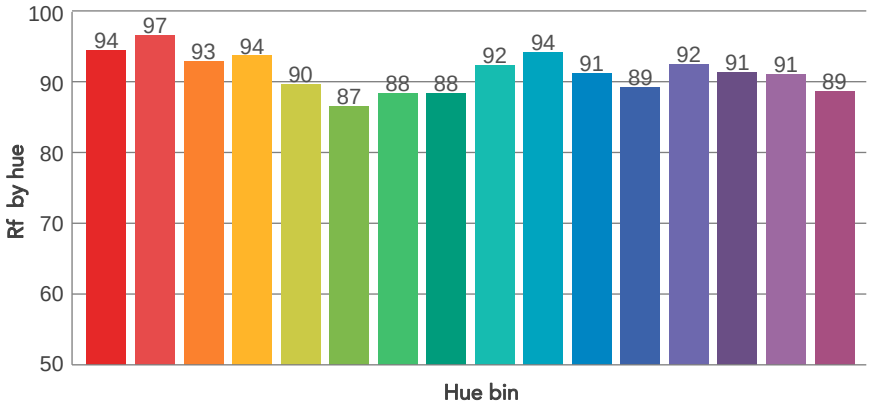
Fidelity index Rf

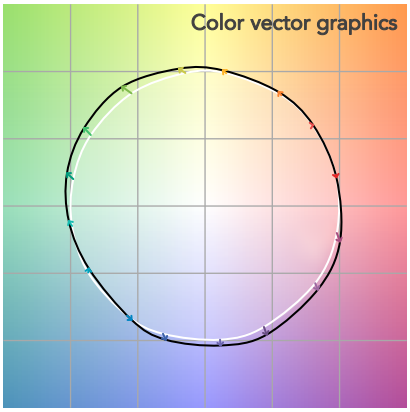
Rg 106,1

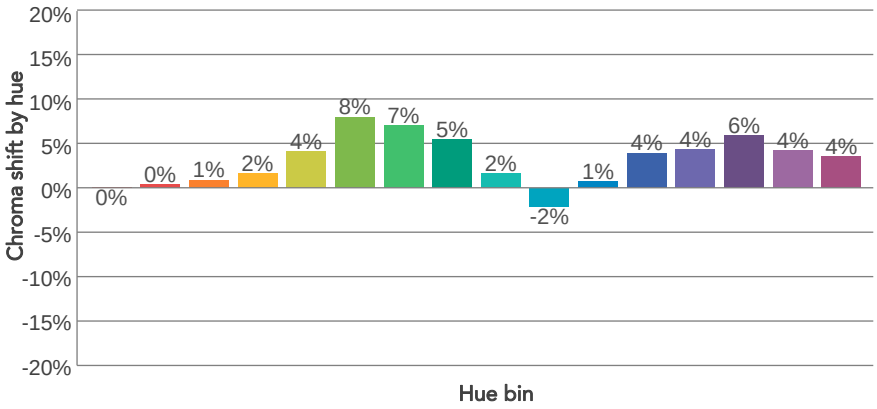
Gammut index

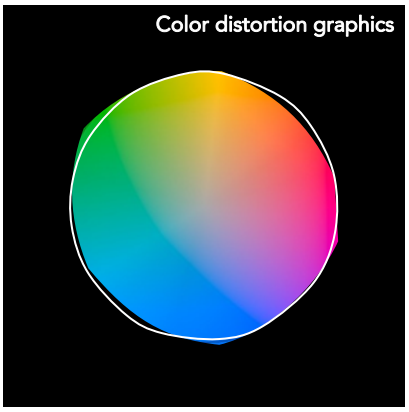
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	0%	-2%
2	97	0%	0%
3	93	1%	3%
4	94	2%	3%
5	90	4%	4%
6	87	8%	3%
7	88	7%	-2%
8	88	5%	-3%
9	92	2%	-4%
10	94	-2%	-2%
11	91	1%	5%
12	89	4%	3%
13	92	4%	0%
14	91	6%	-1%
15	91	4%	-3%
16	89	4%	-6%

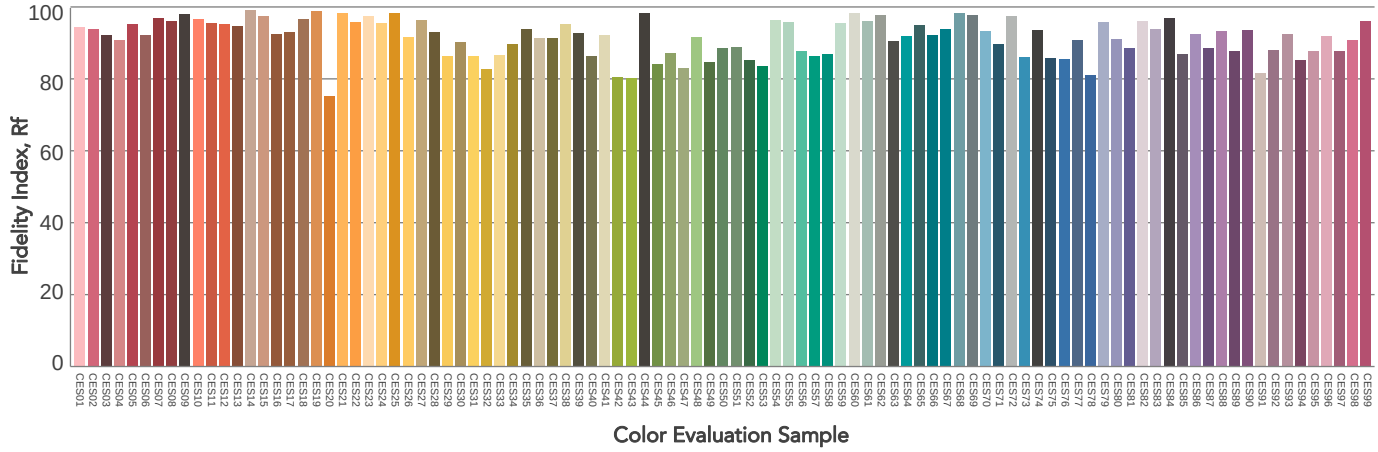












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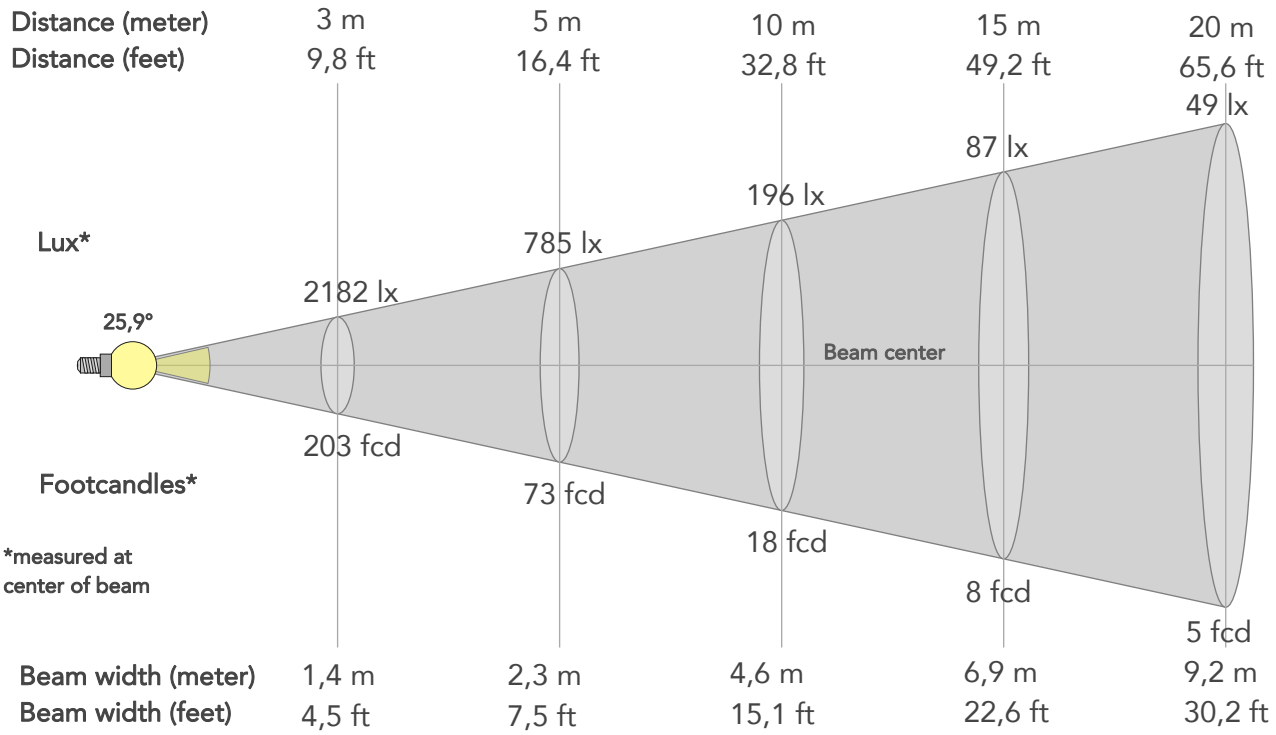
BEAM DETAILS

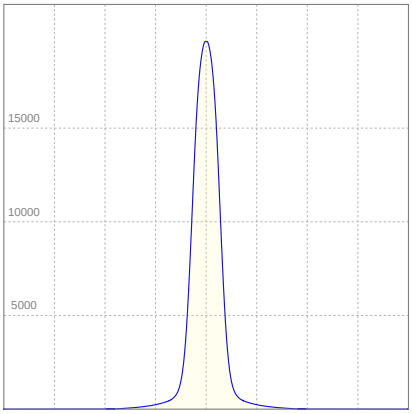
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,9°	42,4°	63,1°	97,0%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	19637lx	4909lx	2182lx	1227lx	785lx	349lx	196lx	87lx	49lx	31lx	22lx	12lx	8lx
Footcand.	1824fcd	456fcd	203fcd	114fcd	73fcd	32fcd	18fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	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	45,2ft	60,3ft	75,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,509A	102,3W	47lm/W

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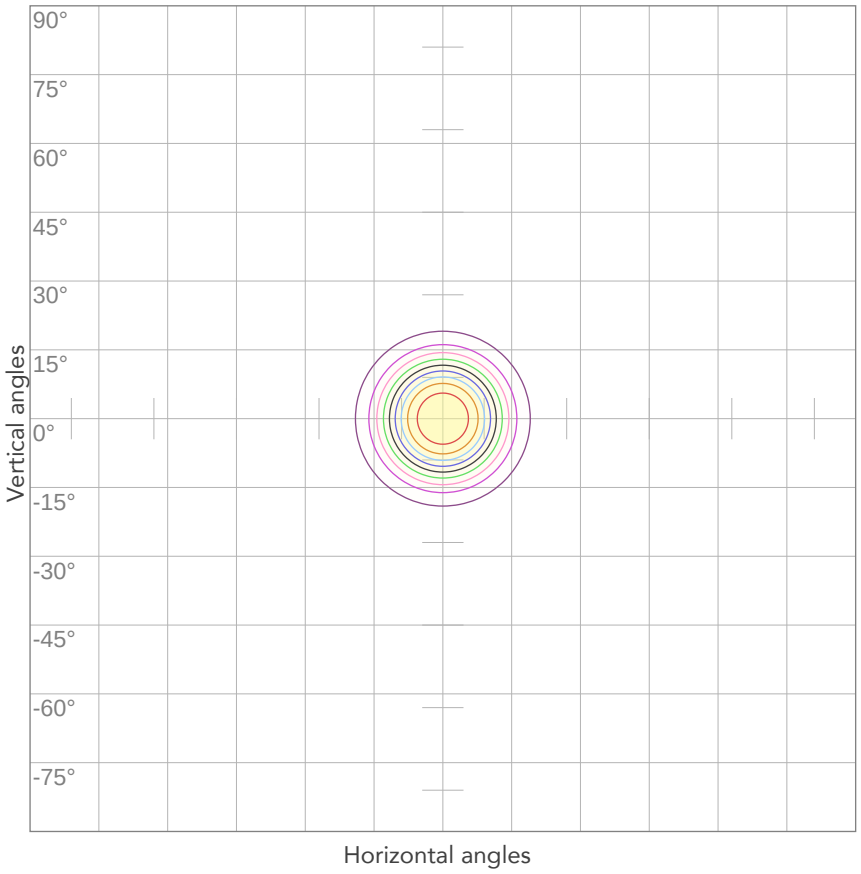
ISO DIAGRAMS

ISO CANDELA DIAGRAM



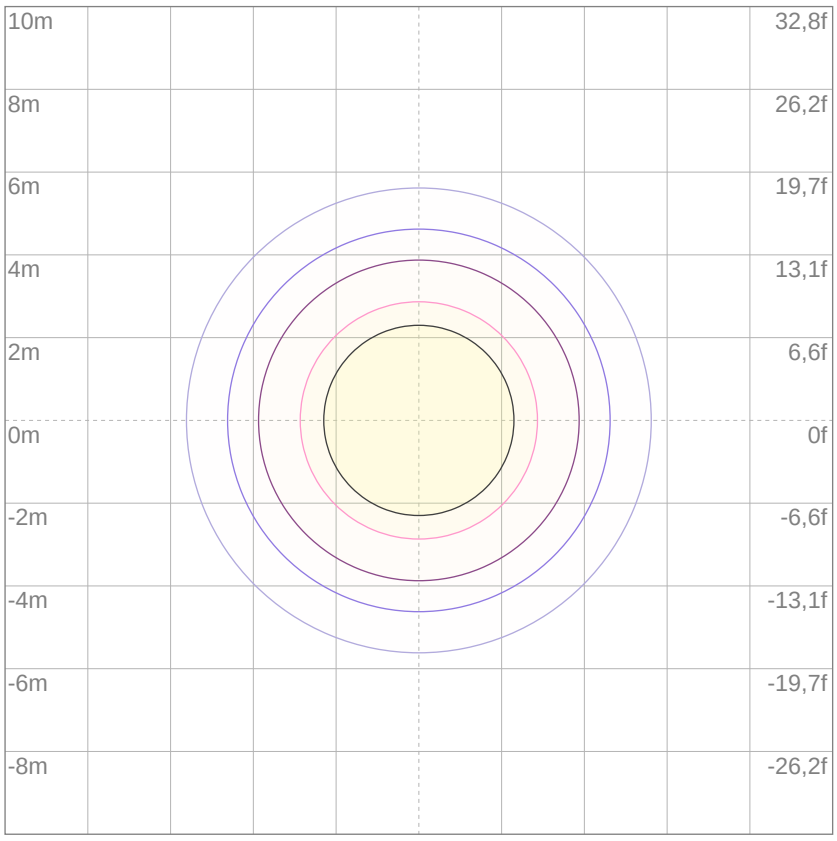
10%	1964 cd
20%	3927 cd
30%	5891 cd
40%	7855 cd
50%	9819 cd
60%	11782 cd
70%	13746 cd
80%	15710 cd

Conditions:

Number of c-planes: 2

Candela at center: 19637 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,89 lx
5%	9,82 lx
10%	19,6 lx
30%	58,9 lx
50%	98,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 196 lx

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

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Total lumen output:

4506 lm

Peak candela output:

3191 cd

Light quality:

CRI: 94,1

Color temperature:

3766 K

PRODUCT NAME:

ECLPAR FC

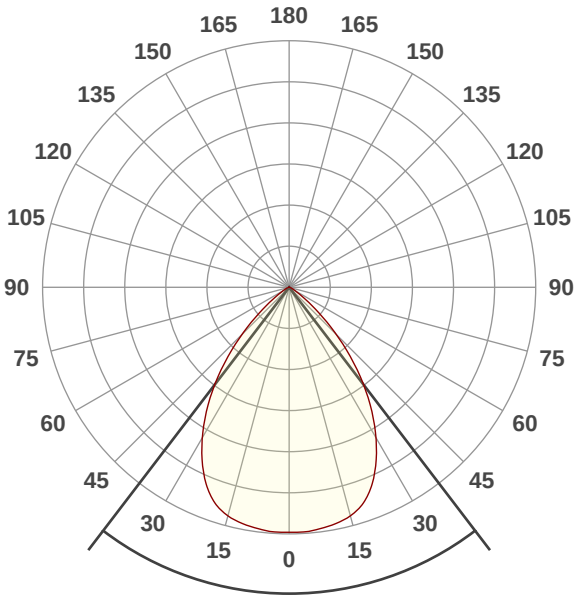
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
4000K

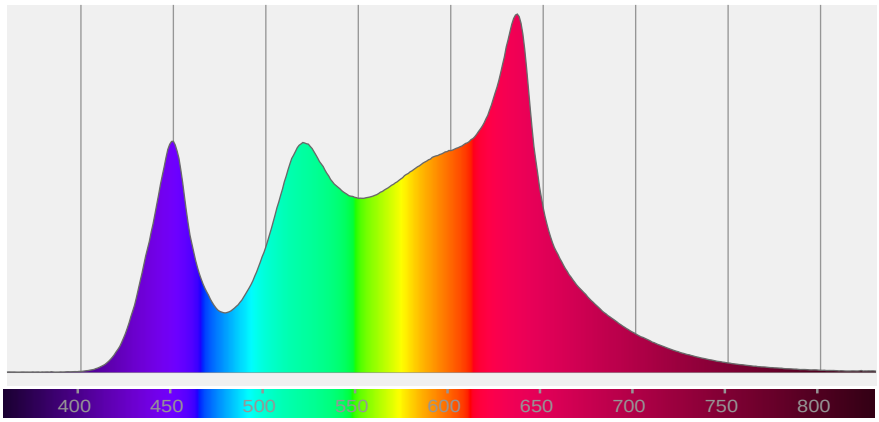
Operator:
Paolo Carvone

Date and time:
08/05/2020 11:05:00

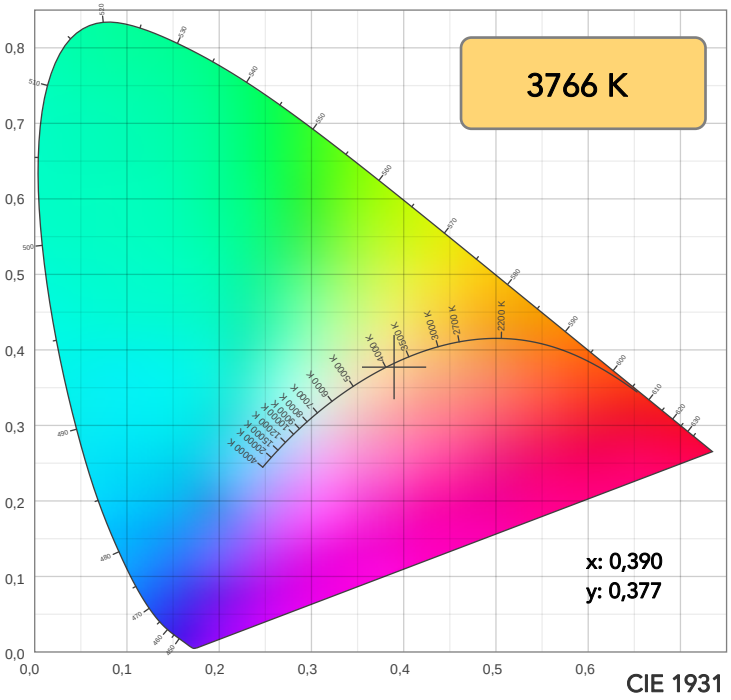


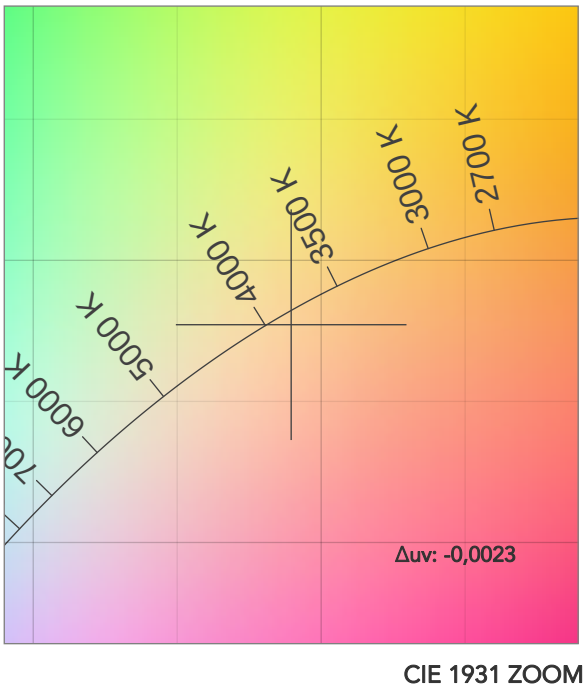
Beam angle 50%: 74,8°
Field angle 10%: 105,2°
Cut off angle 2.5%: 122,7°

Spectra

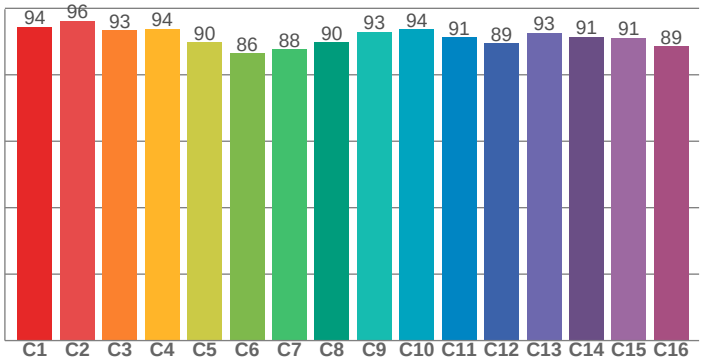


COLOR DETAILS

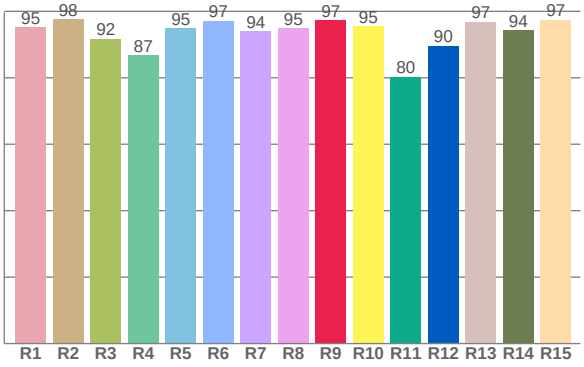




TM30: 91,6



CRI: 94,1 (R1-R8)



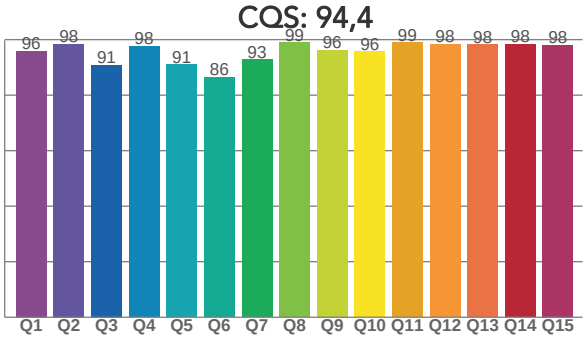
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,3	97,7	91,8	86,8	94,9	97,1	94,0	95,0	97,4	95,4	80,3	89,6	96,8	94,3	97,4

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
94,4	96,3	93,3	93,9	89,7	86,5	87,6	89,8	92,9	93,7	91,3	89,4	92,6	91,4	91,1	88,6

CQS: 94,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	98,5	90,9	97,6	91,1	86,4	92,9	99,0	96,2	95,7	98,9	98,3	98,2	98,3	98,1

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3766 K	94,1	97,4	91,6	106,3	94,4	84	0,390	0,377	-0,0023

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TM30 DETAILS

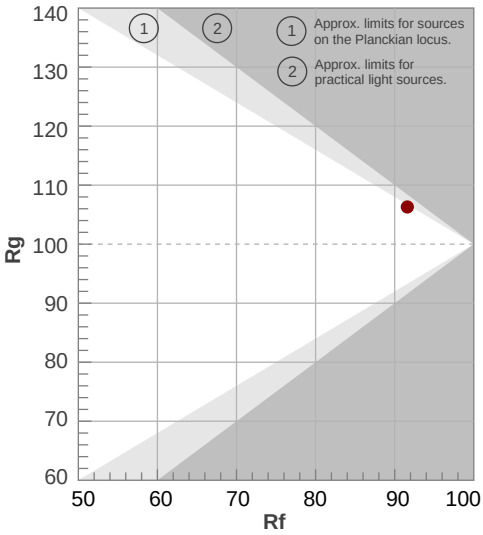
Rf 91,6

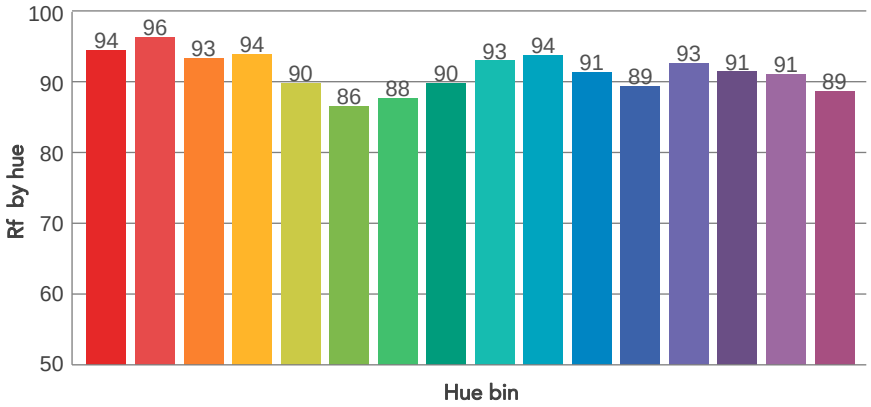
Fidelity index Rf

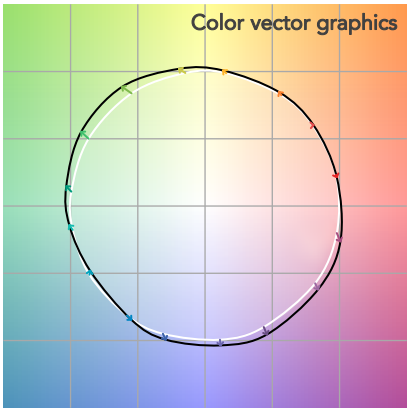
Rg 106,3

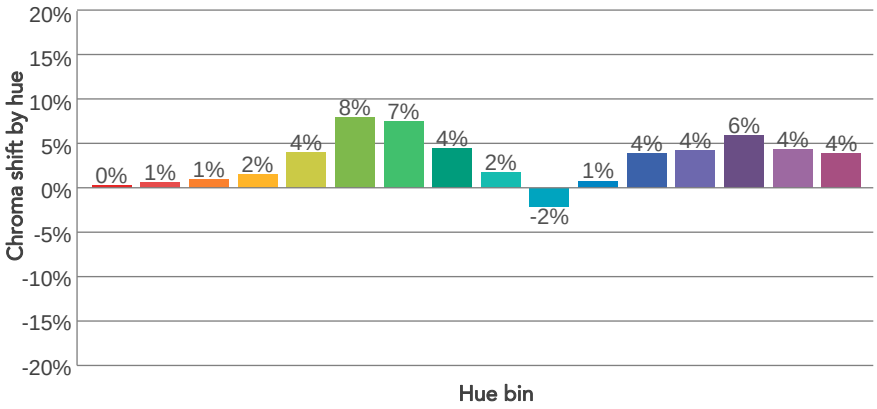
Gammut index

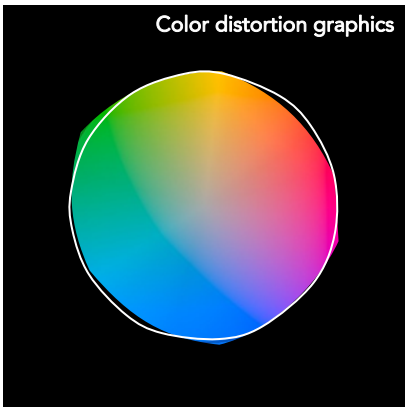
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	0%	-2%
2	96	1%	0%
3	93	1%	3%
4	94	2%	3%
5	90	4%	4%
6	86	8%	3%
7	88	7%	-1%
8	90	4%	-3%
9	93	2%	-4%
10	94	-2%	-2%
11	91	1%	4%
12	89	4%	3%
13	93	4%	0%
14	91	6%	-1%
15	91	4%	-3%
16	89	4%	-5%

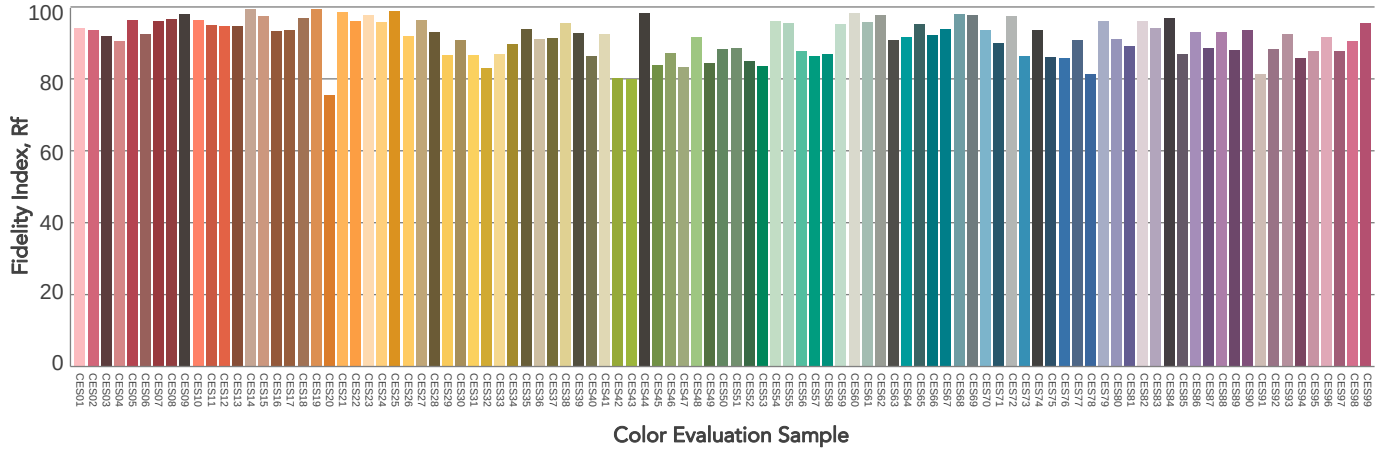












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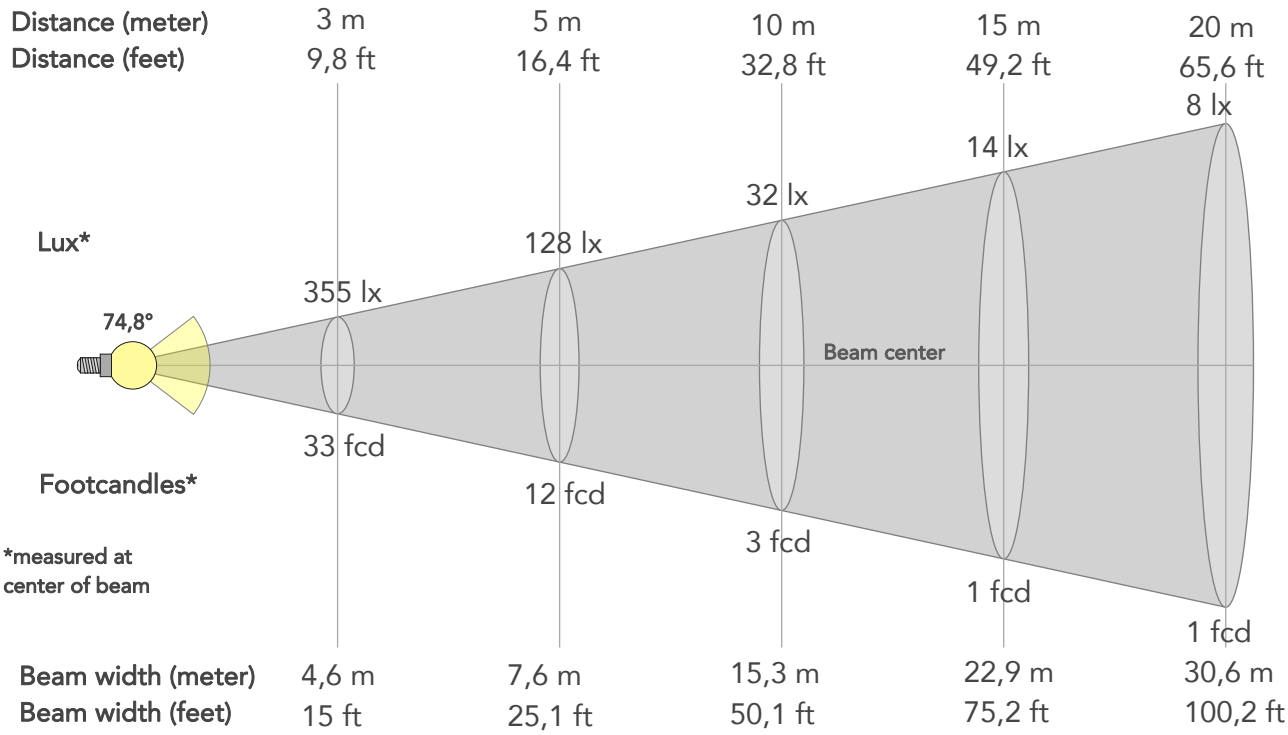
BEAM DETAILS

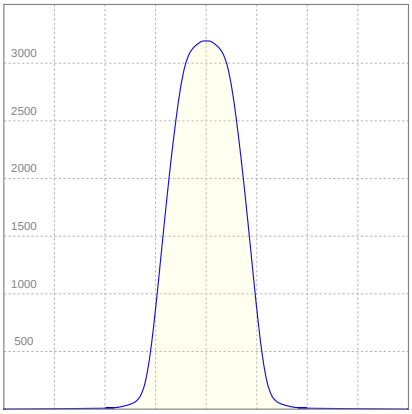
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,8°	105,2°	122,7°	97,2%	86,8%



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	3191lx	798lx	355lx	199lx	128lx	57lx	32lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	296fcd	74fcd	33fcd	19fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3,1m	4,6m	6,1m	7,6m	11,5m	15,3m	22,9m	30,6m	38,2m	45,8m	61,1m	76,4m
Beam wid.	5ft	10,1ft	15ft	20ft	25,1ft	37,6ft	50,1ft	75,2ft	100,2ft	125,3ft	150,4ft	200,5ft	250,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,501A	100,9W	45lm/W

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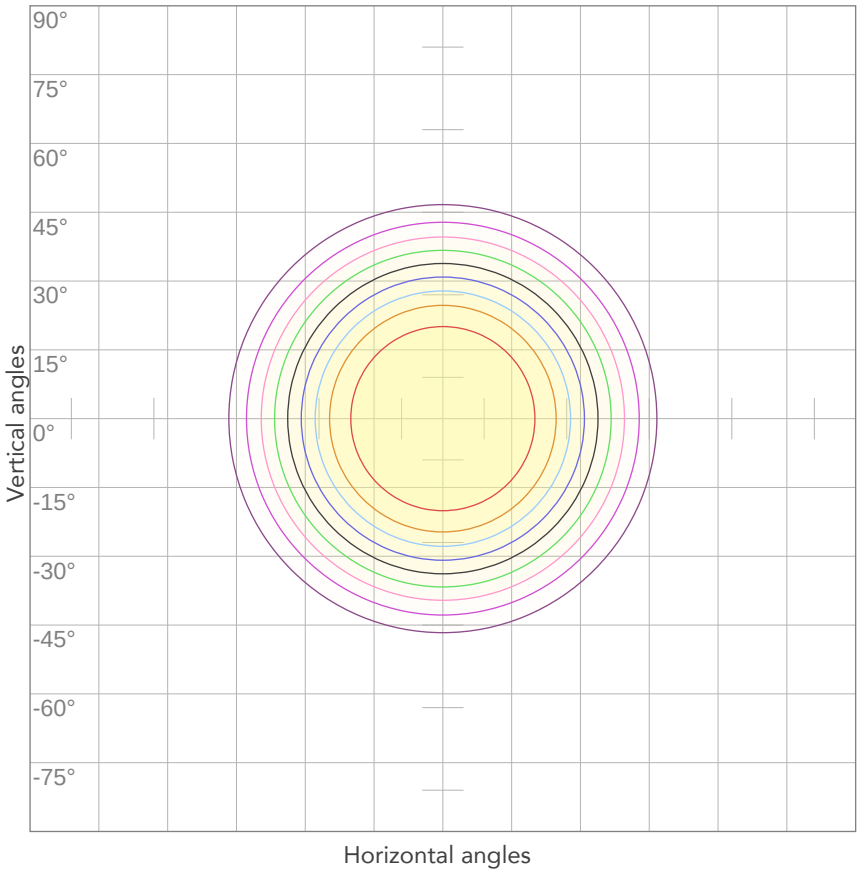
ISO DIAGRAMS

ISO CANDELA DIAGRAM



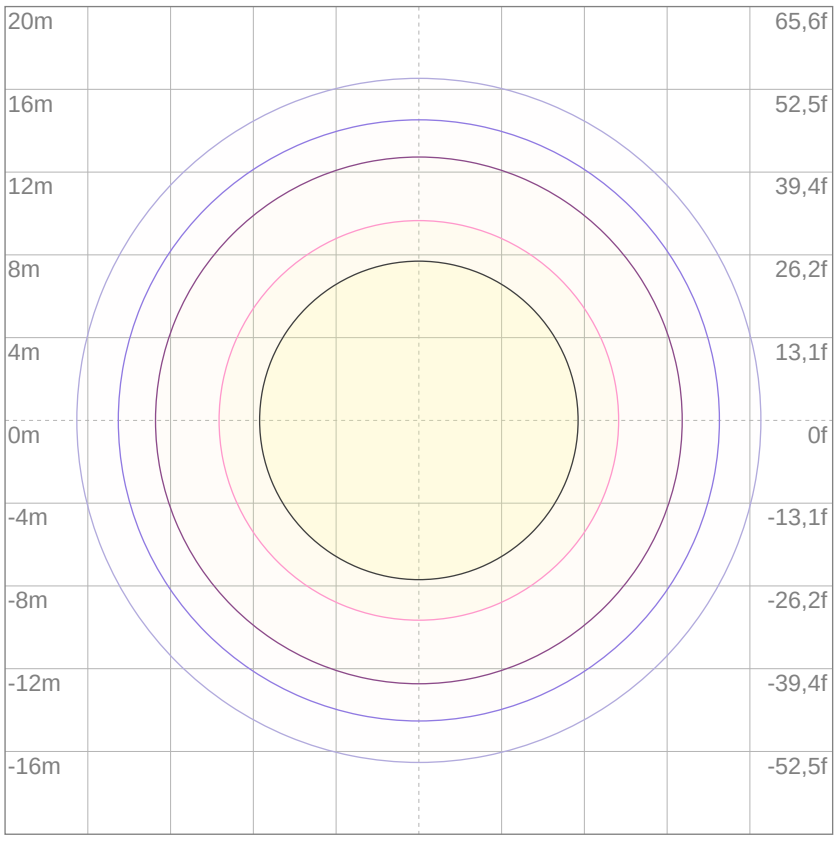
10%	319 cd
20%	638 cd
30%	957 cd
40%	1276 cd
50%	1595 cd
60%	1914 cd
70%	2233 cd
80%	2552 cd

Conditions:

Number of c-planes: 2

Candela at center: 3191 cd

ISO LUX DIAGRAM



3%	0,957 lx
5%	1,60 lx
10%	3,19 lx
30%	9,57 lx
50%	16,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 31,9 lx

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

Total lumen output:

5057 lm

Peak candela output:

21133 cd

Light quality:

CRI: 91,9

Color temperature:

5013 K

PRODUCT NAME:

ECLPAR FC

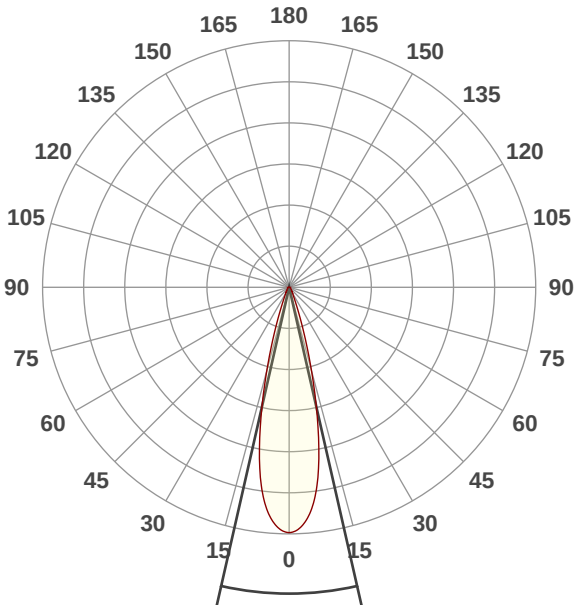
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
5600K

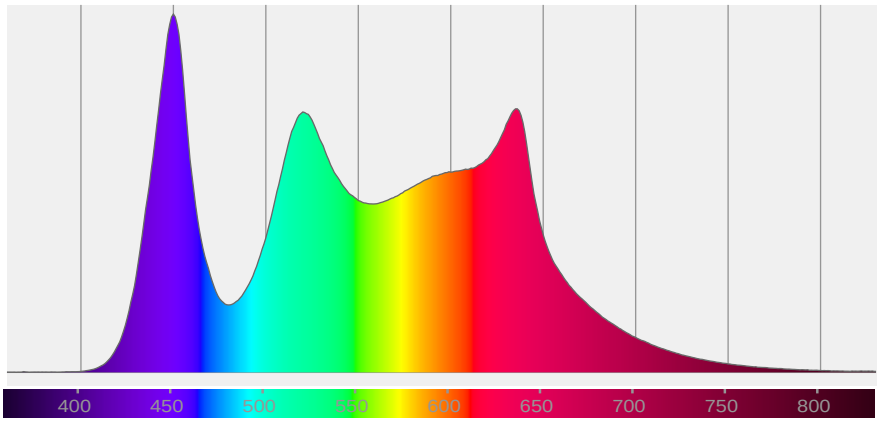
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:44:18

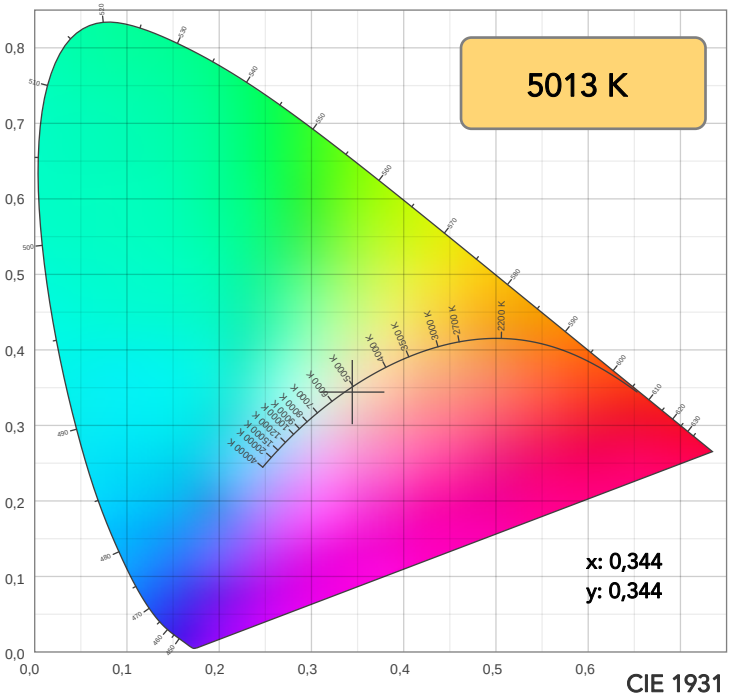


Beam angle 50%: 25,6°
Field angle 10%: 42,1°
Cut off angle 2.5%: 62,8°

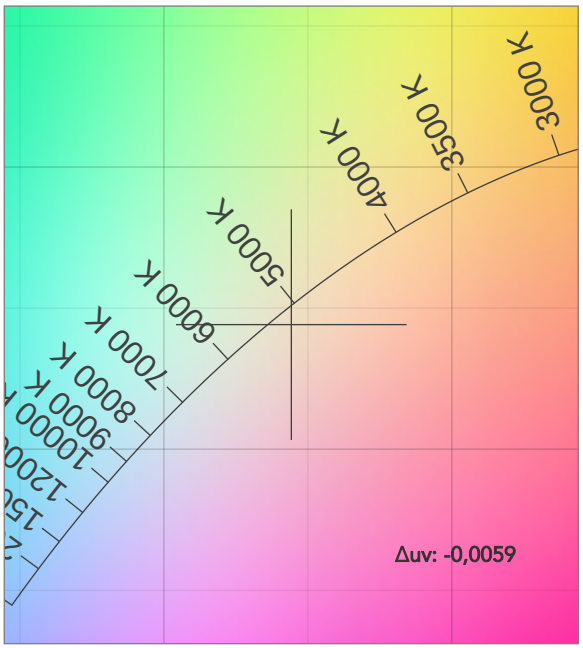
Spectra



COLOR DETAILS

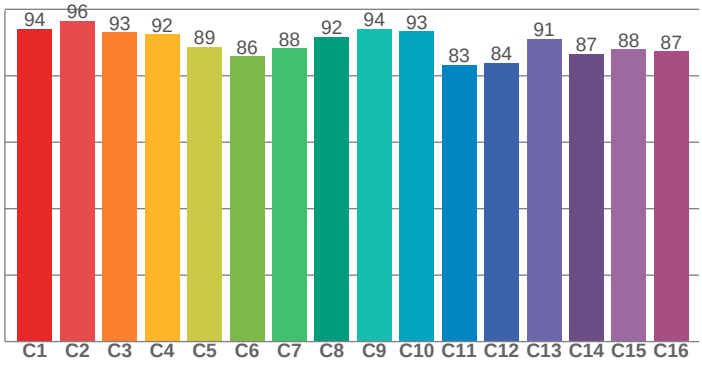


CIE 1931

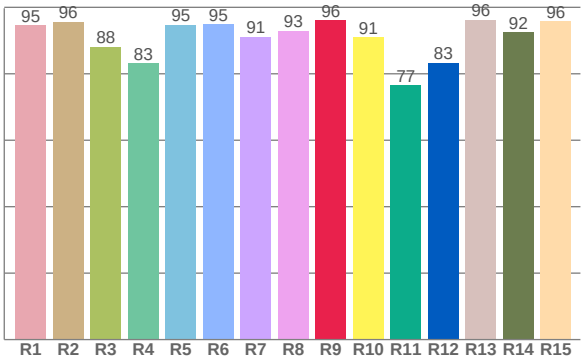


CIE 1931 ZOOM

TM30: 90,1



CRI: 91,9 (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
94,6	95,6	88,1	83,2	94,8	95,0	91,2	93,0	96,0	91,0	76,6	83,3	96,3	92,5	95,8

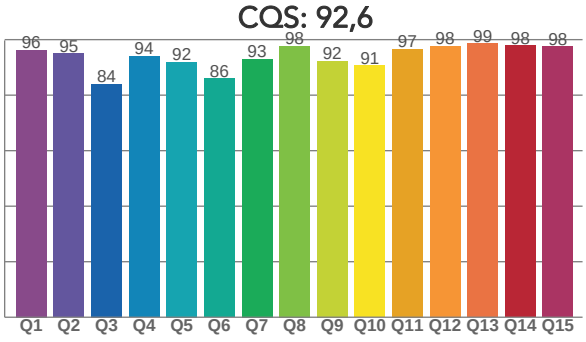
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,5	93,0	92,4	88,7	85,8	88,3	91,7	94,2	93,3	83,4	83,8	91,2	86,6	88,0	87,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,3	94,9	84,0	94,0	92,0	86,0	93,1	97,7	92,3	90,7	96,7	97,7	98,6	97,9	97,5

CQS: 92,6



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5013 K	91,9	96,0	90,1	106,4	92,6	85	0,344	0,344	-0,0059

TM30 DETAILS

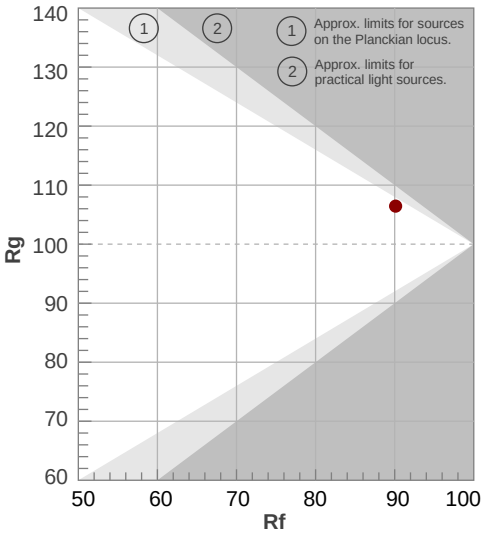
Rf 90,1

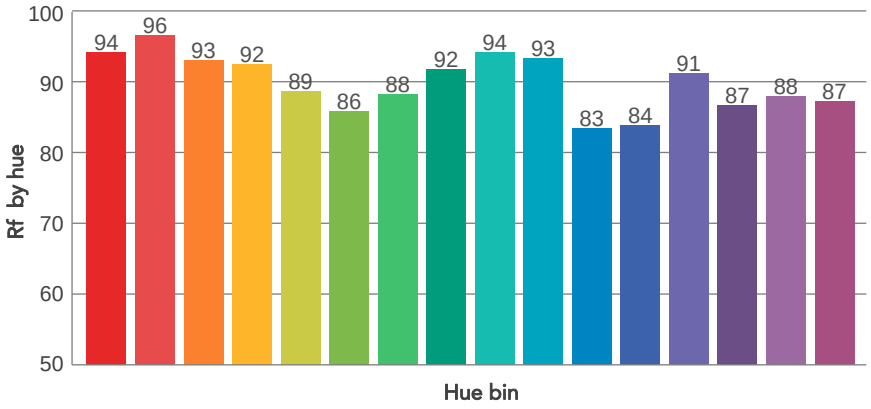
Fidelity index Rf

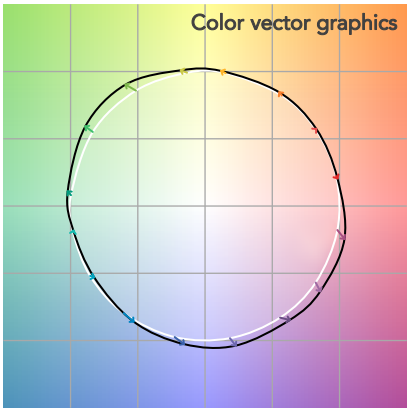
Rg 106,4

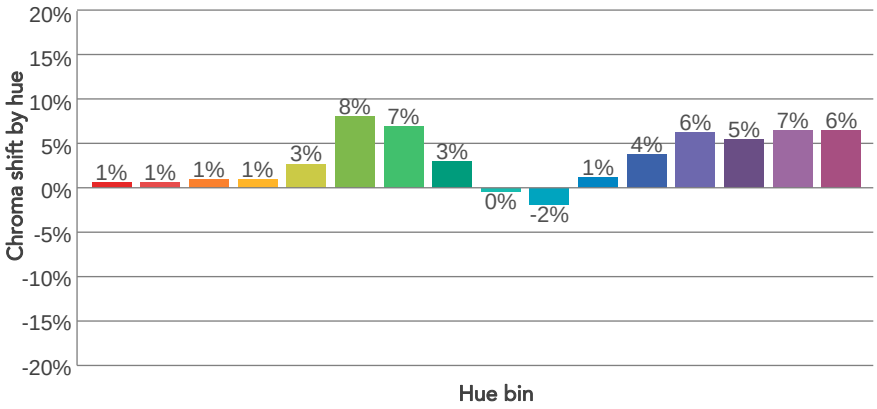
Gammut index

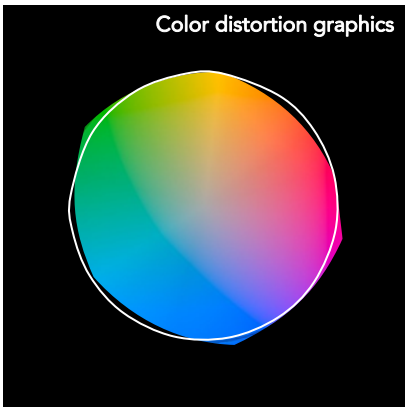
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	96	1%	0%
3	93	1%	3%
4	92	1%	4%
5	89	3%	4%
6	86	8%	4%
7	88	7%	0%
8	92	3%	-2%
9	94	0%	-1%
10	93	-2%	2%
11	83	1%	10%
12	84	4%	8%
13	91	6%	3%
14	87	5%	5%
15	88	7%	-4%
16	87	6%	-5%

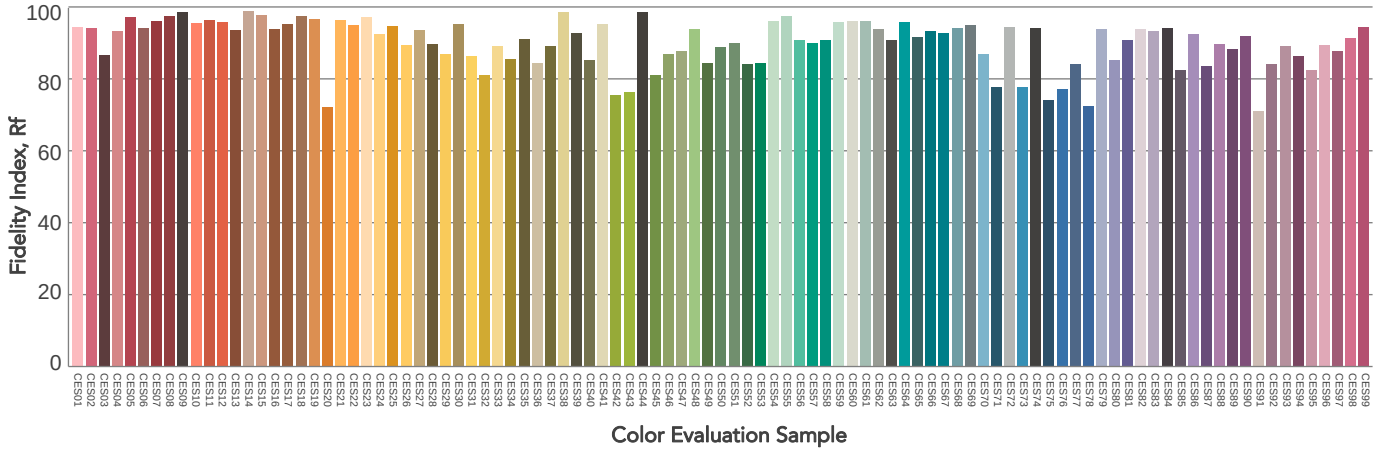












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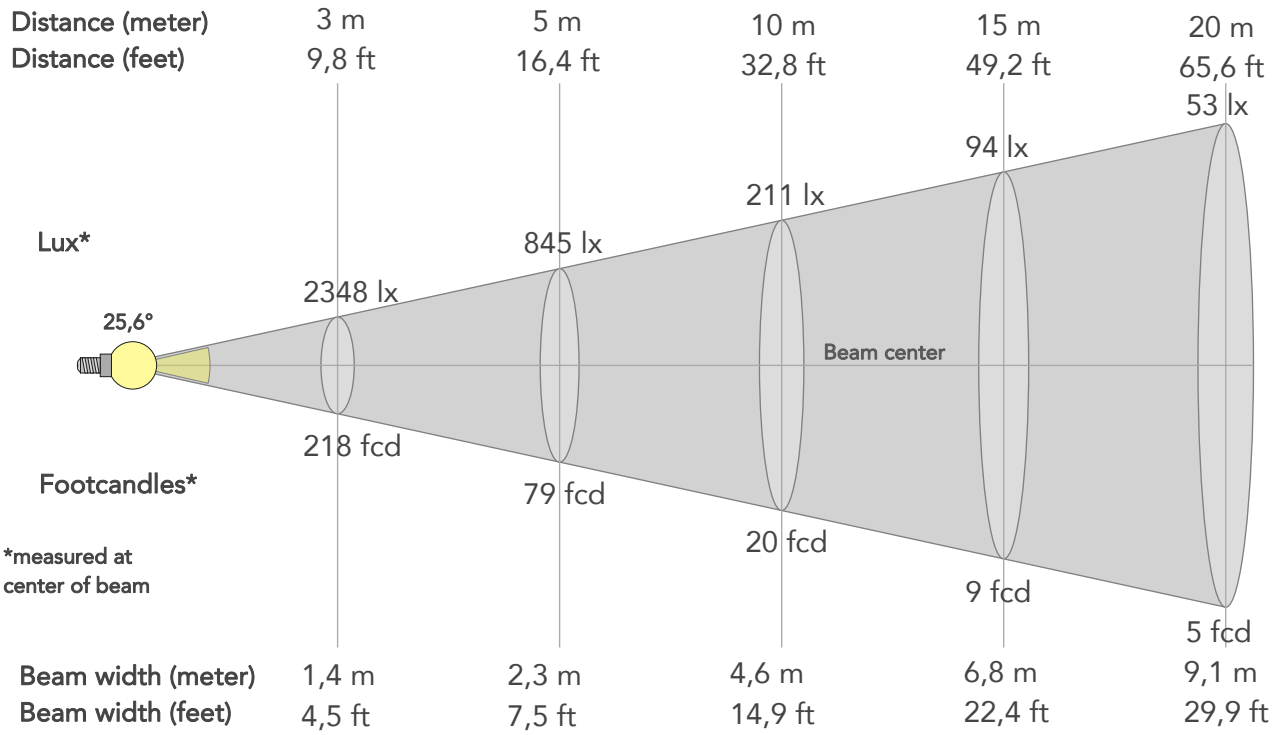
BEAM DETAILS

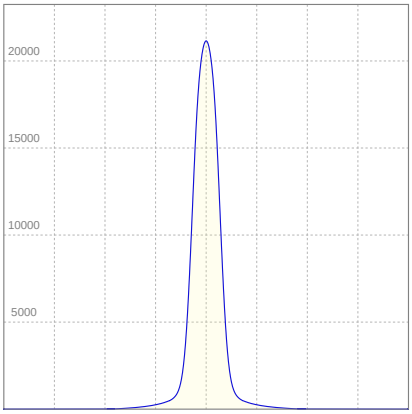
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,6°	42,1°	62,8°	96,9%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	21133lx	5283lx	2348lx	1321lx	845lx	376lx	211lx	94lx	53lx	34lx	23lx	13lx	8lx
Footcand.	1963fcd	491fcd	218fcd	123fcd	79fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,2m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	14,9ft	22,4ft	29,9ft	37,3ft	44,8ft	59,7ft	74,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,550A	111,8W	45lm/W

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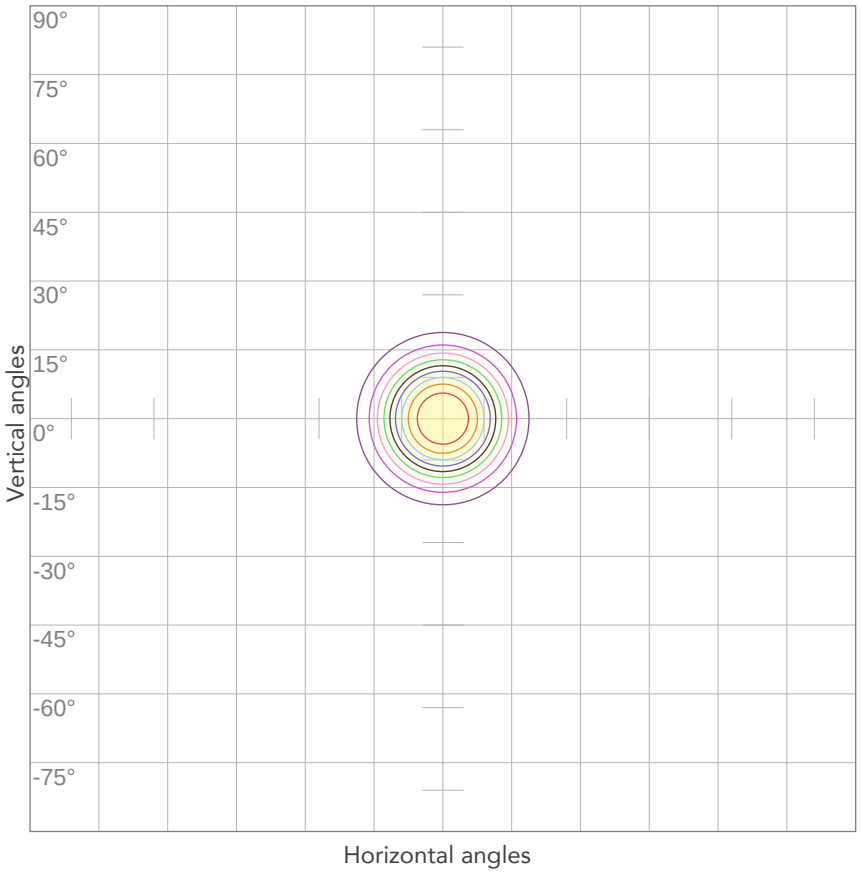
ISO DIAGRAMS

ISO CANDELA DIAGRAM



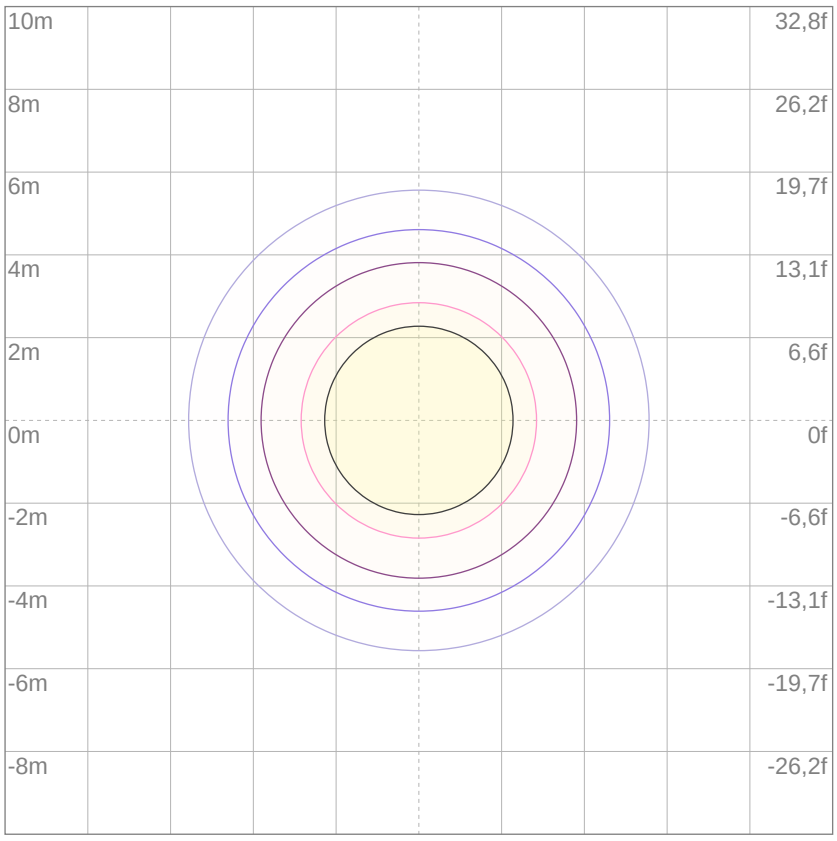
10%	2113 cd
20%	4227 cd
30%	6340 cd
40%	8453 cd
50%	10566 cd
60%	12680 cd
70%	14793 cd
80%	16906 cd

Conditions:

Number of c-planes: 2

Candela at center: 21133 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	6,34 lx
5%	10,6 lx
10%	21,1 lx
30%	63,4 lx
50%	106 lx

Conditions:

Number of c-planes: 2

Lux at center: 211 lx

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

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Total lumen output:

4814 lm

Peak candela output:

3426 cd

Light quality:

CRI: 91,5

Color temperature:

5047 K

PRODUCT NAME:

ECLPAR FC

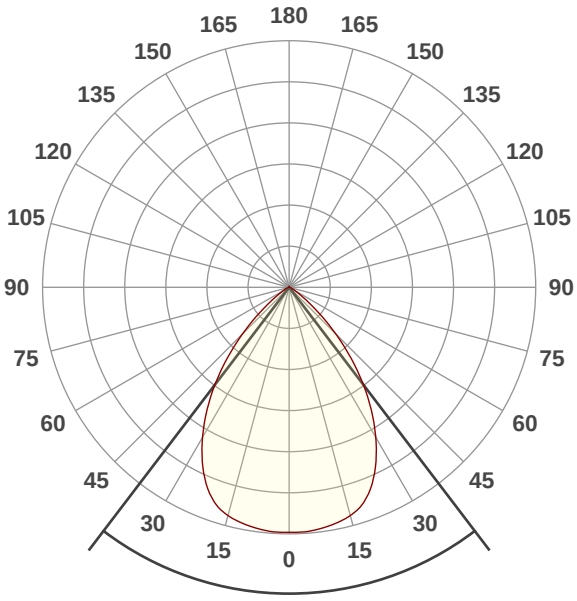
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
5600K

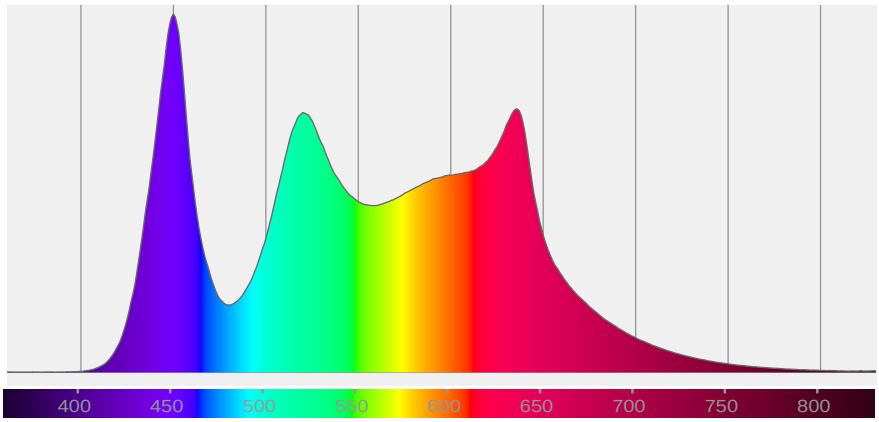
Operator:
Paolo Carvone

Date and time:
08/05/2020 11:06:43

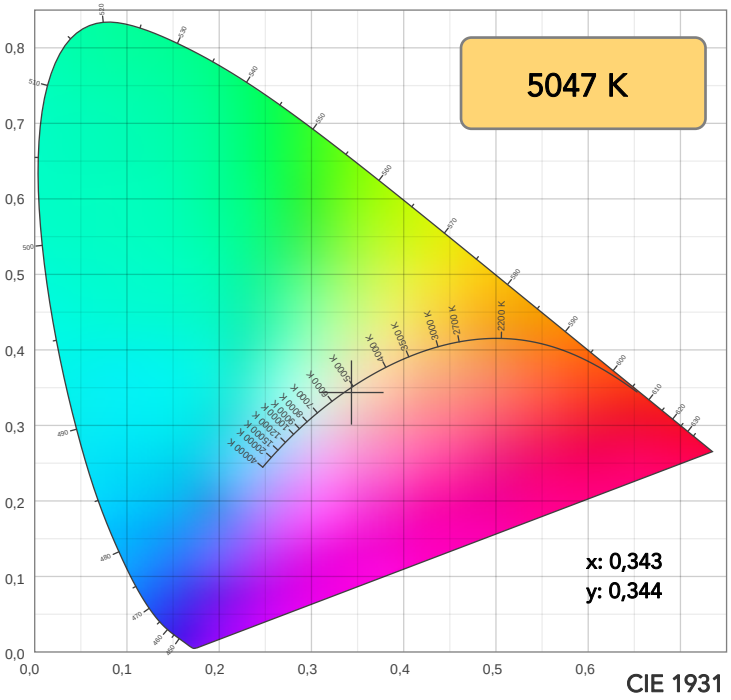


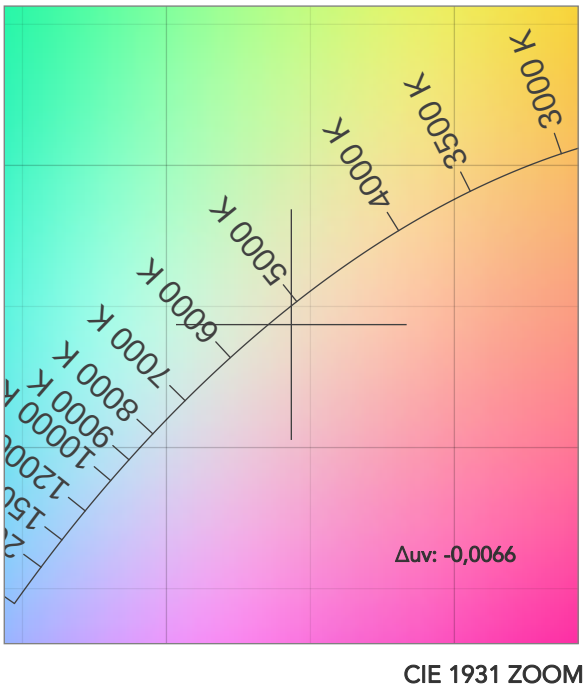
Beam angle 50%: 74,6°
Field angle 10%: 104,8°
Cut off angle 2.5%: 122,4°

Spectra

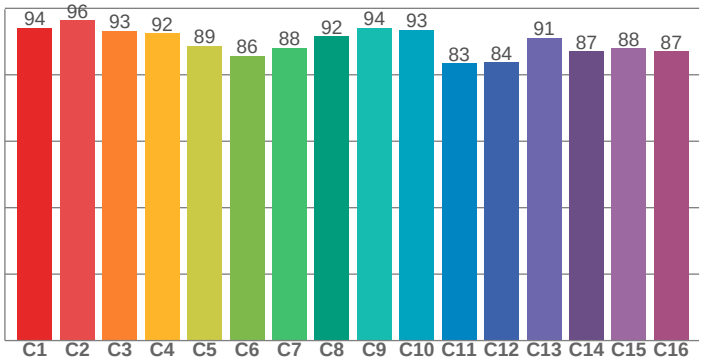


COLOR DETAILS

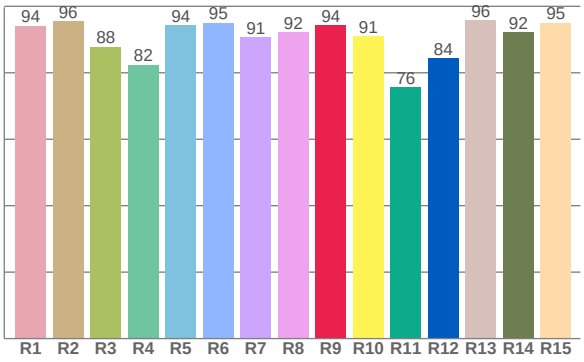




TM30: 90,1



CRI: 91,5 (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
94,1	95,6	87,8	82,4	94,2	95,0	90,7	92,2	94,2	91,1	75,7	84,5	95,8	92,3	95,0

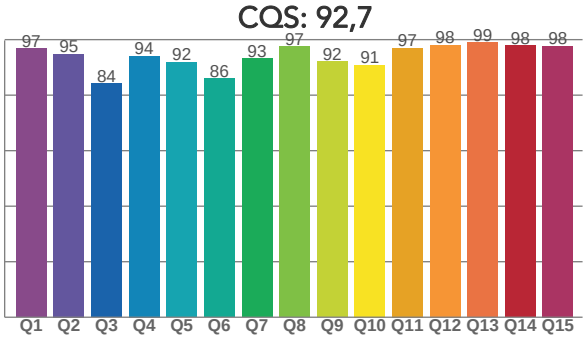
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	96,3	93,2	92,5	88,7	85,7	88,1	91,6	94,1	93,5	83,4	83,8	91,1	87,0	87,9	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	94,9	84,1	94,2	91,9	86,0	93,2	97,4	92,2	90,8	97,0	98,1	98,9	97,9	97,7

CQS: 92,7



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
5047 K	91,5	94,2	90,1	106,8	92,7	85	0,343	0,344	-0,0066

TM30 DETAILS

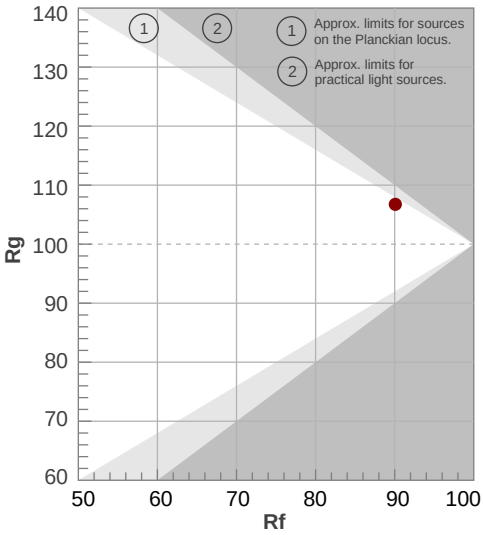
Rf 90,1

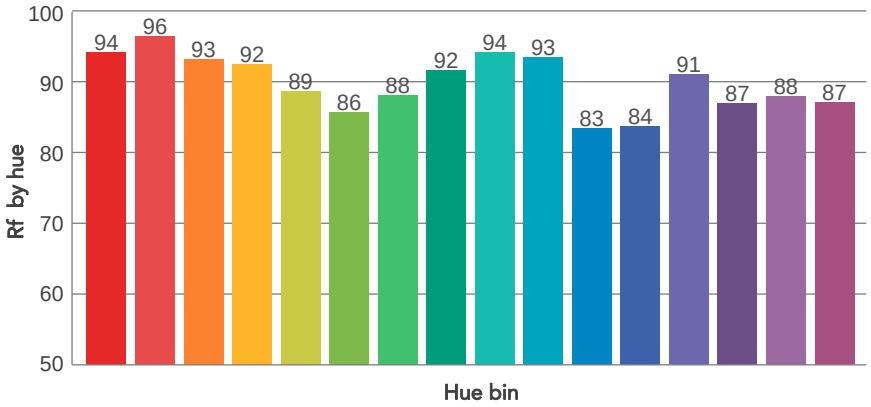
Fidelity index Rf

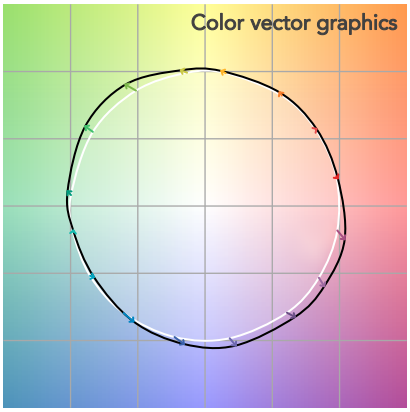
Rg 106,8

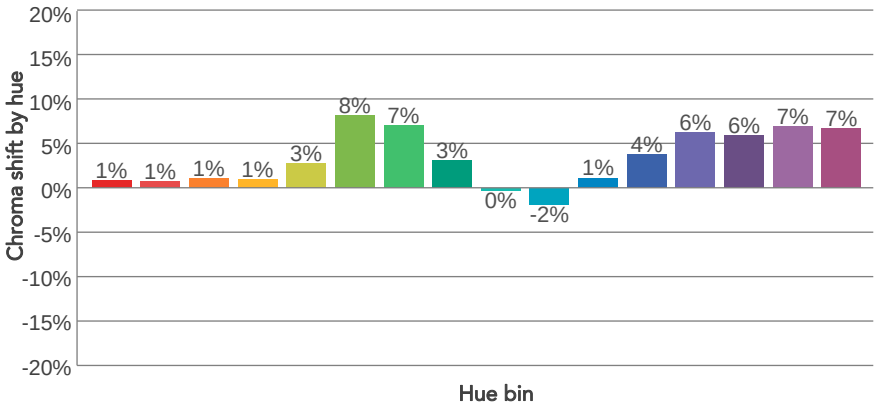
Gammut index

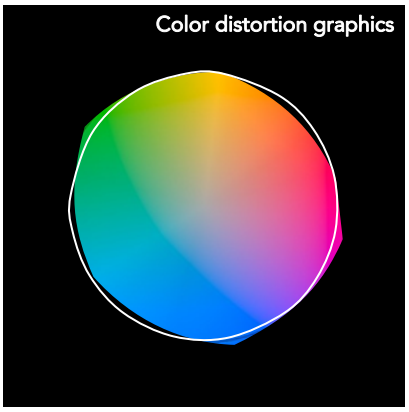
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	96	1%	0%
3	93	1%	3%
4	92	1%	4%
5	89	3%	4%
6	86	8%	4%
7	88	7%	0%
8	92	3%	-2%
9	94	0%	-1%
10	93	-2%	2%
11	83	1%	10%
12	84	4%	8%
13	91	6%	3%
14	87	6%	3%
15	88	7%	-3%
16	87	7%	-5%

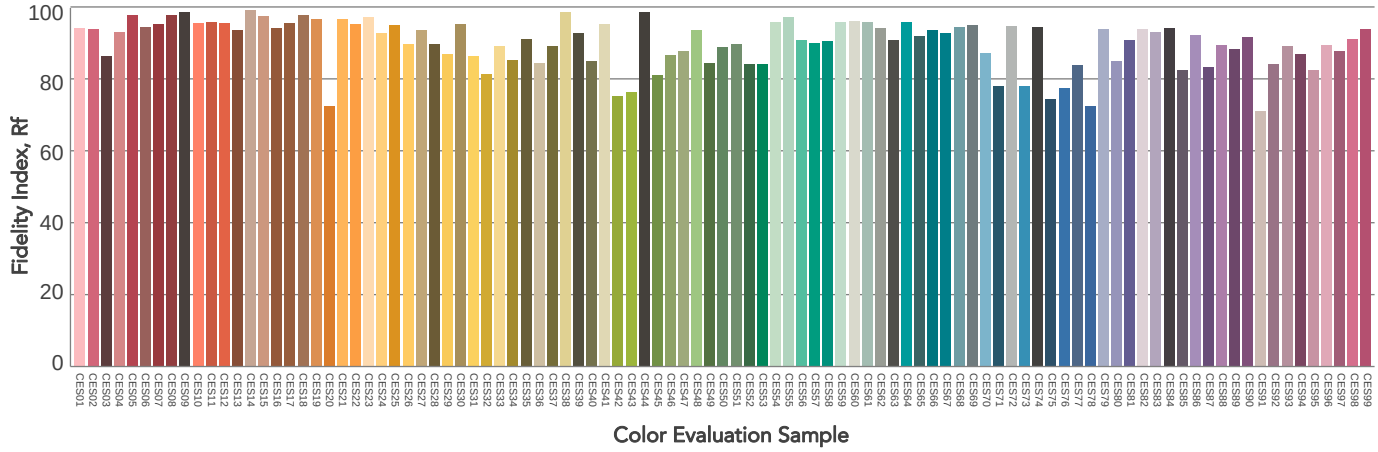












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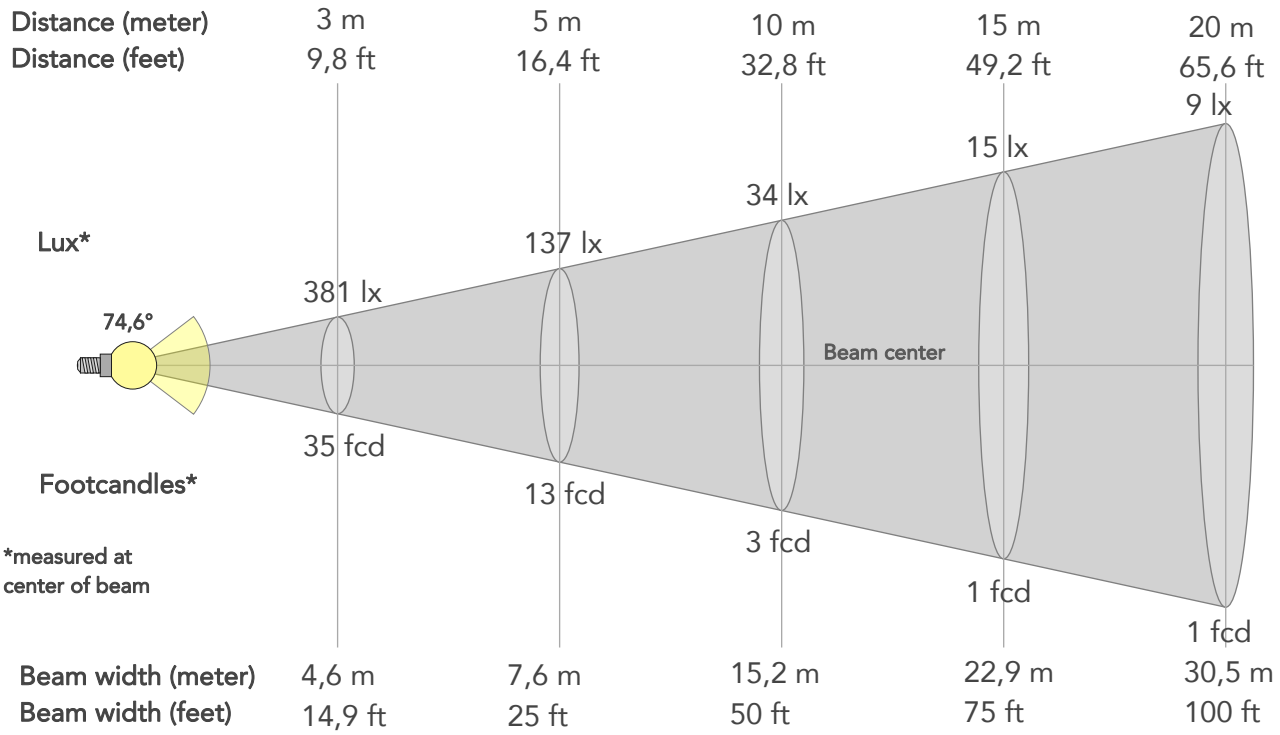
BEAM DETAILS

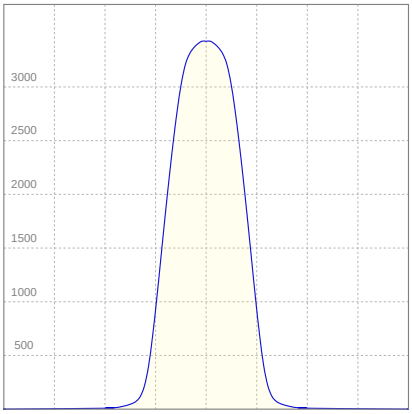
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,6°	104,8°	122,4°	97,2%	86,9%



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	3425lx	856lx	381lx	214lx	137lx	61lx	34lx	15lx	9lx	5lx	4lx	2lx	1lx
Footcand.	318fcd	80fcd	35fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,6m	6,1m	7,6m	11,4m	15,2m	22,9m	30,5m	38,1m	45,7m	60,9m	76,2m
Beam wid.	5ft	10,1ft	14,9ft	20ft	25ft	37,5ft	50ft	75ft	100ft	124,9ft	149,9ft	199,9ft	249,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,544A	111,2W	43lm/W

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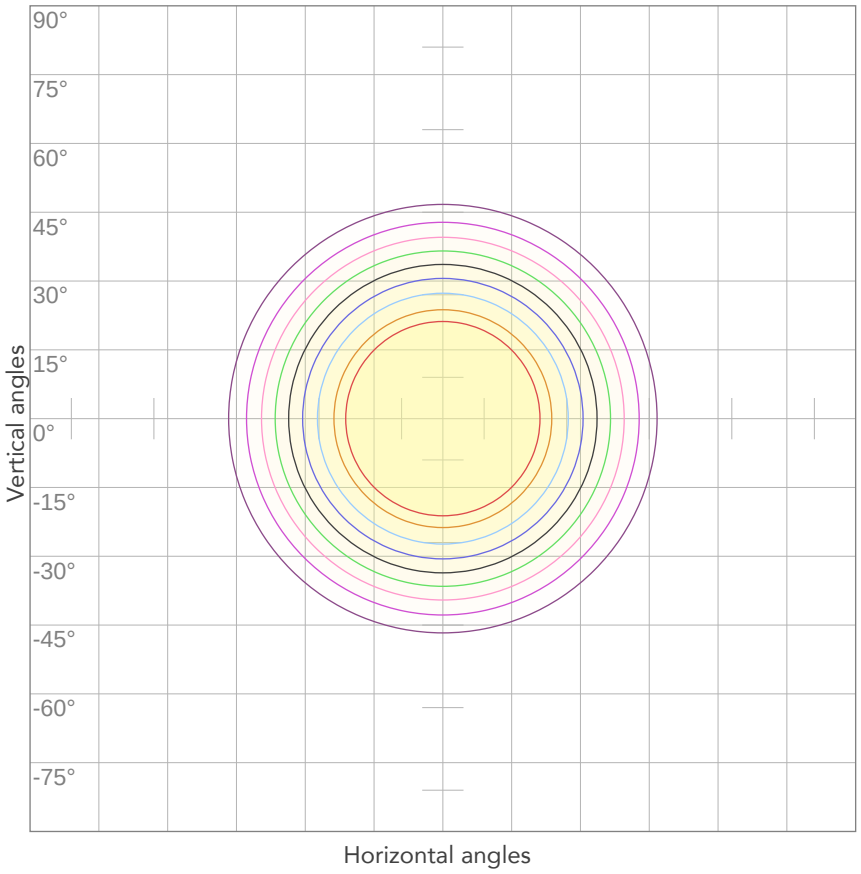
ISO DIAGRAMS

ISO CANDELA DIAGRAM



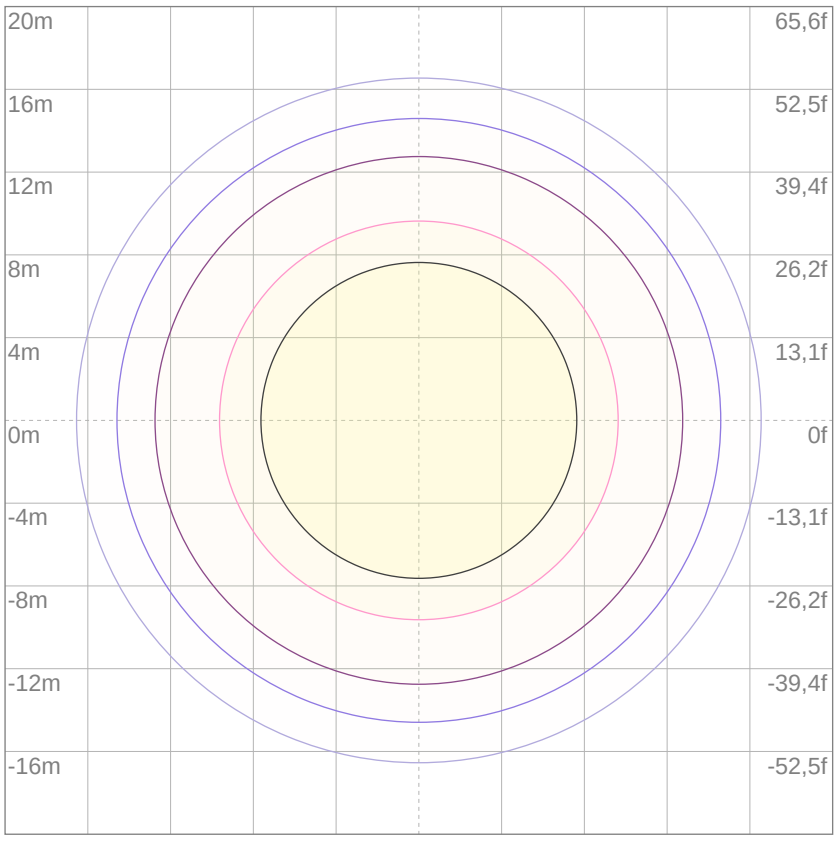
10%	342 cd
20%	685 cd
30%	1027 cd
40%	1370 cd
50%	1712 cd
60%	2055 cd
70%	2397 cd
80%	2740 cd

Conditions:

Number of c-planes: 2

Candela at center: 3425 cd

ISO LUX DIAGRAM



3%	1,03 lx
5%	1,71 lx
10%	3,42 lx
30%	10,3 lx
50%	17,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 34,2 lx

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

Total lumen output:

5052 lm

Peak candela output:

21031 cd

Light quality:

CRI: 91,3

Color temperature:

5302 K

PRODUCT NAME:

ECLPAR FC

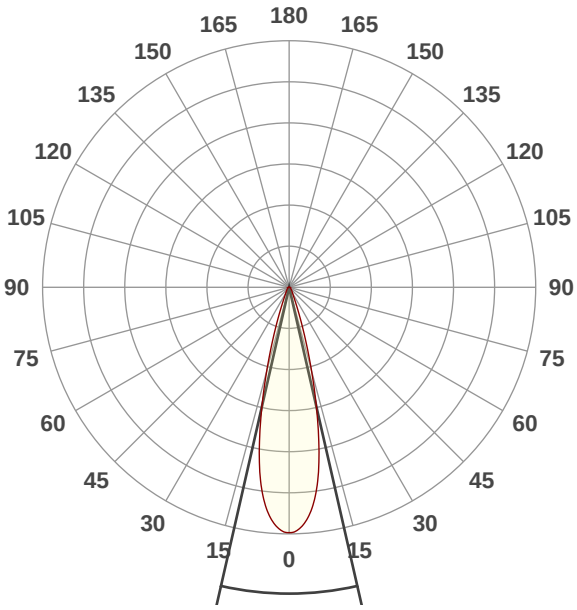
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
6000K

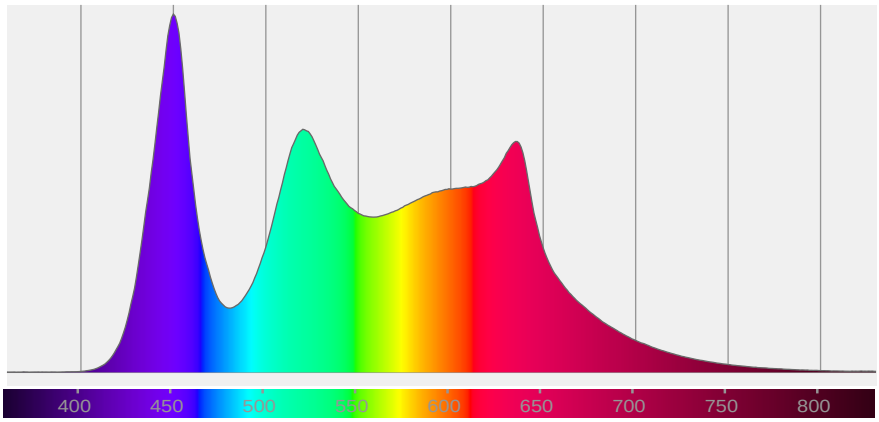
Operator:
Paolo Carvone

Date and time:
08/05/2020 10:46:10



Beam angle 50%: 25,7°
Field angle 10%: 42°
Cut off angle 2.5%: 62,7°

Spectra



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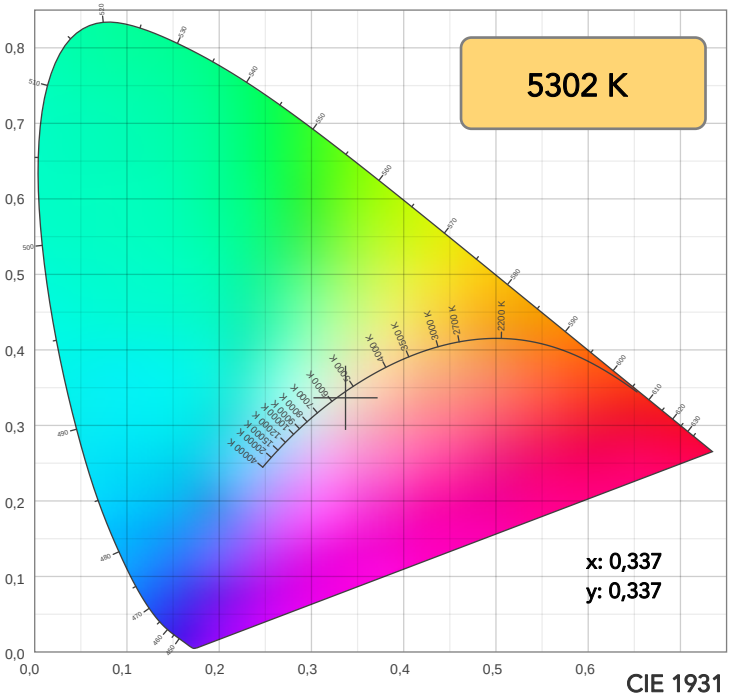
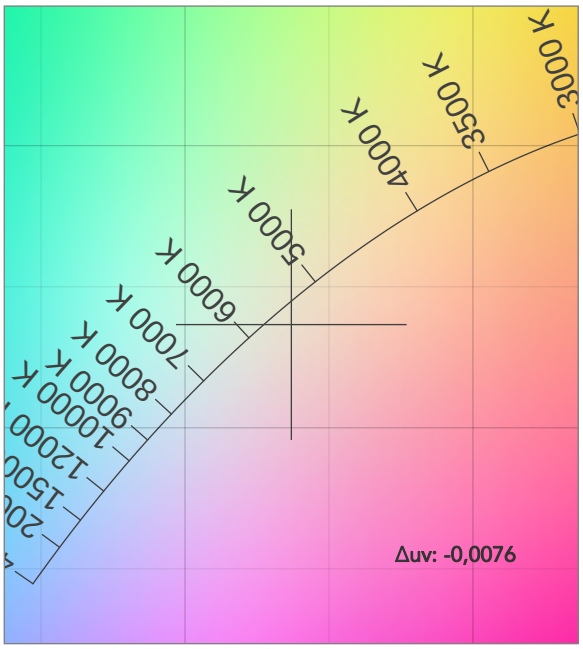
COLOR DETAILS

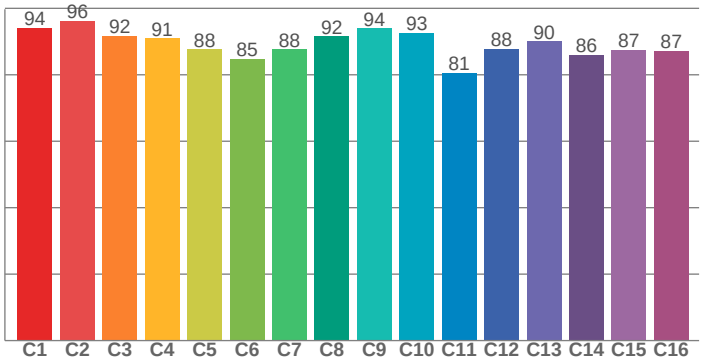


CIE 1931

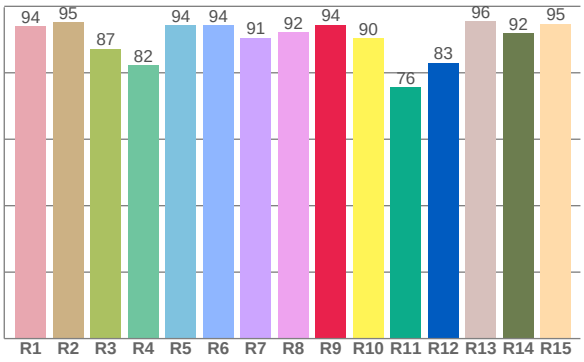


CIE 1931 ZOOM

TM30: 89,3



CRI: 91,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,9	95,3	87,3	82,2	94,4	94,3	90,6	92,3	94,4	90,3	75,6	83,0	95,5	92,0	94,7

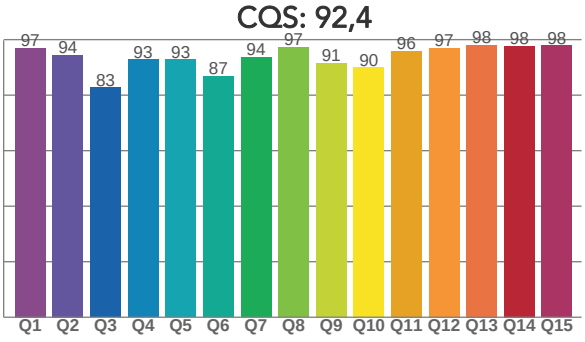
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,2	96,3	91,7	90,9	87,7	84,8	87,6	91,5	94,0	92,6	80,7	87,7	90,1	86,0	87,5	87,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	94,5	82,8	92,8	92,9	86,8	93,6	97,2	91,5	89,9	95,9	97,0	98,1	97,7	97,9

CQS: 92,4



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5302 K	91,3	94,4	89,3	107,0	92,4	86	0,337	0,337	-0,0076

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TM30 DETAILS

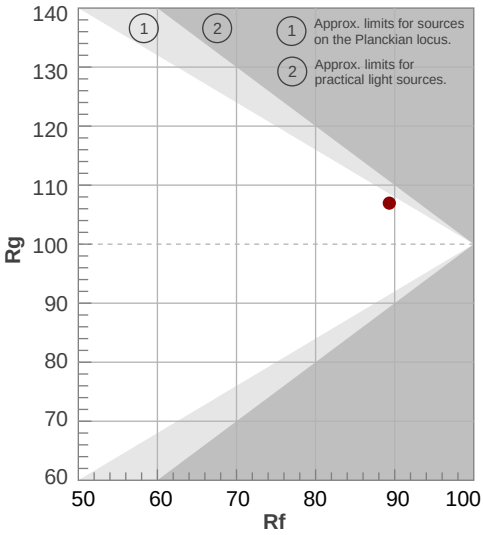
Rf 89,3

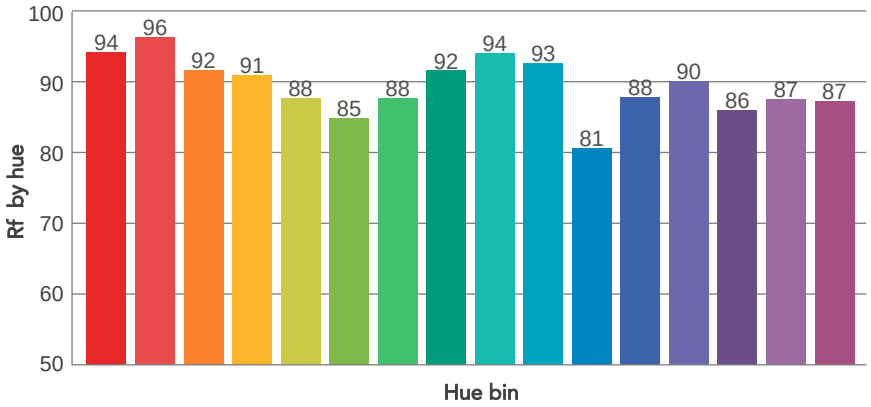
Fidelity index Rf

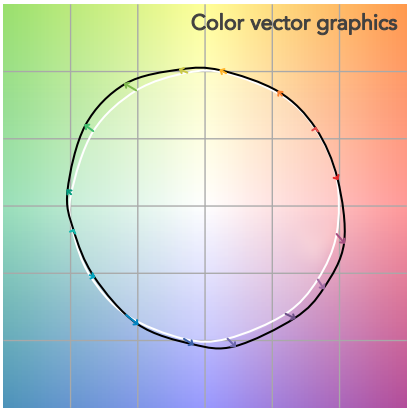
Rg 107,0

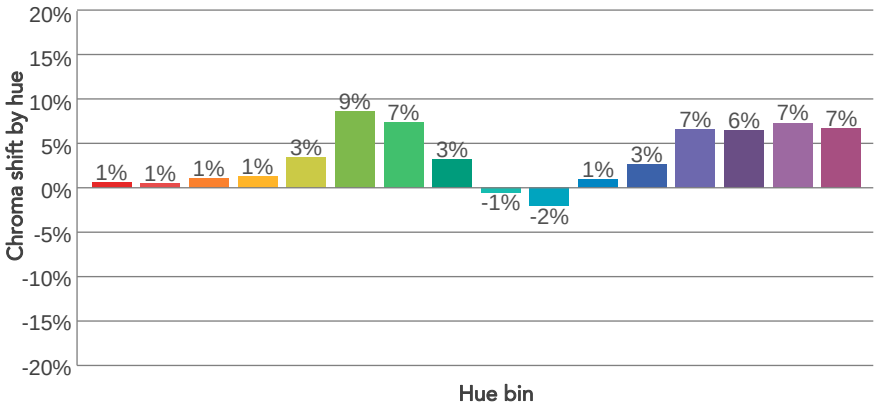
Gammut index

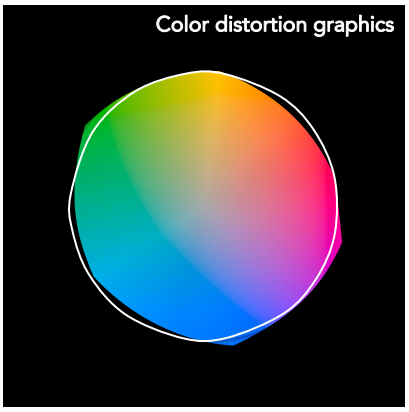
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	94	1%	-2%
2	96	1%	1%
3	92	1%	4%
4	91	1%	4%
5	88	3%	5%
6	85	9%	4%
7	88	7%	0%
8	92	3%	-2%
9	94	-1%	-1%
10	93	-2%	3%
11	81	1%	11%
12	88	3%	7%
13	90	7%	4%
14	86	6%	4%
15	87	7%	-3%
16	87	7%	-5%

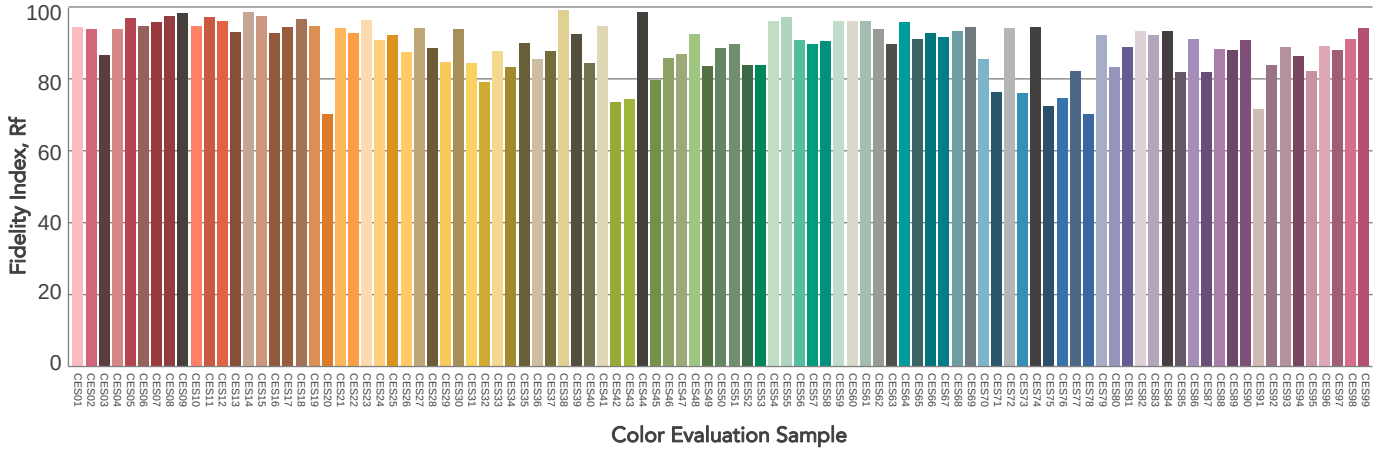












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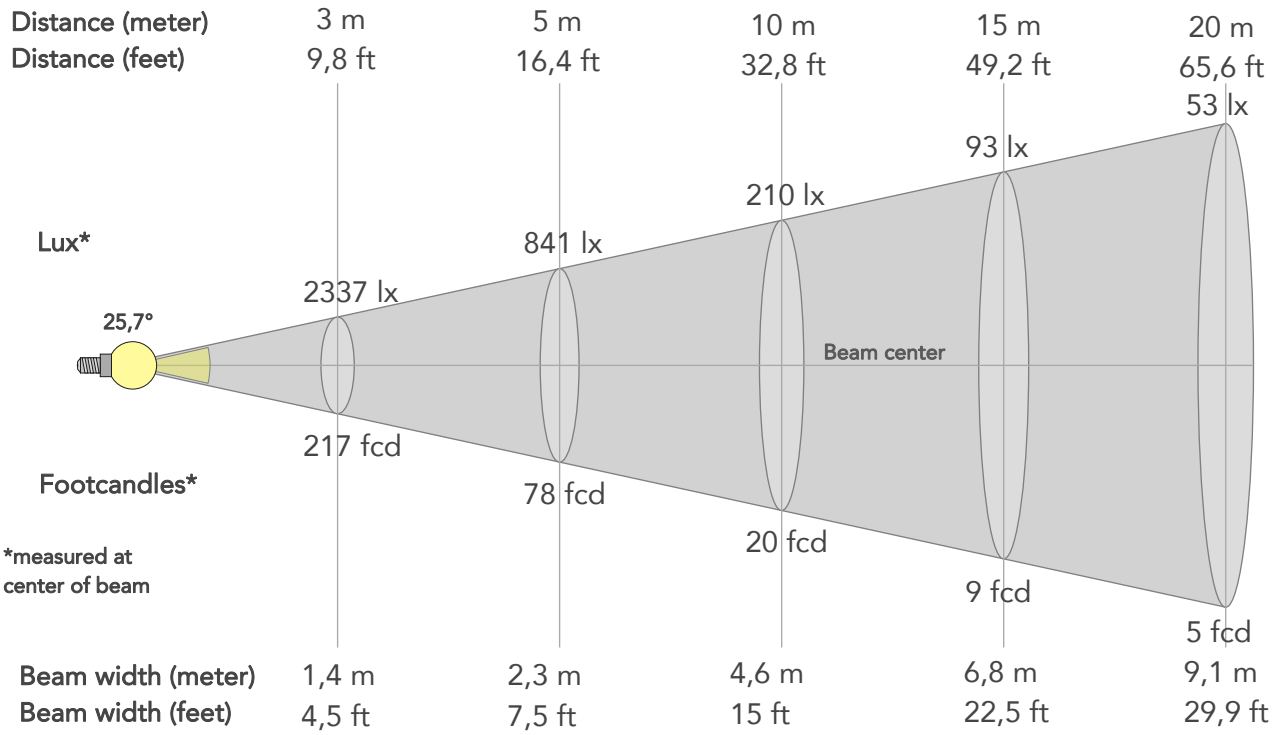
BEAM DETAILS

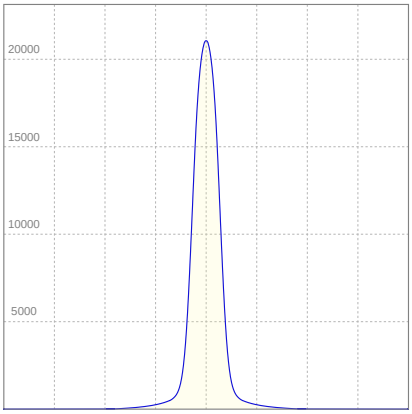
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25,7°	42°	62,7°	96,9%	92,4%



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	21031lx	5258lx	2337lx	1314lx	841lx	374lx	210lx	93lx	53lx	34lx	23lx	13lx	8lx
Footcand.	1954fcd	488fcd	217fcd	122fcd	78fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	0,9m	1,4m	1,8m	2,3m	3,4m	4,6m	6,8m	9,1m	11,4m	13,7m	18,3m	22,8m
Beam wid.	1,5ft	3ft	4,5ft	6ft	7,5ft	11,2ft	15ft	22,5ft	29,9ft	37,4ft	44,9ft	59,9ft	74,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,552A	112,5W	45lm/W

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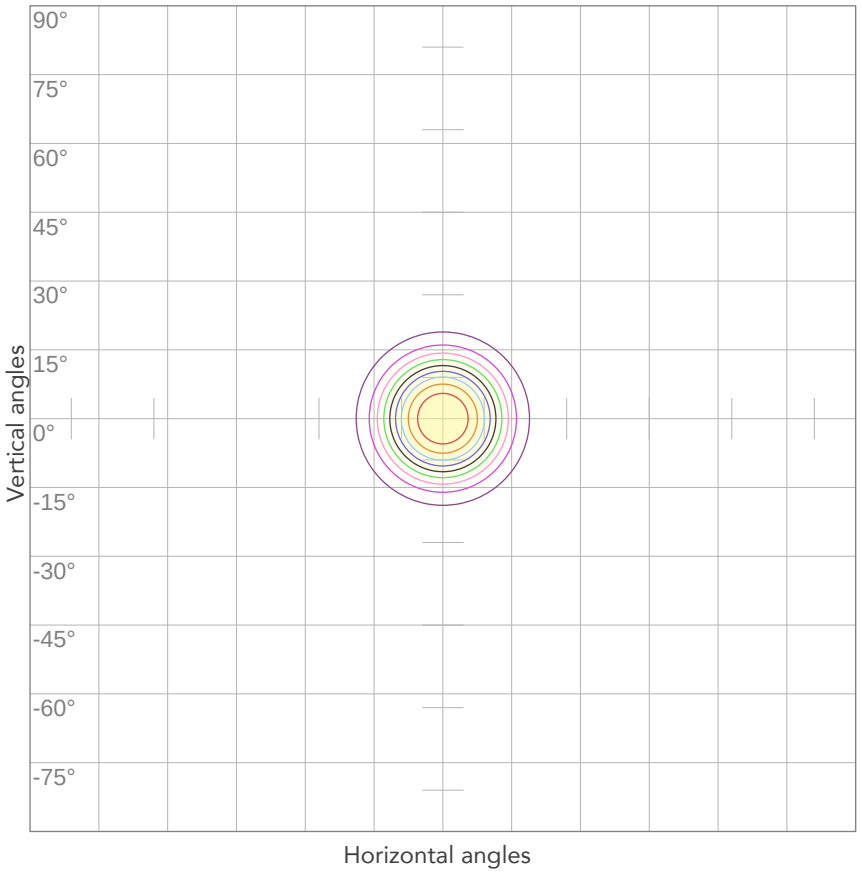
ISO DIAGRAMS

ISO CANDELA DIAGRAM



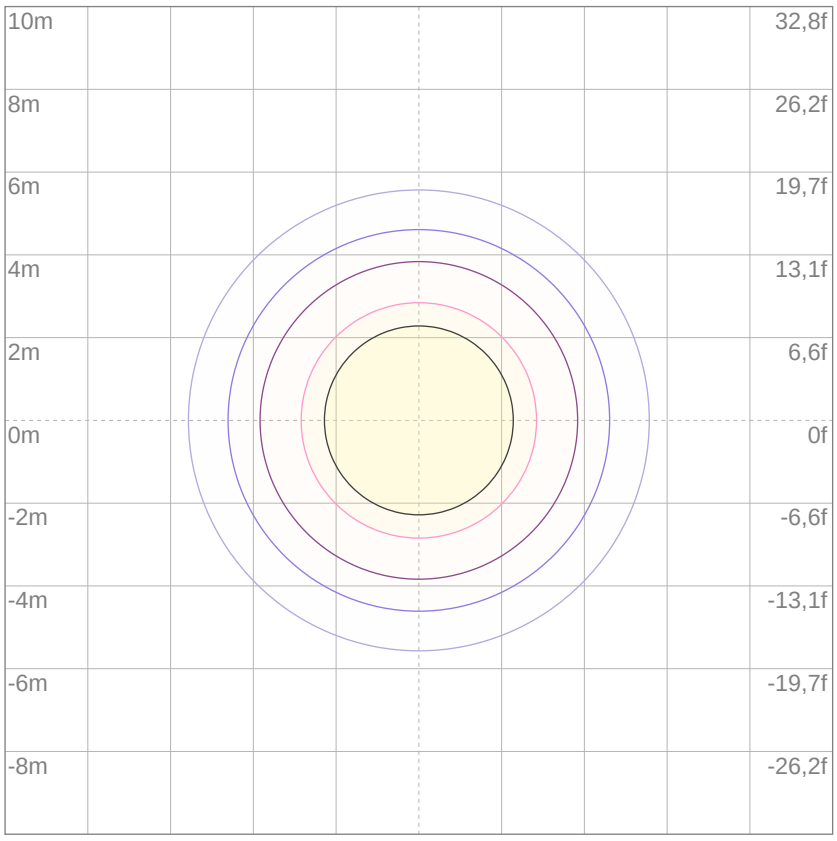
10%	2103 cd
20%	4206 cd
30%	6309 cd
40%	8412 cd
50%	10515 cd
60%	12618 cd
70%	14721 cd
80%	16825 cd

Conditions:

Number of c-planes: 2

Candela at center: 21031 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	6,31 lx
5%	10,5 lx
10%	21,0 lx
30%	63,1 lx
50%	105 lx

Conditions:

Number of c-planes: 2

Lux at center: 210 lx

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

Total lumen output:

4798 lm

Peak candela output:

3416 cd

Light quality:

CRI: 91,1

Color temperature:

5341 K

PRODUCT NAME:

ECLPAR FC

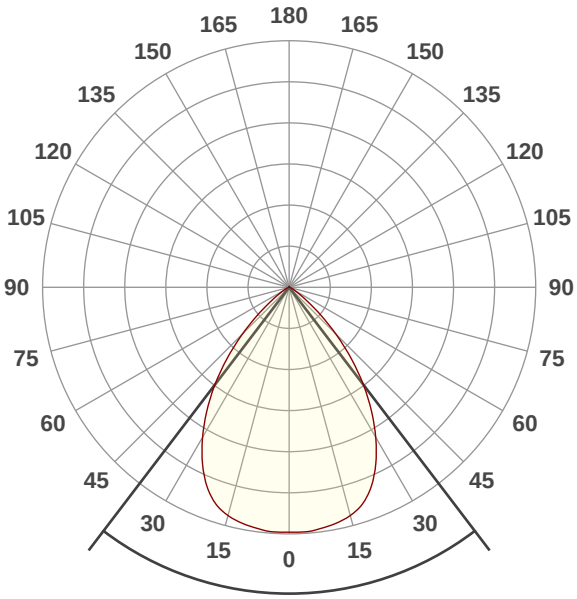
MEASURAMENT CONDITIONS:

Beam angle:
Wide Lens

Target:
6000K

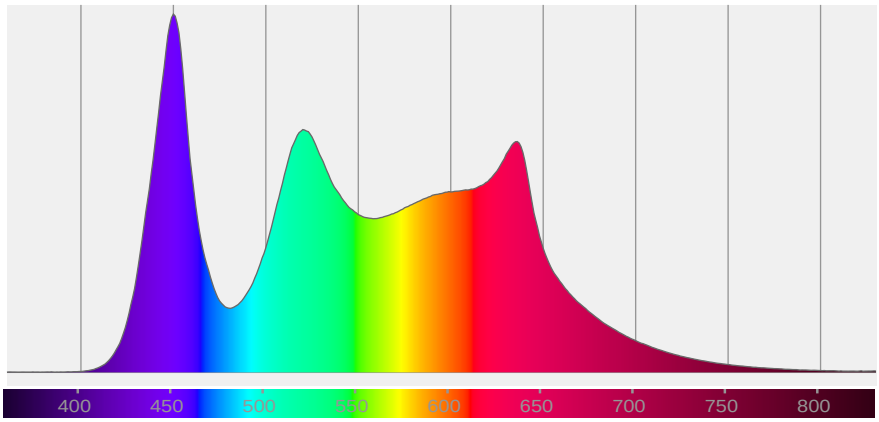
Operator:
Paolo Carvone

Date and time:
08/05/2020 11:08:46

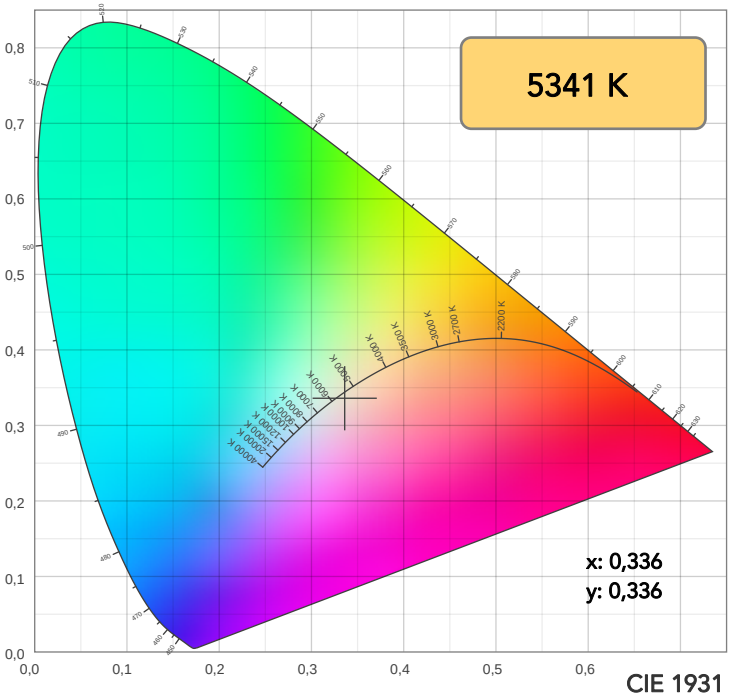


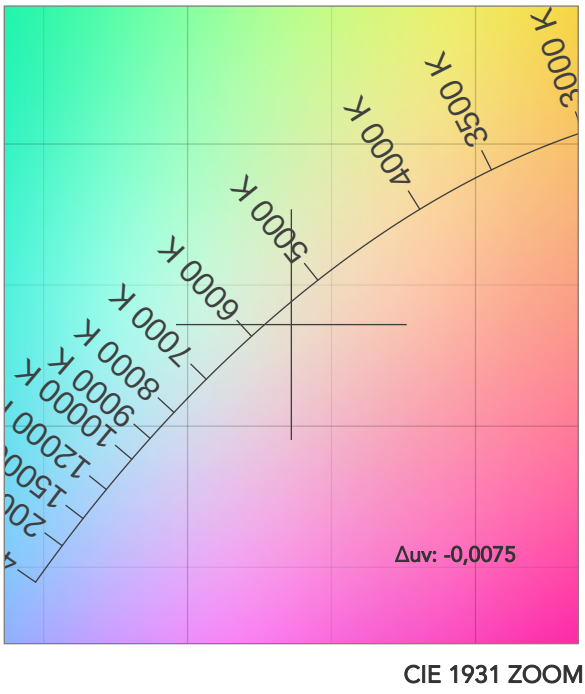
Beam angle 50%: 74,6°
Field angle 10%: 104,3°
Cut off angle 2.5%: 122,3°

Spectra

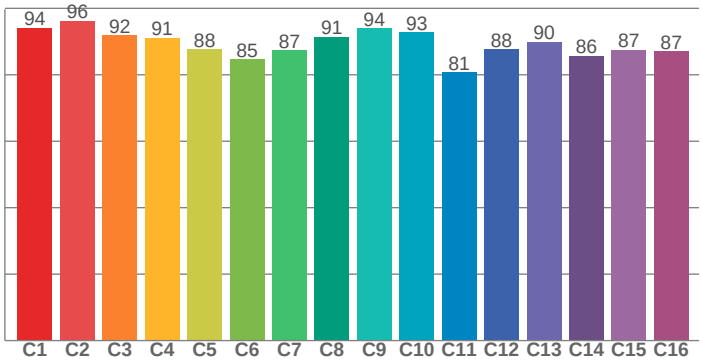


COLOR DETAILS

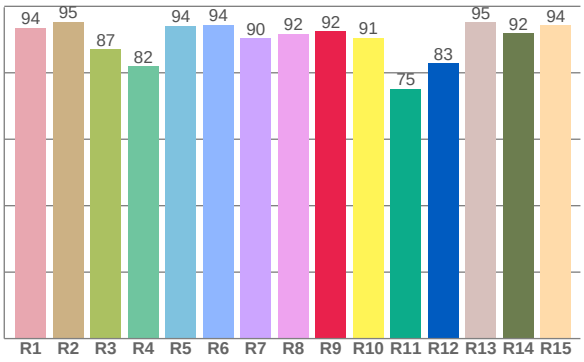




TM30: 89,3



CRI: 91,1 (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
93,6	95,4	87,0	81,9	94,1	94,4	90,5	91,7	92,4	90,5	75,2	82,9	95,3	91,8	94,3

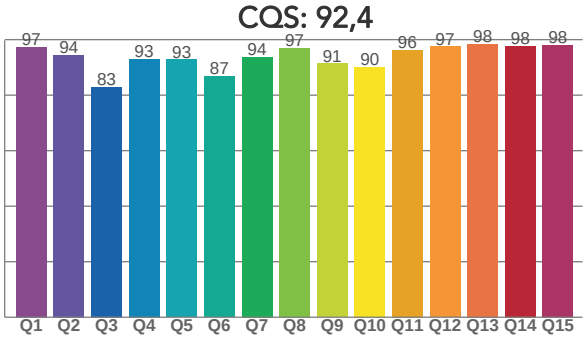
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	96,2	91,9	91,0	87,7	84,7	87,4	91,3	94,0	92,8	80,7	87,6	90,0	85,8	87,5	87,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	94,4	82,9	93,0	92,8	86,8	93,8	97,0	91,3	90,1	96,2	97,5	98,5	97,6	98,1

CQS: 92,4



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5341 K	91,1	92,4	89,3	107,1	92,4	86	0,336	0,336	-0,0075

TM30 DETAILS

PROLiGHTS

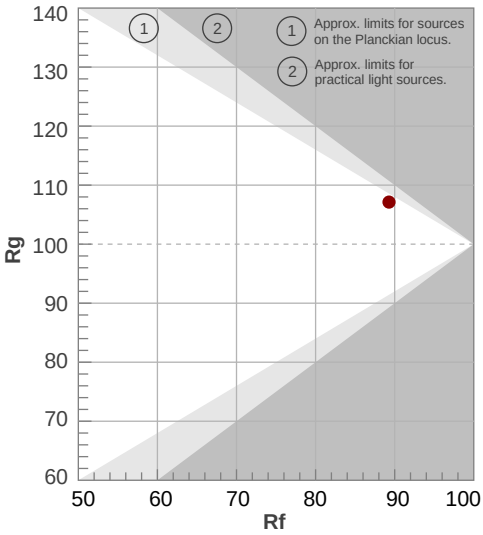
Rf 89,3

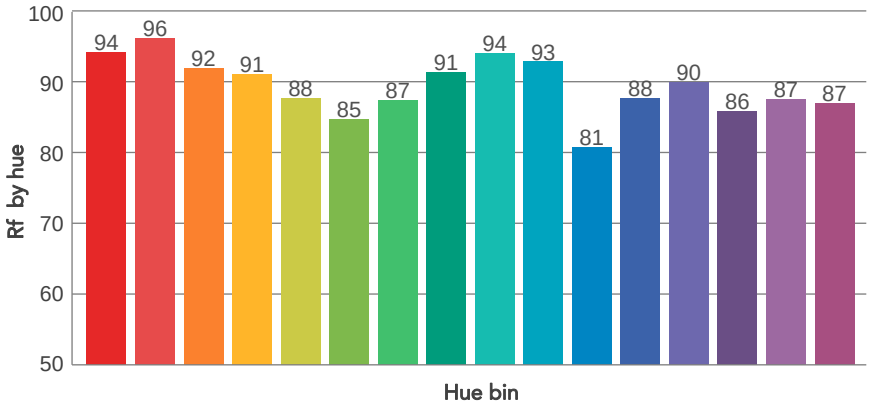
Fidelity index Rf

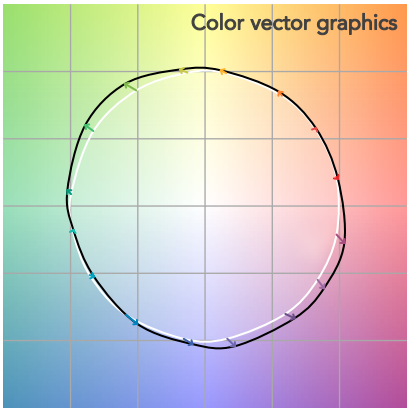
Rg 107,1

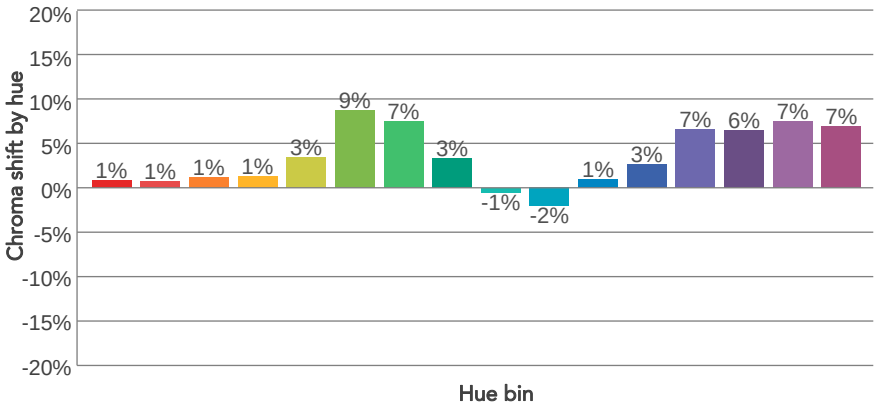
Gammut index

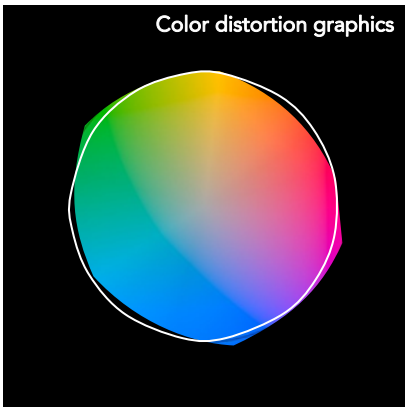
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	96	1%	0%
3	92	1%	4%
4	91	1%	4%
5	88	3%	5%
6	85	9%	4%
7	87	7%	0%
8	91	3%	-2%
9	94	-1%	-1%
10	93	-2%	3%
11	81	1%	11%
12	88	3%	7%
13	90	7%	5%
14	86	6%	4%
15	87	7%	-3%
16	87	7%	-5%

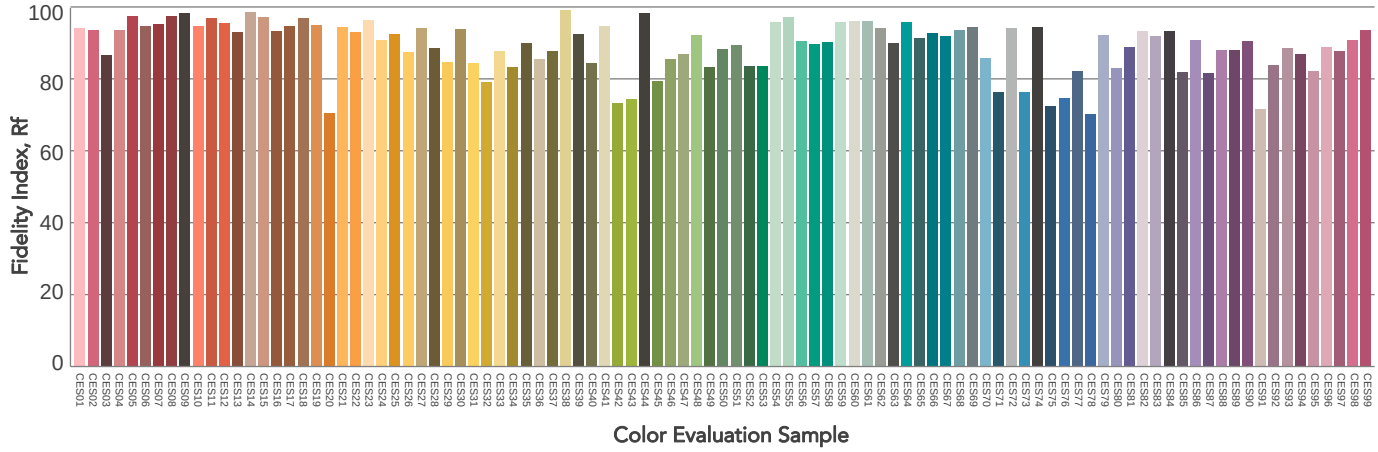












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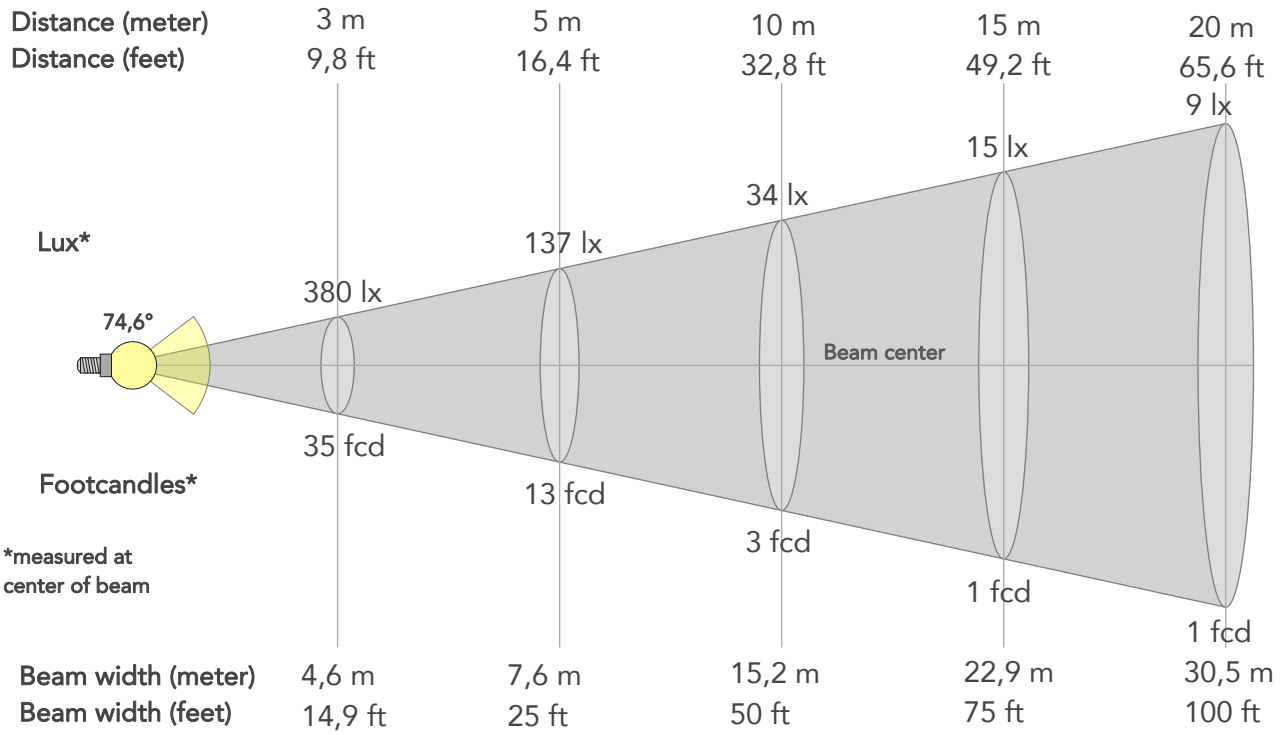
BEAM DETAILS

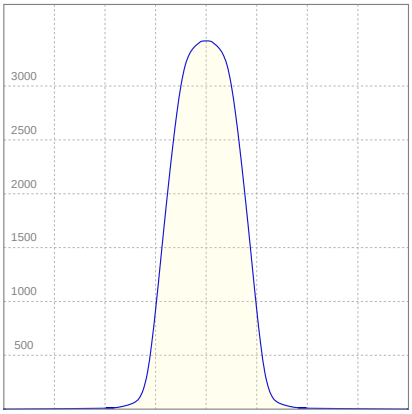
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
74,6°	104,3°	122,3°	97,2%	86,9%



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	3416lx	854lx	380lx	213lx	137lx	61lx	34lx	15lx	9lx	5lx	4lx	2lx	1lx
Footcand.	317fcd	79fcd	35fcd	20fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	3m	4,6m	6,1m	7,6m	11,4m	15,2m	22,9m	30,5m	38,1m	45,7m	61m	76,2m
Beam wid.	5ft	10,1ft	14,9ft	20ft	25ft	37,5ft	50ft	75ft	100ft	125ft	150ft	200ft	249,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,546A	111,6W	43lm/W

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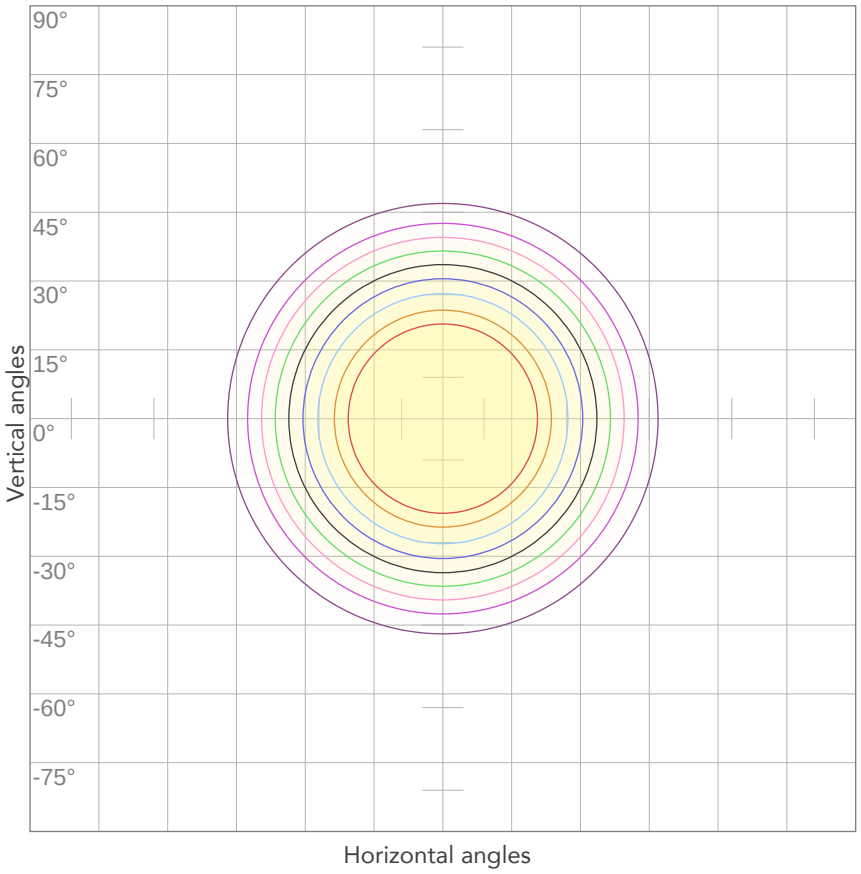
ISO DIAGRAMS

ISO CANDELA DIAGRAM



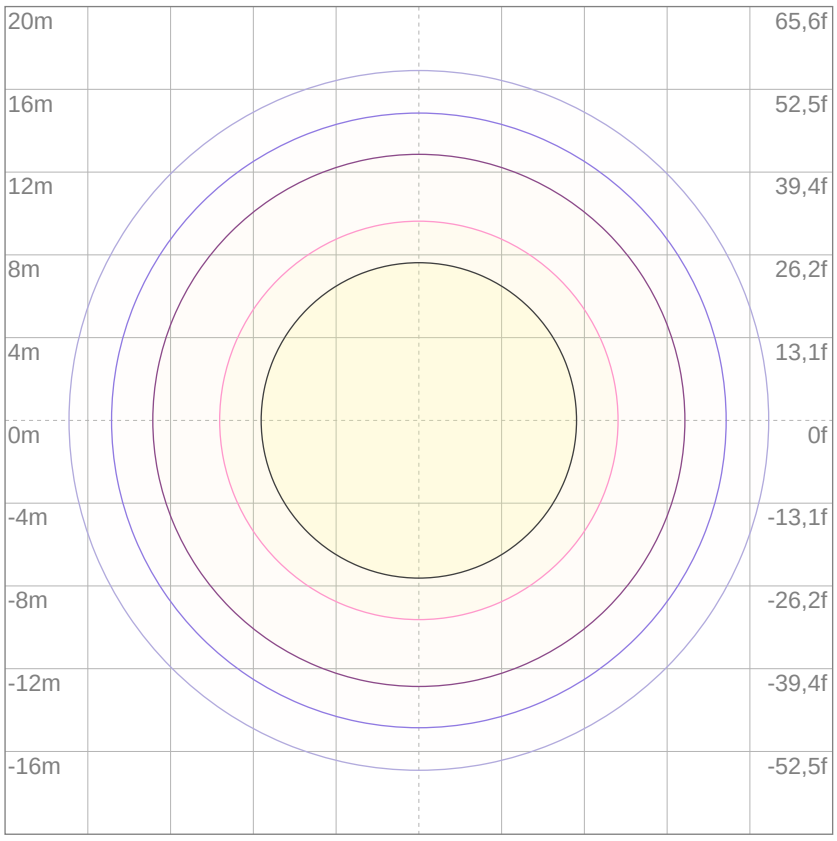
10%	342 cd
20%	683 cd
30%	1025 cd
40%	1366 cd
50%	1708 cd
60%	2050 cd
70%	2391 cd
80%	2733 cd

Conditions:

Number of c-planes: 2

Candela at center: 3416 cd

ISO LUX DIAGRAM



3%	1,02 lx
5%	1,71 lx
10%	3,42 lx
30%	10,2 lx
50%	17,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 34,2 lx

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