Photometric Test Report

ECLPARIPMFC

100W IP65 RGB+WW single source
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 25°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-7000 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.

Total lumen output:

3324 lm

Peak candela output:

44300 cd

PRODUCT NAME:

ECLPARIPMFC

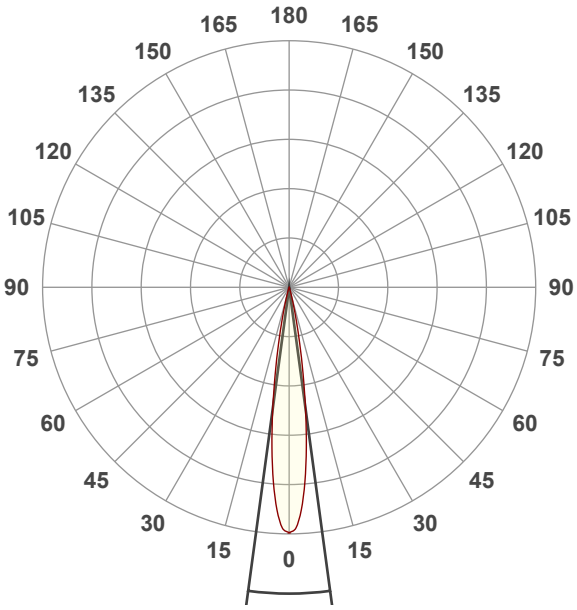
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
Full On

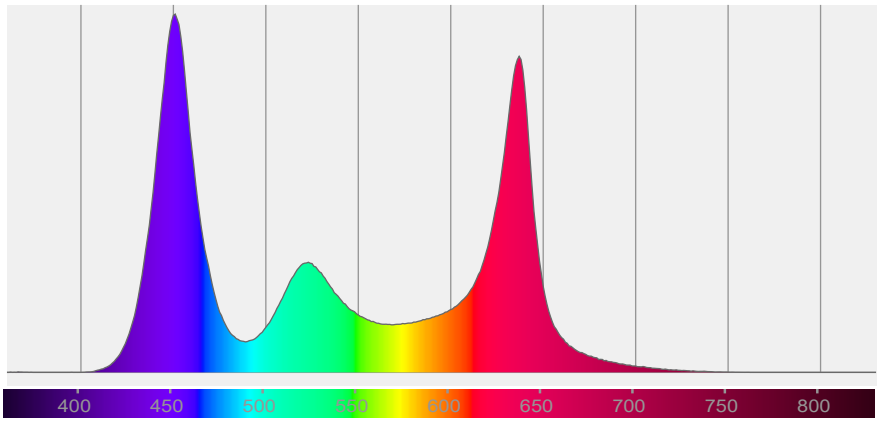
Operator:
Paolo Carvone

Date and time:
01/08/2023 16:57:25



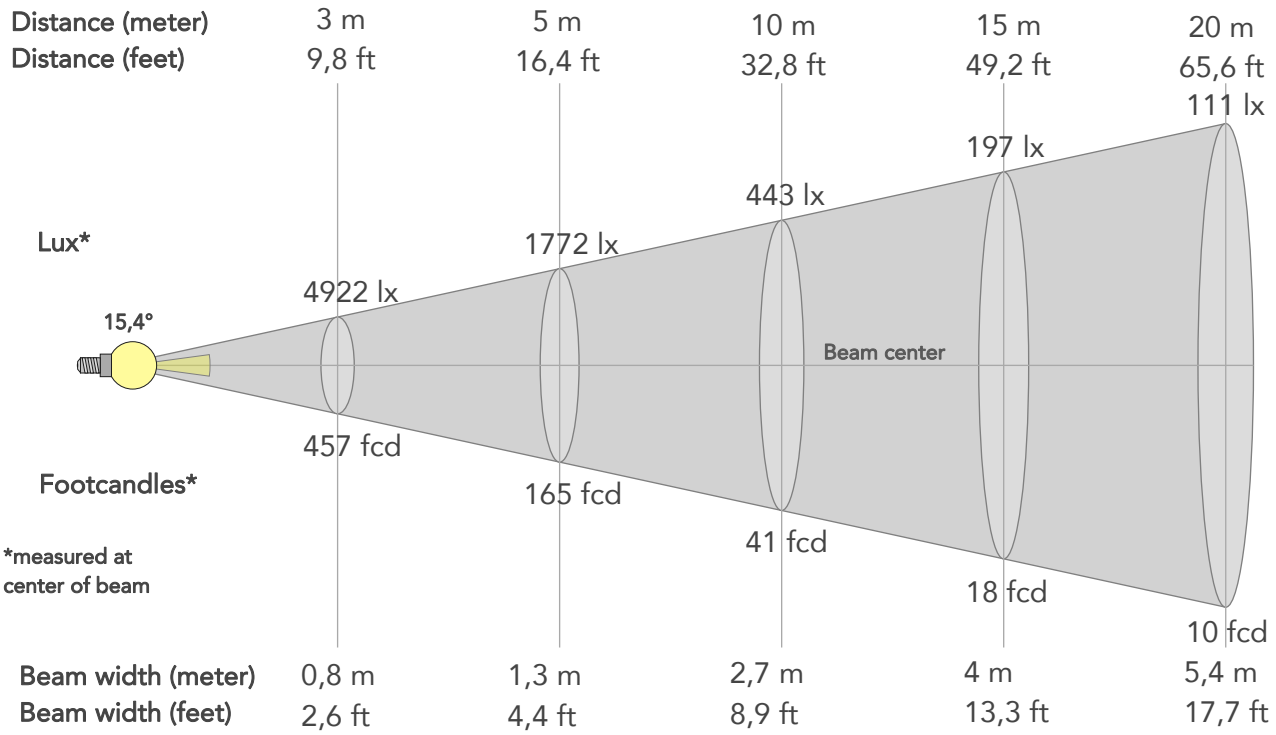
Beam angle 50%: 15,4°
Field angle 10%: 26,2°
Cut off angle 2.5%: 32,4°

Spectra



BEAM DETAILS

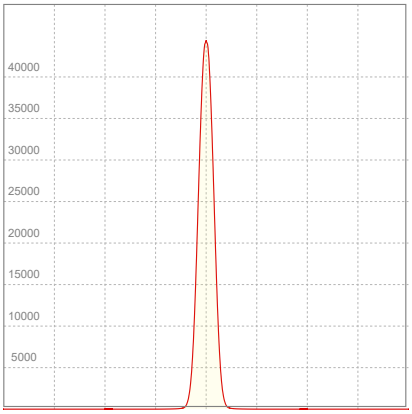
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	26,2°	32,4°	100,0%	100,0%



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	44300lx	11075lx	4922lx	2769lx	1772lx	788lx	443lx	197lx	111lx	71lx	49lx	28lx	18lx
Footcand.	4116fcd	1029fcd	457fcd	257fcd	165fcd	73fcd	41fcd	18fcd	10fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,4m	6,7m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,6ft	8,9ft	13,3ft	17,7ft	22,1ft	26,6ft	35,4ft	44,3ft

LINEAR DISTRIBUTION DIAGRAM



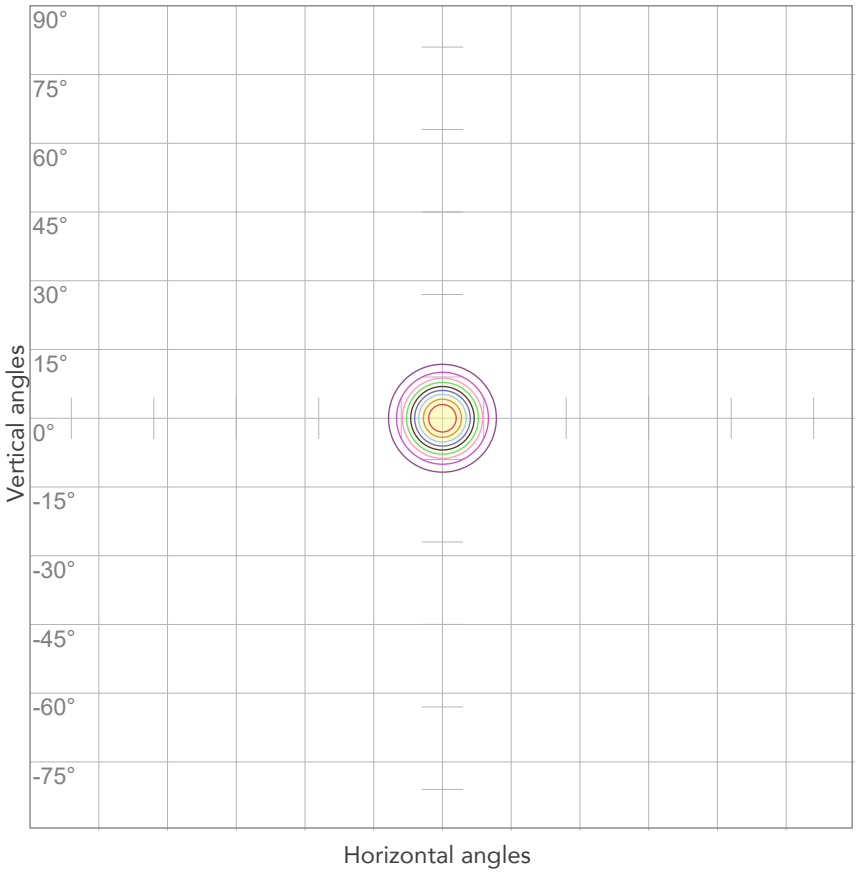
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,507A	107,5W	31lm/W

Power FC
0,94

ISO DIAGRAMS

ISO CANDELA DIAGRAM



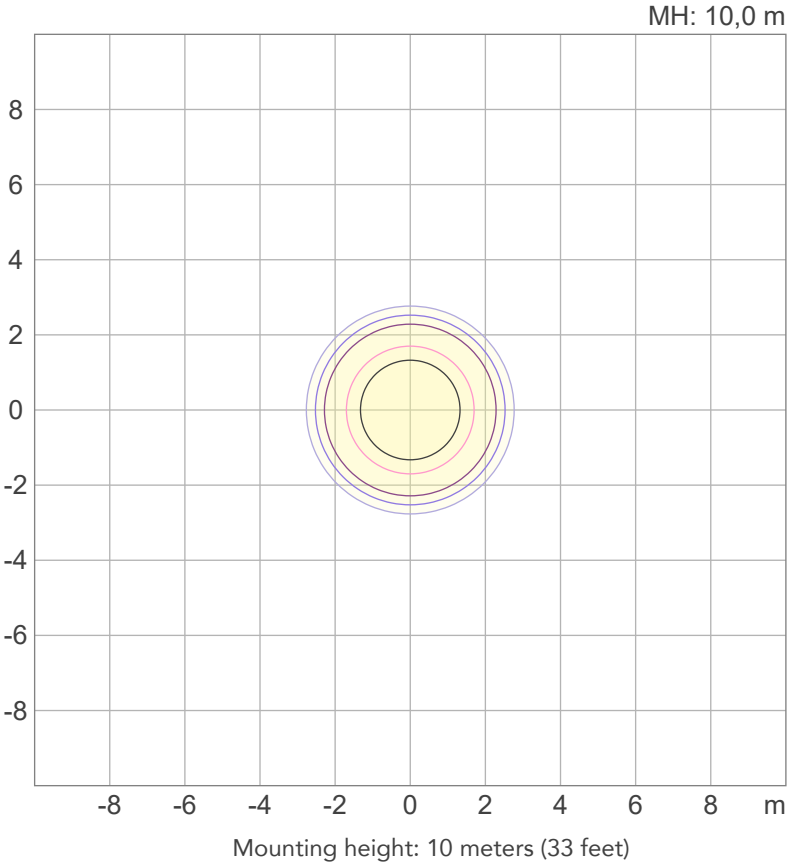
10%	4430 cd
20%	8860 cd
30%	13290 cd
40%	17720 cd
50%	22150 cd
60%	26580 cd
70%	31010 cd
80%	35440 cd

Conditions:

Number of c-planes: 2

Candela at center: 44300 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,3 lx
5%	22,1 lx
10%	44,3 lx
30%	133 lx
50%	221 lx

Conditions:

Number of c-planes: 2

Lux at center: 443 lx

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

Total lumen output:

910 lm

Peak candela output:

11973 cd

PRODUCT NAME:

ECLPARIPMFC

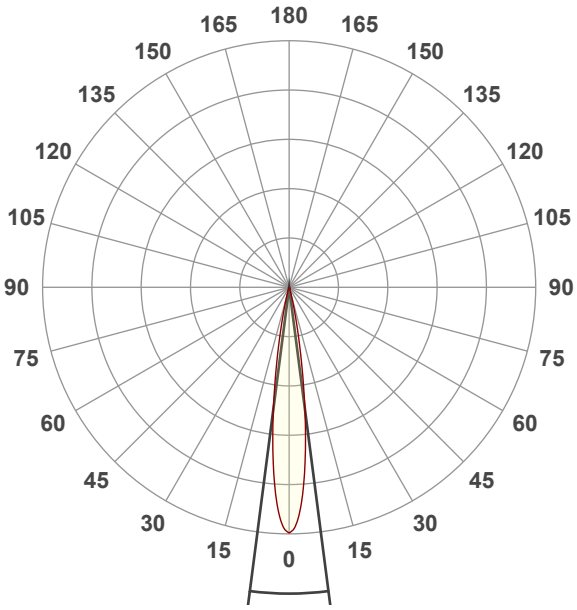
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
Red

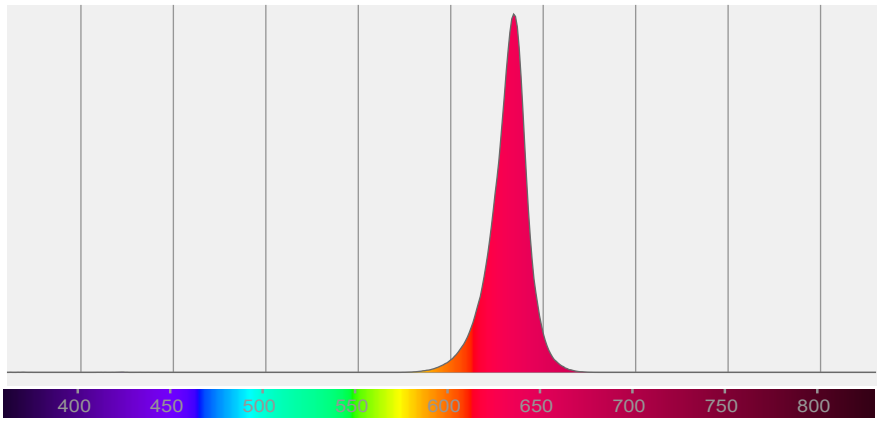
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:04:20



Beam angle 50%: 14,7°
Field angle 10%: 25,5°
Cut off angle 2.5%: 32,7°

Spectra



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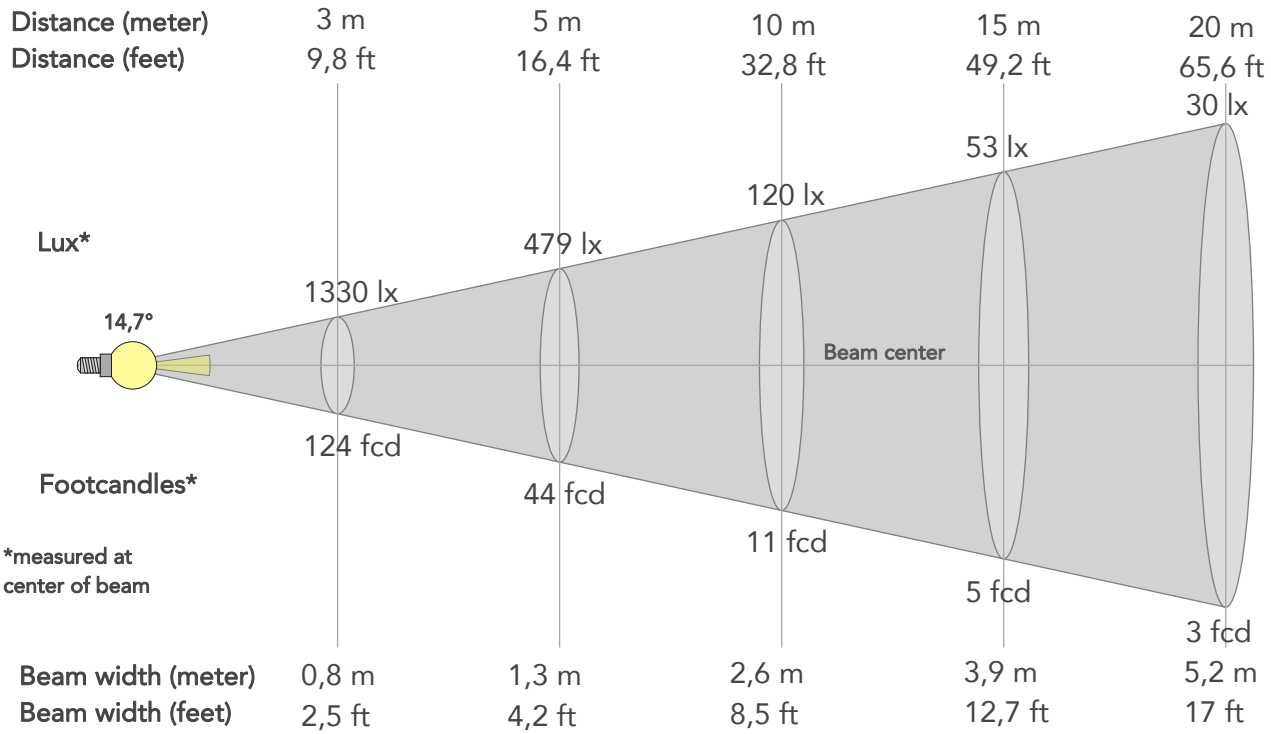
BEAM DETAILS

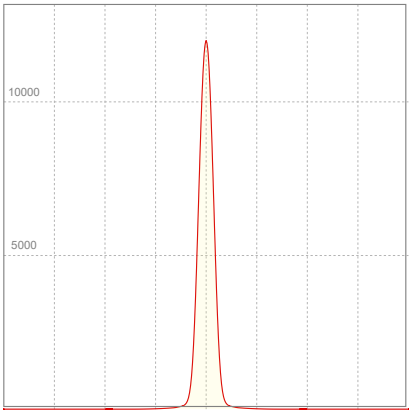
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14,7°	25,5°	32,7°	100,0%	99,3%



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	11973lx	2993lx	1330lx	748lx	479lx	213lx	120lx	53lx	30lx	19lx	13lx	7lx	5lx
Footcand.	1112fcd	278fcd	124fcd	70fcd	44fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1m	1,3m	1,9m	2,6m	3,9m	5,2m	6,5m	7,8m	10,4m	12,9m
Beam wid.	0,9ft	1,7ft	2,5ft	3,4ft	4,2ft	6,4ft	8,5ft	12,7ft	17ft	21,2ft	25,5ft	34ft	42,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,165A	30,2W	30lm/W

Power FC
0,81

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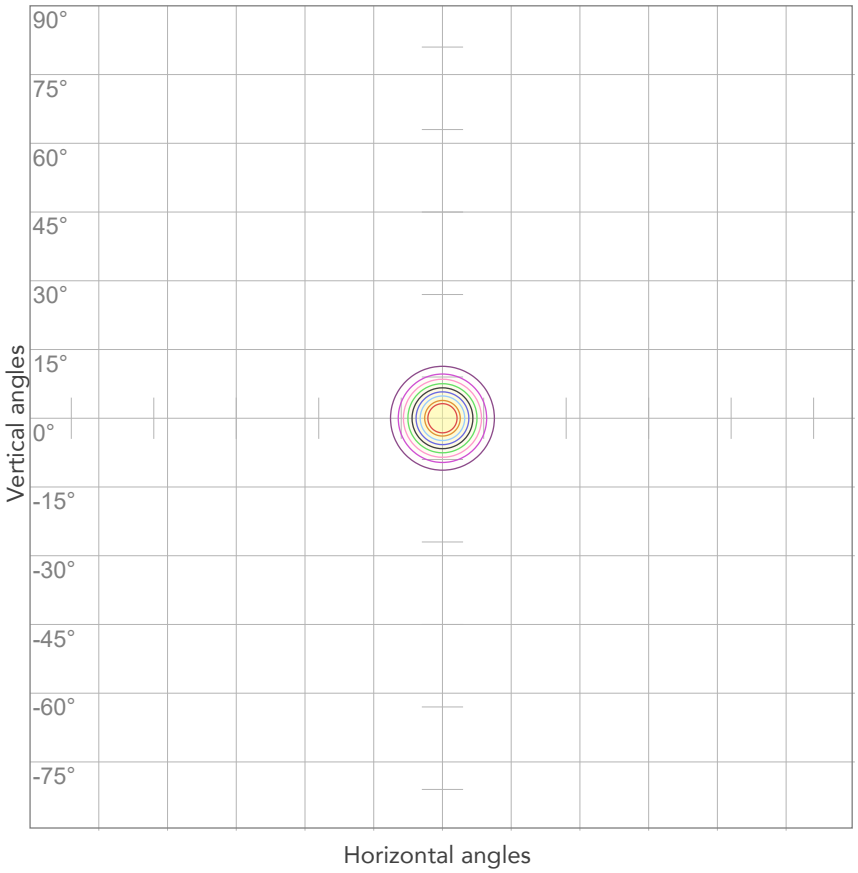
ISO DIAGRAMS

ISO CANDELA DIAGRAM



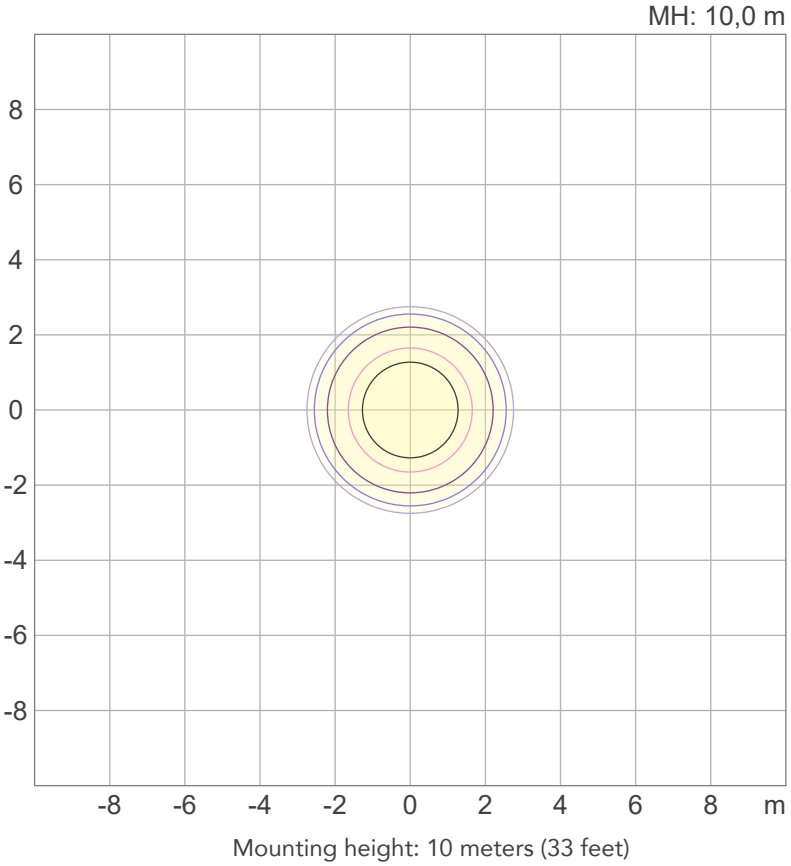
10%	1197 cd
20%	2395 cd
30%	3592 cd
40%	4789 cd
50%	5986 cd
60%	7184 cd
70%	8381 cd
80%	9578 cd

Conditions:

Number of c-planes: 2

Candela at center: 11973 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,59 lx
5%	5,99 lx
10%	12,0 lx
30%	35,9 lx
50%	59,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 120 lx

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

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Total lumen output:

1159 lm

Peak candela output:

14128 cd

PRODUCT NAME:

ECLPARIPMFC

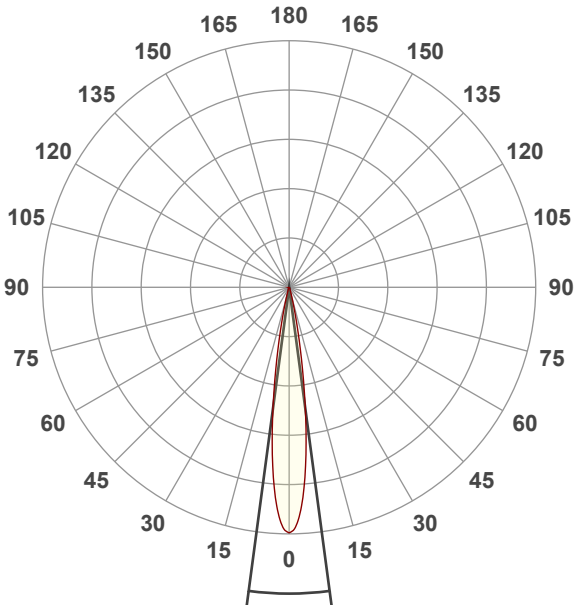
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
Green

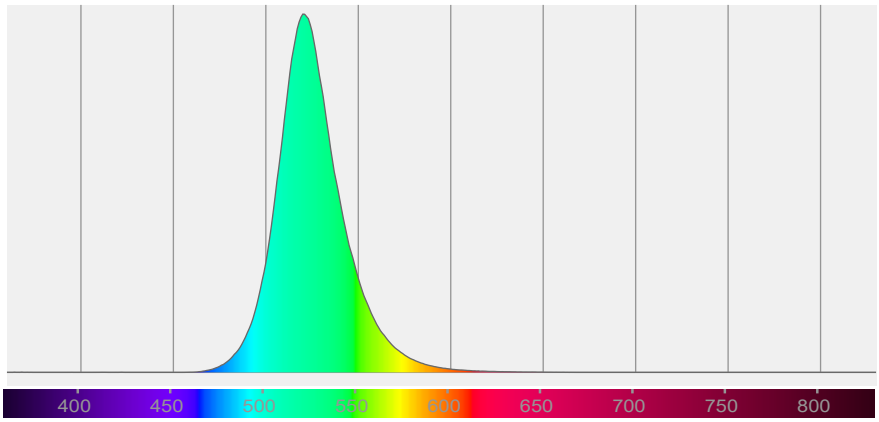
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:12:43



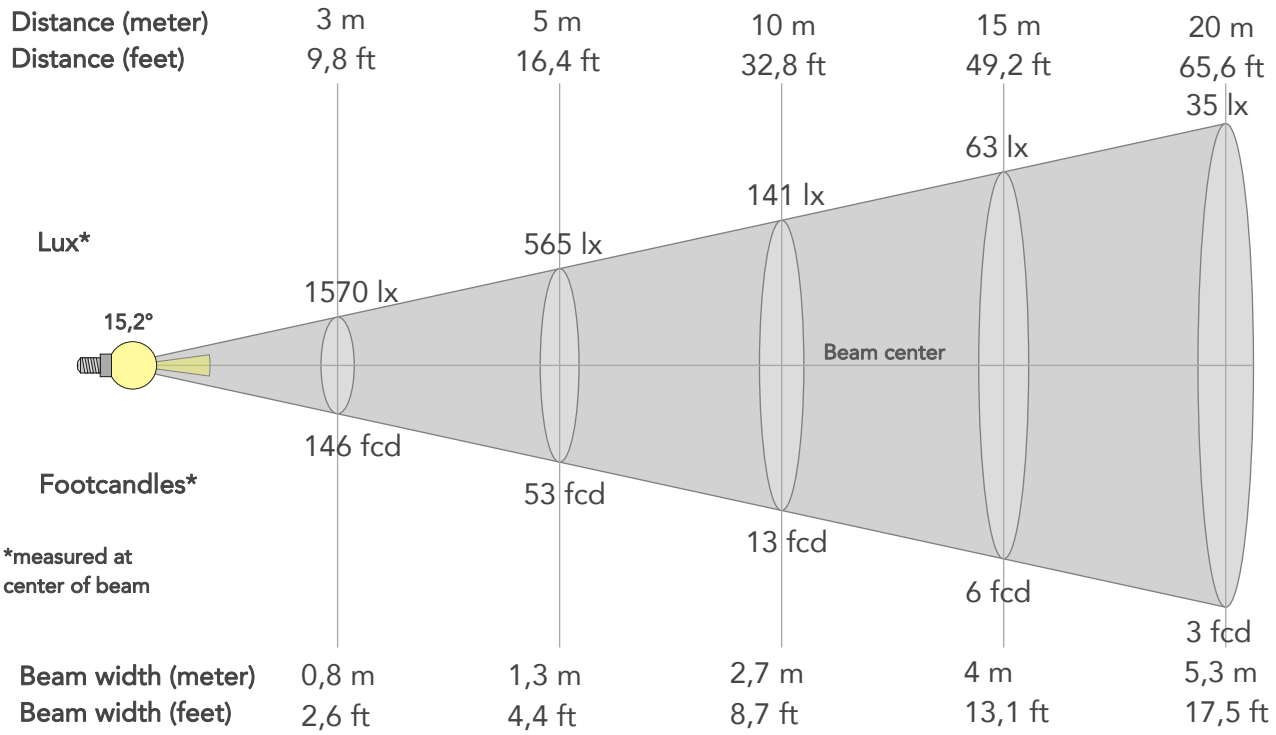
Beam angle 50%: 15,2°
Field angle 10%: 26°
Cut off angle 2.5%: 33,9°

Spectra



BEAM DETAILS

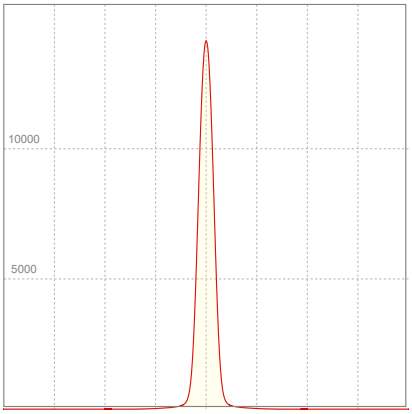
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,2°	26°	33,9°	99,9%	98,6%



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	14128lx	3532lx	1570lx	883lx	565lx	251lx	141lx	63lx	35lx	23lx	16lx	9lx	6lx
Footcand.	1313fcd	328fcd	146fcd	82fcd	53fcd	23fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,7m	8m	10,7m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,6ft	8,7ft	13,1ft	17,5ft	21,9ft	26,2ft	35ft	43,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,159A	28,9W	40lm/W

Power FC
0,8

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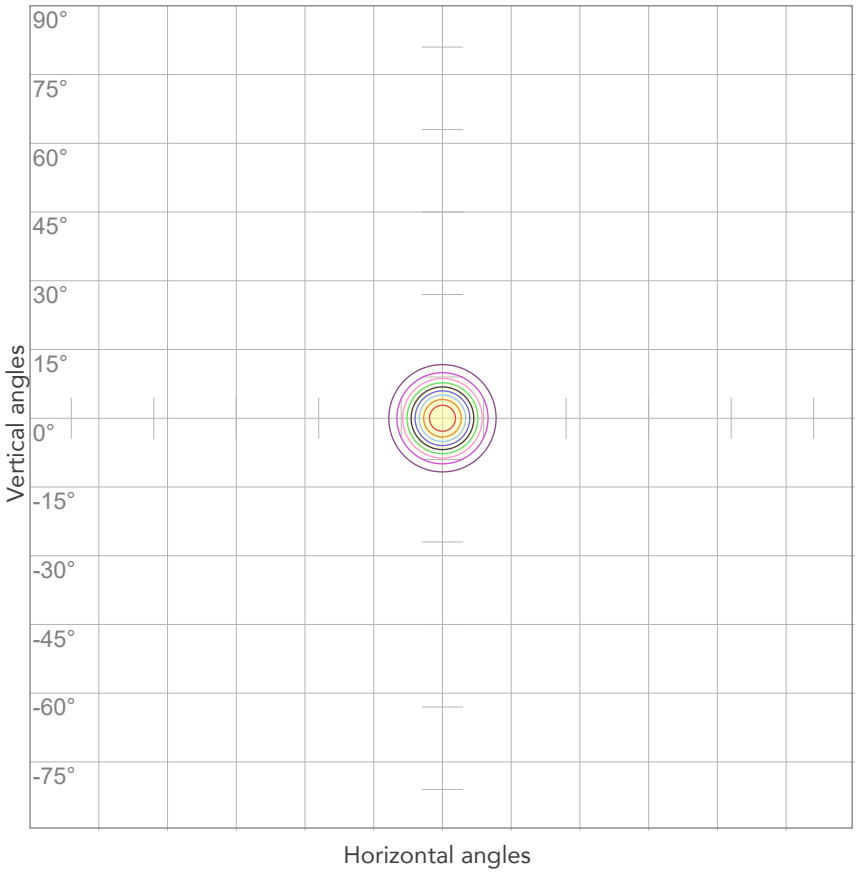
ISO DIAGRAMS

ISO CANDELA DIAGRAM



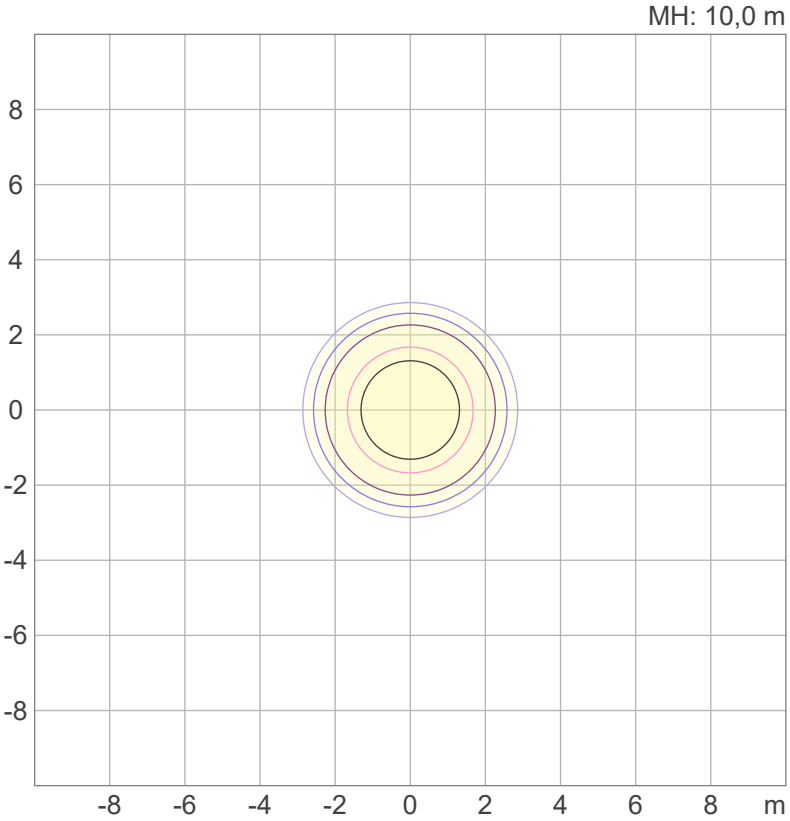
10%	1413 cd
20%	2826 cd
30%	4238 cd
40%	5651 cd
50%	7064 cd
60%	8477 cd
70%	9889 cd
80%	11302 cd

Conditions:

Number of c-planes: 2

Candela at center: 14128 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	4,24 lx
5%	7,06 lx
10%	14,1 lx
30%	42,4 lx
50%	70,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 141 lx

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

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Total lumen output:

242 lm

Peak candela output:

2683 cd

PRODUCT NAME:

ECLPARIPMFC

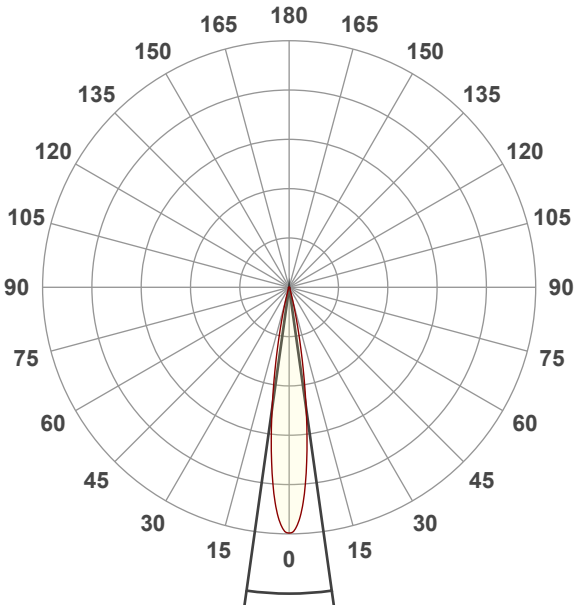
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
Blue

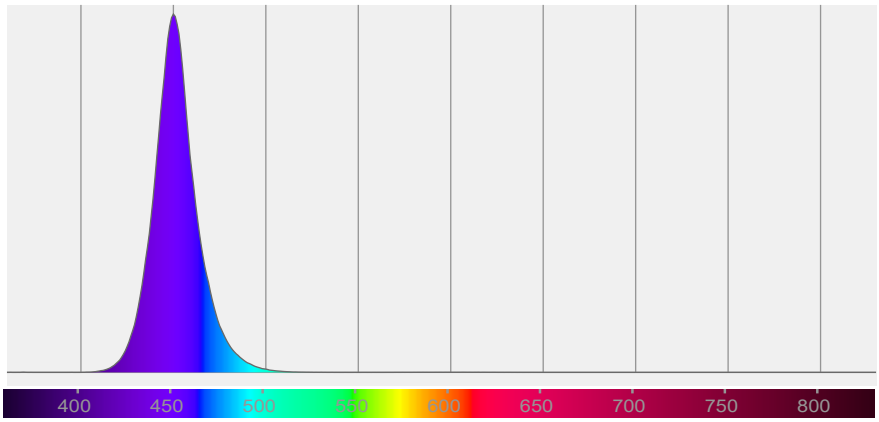
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:14:07



Beam angle 50%: 16°
Field angle 10%: 27,2°
Cut off angle 2.5%: 35,1°

Spectra



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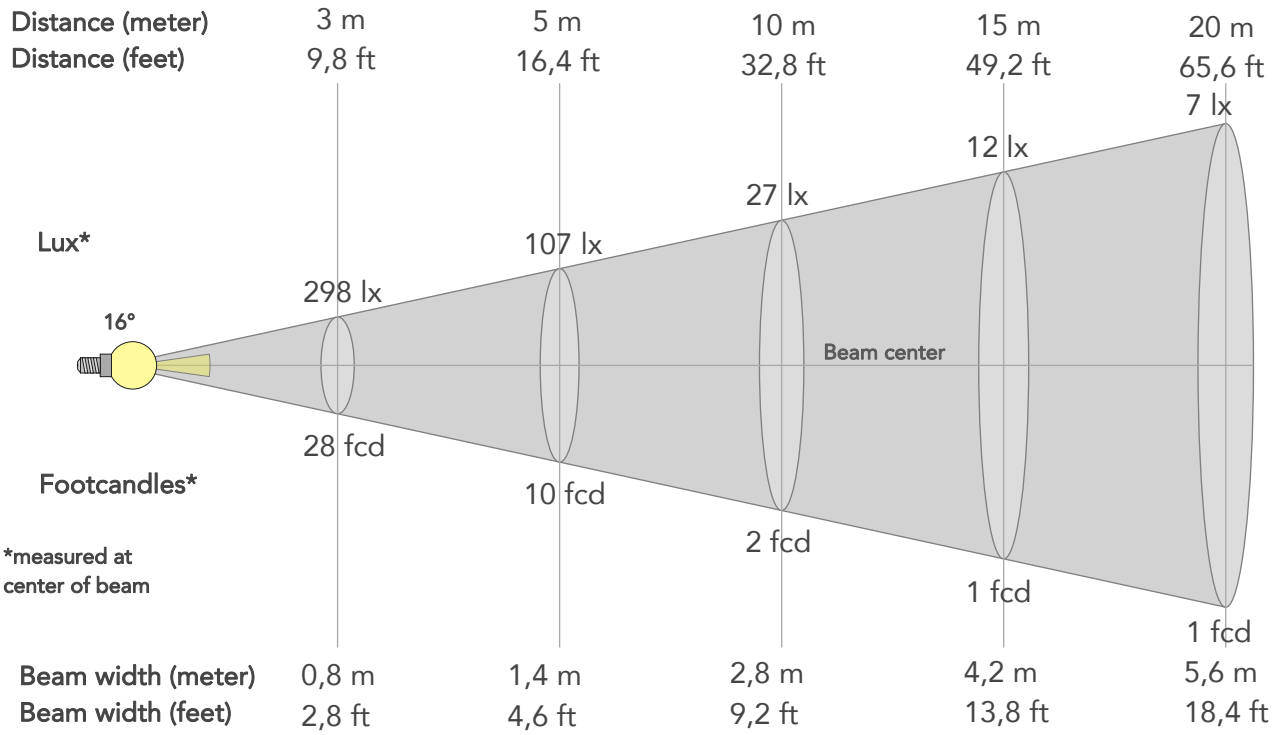
BEAM DETAILS

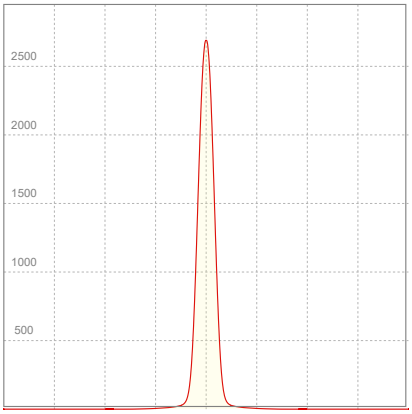
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	27,2°	35,1°	99,8%	98,3%



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	2683lx	671lx	298lx	168lx	107lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	249fcd	62fcd	28fcd	16fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,4ft	23ft	27,6ft	36,9ft	46,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,163A	29,7W	8lm/W

Power FC
0,81

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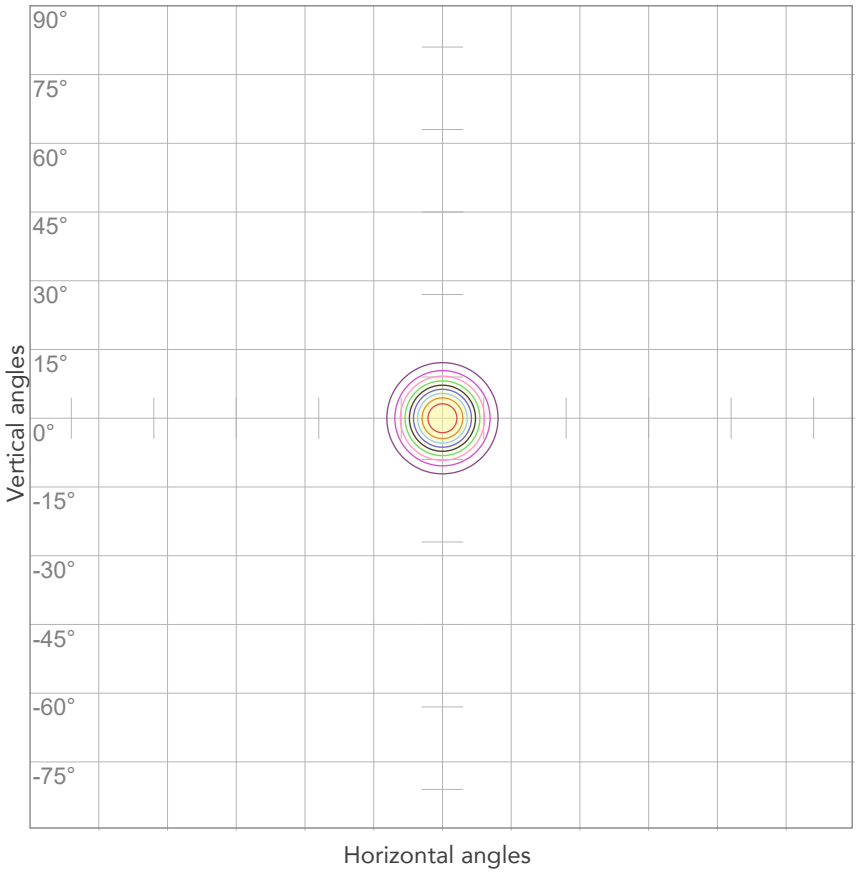
ISO DIAGRAMS

ISO CANDELA DIAGRAM



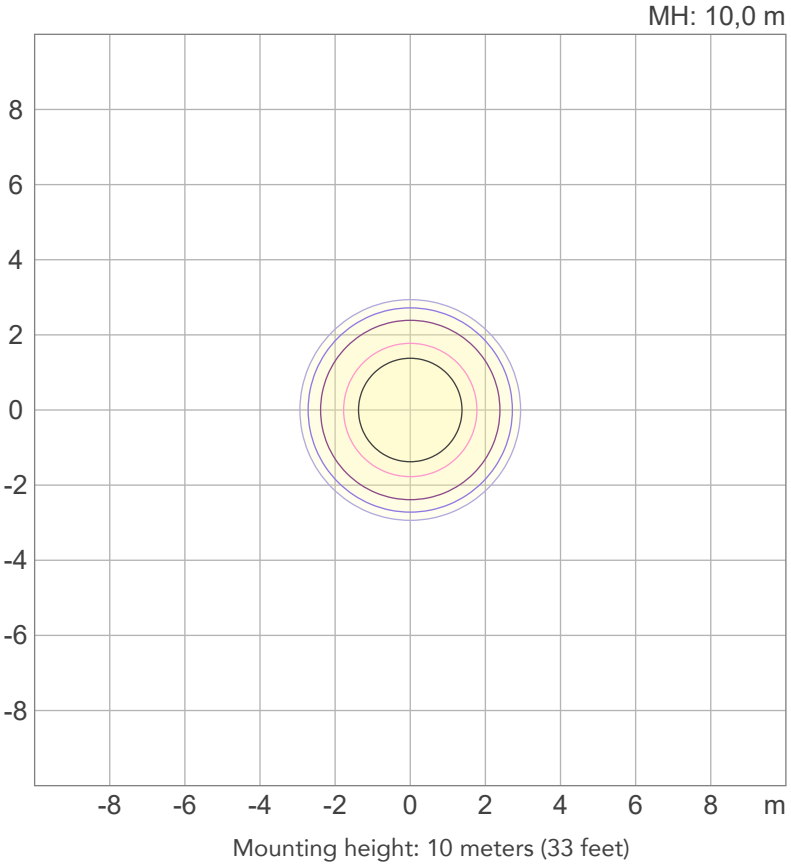
10%	268 cd
20%	537 cd
30%	805 cd
40%	1073 cd
50%	1342 cd
60%	1610 cd
70%	1878 cd
80%	2146 cd

Conditions:

Number of c-planes: 2

Candela at center: 2683 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,805 lx
5%	1,34 lx
10%	2,68 lx
30%	8,05 lx
50%	13,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 26,8 lx

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

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Total lumen output:

1954 lm

Peak candela output:

22513 cd

PRODUCT NAME:

ECLPARIPMFC

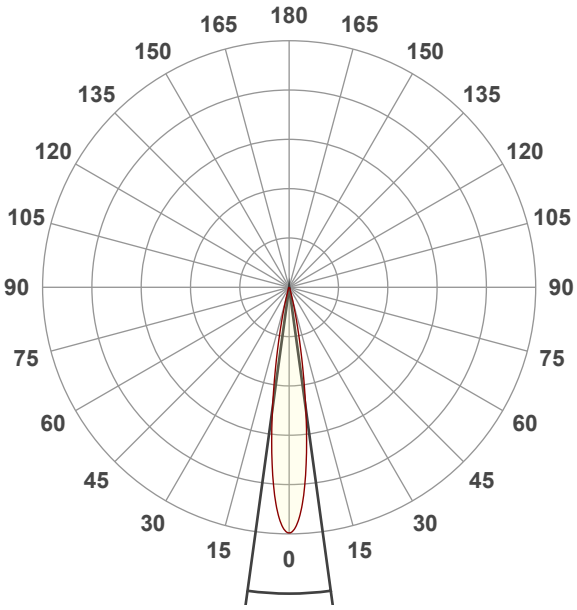
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
White

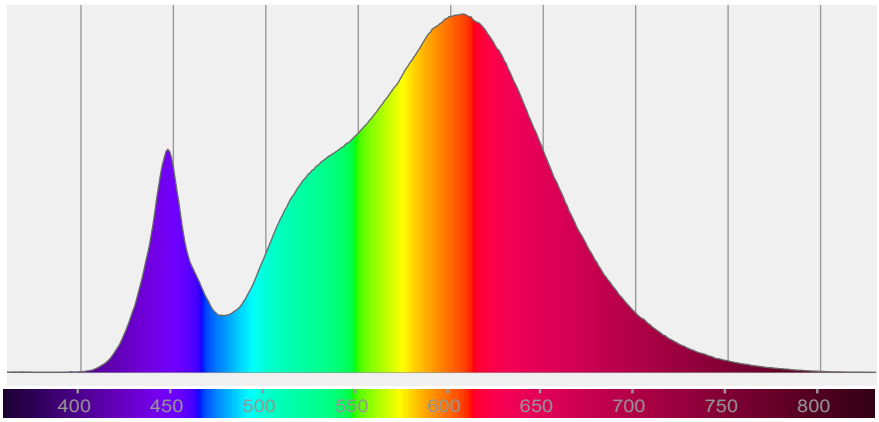
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:15:47



Beam angle 50%: 15,6°
Field angle 10%: 26,8°
Cut off angle 2.5%: 34,9°

Spectra



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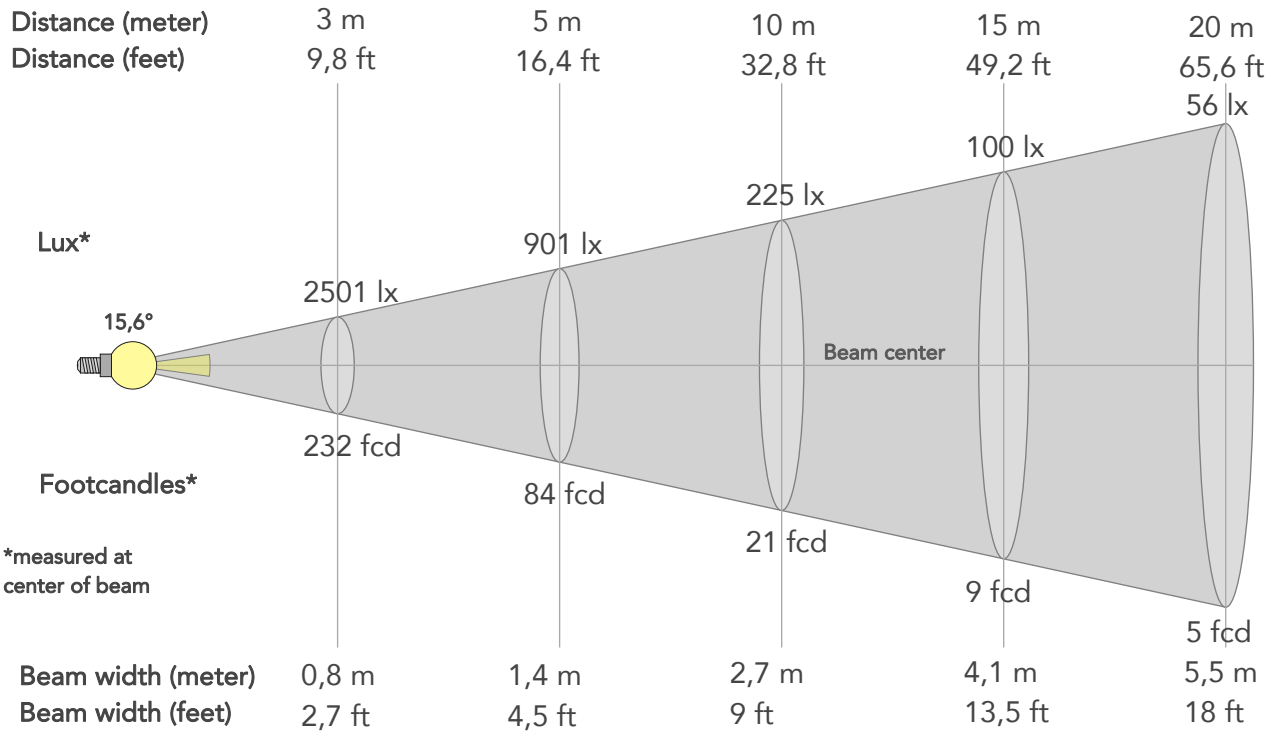
BEAM DETAILS

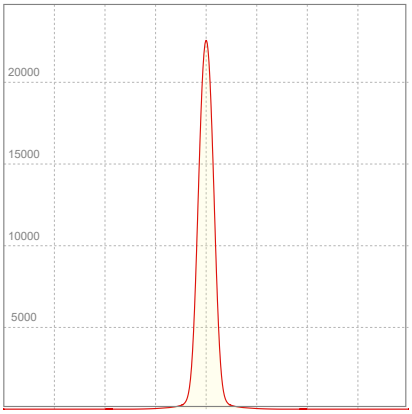
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,6°	26,8°	34,9°	99,9%	98,8%



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	22513lx	5628lx	2501lx	1407lx	901lx	400lx	225lx	100lx	56lx	36lx	25lx	14lx	9lx
Footcand.	2092fcd	523fcd	232fcd	131fcd	84fcd	37fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2,1m	2,7m	4,1m	5,5m	6,9m	8,2m	11m	13,7m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	9ft	13,5ft	18ft	22,5ft	27ft	36ft	45ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,211A	40,9W	48lm/W

Power FC
0,86

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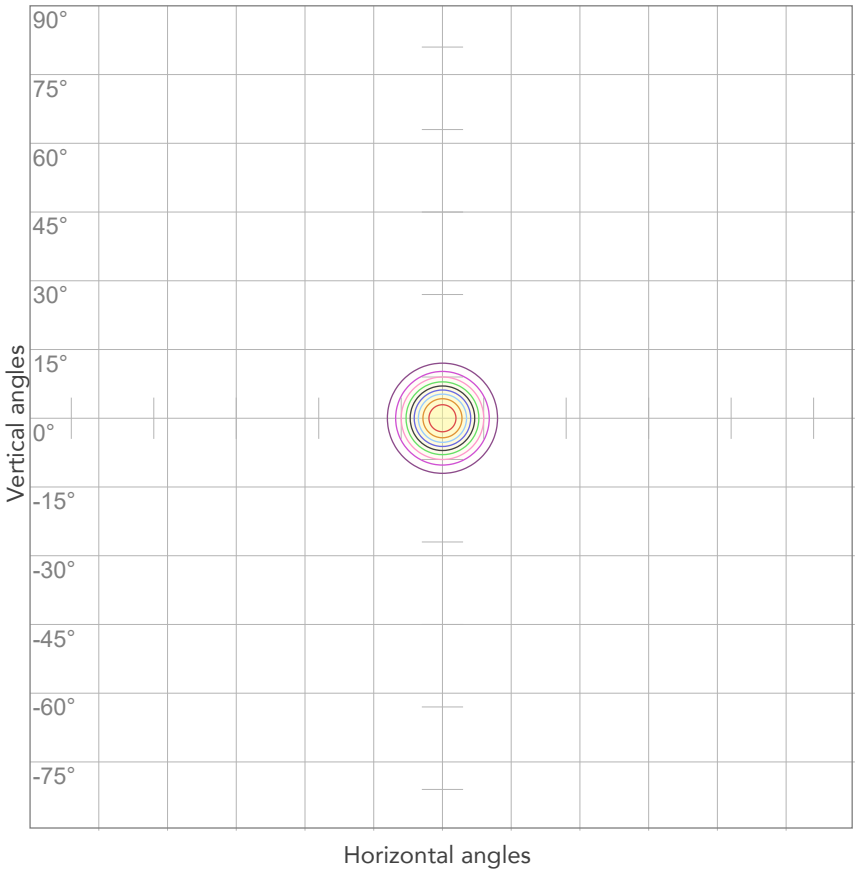
ISO DIAGRAMS

ISO CANDELA DIAGRAM



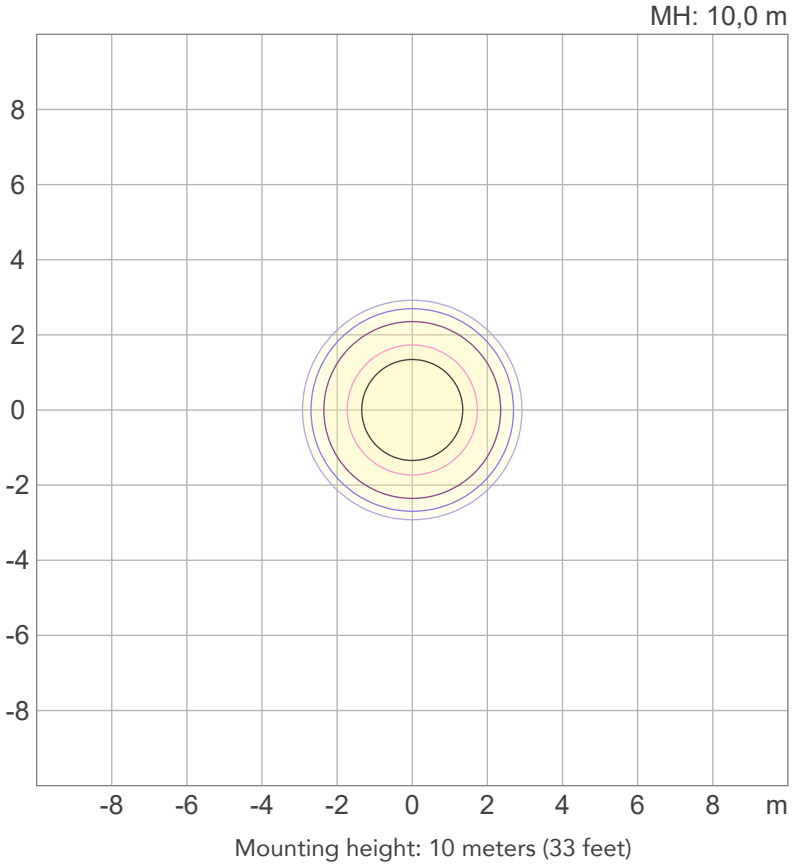
10%	2251 cd
20%	4503 cd
30%	6754 cd
40%	9005 cd
50%	11257 cd
60%	13508 cd
70%	15759 cd
80%	18011 cd

Conditions:

Number of c-planes: 2

Candela at center: 22513 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	6,75 lx
5%	11,3 lx
10%	22,5 lx
30%	67,5 lx
50%	113 lx

Conditions:

Number of c-planes: 2

Lux at center: 225 lx

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

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Total lumen output:

2200 lm

Peak candela output:

28461 cd

Light quality:

CRI: 90,5

Color temperature:

2764 K

PRODUCT NAME:

ECLPARIPMFC

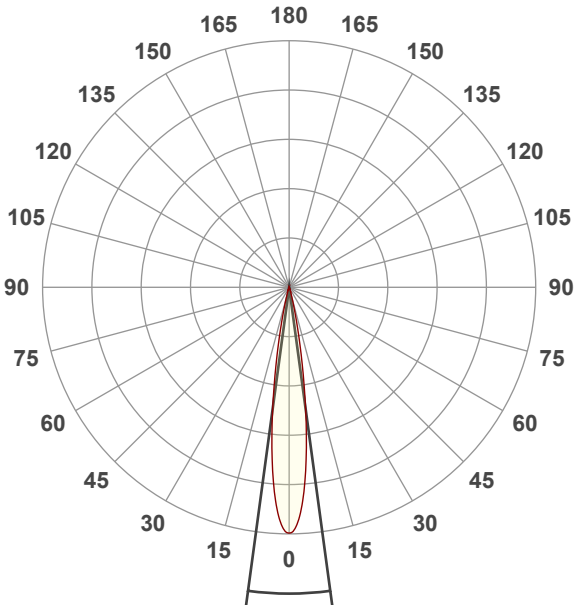
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
2800K

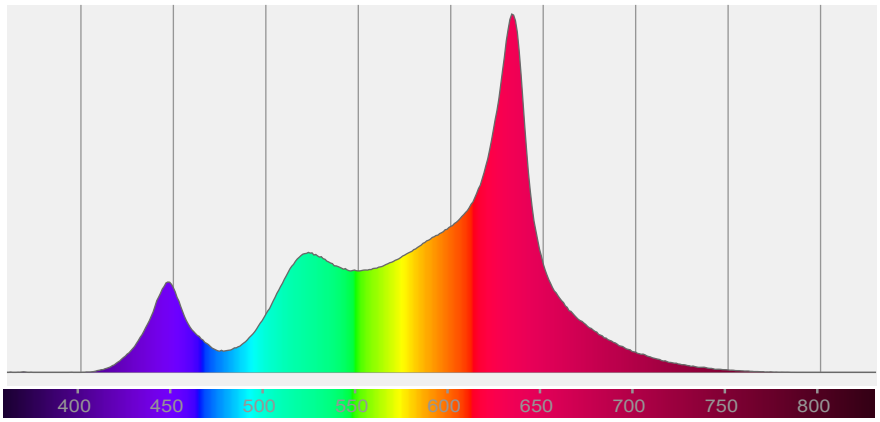
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:23:17



Beam angle 50%: 15,4°
Field angle 10%: 26,4°
Cut off angle 2.5%: 33,1°

Spectra



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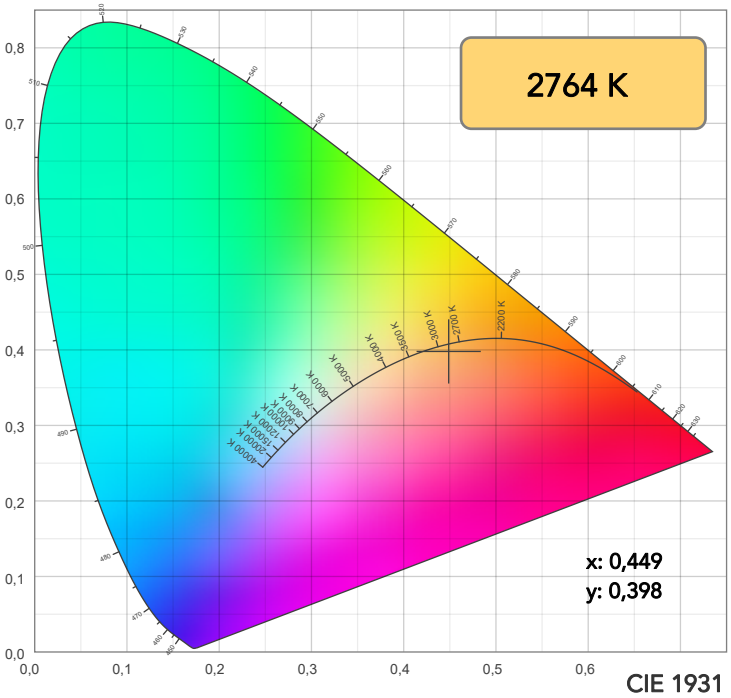
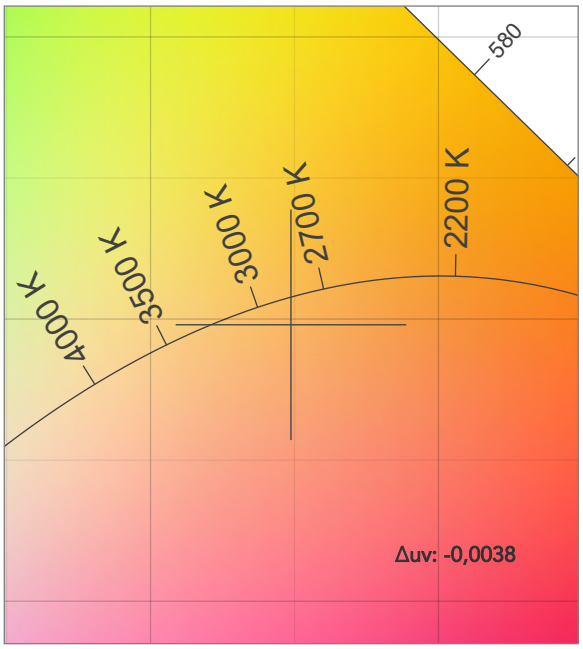
COLOR DETAILS

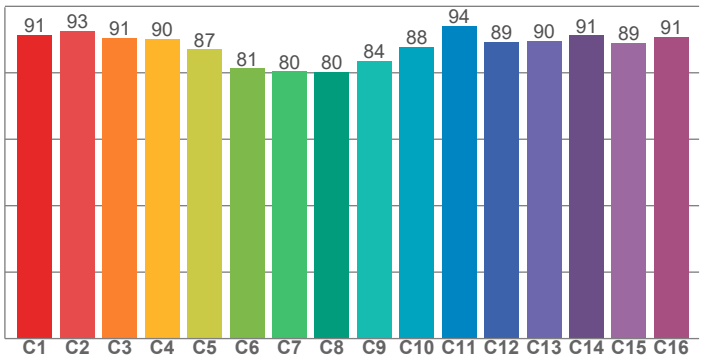


CIE 1931

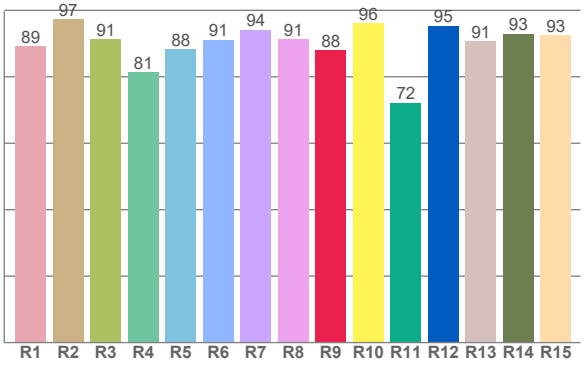


CIE 1931 ZOOM

TM30: 88,8



CRI: 90,5 (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
89,1	97,3	91,2	81,3	88,3	91,2	94,2	91,2	88,0	96,2	72,2	95,3	90,8	92,9	92,5

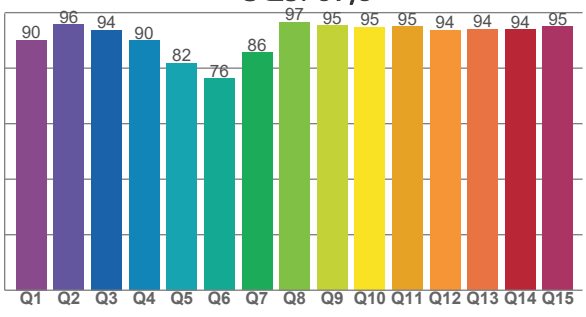
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,5	92,6	90,5	90,1	87,1	81,4	80,5	80,2	83,6	87,9	94,2	89,4	89,6	91,3	89,0	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,1	95,7	93,8	90,0	81,9	76,3	85,7	96,6	95,4	94,8	95,0	93,8	94,0	93,9	94,9

CQS: 89,3



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
2764 K	90,5	88,0	88,8	109,9	89,3	72	0,449	0,398	-0,0038

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TM30 DETAILS

PROLiGHTS

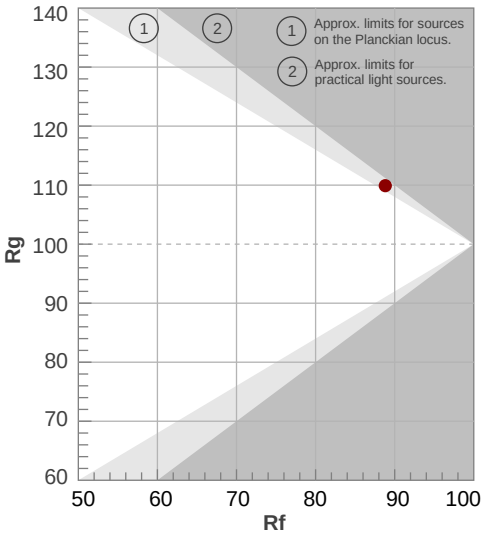
Rf 88,8

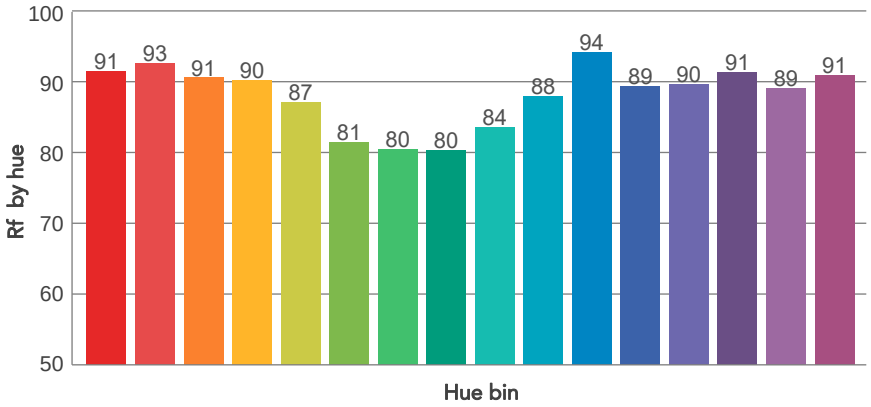
Fidelity index Rf

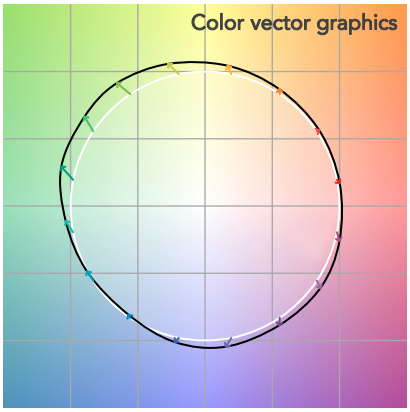
Rg 109,9

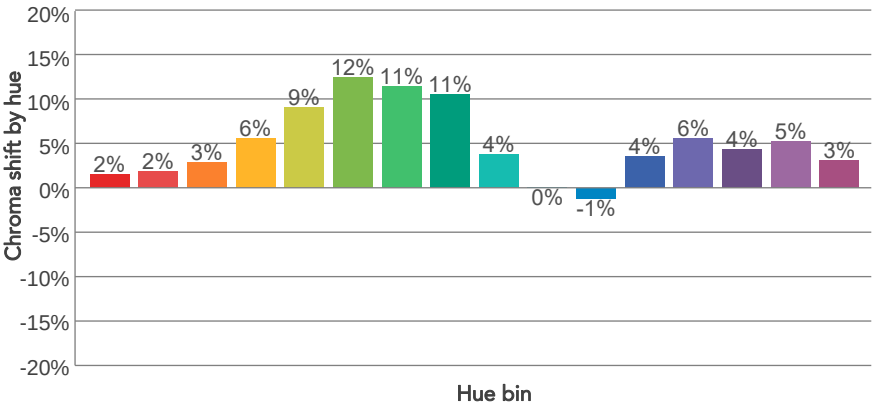
Gammut index

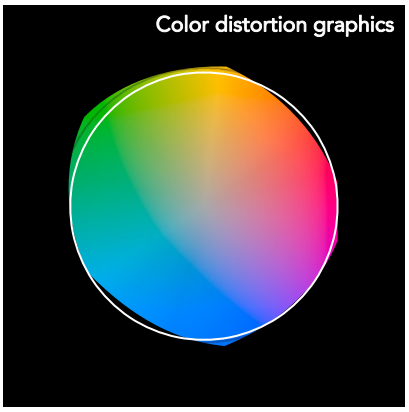
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	2%	-3%
2	93	2%	0%
3	91	3%	2%
4	90	6%	4%
5	87	9%	6%
6	81	12%	4%
7	80	11%	-5%
8	80	11%	-8%
9	84	4%	-9%
10	88	0%	-8%
11	94	-1%	-3%
12	89	4%	-2%
13	90	6%	-5%
14	91	4%	-3%
15	89	5%	-3%
16	91	3%	-6%

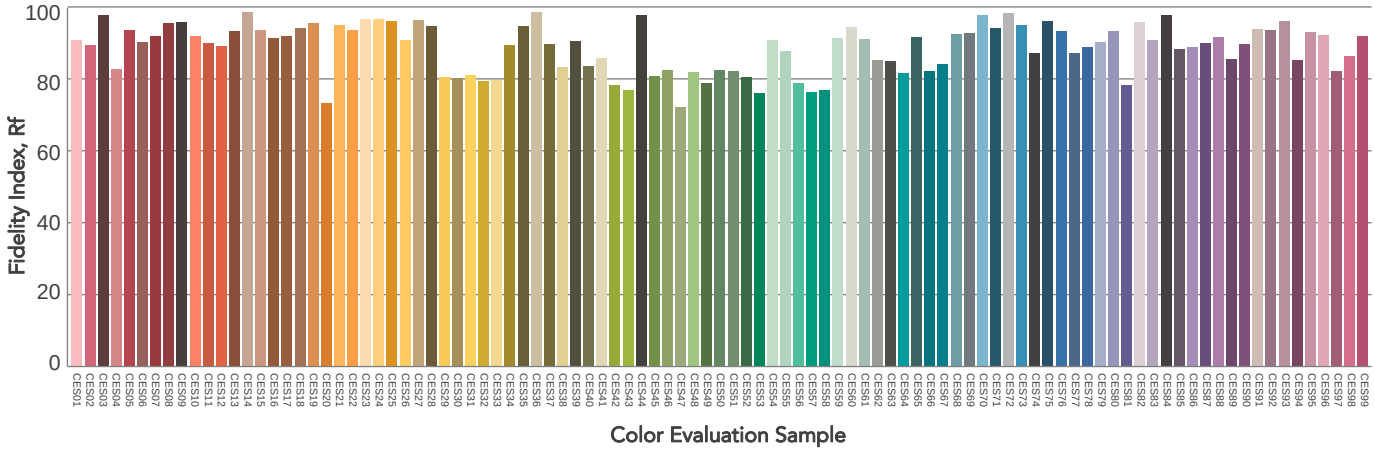












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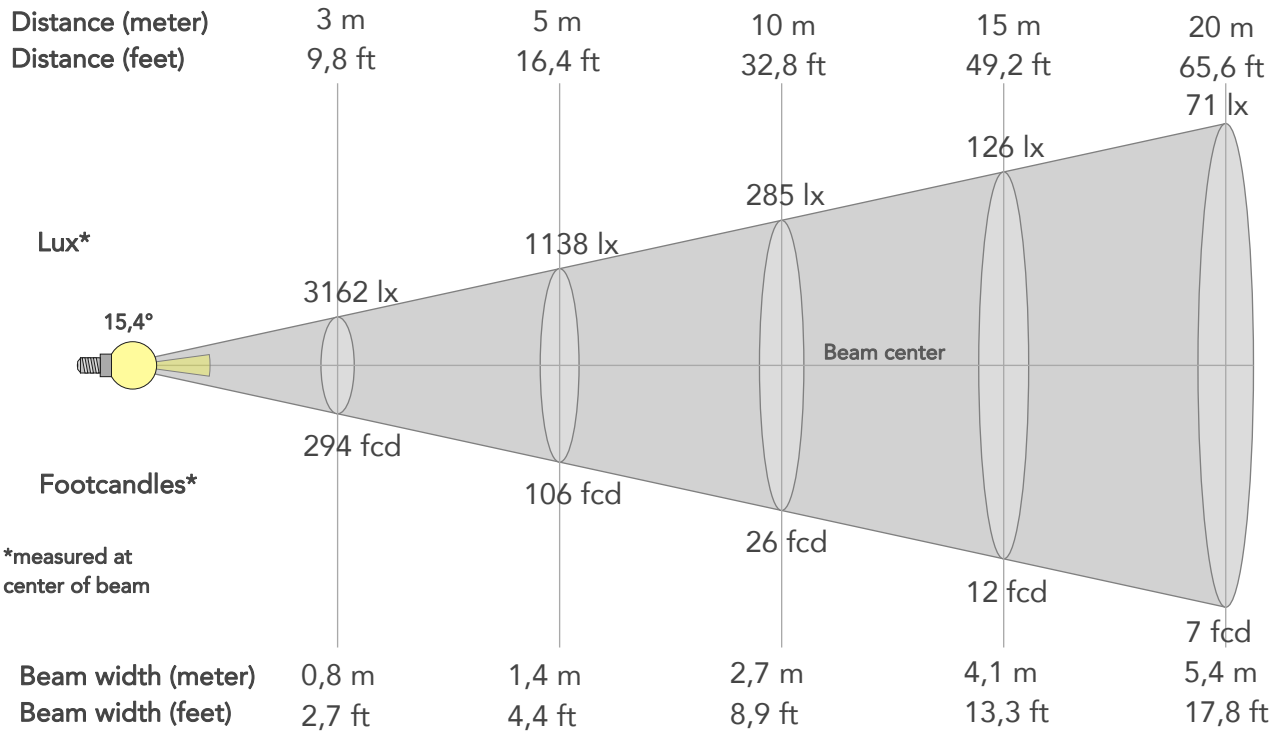
BEAM DETAILS

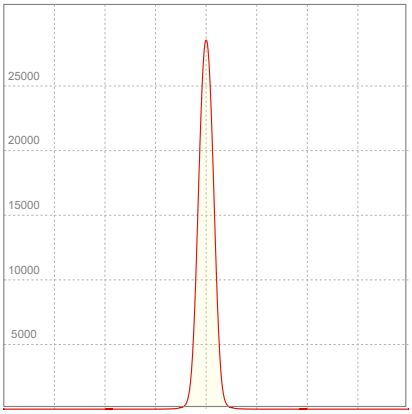
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	26,4°	33,1°	100,0%	100,0%



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	28461lx	7115lx	3162lx	1779lx	1138lx	506lx	285lx	126lx	71lx	46lx	32lx	18lx	11lx
Footcand.	2644fcd	661fcd	294fcd	165fcd	106fcd	47fcd	26fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,8m	13,5m
Beam wid.	0,9ft	1,8ft	2,7ft	3,5ft	4,4ft	6,7ft	8,9ft	13,3ft	17,8ft	22,2ft	26,7ft	35,5ft	44,4ft

LINEAR DISTRIBUTION DIAGRAM

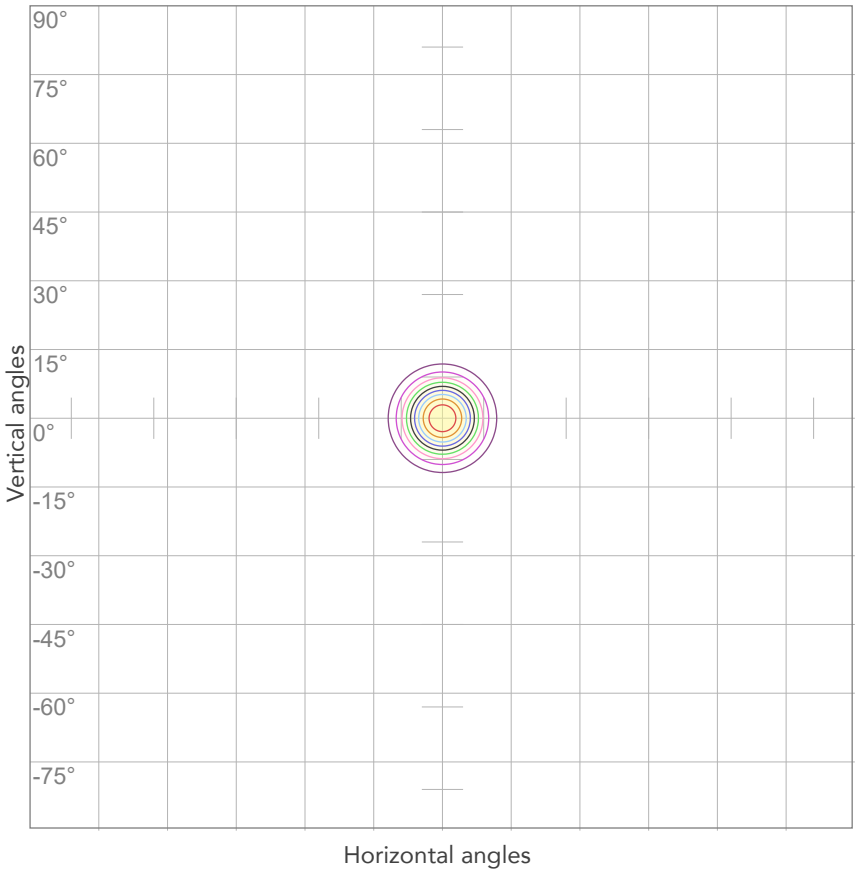


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,265A	53,1W	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



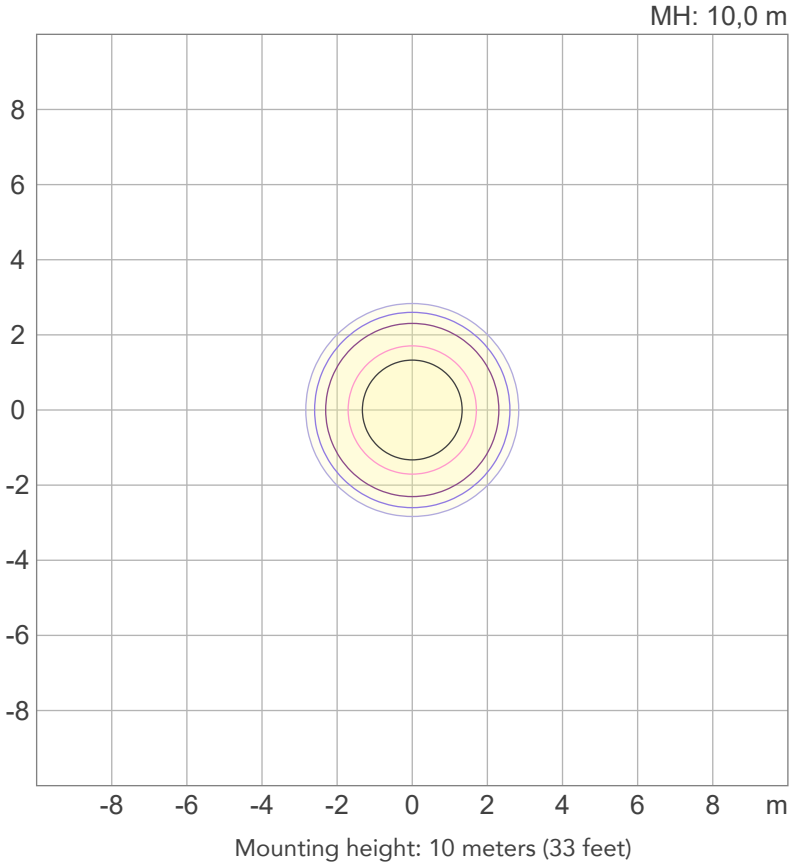
10%	2846 cd
20%	5692 cd
30%	8538 cd
40%	11384 cd
50%	14231 cd
60%	17077 cd
70%	19923 cd
80%	22769 cd

Conditions:

Number of c-planes: 2

Candela at center: 28461 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	8,54 lx
5%	14,2 lx
10%	28,5 lx
30%	85,4 lx
50%	142 lx

Conditions:

Number of c-planes: 2

Lux at center: 285 lx

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

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Total lumen output:

2334 lm

Peak candela output:

28774 cd

Light quality:

CRI: 93,7

Color temperature:

3194 K

PRODUCT NAME:

ECLPARIPMFC

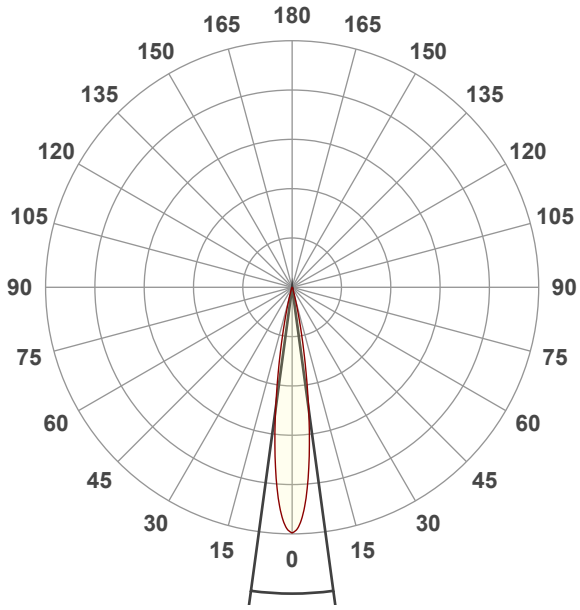
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
3200K

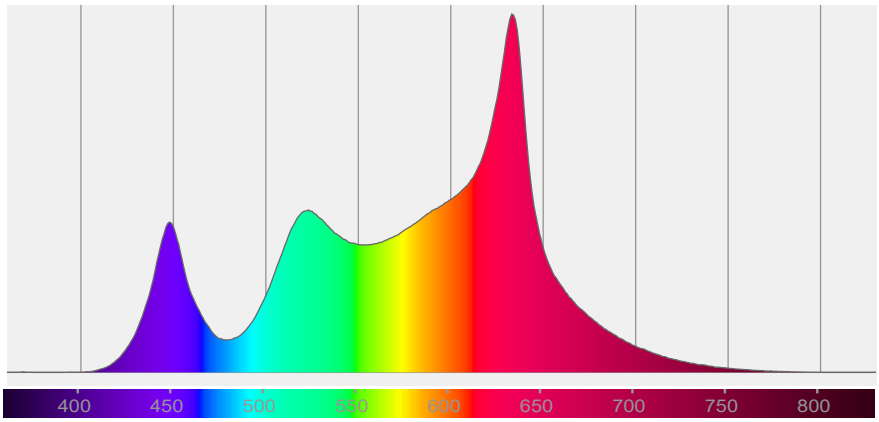
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:25:32



Beam angle 50%: 15,5°
Field angle 10%: 26,5°
Cut off angle 2.5%: 34,2°

Spectra



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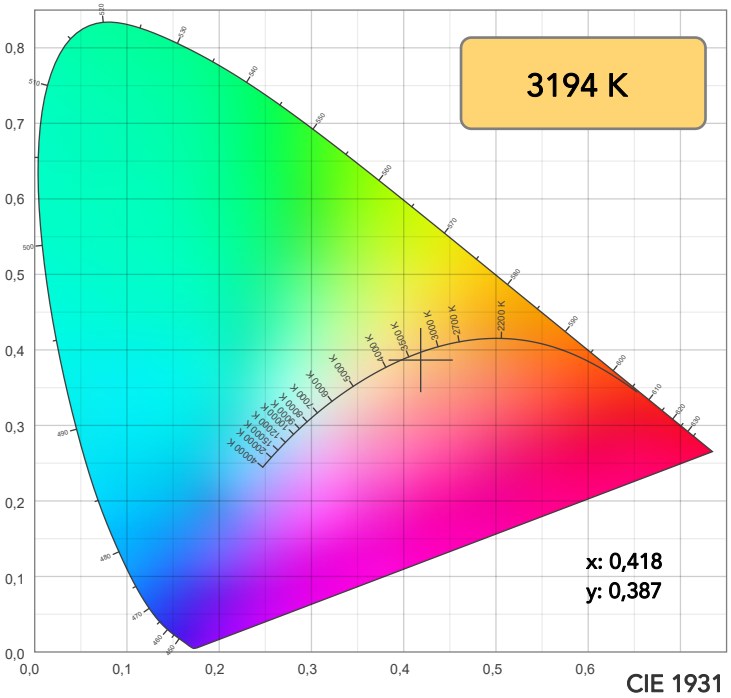
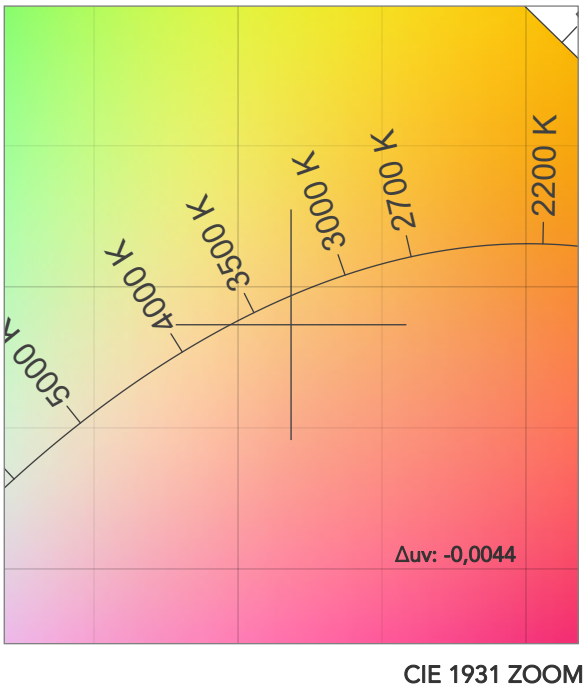
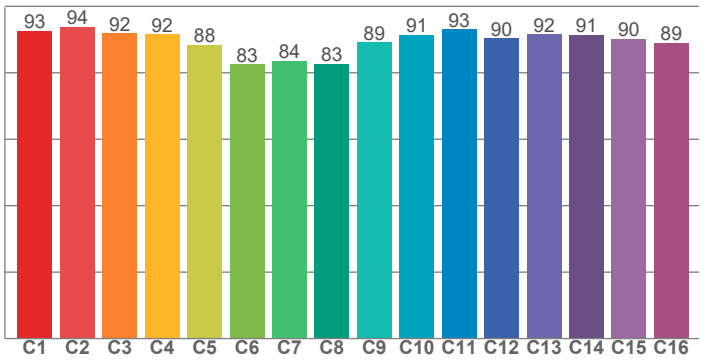
COLOR DETAILS

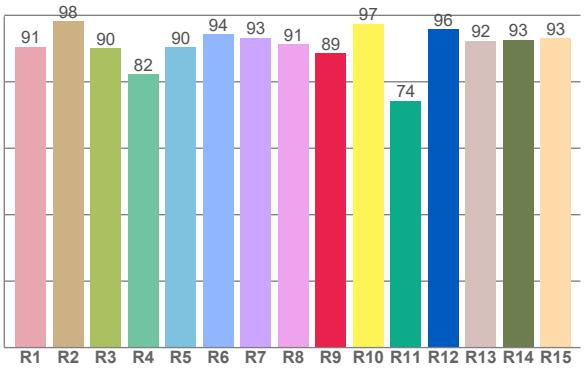




TM30: 90,1



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
90,5	98,1	90,1	82,3	90,4	94,2	93,2	91,4	88,6	97,5	74,3	95,9	92,4	92,6	93,0

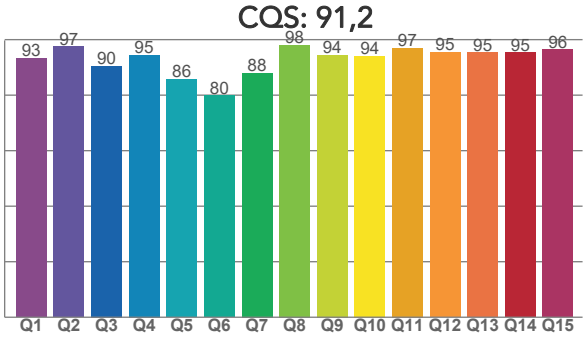
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	93,8	91,9	91,6	88,5	82,5	83,6	82,7	89,2	91,5	93,1	90,3	91,5	91,4	90,2	88,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,3	97,5	90,5	94,5	85,7	79,9	88,0	98,1	94,4	94,1	96,9	95,4	95,3	95,3	96,4

CQS: 91,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3194 K	93,7	88,6	90,1	109,3	91,2	77	0,418	0,387	-0,0044

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TM30 DETAILS

PROLiGHTS

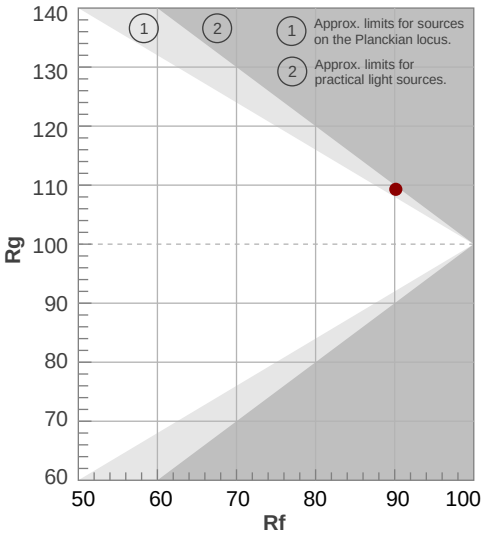
Rf 90,1

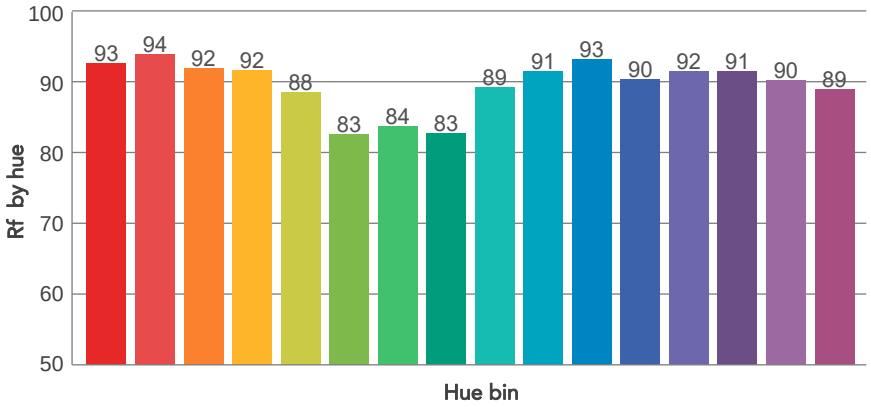
Fidelity index Rf

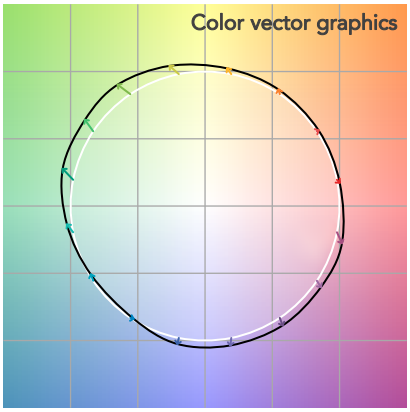
Rg 109,3

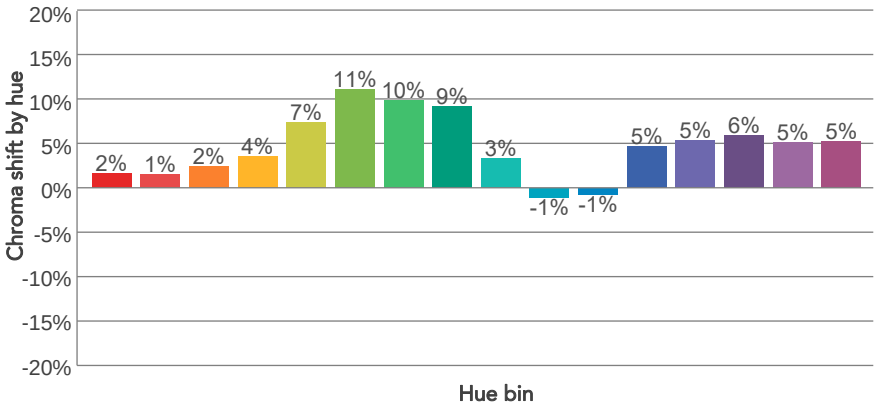
Gammut index

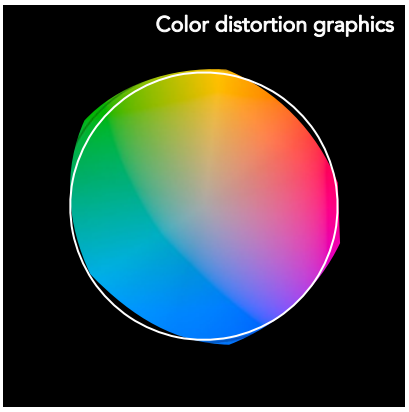
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	2%	-2%
2	94	1%	0%
3	92	2%	3%
4	92	4%	4%
5	88	7%	6%
6	83	11%	4%
7	84	10%	-4%
8	83	9%	-6%
9	89	3%	-7%
10	91	-1%	-5%
11	93	-1%	2%
12	90	5%	0%
13	92	5%	-2%
14	91	6%	-1%
15	90	5%	-2%
16	89	5%	-7%

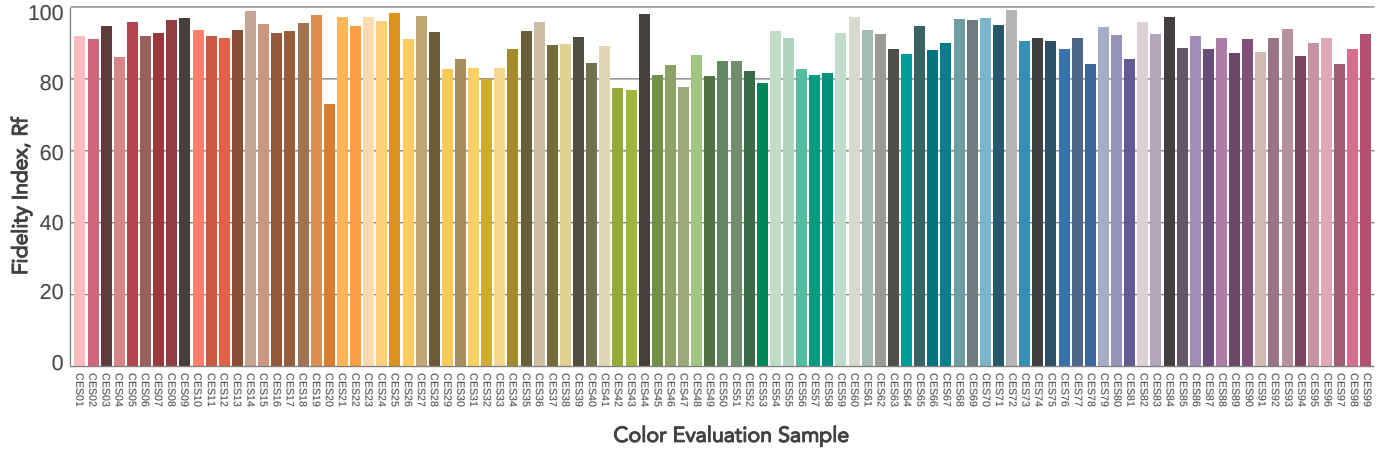












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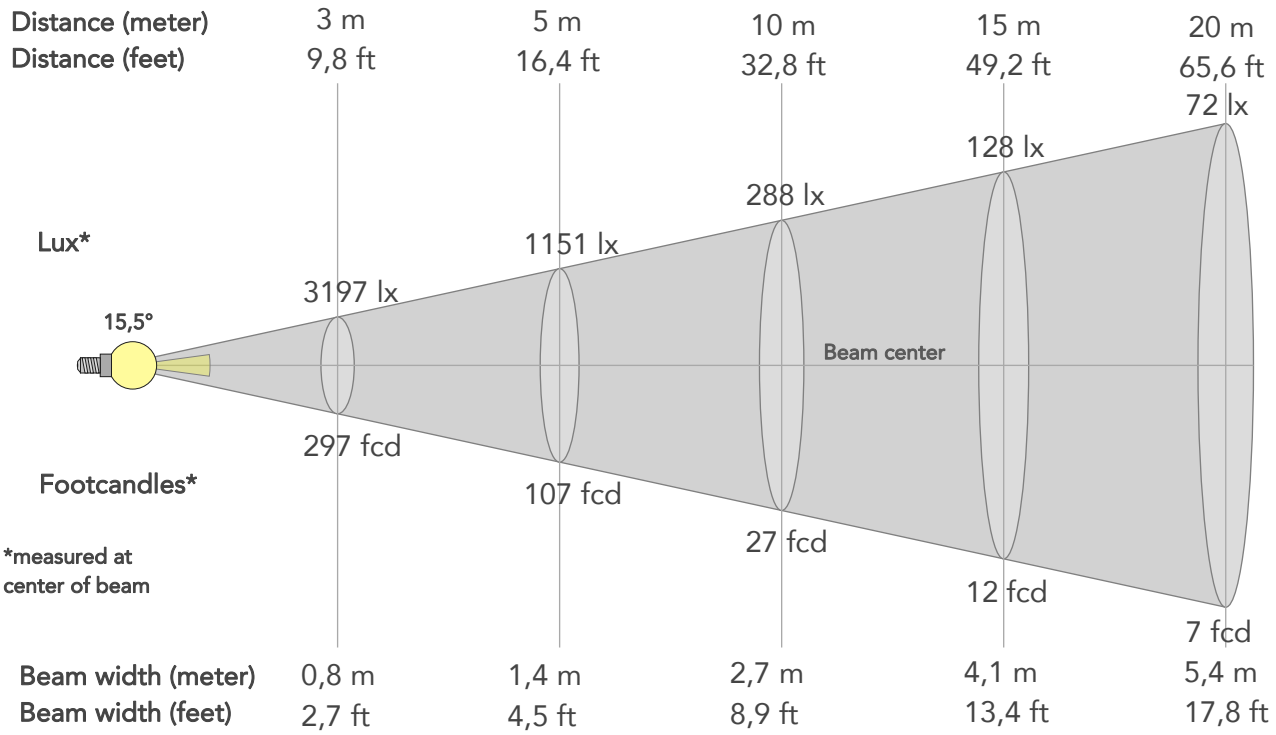
BEAM DETAILS

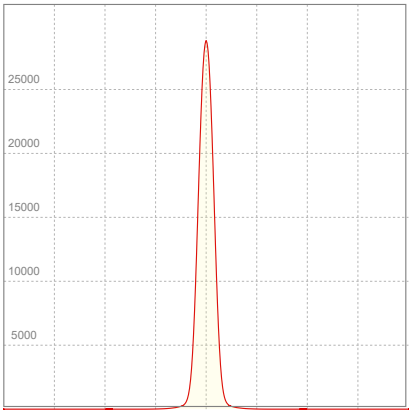
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,5°	34,2°	100,0%	99,8%



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	28774lx	7193lx	3197lx	1798lx	1151lx	512lx	288lx	128lx	72lx	46lx	32lx	18lx	12lx
Footcand.	2673fcd	668fcd	297fcd	167fcd	107fcd	48fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,1m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,8ft	22,3ft	26,7ft	35,6ft	44,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,270A	54,3W	43lm/W

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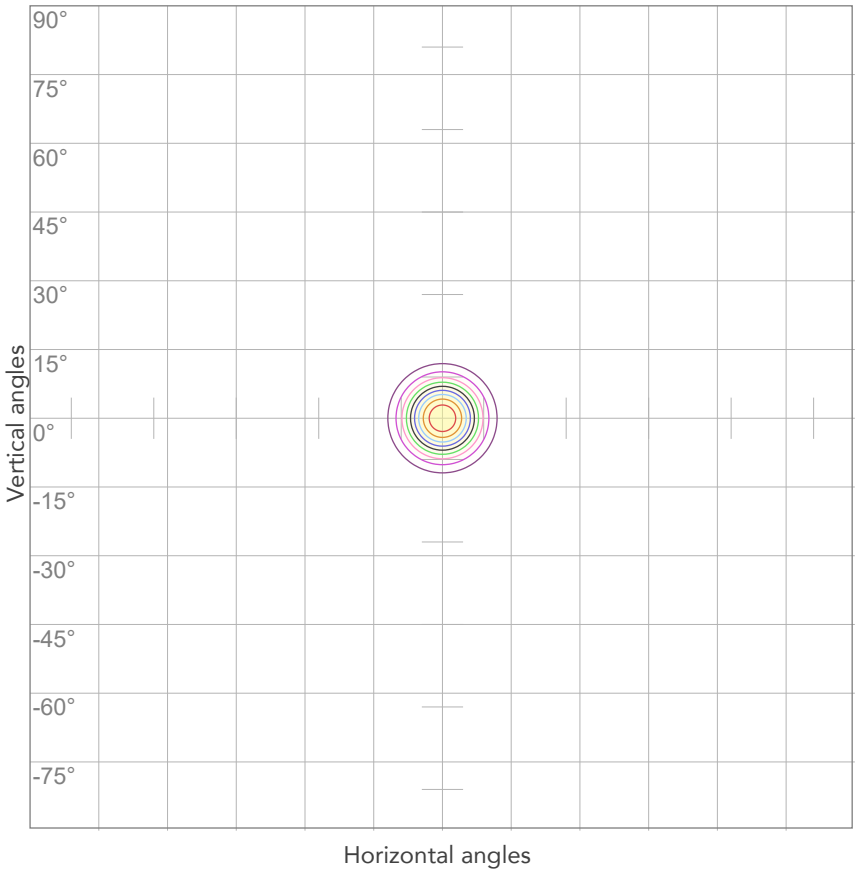
ISO DIAGRAMS

ISO CANDELA DIAGRAM



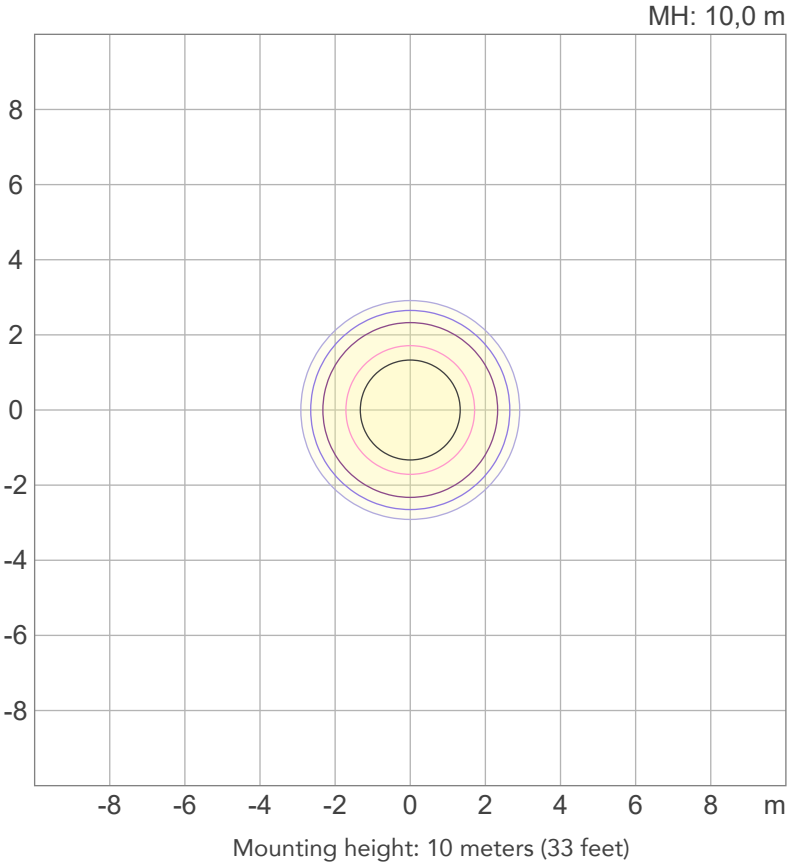
10%	2877 cd
20%	5755 cd
30%	8632 cd
40%	11509 cd
50%	14387 cd
60%	17264 cd
70%	20142 cd
80%	23019 cd

Conditions:

Number of c-planes: 2

Candela at center: 28774 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	8,63 lx
5%	14,4 lx
10%	28,8 lx
30%	86,3 lx
50%	144 lx

Conditions:

Number of c-planes: 2

Lux at center: 288 lx

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

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Total lumen output:

2324 lm

Peak candela output:

29467 cd

Light quality:

CRI: **93,7**

Color temperature:

4032 K

PRODUCT NAME:

ECLPARIPMFC

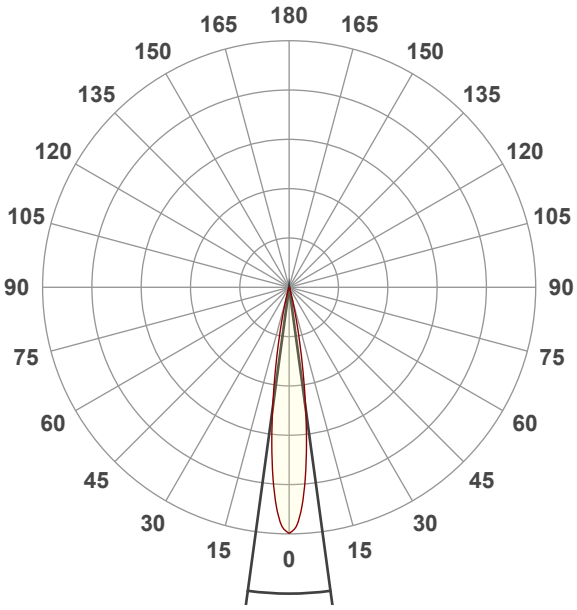
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
4000K

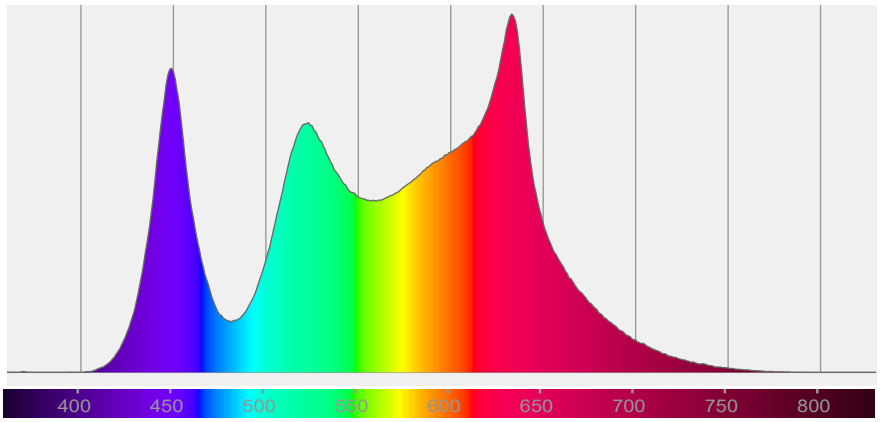
Operator:
Paolo Carvone

Date and time:
01/08/2023 17:33:19



Beam angle 50%: 15,5°
Field angle 10%: 26,7°
Cut off angle 2.5%: 33,6°

Spectra



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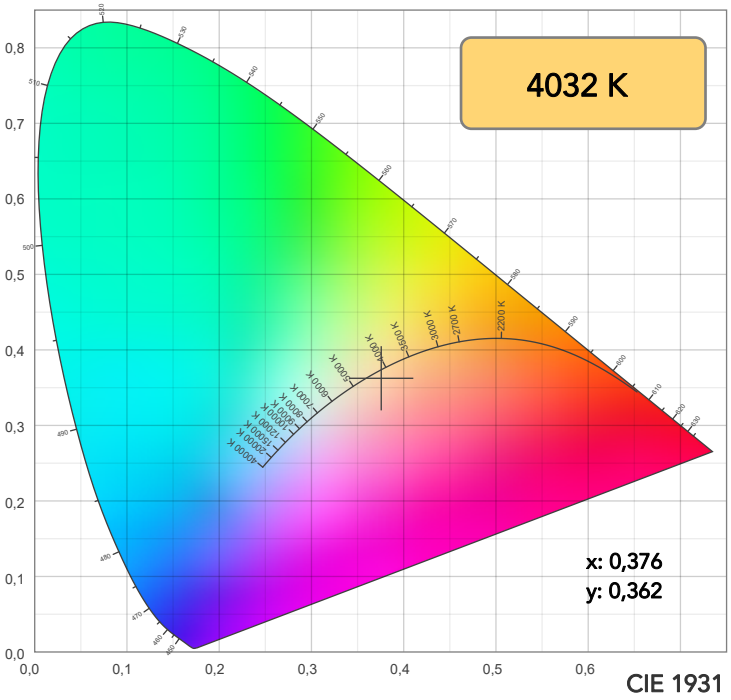
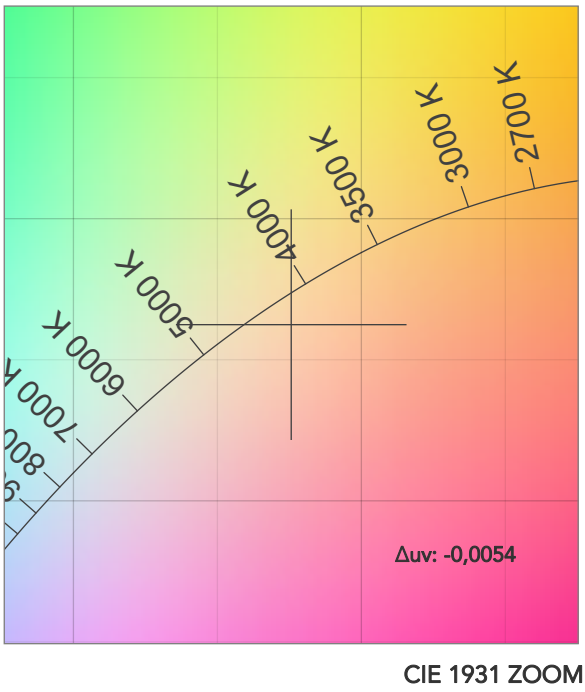
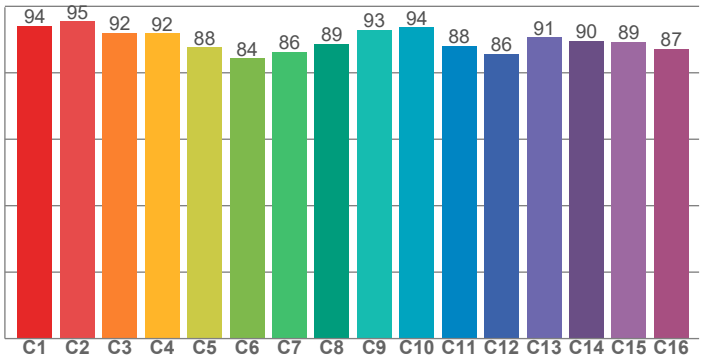
COLOR DETAILS

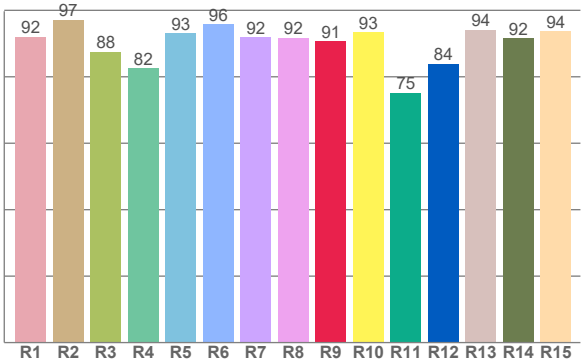




TM30: 90,2



CRI: 91,5 (R1-R8)



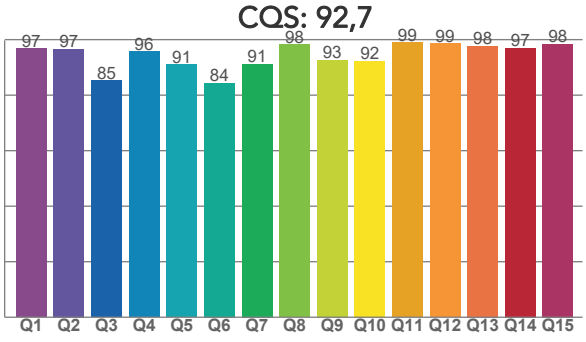
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,1	97,1	87,5	82,5	93,0	95,8	91,9	91,8	90,8	93,4	75,2	83,9	94,2	91,5	93,8

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	95,4	92,1	91,9	87,7	84,4	86,3	88,7	92,9	93,6	88,0	85,7	90,6	89,6	89,3	87,2

CQS: 92,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,8	96,6	85,3	95,7	91,0	84,4	91,2	98,2	92,7	92,4	99,0	98,6	97,7	97,1	98,4

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
4032 K	**93,7**	**90,8**	**90,2**	**108,4**	**92,7**	**80**	**0,376**	**0,362**	**-0,0054**

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TM30 DETAILS

PROLiGHTS

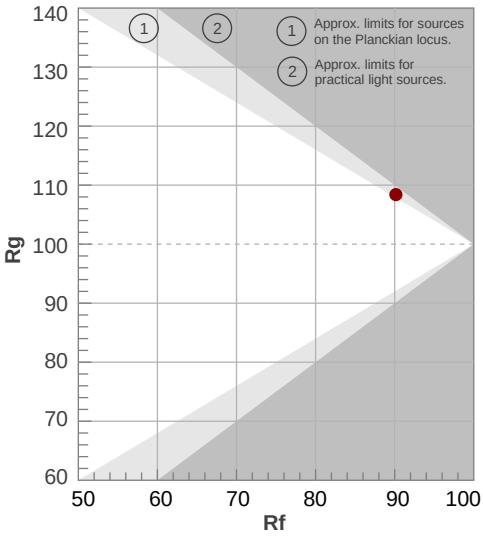
Rf 90,2

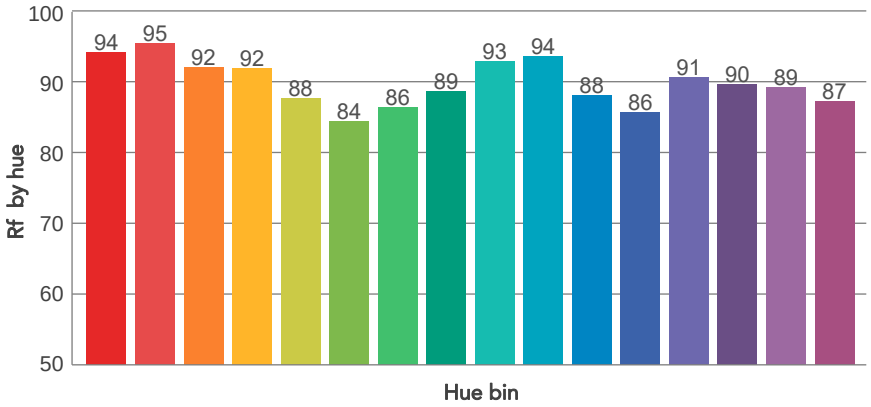
Fidelity index Rf

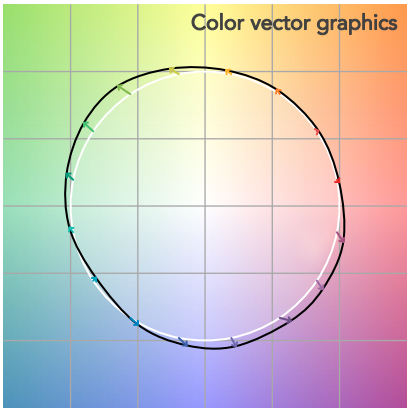
Rg 108,4

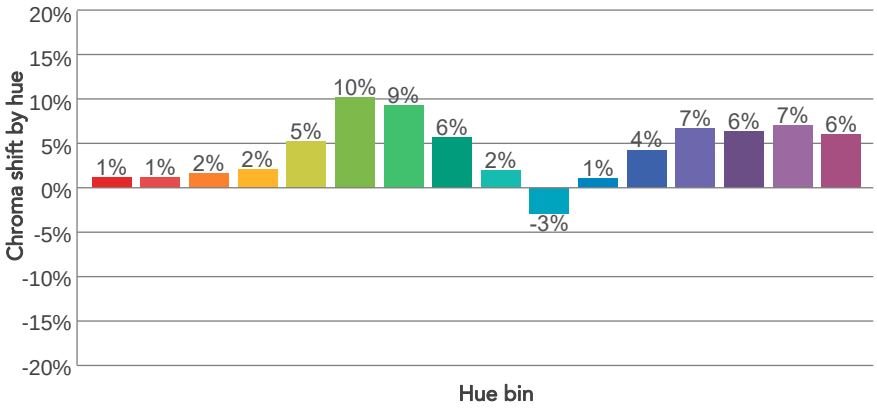
Gammut index

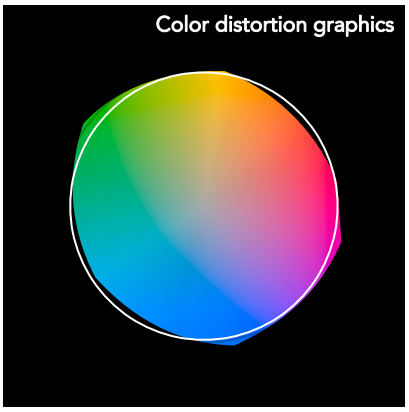
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	95	1%	0%
3	92	2%	4%
4	92	2%	4%
5	88	5%	6%
6	84	10%	4%
7	86	9%	-1%
8	89	6%	-3%
9	93	2%	-4%
10	94	-3%	-1%
11	88	1%	8%
12	86	4%	7%
13	91	7%	2%
14	90	6%	6%
15	89	7%	-3%
16	87	6%	-6%

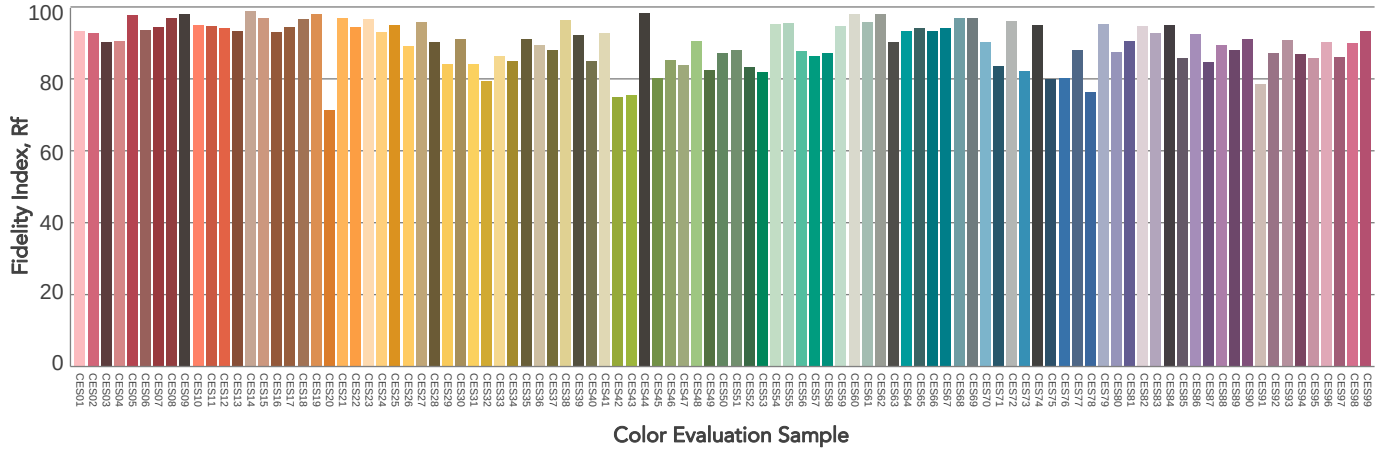












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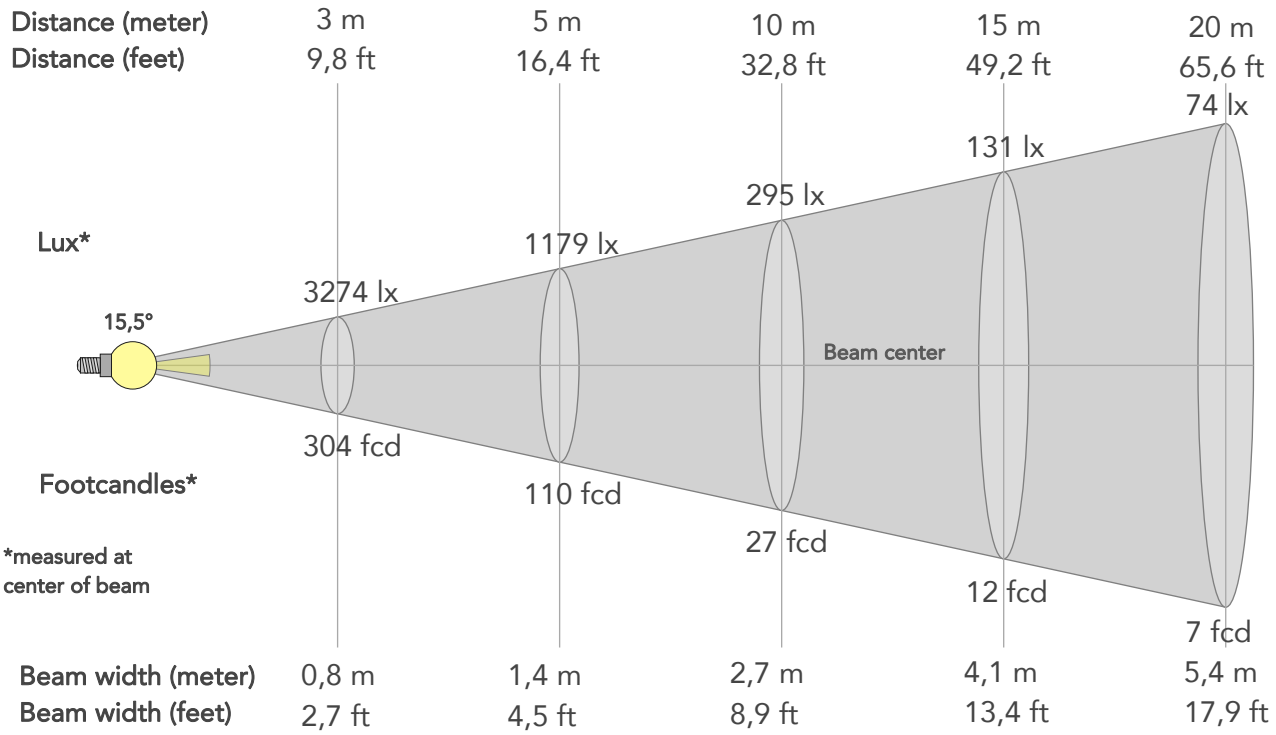
BEAM DETAILS

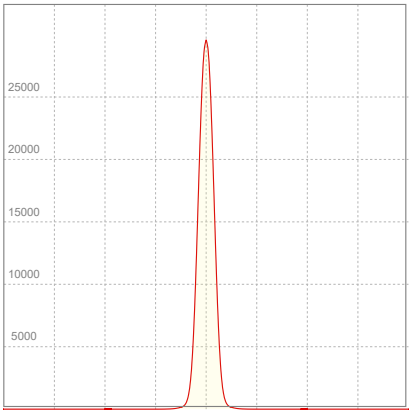
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,7°	33,6°	100,0%	100,0%



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	29467lx	7367lx	3274lx	1842lx	1179lx	524lx	295lx	131lx	74lx	47lx	33lx	18lx	12lx
Footcand.	2738fcd	684fcd	304fcd	171fcd	110fcd	49fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,9ft	22,3ft	26,8ft	35,7ft	44,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,286A	57,9W	40lm/W

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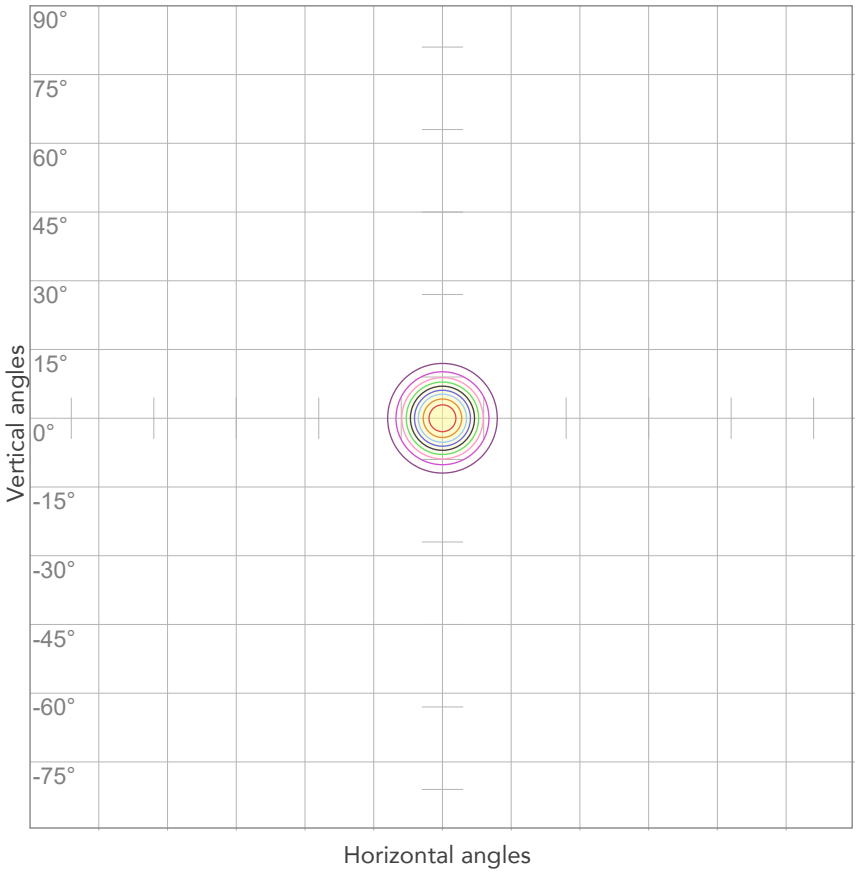
ISO DIAGRAMS

ISO CANDELA DIAGRAM



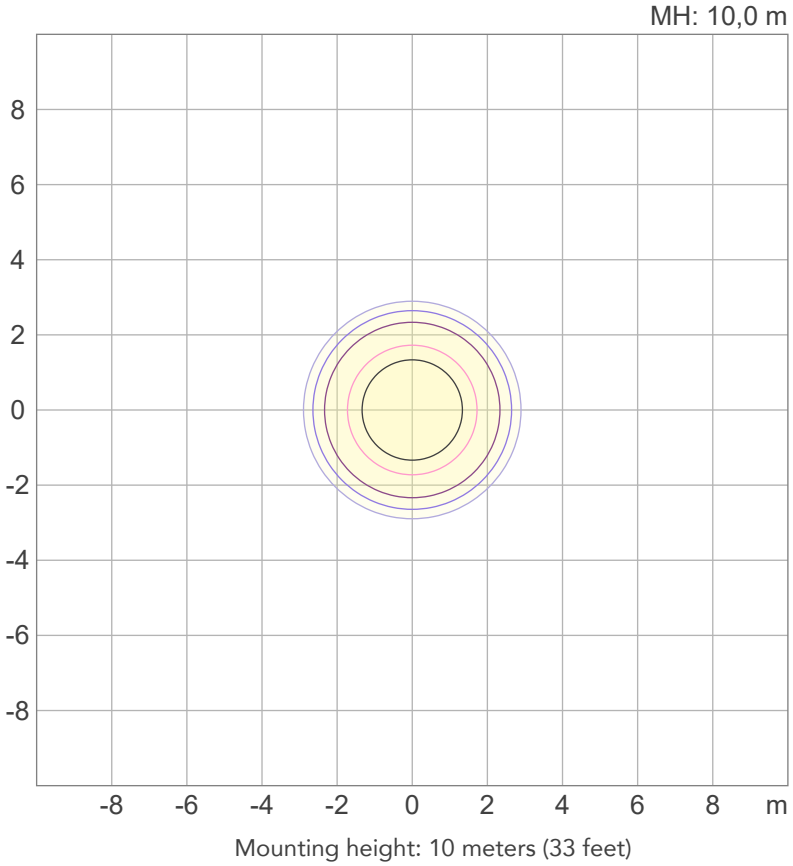
10%	2947 cd
20%	5893 cd
30%	8840 cd
40%	11787 cd
50%	14733 cd
60%	17680 cd
70%	20627 cd
80%	23573 cd

Conditions:

Number of c-planes: 2

Candela at center: 29467 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	8,84 lx
5%	14,7 lx
10%	29,5 lx
30%	88,4 lx
50%	147 lx

Conditions:

Number of c-planes: 2

Lux at center: 295 lx

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

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Total lumen output:

2653 lm

Peak candela output:

31112 cd

Light quality:

CRI: 91,0

Color temperature:

5616 K

PRODUCT NAME:

ECLPARIPMFC

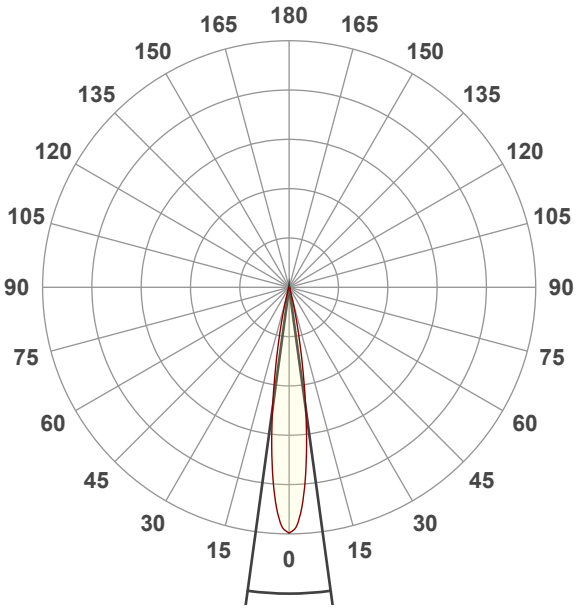
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
5600K

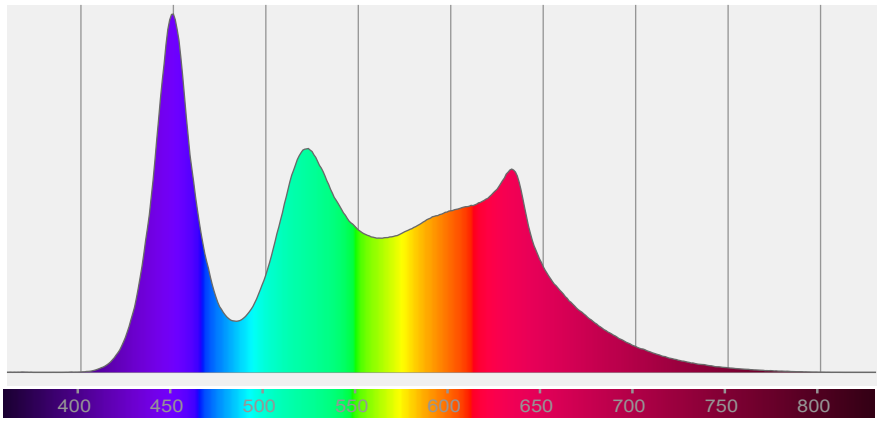
Operator:
Paolo Carvone

Date and time:
01/08/2023 18:05:30



Beam angle 50%: 15,6°
Field angle 10%: 26,9°
Cut off angle 2.5%: 34,9°

Spectra



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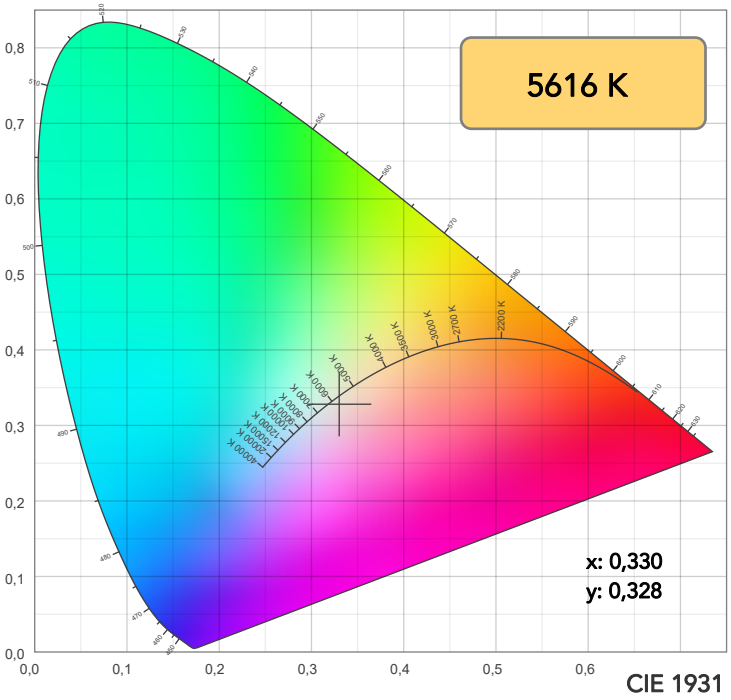
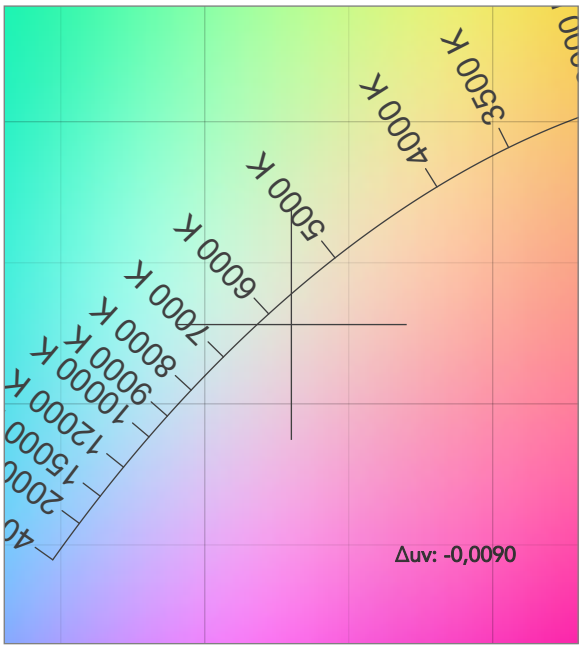
COLOR DETAILS

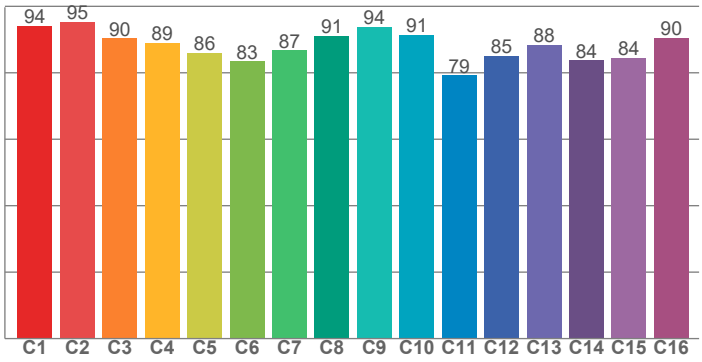


CIE 1931

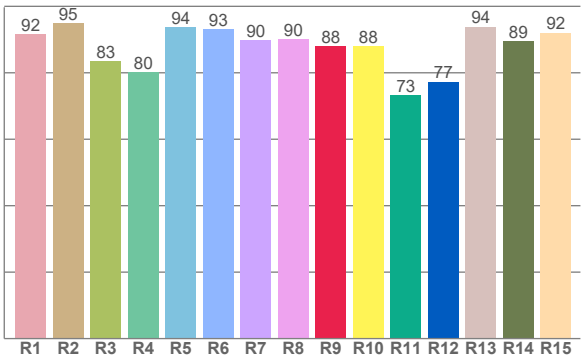


CIE 1931 ZOOM

TM30: 88,2



CRI: 91,0 (R1-R8)



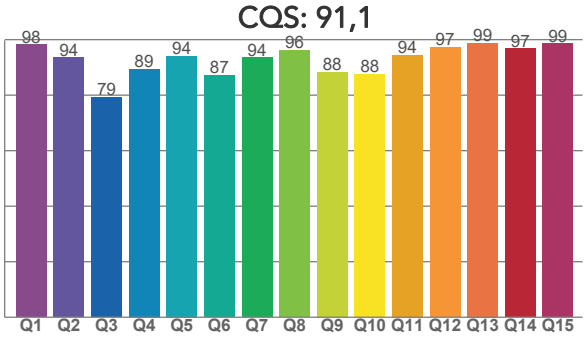
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,6	94,8	83,4	80,2	93,7	93,0	89,7	90,2	87,9	88,0	73,2	77,3	93,8	89,4	92,1

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,1	95,4	90,4	89,0	86,1	83,5	86,7	91,1	93,7	91,5	79,2	85,1	88,3	83,7	84,5	90,5

CQS: 91,1



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	93,6	79,2	89,4	94,2	87,2	93,6	96,1	88,4	87,6	94,5	97,2	98,8	96,8	98,6

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
5616 K	91,0	87,9	88,2	108,8	91,1	86	0,330	0,328	-0,0090

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TM30 DETAILS

PROLiGHTS

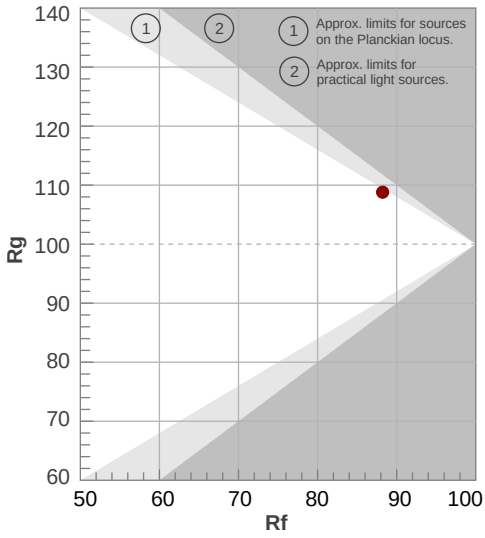
Rf 88,2

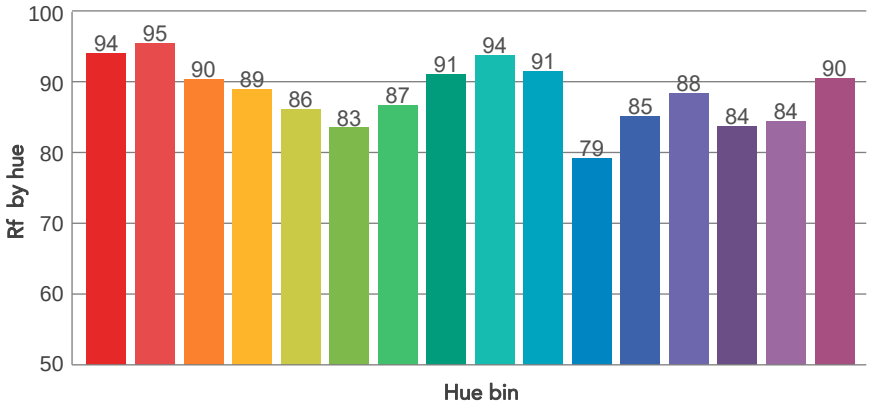
Fidelity index Rf

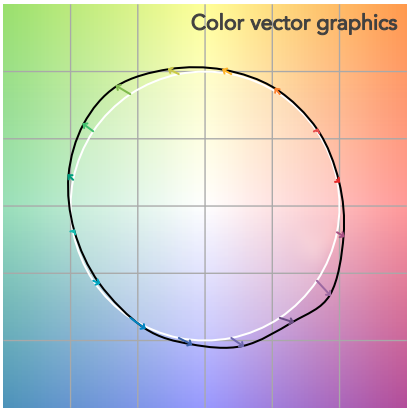
Rg 108,8

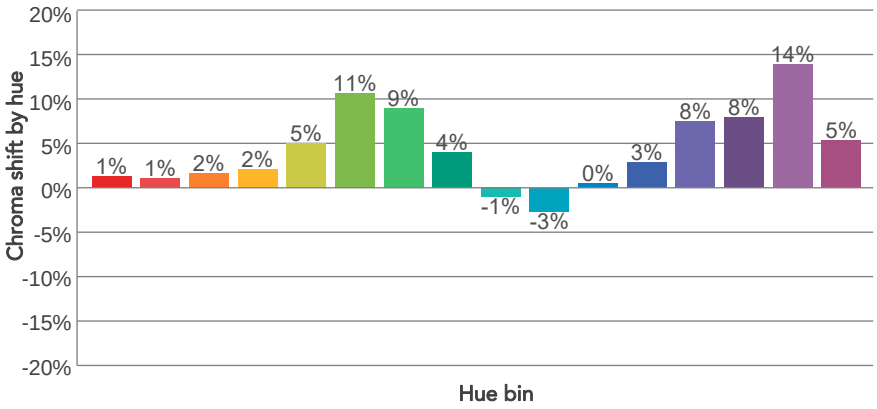
Gammut index

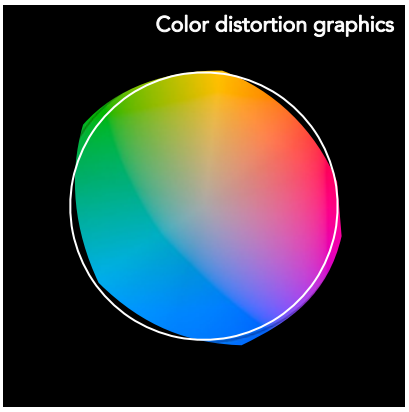
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-2%
2	95	1%	1%
3	90	2%	5%
4	89	2%	6%
5	86	5%	6%
6	83	11%	5%
7	87	9%	0%
8	91	4%	-3%
9	94	-1%	-1%
10	91	-3%	4%
11	79	0%	13%
12	85	3%	10%
13	88	8%	7%
14	84	8%	6%
15	84	14%	-3%
16	90	5%	-2%

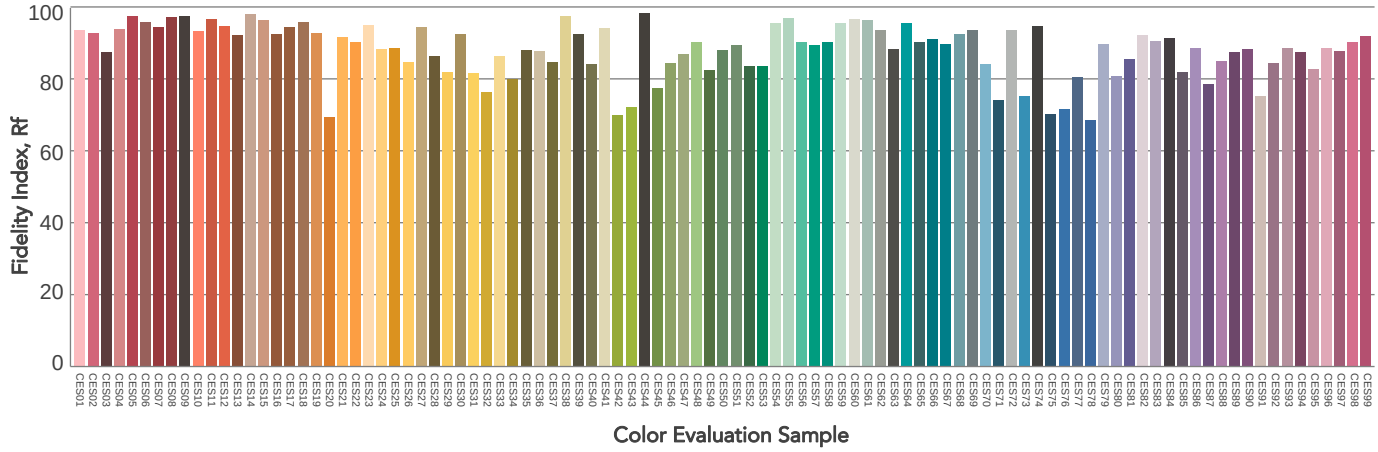












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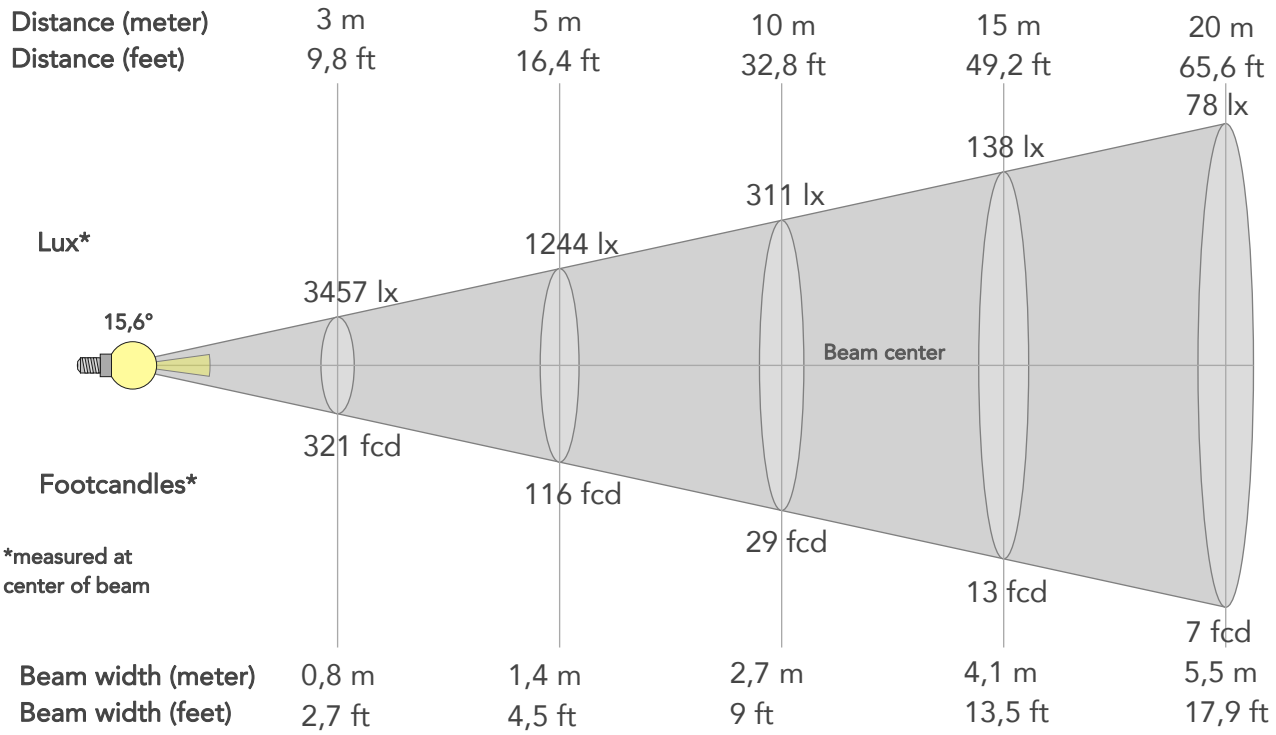
BEAM DETAILS

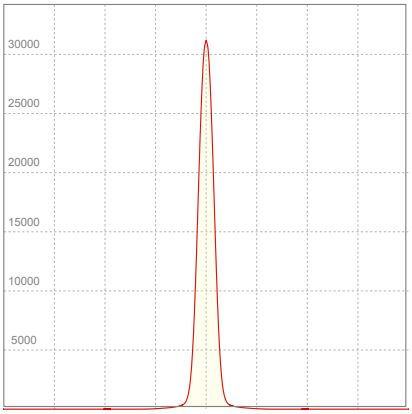
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,6°	26,9°	34,9°	100,0%	99,4%



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	31112lx	7778lx	3457lx	1945lx	1244lx	553lx	311lx	138lx	78lx	50lx	35lx	19lx	12lx
Footcand.	2890fcd	723fcd	321fcd	181fcd	116fcd	51fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2,1m	2,7m	4,1m	5,5m	6,8m	8,2m	10,9m	13,7m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	9ft	13,5ft	17,9ft	22,4ft	26,9ft	35,9ft	44,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
225V	0,313A	64,0W	41lm/W

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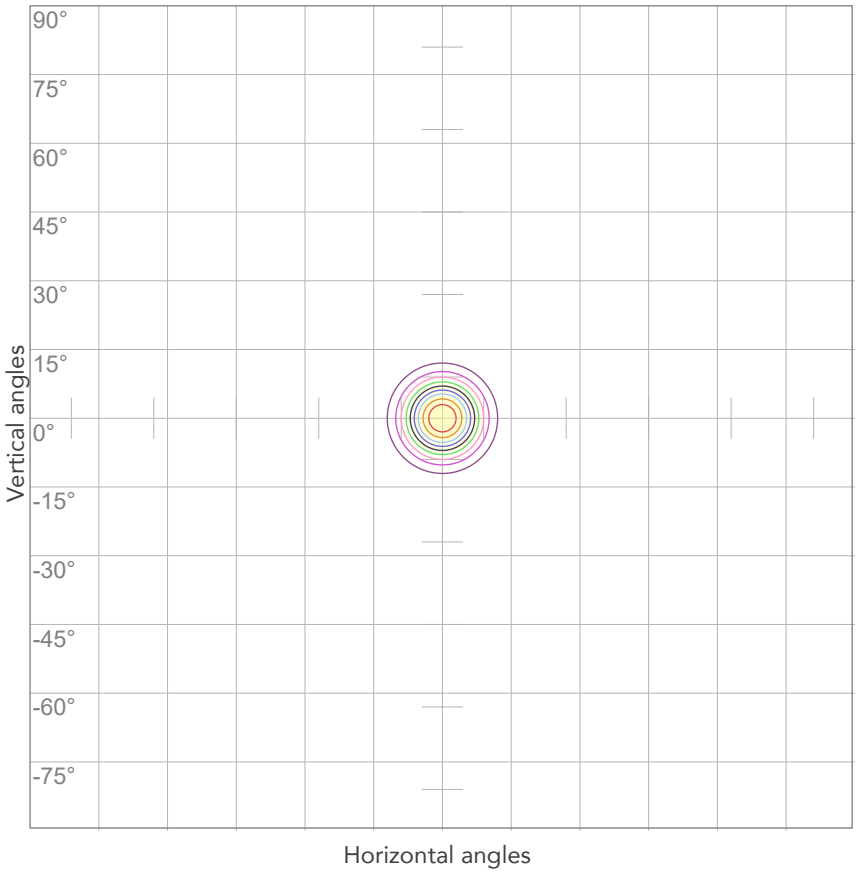
ISO DIAGRAMS

ISO CANDELA DIAGRAM



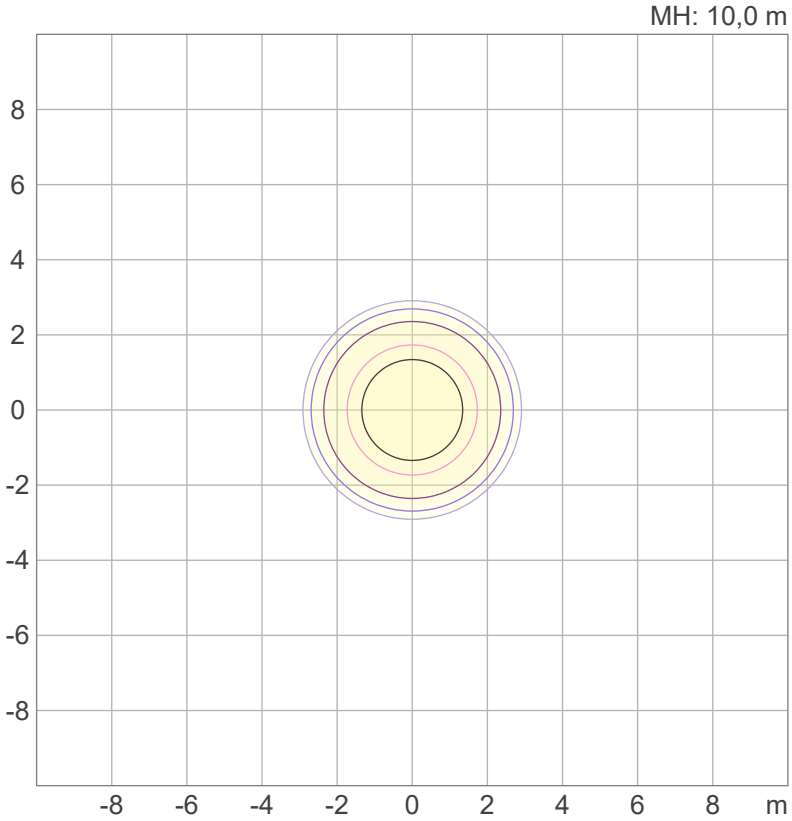
10%	3111 cd
20%	6222 cd
30%	9334 cd
40%	12445 cd
50%	15556 cd
60%	18667 cd
70%	21779 cd
80%	24890 cd

Conditions:

Number of c-planes: 2

Candela at center: 31112 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,33 lx
5%	15,6 lx
10%	31,1 lx
30%	93,3 lx
50%	156 lx

Conditions:

Number of c-planes: 2

Lux at center: 311 lx

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

Total lumen output:

2651 lm

Peak candela output:

31450 cd

Light quality:

CRI: **91,0**

Color temperature:

5937 K

PRODUCT NAME:

ECLPARIPMFC

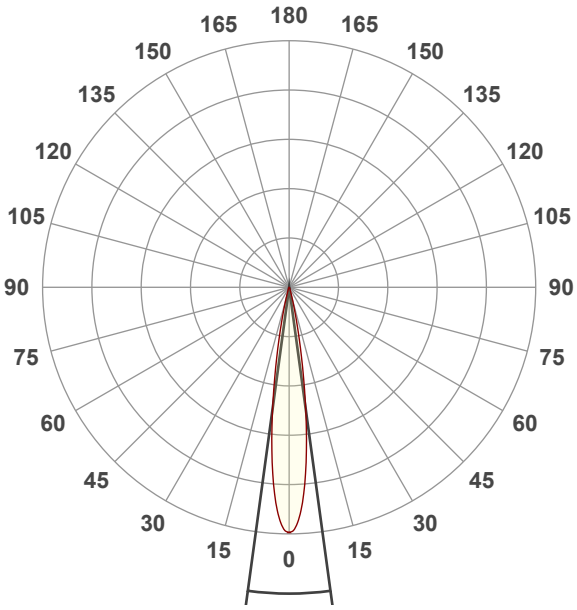
MEASURAMENT CONDITIONS:

Beam angle:
Narrow Lens

Target:
6000K

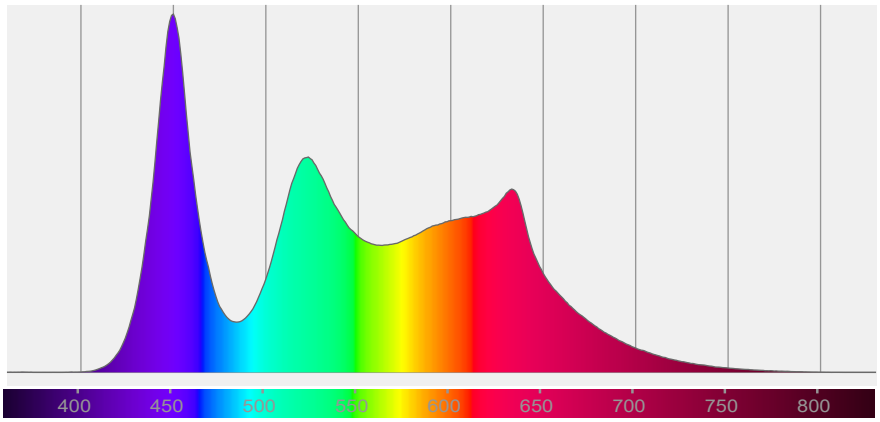
Operator:
Paolo Carvone

Date and time:
01/08/2023 18:10:44

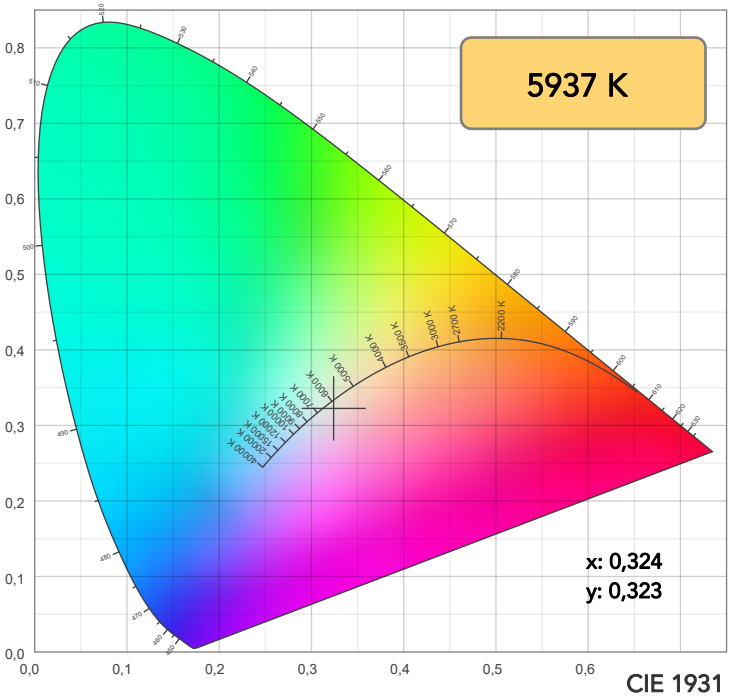


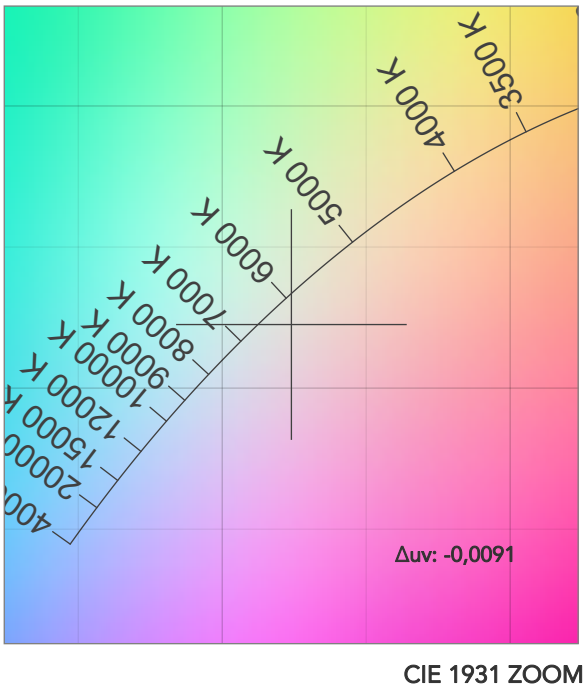
Beam angle 50%: 15,5°
Field angle 10%: 26,6°
Cut off angle 2.5%: 34,6°

Spectra

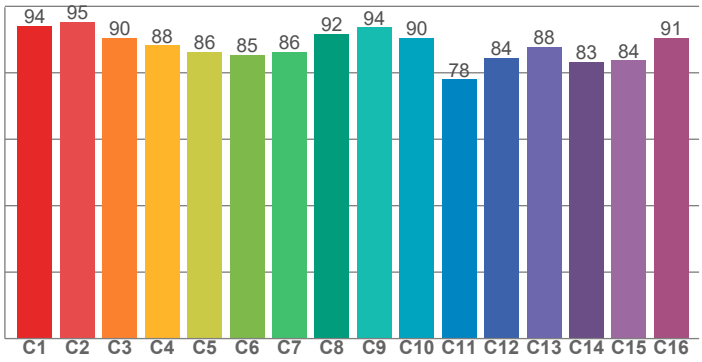


COLOR DETAILS

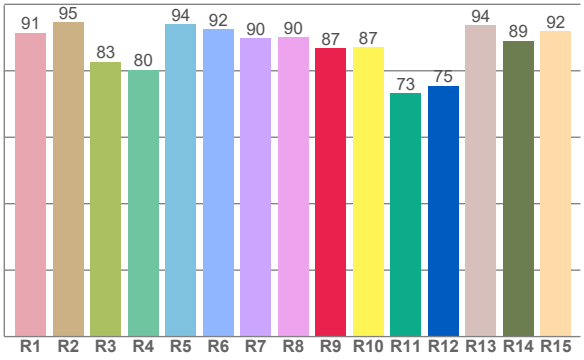




TM30: 88,1



CRI: 89,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,4	94,6	82,8	80,3	94,0	92,4	89,7	90,0	86,9	87,2	73,3	75,5	93,7	89,1	91,8

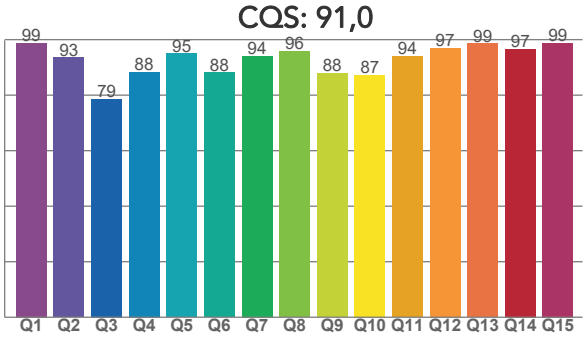
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,0	95,3	90,5	88,3	86,3	85,4	86,4	91,7	93,6	90,5	78,0	84,5	87,8	83,4	83,7	90,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,7	93,5	78,7	88,3	95,0	88,1	94,2	95,8	87,9	87,2	94,0	97,0	98,6	96,7	98,8

CQS: 91,0



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
5937 K	91,0	86,9	88,1	108,7	91,0	87	0,324	0,323	-0,0091

TM30 DETAILS

PROLiGHTS

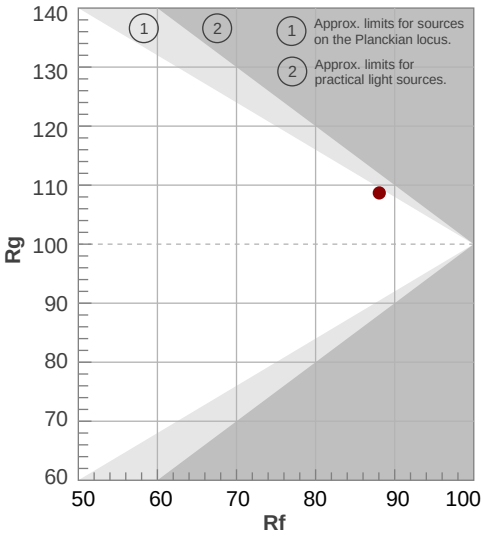
Rf 88,1

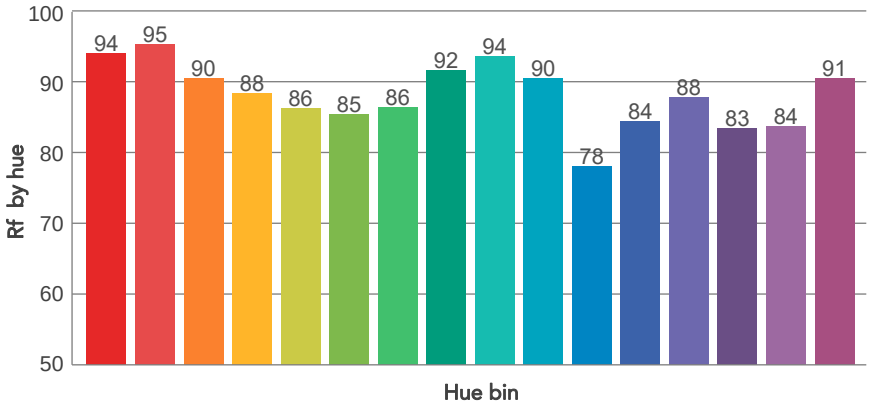
Fidelity index Rf

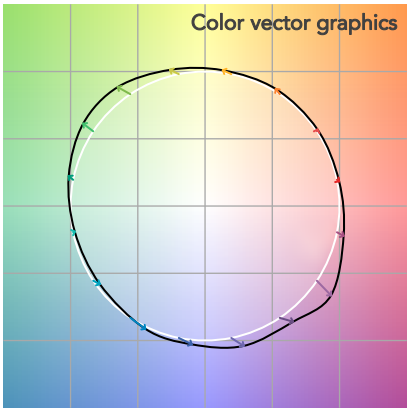
Rg 108,7

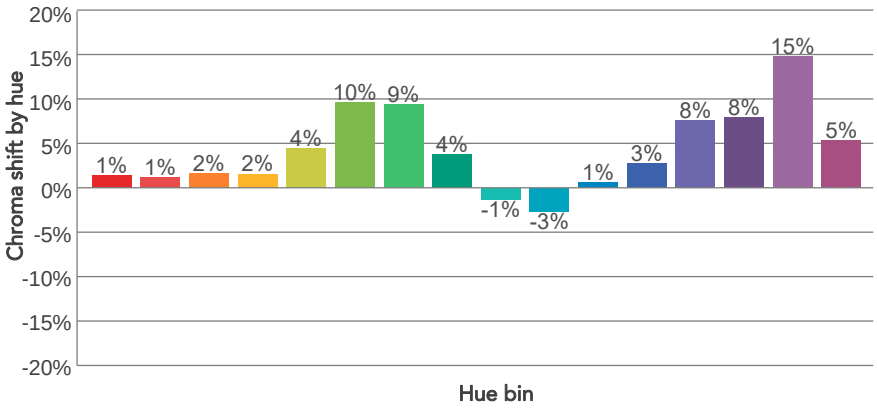
Gammut index

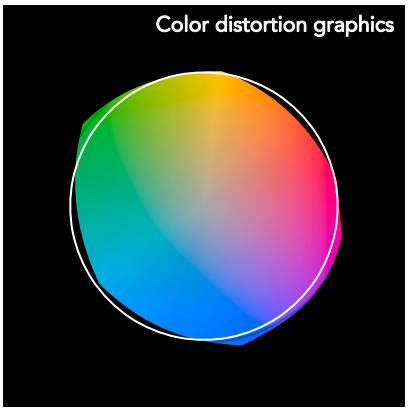
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	-1%
2	95	1%	1%
3	90	2%	5%
4	88	2%	7%
5	86	4%	6%
6	85	10%	5%
7	86	9%	-1%
8	92	4%	-2%
9	94	-1%	0%
10	90	-3%	5%
11	78	1%	14%
12	84	3%	10%
13	88	8%	8%
14	83	8%	7%
15	84	15%	-3%
16	91	5%	-2%

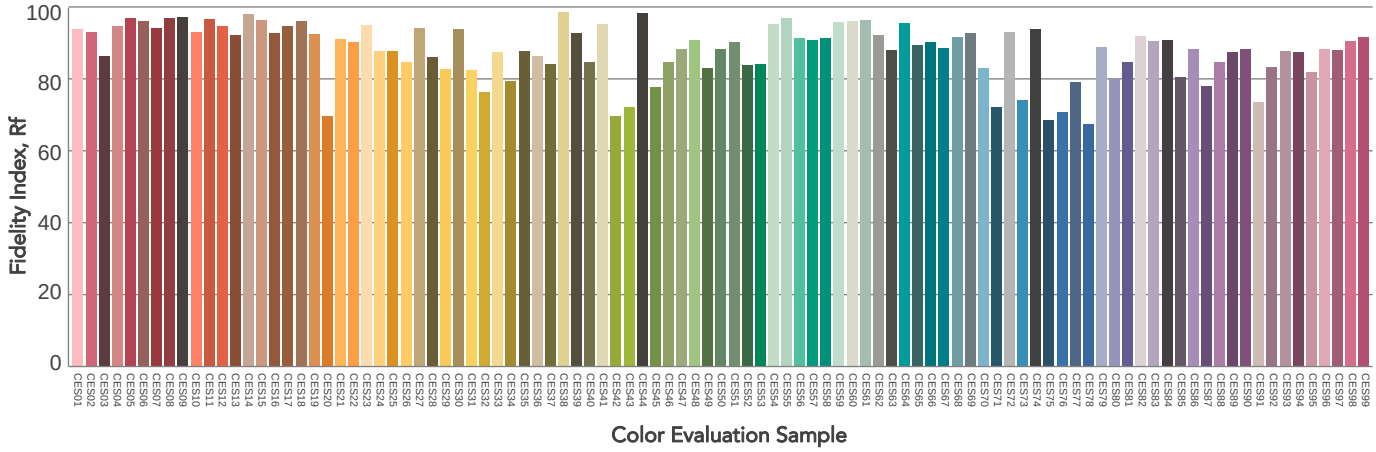












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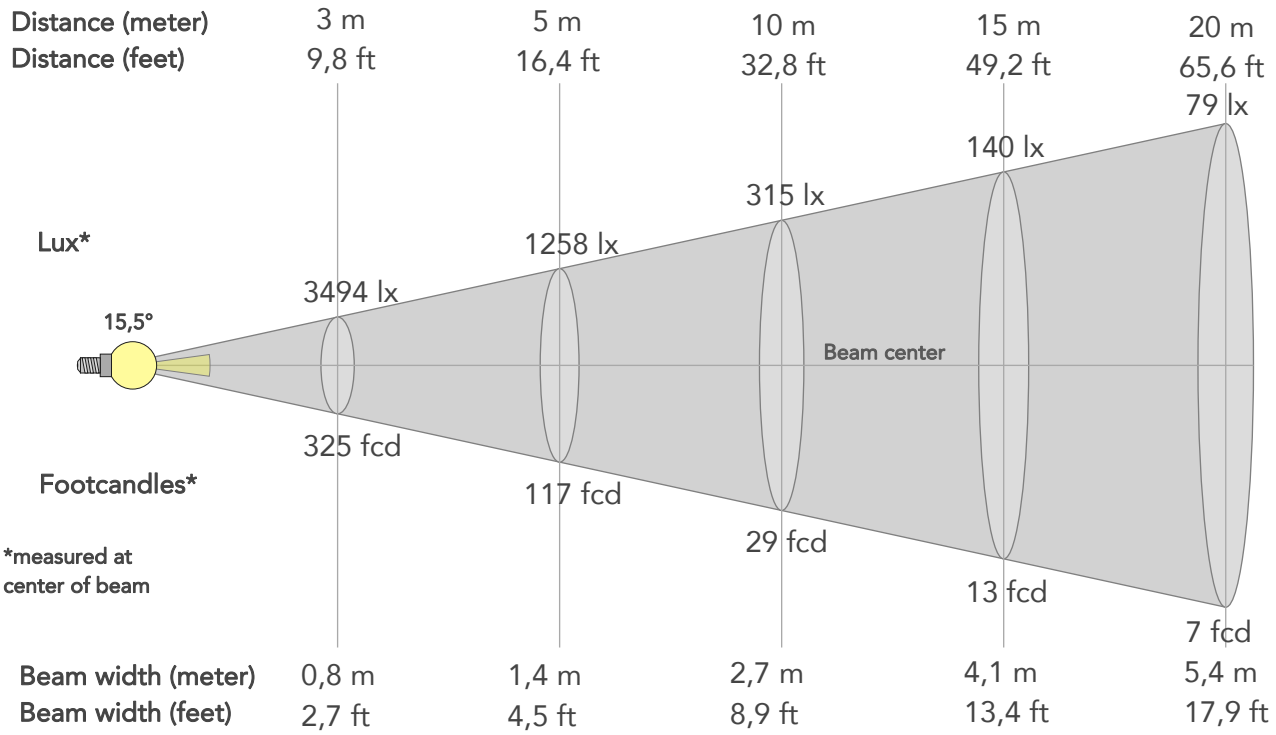
BEAM DETAILS

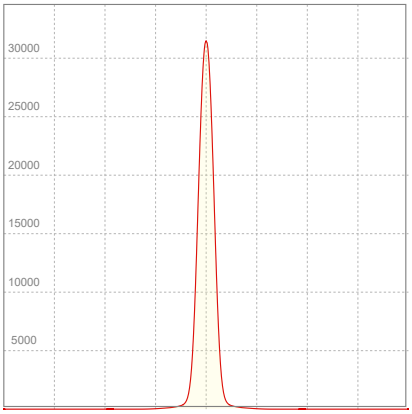
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,5°	26,6°	34,6°	100,0%	99,4%



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	31450lx	7863lx	3494lx	1966lx	1258lx	559lx	315lx	140lx	79lx	50lx	35lx	20lx	13lx
Footcand.	2922fcd	730fcd	325fcd	183fcd	117fcd	52fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,4m	2m	2,7m	4,1m	5,4m	6,8m	8,2m	10,9m	13,6m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,7ft	8,9ft	13,4ft	17,9ft	22,3ft	26,8ft	35,7ft	44,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,316A	64,9W	41lm/W

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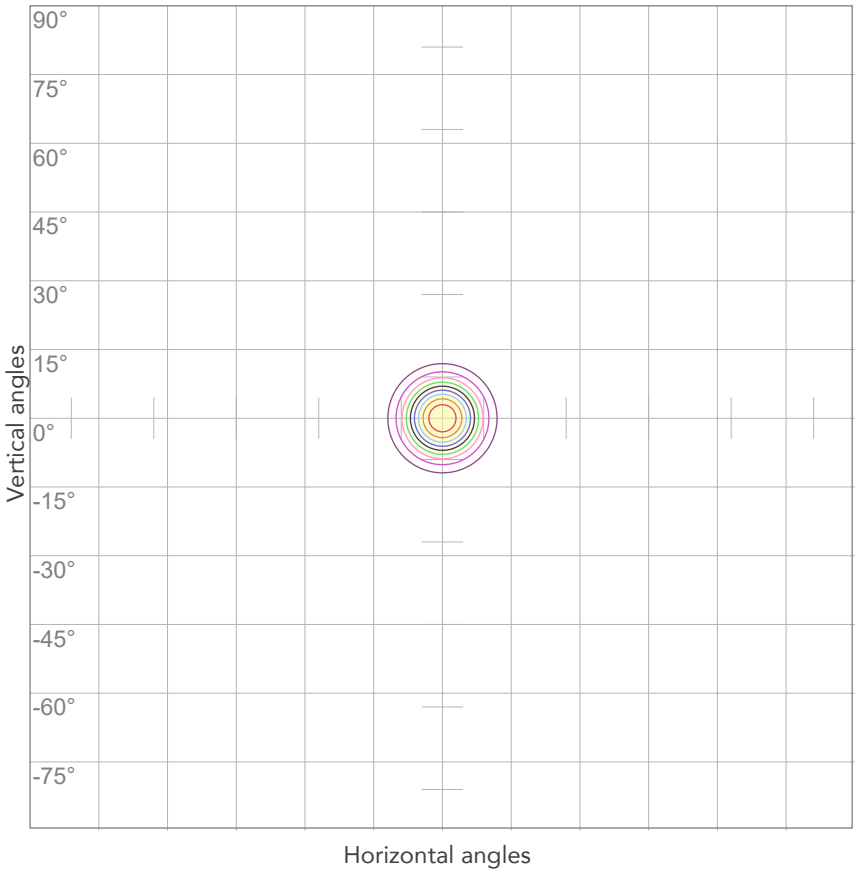
ISO DIAGRAMS

ISO CANDELA DIAGRAM



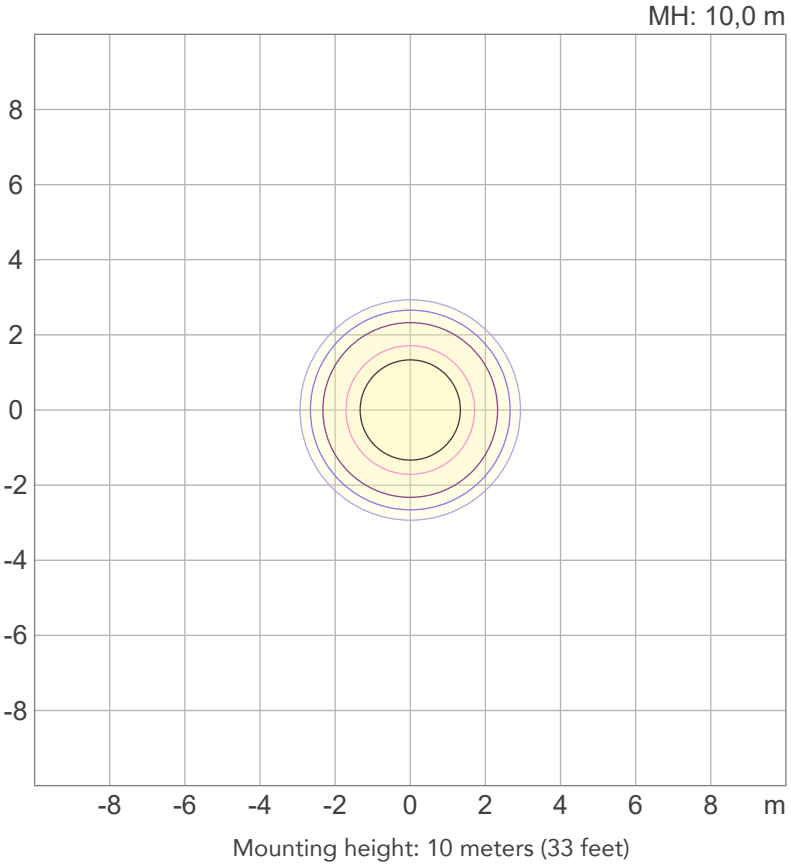
10%	3145 cd
20%	6290 cd
30%	9435 cd
40%	12580 cd
50%	15725 cd
60%	18870 cd
70%	22015 cd
80%	25160 cd

Conditions:

Number of c-planes: 2

Candela at center: 31450 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,44 lx
5%	15,7 lx
10%	31,5 lx
30%	94,4 lx
50%	157 lx

Conditions:

Number of c-planes: 2

Lux at center: 315 lx

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

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Total lumen output:

3453 lm

Peak candela output:

9668 cd

PRODUCT NAME:

ECLPARIPMFC

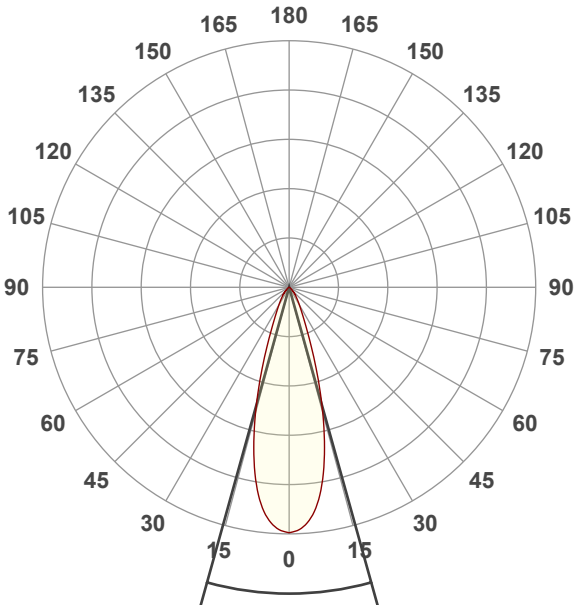
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Full On

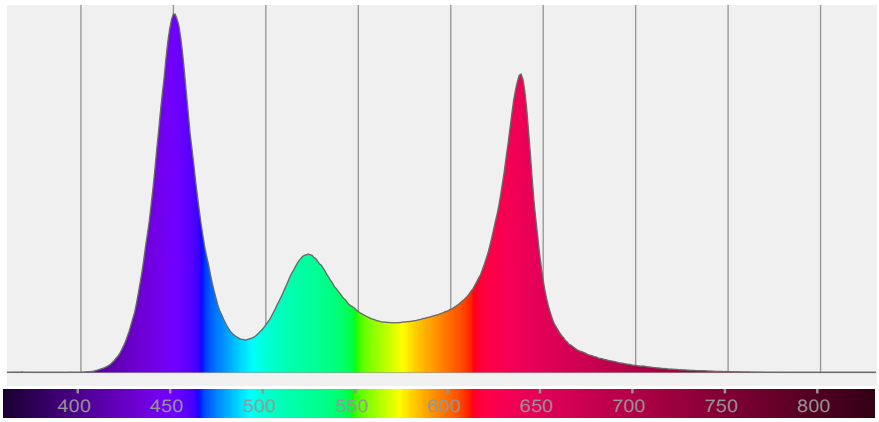
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:11:59



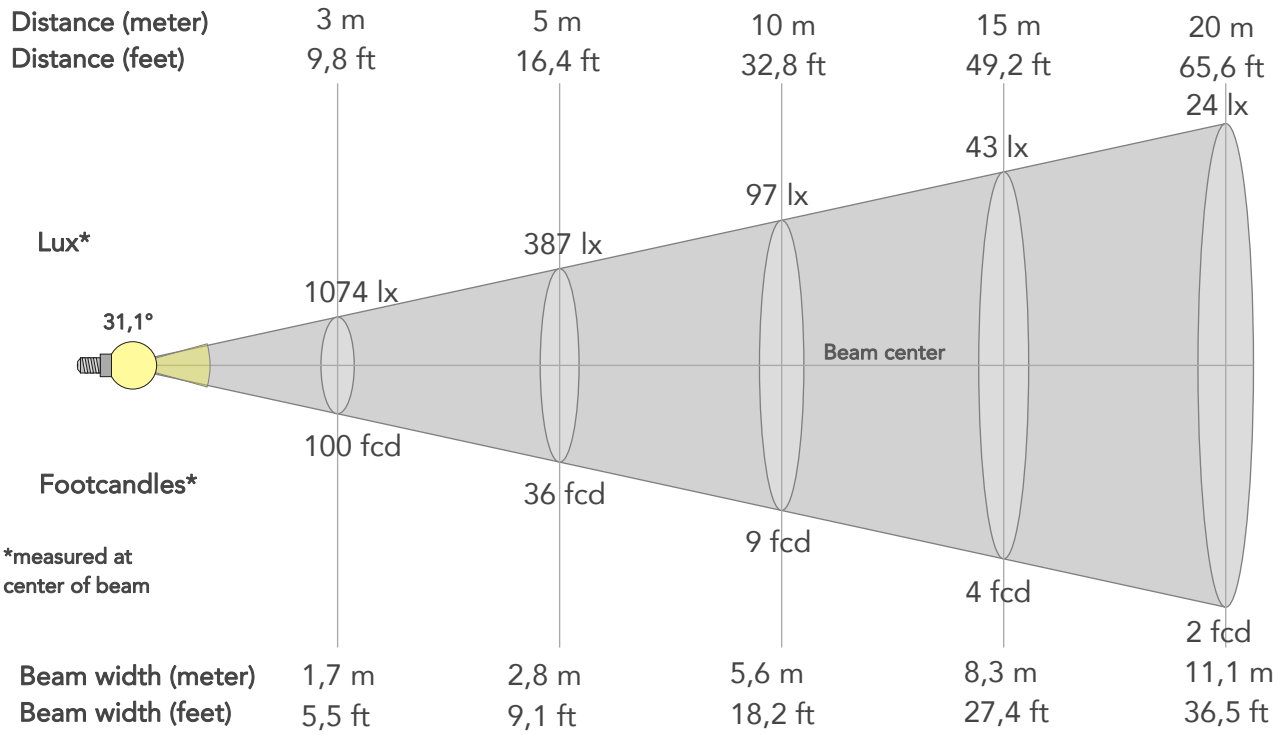
Beam angle 50%: 31,1°
Field angle 10%: 56,4°
Cut off angle 2.5%: 86,5°

Spectra



BEAM DETAILS

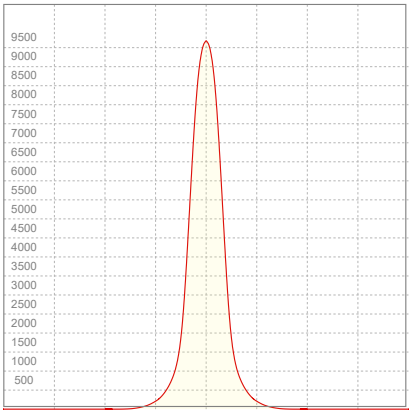
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,1°	56,4°	86,5°	99,4%	95,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	9668lx	2417lx	1074lx	604lx	387lx	172lx	97lx	43lx	24lx	15lx	11lx	6lx	4lx
Footcand.	898fcd	225fcd	100fcd	56fcd	36fcd	16fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,3m	11,1m	13,9m	16,7m	22,3m	27,8m
Beam wid.	1,8ft	3,7ft	5,5ft	7,3ft	9,1ft	13,7ft	18,2ft	27,4ft	36,5ft	45,6ft	54,7ft	73ft	91,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power Factor
226V	0,521A	110,9W	0,94

Effeciency
31lm/W

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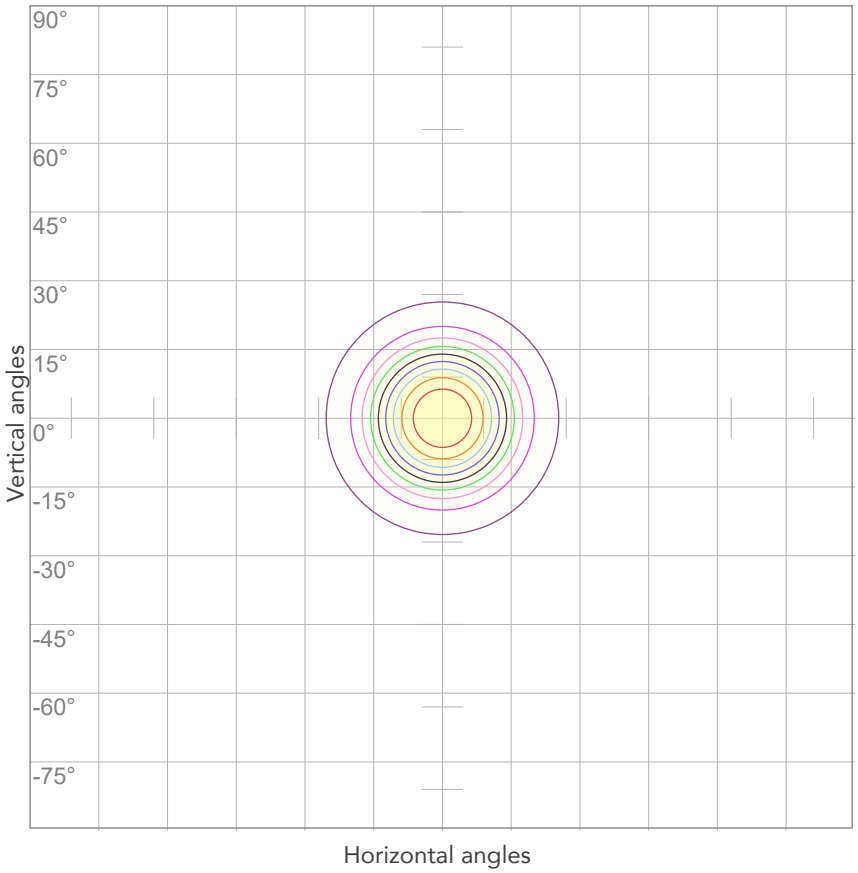
ISO DIAGRAMS

ISO CANDELA DIAGRAM



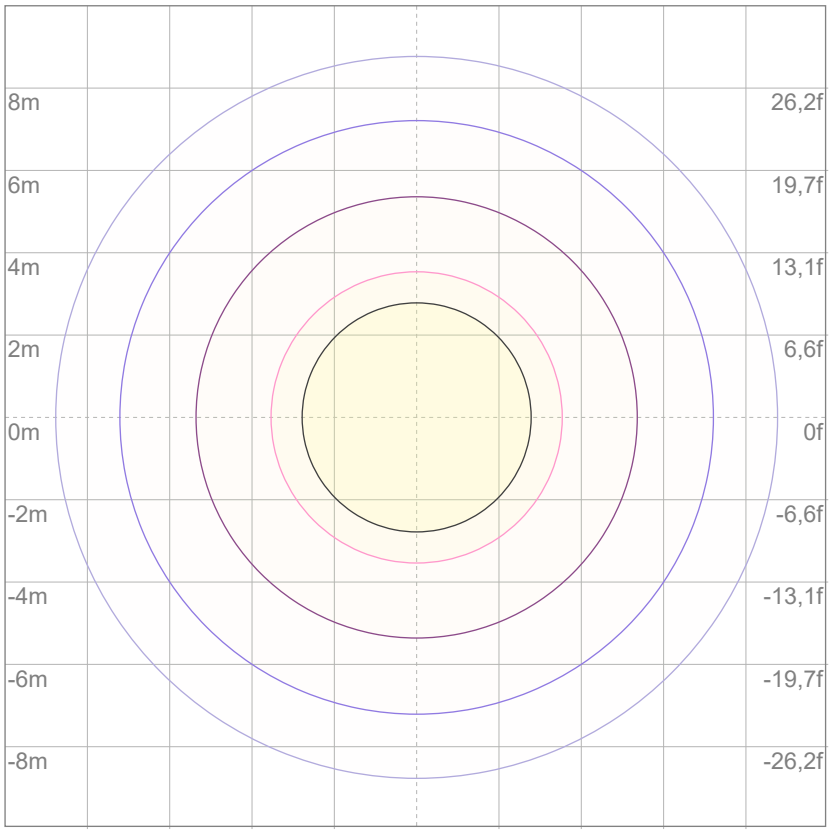
10%	967 cd
20%	1934 cd
30%	2900 cd
40%	3867 cd
50%	4834 cd
60%	5801 cd
70%	6768 cd
80%	7734 cd

Conditions:

Number of c-planes: 2

Candela at center: 9668 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,90 lx
5%	4,83 lx
10%	9,67 lx
30%	29,0 lx
50%	48,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 96,7 lx

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

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Total lumen output:

877 lm

Peak candela output:

2563 cd

PRODUCT NAME:

ECLPARIPMFC

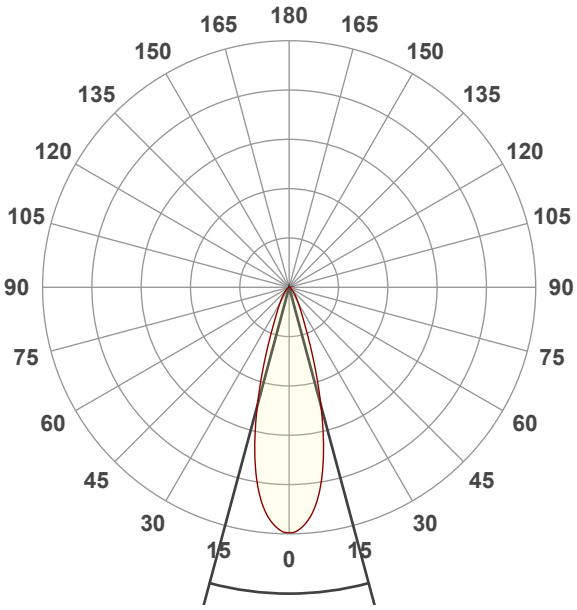
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Red

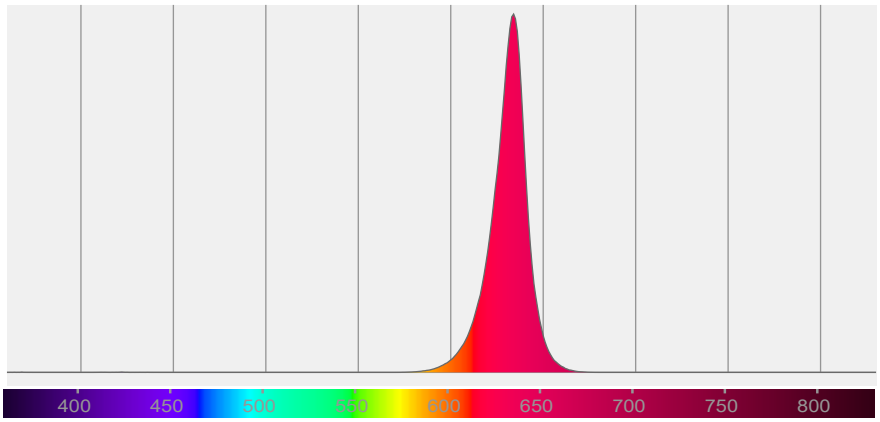
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:14:03



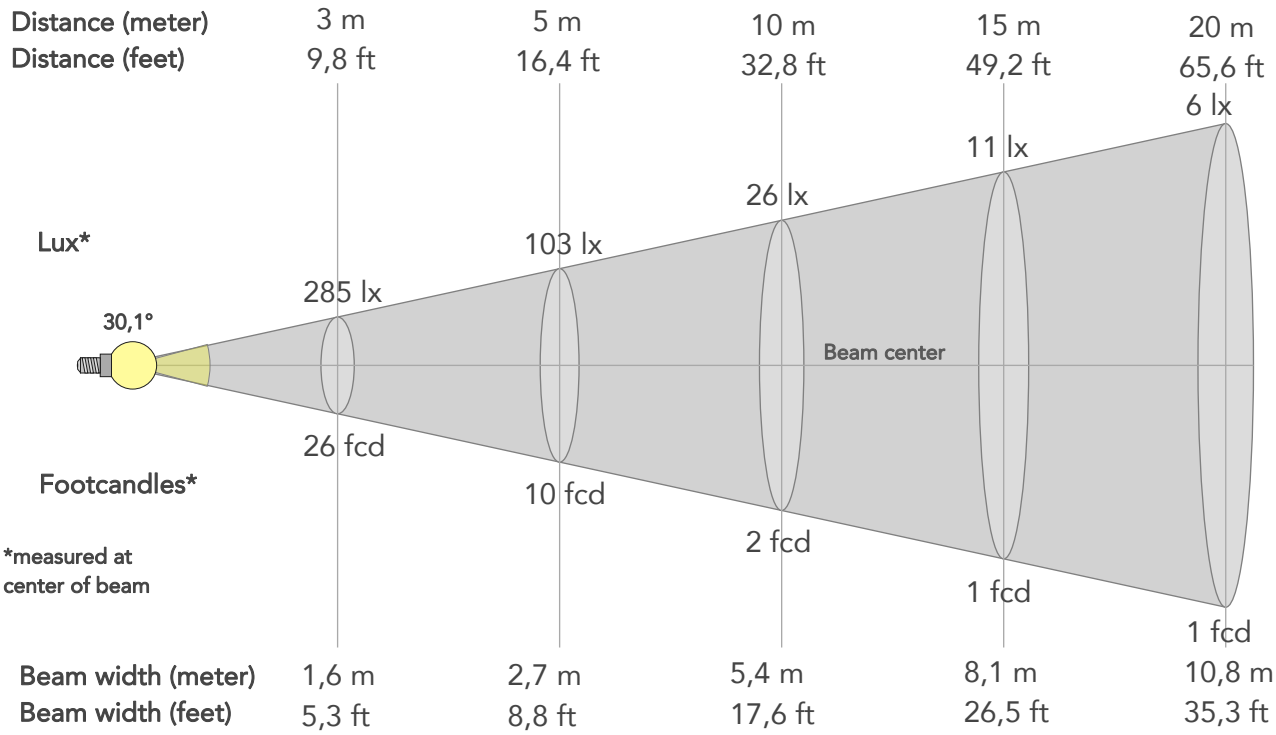
Beam angle 50%: 30,1°
Field angle 10%: 54,2°
Cut off angle 2.5%: 85,8°

Spectra



BEAM DETAILS

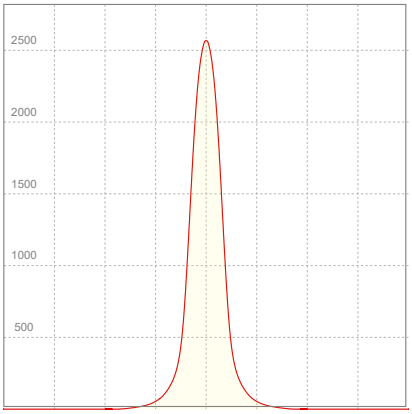
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,1°	54,2°	85,8°	98,6%	94,1%



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	2563lx	641lx	285lx	160lx	103lx	46lx	26lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	238fcd	60fcd	26fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4m	5,4m	8,1m	10,8m	13,4m	16,1m	21,5m	26,9m
Beam wid.	1,8ft	3,5ft	5,3ft	7ft	8,8ft	13,2ft	17,6ft	26,5ft	35,3ft	44,1ft	52,9ft	70,5ft	88,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,164A	30,2W	29lm/W

Power FC
0,82

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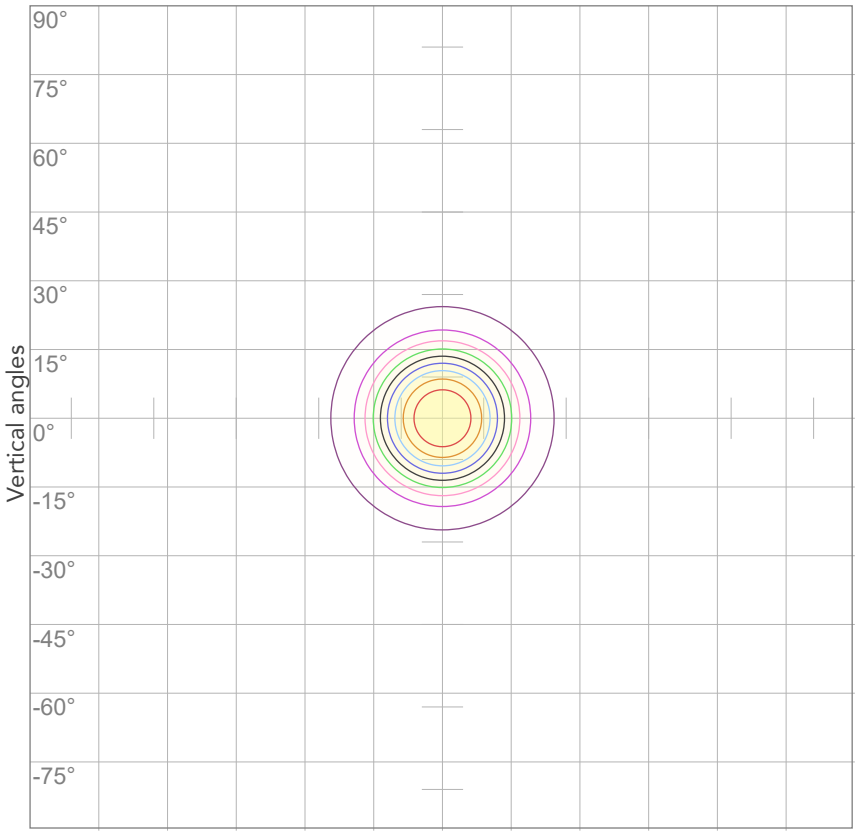
ISO DIAGRAMS

ISO CANDELA DIAGRAM



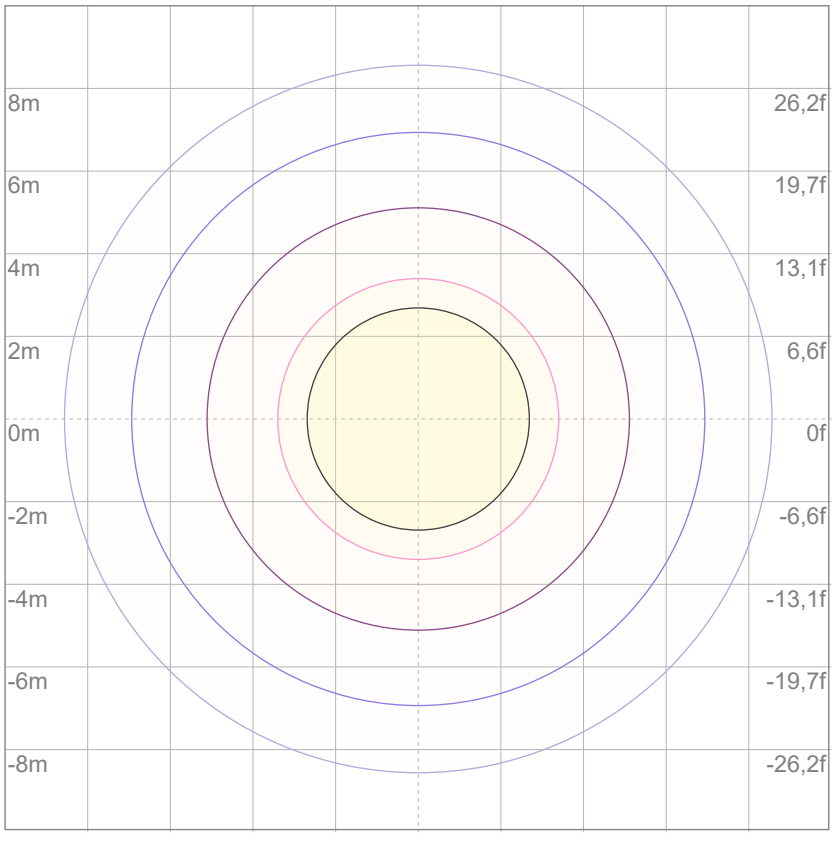
10%	256 cd
20%	513 cd
30%	769 cd
40%	1025 cd
50%	1282 cd
60%	1538 cd
70%	1794 cd
80%	2050 cd

Conditions:

Number of c-planes: 2

Candela at center: 2563 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,769 lx
5%	1,28 lx
10%	2,56 lx
30%	7,69 lx
50%	12,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 25,6 lx

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

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Total lumen output:

1168 lm

Peak candela output:

3250 cd

PRODUCT NAME:

ECLPARIPMFC

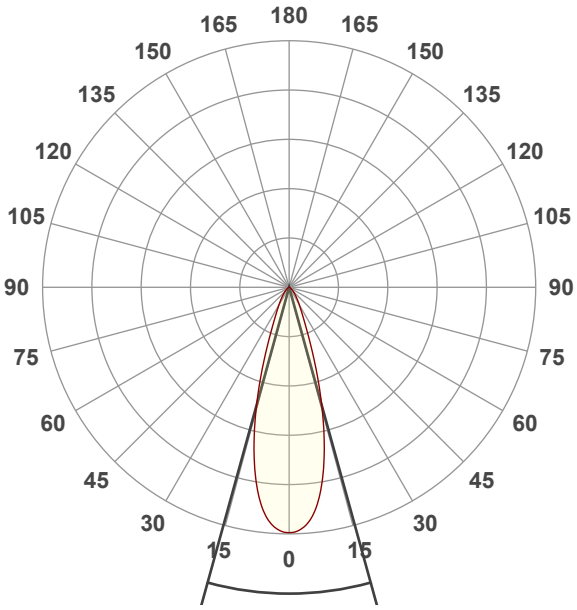
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Green

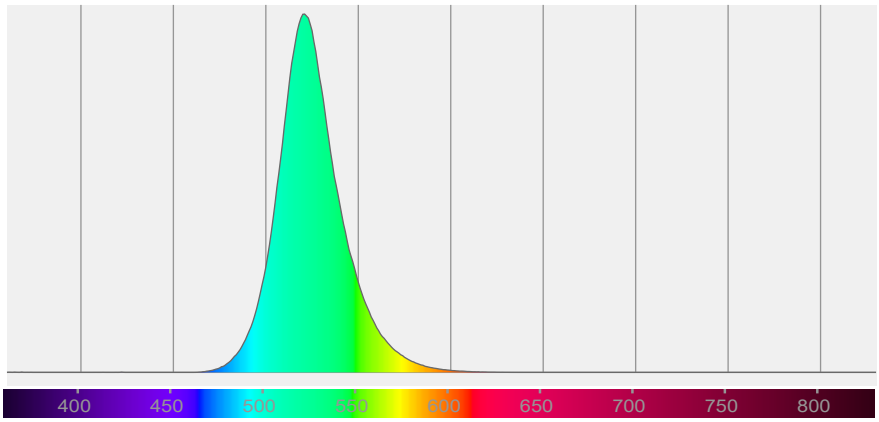
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:16:21



Beam angle 50%: 30,9°
Field angle 10%: 56°
Cut off angle 2.5%: 88,3°

Spectra



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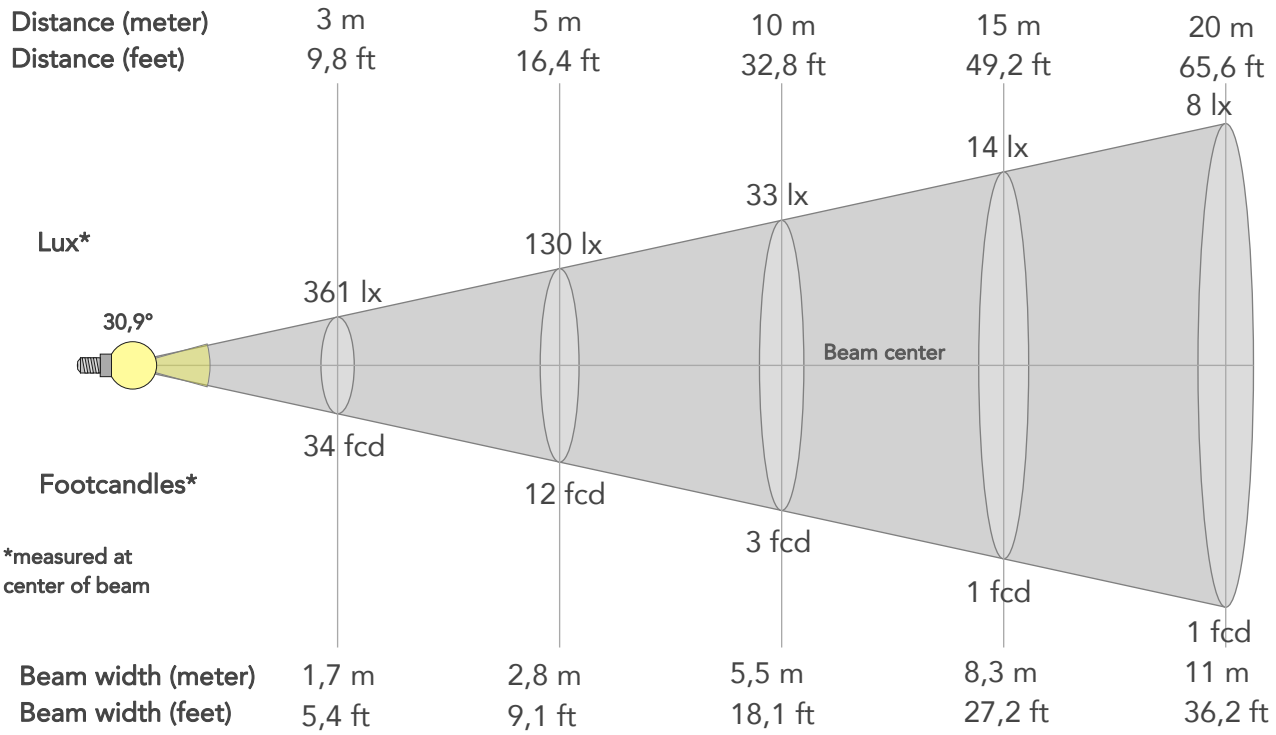
BEAM DETAILS

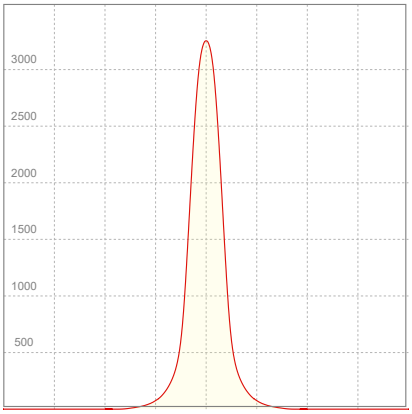
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,9°	56°	88,3°	98,9%	94,3%



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	3250lx	813lx	361lx	203lx	130lx	58lx	33lx	14lx	8lx	5lx	4lx	2lx	1lx
Footcand.	302fcd	75fcd	34fcd	19fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,1m	5,5m	8,3m	11m	13,8m	16,6m	22,1m	27,6m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9,1ft	13,6ft	18,1ft	27,2ft	36,2ft	45,3ft	54,3ft	72,5ft	90,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,167A	31,0W	38lm/W

Power FC
0,82

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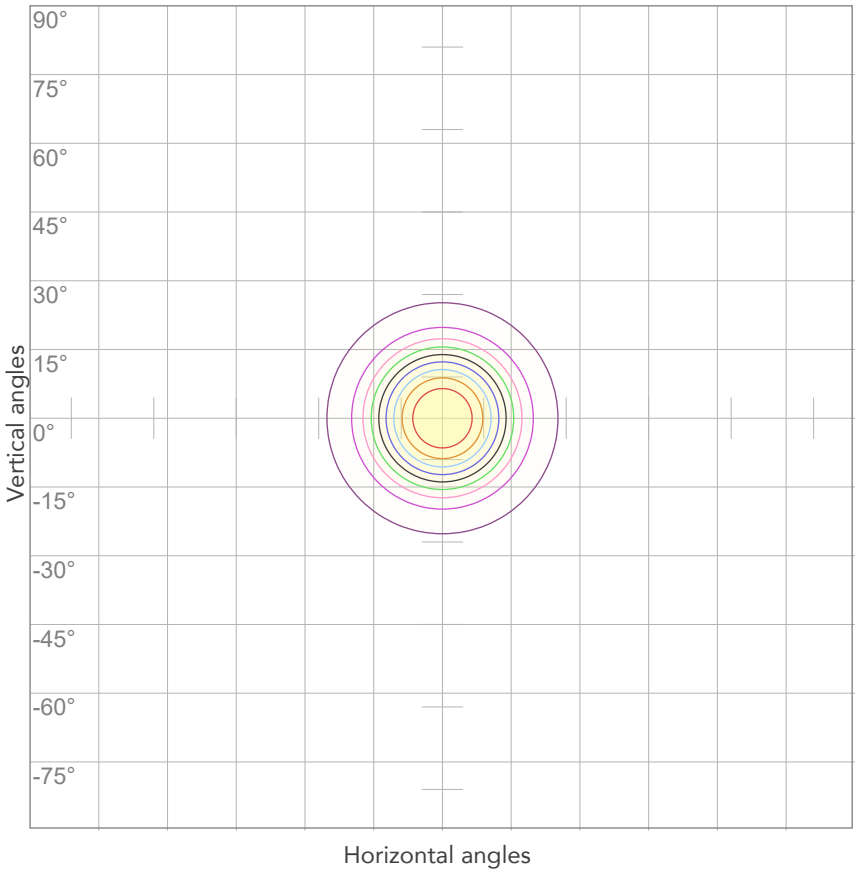
ISO DIAGRAMS

ISO CANDELA DIAGRAM



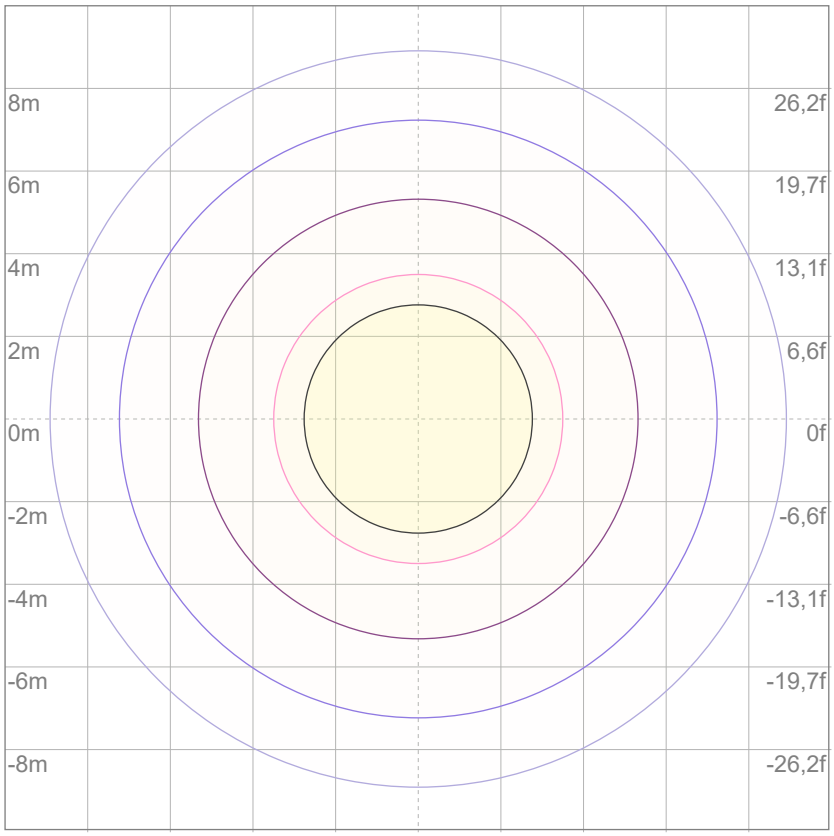
10%	325 cd
20%	650 cd
30%	975 cd
40%	1300 cd
50%	1625 cd
60%	1950 cd
70%	2275 cd
80%	2600 cd

Conditions:

Number of c-planes: 2

Candela at center: 3250 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,975 lx
5%	1,63 lx
10%	3,25 lx
30%	9,75 lx
50%	16,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 32,5 lx

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

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Total lumen output:

226 lm

Peak candela output:

596 cd

PRODUCT NAME:

ECLPARIPMFC

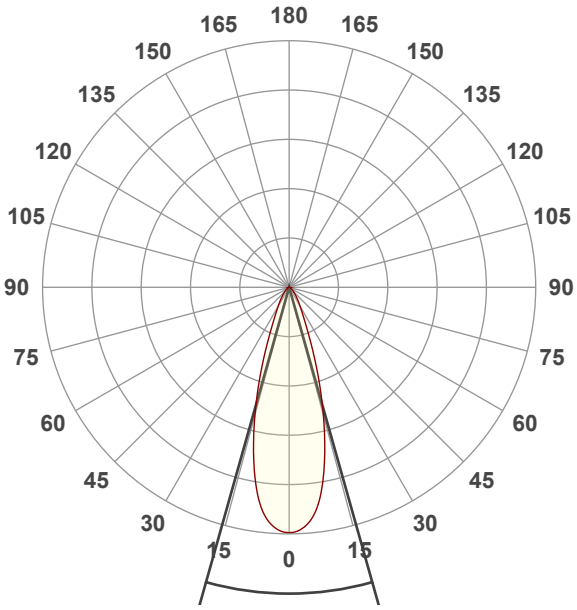
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
Blue

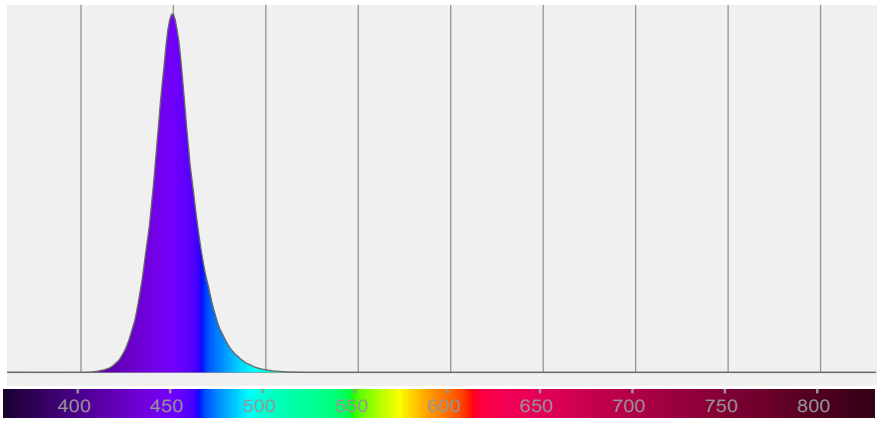
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:17:51



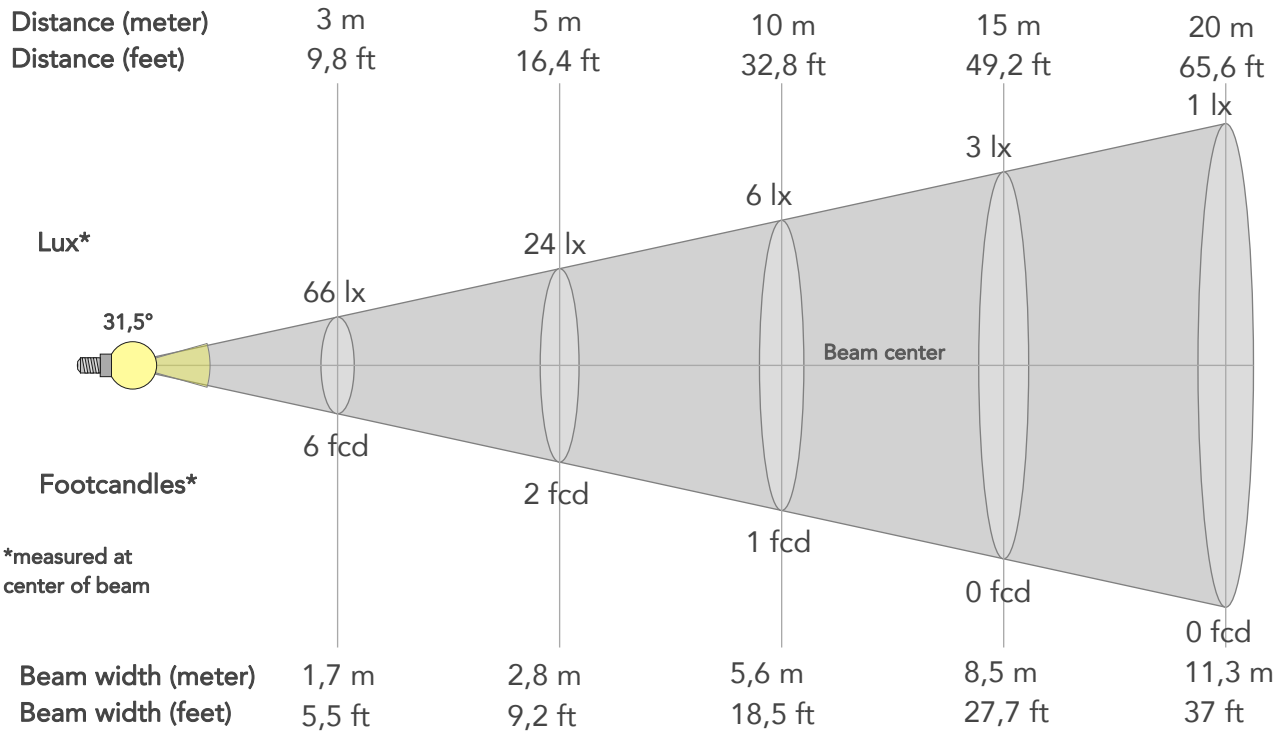
Beam angle 50%: 31,5°
Field angle 10%: 57,7°
Cut off angle 2.5%: 90,5°

Spectra



BEAM DETAILS

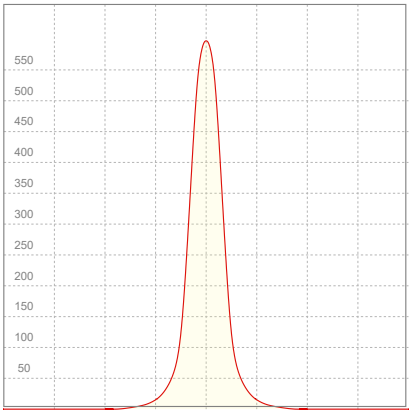
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,5°	57,7°	90,5°	98,3%	93,3%



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	596lx	149lx	66lx	37lx	24lx	11lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	55fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,6m	8,5m	11,3m	14,1m	16,9m	22,5m	28,2m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,2ft	13,9ft	18,5ft	27,7ft	37ft	46,2ft	55,5ft	74ft	92,5ft

LINEAR DISTRIBUTION DIAGRAM



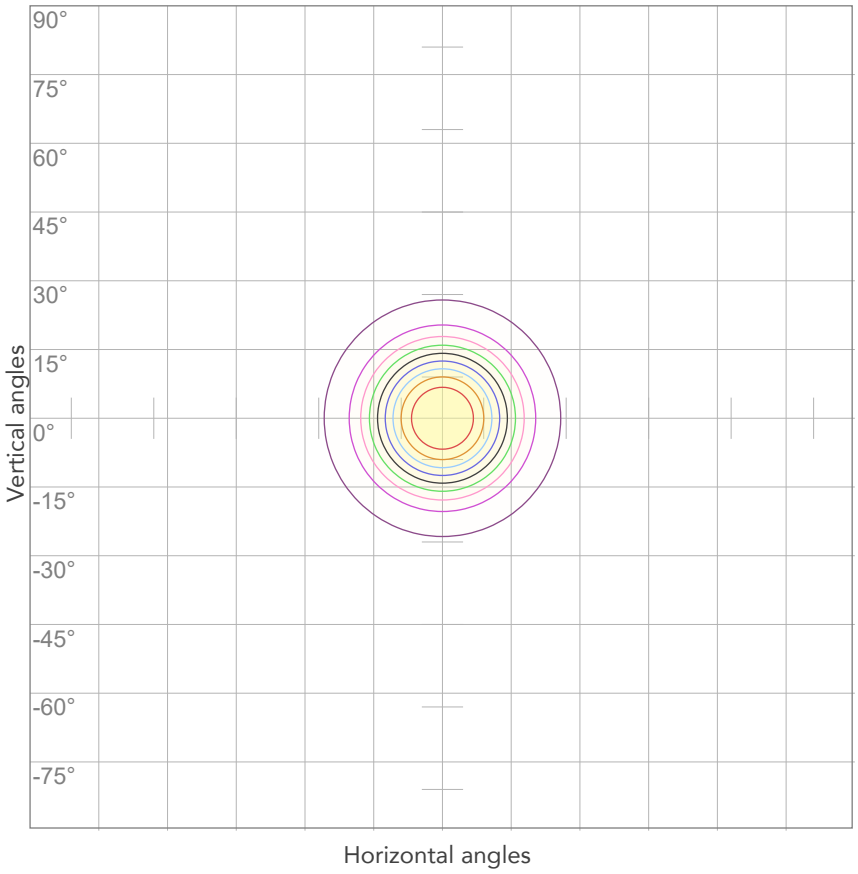
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,166A	30,7W	7lm/W

Power FC
0,82

ISO DIAGRAMS

ISO CANDELA DIAGRAM



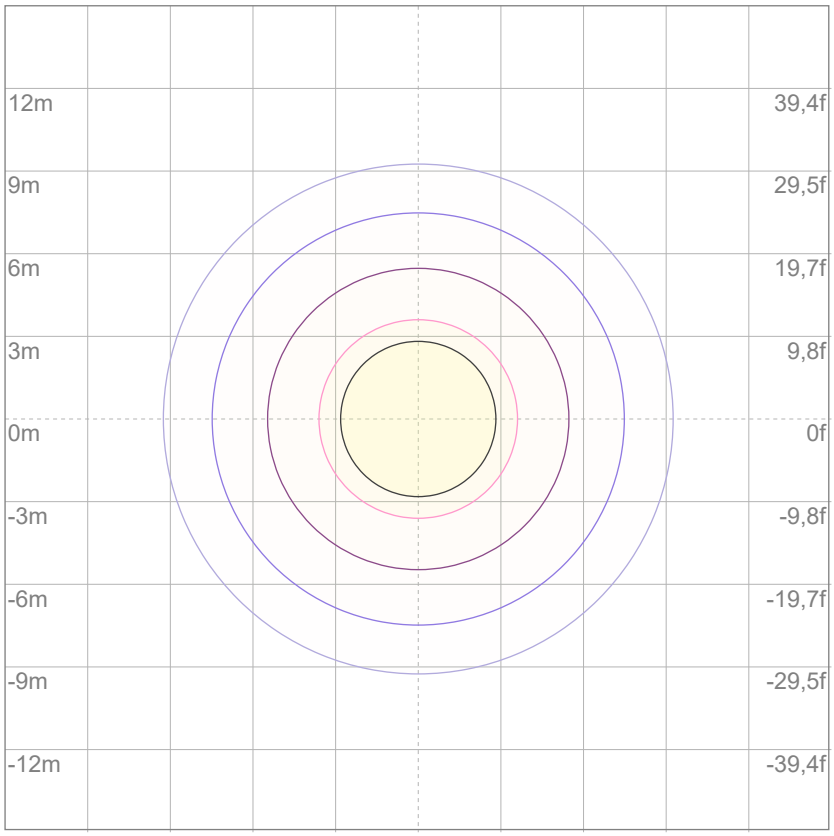
10%	60 cd
20%	119 cd
30%	179 cd
40%	239 cd
50%	298 cd
60%	358 cd
70%	418 cd
80%	477 cd

Conditions:

Number of c-planes: 2

Candela at center: 596 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,179 lx
5%	0,298 lx
10%	0,596 lx
30%	1,79 lx
50%	2,98 lx

Conditions:

Number of c-planes: 2

Lux at center: 5,96 lx

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

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Total lumen output:

1847 lm

Peak candela output:

4929 cd

PRODUCT NAME:

ECLPARIPMFC

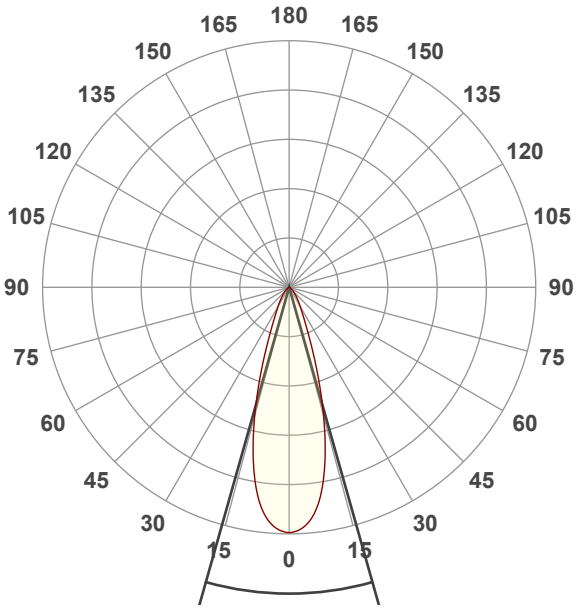
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
White

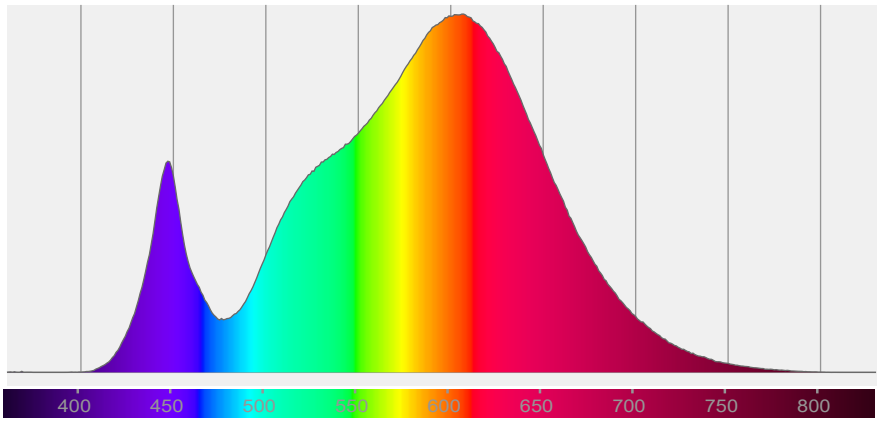
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:19:27



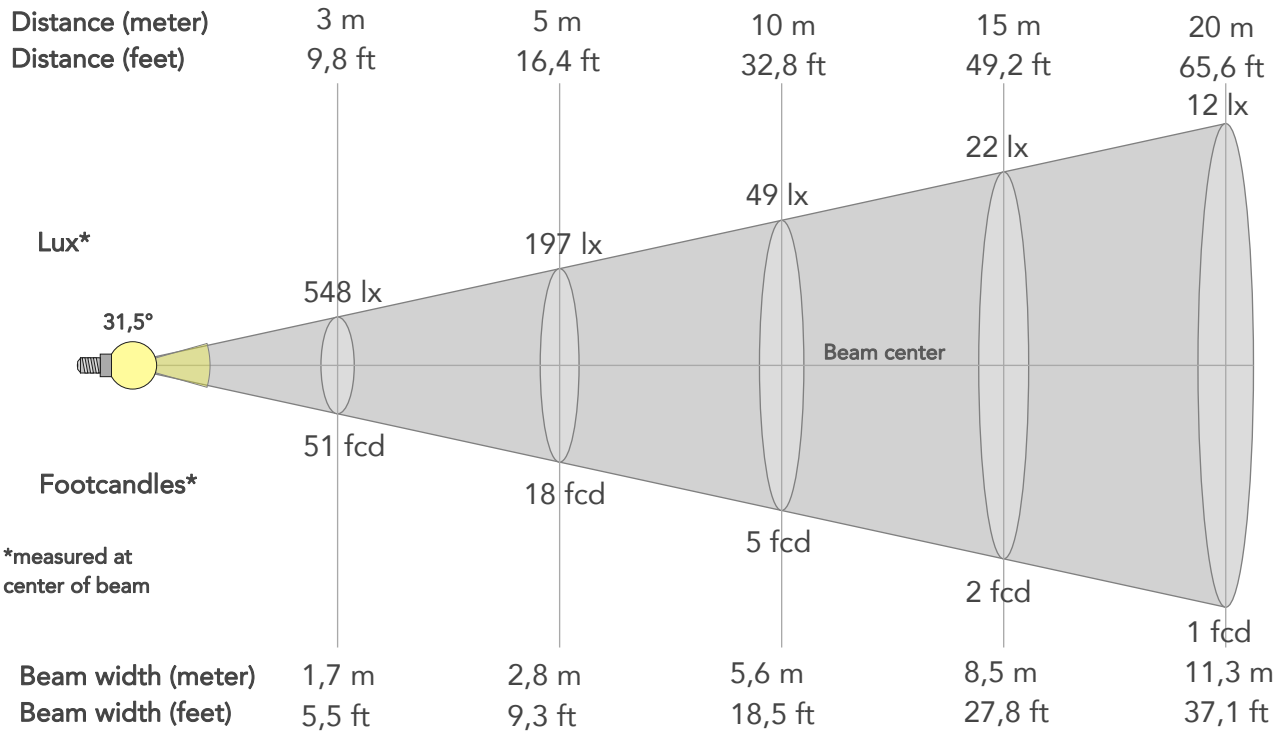
Beam angle 50%: 31,5°
Field angle 10%: 57,7°
Cut off angle 2.5%: 89,5°

Spectra



BEAM DETAILS

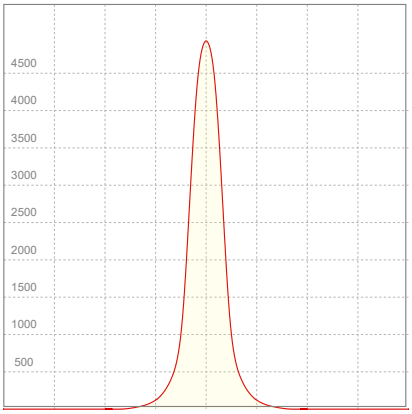
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,5°	57,7°	89,5°	99,0%	94,2%



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	4929lx	1232lx	548lx	308lx	197lx	88lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	458fcd	114fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,6m	8,5m	11,3m	14,1m	16,9m	22,6m	28,2m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,5ft	27,8ft	37,1ft	46,3ft	55,6ft	74,1ft	92,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,215A	42,0W	44lm/W

Power FC
0,86

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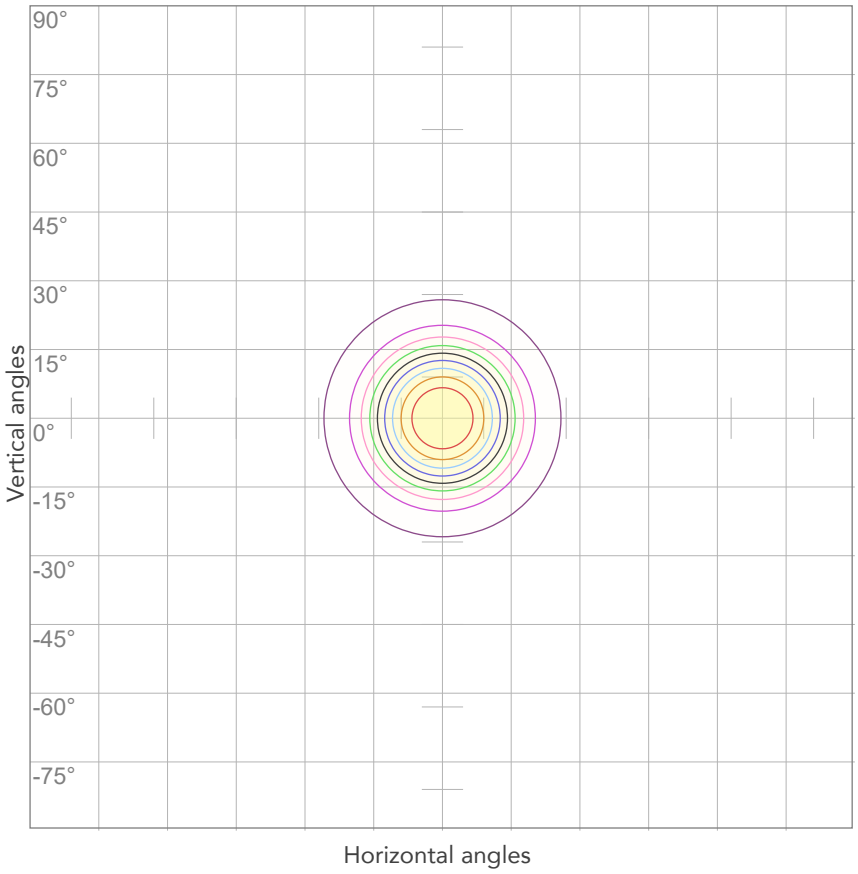
ISO DIAGRAMS

ISO CANDELA DIAGRAM



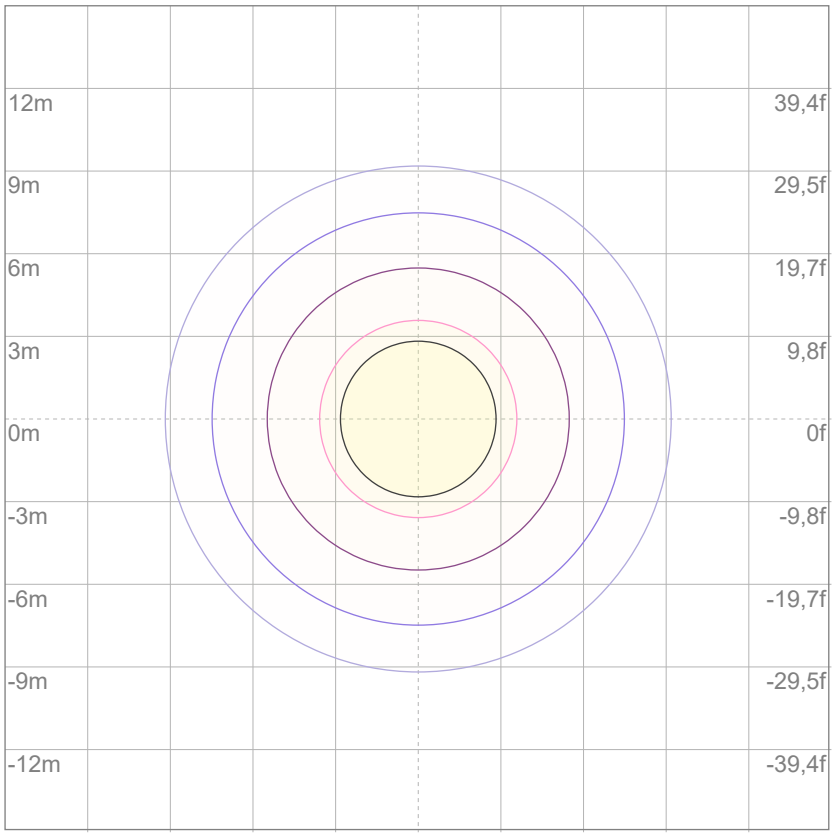
10%	493 cd
20%	986 cd
30%	1479 cd
40%	1972 cd
50%	2464 cd
60%	2957 cd
70%	3450 cd
80%	3943 cd

Conditions:

Number of c-planes: 2

Candela at center: 4929 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 2

Lux at center: 49,3 lx

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

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Total lumen output:

2330 lm

Peak candela output:

6425 cd

Light quality:

CRI: 89,4

Color temperature:

2785 K

PRODUCT NAME:

ECLPARIPMFC

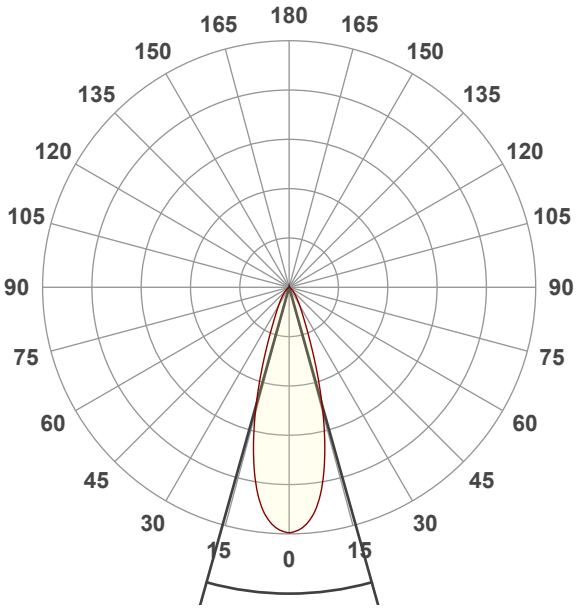
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
2800K

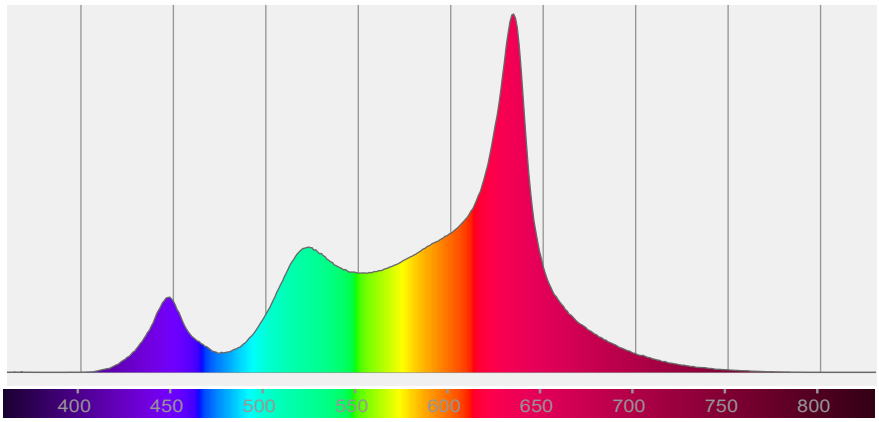
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:23:33



Beam angle 50%: 31,3°
Field angle 10%: 56,9°
Cut off angle 2.5%: 87,1°

Spectra



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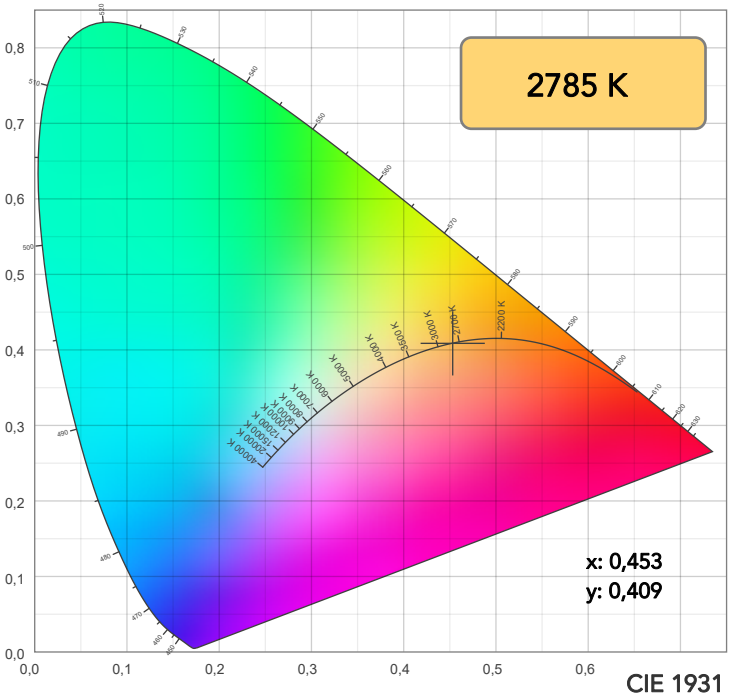
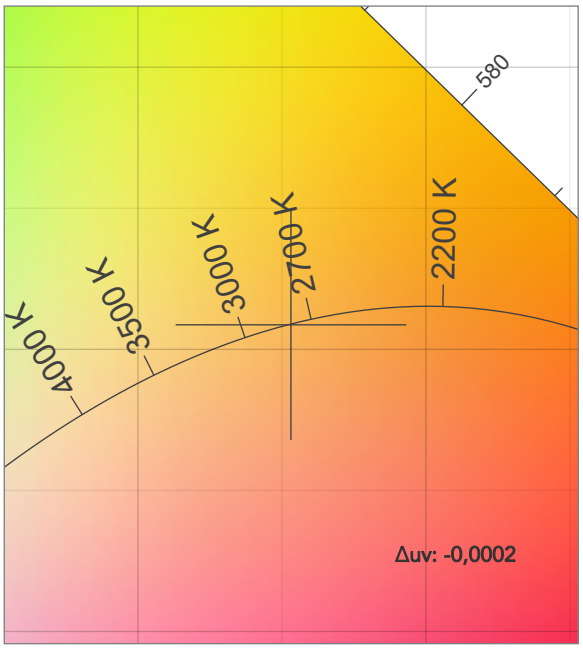
COLOR DETAILS

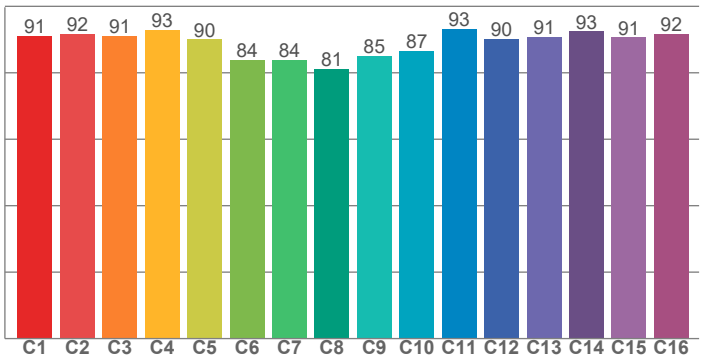


CIE 1931

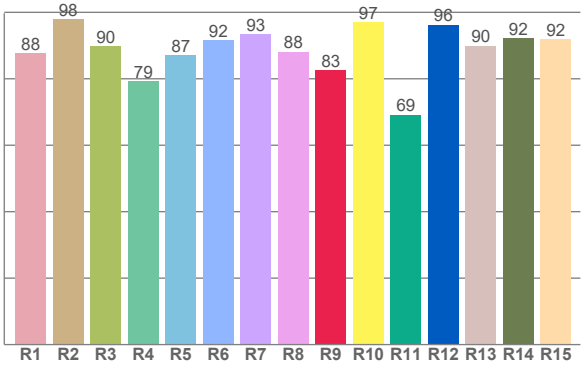


CIE 1931 ZOOM

TM30: 89,7



CRI: 89,4 (R1-R8)



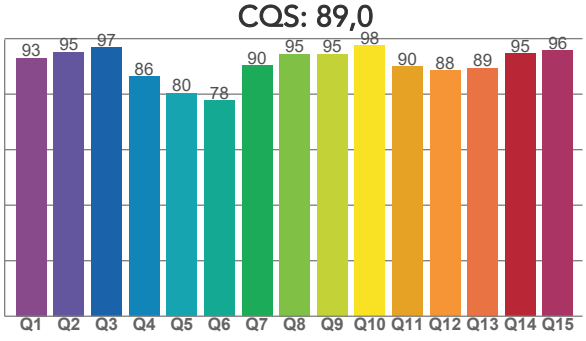
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
87,7	98,0	89,7	79,2	87,1	91,6	93,4	88,1	82,7	97,1	69,1	96,3	89,9	92,1	91,9

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
91,2	91,7	91,1	92,9	90,1	83,9	83,9	81,3	85,0	86,6	93,3	90,3	90,7	92,5	90,7	91,8

CQS: 89,0



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	95,3	96,8	86,4	80,3	77,7	90,3	94,5	94,5	97,5	90,0	88,5	89,4	94,6	95,6

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2785 K	89,4	82,7	89,7	108,3	89,0	74	0,453	0,409	-0,0002

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TM30 DETAILS

PROLiGHTS

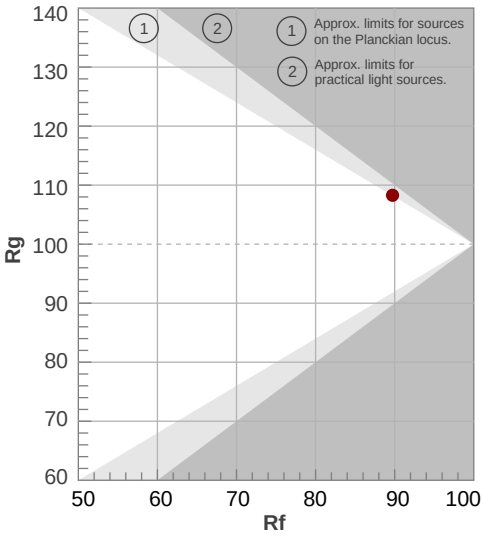
Rf 89,7

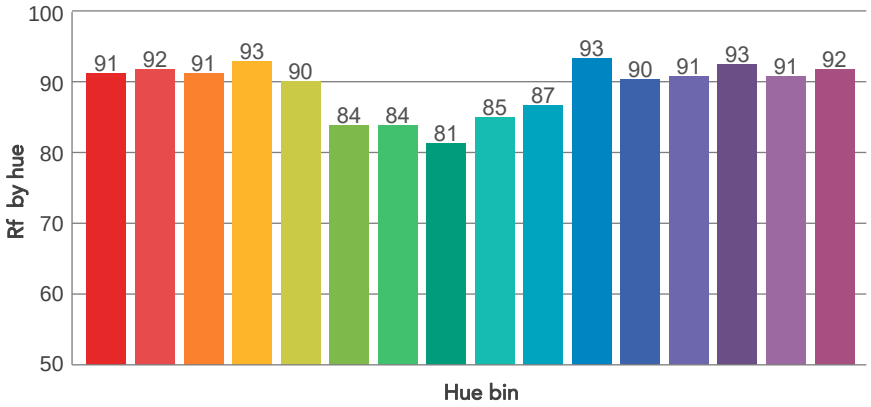
Fidelity index Rf

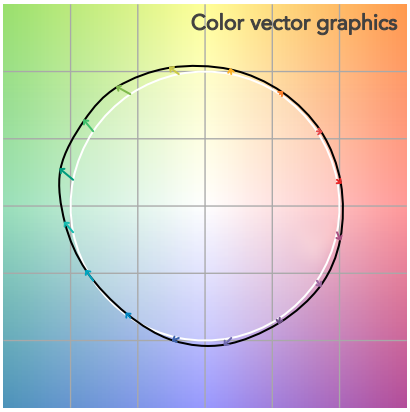
Rg 108,3

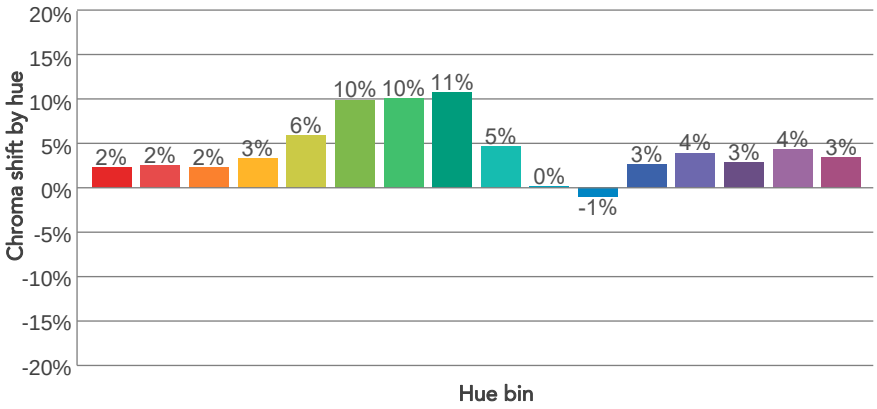
Gammut index

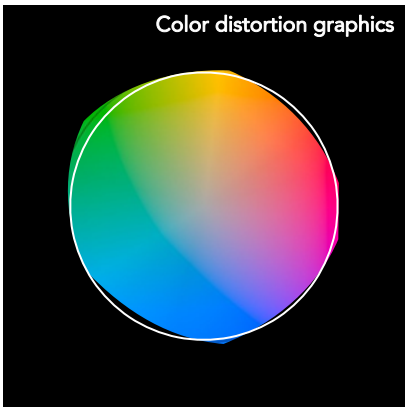
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	2%	-3%
2	92	2%	-2%
3	91	2%	-1%
4	93	3%	1%
5	90	6%	5%
6	84	10%	5%
7	84	10%	-3%
8	81	11%	-6%
9	85	5%	-8%
10	87	0%	-9%
11	93	-1%	-4%
12	90	3%	-4%
13	91	4%	-6%
14	93	3%	-3%
15	91	4%	-2%
16	92	3%	-5%

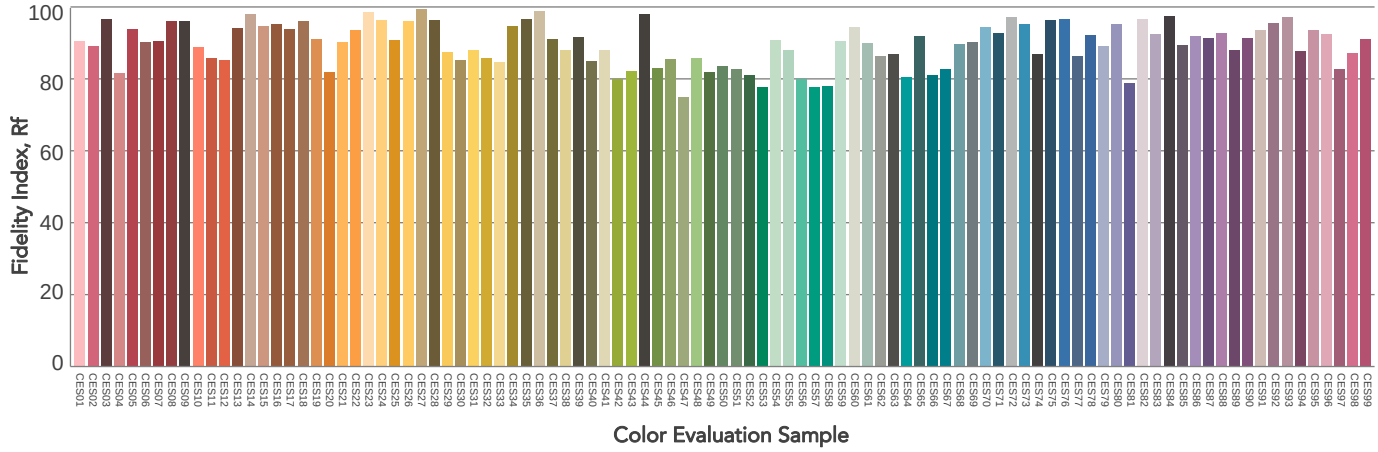












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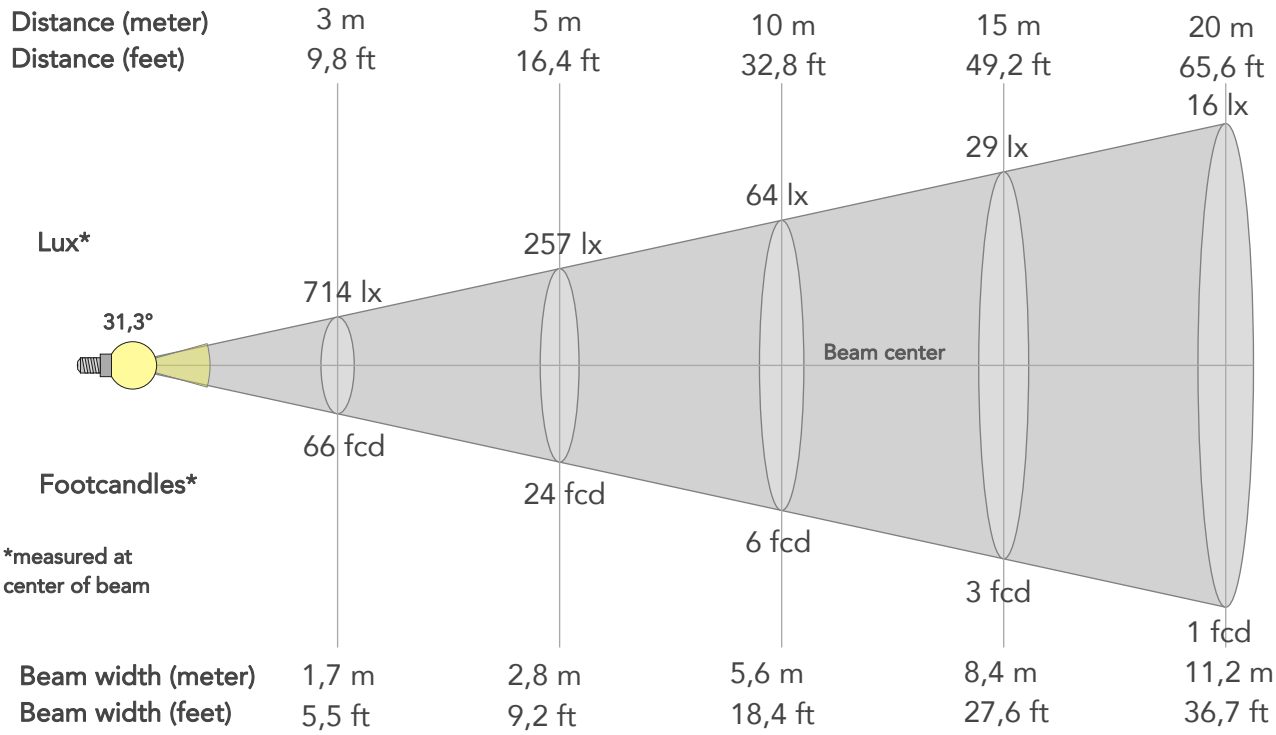
BEAM DETAILS

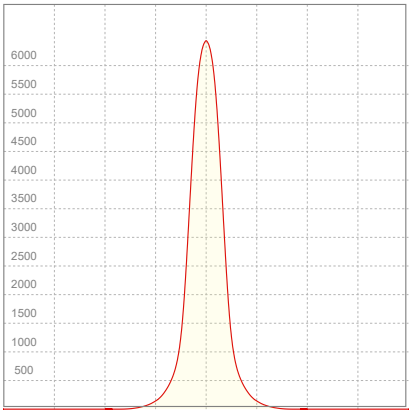
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,3°	56,9°	87,1°	99,4%	95,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	6425lx	1606lx	714lx	402lx	257lx	114lx	64lx	29lx	16lx	10lx	7lx	4lx	3lx
Footcand.	597fcd	149fcd	66fcd	37fcd	24fcd	11fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,4m	28m
Beam wid.	1,8ft	3,7ft	5,5ft	7,3ft	9,2ft	13,8ft	18,4ft	27,6ft	36,7ft	45,9ft	55,1ft	73,5ft	91,8ft

LINEAR DISTRIBUTION DIAGRAM



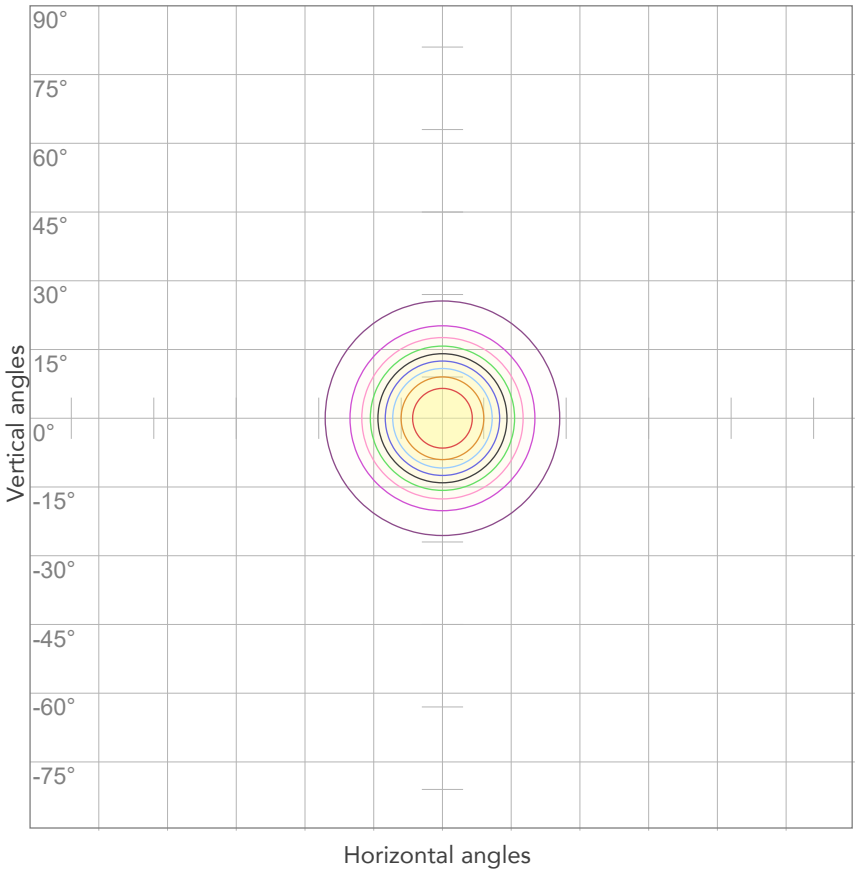
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power Factor
226V	0,274A	55,4W	0,89

Effeciency
42lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



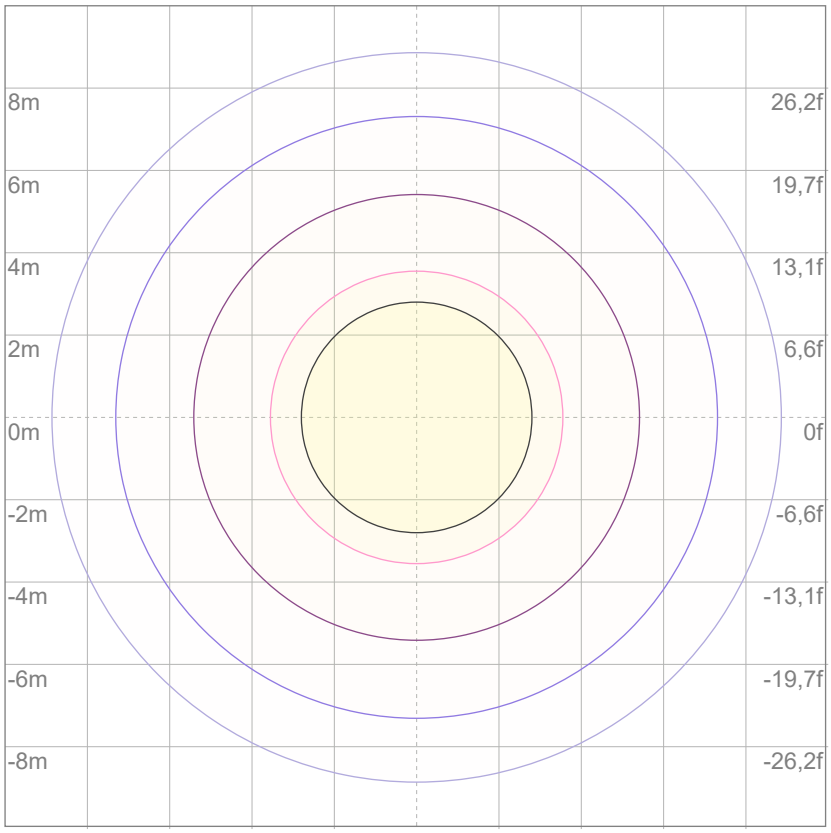
10%	642 cd
20%	1285 cd
30%	1927 cd
40%	2570 cd
50%	3212 cd
60%	3855 cd
70%	4497 cd
80%	5140 cd

Conditions:

Number of c-planes: 2

Candela at center: 6425 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,93 lx
5%	3,21 lx
10%	6,42 lx
30%	19,3 lx
50%	32,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 64,2 lx

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

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Total lumen output:

2301 lm

Peak candela output:

6318 cd

Light quality:

CRI: 91,8

Color temperature:

3217 K

PRODUCT NAME:

ECLPARIPMFC

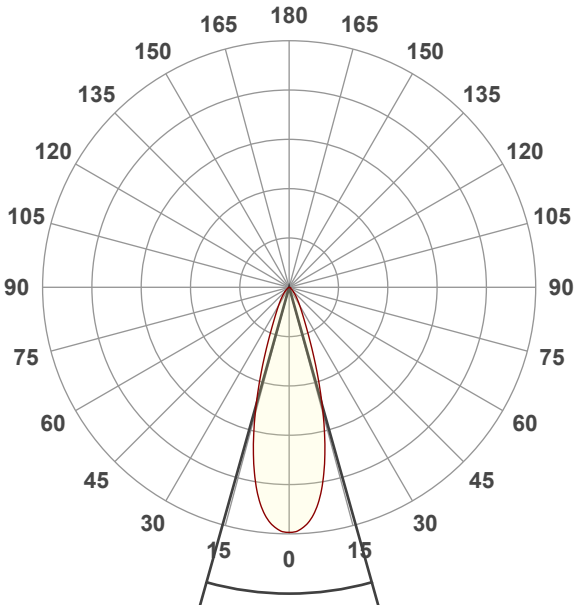
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
3200K

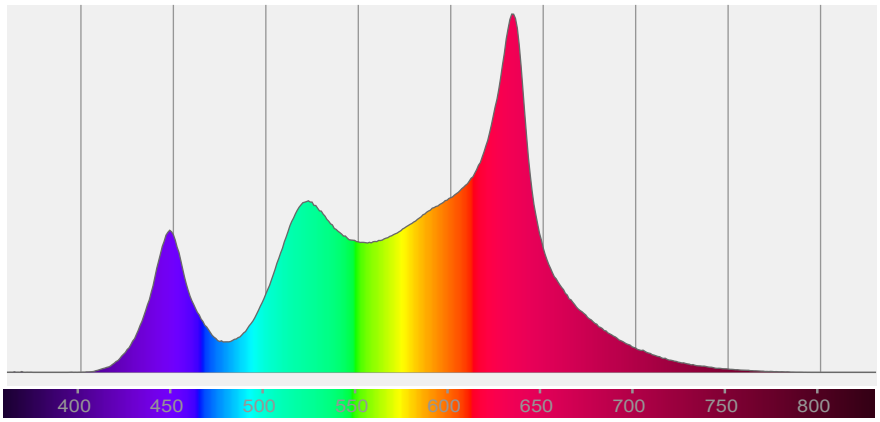
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:25:24



Beam angle 50%: 31,3°
Field angle 10%: 56,9°
Cut off angle 2.5%: 87,6°

Spectra



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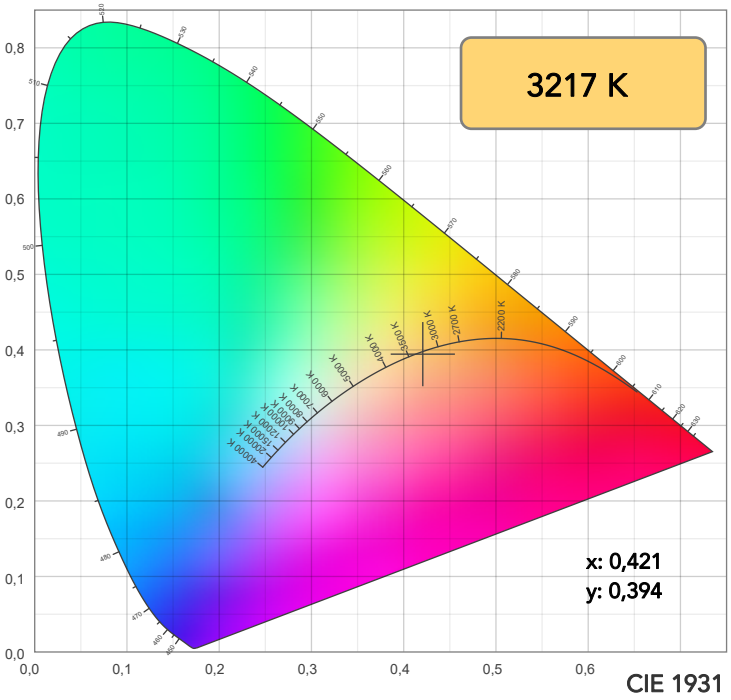
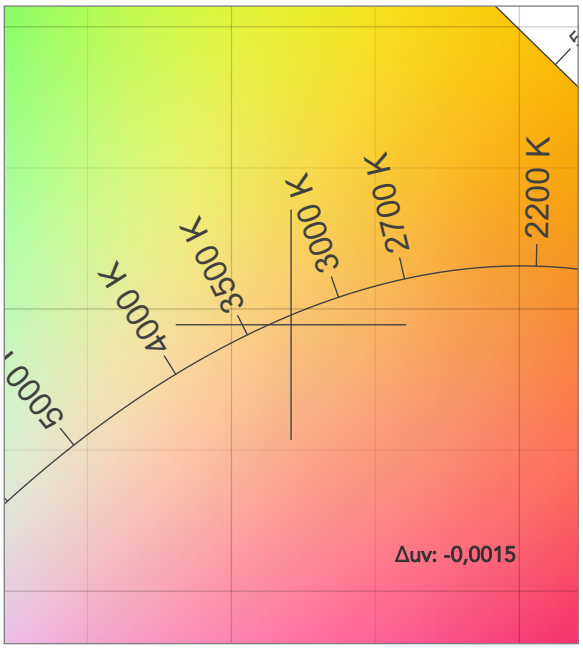
COLOR DETAILS

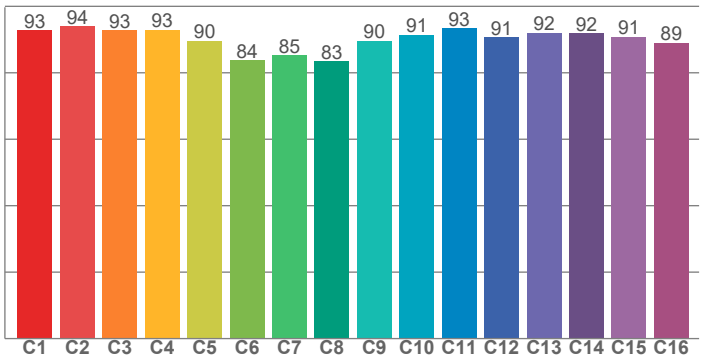


CIE 1931

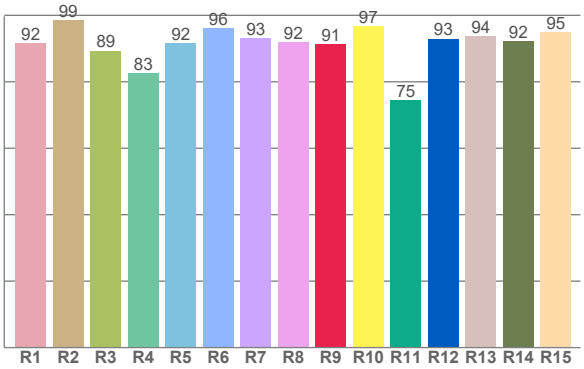


CIE 1931 ZOOM

TM30: 90,7



CRI: 91,8 (R1-R8)



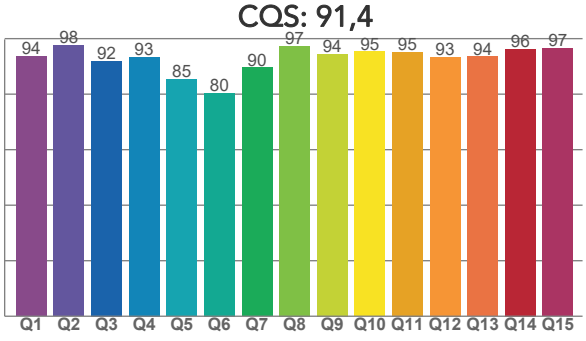
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,5	98,6	89,3	82,6	91,5	96,0	93,1	92,0	91,4	96,7	74,5	93,0	93,7	92,3	94,9

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
92,8	93,9	92,8	92,9	89,5	83,8	85,2	83,4	89,6	91,4	93,4	90,7	92,0	91,9	90,7	89,0

CQS: 91,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,7	97,6	91,9	93,4	85,3	80,5	89,5	97,4	94,5	95,3	95,2	93,4	93,6	96,2	96,5

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3217 K	91,8	91,4	90,7	108,2	91,4	78	0,421	0,394	-0,0015

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TM30 DETAILS

PROLiGHTS

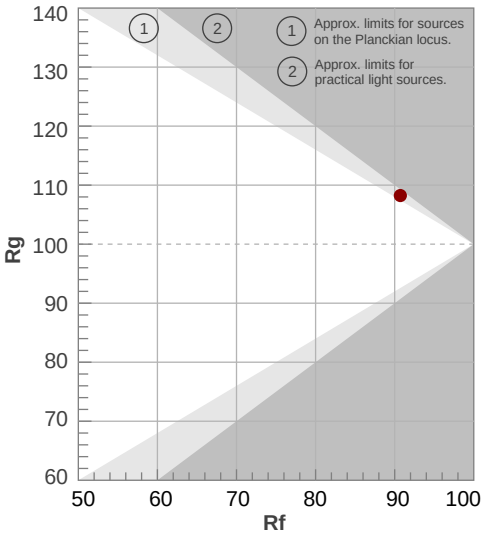
Rf 90,7

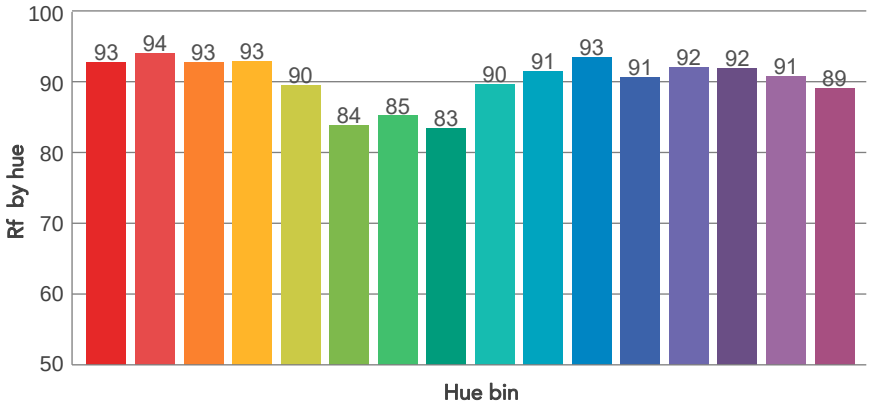
Fidelity index Rf

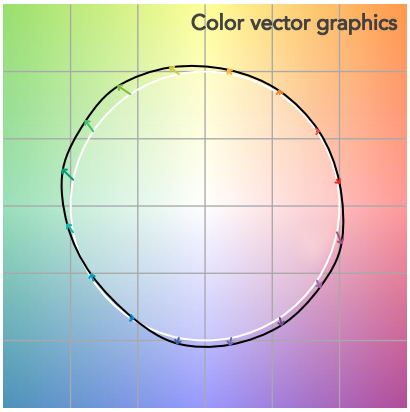
Rg 108,2

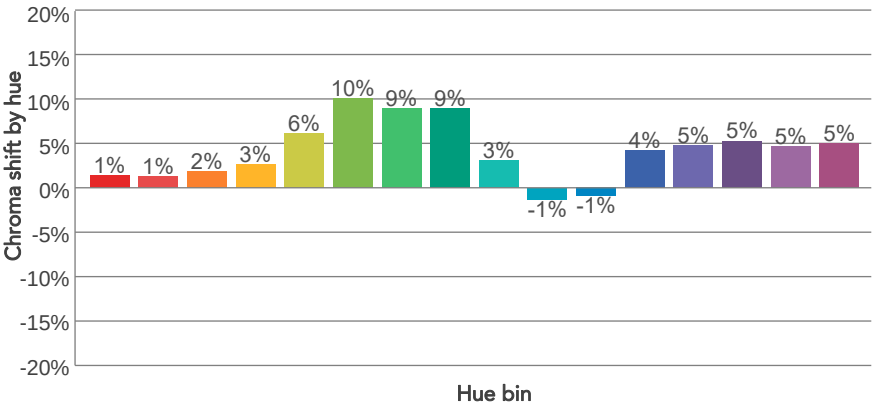
Gammut index

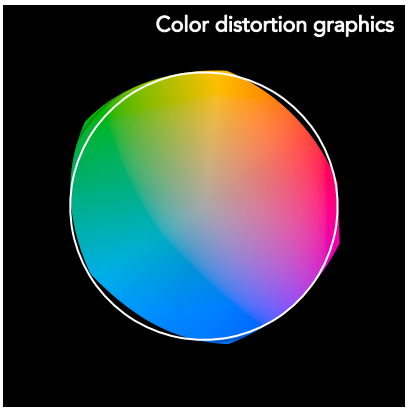
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	1%	-3%
2	94	1%	-1%
3	93	2%	2%
4	93	3%	3%
5	90	6%	5%
6	84	10%	4%
7	85	9%	-3%
8	83	9%	-6%
9	90	3%	-6%
10	91	-1%	-5%
11	93	-1%	2%
12	91	4%	-1%
13	92	5%	-2%
14	92	5%	-2%
15	91	5%	-2%
16	89	5%	-7%

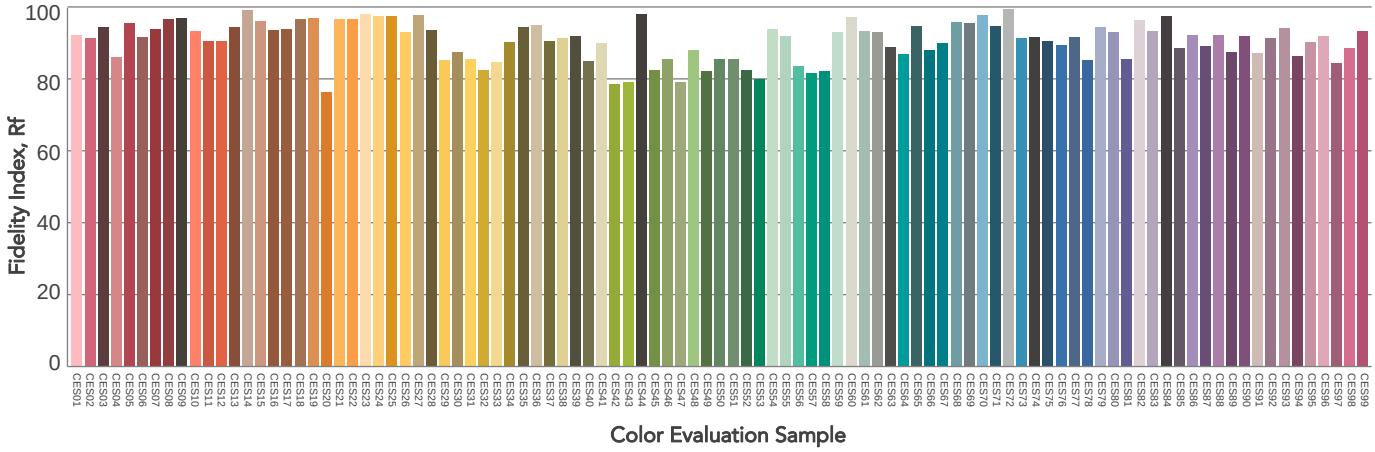












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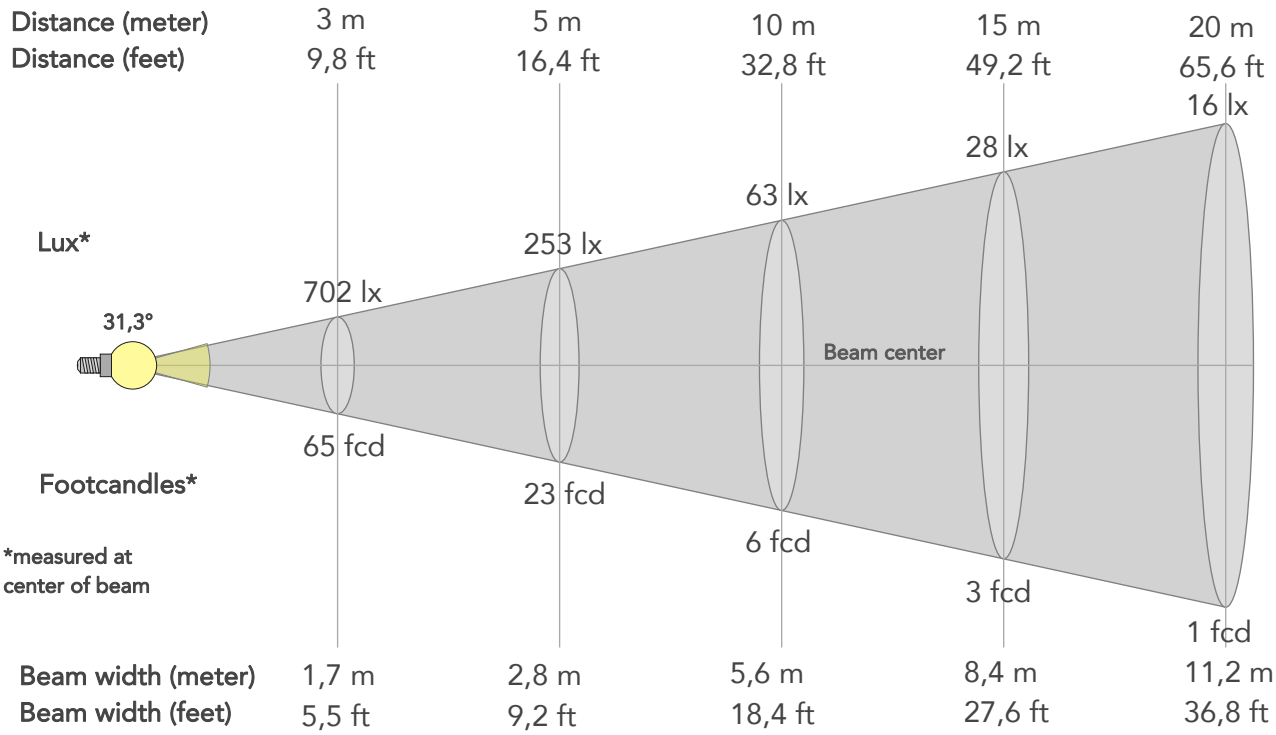
BEAM DETAILS

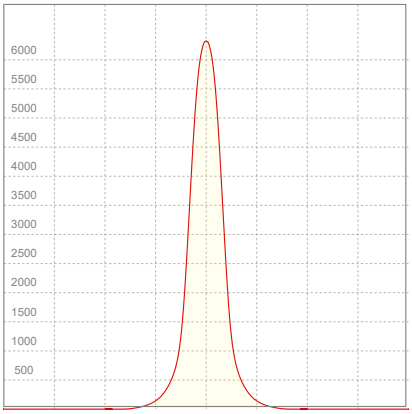
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,3°	56,9°	87,6°	99,4%	95,2%



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	6318lx	1580lx	702lx	395lx	253lx	112lx	63lx	28lx	16lx	10lx	7lx	4lx	3lx
Footcand.	587fcd	147fcd	65fcd	37fcd	23fcd	10fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,4m	28m
Beam wid.	1,8ft	3,7ft	5,5ft	7,3ft	9,2ft	13,8ft	18,4ft	27,6ft	36,8ft	46ft	55,1ft	73,5ft	91,9ft

LINEAR DISTRIBUTION DIAGRAM



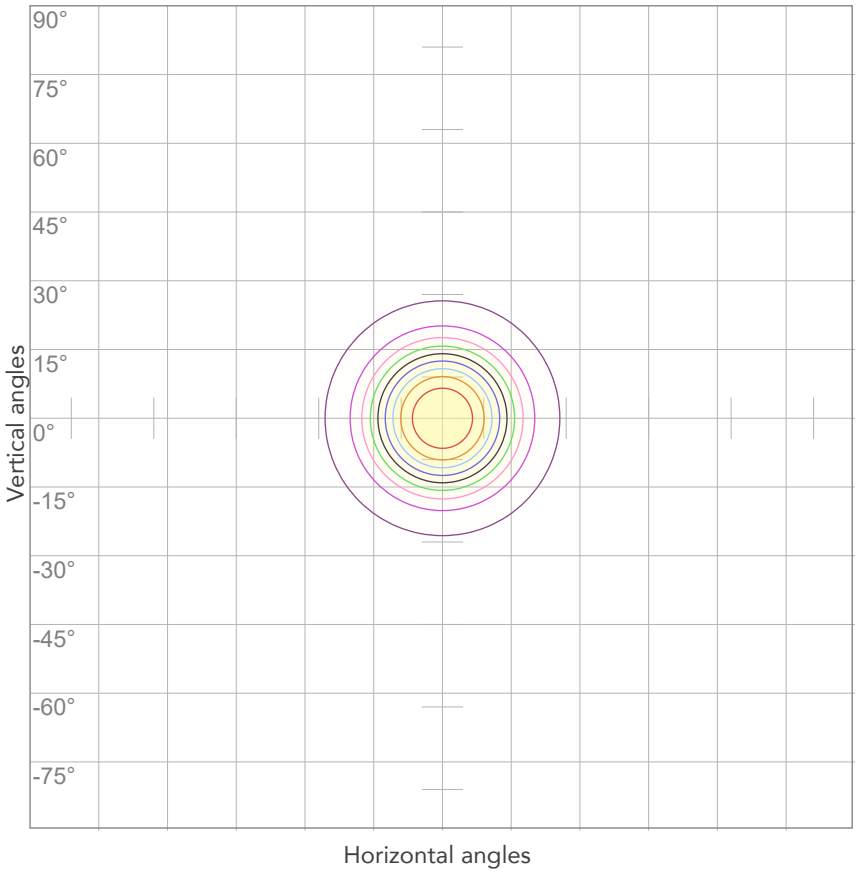
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power Factor
225V	0,275A	55,5W	0,9

Effeciency
41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



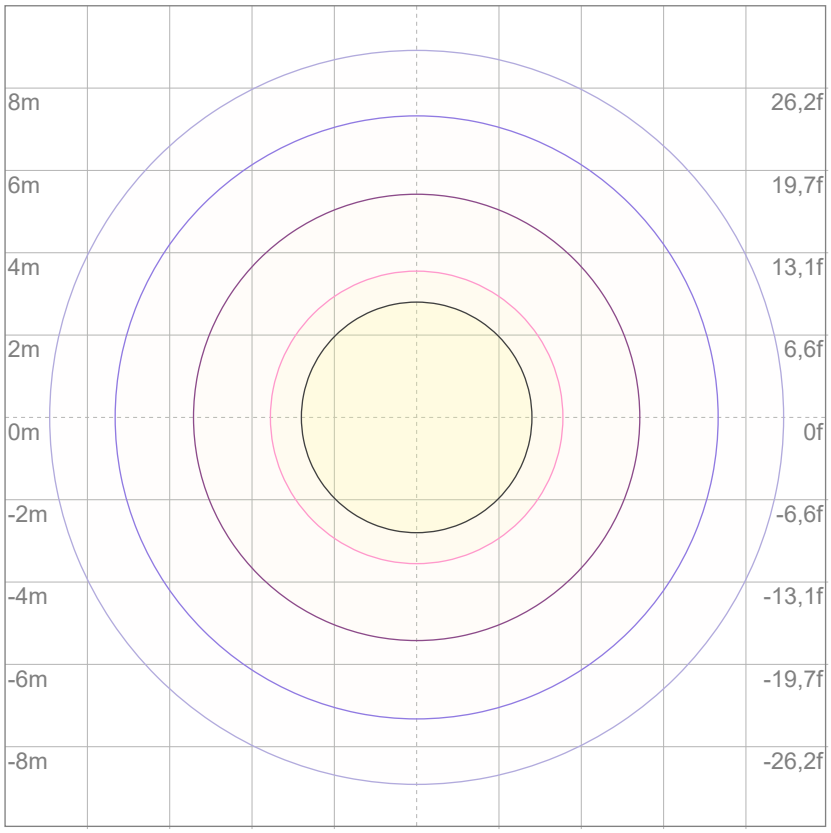
10%	632 cd
20%	1264 cd
30%	1895 cd
40%	2527 cd
50%	3159 cd
60%	3791 cd
70%	4423 cd
80%	5055 cd

Conditions:

Number of c-planes: 2

Candela at center: 6318 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,90 lx
5%	3,16 lx
10%	6,32 lx
30%	19,0 lx
50%	31,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 63,2 lx

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

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Total lumen output:

2380 lm

Peak candela output:

6492 cd

Light quality:

CRI: 91,0

Color temperature:

4066 K

PRODUCT NAME:

ECLPARIPMFC

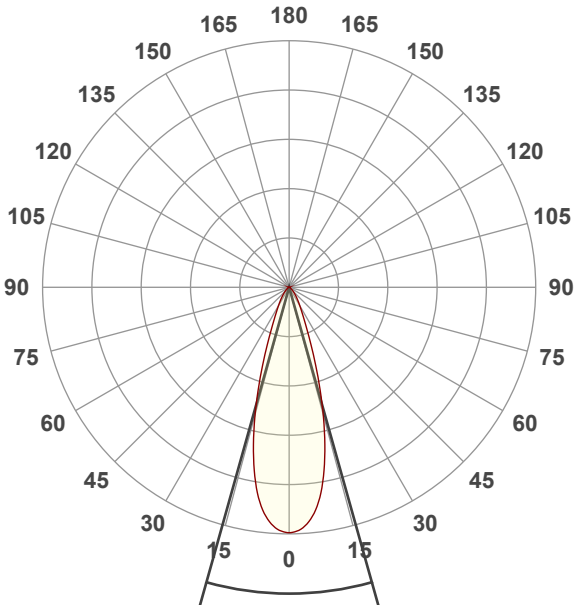
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
4000K

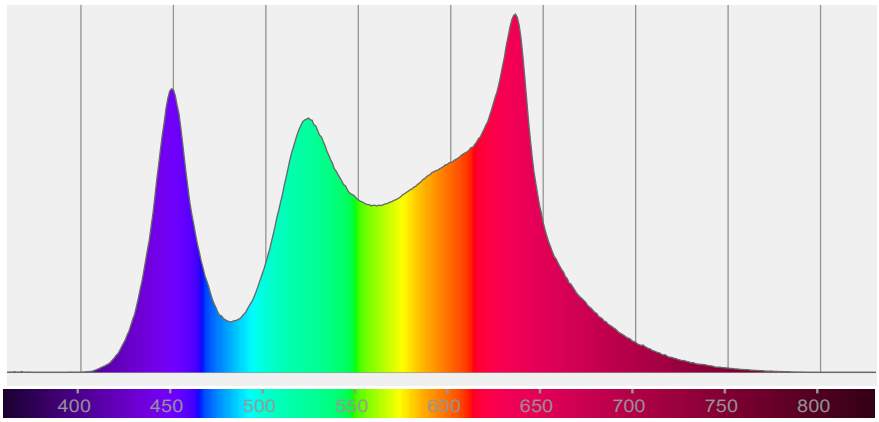
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:50:09

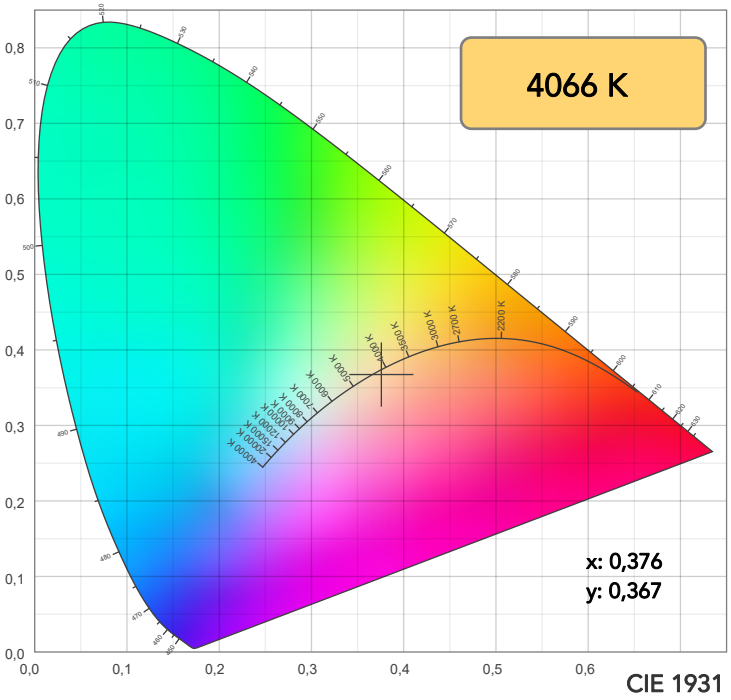


Beam angle 50%: 31,3°
Field angle 10%: 57,1°
Cut off angle 2.5%: 88,2°

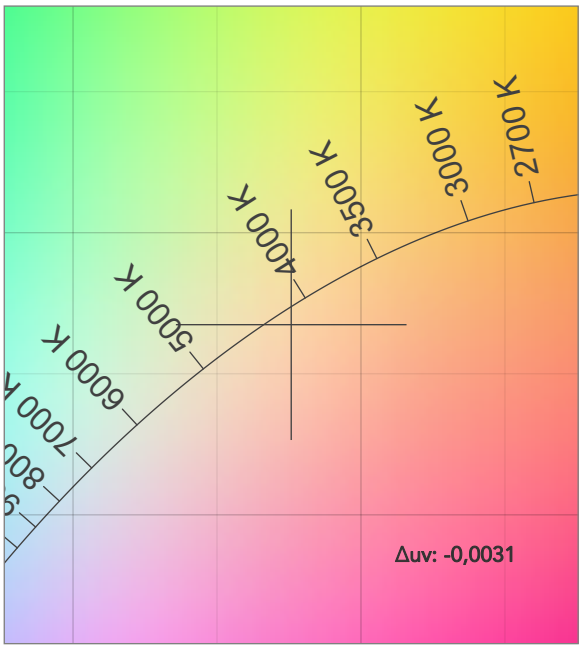
Spectra



COLOR DETAILS

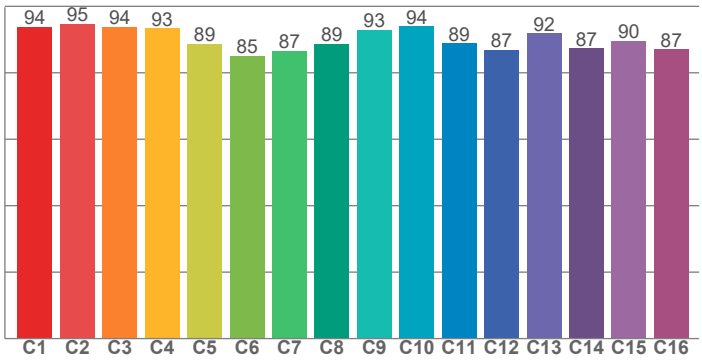


CIE 1931

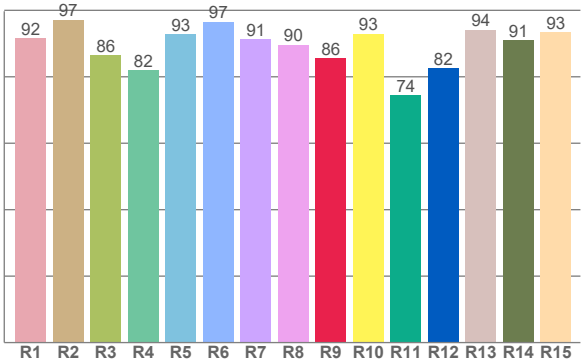


CIE 1931 ZOOM

TM30: 90,7



CRI: 91,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,6	97,2	86,5	82,0	92,8	96,5	91,4	89,6	85,6	92,9	74,5	82,5	94,1	90,9	93,5

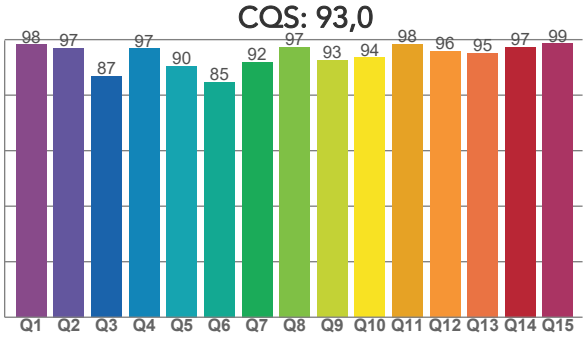
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,8	94,7	93,9	93,4	88,7	85,1	86,6	88,7	92,8	94,0	88,8	87,0	91,8	87,3	89,5	87,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,2	97,0	86,8	96,8	90,4	84,7	91,9	97,3	92,6	93,6	98,5	95,9	95,2	97,3	98,6

CQS: 93,0



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4066 K	91,0	85,6	90,7	108,1	93,0	81	0,376	0,367	-0,0031

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TM30 DETAILS

PROLiGHTS

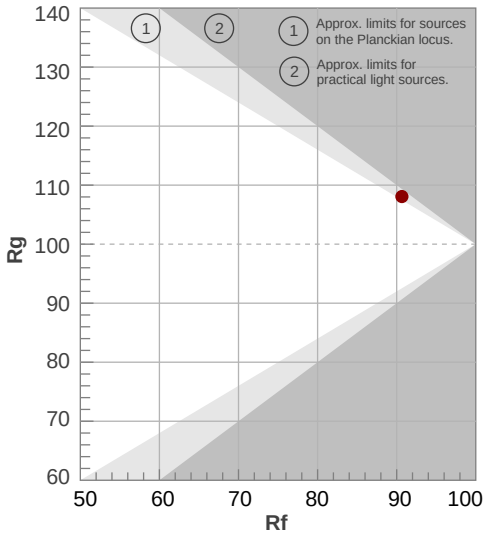
Rf 90,7

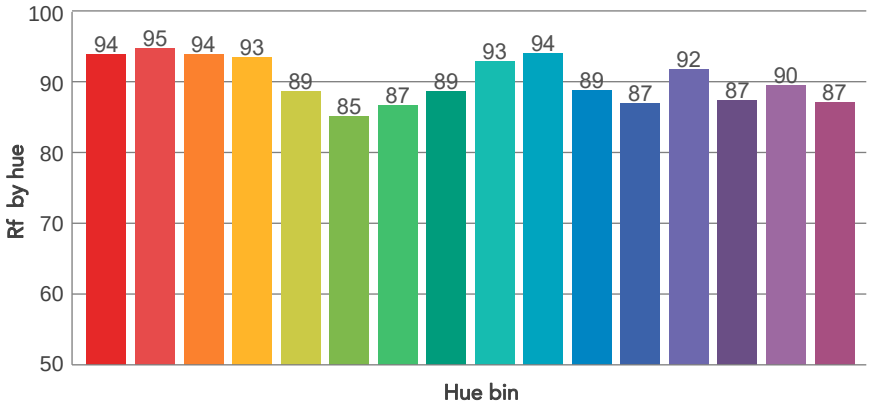
Fidelity index Rf

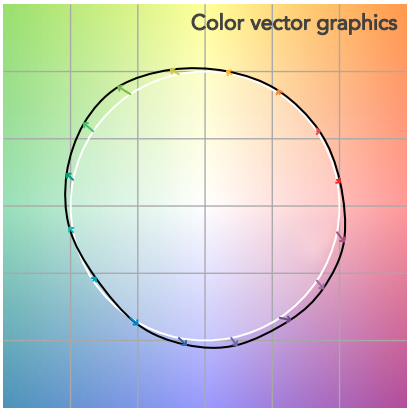
Rg 108,1

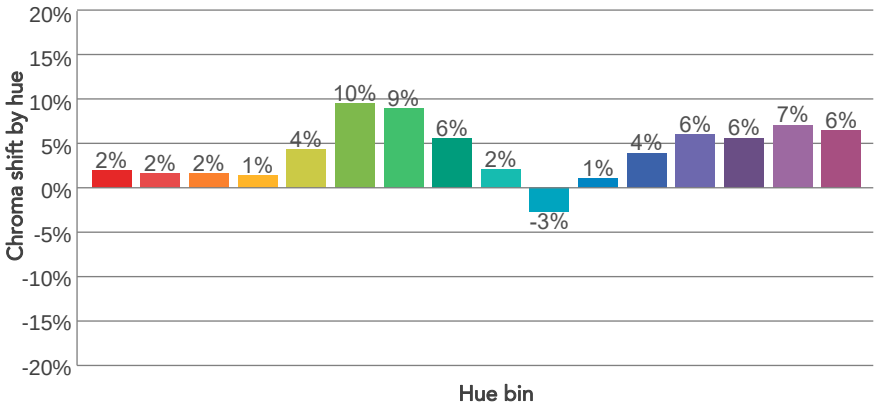
Gammut index

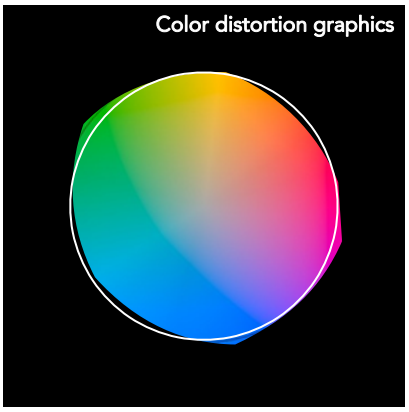
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	2%	-2%
2	95	2%	-1%
3	94	2%	2%
4	93	1%	3%
5	89	4%	5%
6	85	10%	4%
7	87	9%	-1%
8	89	6%	-3%
9	93	2%	-4%
10	94	-3%	-1%
11	89	1%	7%
12	87	4%	6%
13	92	6%	3%
14	87	6%	6%
15	90	7%	-2%
16	87	6%	-6%

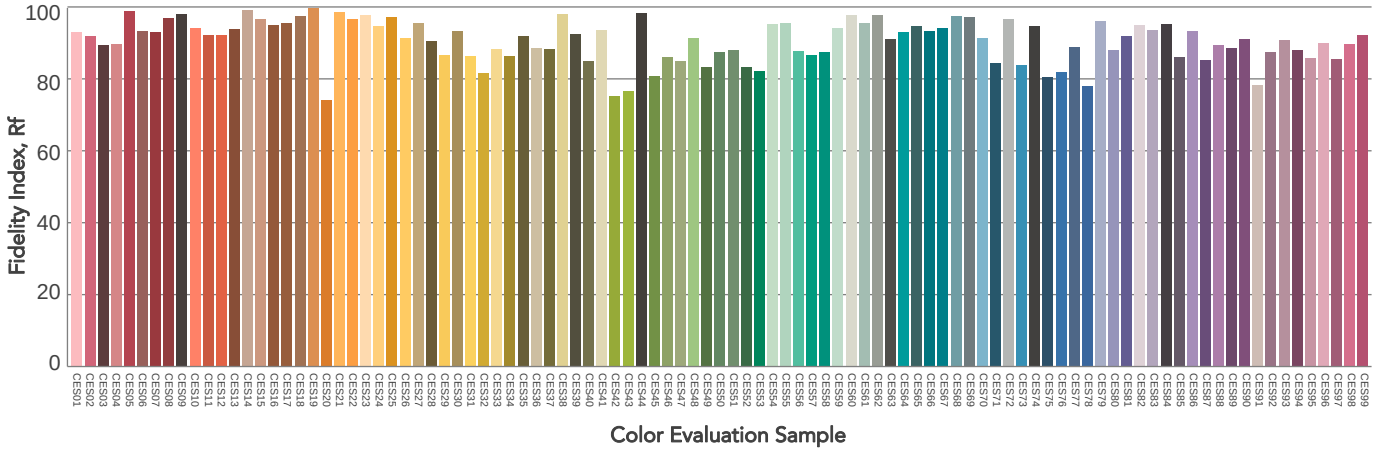












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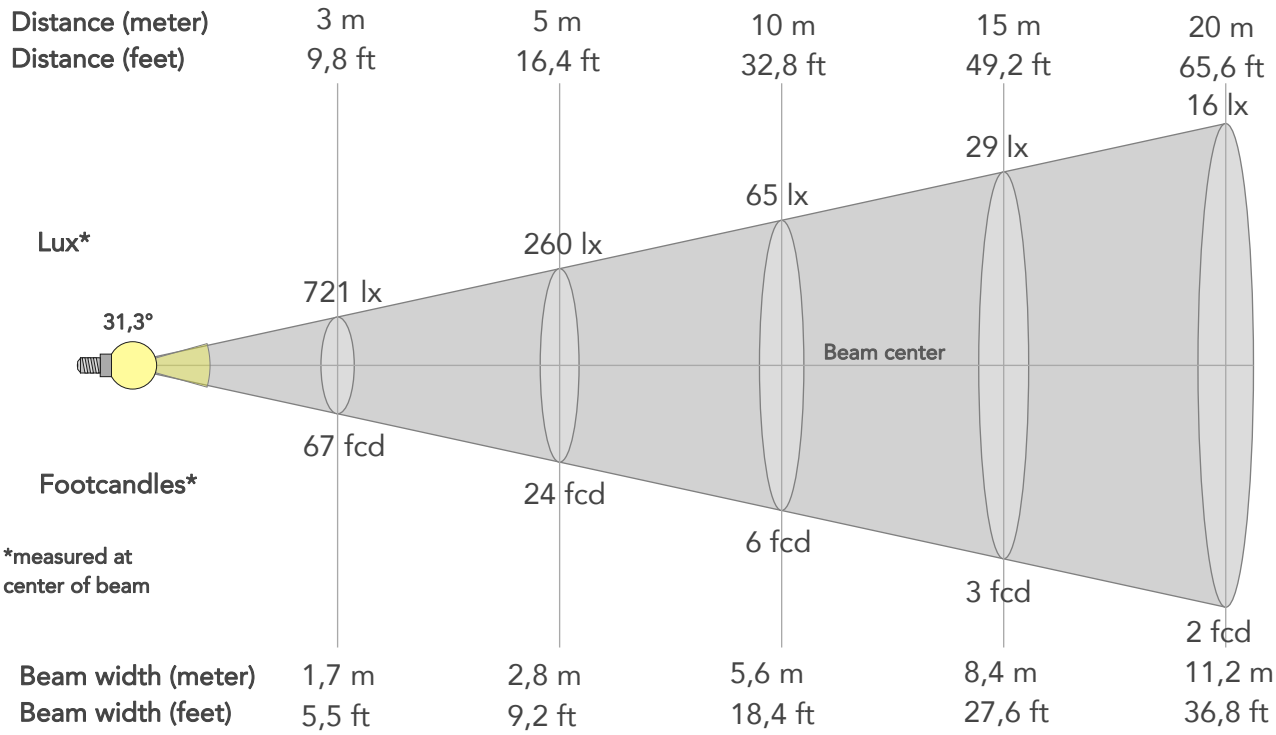
BEAM DETAILS

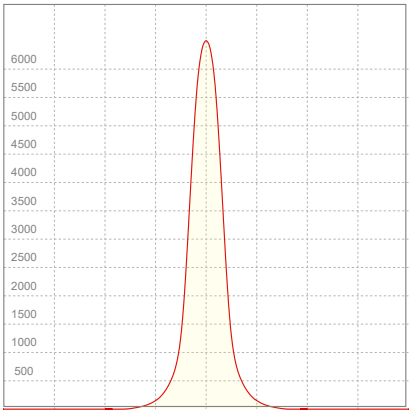
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,3°	57,1°	88,2°	99,2%	94,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	6492lx	1623lx	721lx	406lx	260lx	115lx	65lx	29lx	16lx	10lx	7lx	4lx	3lx
Footcand.	603fcd	151fcd	67fcd	38fcd	24fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,4m	28m
Beam wid.	1,9ft	3,7ft	5,5ft	7,3ft	9,2ft	13,8ft	18,4ft	27,6ft	36,8ft	46ft	55,2ft	73,6ft	92ft

LINEAR DISTRIBUTION DIAGRAM



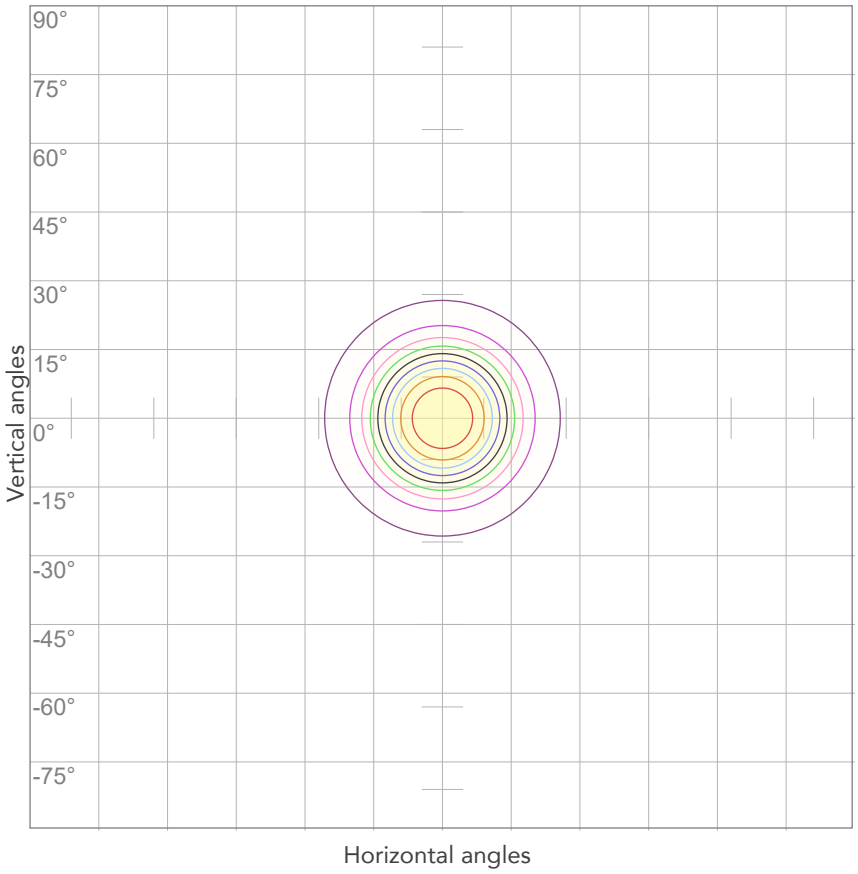
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power Factor
226V	0,294A	59,8W	0,9

Effeciency
40lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



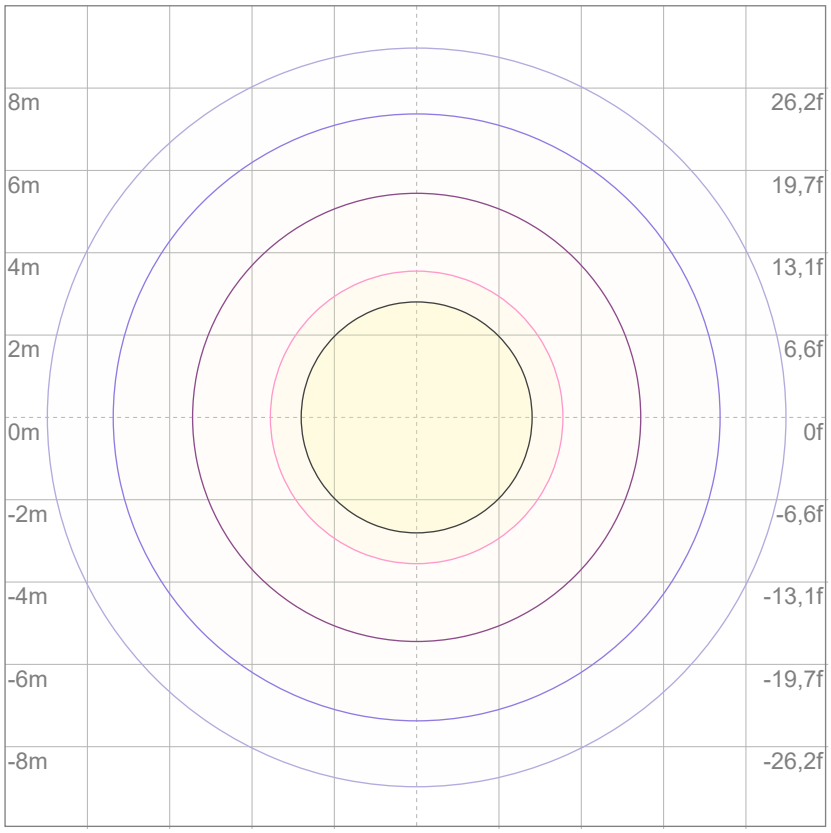
10%	649 cd
20%	1298 cd
30%	1948 cd
40%	2597 cd
50%	3246 cd
60%	3895 cd
70%	4545 cd
80%	5194 cd

Conditions:

Number of c-planes: 2

Candela at center: 6492 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,95 lx
5%	3,25 lx
10%	6,49 lx
30%	19,5 lx
50%	32,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 64,9 lx

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

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Total lumen output:

2651 lm

Peak candela output:

6972 cd

Light quality:

CRI: 89,0

Color temperature:

5612 K

PRODUCT NAME:

ECLPARIPMFC

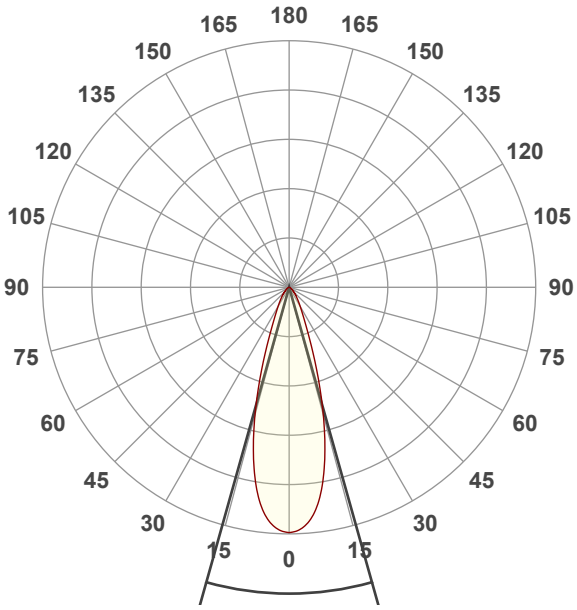
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
5600K

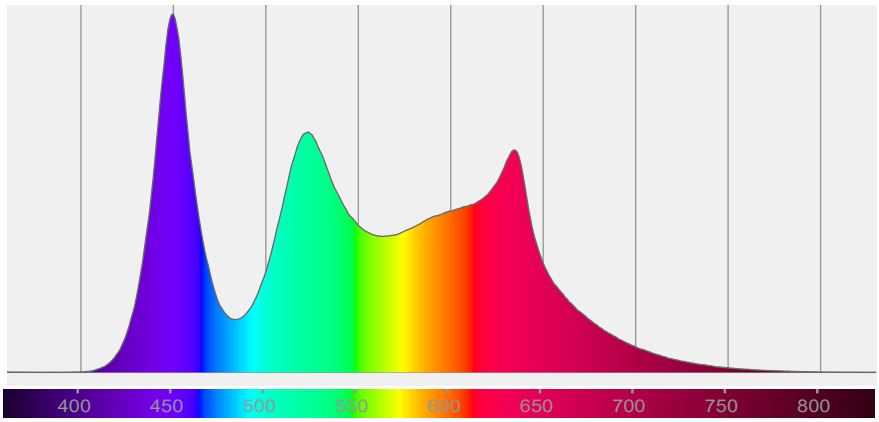
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:42:48

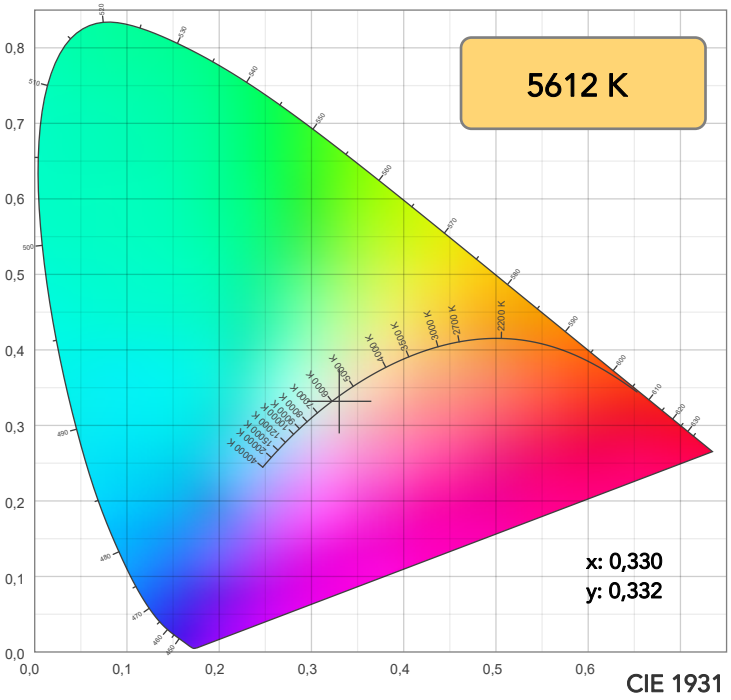


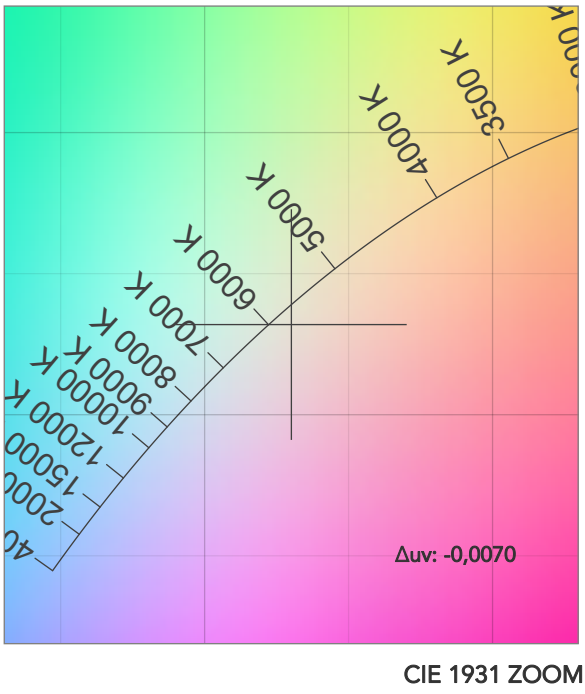
Beam angle 50%: 31,4°
Field angle 10%: 57,7°
Cut off angle 2.5%: 91,9°

Spectra

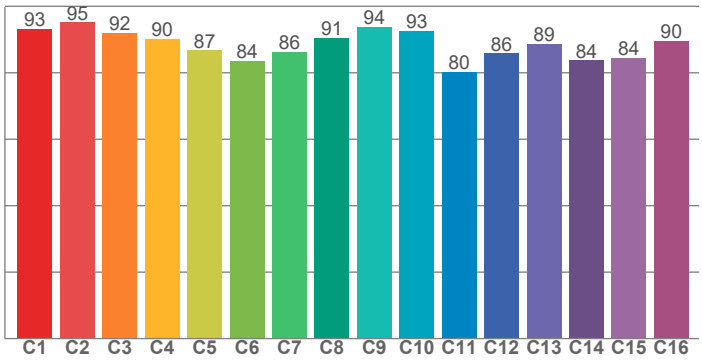


COLOR DETAILS

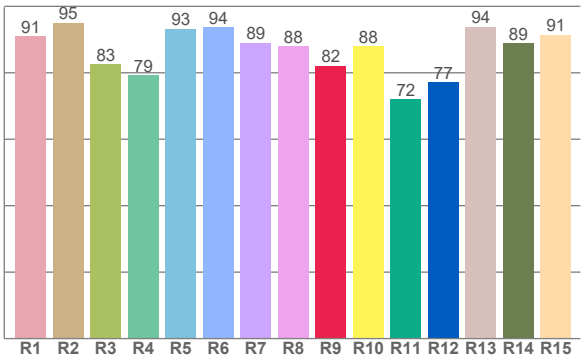




TM30: 88,5



CRI: 89,0 (R1-R8)



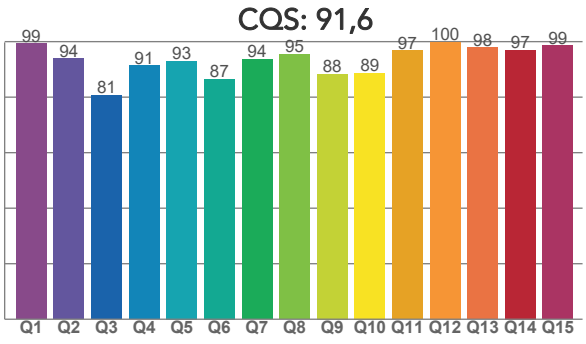
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,1	95,0	82,6	79,2	93,2	93,7	89,0	88,0	82,1	88,0	71,9	77,1	93,9	88,9	91,5

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	95,2	92,0	90,2	86,7	83,5	86,3	90,6	93,8	92,5	80,4	85,9	88,6	83,7	84,5	89,5

CQS: 91,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,3	94,0	80,7	91,4	93,1	86,6	93,6	95,5	88,4	88,7	96,7	99,8	97,9	96,9	98,6

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
5612 K	89,0	82,1	88,5	109,0	91,6	86	0,330	0,332	-0,0070

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TM30 DETAILS

PROLiGHTS

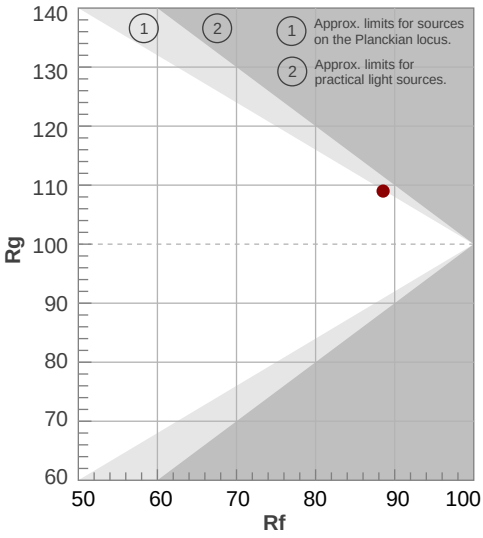
Rf 88,5

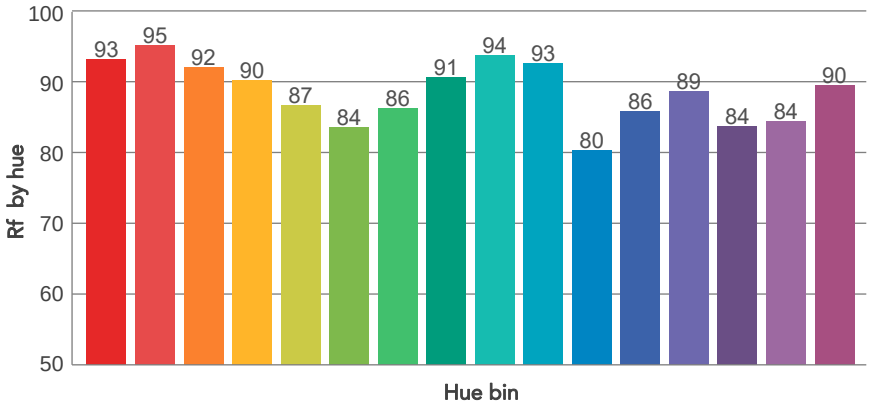
Fidelity index Rf

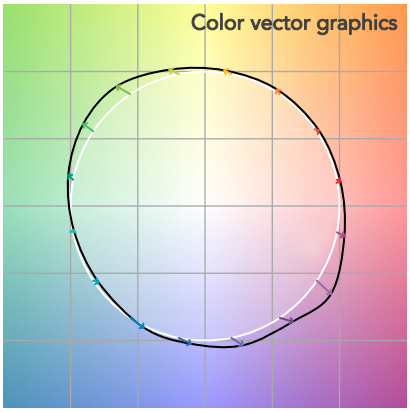
Rg 109,0

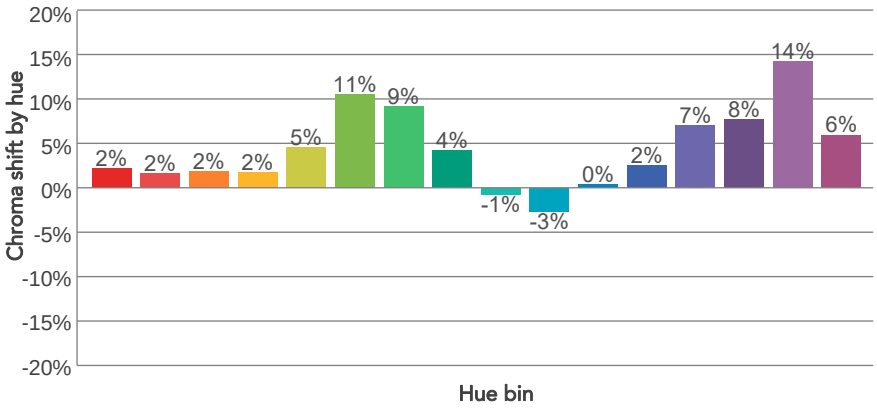
Gammut index

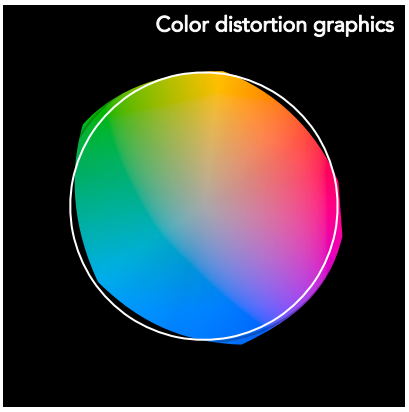
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	93	2%	-2%
2	95	2%	0%
3	92	2%	4%
4	90	2%	6%
5	87	5%	6%
6	84	11%	5%
7	86	9%	0%
8	91	4%	-3%
9	94	-1%	-2%
10	93	-3%	3%
11	80	0%	12%
12	86	2%	9%
13	89	7%	7%
14	84	8%	7%
15	84	14%	-2%
16	90	6%	-2%

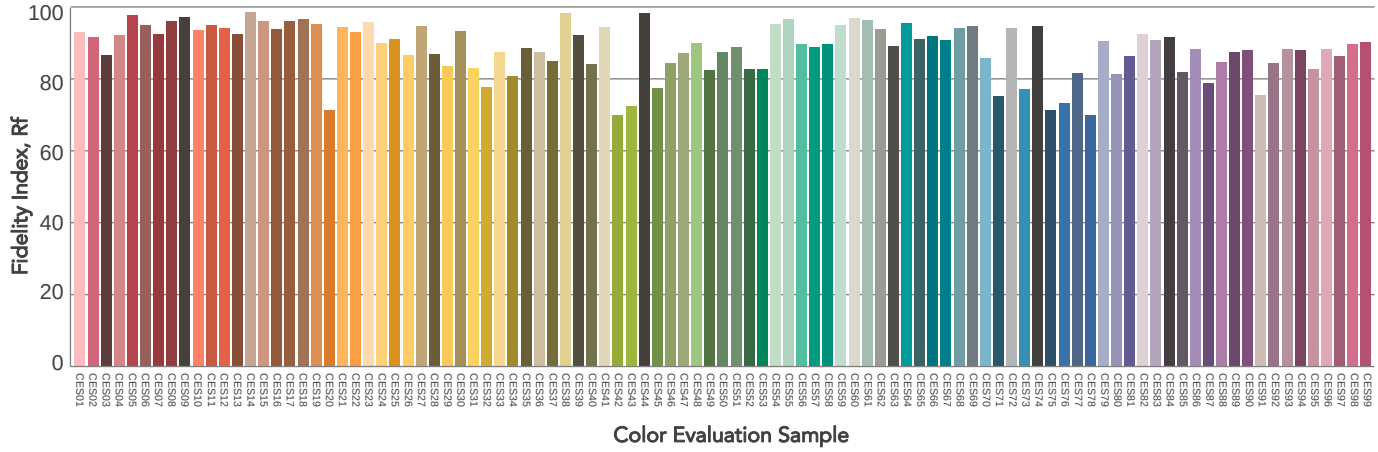












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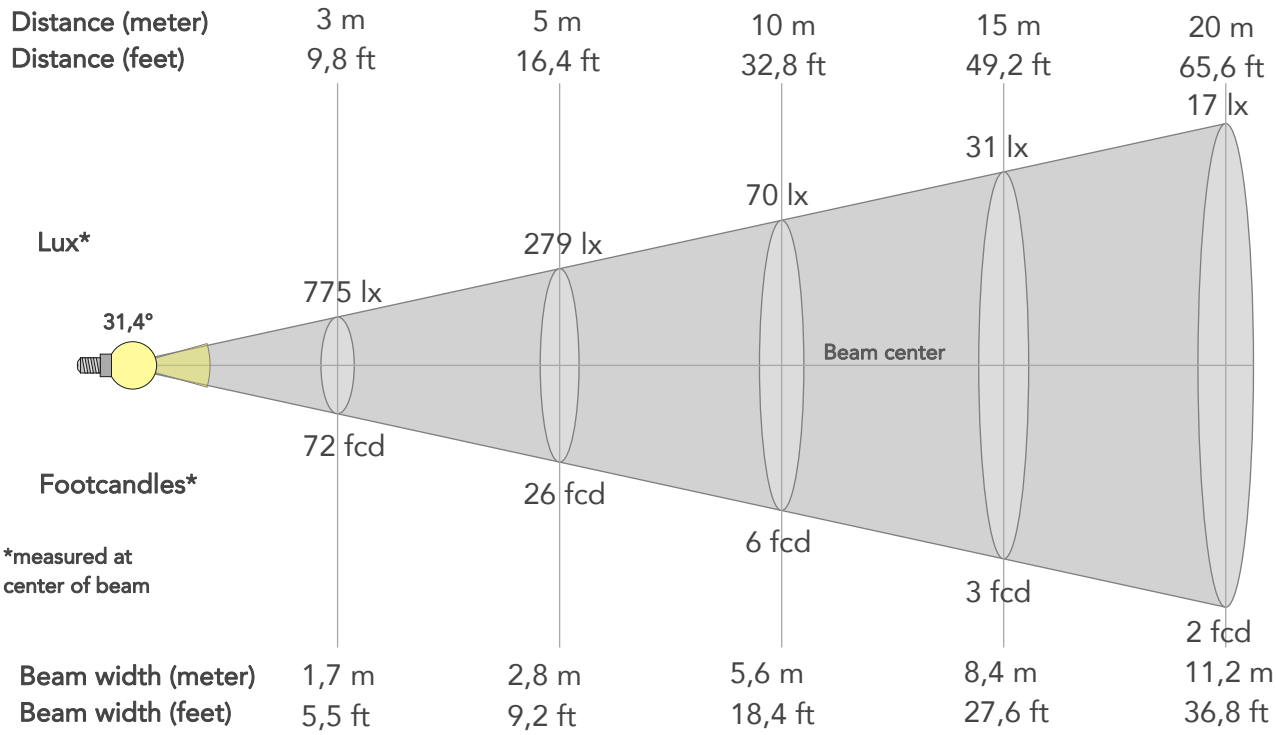
BEAM DETAILS

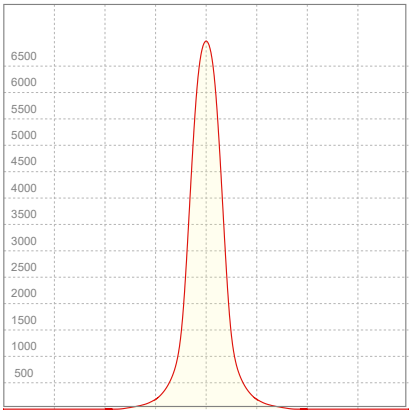
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,4°	57,7°	91,9°	98,1%	92,7%



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	6972lx	1743lx	775lx	436lx	279lx	124lx	70lx	31lx	17lx	11lx	8lx	4lx	3lx
Footcand.	648fcd	162fcd	72fcd	40fcd	26fcd	12fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,5m	28,1m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,2ft	13,8ft	18,4ft	27,6ft	36,8ft	46ft	55,3ft	73,7ft	92,1ft

LINEAR DISTRIBUTION DIAGRAM



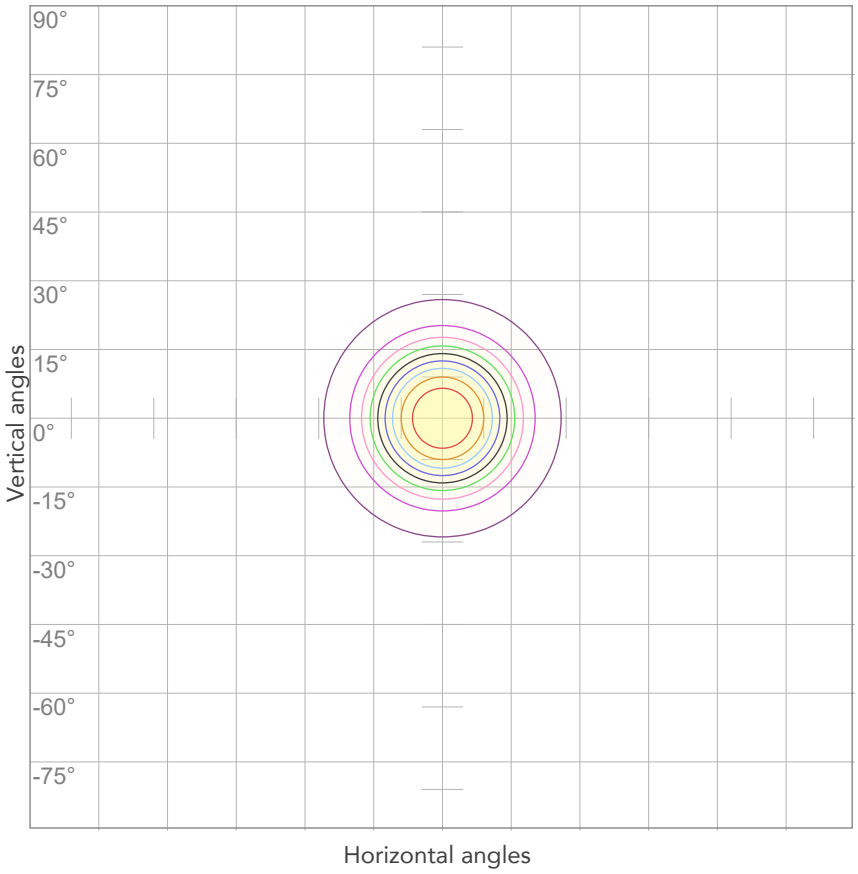
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power Factor
226V	0,325A	66,6W	0,91

Effeciency
40lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



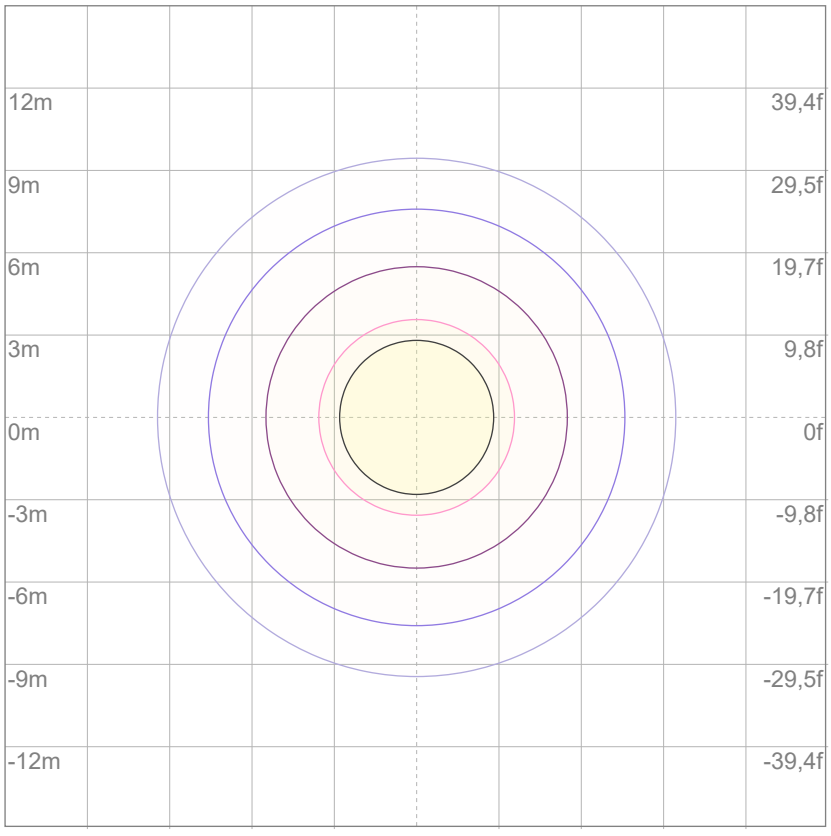
10%	697 cd
20%	1394 cd
30%	2091 cd
40%	2789 cd
50%	3486 cd
60%	4183 cd
70%	4880 cd
80%	5577 cd

Conditions:

Number of c-planes: 2

Candela at center: 6972 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,09 lx
5%	3,49 lx
10%	6,97 lx
30%	20,9 lx
50%	34,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 69,7 lx

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

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Total lumen output:

2662 lm

Peak candela output:

7022 cd

Light quality:

CRI: 88,8

Color temperature:

6036 K

PRODUCT NAME:

ECLPARIPMFC

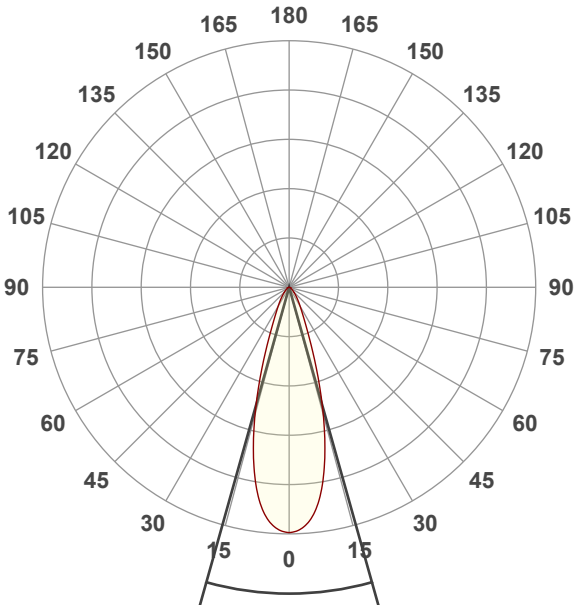
MEASURAMENT CONDITIONS:

Beam angle:
Medium Lens

Target:
6000K

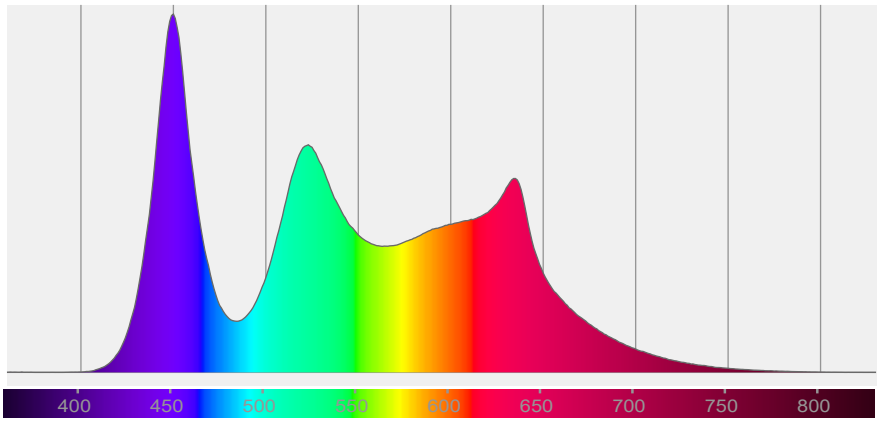
Operator:
Salvatore Giglio

Date and time:
30/08/2023 17:47:03

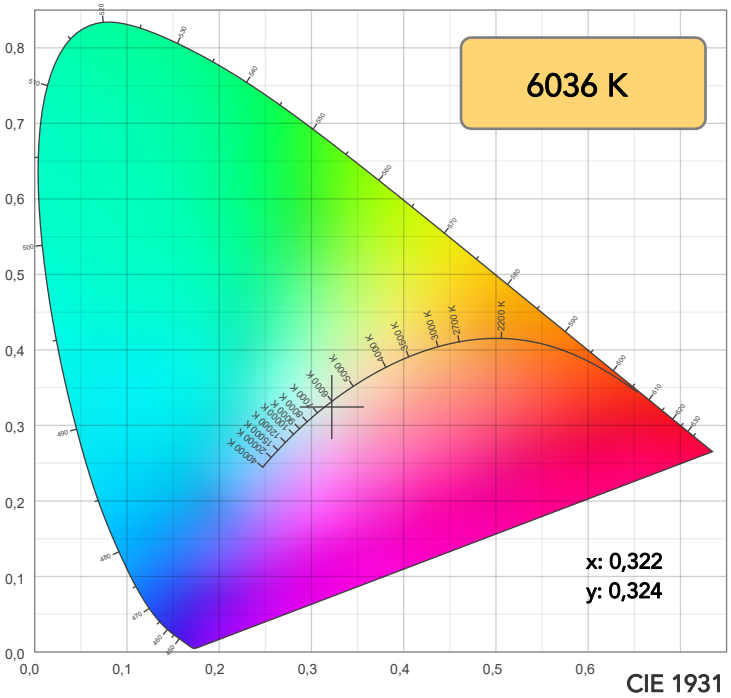


Beam angle 50%: 31,4°
Field angle 10%: 57,7°
Cut off angle 2.5%: 91,8°

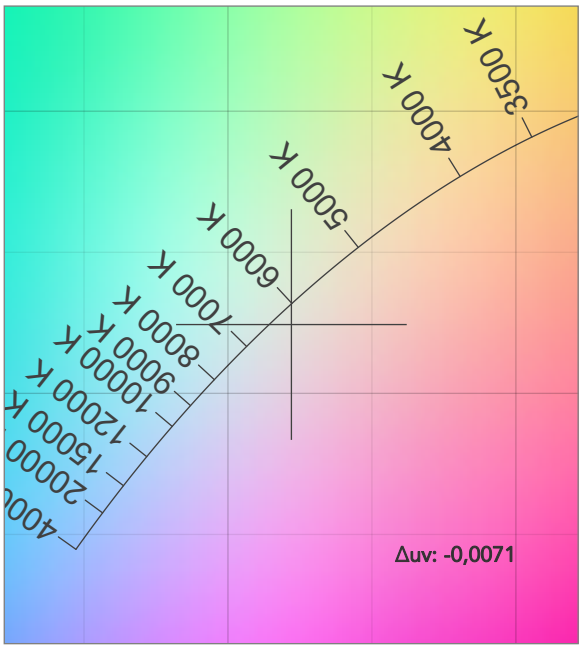
Spectra



COLOR DETAILS

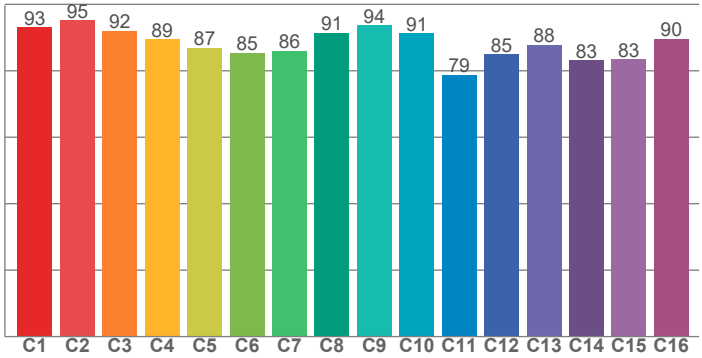


CIE 1931

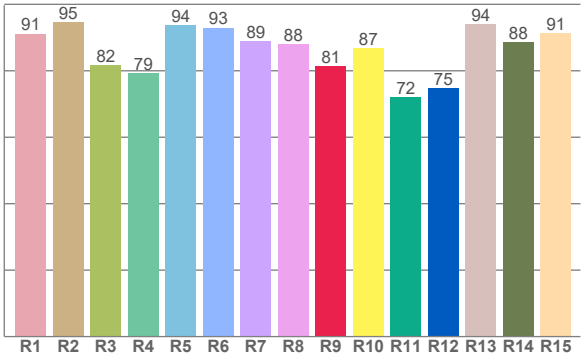


CIE 1931 ZOOM

TM30: 88,3



CRI: 88,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,1	94,6	81,7	79,3	93,7	92,9	89,0	87,9	81,3	86,8	72,0	74,7	93,9	88,5	91,3

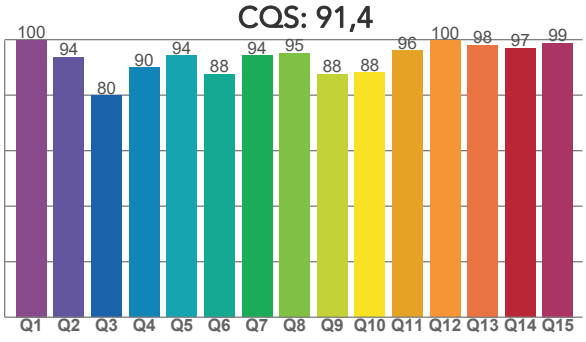
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	95,2	92,0	89,4	86,9	85,4	86,0	91,3	93,7	91,3	78,7	84,9	87,9	83,2	83,5	89,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,8	93,8	79,8	89,9	94,2	87,6	94,2	95,1	87,7	88,1	96,0	99,7	98,0	96,9	98,7

CQS: 91,4



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
6036 K	88,8	81,3	88,3	108,8	91,4	87	0,322	0,324	-0,0071

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TM30 DETAILS

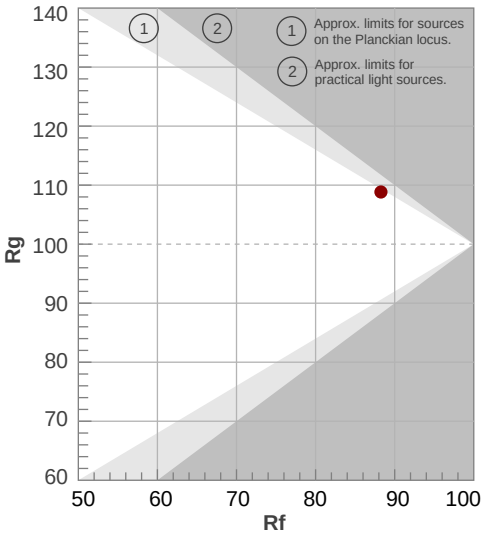
Rf 88,3

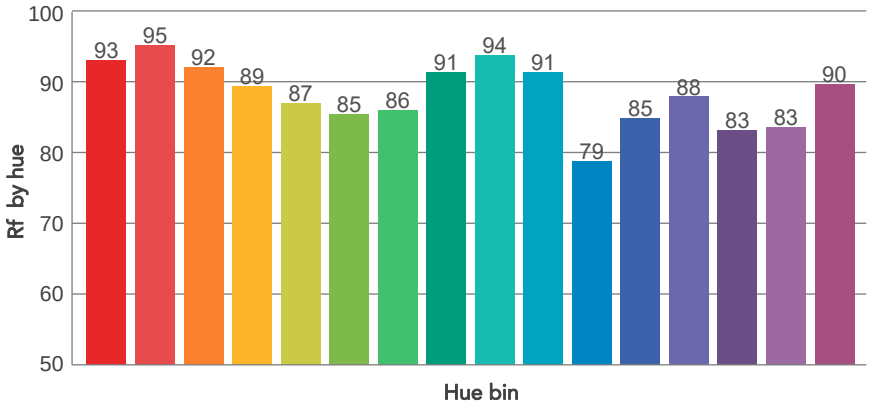
Fidelity index Rf

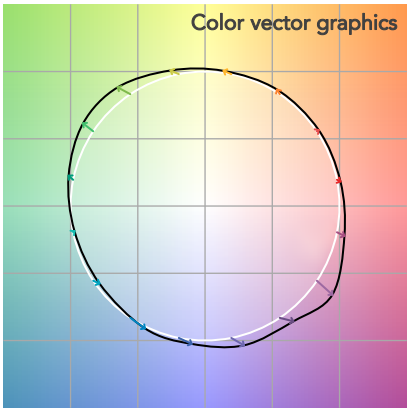
Rg 108,8

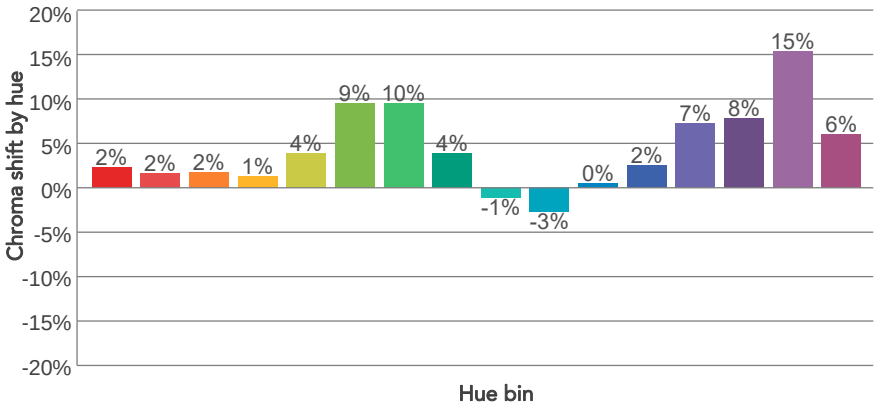
Gammut index

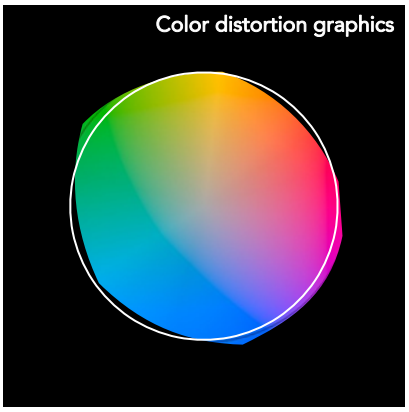
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	2%	-2%
2	95	2%	0%
3	92	2%	4%
4	89	1%	6%
5	87	4%	5%
6	85	9%	5%
7	86	10%	-1%
8	91	4%	-2%
9	94	-1%	-1%
10	91	-3%	4%
11	79	0%	13%
12	85	2%	10%
13	88	7%	8%
14	83	8%	7%
15	83	15%	-2%
16	90	6%	-2%

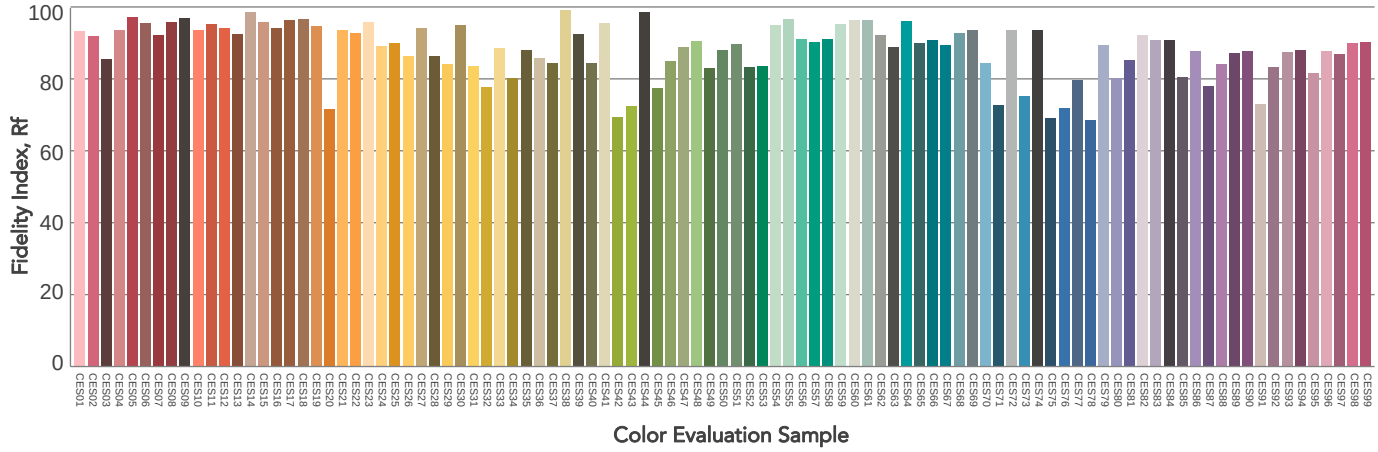












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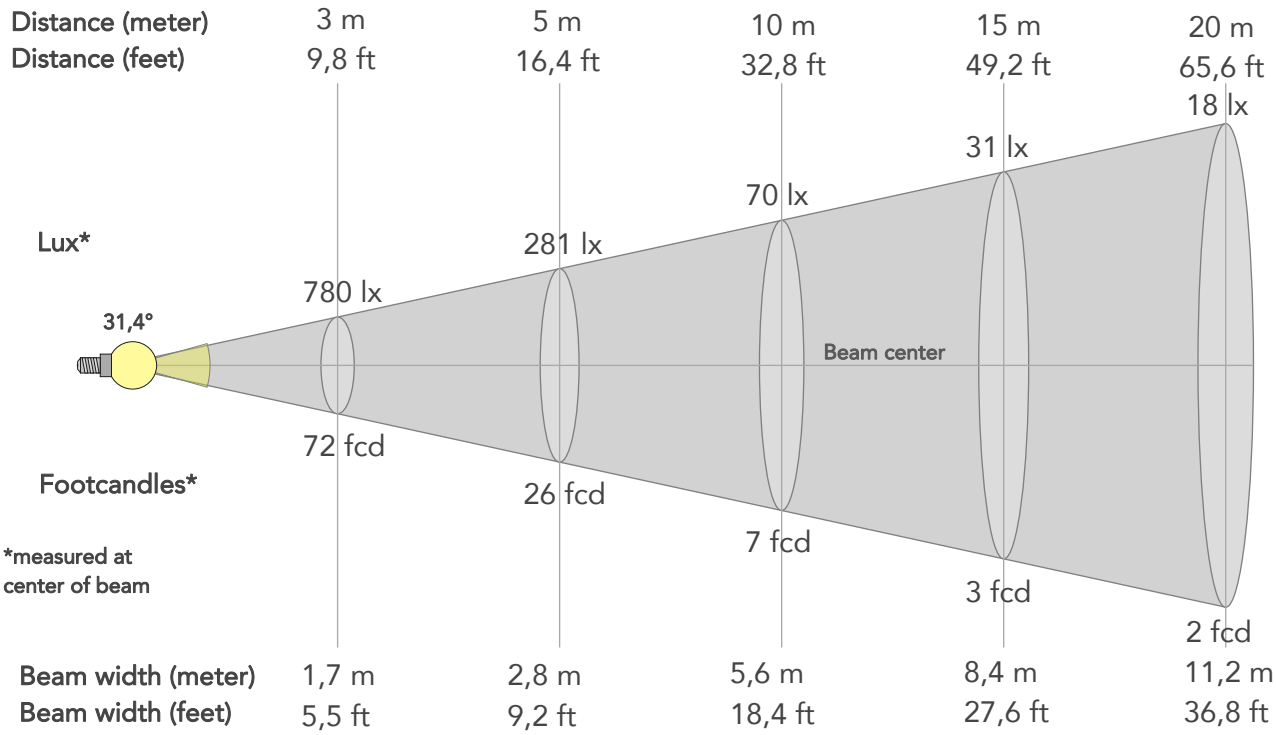
BEAM DETAILS

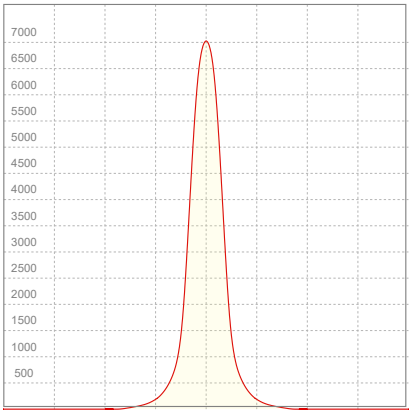
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,4°	57,7°	91,8°	98,3%	92,9%



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	7022lx	1755lx	780lx	439lx	281lx	125lx	70lx	31lx	18lx	11lx	8lx	4lx	3lx
Footcand.	652fcd	163fcd	72fcd	41fcd	26fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,5m	28,1m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,2ft	13,8ft	18,4ft	27,6ft	36,8ft	46ft	55,2ft	73,7ft	92,1ft

LINEAR DISTRIBUTION DIAGRAM



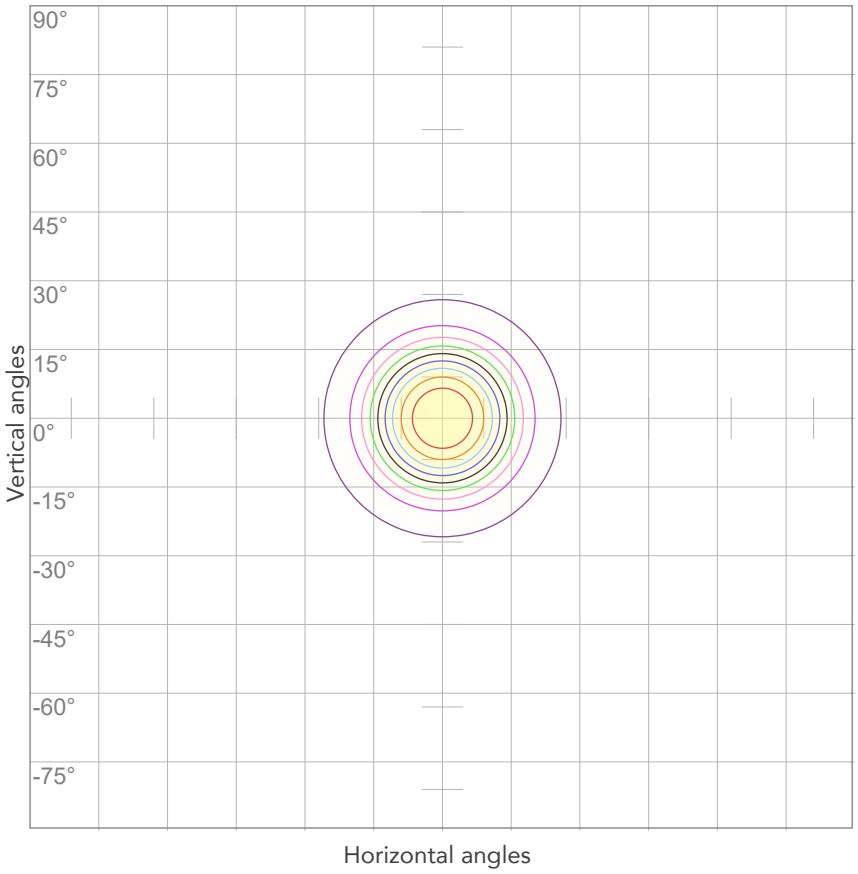
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power Factor
226V	0,331A	67,8W	0,91

Effeciency
39lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



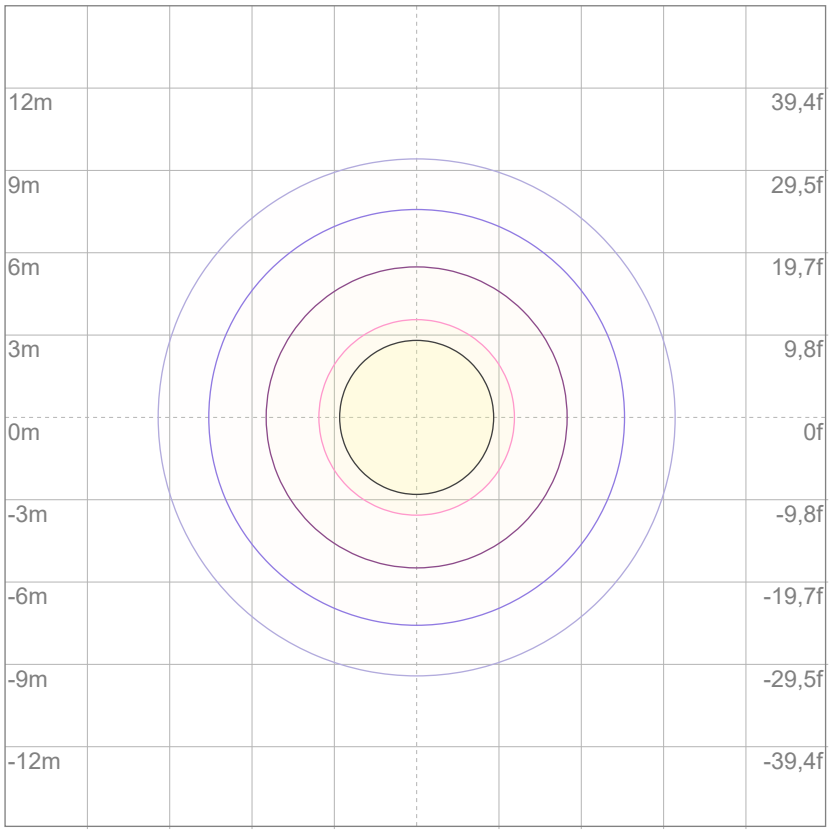
10%	702 cd
20%	1404 cd
30%	2107 cd
40%	2809 cd
50%	3511 cd
60%	4213 cd
70%	4915 cd
80%	5618 cd

Conditions:

Number of c-planes: 2

Candela at center: 7022 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,11 lx
5%	3,51 lx
10%	7,02 lx
30%	21,1 lx
50%	35,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 70,2 lx

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

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