Photometric Test Report

ArcSpot MFC

IP66 Spot featuring 3900 lumen

with 19 x 4W RGB+WarmWhite source,

15° Degree Optic

CONTENTS

TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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

Total lumen output:

4145 lm

Peak candela output:

43655 cd

Light quality:

CRI: 44,6

Color temperature:

18642 K

PRODUCT NAME:

ARCSPOTMFC

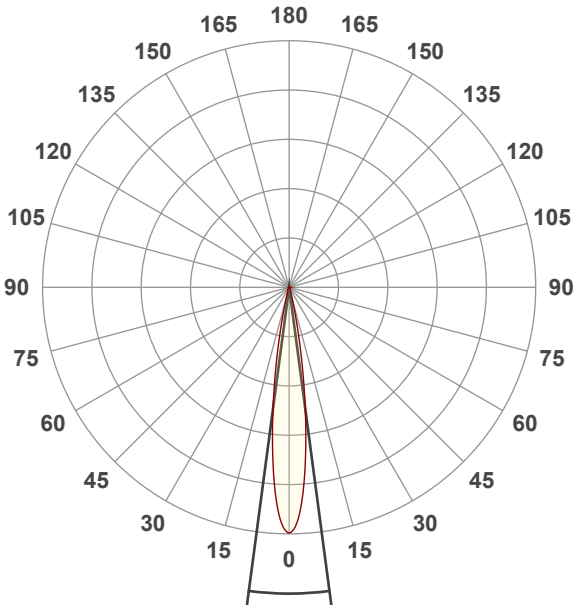
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Full On

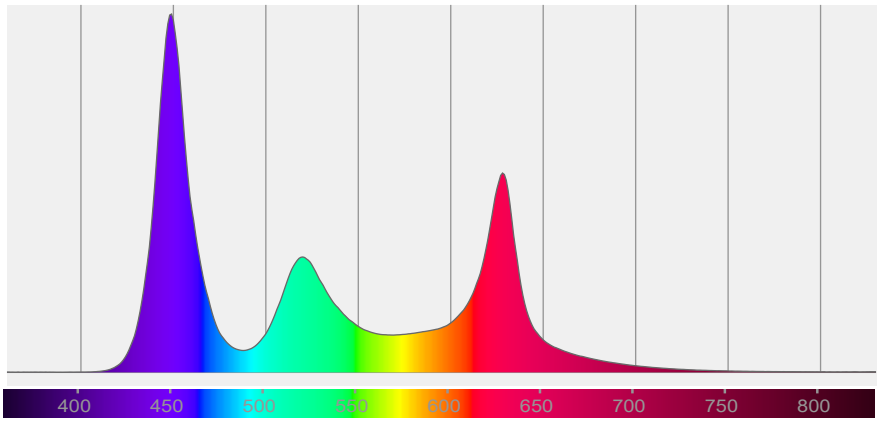
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:00:41

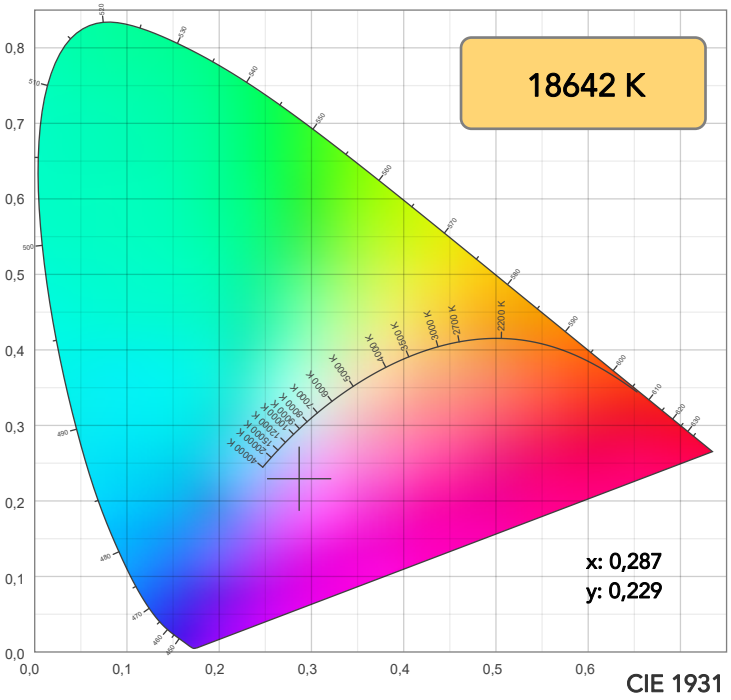


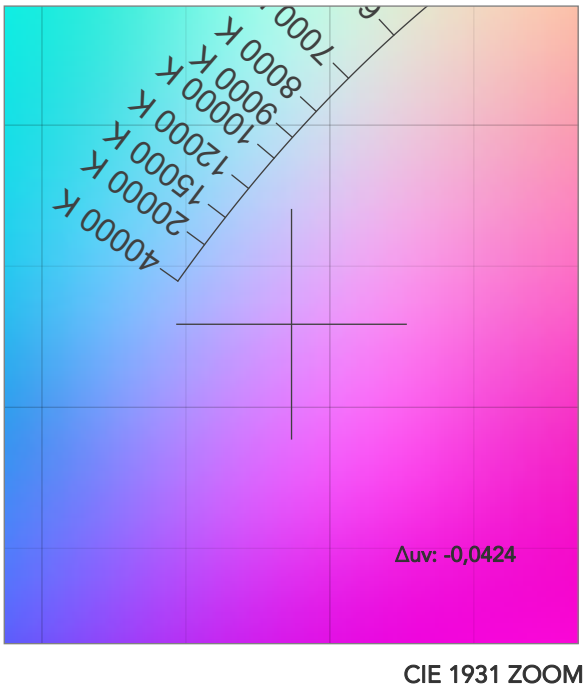
Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 36,3°

Spectra

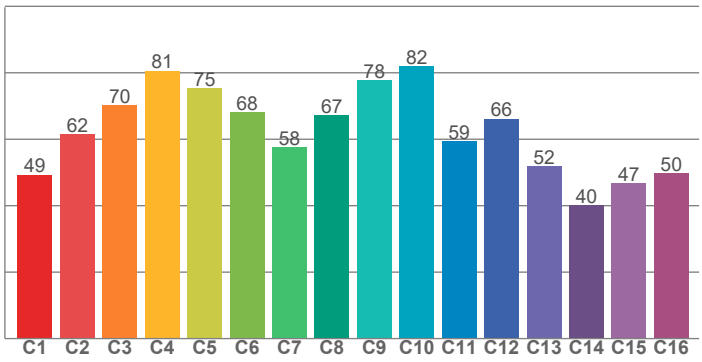


COLOR DETAILS

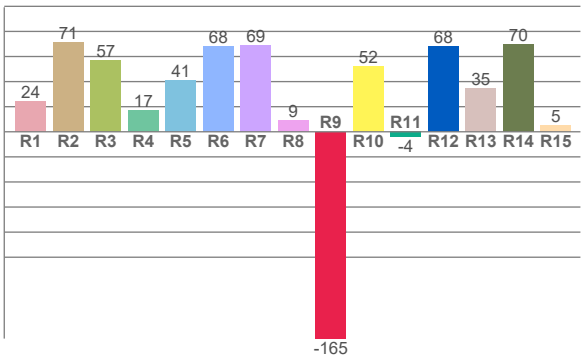




TM30: 65,4



CRI: 44,6 (R1-R8)



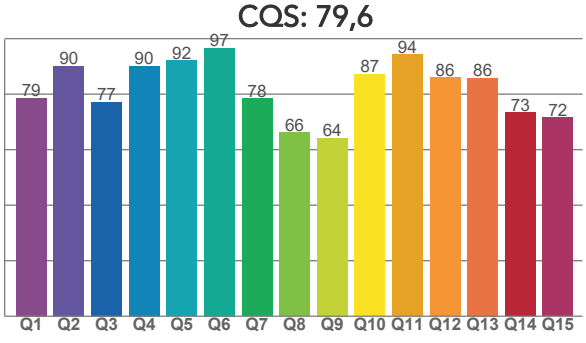
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
24,4	71,0	56,8	17,4	40,8	68,1	69,2	9,0	-164,9	52,4	-4,1	67,9	34,9	69,5	5,3

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
49,3	61,5	70,1	80,5	75,3	68,1	57,5	67,2	77,8	81,9	59,4	66,2	51,8	40,1	46,8	49,8

CQS: 79,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,6	90,2	77,2	90,2	92,1	96,6	78,4	66,1	64,2	87,2	94,3	86,0	85,8	73,3	71,5

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
18642 K	44,6	-164,9	65,4	127,7	79,6	70	0,287	0,229	-0,0424

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TM30 DETAILS

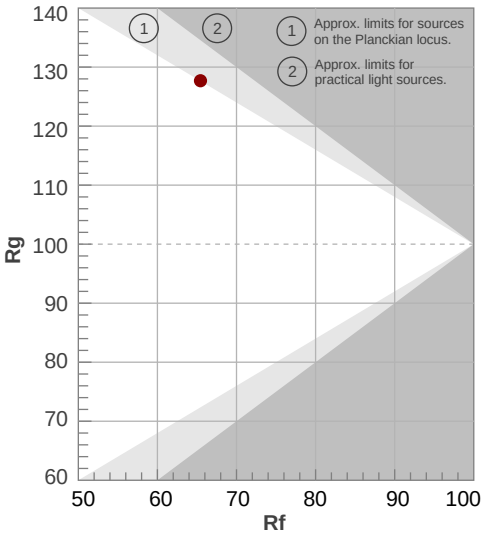
Rf 65,4

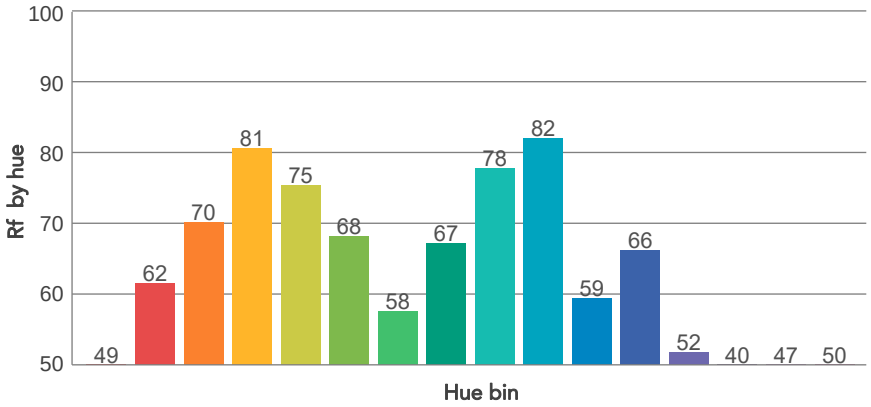
Fidelity index Rf

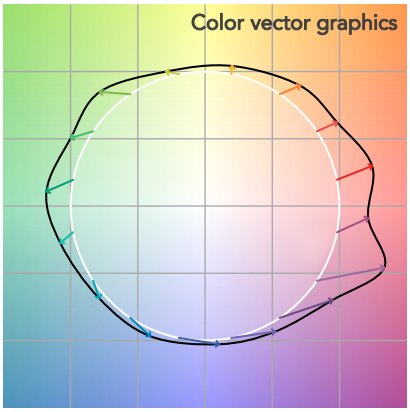
Rg 127,7

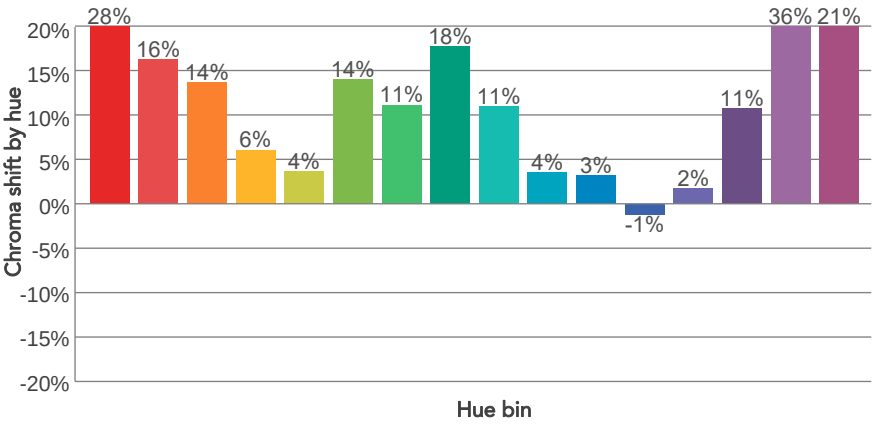
Gammut index

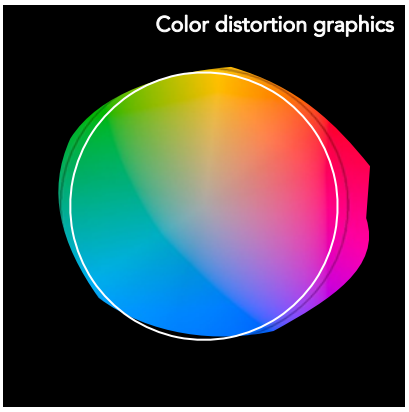
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	49	28%	5%
2	62	16%	-3%
3	70	14%	-9%
4	81	6%	0%
5	75	4%	9%
6	68	14%	18%
7	58	11%	13%
8	67	18%	12%
9	78	11%	6%
10	82	4%	13%
11	59	3%	20%
12	66	-1%	30%
13	52	2%	33%
14	40	11%	40%
15	47	36%	36%
16	50	21%	15%

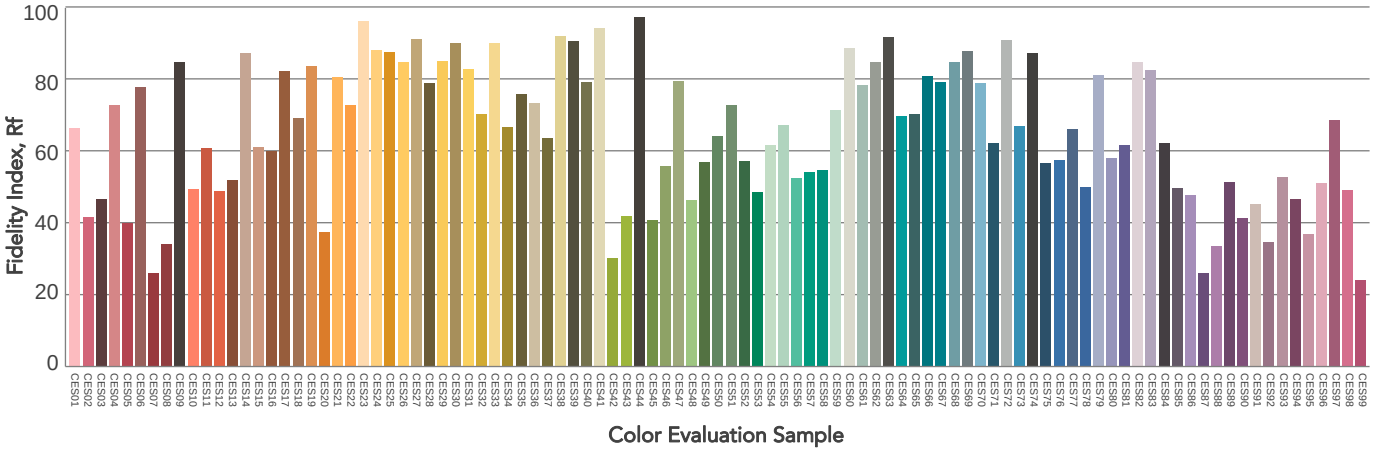












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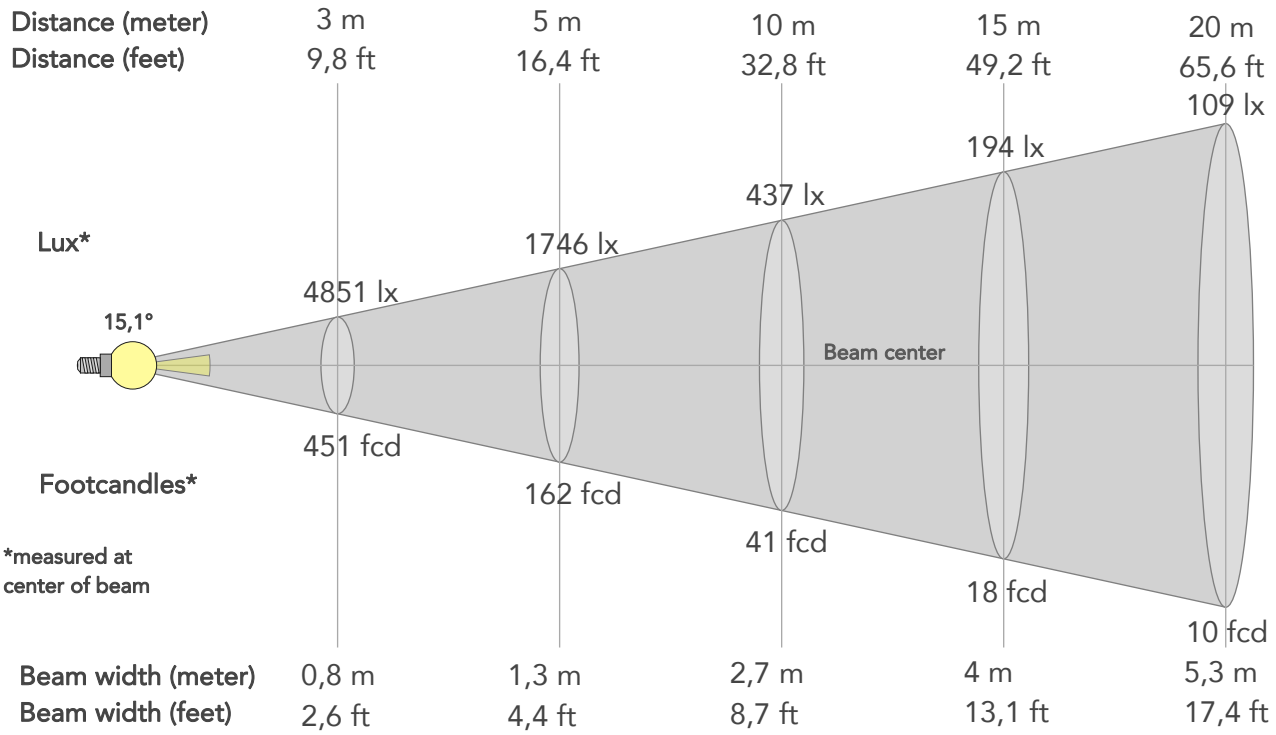
BEAM DETAILS

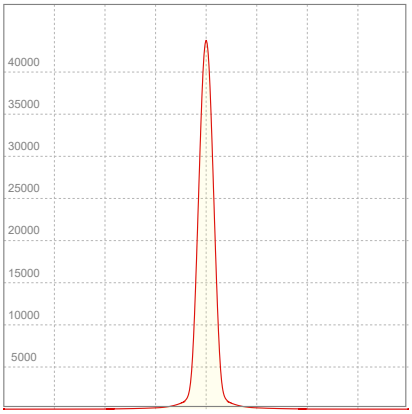
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	36,3°	95,2%	91,7%



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	43655lx	10914lx	4851lx	2728lx	1746lx	776lx	437lx	194lx	109lx	70lx	49lx	27lx	17lx
Footcand.	4056fcd	1014fcd	451fcd	253fcd	162fcd	72fcd	41fcd	18fcd	10fcd	6fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,8ft	43,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,385A	80,0W	0,92	52lm/W

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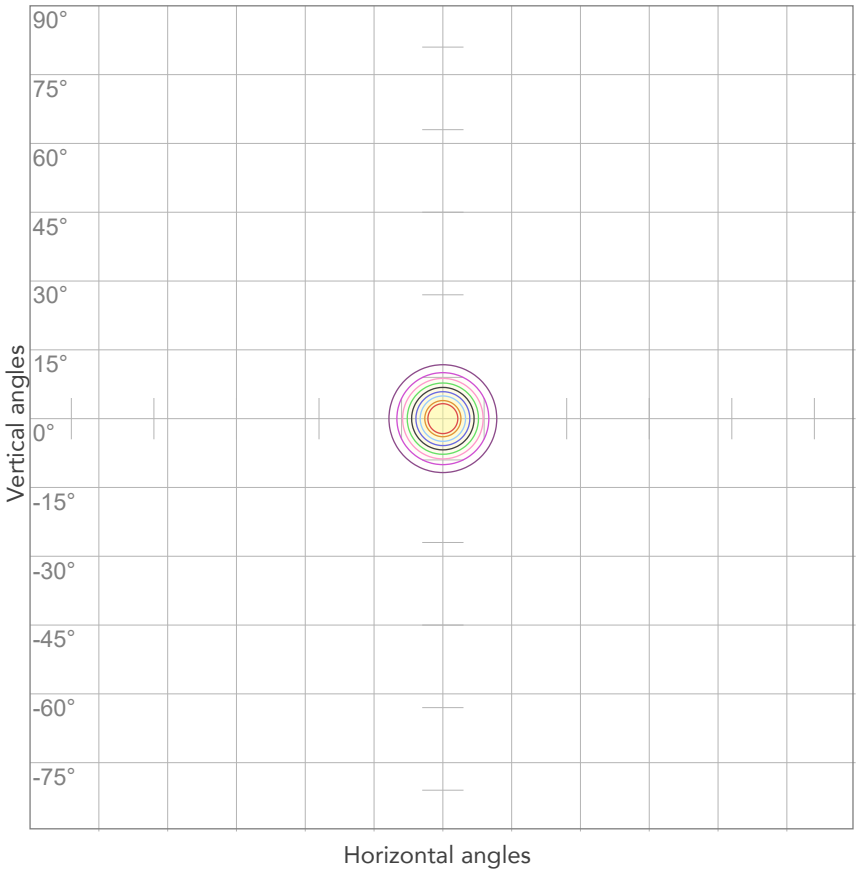
ISO DIAGRAMS

ISO CANDELA DIAGRAM



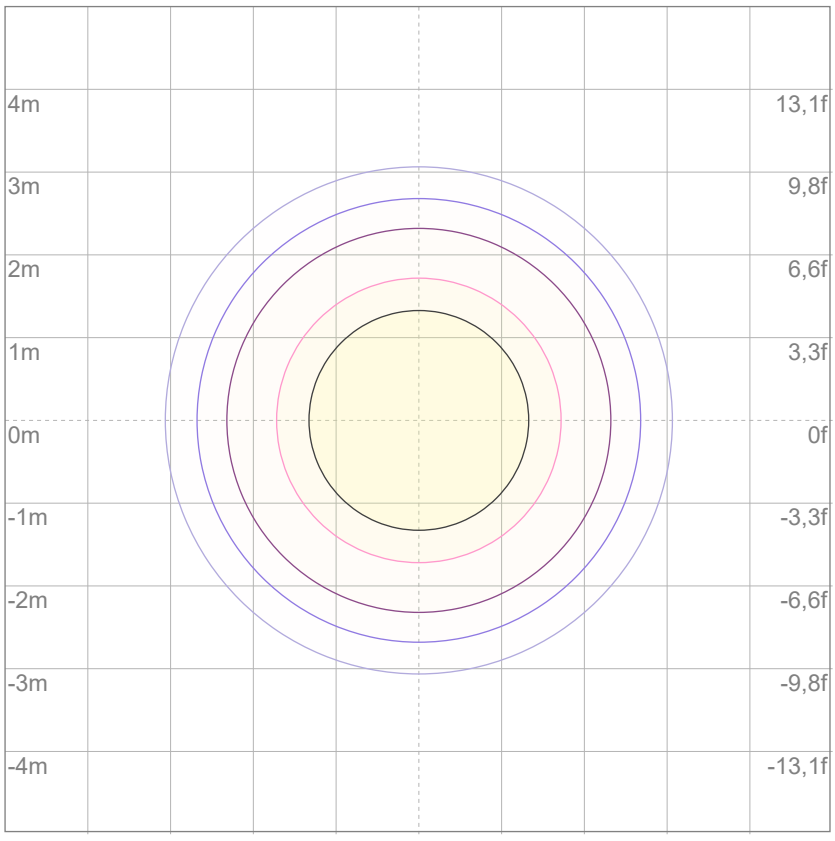
10%	4366 cd
20%	8731 cd
30%	13097 cd
40%	17462 cd
50%	21828 cd
60%	26193 cd
70%	30559 cd
80%	34924 cd

Conditions:

Number of c-planes: 2

Candela at center: 43655 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	13,1 lx
5%	21,8 lx
10%	43,7 lx
30%	131 lx
50%	218 lx

Conditions:

Number of c-planes: 2

Lux at center: 437 lx

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

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Total lumen output:

1207 lm

Peak candela output:

11328 cd

PRODUCT NAME:

ARCSPOTMFC

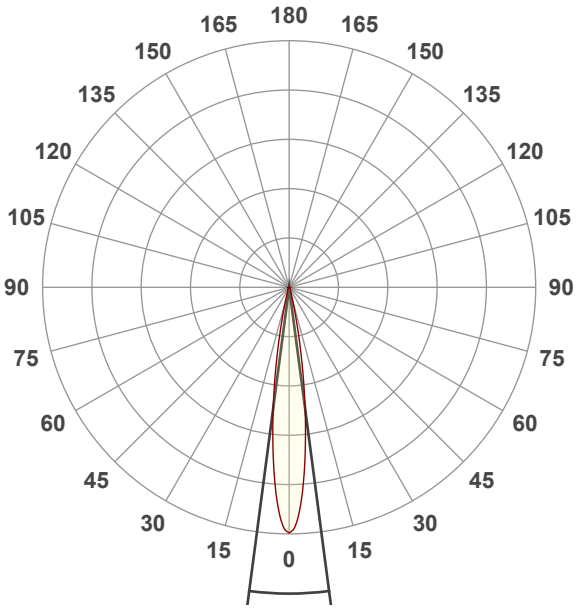
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Red

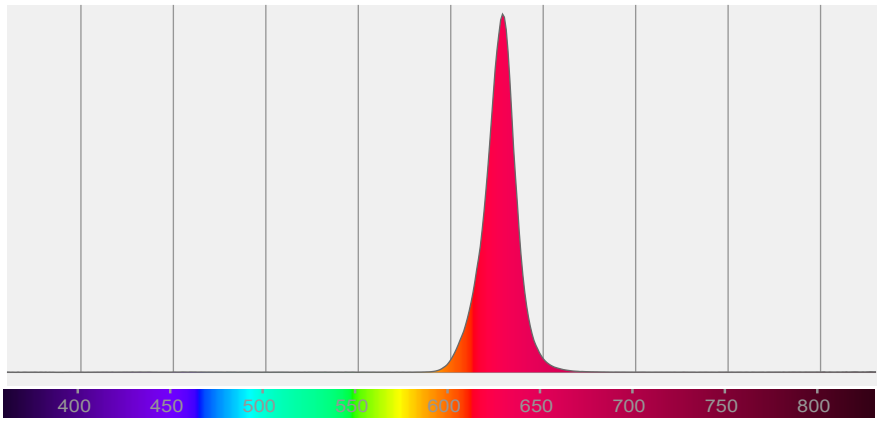
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:02:21



Beam angle 50%: 15°
Field angle 10%: 26,4°
Cut off angle 2.5%: 37,9°

Spectra



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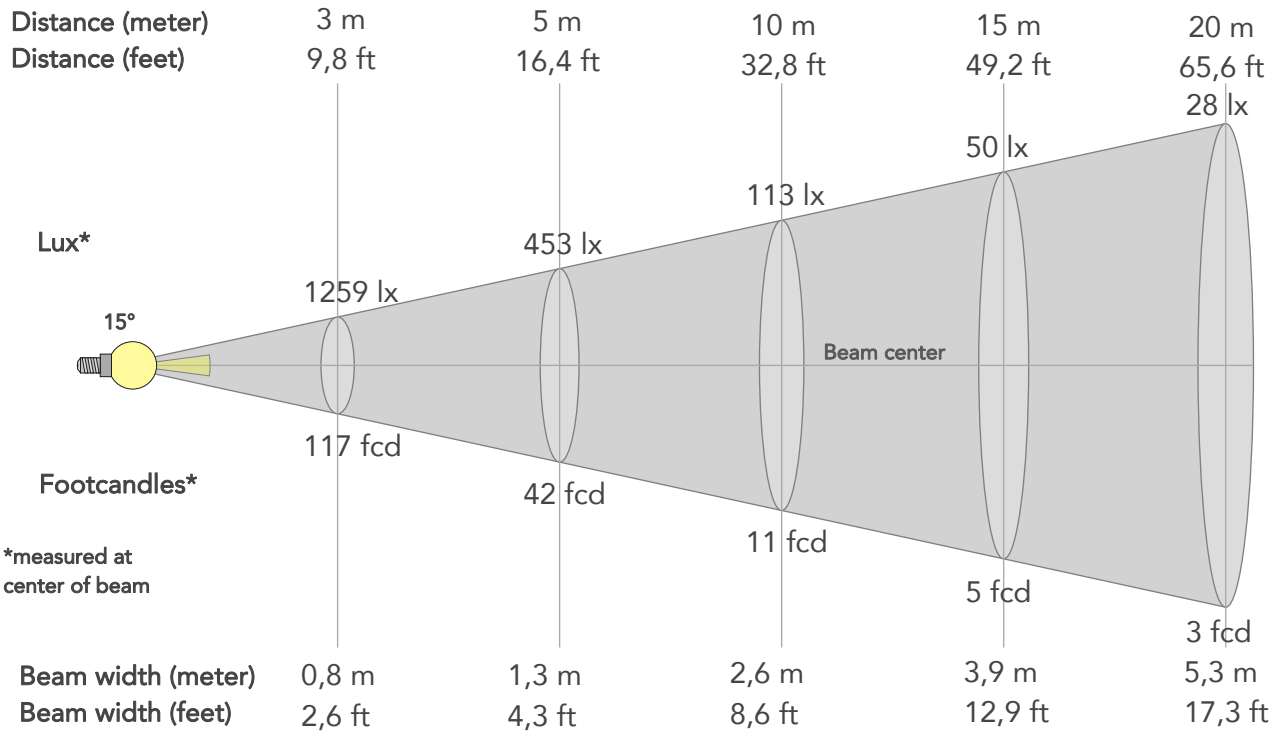
BEAM DETAILS

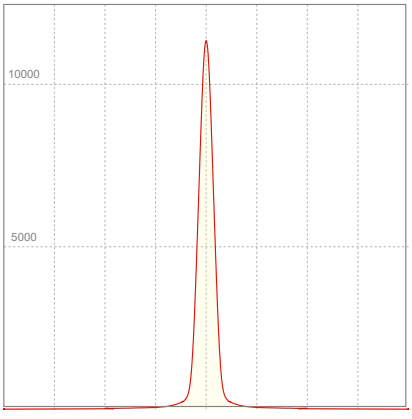
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15°	26,4°	37,9°	88,7%	84,0%



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	11328lx	2832lx	1259lx	708lx	453lx	201lx	113lx	50lx	28lx	18lx	13lx	7lx	5lx
Footcand.	1052fcd	263fcd	117fcd	66fcd	42fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	3,9m	5,3m	6,6m	7,9m	10,5m	13,1m
Beam wid.	0,9ft	1,7ft	2,6ft	3,4ft	4,3ft	6,5ft	8,6ft	12,9ft	17,3ft	21,6ft	25,9ft	34,5ft	43,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,156A	27,9W	0,79	43lm/W

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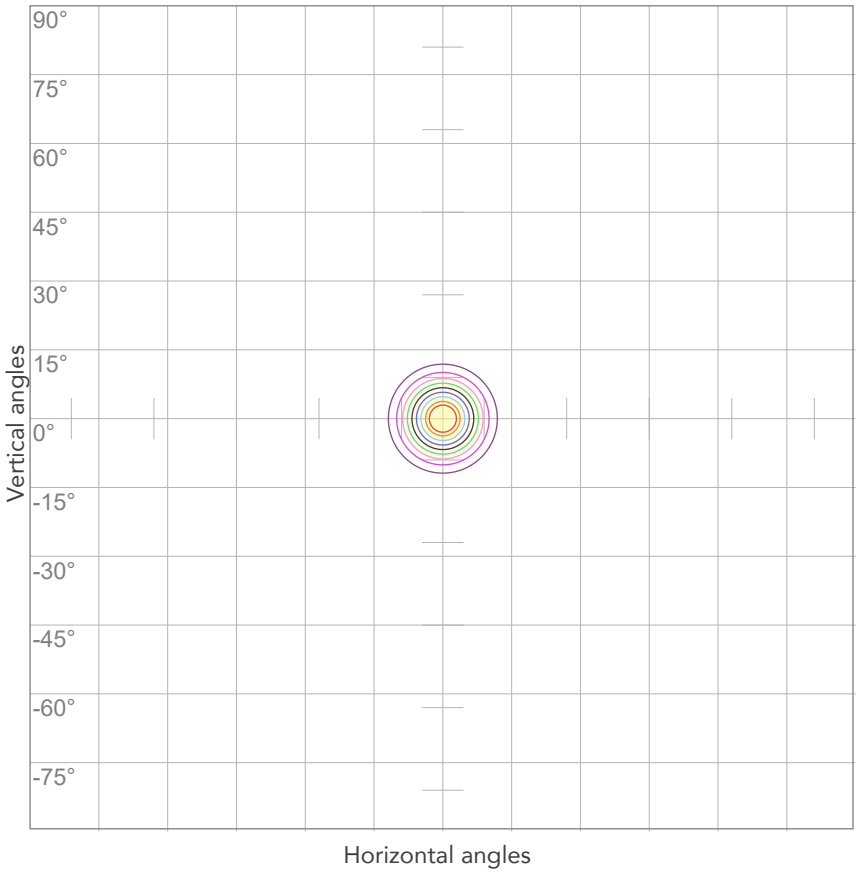
ISO DIAGRAMS

ISO CANDELA DIAGRAM



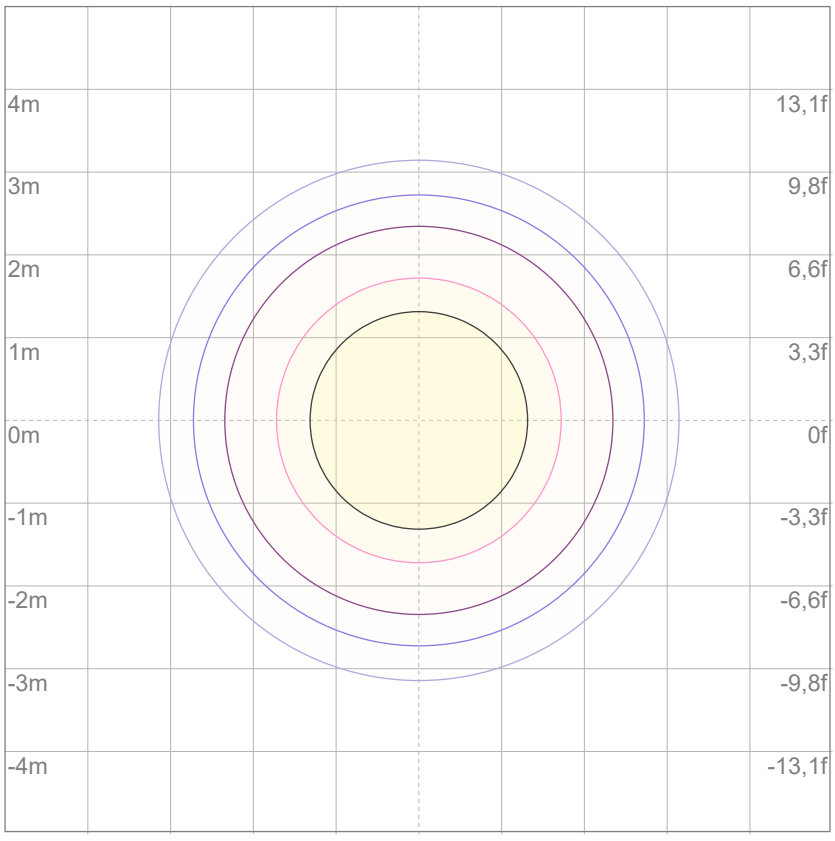
10%	1133 cd
20%	2266 cd
30%	3398 cd
40%	4531 cd
50%	5664 cd
60%	6797 cd
70%	7929 cd
80%	9062 cd

Conditions:

Number of c-planes: 2

Candela at center: 11328 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,40 lx
5%	5,66 lx
10%	11,3 lx
30%	34,0 lx
50%	56,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 113 lx

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

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Total lumen output:

2448 lm

Peak candela output:

25979 cd

PRODUCT NAME:

ARCSPOTMFC

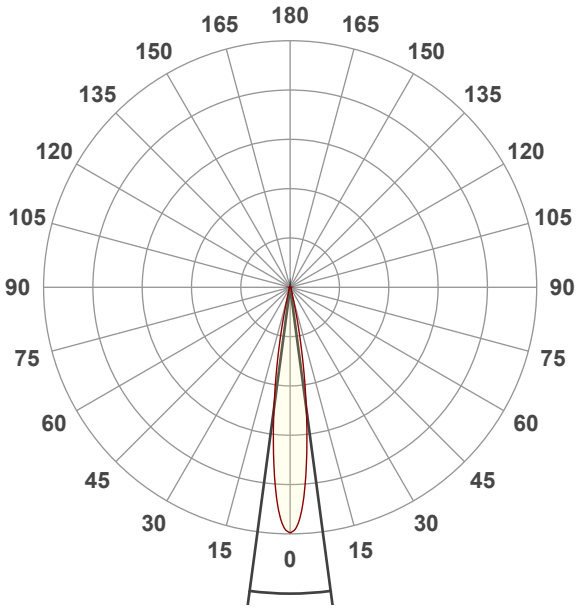
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Green

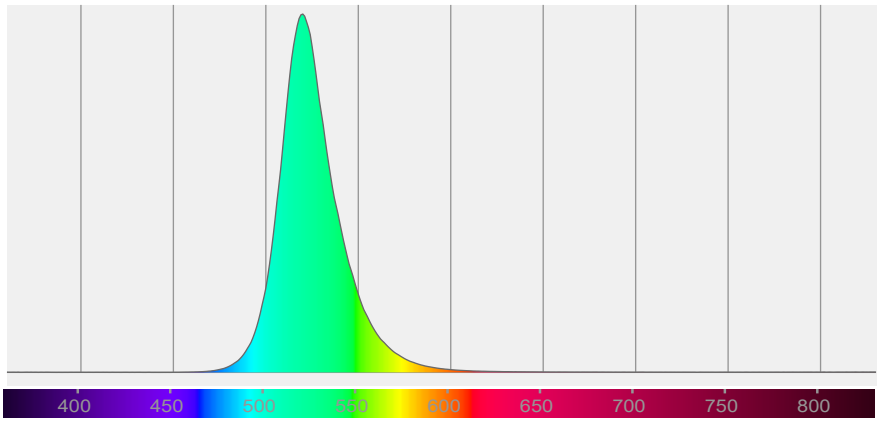
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:04:15



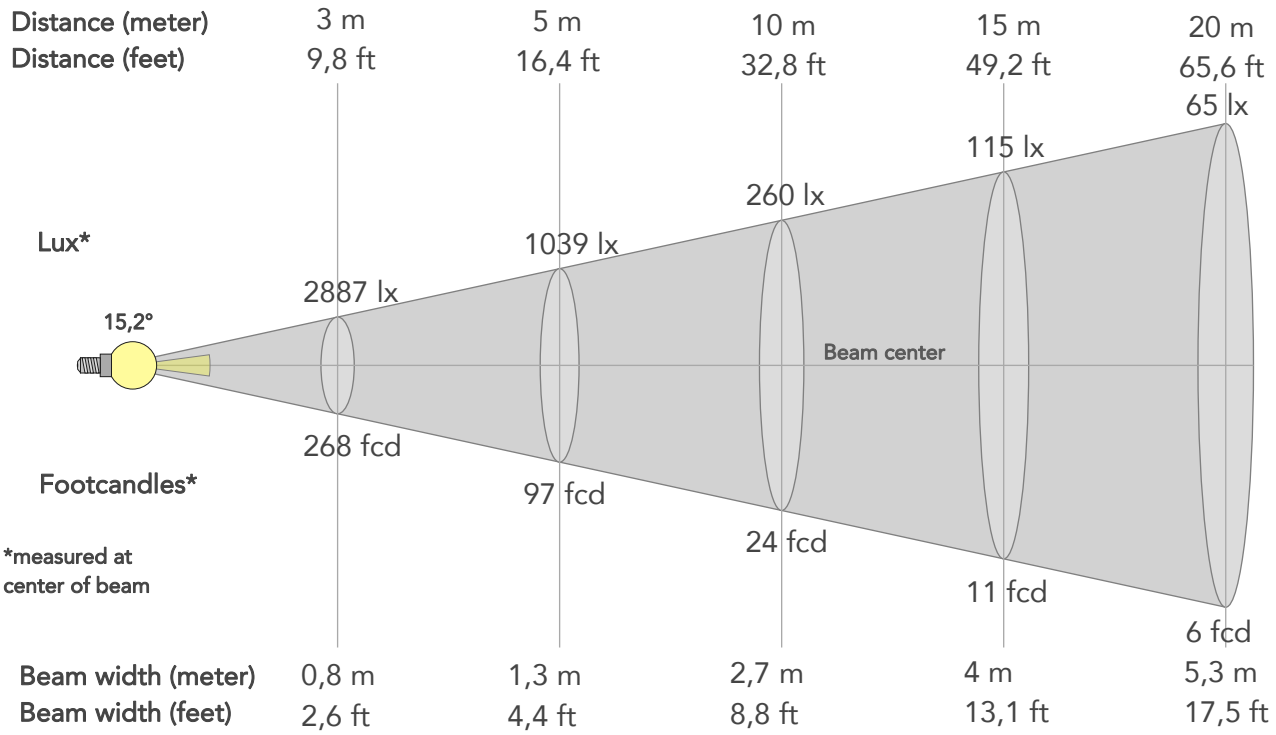
Beam angle 50%: 15,2°
Field angle 10%: 26,1°
Cut off angle 2.5%: 36,1°

Spectra



BEAM DETAILS

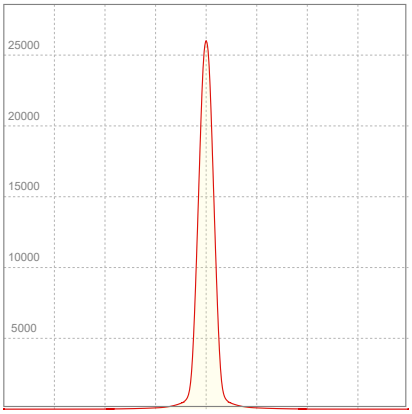
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,2°	26,1°	36,1°	96,1%	92,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	25979lx	6495lx	2887lx	1624lx	1039lx	462lx	260lx	115lx	65lx	42lx	29lx	16lx	10lx
Footcand.	2414fcd	603fcd	268fcd	151fcd	97fcd	43fcd	24fcd	11fcd	6fcd	4fcd	3fcd	2fcd	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	8,8ft	13,1ft	17,5ft	21,9ft	26,3ft	35ft	43,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,183A	34,3W	0,83	71lm/W

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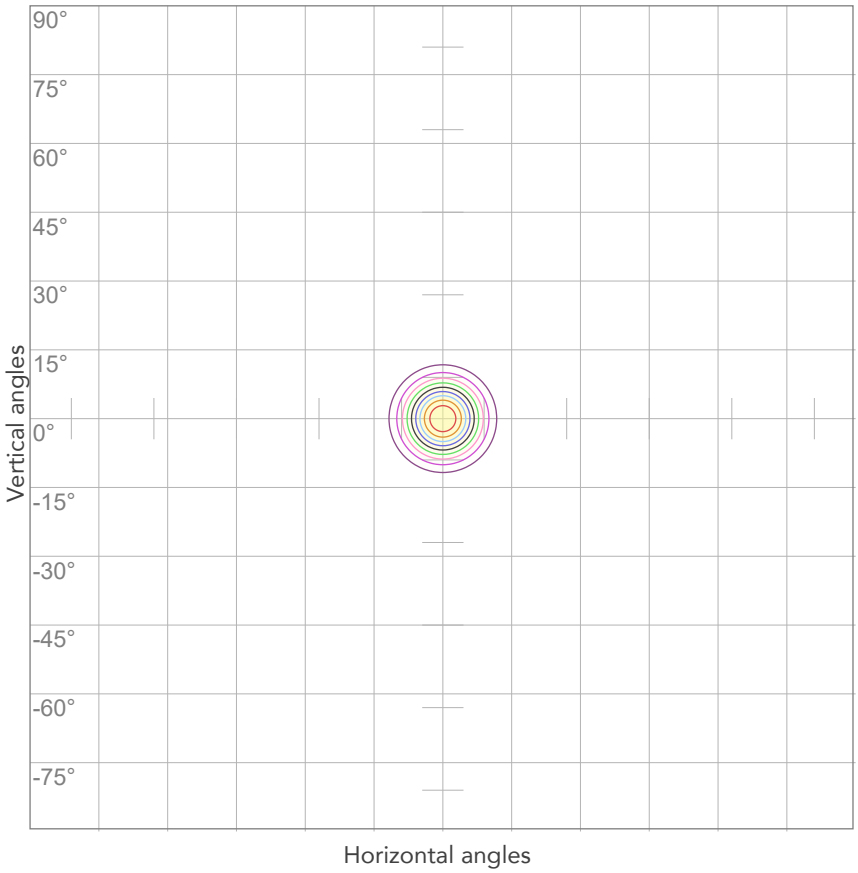
ISO DIAGRAMS

ISO CANDELA DIAGRAM



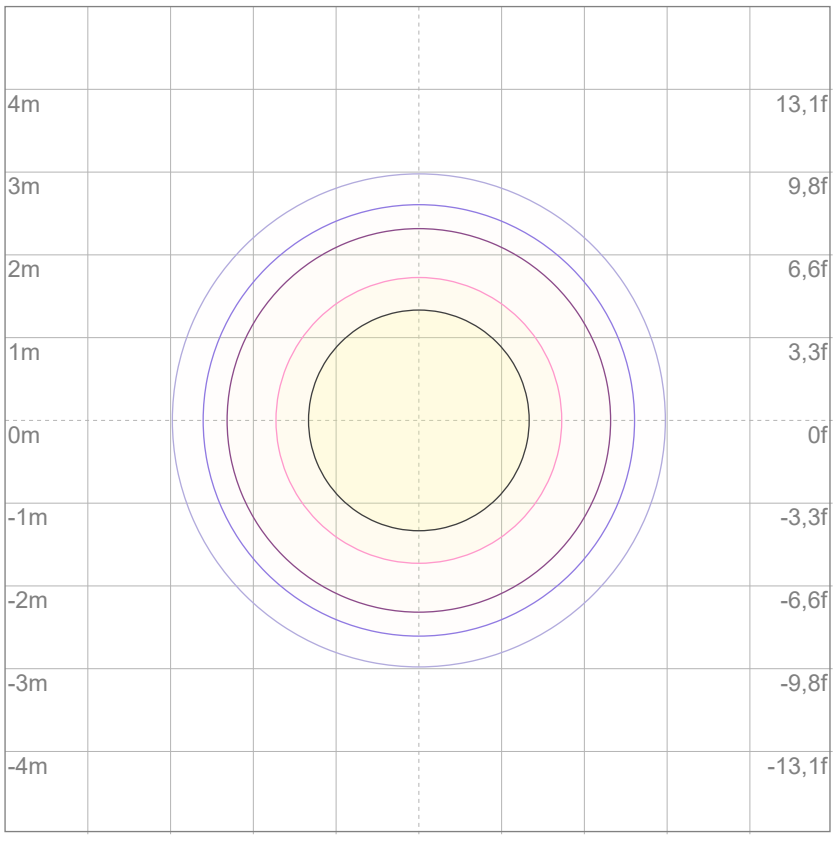
10%	2598 cd
20%	5196 cd
30%	7794 cd
40%	10392 cd
50%	12990 cd
60%	15587 cd
70%	18185 cd
80%	20783 cd

Conditions:

Number of c-planes: 2

Candela at center: 25979 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	7,79 lx
5%	13,0 lx
10%	26,0 lx
30%	77,9 lx
50%	130 lx

Conditions:

Number of c-planes: 2

Lux at center: 260 lx

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

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Total lumen output:

609 lm

Peak candela output:

4784 cd

PRODUCT NAME:

ARCSPOTMFC

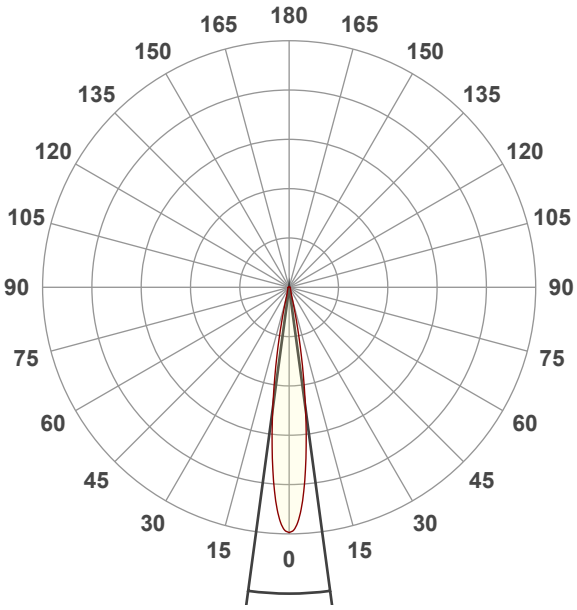
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
Blue

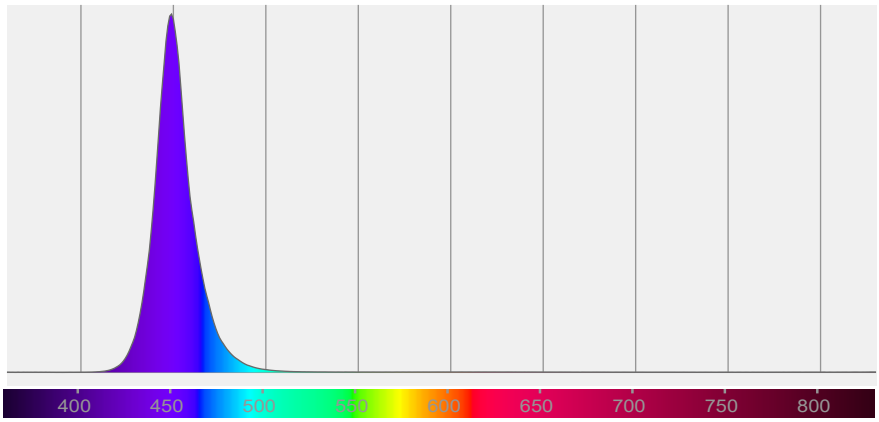
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:05:33



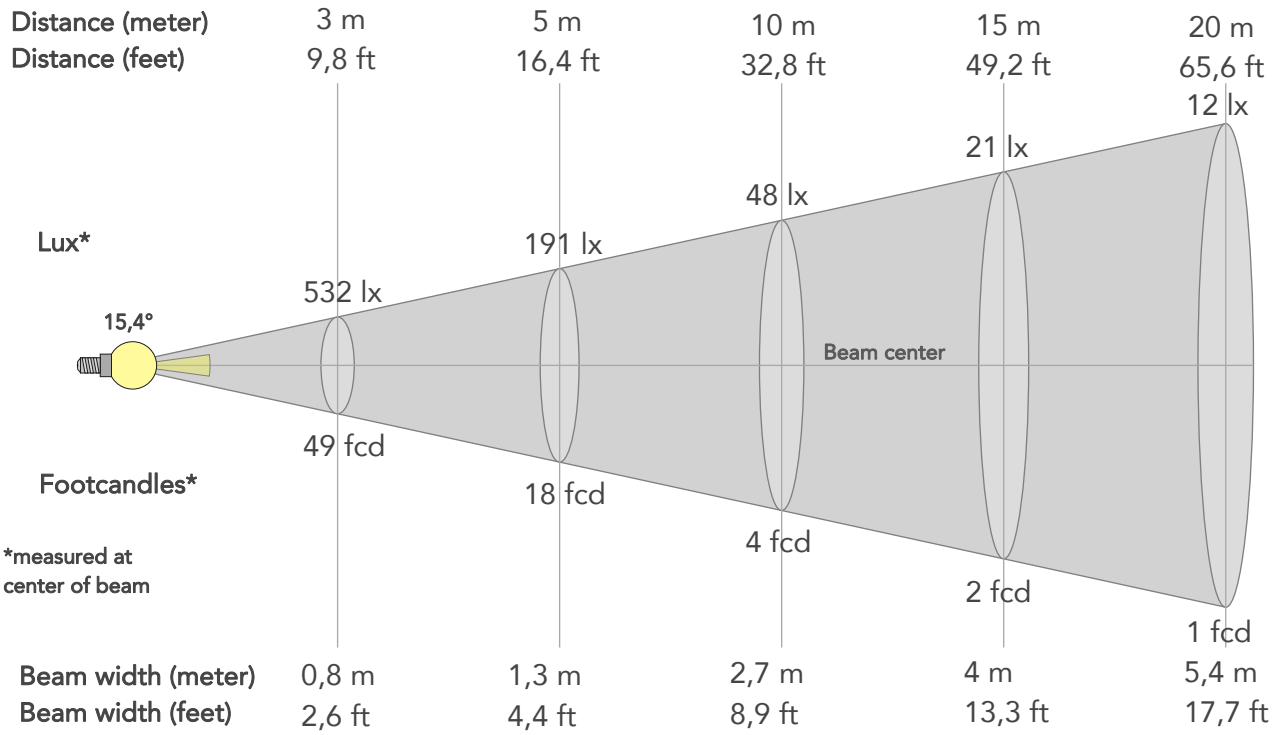
Beam angle 50%: 15,4°
Field angle 10%: 26,4°
Cut off angle 2.5%: 38,3°

Spectra



BEAM DETAILS

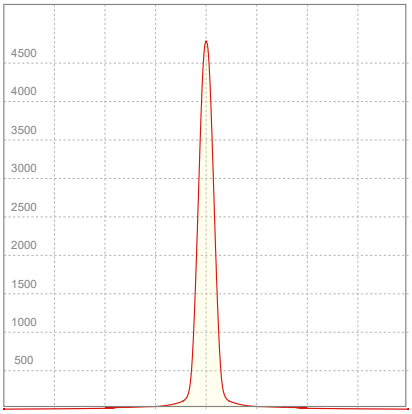
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,4°	26,4°	38,3°	81,1%	74,6%



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	4784lx	1196lx	532lx	299lx	191lx	85lx	48lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	444fcd	111fcd	49fcd	28fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	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	Power FC	Effeciency
225V	0,187A	35,2W	0,84	171m/W

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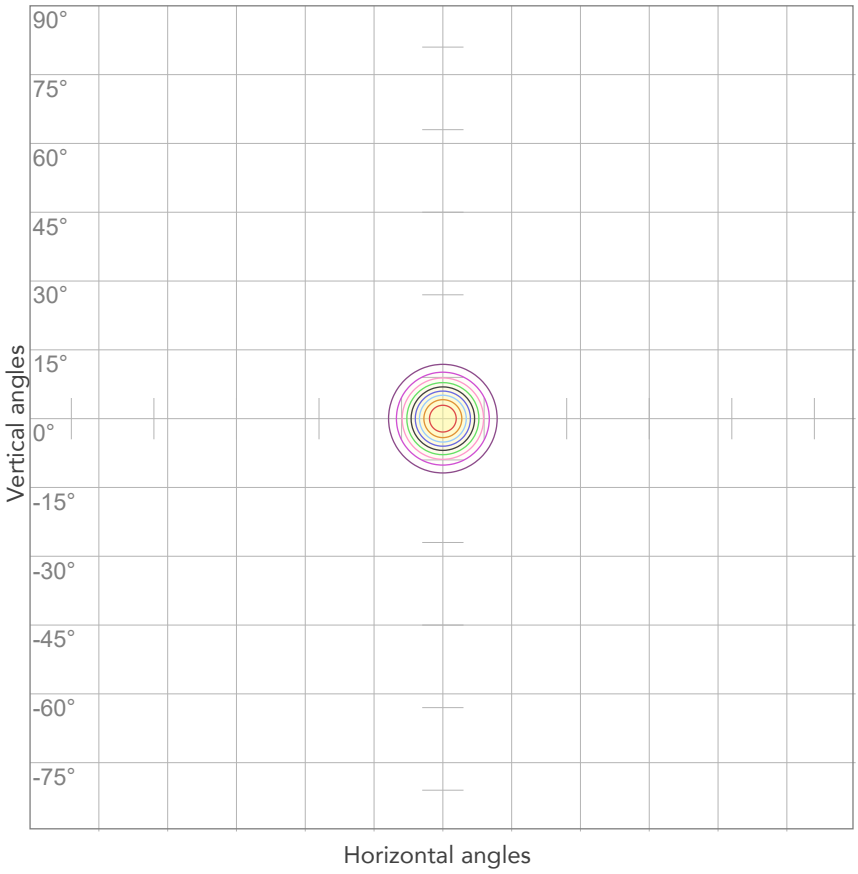
ISO DIAGRAMS

ISO CANDELA DIAGRAM



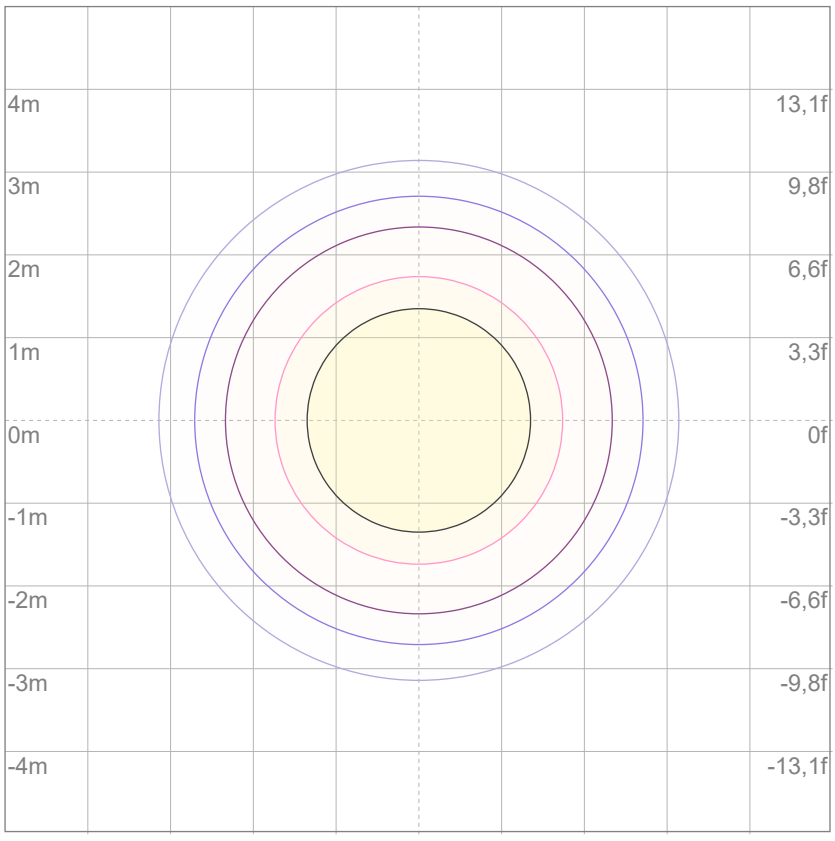
10%	478 cd
20%	957 cd
30%	1435 cd
40%	1914 cd
50%	2392 cd
60%	2871 cd
70%	3349 cd
80%	3828 cd

Conditions:

Number of c-planes: 2

Candela at center: 4784 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,44 lx
5%	2,39 lx
10%	4,78 lx
30%	14,4 lx
50%	23,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 47,8 lx

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

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Total lumen output:

3047 lm

Peak candela output:

33075 cd

Light quality:

CRI: 83,5

Color temperature:

2902 K

PRODUCT NAME:

ARCSPOTMFC

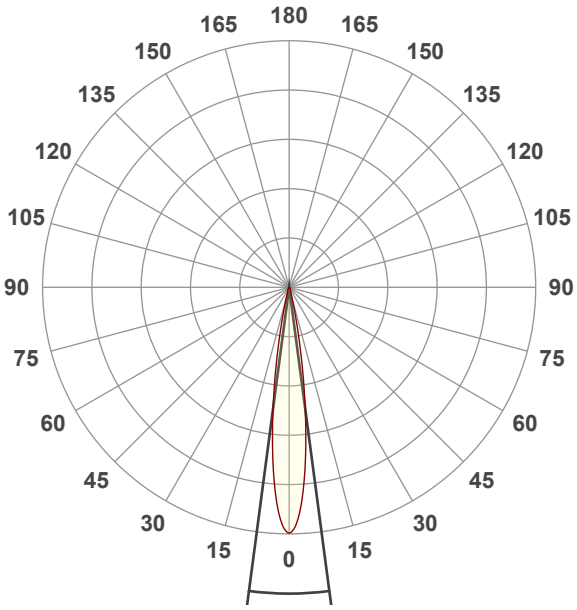
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
White

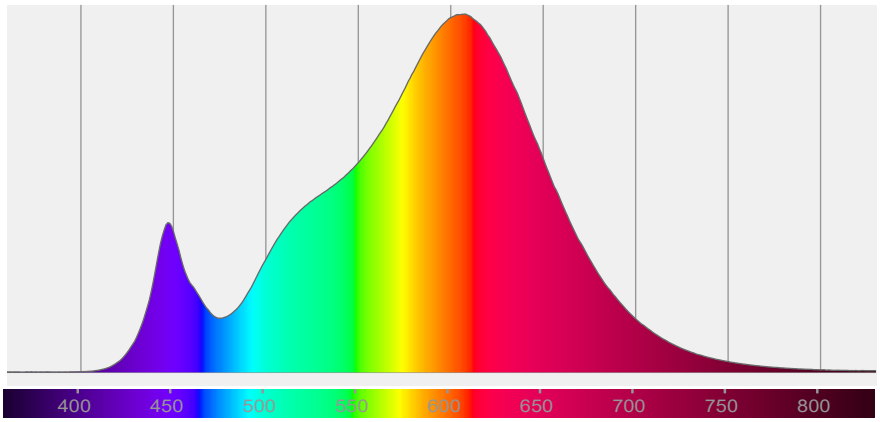
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:06:49

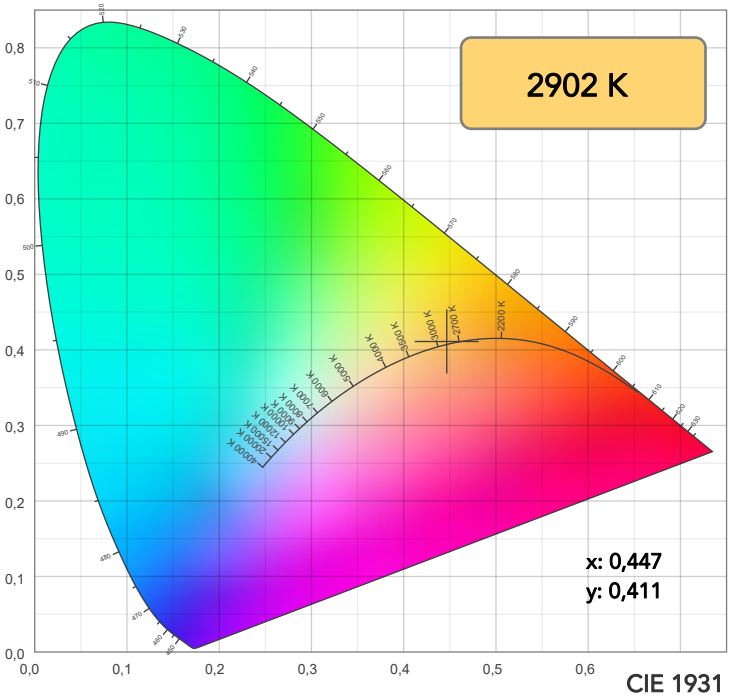


Beam angle 50%: 15,1°
Field angle 10%: 26°
Cut off angle 2.5%: 36,1°

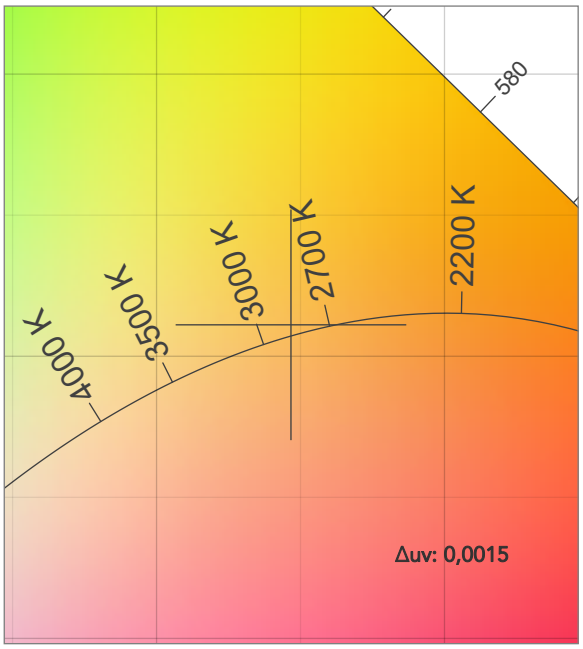
Spectra



COLOR DETAILS

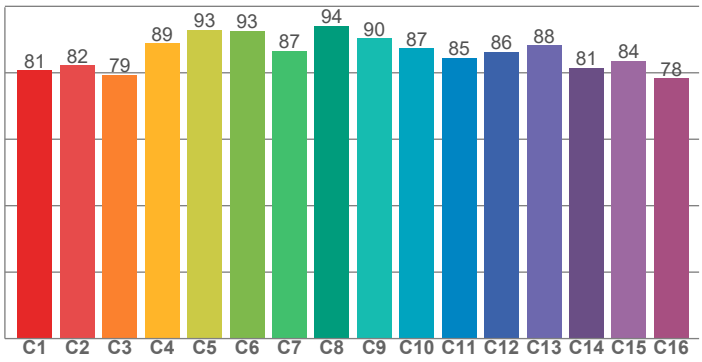


CIE 1931

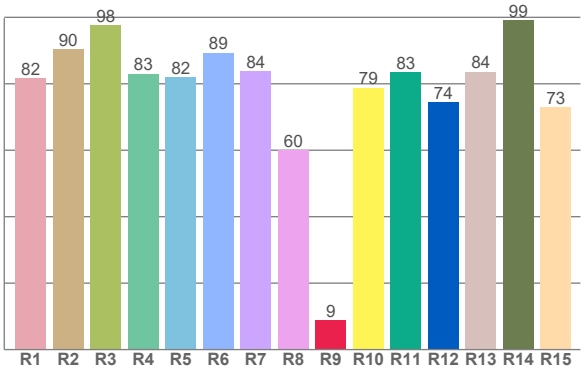


CIE 1931 ZOOM

TM30: 86,0



CRI: 83,5 (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
81,7	90,5	97,6	83,0	81,9	89,3	83,9	60,1	8,8	78,8	83,4	74,4	83,6	99,1	72,9

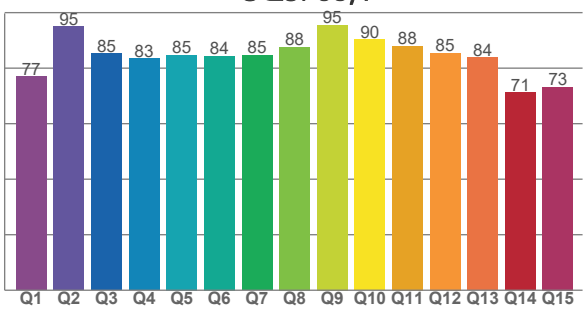
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,8	82,2	79,3	88,8	92,9	92,7	86,6	94,1	90,4	87,4	84,6	86,4	88,2	81,5	83,6	78,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,9	95,0	85,2	83,4	84,8	84,3	84,6	87,6	95,5	90,3	88,1	85,4	83,8	71,3	73,2

CQS: 83,1



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2902 K	83,5	8,8	86,0	96,6	83,1	69	0,447	0,411	0,0015

TM30 DETAILS

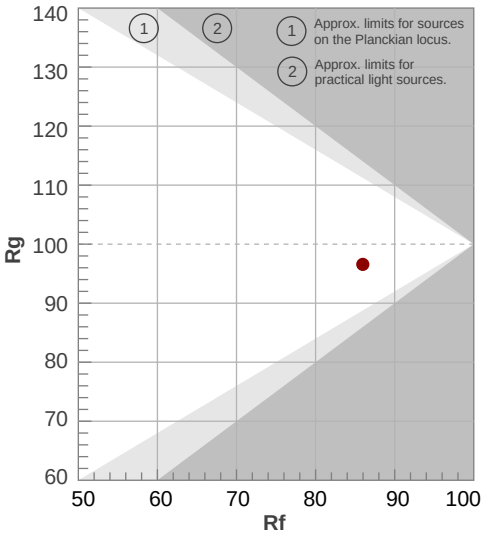
Rf 86,0

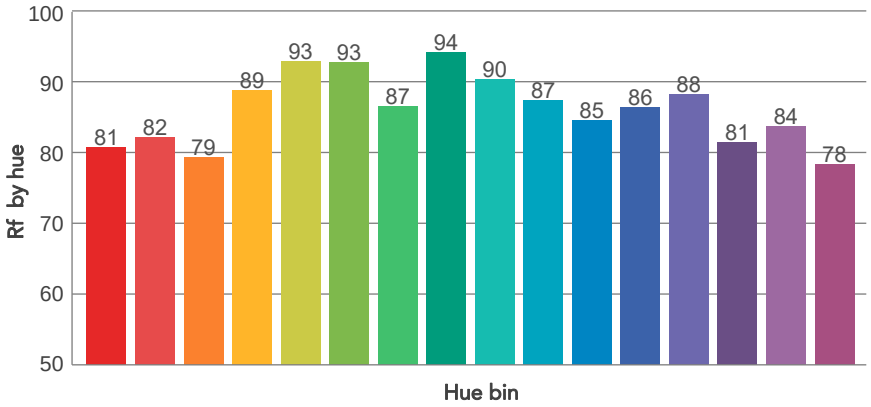
Fidelity index Rf

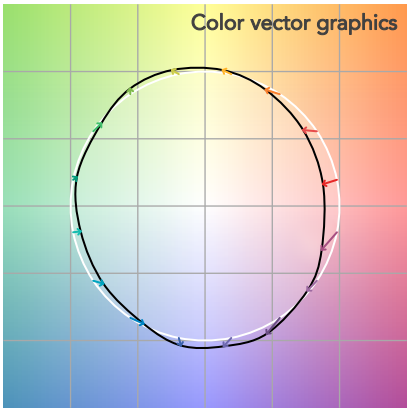
Rg 96,6

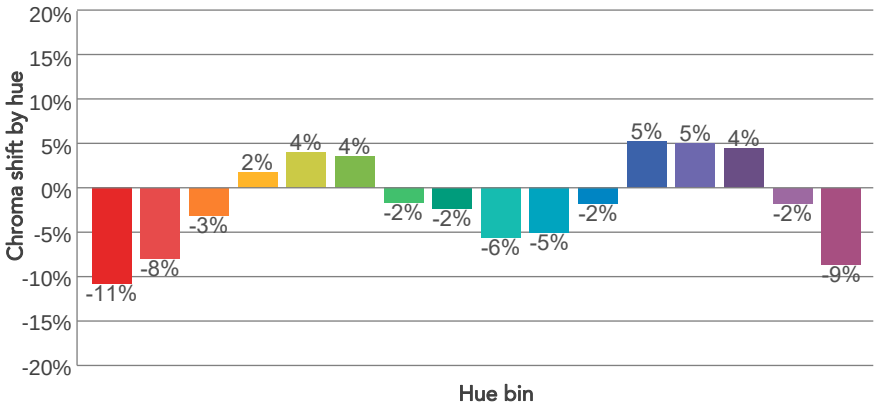
Gammut index

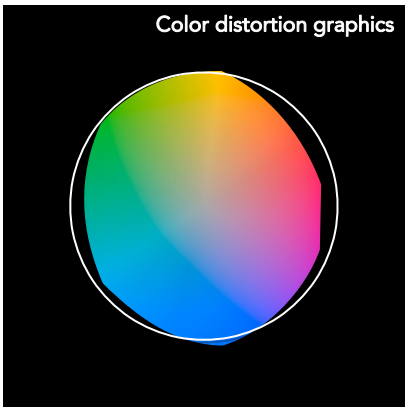
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	81	-11%	-1%
2	82	-8%	6%
3	79	-3%	11%
4	89	2%	7%
5	93	4%	4%
6	93	4%	-2%
7	87	-2%	-8%
8	94	-2%	-2%
9	90	-6%	0%
10	87	-5%	6%
11	85	-2%	11%
12	86	5%	3%
13	88	5%	-7%
14	81	4%	-15%
15	84	-2%	-10%
16	78	-9%	-15%

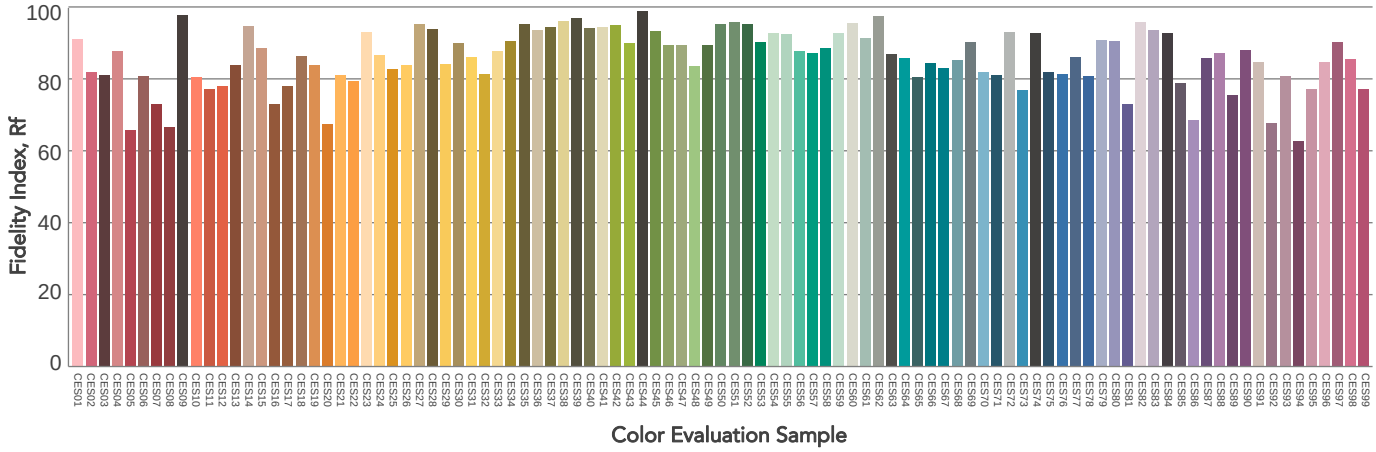












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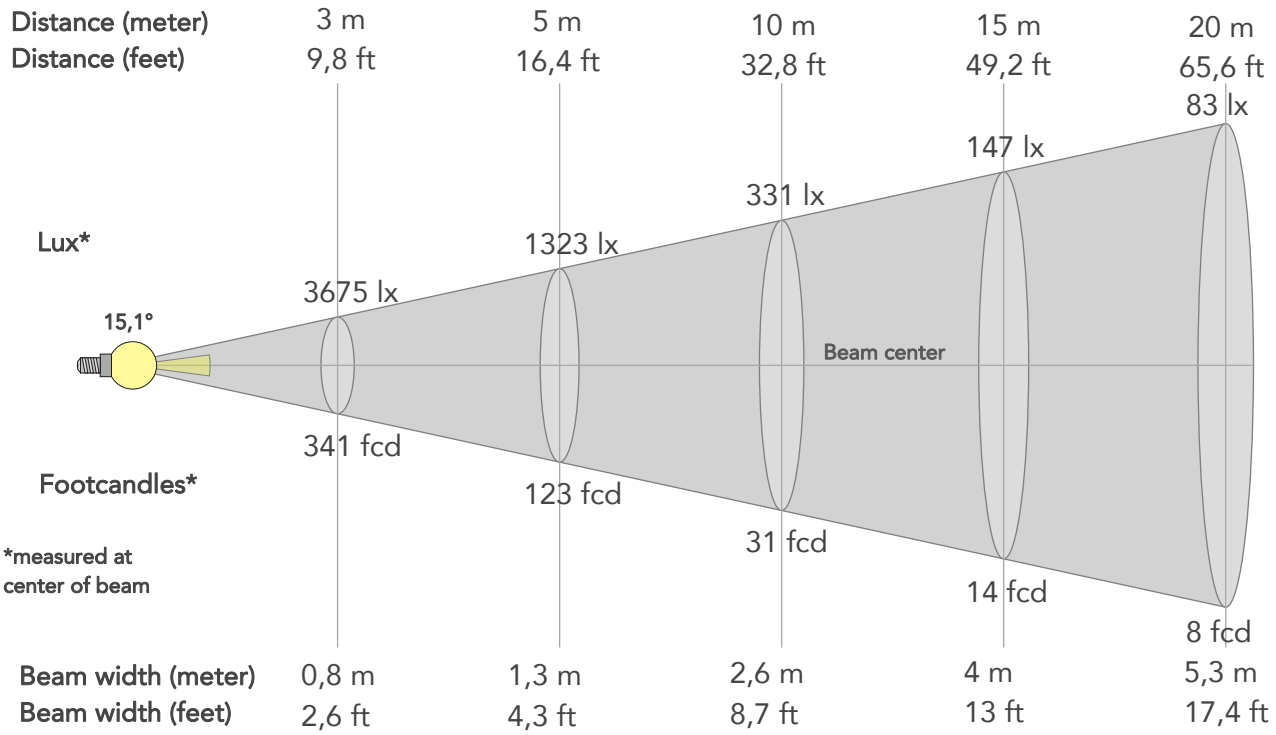
BEAM DETAILS

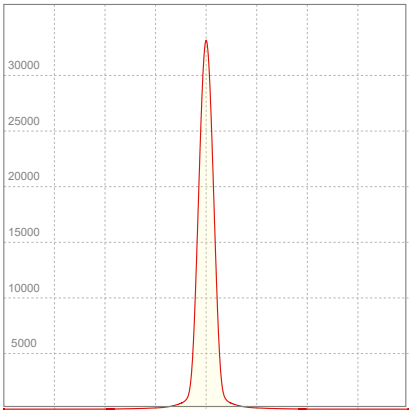
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26°	36,1°	96,7%	93,4%



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	33075lx	8269lx	3675lx	2067lx	1323lx	588lx	331lx	147lx	83lx	53lx	37lx	21lx	13lx
Footcand.	3073fcd	768fcd	341fcd	192fcd	123fcd	55fcd	31fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	4m	5,3m	6,6m	7,9m	10,6m	13,2m
Beam wid.	0,9ft	1,7ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26ft	34,7ft	43,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,232A	45,8W	0,88	67lm/W

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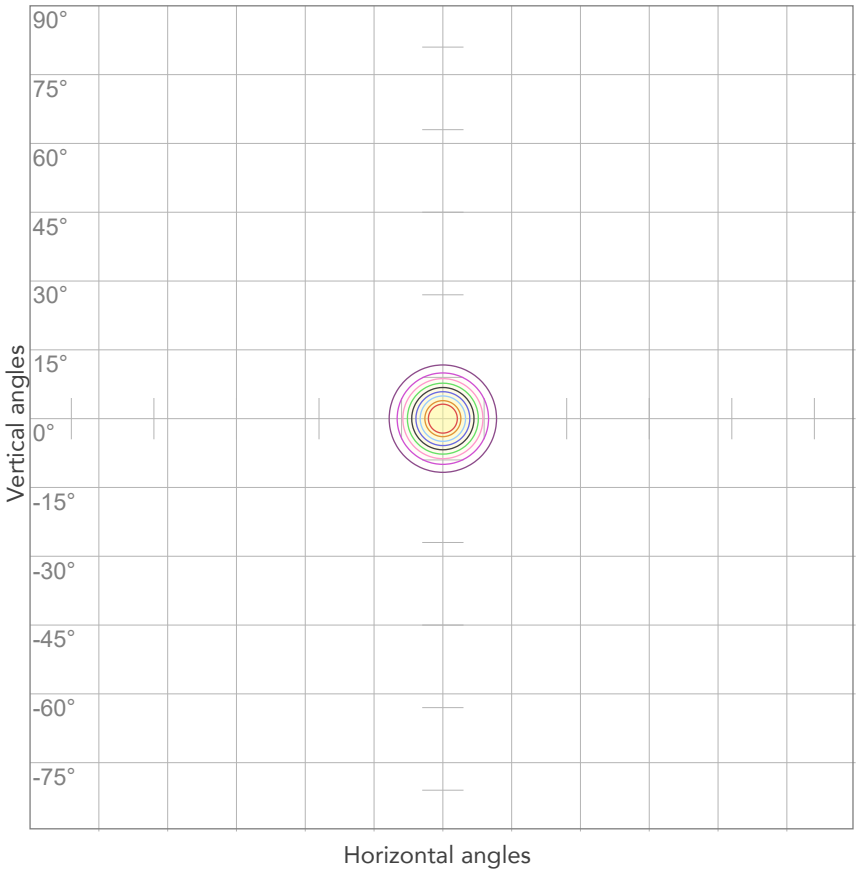
ISO DIAGRAMS

ISO CANDELA DIAGRAM



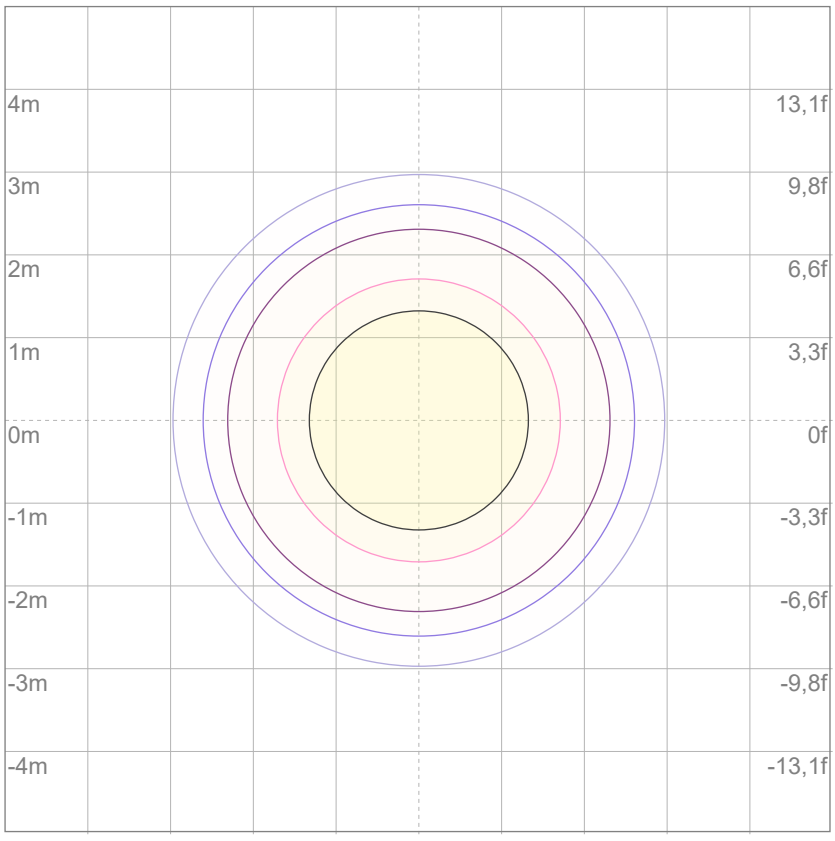
10%	3308 cd
20%	6615 cd
30%	9923 cd
40%	13230 cd
50%	16538 cd
60%	19845 cd
70%	23153 cd
80%	26460 cd

Conditions:

Number of c-planes: 2

Candela at center: 33075 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,92 lx
5%	16,5 lx
10%	33,1 lx
30%	99,2 lx
50%	165 lx

Conditions:

Number of c-planes: 2

Lux at center: 331 lx

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

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Total lumen output:

4440 lm

Peak candela output:

47121 cd

Light quality:

CRI: 83,3

Color temperature:

2753 K

PRODUCT NAME:

ARCSPOTMFC

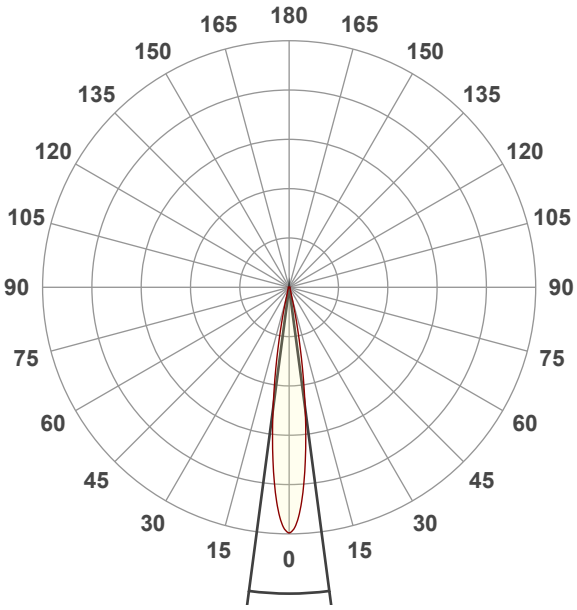
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
2800K

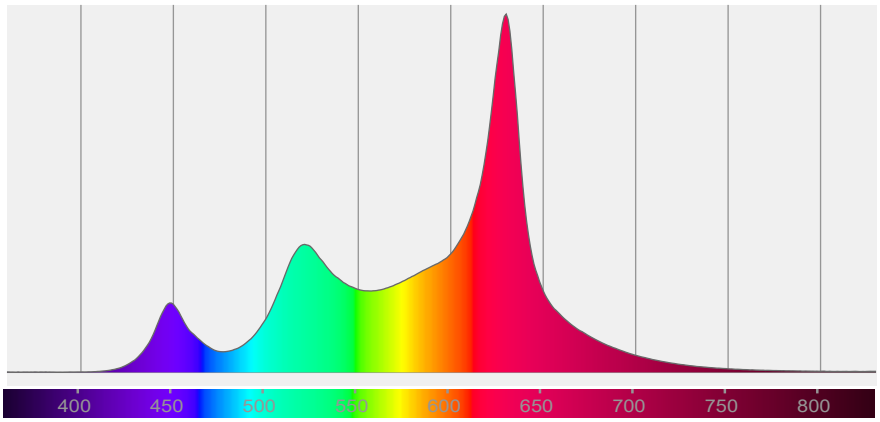
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:16:55

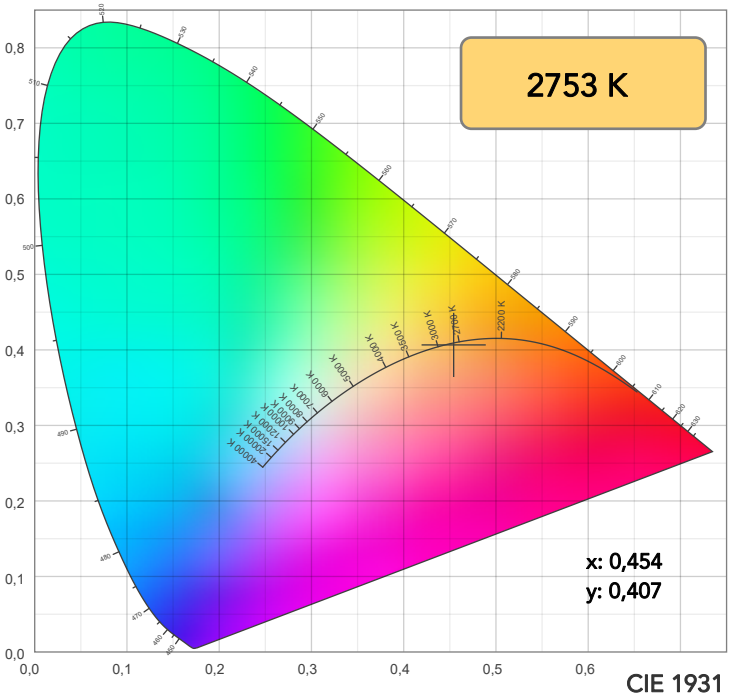


Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 36,2°

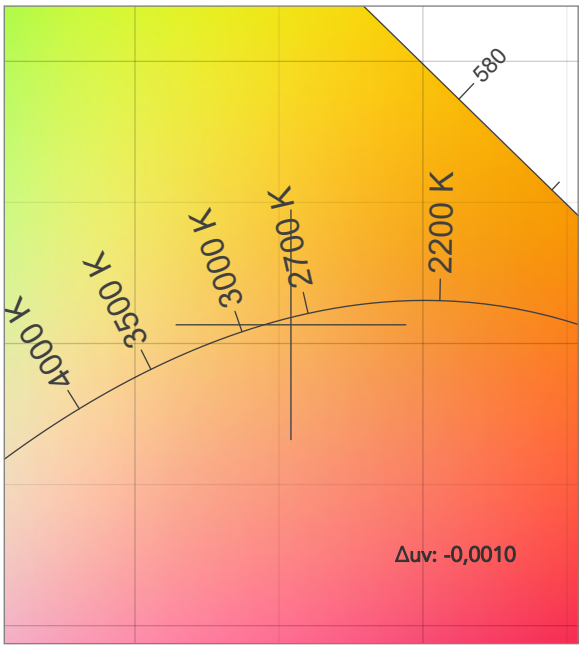
Spectra



COLOR DETAILS

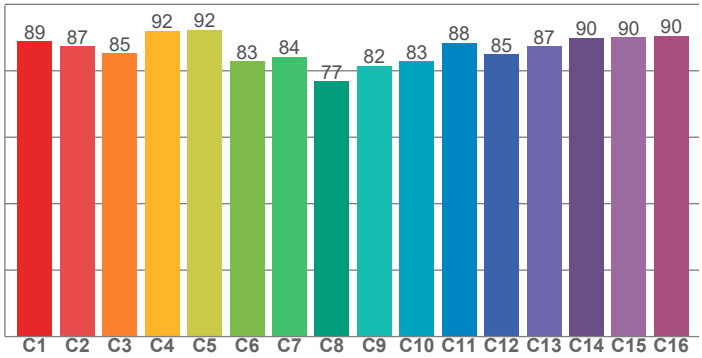


CIE 1931

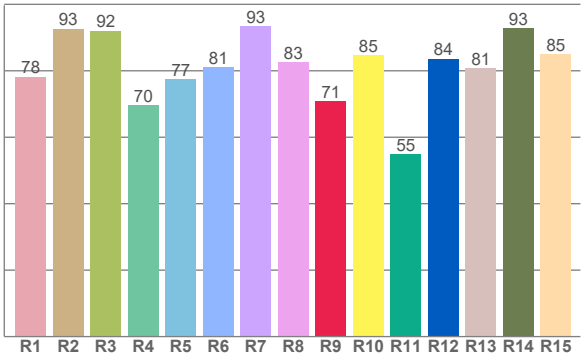


CIE 1931 ZOOM

TM30: 87,2



CRI: 83,3 (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
78,2	92,6	92,0	69,6	77,4	81,0	93,4	82,6	70,8	84,7	54,8	83,6	80,9	92,8	84,9

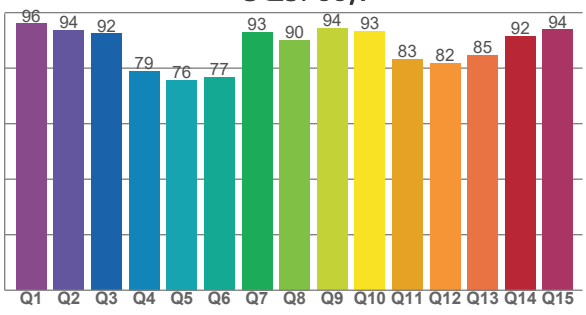
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,9	87,4	85,2	91,9	92,4	82,8	84,3	76,8	81,6	82,8	88,3	85,0	87,4	89,9	90,1	90,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	93,6	92,4	78,9	75,7	76,7	93,0	90,1	94,4	93,4	83,3	81,9	84,7	91,6	93,9

CQS: 85,9



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2753 K	83,3	70,8	87,2	109,1	85,9	64	0,454	0,407	-0,0010

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TM30 DETAILS

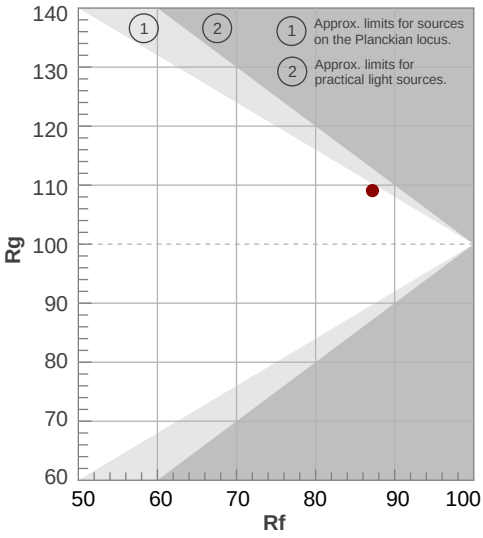
Rf 87,2

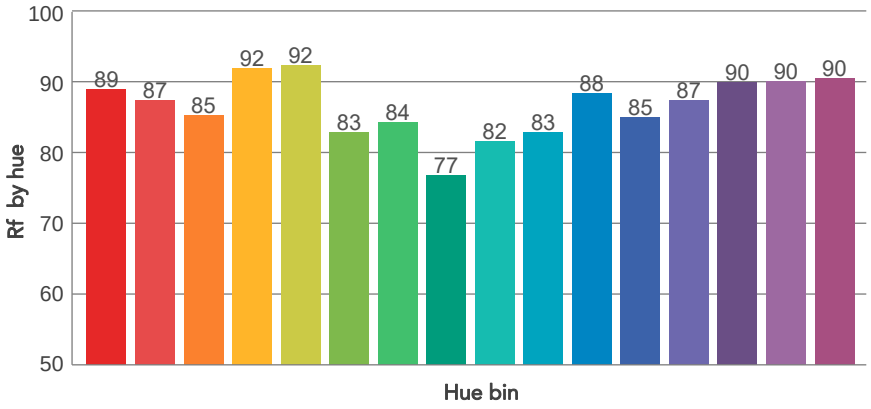
Fidelity index Rf

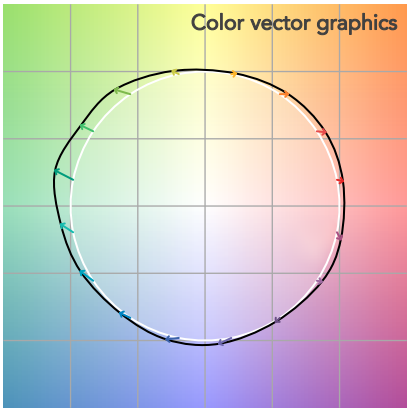
Rg 109,1

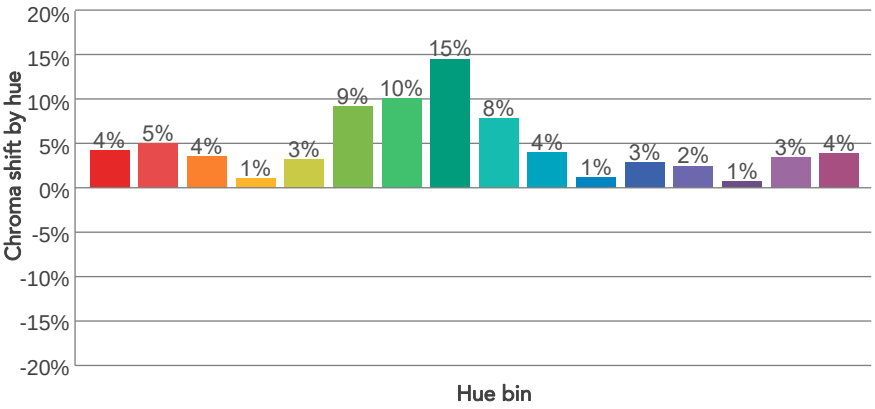
Gammut index

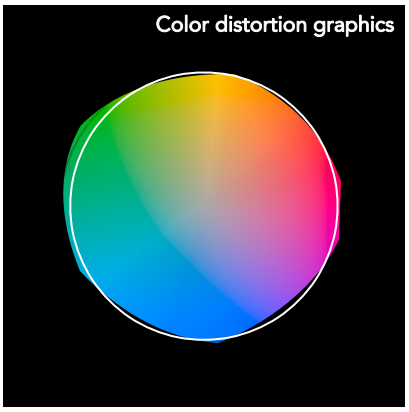
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	89	4%	-2%
2	87	5%	-4%
3	85	4%	-5%
4	92	1%	-3%
5	92	3%	4%
6	83	9%	8%
7	84	10%	1%
8	77	15%	-4%
9	82	8%	-8%
10	83	4%	-11%
11	88	1%	-8%
12	85	3%	-9%
13	87	2%	-10%
14	90	1%	-4%
15	90	3%	1%
16	90	4%	-5%

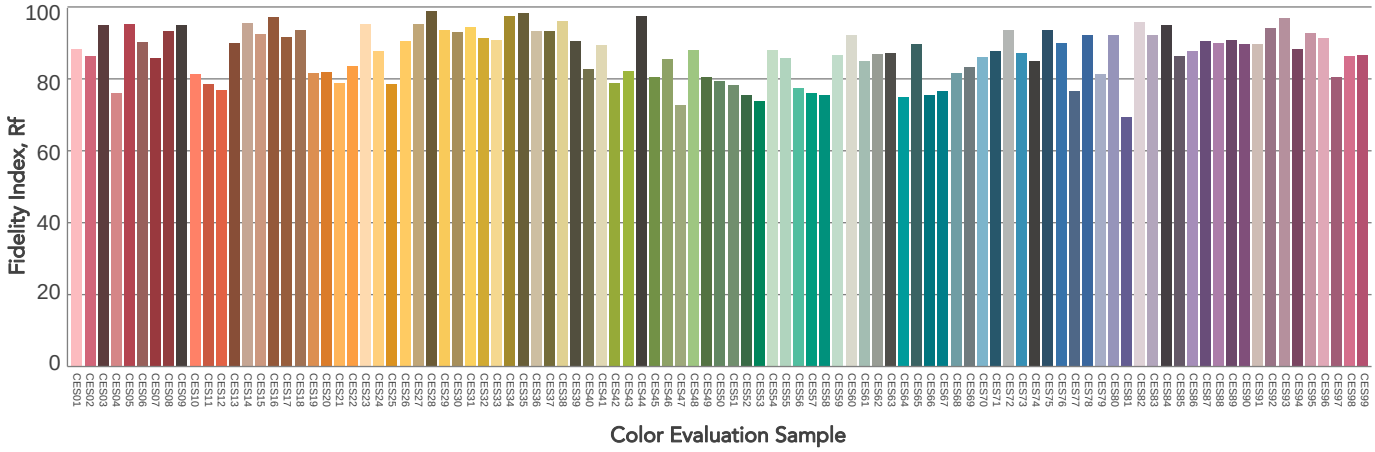












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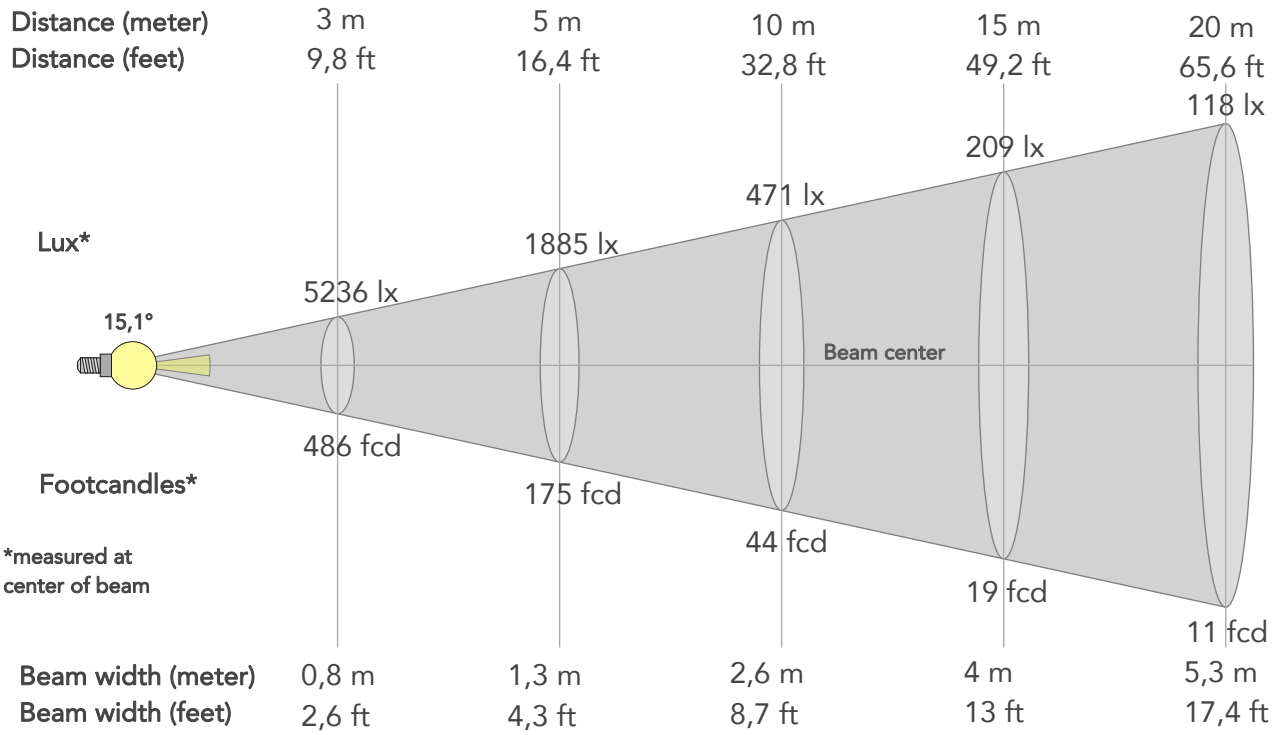
BEAM DETAILS

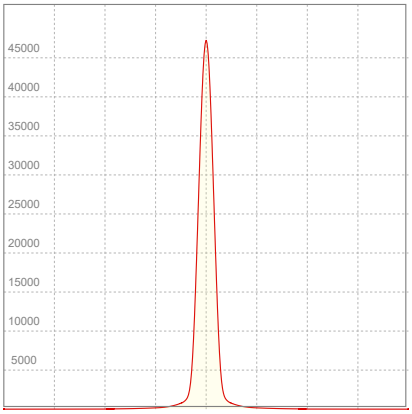
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	36,2°	95,3%	91,8%



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	47121lx	11780lx	5236lx	2945lx	1885lx	838lx	471lx	209lx	118lx	75lx	52lx	29lx	19lx
Footcand.	4378fcd	1094fcd	486fcd	274fcd	175fcd	78fcd	44fcd	19fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	4m	5,3m	6,6m	7,9m	10,6m	13,2m
Beam wid.	0,9ft	1,7ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26ft	34,7ft	43,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,351A	72,5W	0,92	61lm/W

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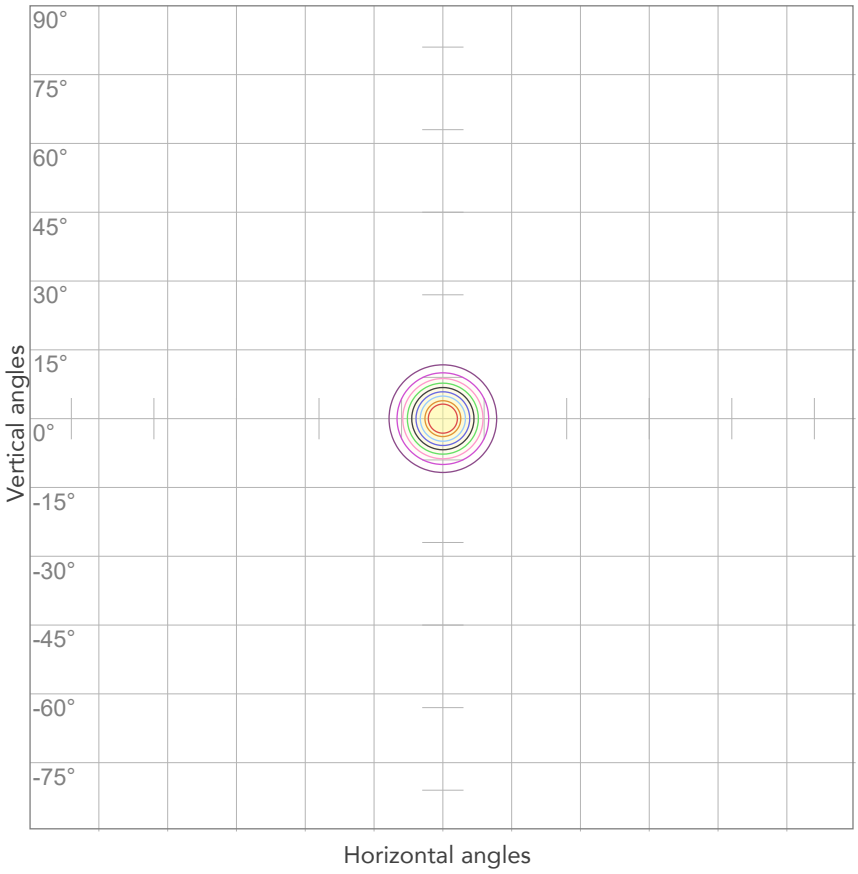
ISO DIAGRAMS

ISO CANDELA DIAGRAM



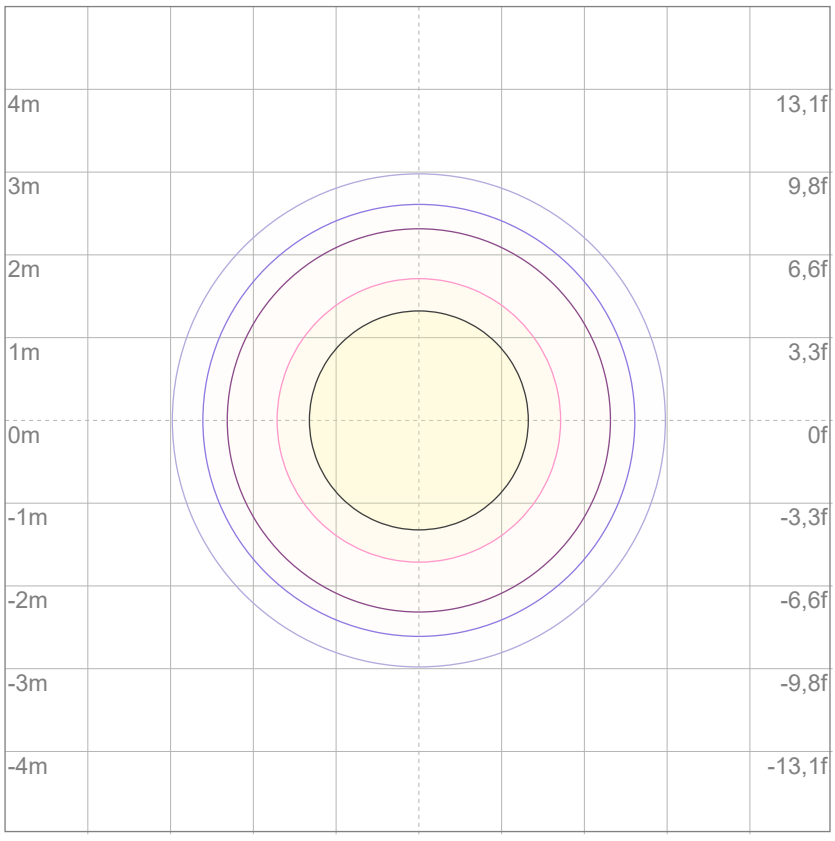
10%	4712 cd
20%	9424 cd
30%	14136 cd
40%	18849 cd
50%	23561 cd
60%	28273 cd
70%	32985 cd
80%	37697 cd

Conditions:

Number of c-planes: 2

Candela at center: 47121 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	14,1 lx
5%	23,6 lx
10%	47,1 lx
30%	141 lx
50%	236 lx

Conditions:

Number of c-planes: 2

Lux at center: 471 lx

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

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Total lumen output:

4642 lm

Peak candela output:

49028 cd

Light quality:

CRI: 83,4

Color temperature:

3173 K

PRODUCT NAME:

ARCSPOTMFC

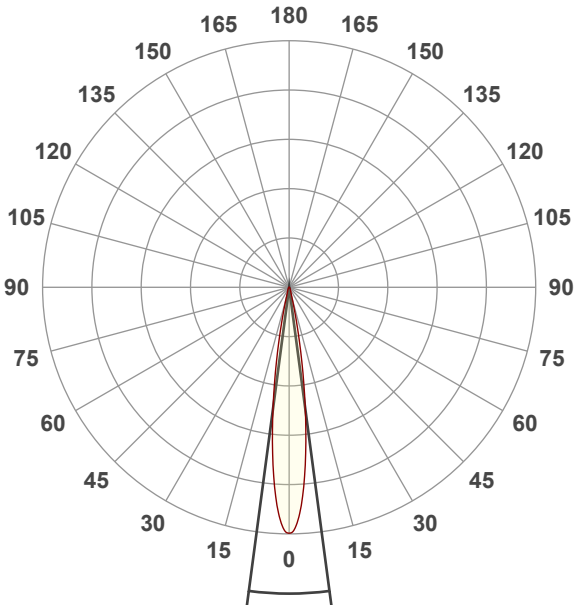
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
3200K

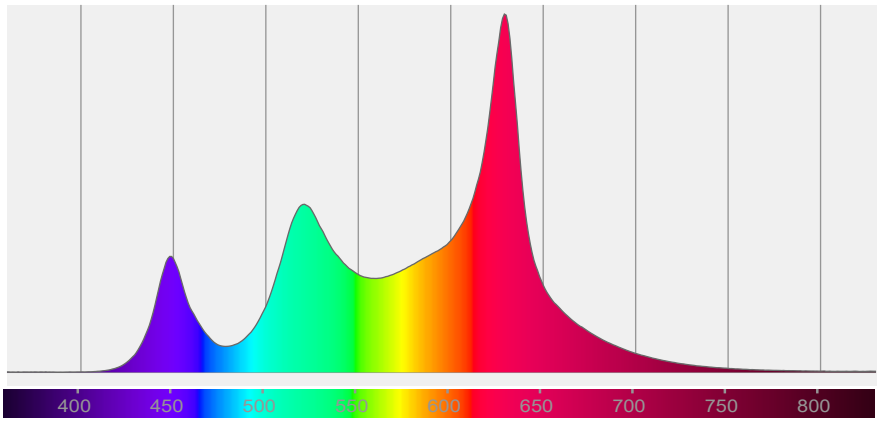
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:13:22

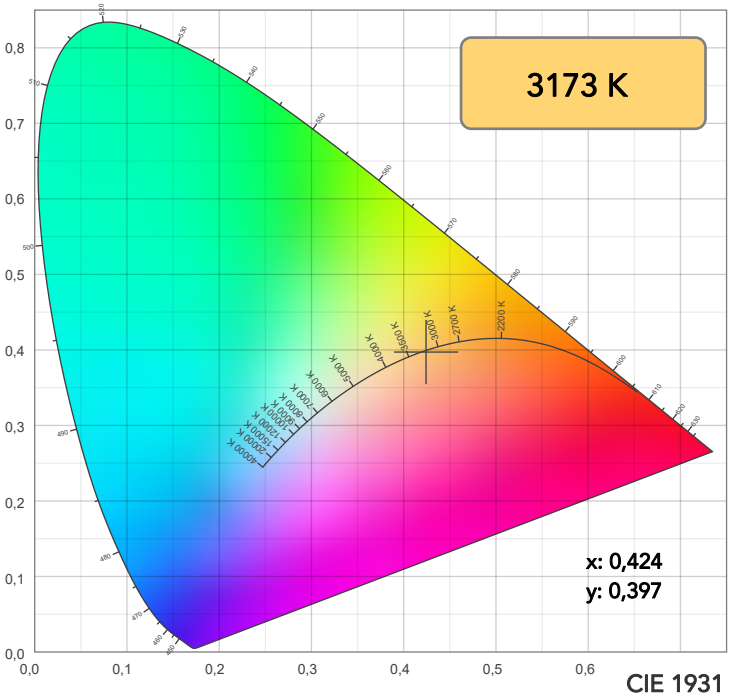


Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 36,3°

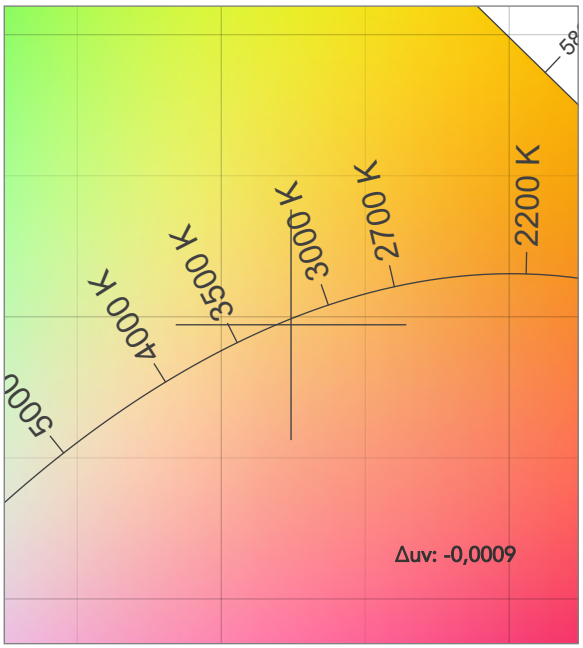
Spectra



COLOR DETAILS

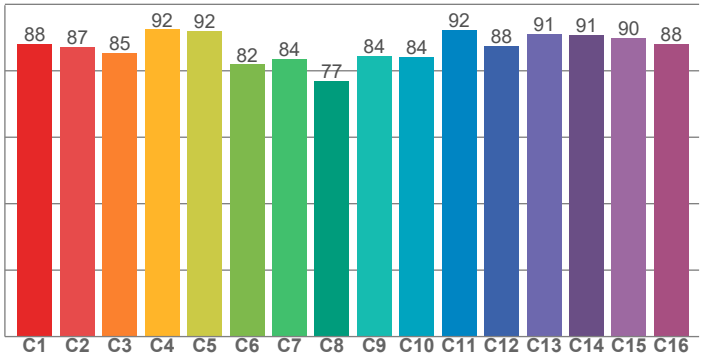


CIE 1931

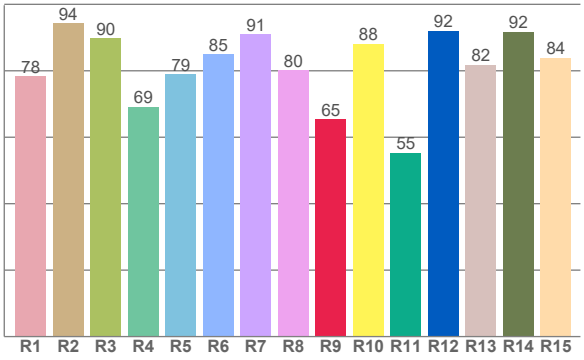


CIE 1931 ZOOM

TM30: 87,9



CRI: 83,4 (R1-R8)



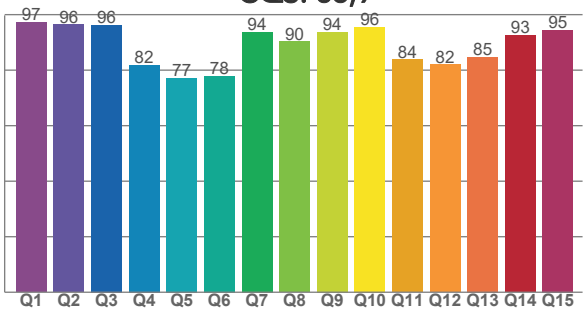
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
78,4	94,4	89,8	69,1	78,9	85,0	91,0	80,2	65,4	88,2	55,4	92,0	81,8	91,7	83,9

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
88,1	87,1	85,4	92,5	92,0	82,0	83,6	77,0	84,4	84,2	92,3	87,6	91,2	90,9	89,9	88,1

CQS: 86,9



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	96,5	96,3	81,9	77,2	77,8	93,7	90,3	93,8	95,5	83,8	82,0	84,7	92,5	94,5

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
3173 K	83,4	65,4	87,9	110,1	86,9	65	0,424	0,397	-0,0009

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TM30 DETAILS

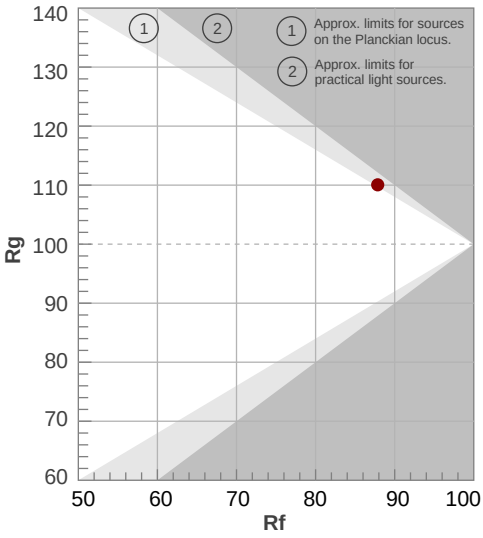
Rf 87,9

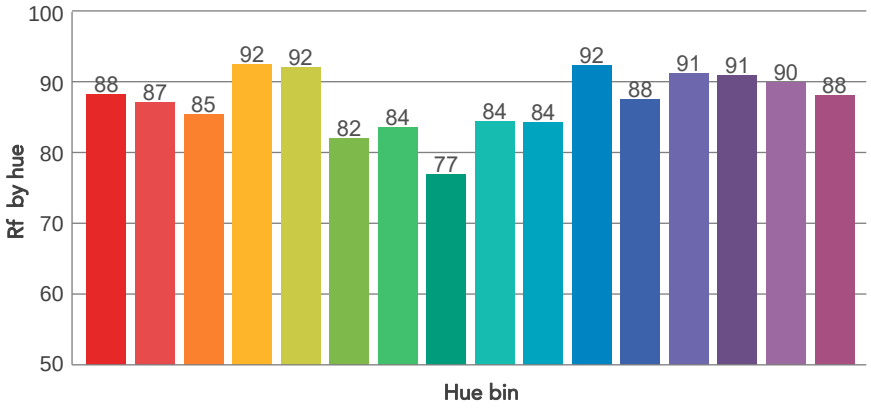
Fidelity index Rf

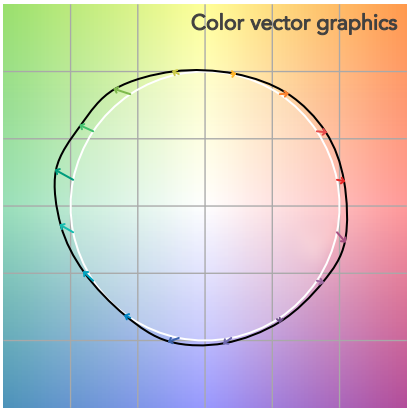
Rg 110,1

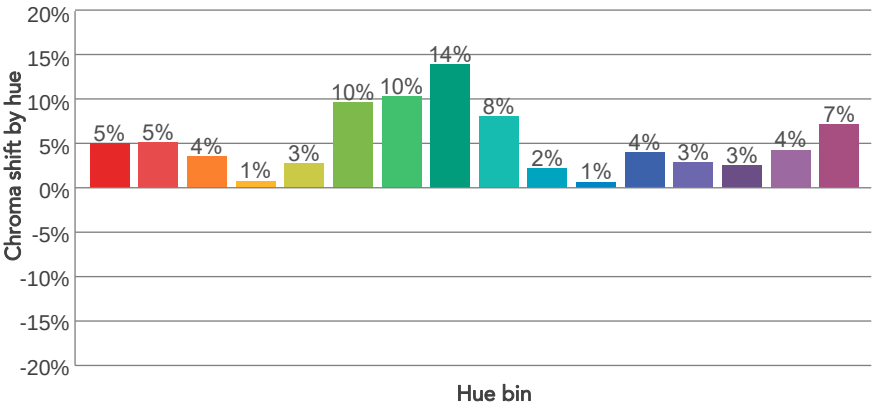
Gammut index

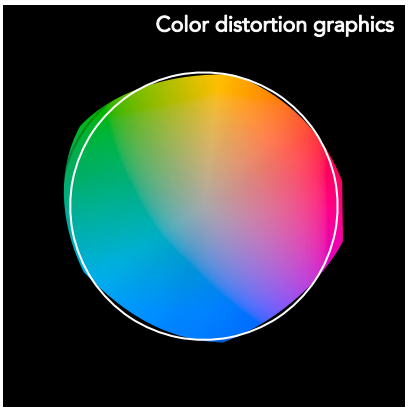
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	88	5%	-2%
2	87	5%	-4%
3	85	4%	-5%
4	92	1%	-3%
5	92	3%	4%
6	82	10%	8%
7	84	10%	2%
8	77	14%	-4%
9	84	8%	-7%
10	84	2%	-9%
11	92	1%	-4%
12	88	4%	-6%
13	91	3%	-6%
14	91	3%	-2%
15	90	4%	1%
16	88	7%	-6%

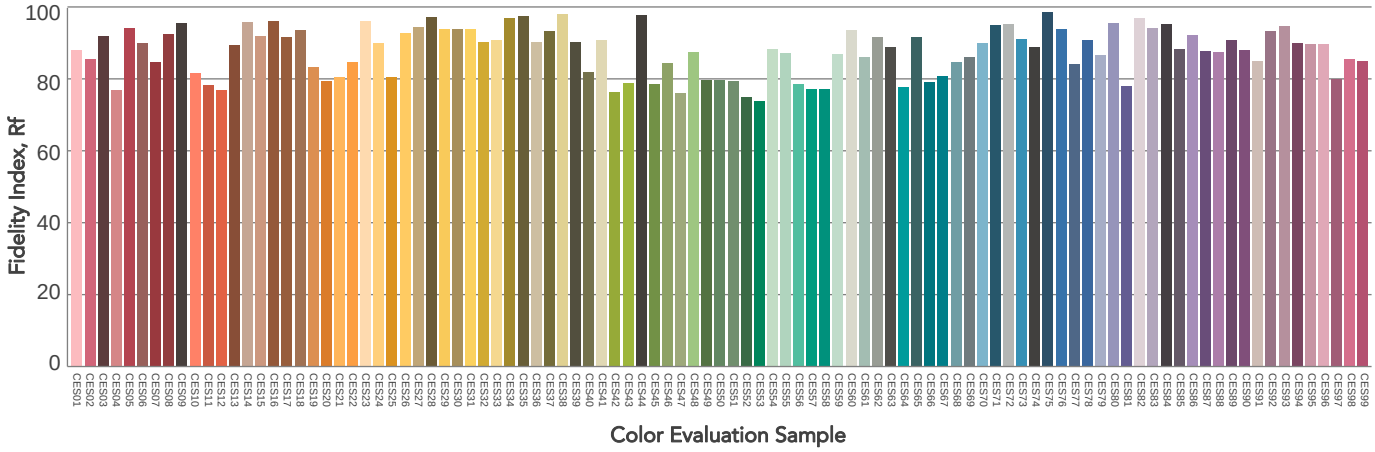












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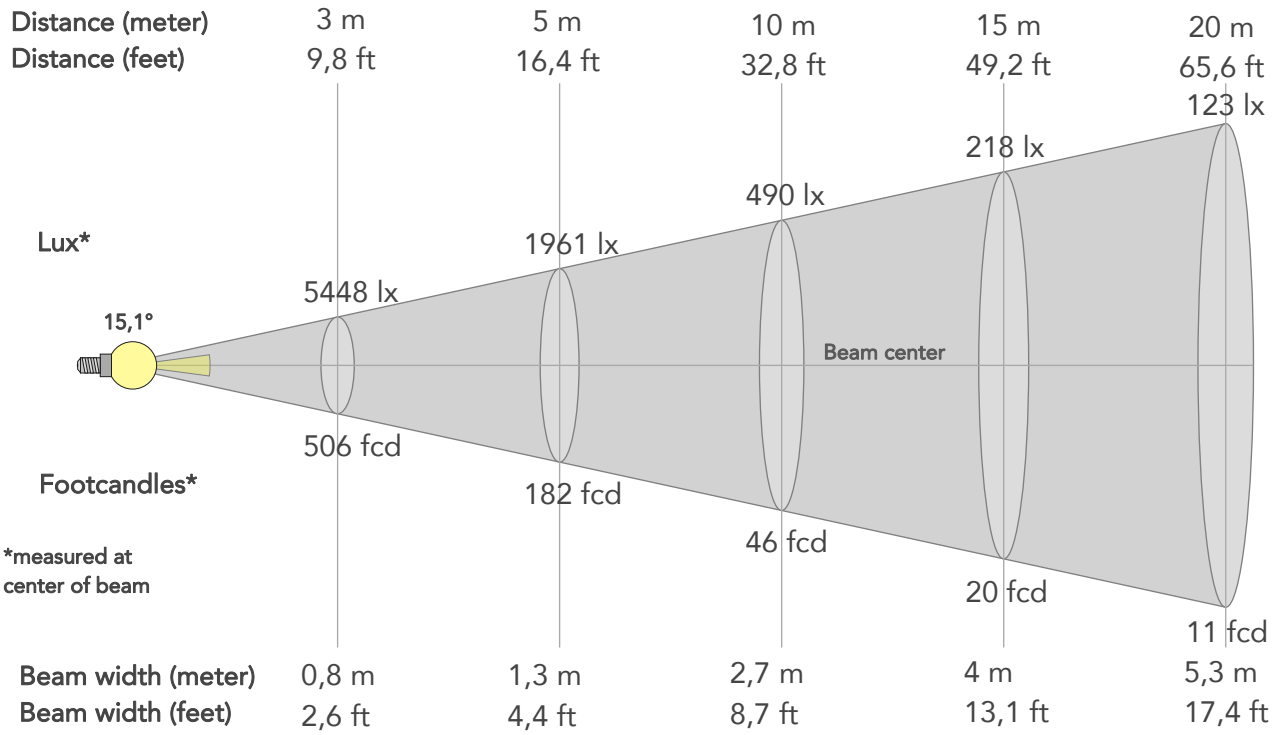
BEAM DETAILS

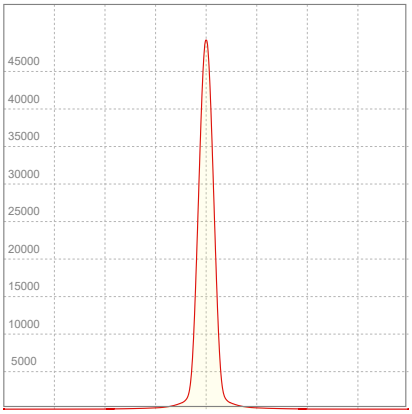
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	36,3°	95,4%	91,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	49028lx	12257lx	5448lx	3064lx	1961lx	872lx	490lx	218lx	123lx	78lx	54lx	31lx	20lx
Footcand.	4555fcd	1139fcd	506fcd	285fcd	182fcd	81fcd	46fcd	20fcd	11fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,8ft	43,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,361A	74,5W	0,92	62lm/W

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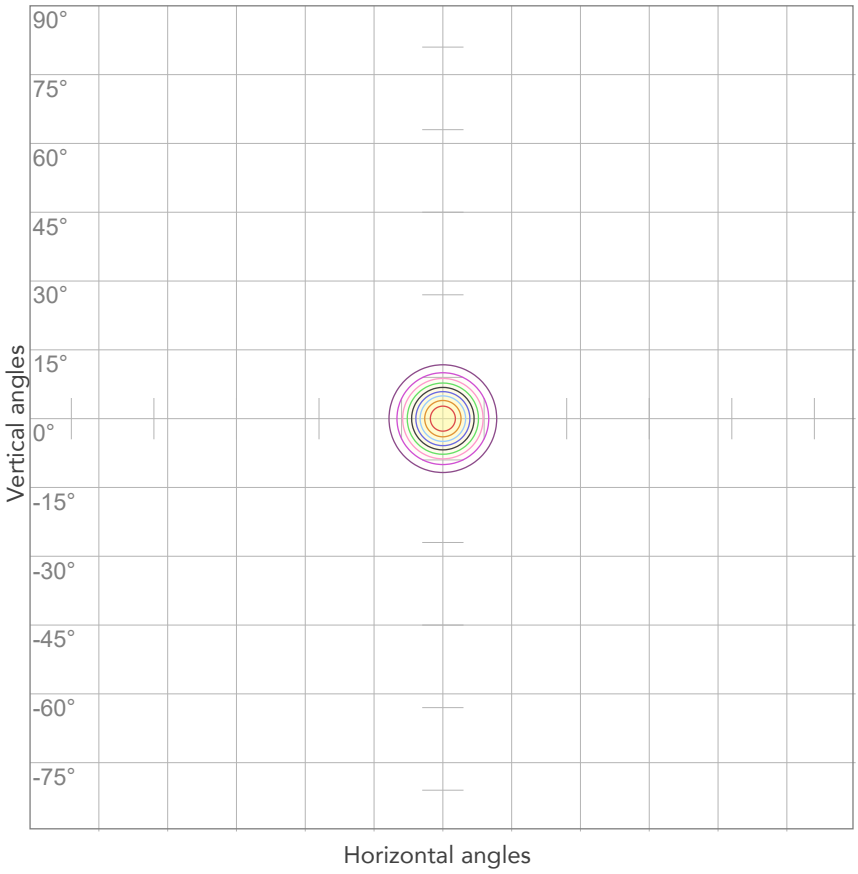
ISO DIAGRAMS

ISO CANDELA DIAGRAM



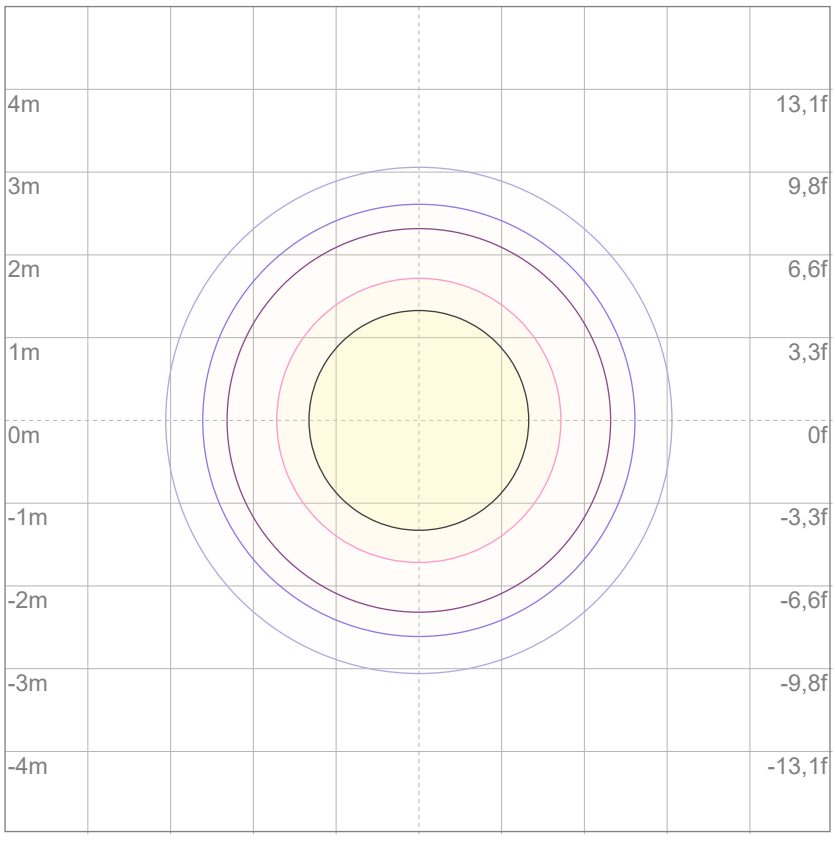
10%	4903 cd
20%	9806 cd
30%	14708 cd
40%	19611 cd
50%	24514 cd
60%	29417 cd
70%	34320 cd
80%	39222 cd

Conditions:

Number of c-planes: 2

Candela at center: 49028 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	14,7 lx
5%	24,5 lx
10%	49,0 lx
30%	147 lx
50%	245 lx

Conditions:

Number of c-planes: 2

Lux at center: 490 lx

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

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Total lumen output:

4820 lm

Peak candela output:

51325 cd

Light quality:

CRI: 84,3

Color temperature:

4059 K

PRODUCT NAME:

ARCSPOTMFC

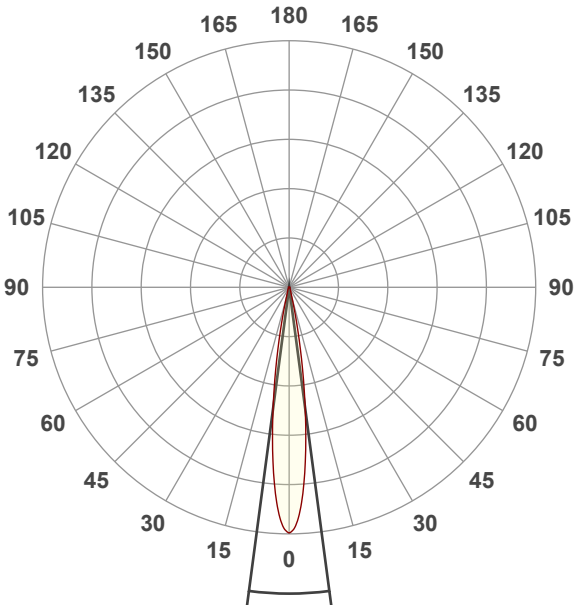
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
4000K

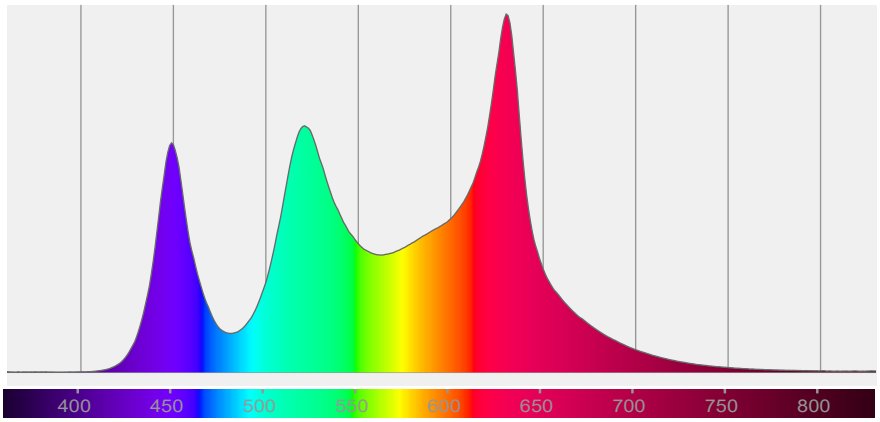
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:21:47



Beam angle 50%: 15,1°
Field angle 10%: 26,1°
Cut off angle 2.5%: 36,1°

Spectra



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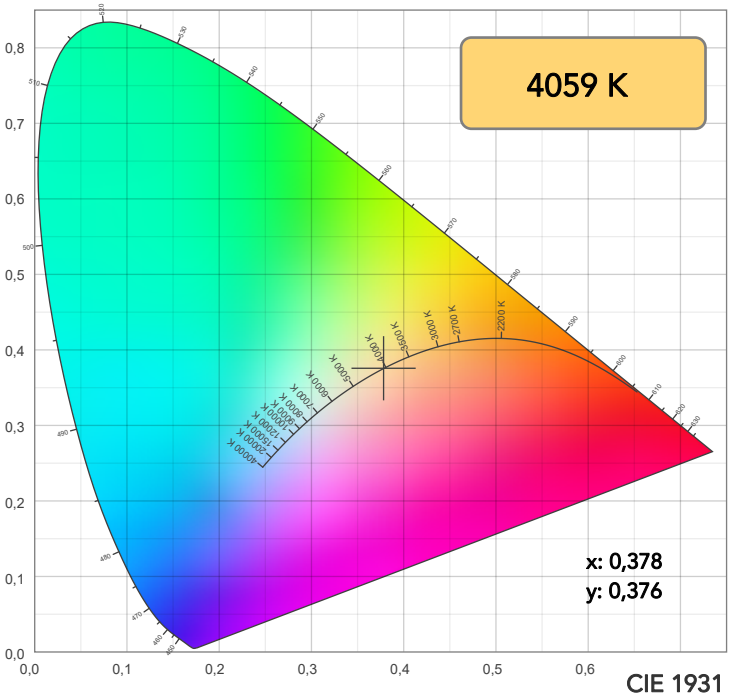
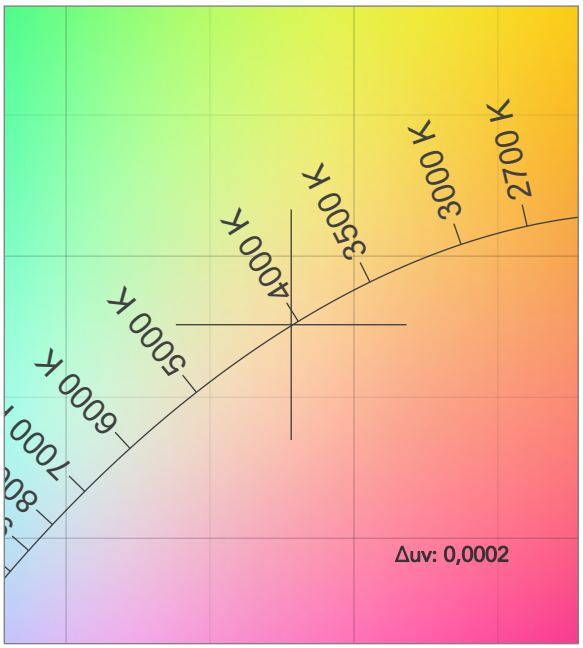
COLOR DETAILS

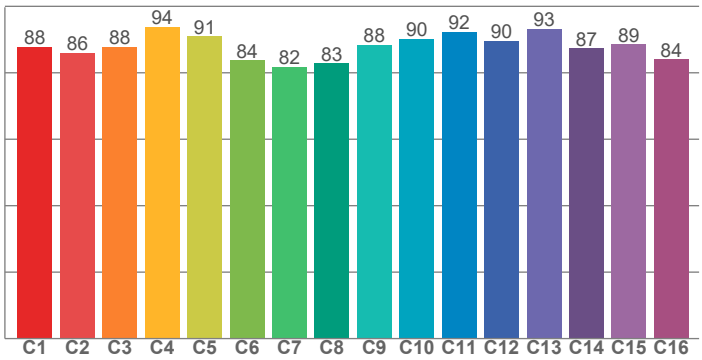


CIE 1931

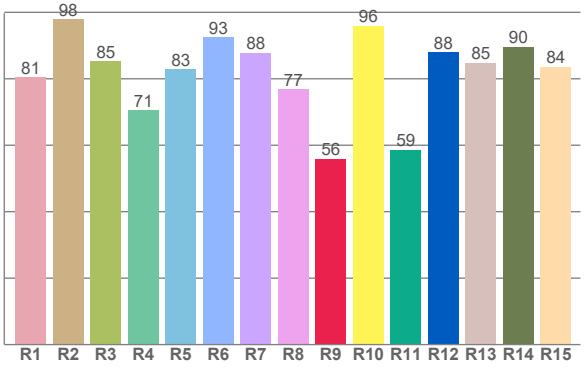


CIE 1931 ZOOM

TM30: 88,5



CRI: 84,3 (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
80,5	97,9	85,3	70,5	83,0	92,5	87,8	76,9	56,0	95,9	58,6	88,1	84,8	89,7	83,6

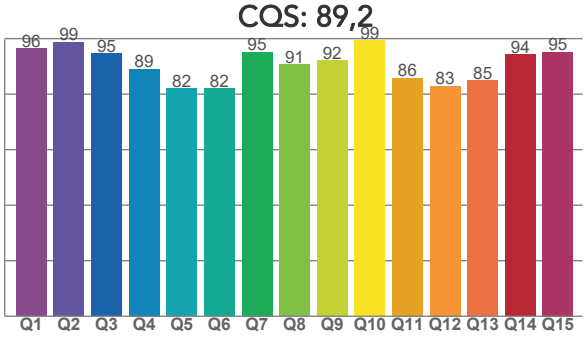
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,8	86,0	87,7	93,8	90,9	83,7	81,7	82,8	88,4	90,2	92,4	89,6	93,2	87,4	88,6	84,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	98,7	94,6	89,1	82,1	82,0	95,2	90,7	92,2	99,3	85,9	83,0	84,8	94,3	95,1

CQS: 89,2



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
4059 K	84,3	56,0	88,5	110,2	89,2	69	0,378	0,376	0,0002

TM30 DETAILS

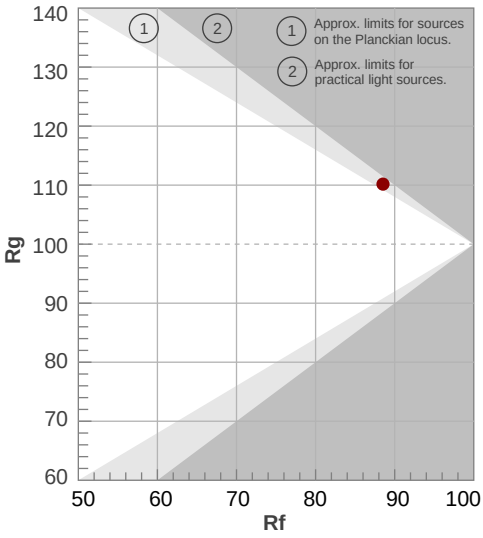
Rf 88,5

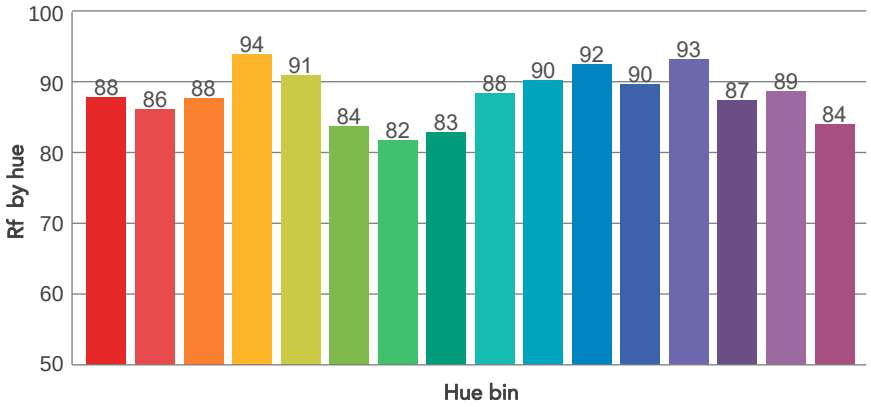
Fidelity index Rf

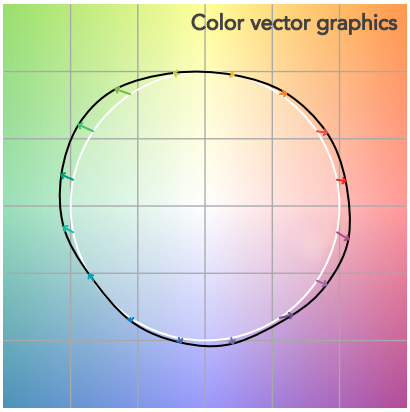
Rg 110,2

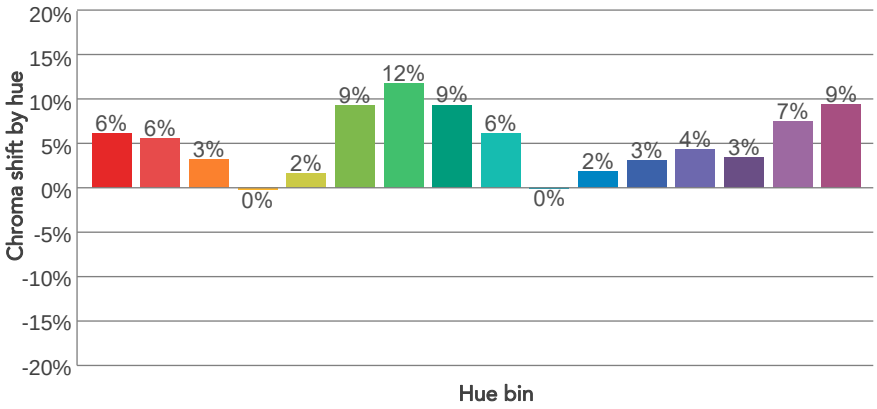
Gammut index

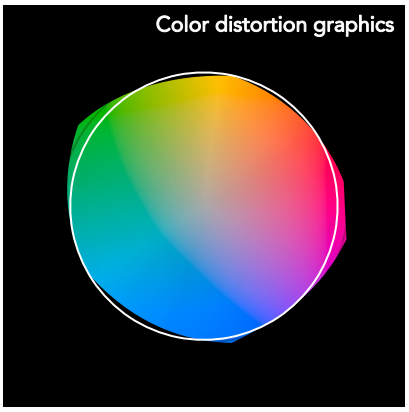
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	88	6%	-2%
2	86	6%	-5%
3	88	3%	-4%
4	94	0%	-2%
5	91	2%	3%
6	84	9%	7%
7	82	12%	2%
8	83	9%	-2%
9	88	6%	-5%
10	90	0%	-5%
11	92	2%	2%
12	90	3%	2%
13	93	4%	0%
14	87	3%	9%
15	89	7%	2%
16	84	9%	-3%

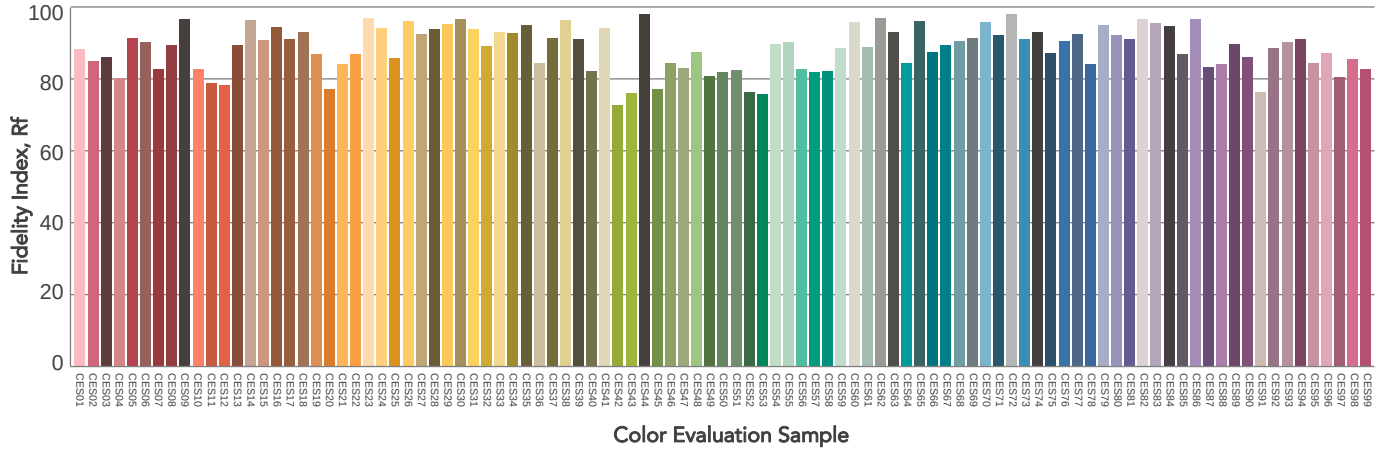












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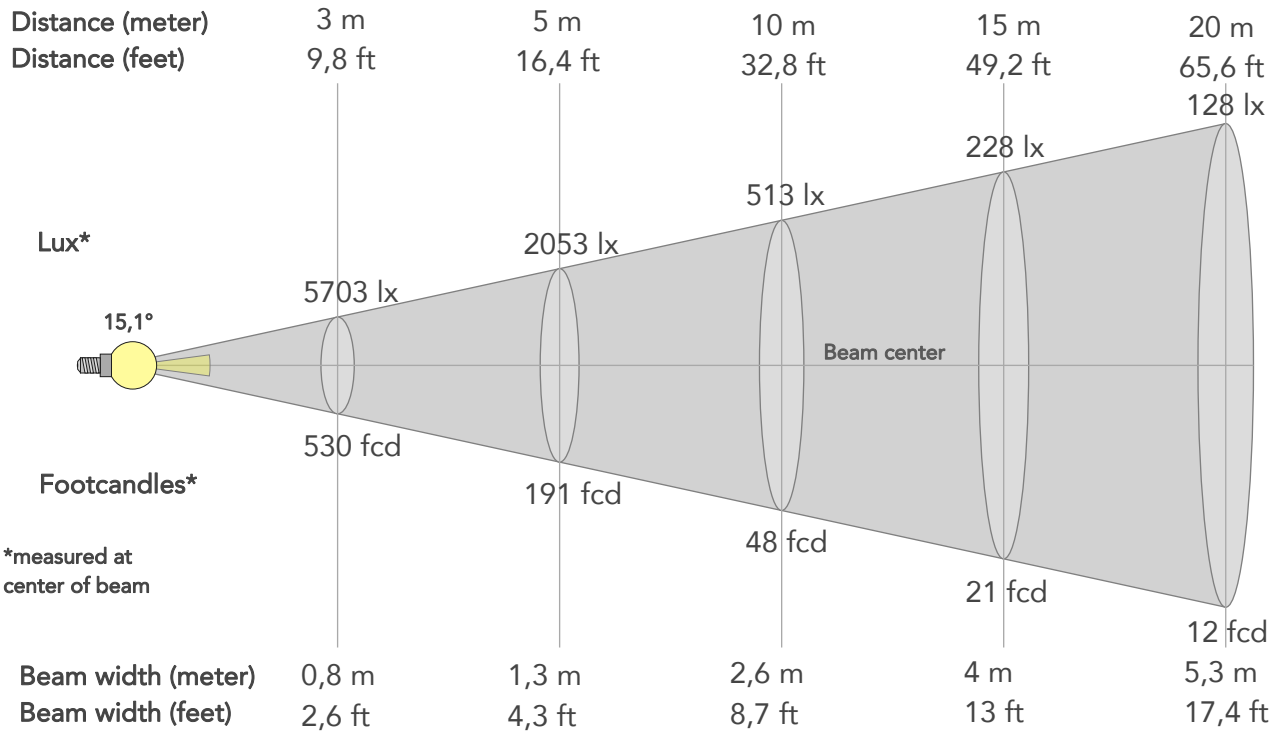
BEAM DETAILS

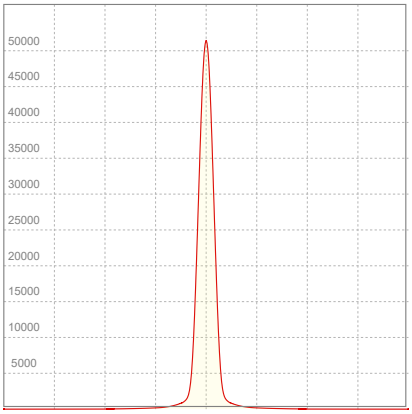
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26,1°	36,1°	95,5%	92,0%



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	51325lx	12831lx	5703lx	3208lx	2053lx	912lx	513lx	228lx	128lx	82lx	57lx	32lx	21lx
Footcand.	4768fcd	1192fcd	530fcd	298fcd	191fcd	85fcd	48fcd	21fcd	12fcd	8fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	4m	5,3m	6,6m	7,9m	10,6m	13,2m
Beam wid.	0,9ft	1,7ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26,1ft	34,7ft	43,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,382A	78,8W	0,92	61lm/W

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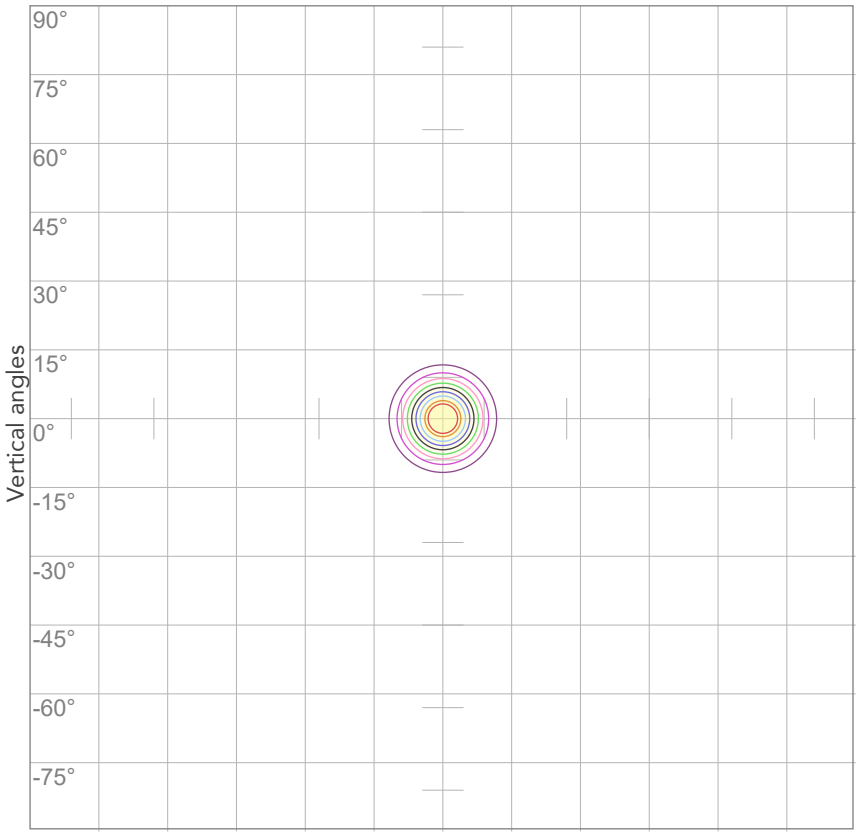
ISO DIAGRAMS

ISO CANDELA DIAGRAM



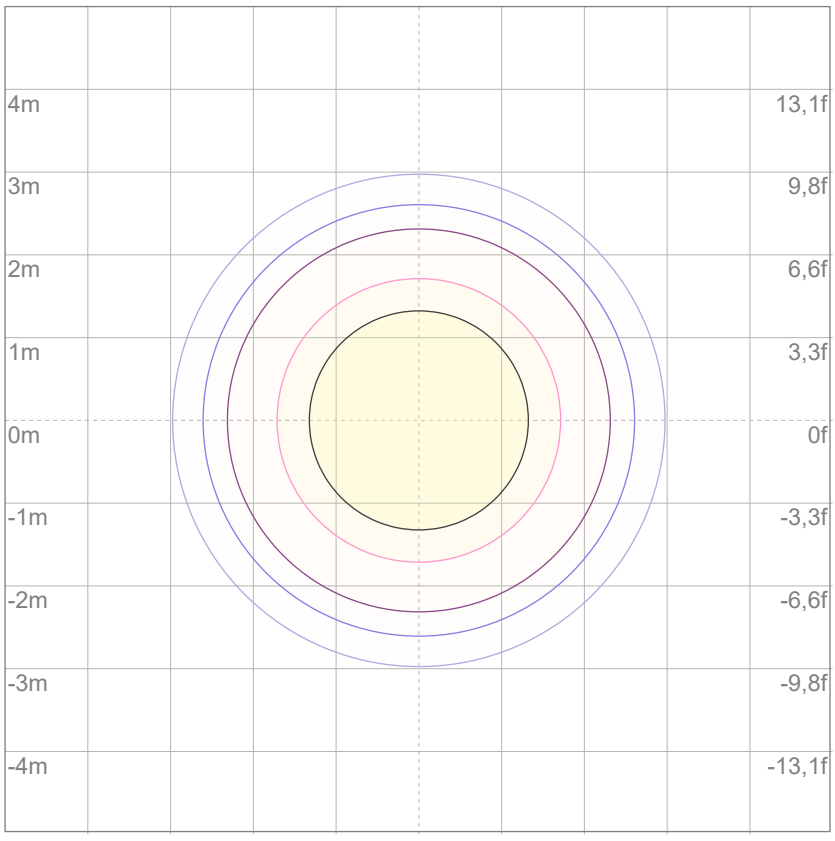
10%	5132 cd
20%	10265 cd
30%	15397 cd
40%	20530 cd
50%	25662 cd
60%	30795 cd
70%	35927 cd
80%	41060 cd

Conditions:

Number of c-planes: 2

Candela at center: 51325 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	15,4 lx
5%	25,7 lx
10%	51,3 lx
30%	154 lx
50%	257 lx

Conditions:

Number of c-planes: 2

Lux at center: 513 lx

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

Total lumen output:

4684 lm

Peak candela output:

50764 cd

Light quality:

CRI: 86,8

Color temperature:

5619 K

PRODUCT NAME:

ARCSPOTMFC

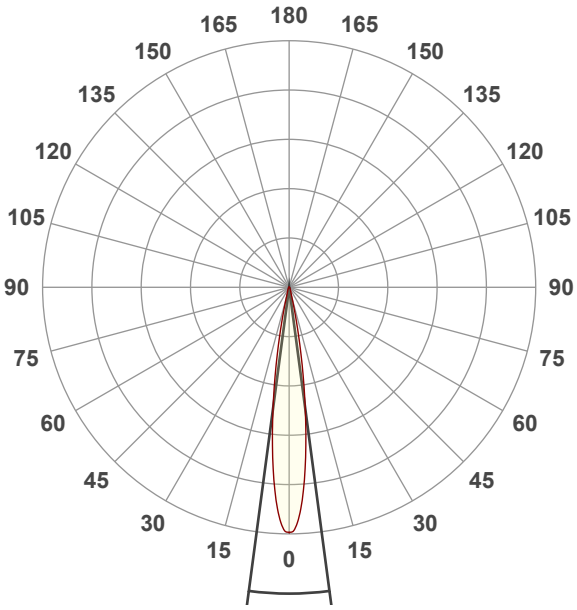
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
5600K

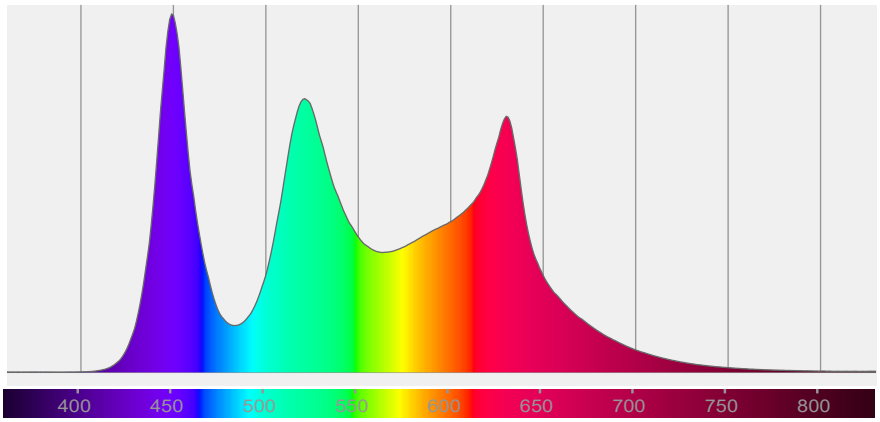
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:25:14



Beam angle 50%: 15,1°
Field angle 10%: 25,9°
Cut off angle 2.5%: 36°

Spectra



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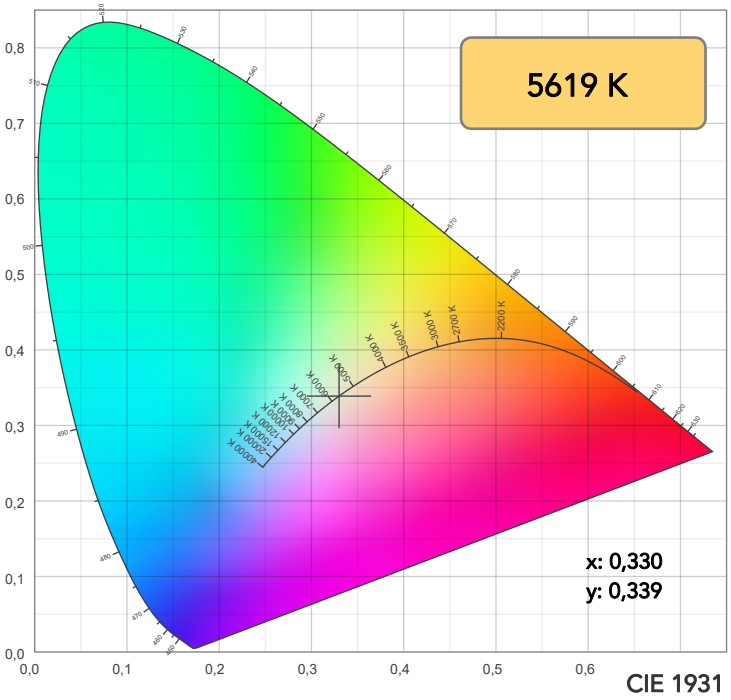
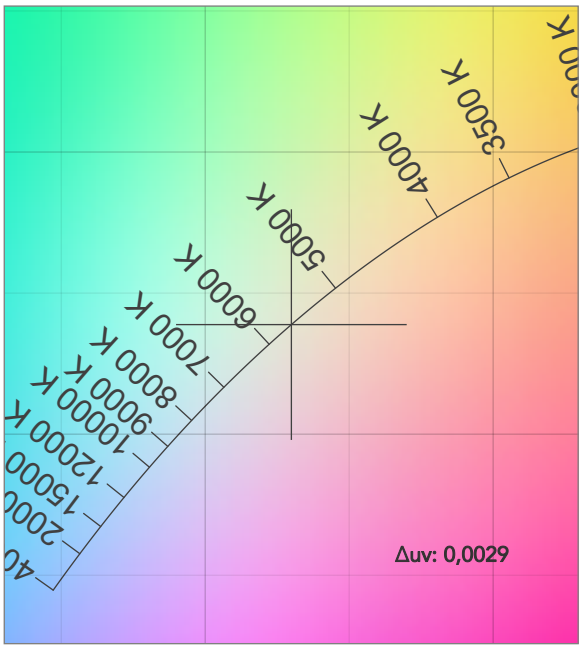
COLOR DETAILS

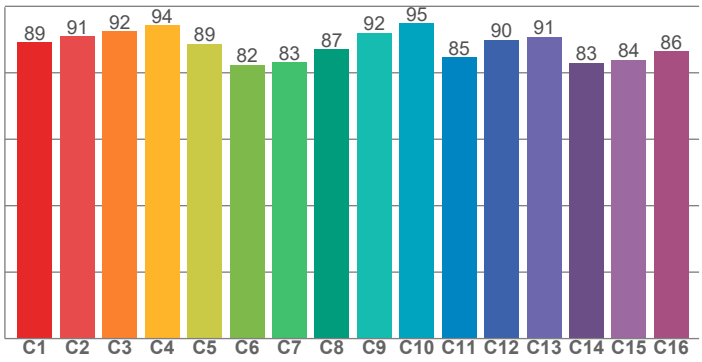


CIE 1931

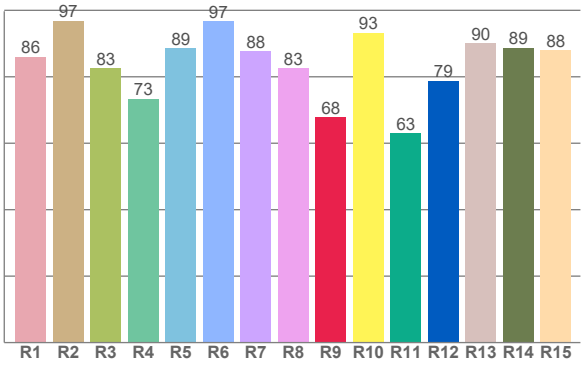


CIE 1931 ZOOM

TM30: 88,5



CRI: 86,8 (R1-R8)



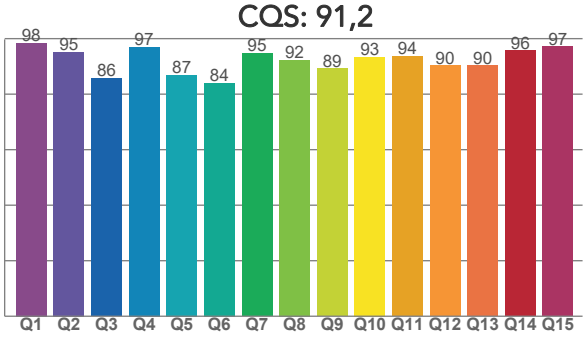
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
86,0	96,8	82,5	73,4	88,6	96,8	87,7	82,6	67,9	93,3	63,0	78,8	90,1	88,7	87,9

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
89,2	91,0	92,5	94,2	88,7	82,4	83,1	87,1	92,0	94,8	84,7	89,9	90,8	82,9	84,0	86,4

CQS: 91,2



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,5	95,2	85,7	97,0	87,0	84,1	94,7	92,2	89,2	93,5	93,6	90,3	90,3	95,7	97,1

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5619 K	86,8	67,9	88,5	110,3	91,2	79	0,330	0,339	0,0029

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TM30 DETAILS

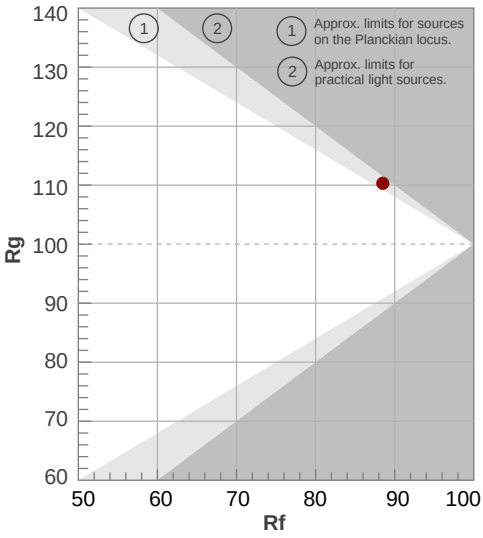
Rf 88,5

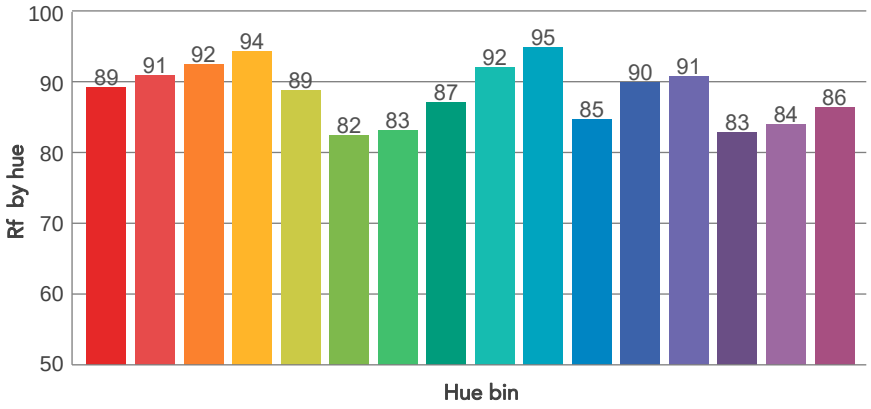
Fidelity index Rf

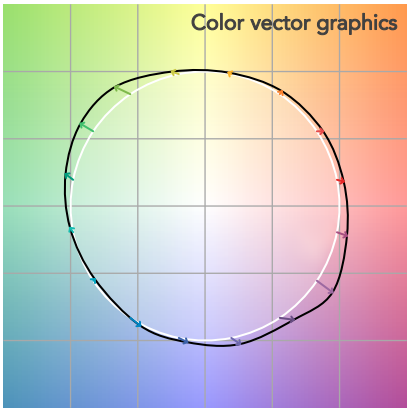
Rg 110,3

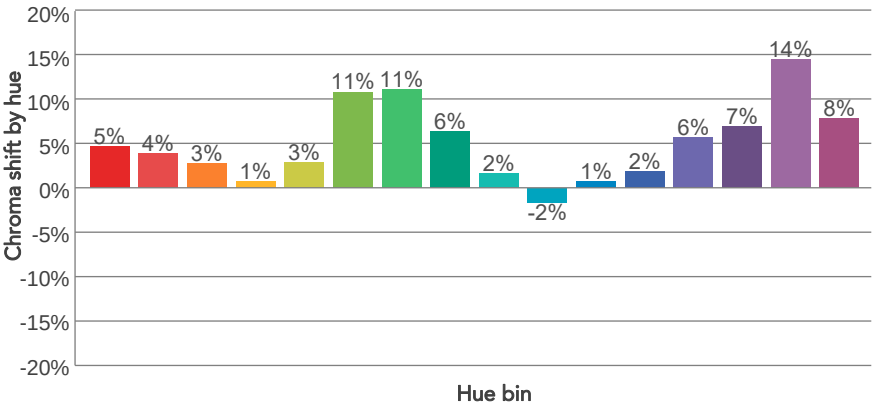
Gammut index

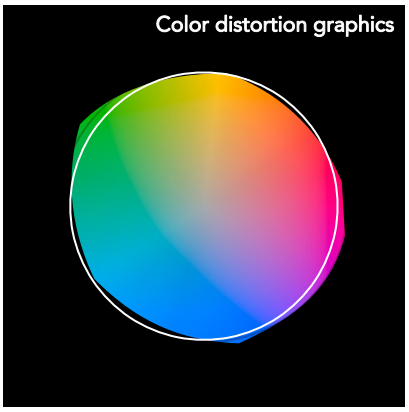
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	89	5%	-2%
2	91	4%	-3%
3	92	3%	0%
4	94	1%	2%
5	89	3%	5%
6	82	11%	6%
7	83	11%	1%
8	87	6%	-3%
9	92	2%	-4%
10	95	-2%	0%
11	85	1%	9%
12	90	2%	7%
13	91	6%	6%
14	83	7%	8%
15	84	14%	-1%
16	86	8%	-1%

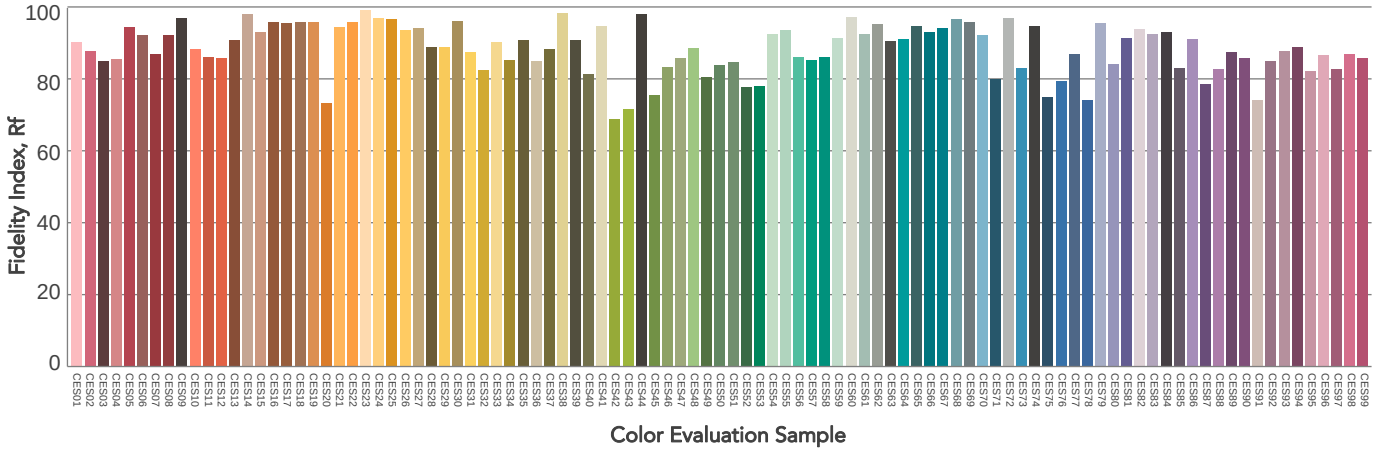












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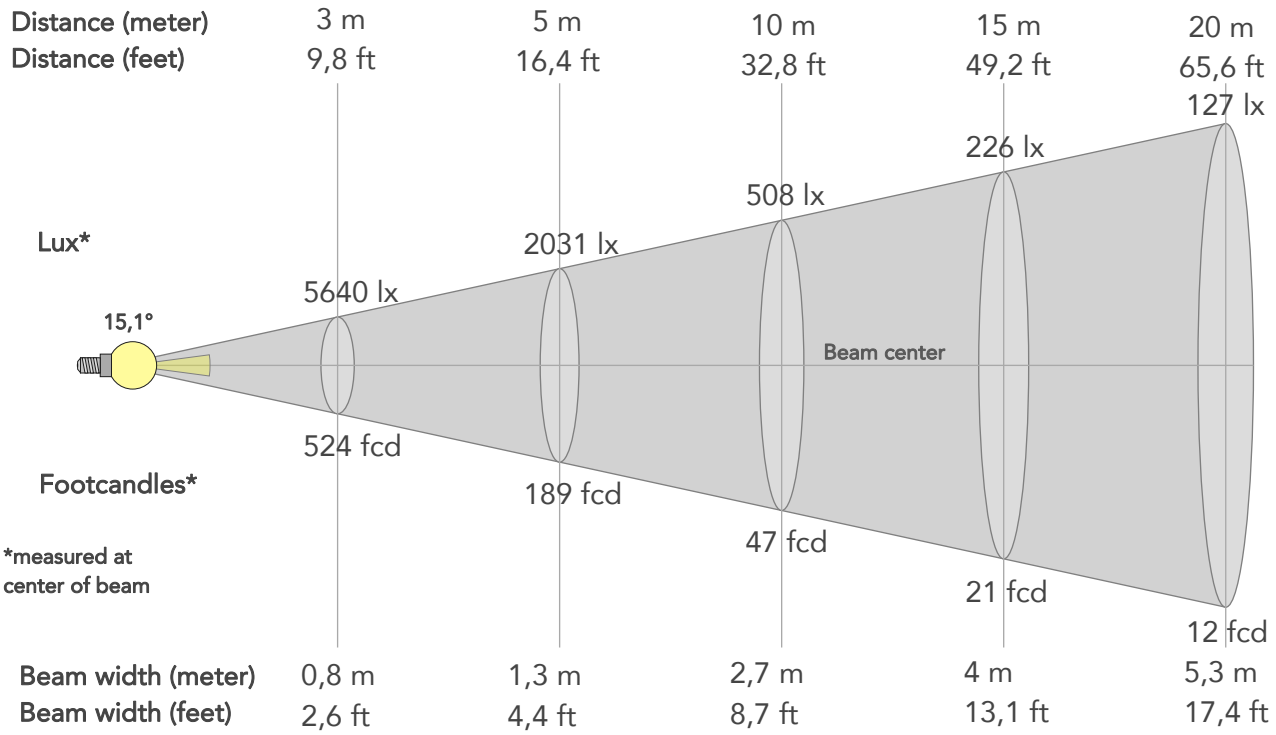
BEAM DETAILS

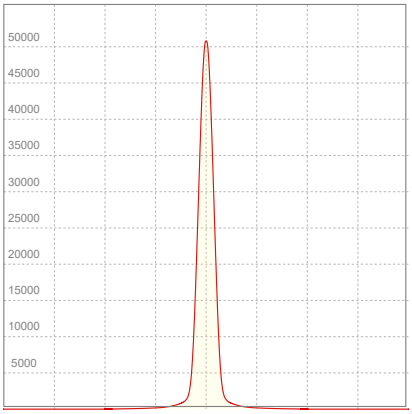
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	25,9°	36°	97,0%	93,7%



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	50764lx	12691lx	5640lx	3173lx	2031lx	902lx	508lx	226lx	127lx	81lx	56lx	32lx	20lx
Footcand.	4716fcd	1179fcd	524fcd	295fcd	189fcd	84fcd	47fcd	21fcd	12fcd	8fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,7m	4m	5,3m	6,6m	8m	10,6m	13,3m
Beam wid.	0,9ft	1,8ft	2,6ft	3,5ft	4,4ft	6,5ft	8,7ft	13,1ft	17,4ft	21,8ft	26,1ft	34,8ft	43,5ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,381A	78,9W	0,92	59lm/W

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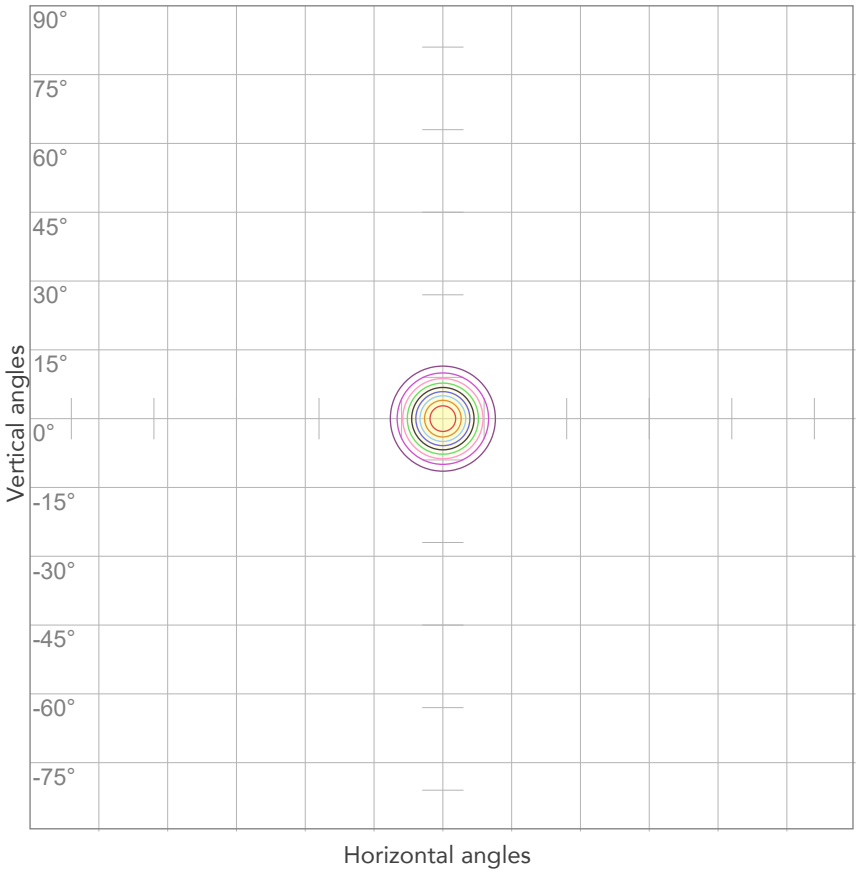
ISO DIAGRAMS

ISO CANDELA DIAGRAM



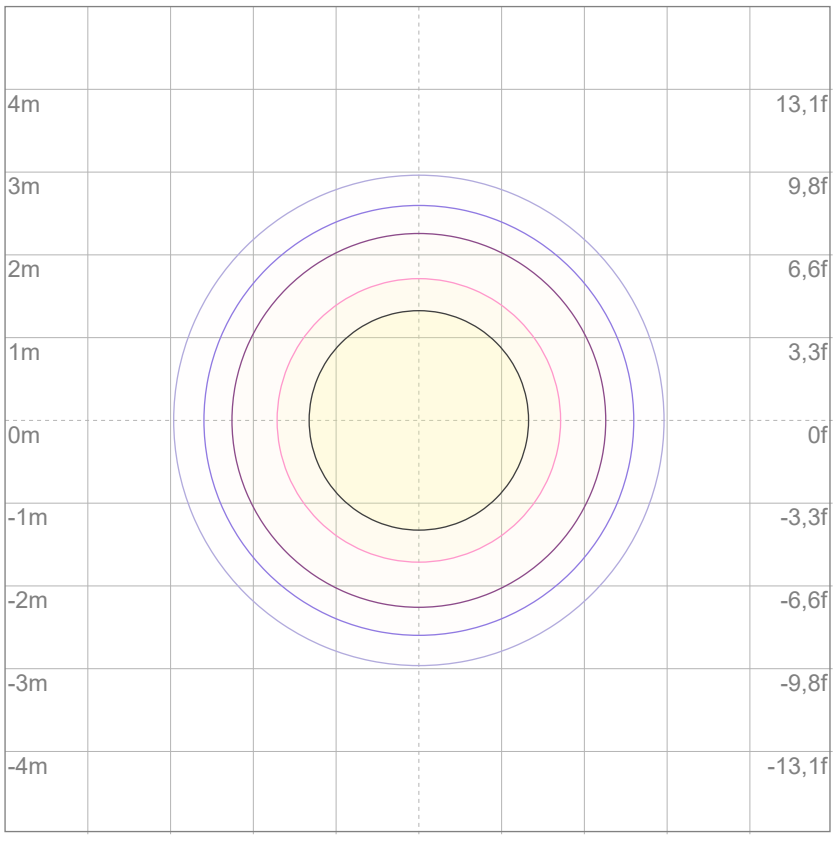
10%	5076 cd
20%	10153 cd
30%	15229 cd
40%	20306 cd
50%	25382 cd
60%	30459 cd
70%	35535 cd
80%	40611 cd

Conditions:

Number of c-planes: 2

Candela at center: 50764 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	15,2 lx
5%	25,4 lx
10%	50,8 lx
30%	152 lx
50%	254 lx

Conditions:

Number of c-planes: 2

Lux at center: 508 lx

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

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Total lumen output:

4633 lm

Peak candela output:

50069 cd

Light quality:

CRI: 87,4

Color temperature:

6511 K

PRODUCT NAME:

ARCSPOTMFC

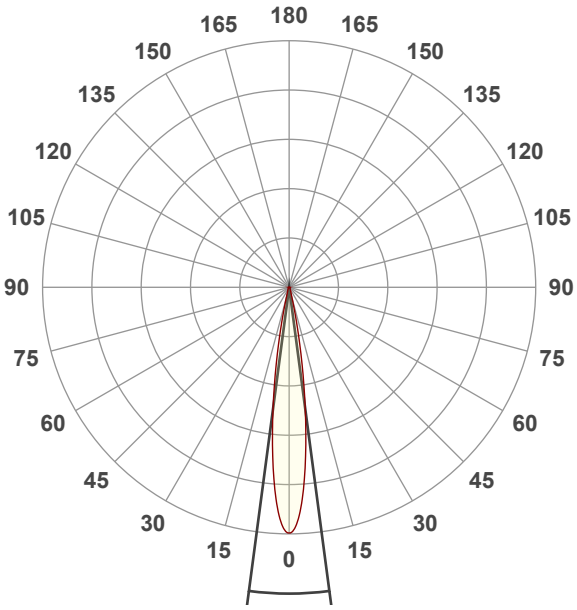
MEASURAMENT CONDITIONS:

Beam angle:
15°

Target:
6500K

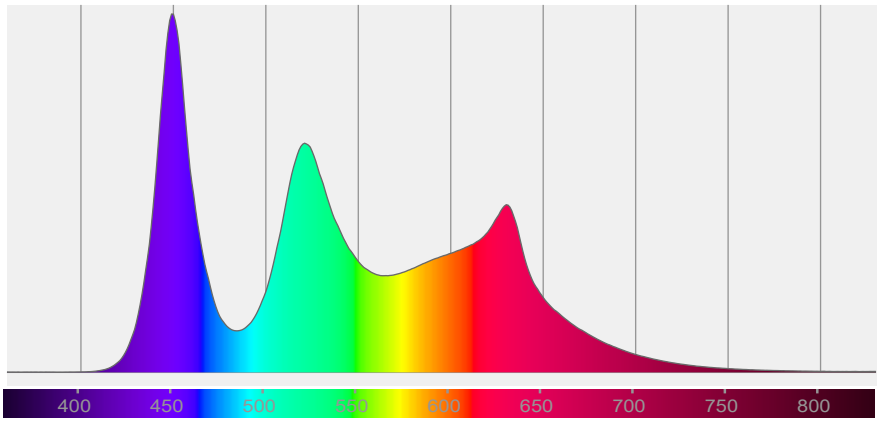
Operator:
Salvatore Giglio

Date and time:
29/02/2024 16:28:53

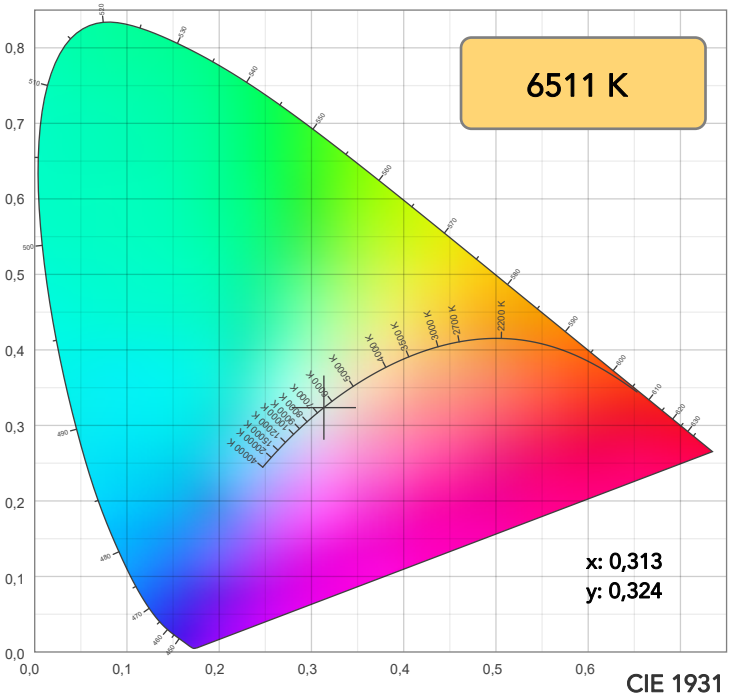


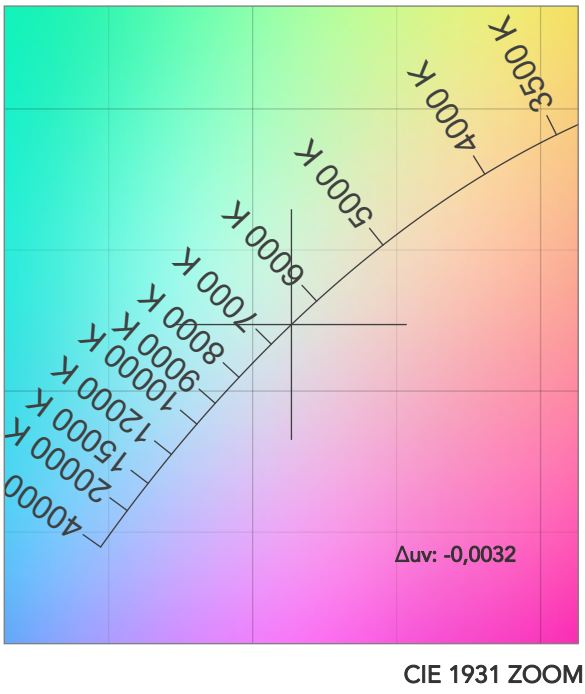
Beam angle 50%: 15,1°
Field angle 10%: 26°
Cut off angle 2.5%: 36°

Spectra

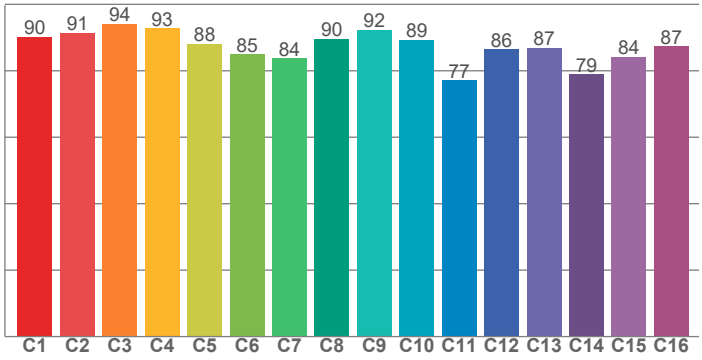


COLOR DETAILS

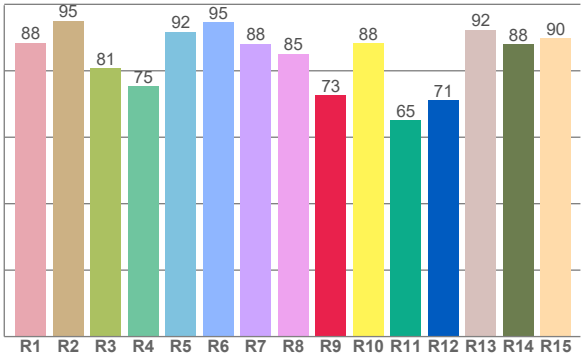




TM30: 88,0



CRI: 87,4 (R1-R8)



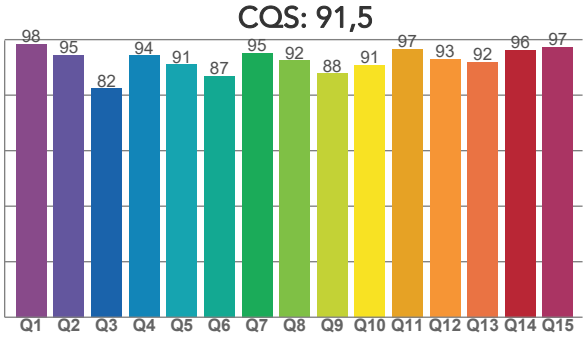
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
88,4	95,0	80,7	75,4	91,8	94,5	88,1	85,1	72,7	88,2	65,1	71,2	92,3	88,0	89,7

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,2	91,5	94,2	92,8	88,2	84,9	83,7	89,6	92,4	89,3	77,2	86,5	86,8	78,9	84,1	87,3

CQS: 91,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	94,5	82,3	94,3	91,0	86,9	95,2	92,5	87,7	90,9	96,6	92,9	91,9	96,2	97,4

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6511 K	87,4	72,7	88,0	109,5	91,5	82	0,313	0,324	-0,0032

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TM30 DETAILS

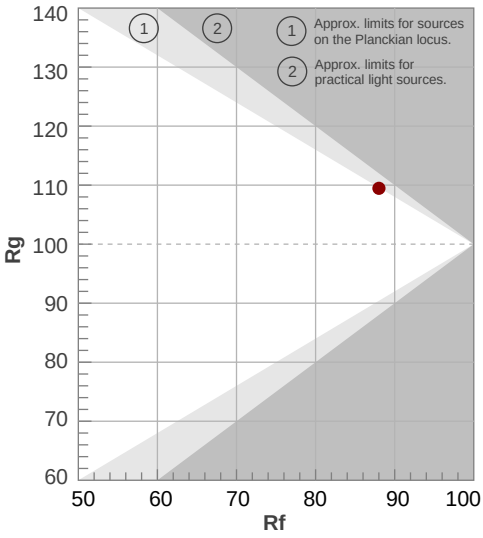
Rf 88,0

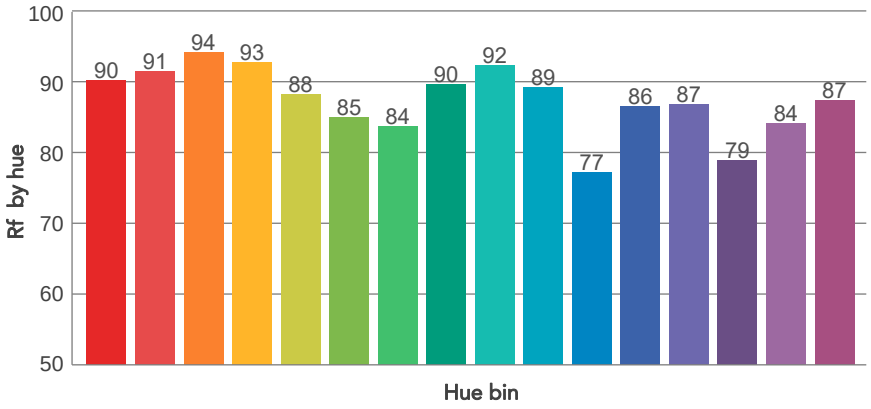
Fidelity index Rf

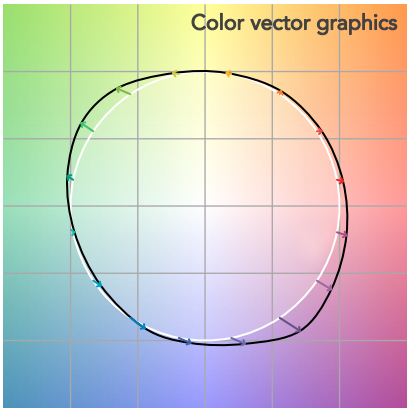
Rg 109,5

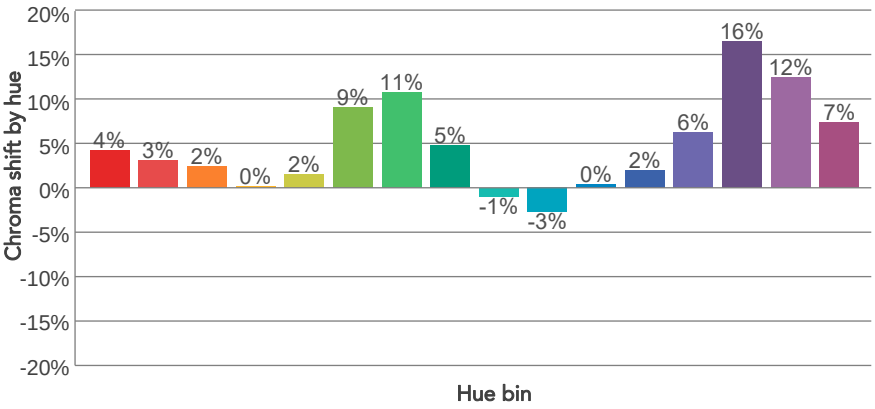
Gammut index

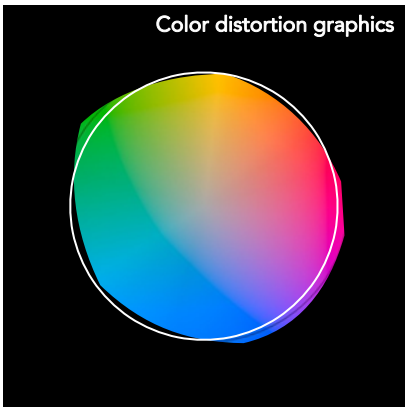
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	90	4%	-2%
2	91	3%	-2%
3	94	2%	0%
4	93	0%	4%
5	88	2%	4%
6	85	9%	6%
7	84	11%	0%
8	90	5%	-2%
9	92	-1%	0%
10	89	-3%	6%
11	77	0%	13%
12	86	2%	9%
13	87	6%	9%
14	79	16%	7%
15	84	12%	1%
16	87	7%	-1%

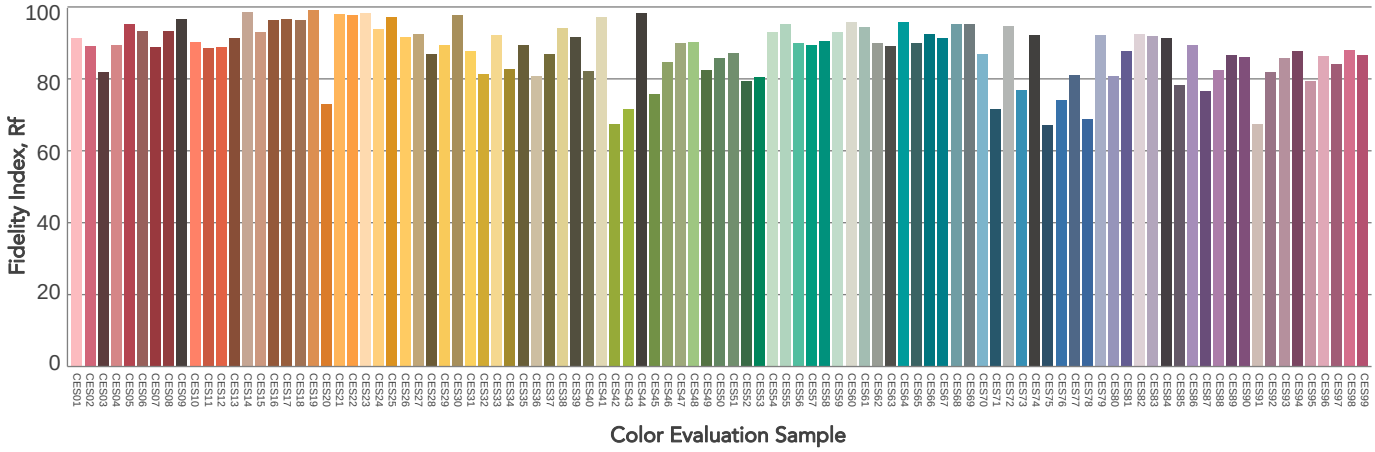












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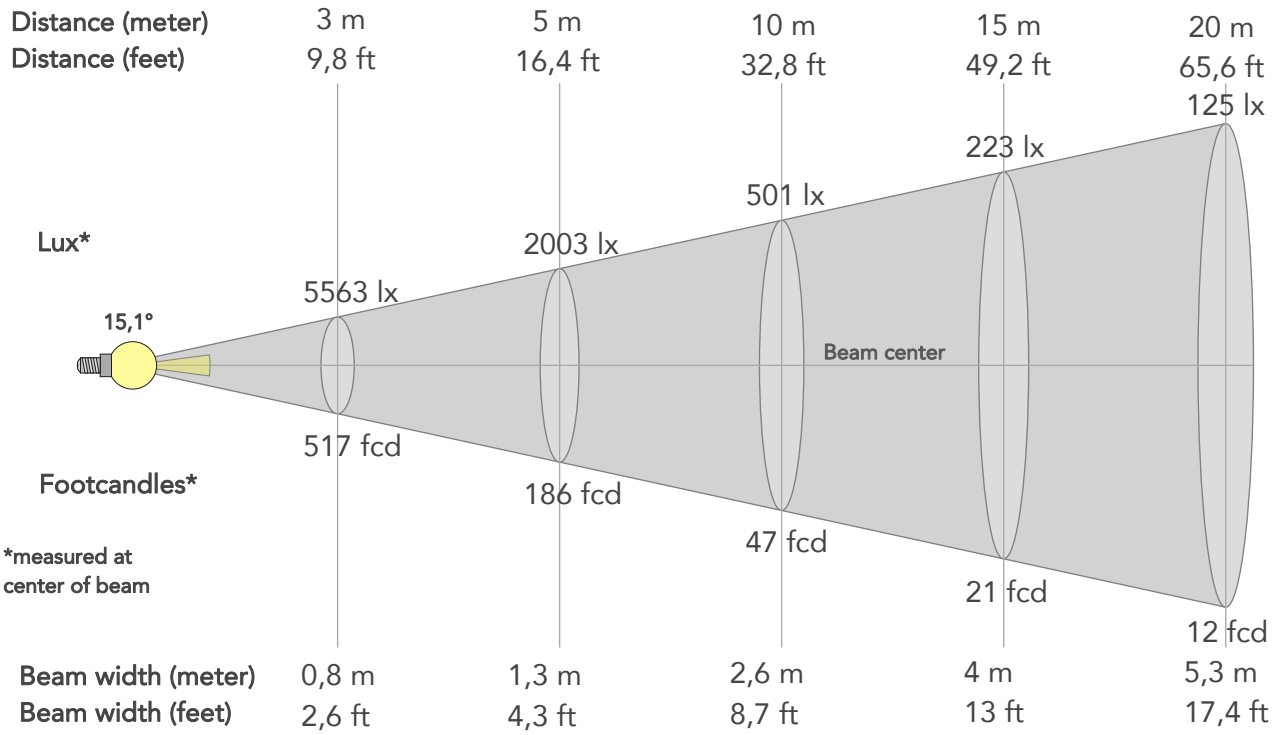
BEAM DETAILS

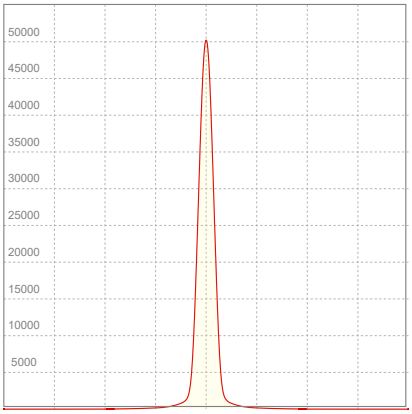
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,1°	26°	36°	96,4%	93,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	50069lx	12517lx	5563lx	3129lx	2003lx	890lx	501lx	223lx	125lx	80lx	56lx	31lx	20lx
Footcand.	4652fcd	1163fcd	517fcd	291fcd	186fcd	83fcd	47fcd	21fcd	12fcd	7fcd	5fcd	3fcd	2fcd
Beam wid.	0,3m	0,5m	0,8m	1,1m	1,3m	2m	2,6m	4m	5,3m	6,6m	7,9m	10,6m	13,2m
Beam wid.	0,9ft	1,7ft	2,6ft	3,5ft	4,3ft	6,5ft	8,7ft	13ft	17,4ft	21,7ft	26,1ft	34,8ft	43,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	0,381A	78,8W	0,92	59lm/W

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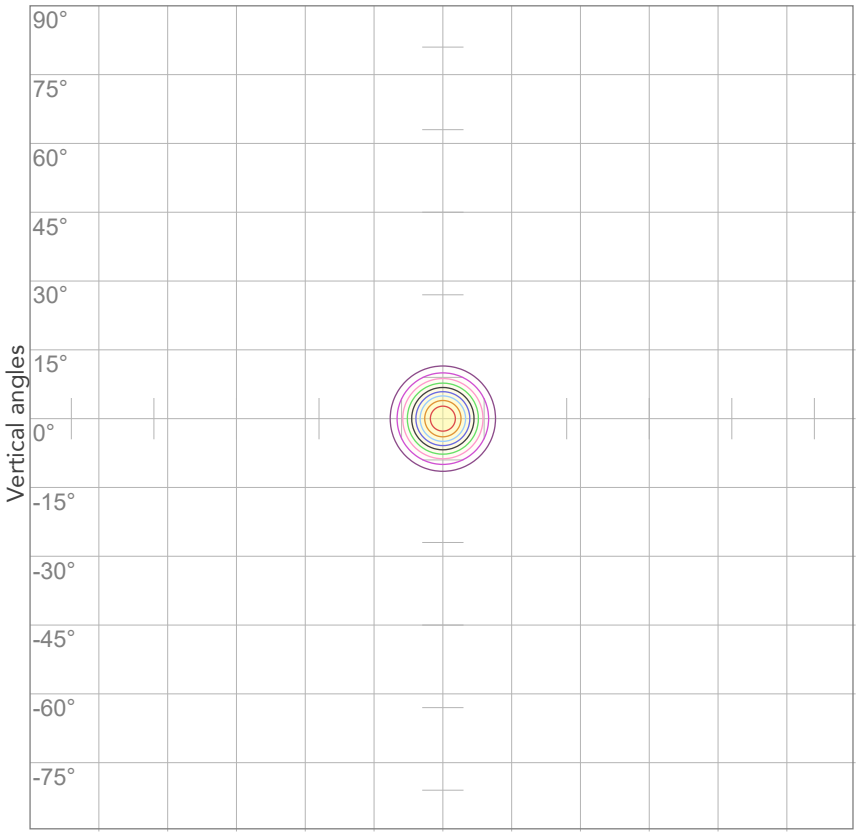
ISO DIAGRAMS

ISO CANDELA DIAGRAM



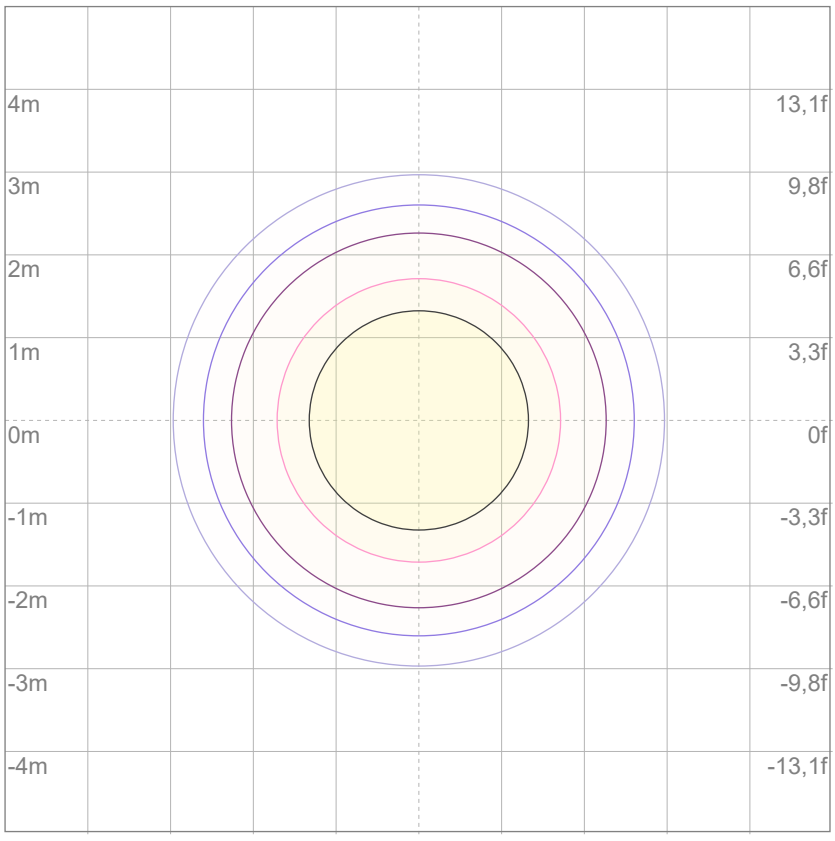
10%	5007 cd
20%	10014 cd
30%	15021 cd
40%	20027 cd
50%	25034 cd
60%	30041 cd
70%	35048 cd
80%	40055 cd

Conditions:

Number of c-planes: 2

Candela at center: 50069 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	15,0 lx
5%	25,0 lx
10%	50,1 lx
30%	150 lx
50%	250 lx

Conditions:

Number of c-planes: 2

Lux at center: 501 lx

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

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