

Photometric Test Report



ArcSpot XLFC

IP66 Spot featuring 11'600 lumen
with 61 x 4W RGB + Warm White source,
25° Lens

CONTENTS

Table of contents	2
Testing process	3
Color preset Full on	4
Color preset Red	7
Color preset Green	10
Color preset Blue	13
Color preset White	16
Color preset 2800K	21
Color preset 3200K	26
Color preset 4000K	31
Color preset 5600K	36
Color preset 6500K	41

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:

10484 lm

Peak candela output:

64759 cd

PRODUCT NAME:

ARCSPOTXLFC

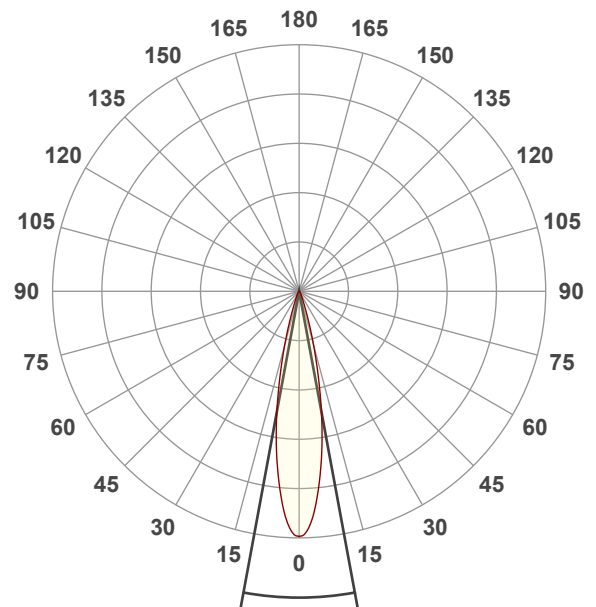
MEASUREMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
Full On

Operator:
Salvatore Giglio

Date and time:
08/11/2024 09:42:38

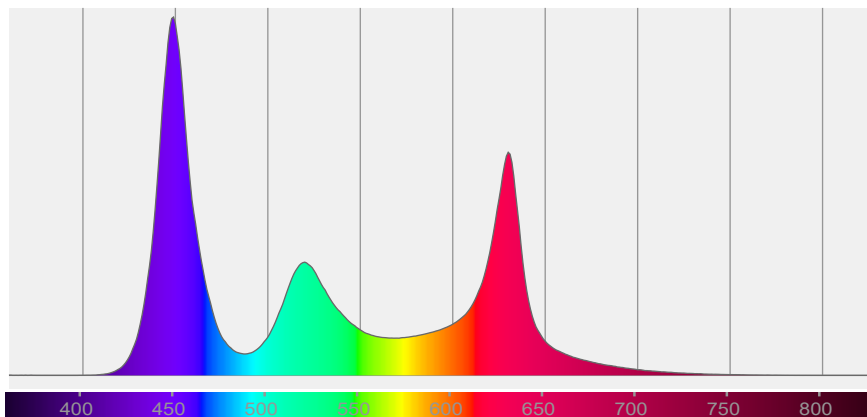


Beam angle 50%: 20,9°

Field angle 10%: 36,9°

Cut off angle 2.5%: 51,9°

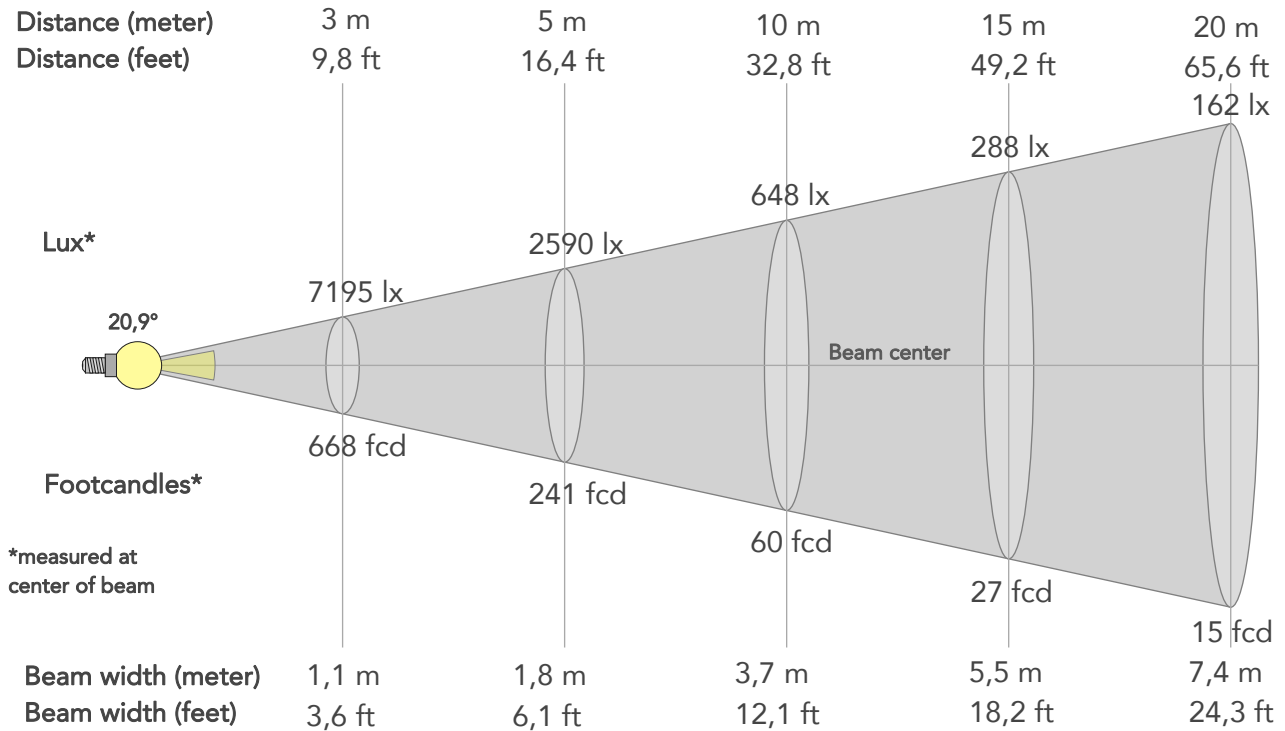
Spectra



BEAM DETAILS



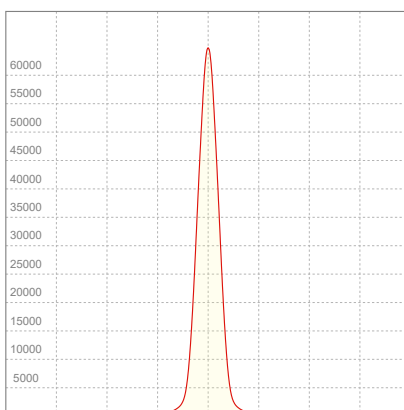
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,9°	51,9°	99,5%	97,3%



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	64759lx	16190lx	7195lx	4047lx	2590lx	1151lx	648lx	288lx	162lx	104lx	72lx	40lx	26lx
Footcand.	6016fcd	1504fcd	668fcd	376fcd	241fcd	107fcd	60fcd	27fcd	15fcd	10fcd	7fcd	4fcd	2fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,8m	18,5m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6,1ft	9,1ft	12,1ft	18,2ft	24,3ft	30,3ft	36,4ft	48,5ft	60,6ft

LINEAR DISTRIBUTION DIAGRAM

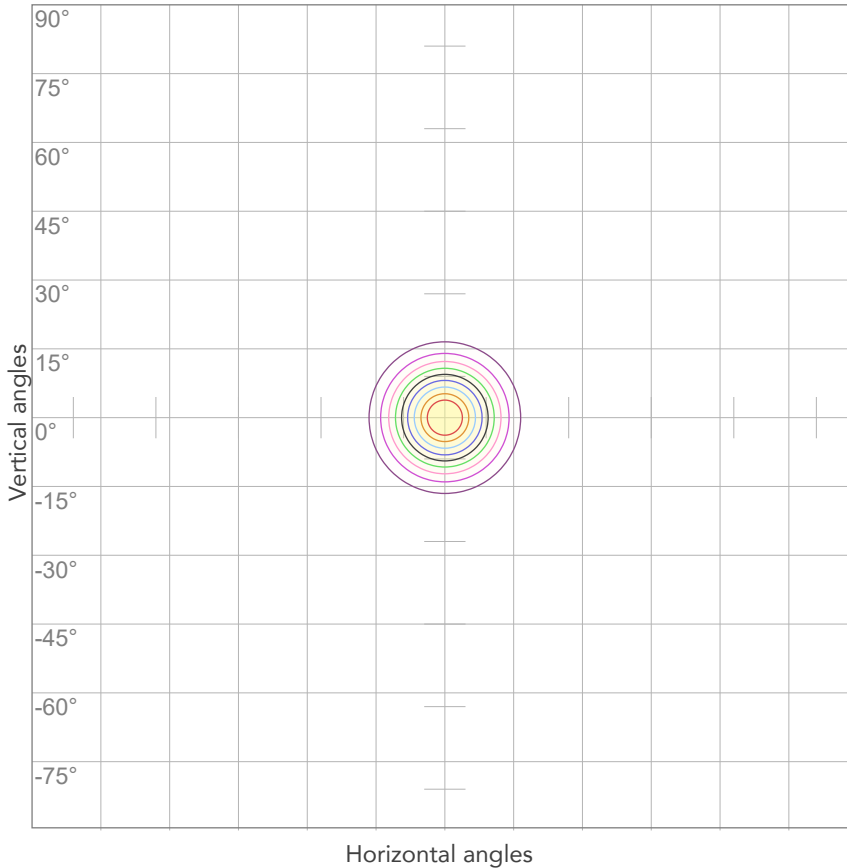


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
224V	1,03A	217,8W	0,94	48lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



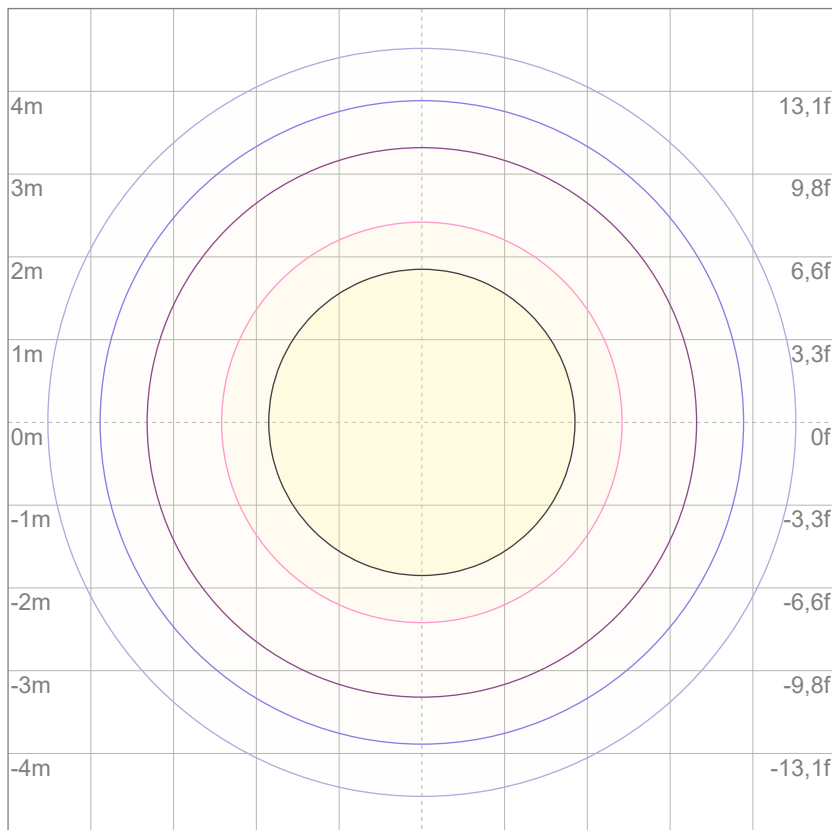
10%	6476 cd
20%	12952 cd
30%	19428 cd
40%	25904 cd
50%	32379 cd
60%	38855 cd
70%	45331 cd
80%	51807 cd

Conditions:

Number of c-planes: 2

Candela at center: 64759 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	19,4 lx
5%	32,4 lx
10%	64,8 lx
30%	194 lx
50%	324 lx

Conditions:

Number of c-planes: 2

Lux at center: 648 lx

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



Total lumen output:

3458 lm

Peak candela output:

21221 cd

PRODUCT NAME:

ARCSPOTXLFC

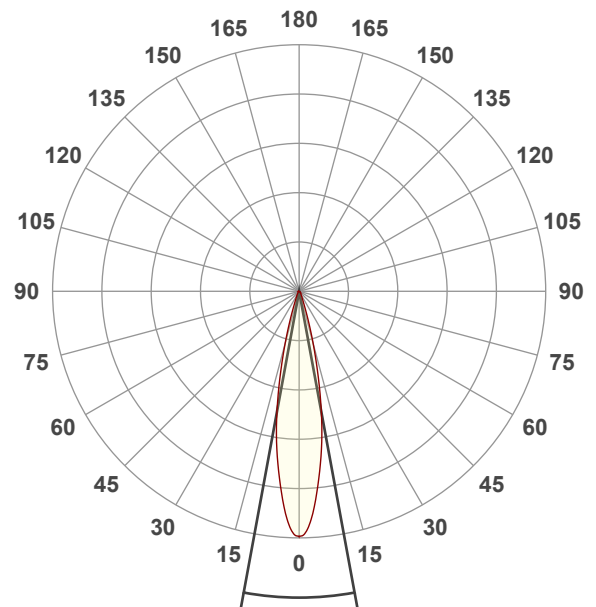
MEASUREMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
Red

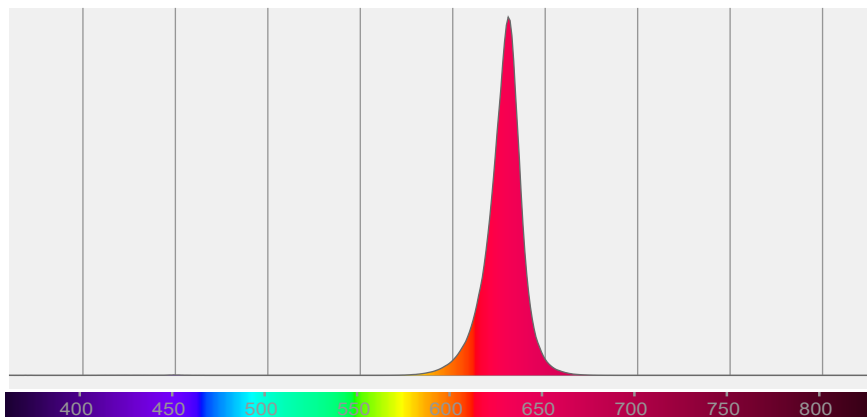
Operator:
Salvatore Giglio

Date and time:
08/11/2024 09:48:19



Beam angle 50%: 20,9°
Field angle 10%: 36,4°
Cut off angle 2.5%: 51,6°

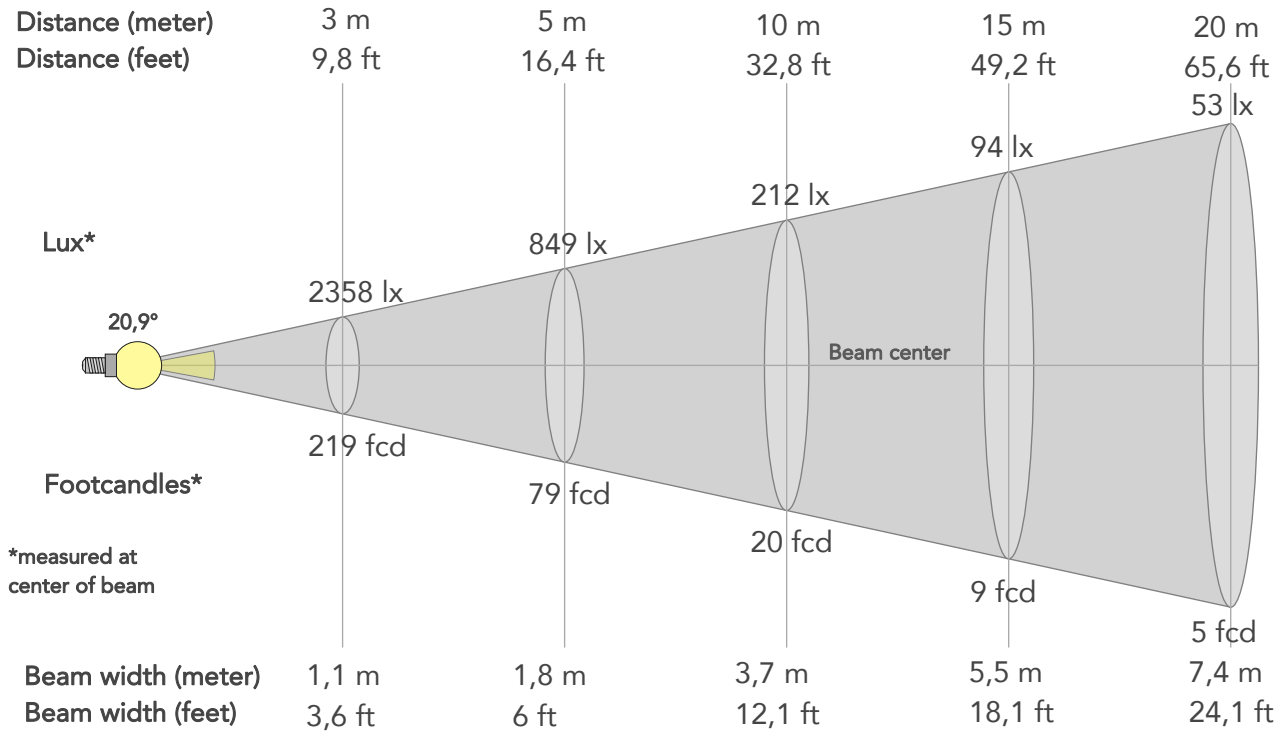
Spectra



BEAM DETAILS



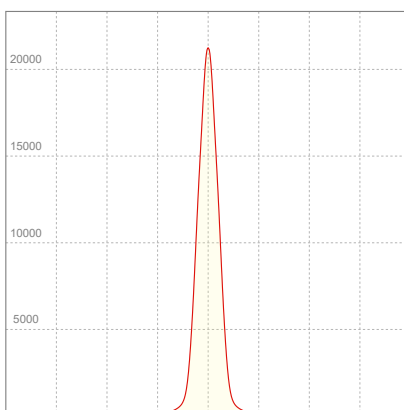
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,4°	51,6°	98,4%	95,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	21221lx	5305lx	2358lx	1326lx	849lx	377lx	212lx	94lx	53lx	34lx	24lx	13lx	8lx
Footcand.	1971fcd	493fcd	219fcd	123fcd	79fcd	35fcd	20fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,1ft	30,2ft	36,2ft	48,3ft	60,4ft

LINEAR DISTRIBUTION DIAGRAM

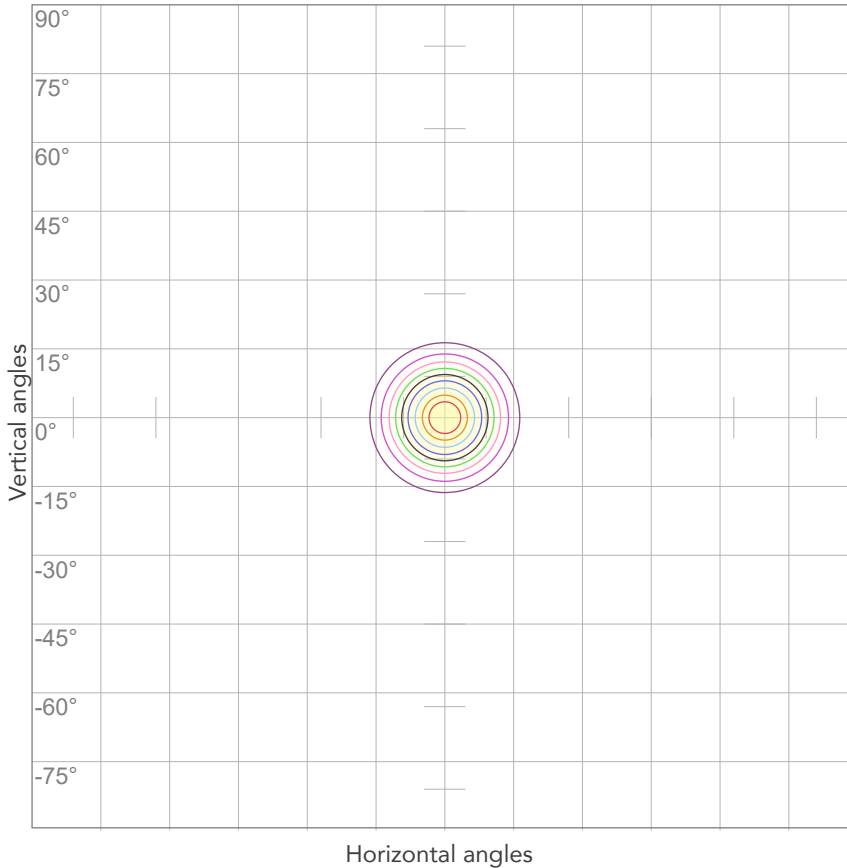


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,481A	81,8W	0,76	42lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



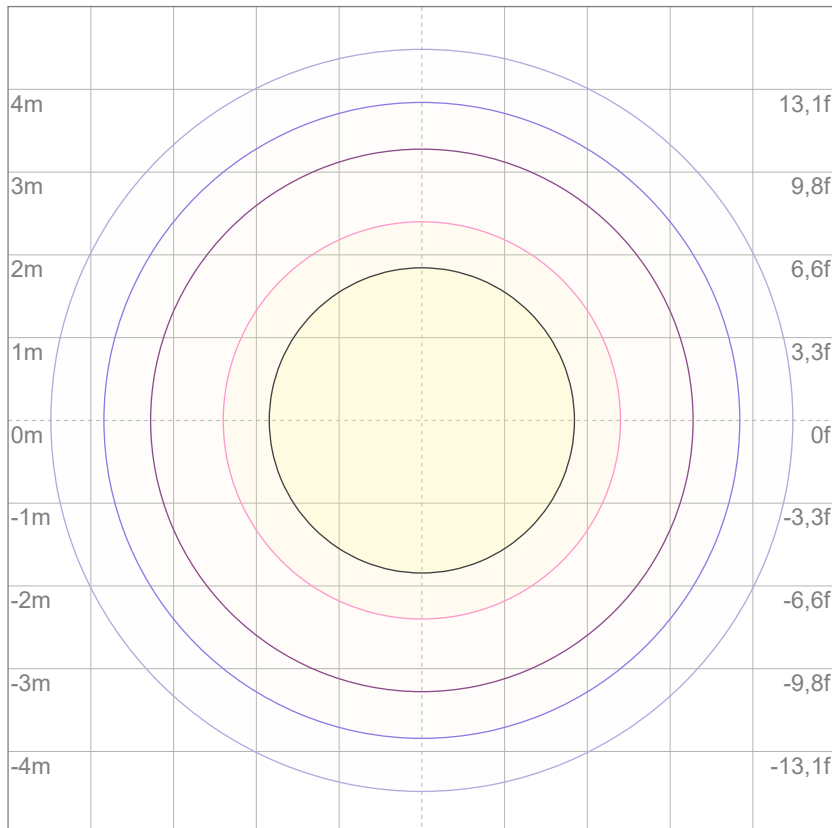
10%	2122 cd
20%	4244 cd
30%	6366 cd
40%	8488 cd
50%	10611 cd
60%	12733 cd
70%	14855 cd
80%	16977 cd

Conditions:

Number of c-planes: 2

Candela at center: 21221 cd

ISO LUX DIAGRAM



3%	6,37 lx
5%	10,6 lx
10%	21,2 lx
30%	63,7 lx
50%	106 lx

Conditions:

Number of c-planes: 2

Lux at center: 212 lx

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



Total lumen output:

7212 lm

Peak candela output:

41628 cd

PRODUCT NAME:

ARCSPOTXLFC

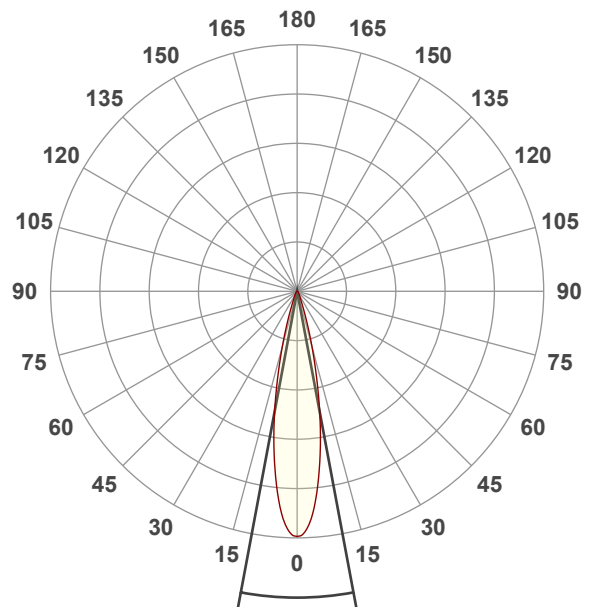
MEASUREMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
Green

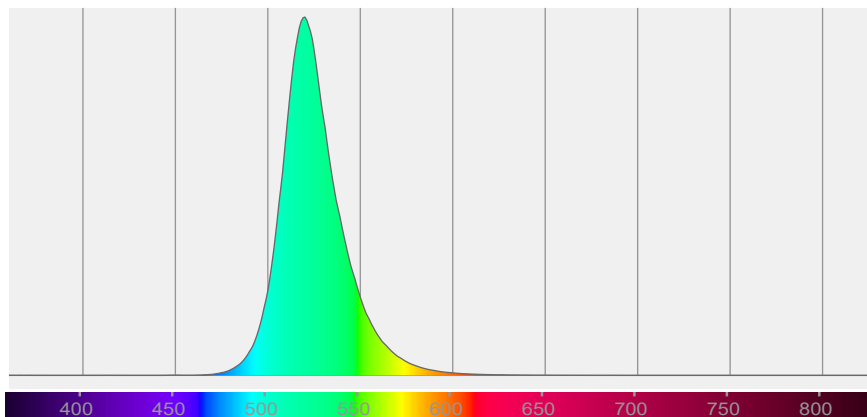
Operator:
Salvatore Giglio

Date and time:
08/11/2024 09:50:38



Beam angle 50%: 21,2°
Field angle 10%: 37,3°
Cut off angle 2.5%: 53,9°

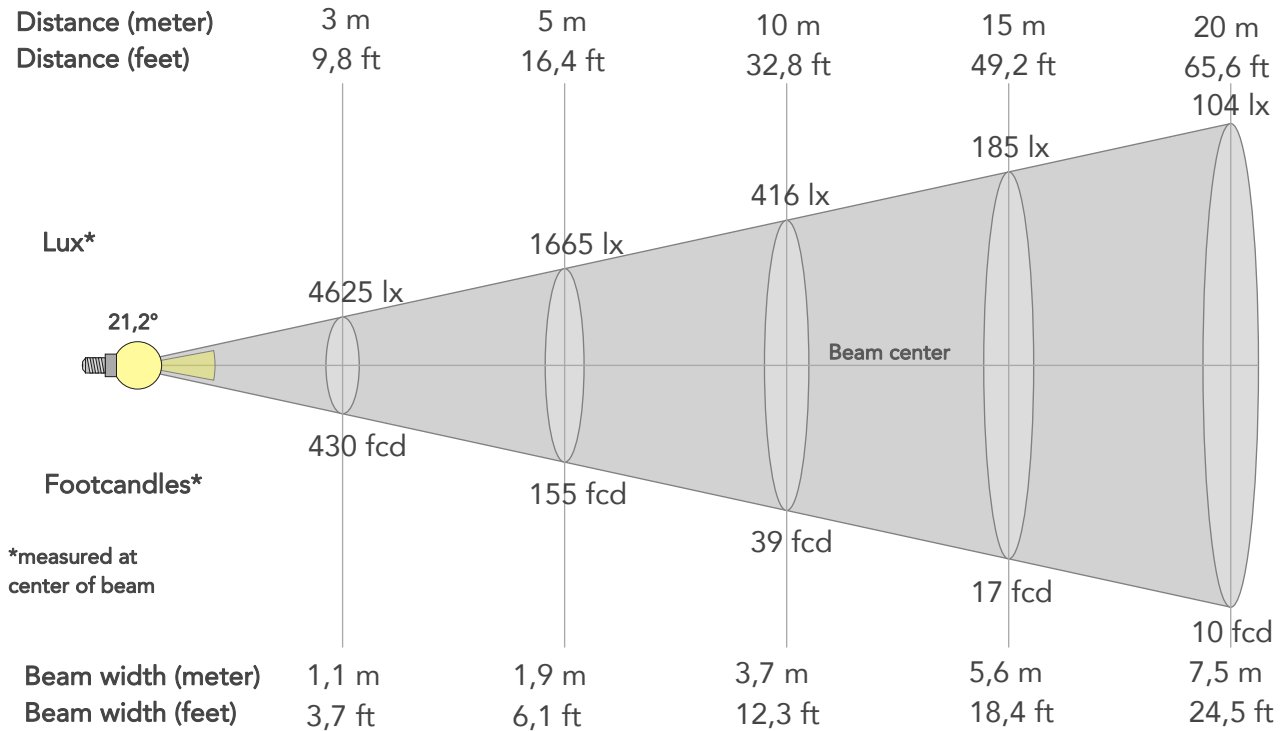
Spectra



BEAM DETAILS



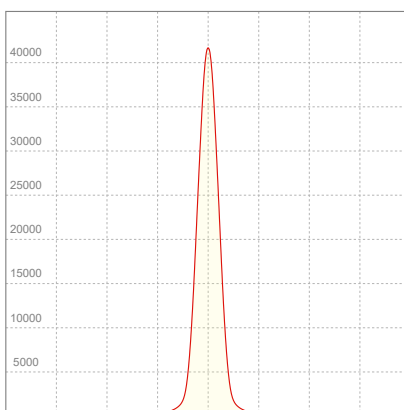
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,2°	37,3°	53,9°	98,0%	94,5%



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	41628lx	10407lx	4625lx	2602lx	1665lx	740lx	416lx	185lx	104lx	67lx	46lx	26lx	17lx
Footcand.	3867fcd	967fcd	430fcd	242fcd	155fcd	69fcd	39fcd	17fcd	10fcd	6fcd	4fcd	2fcd	2fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,9m	2,8m	3,7m	5,6m	7,5m	9,4m	11,2m	15m	18,7m
Beam wid.	1,2ft	2,5ft	3,7ft	4,9ft	6,1ft	9,2ft	12,3ft	18,4ft	24,5ft	30,7ft	36,8ft	49,1ft	61,4ft

LINEAR DISTRIBUTION DIAGRAM

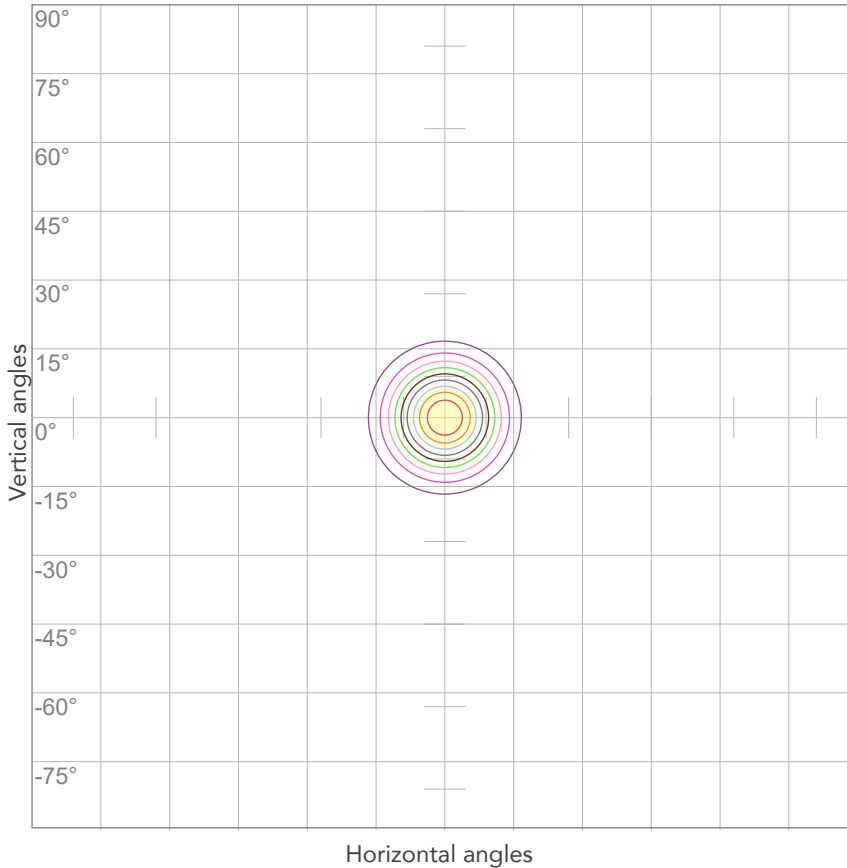


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,556A	102,6W	0,82	70lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



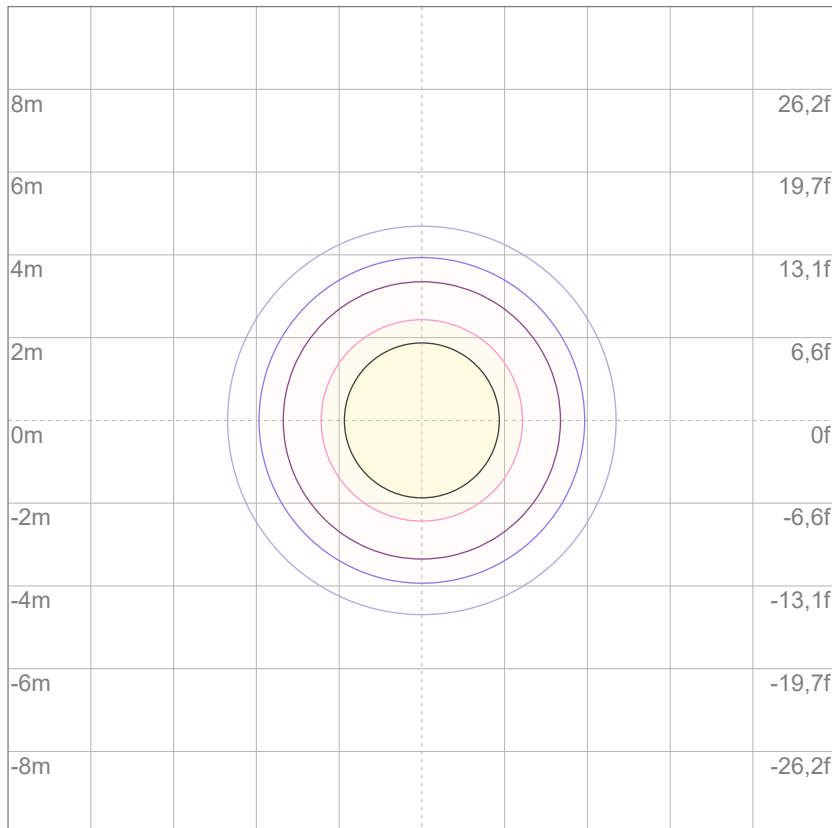
10%	4163 cd
20%	8326 cd
30%	12488 cd
40%	16651 cd
50%	20814 cd
60%	24977 cd
70%	29140 cd
80%	33302 cd

Conditions:

Number of c-planes: 2

Candela at center: 41628 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	12,5 lx
5%	20,8 lx
10%	41,6 lx
30%	125 lx
50%	208 lx

Conditions:

Number of c-planes: 2

Lux at center: 416 lx

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



Total lumen output:

1316 lm

Peak candela output:

7706 cd

PRODUCT NAME:

ARCSPOTXLFC

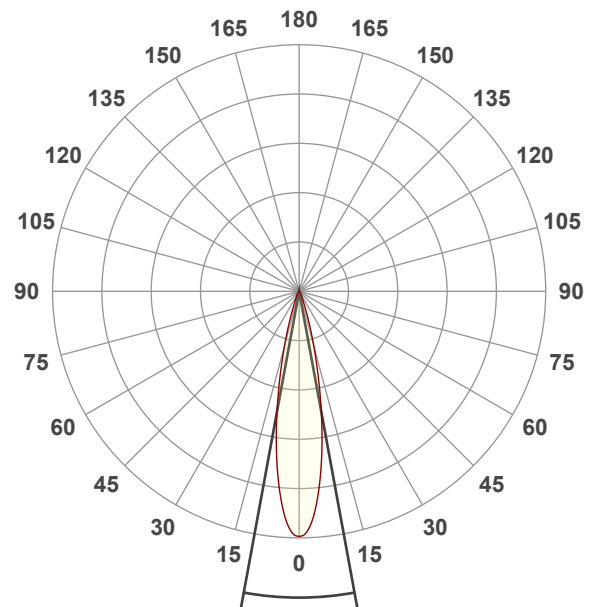
MEASUREMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
Blue

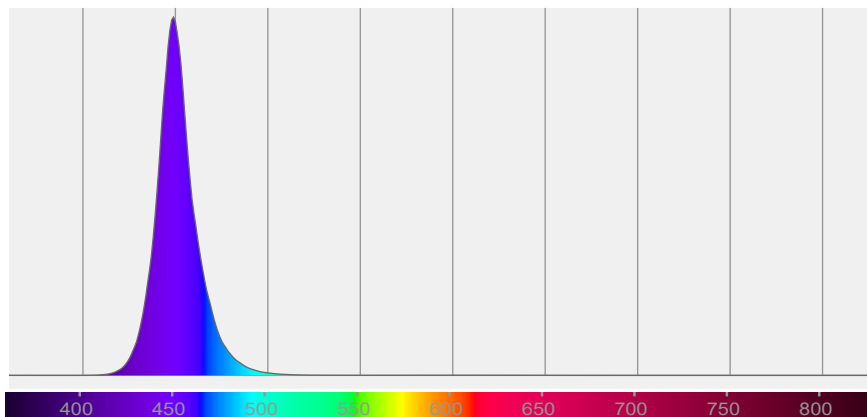
Operator:
Salvatore Giglio

Date and time:
08/11/2024 09:52:30



Beam angle 50%: 20,8°
Field angle 10%: 37,5°
Cut off angle 2.5%: 53,3°

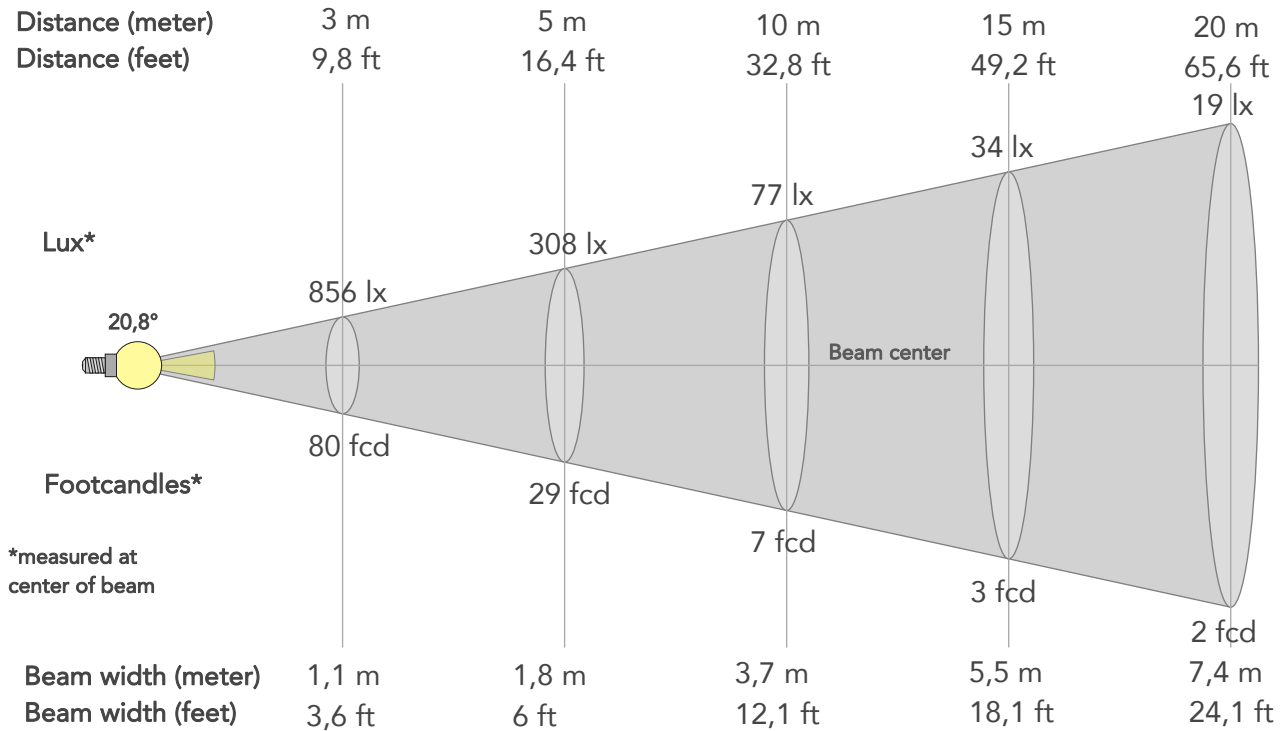
Spectra



BEAM DETAILS



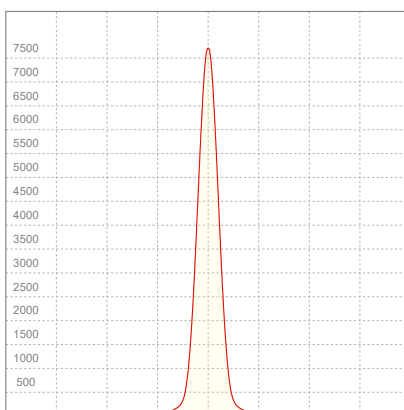
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,8°	37,5°	53,3°	98,0%	94,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	7706lx	1927lx	856lx	482lx	308lx	137lx	77lx	34lx	19lx	12lx	9lx	5lx	3lx
Footcand.	716fcd	179fcd	80fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12,1ft	18,1ft	24,1ft	30,1ft	36,2ft	48,2ft	60,3ft

LINEAR DISTRIBUTION DIAGRAM

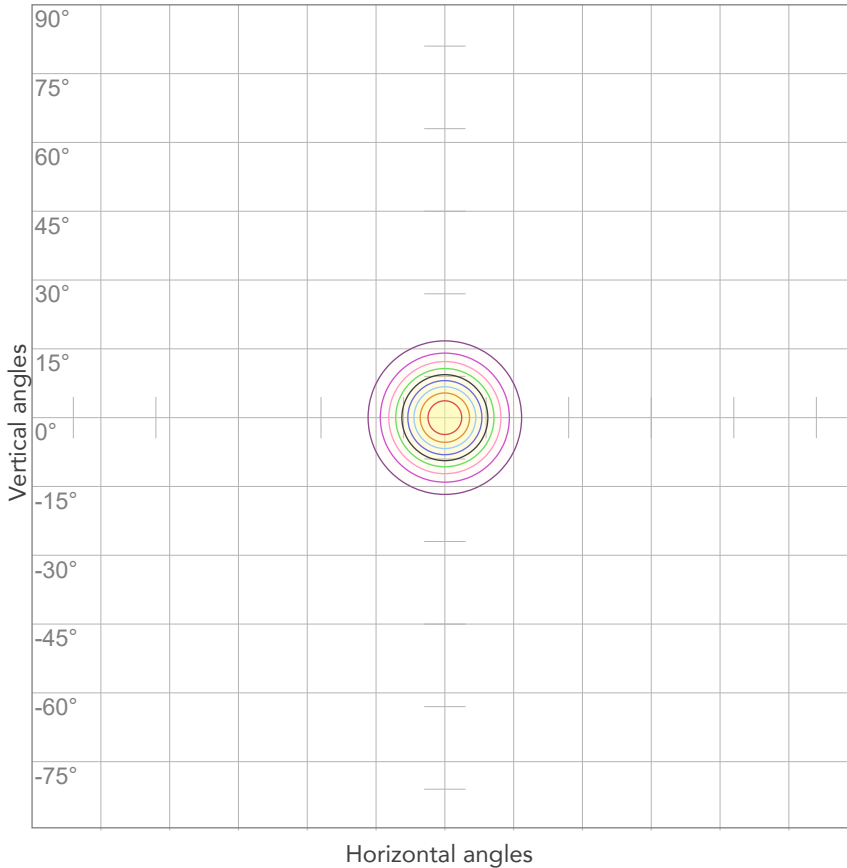


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	0,569A	106,1W	0,83	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



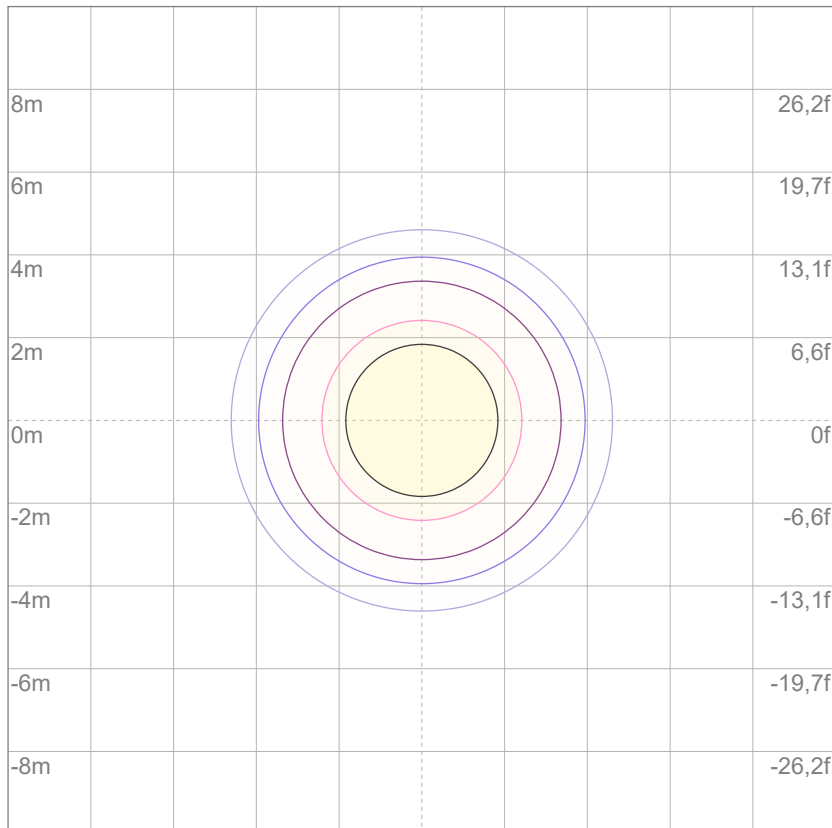
10%	771 cd
20%	1541 cd
30%	2312 cd
40%	3082 cd
50%	3853 cd
60%	4624 cd
70%	5394 cd
80%	6165 cd

Conditions:

Number of c-planes: 2

Candela at center: 7706 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,31 lx
5%	3,85 lx
10%	7,71 lx
30%	23,1 lx
50%	38,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 77,1 lx

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



Total lumen output:

9548 lm

Peak candela output:

56320 cd

Light quality:

CRI: 83,8

Color temperature:

2975 K

PRODUCT NAME:

ARCSPOTXLFC

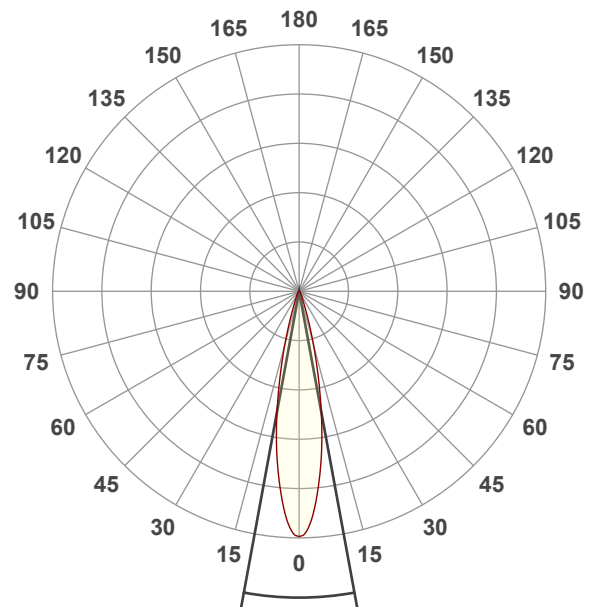
MEASUREMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
White

Operator:
Salvatore Giglio

Date and time:
08/11/2024 10:05:20

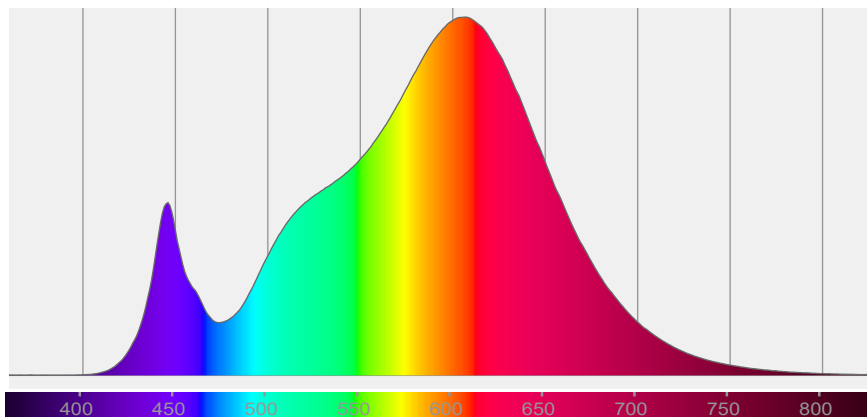


Beam angle 50%: 20,8°

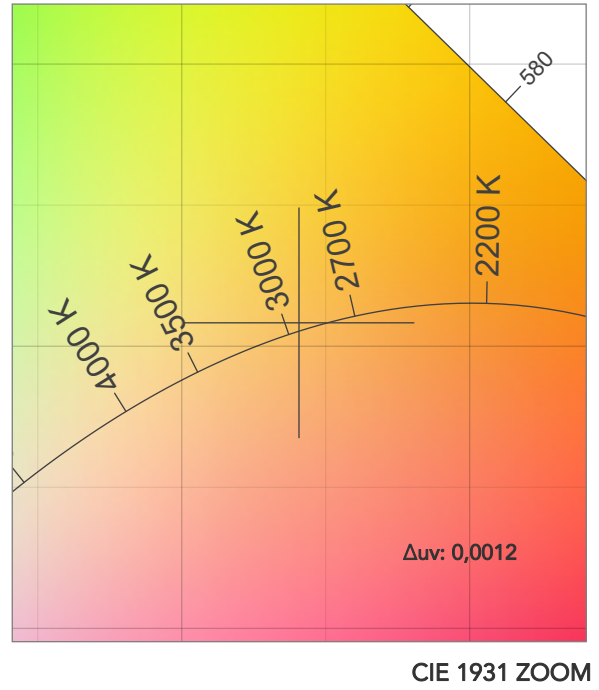
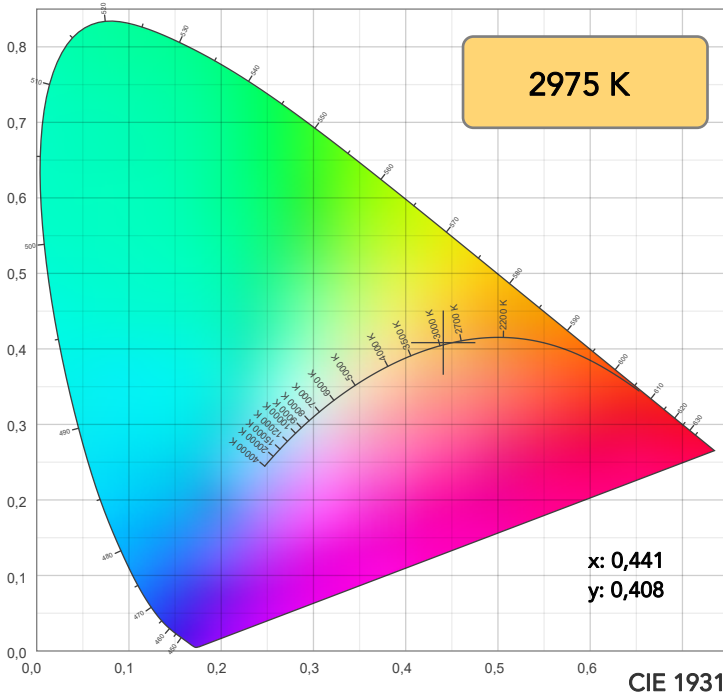
Field angle 10%: 36,9°

Cut off angle 2.5%: 53,7°

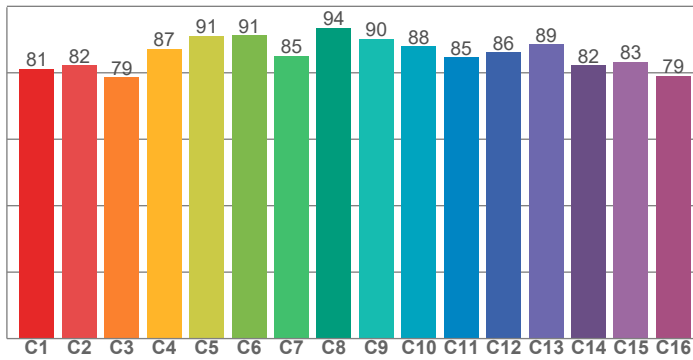
Spectra



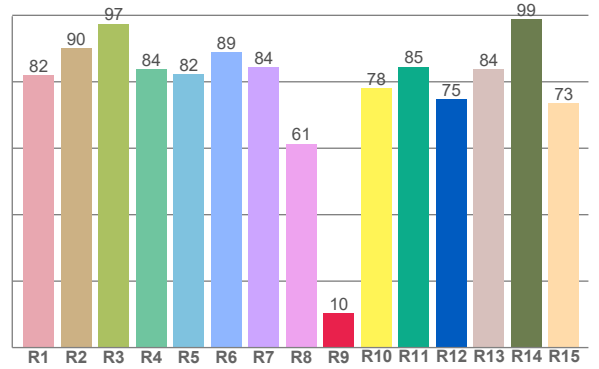
COLOR DETAILS



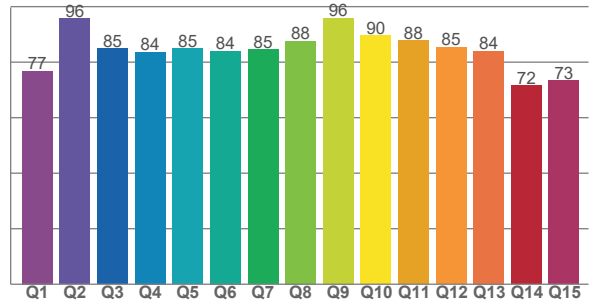
TM30: 85,6



CRI: 83,8 (R1-R8)



CQS: 83,2



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82,1	90,2	97,5	83,9	82,4	88,8	84,4	61,4	10,5	78,1	84,5	74,8	83,8	98,7	73,5

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
81,2	82,3	78,6	87,2	91,1	91,3	85,1	93,5	90,2	88,0	84,6	86,2	88,6	82,3	83,3	79,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,8	95,7	84,9	83,7	84,9	84,0	84,6	87,6	95,9	89,7	87,8	85,4	84,0	71,7	73,4

COLOR PARAMETERS

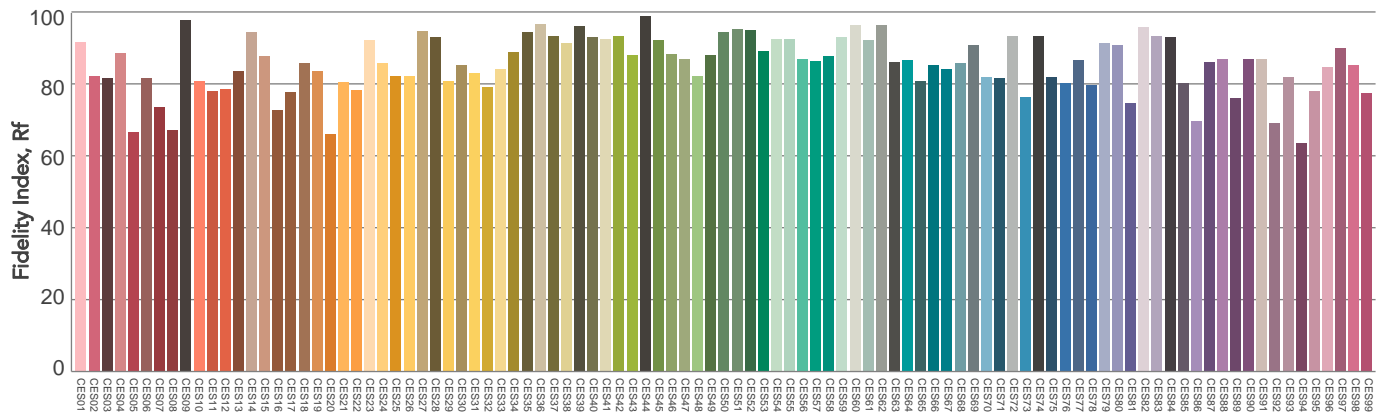
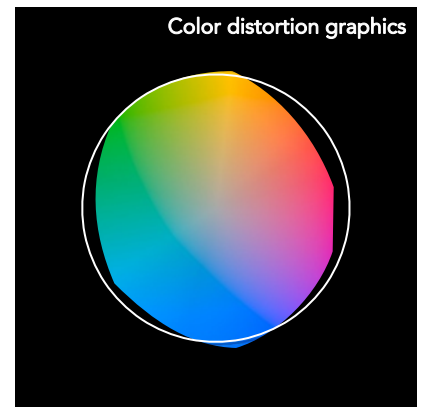
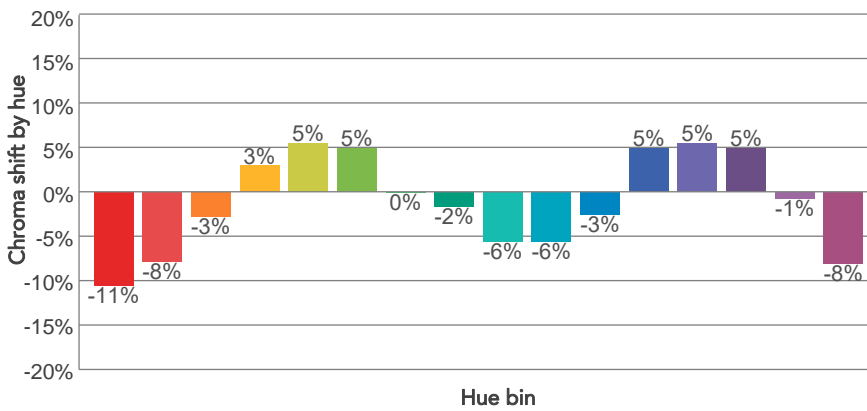
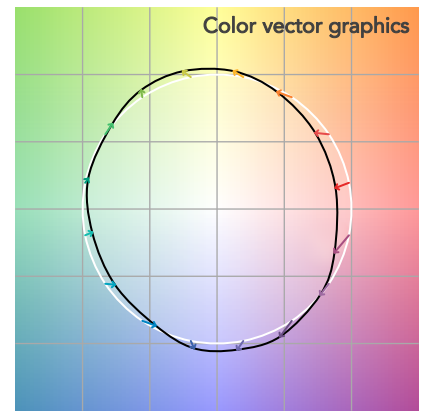
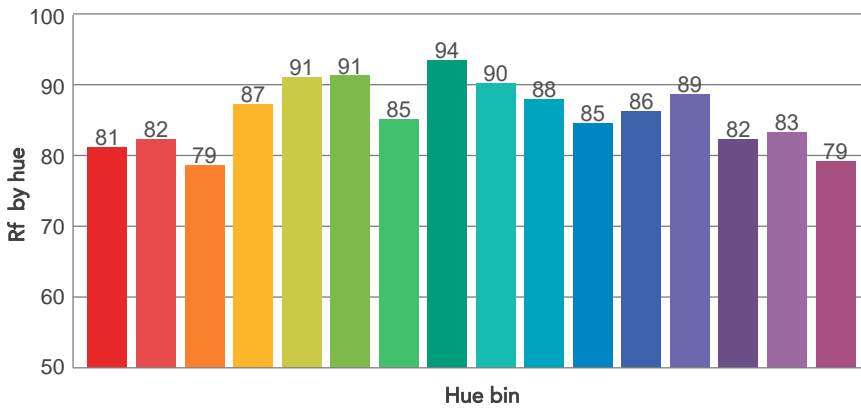
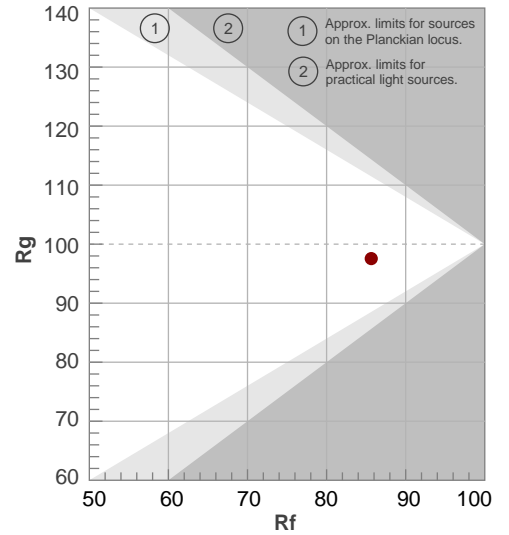
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2975 K	83,8	10,5	85,6	97,6	83,2	68	0,441	0,408	0,0012

TM30 DETAILS

Rf 85,6
Fidelity index Rf

Rg 97,6
Gammut index

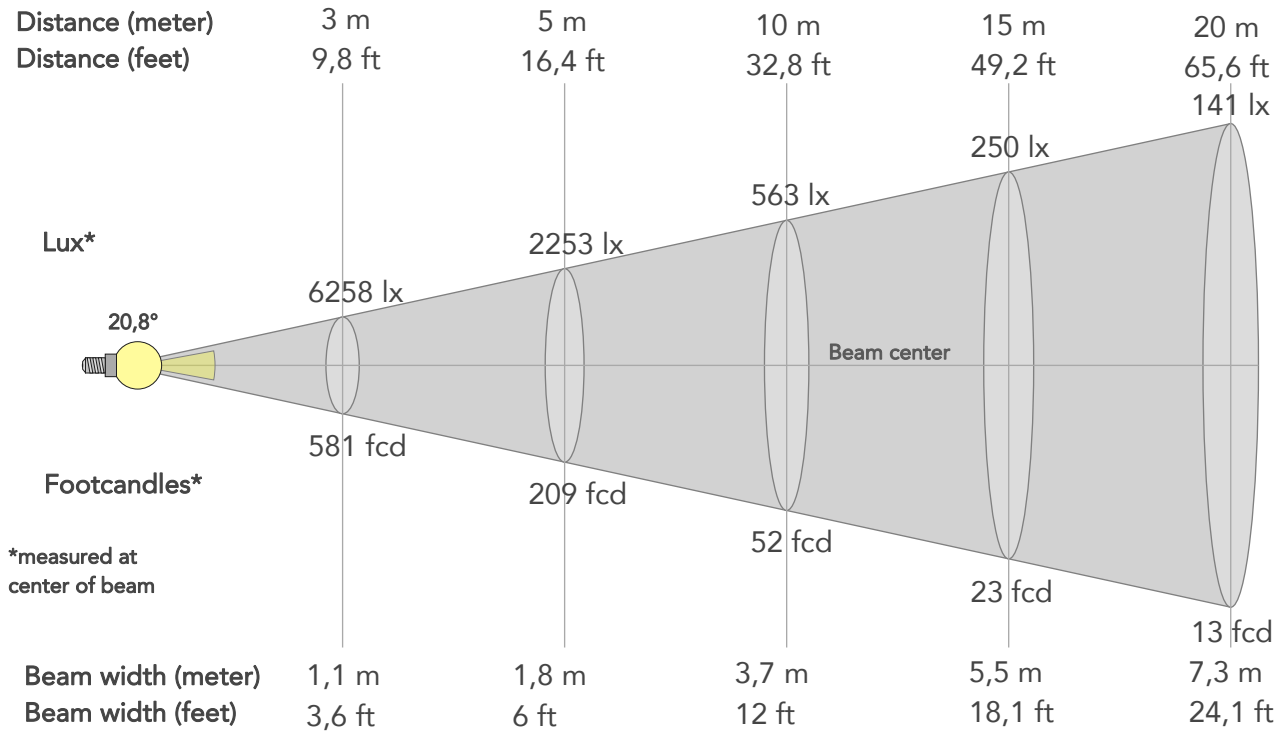
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	-2%
2	82	-8%	7%
3	79	-3%	11%
4	87	3%	8%
5	91	5%	5%
6	91	5%	-2%
7	85	0%	-9%
8	94	-2%	-4%
9	90	-6%	-1%
10	88	-6%	5%
11	85	-3%	10%
12	86	5%	3%
13	89	5%	-6%
14	82	5%	-14%
15	83	-1%	-10%
16	79	-8%	-15%



BEAM DETAILS



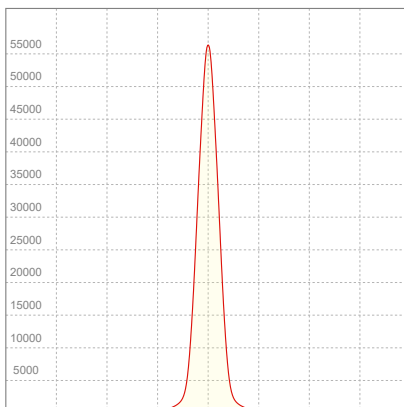
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,8°	36,9°	53,7°	97,9%	94,3%



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	56320lx	14080lx	6258lx	3520lx	2253lx	1001lx	563lx	250lx	141lx	90lx	63lx	35lx	23lx
Footcand.	5232fcd	1308fcd	581fcd	327fcd	209fcd	93fcd	52fcd	23fcd	13fcd	8fcd	6fcd	3fcd	2fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,3m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12ft	18,1ft	24,1ft	30,1ft	36,1ft	48,2ft	60,2ft

LINEAR DISTRIBUTION DIAGRAM

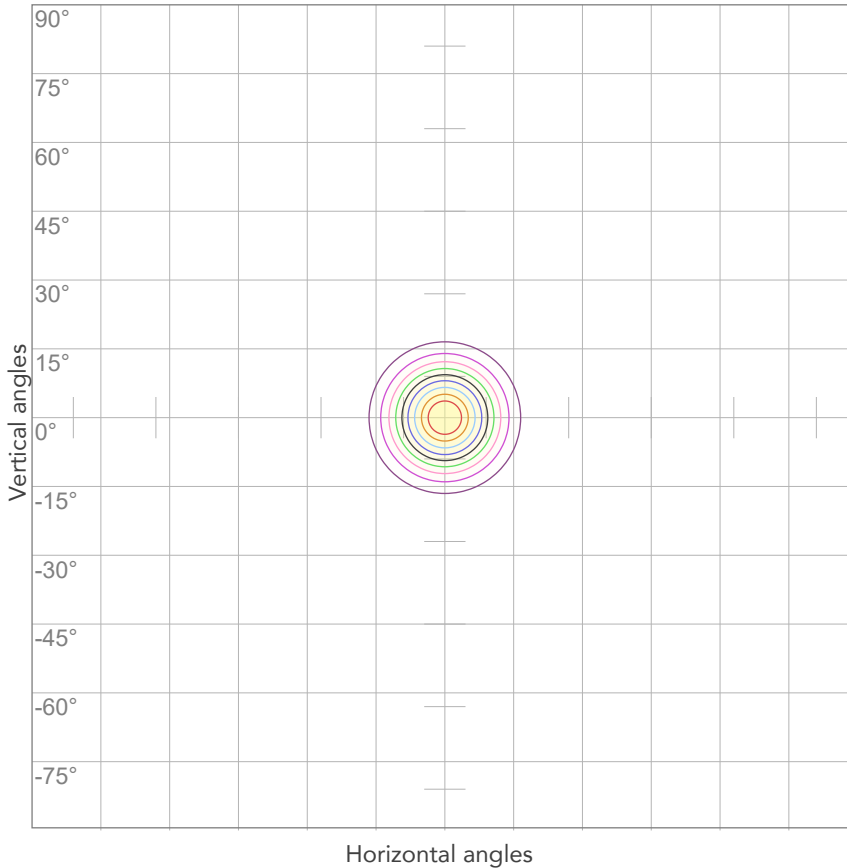


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
224V	0,689A	137,5W	0,89	69lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



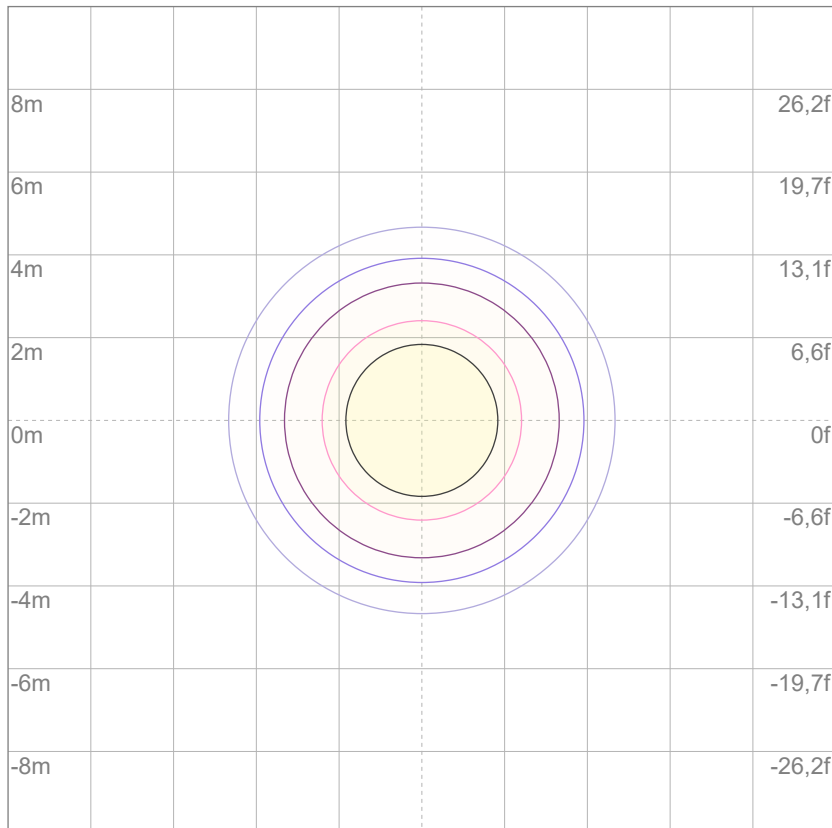
10%	5632 cd
20%	11264 cd
30%	16896 cd
40%	22528 cd
50%	28160 cd
60%	33792 cd
70%	39424 cd
80%	45056 cd

Conditions:

Number of c-planes: 2

Candela at center: 56320 cd

ISO LUX DIAGRAM



3%	16,9 lx
5%	28,2 lx
10%	56,3 lx
30%	169 lx
50%	282 lx

Conditions:

Number of c-planes: 2

Lux at center: 563 lx

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



Total lumen output:

12889 lm

Peak candela output:

79020 cd

Light quality:

CRI: 84,3

Color temperature:

2839 K

PRODUCT NAME:

ARCSPOTXLFC

MEASURAMENT CONDITIONS:

Beam angle:

25Deg Optic

Target:

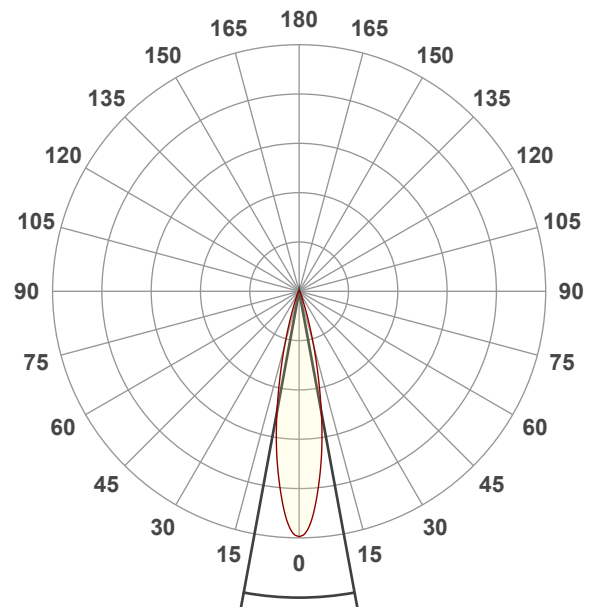
2800K

Operator:

Salvatore Giglio

Date and time:

08/11/2024 10:47:44

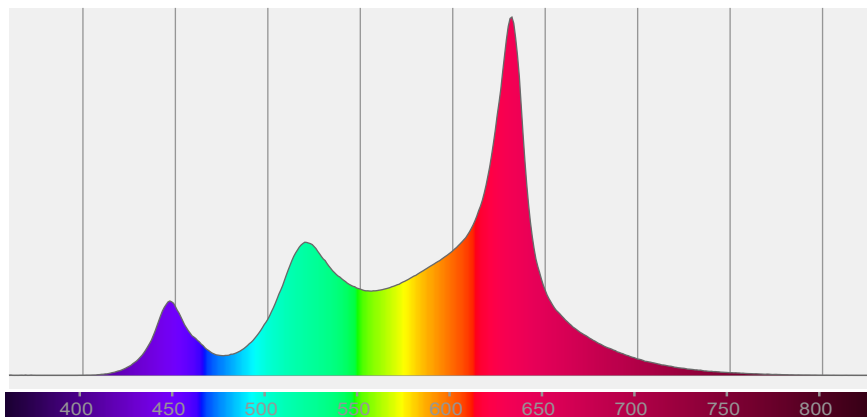


Beam angle 50%: 20,9°

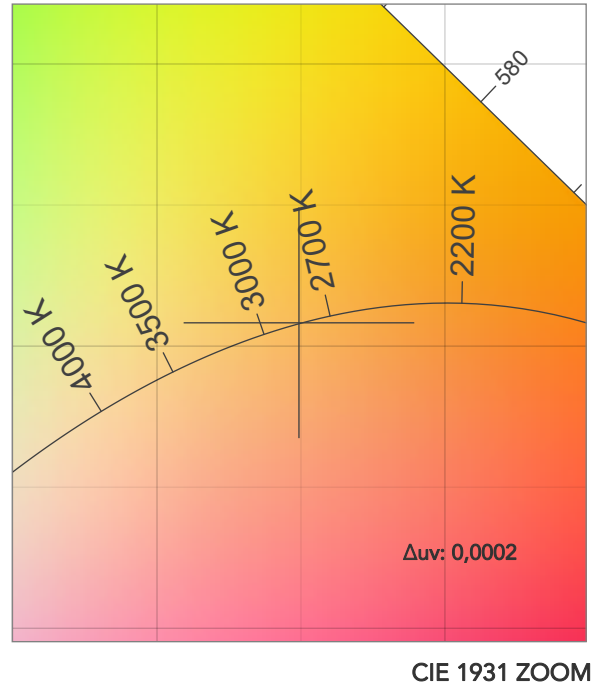
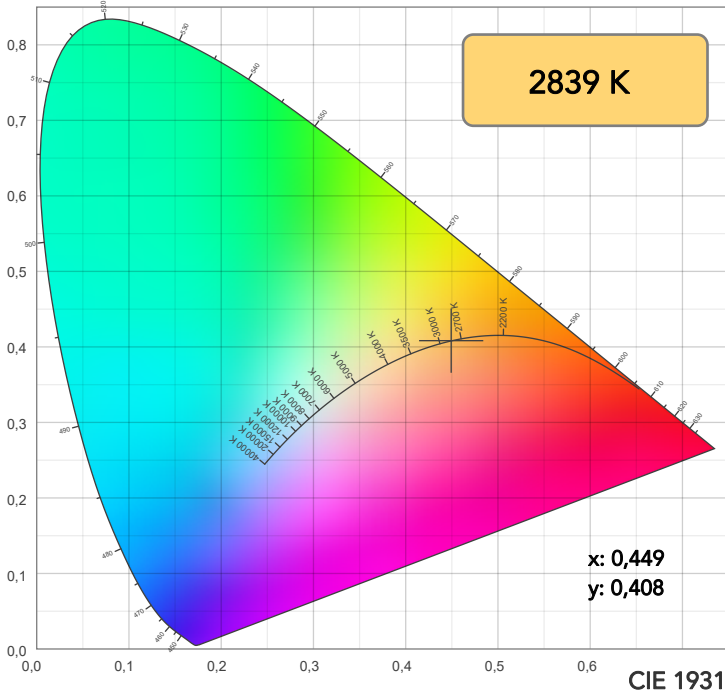
Field angle 10%: 36,8°

Cut off angle 2.5%: 52,3°

Spectra

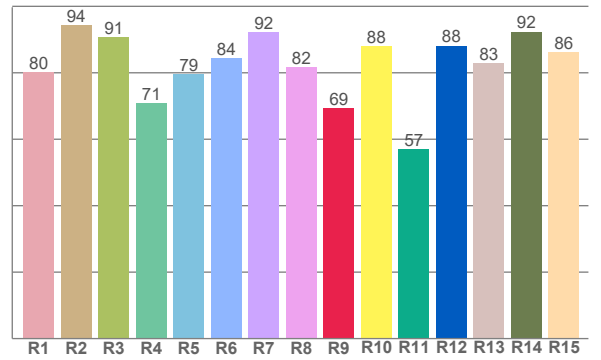
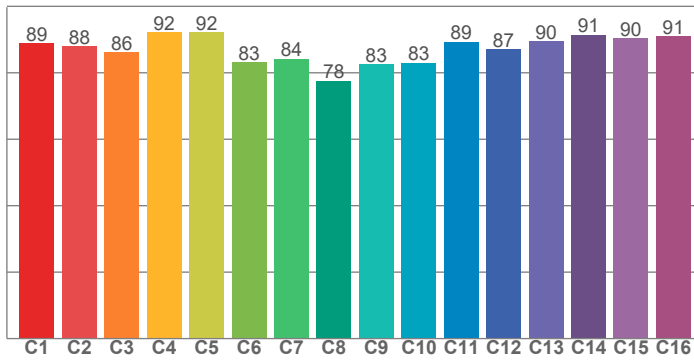


COLOR DETAILS



TM30: 87,8

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
80,2	94,4	90,7	70,9	79,5	84,3	92,3	81,8	69,4	88,0	56,9	88,2	83,0	92,4	86,2

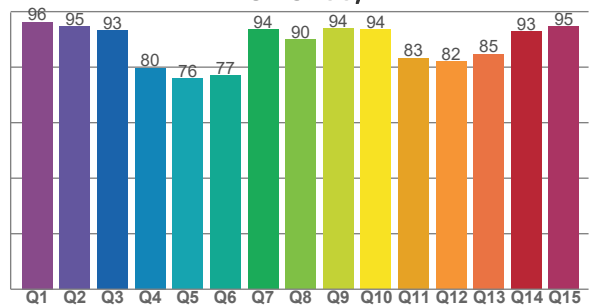
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,8	87,9	86,2	92,1	92,2	83,1	84,2	77,6	82,5	83,0	89,3	87,1	89,5	91,5	90,4	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,3	94,7	93,2	79,7	76,0	77,0	93,5	90,0	94,0	93,6	83,2	82,1	84,8	92,8	94,7

CQS: 86,2



COLOR PARAMETERS

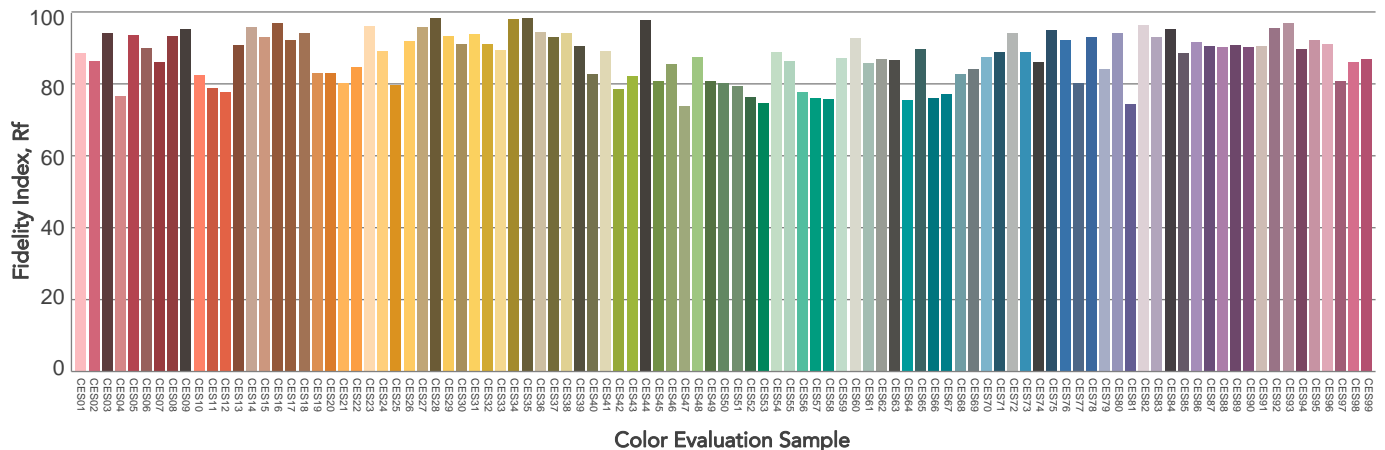
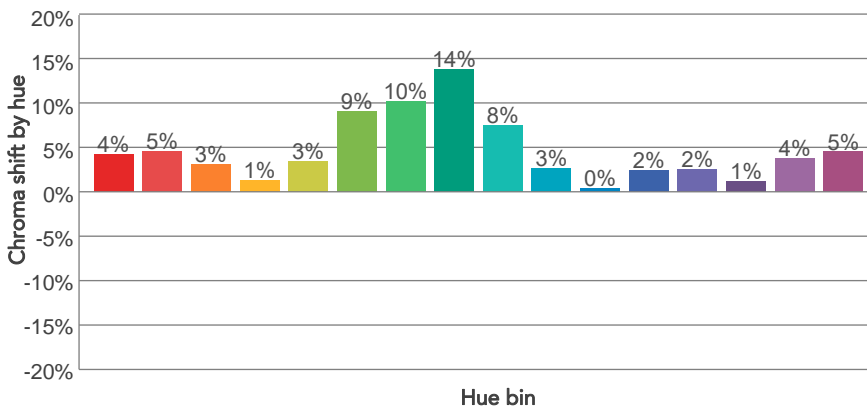
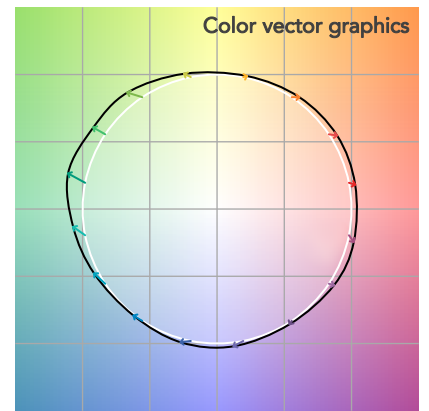
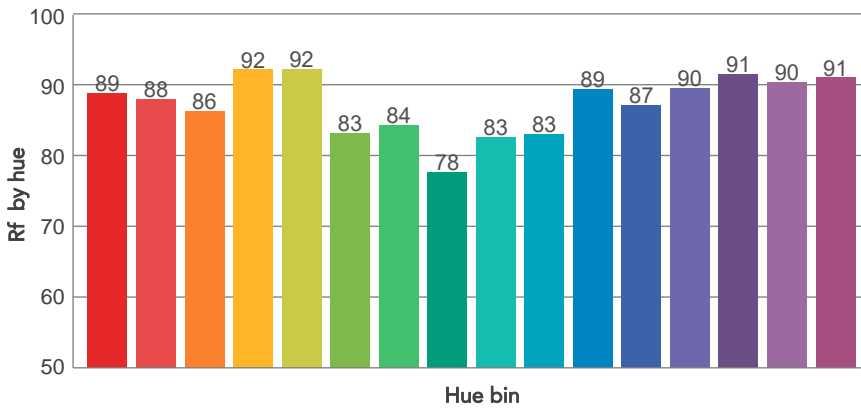
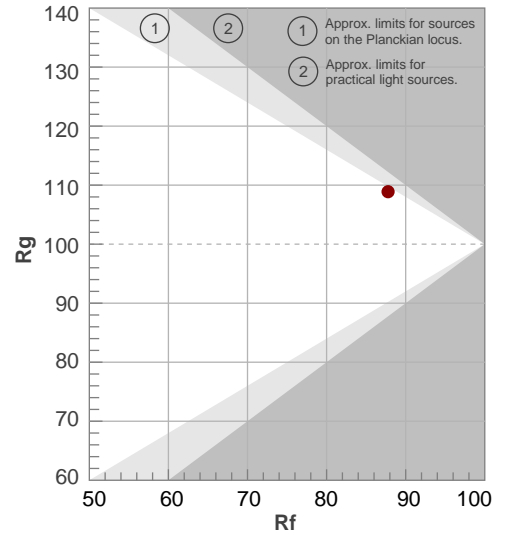
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2839 K	84,3	69,4	87,8	108,9	86,2	65	0,449	0,408	0,0002

TM30 DETAILS

Rf 87,8
Fidelity index Rf

Rg 108,9
Gammut index

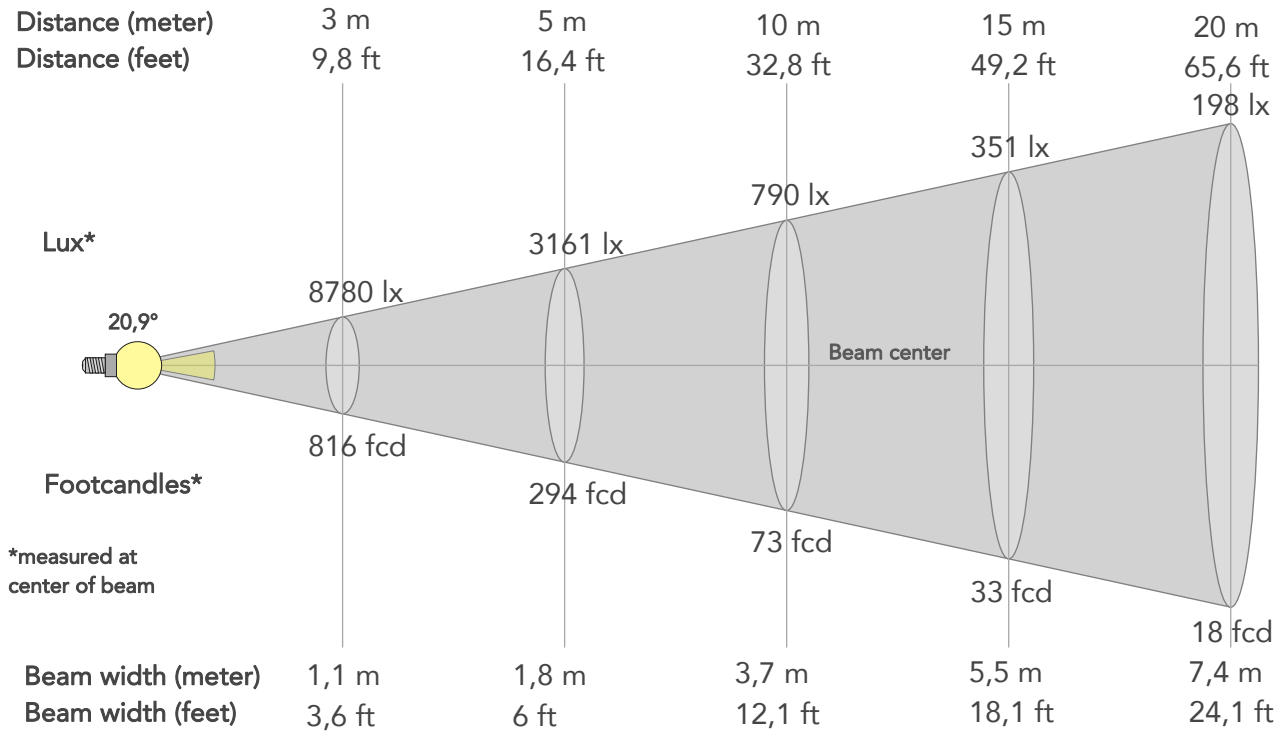
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	4%	-2%
2	88	5%	-4%
3	86	3%	-5%
4	92	1%	-3%
5	92	3%	4%
6	83	9%	7%
7	84	10%	1%
8	78	14%	-4%
9	83	8%	-8%
10	83	3%	-11%
11	89	0%	-8%
12	87	2%	-7%
13	90	2%	-8%
14	91	1%	-3%
15	90	4%	1%
16	91	5%	-4%



BEAM DETAILS



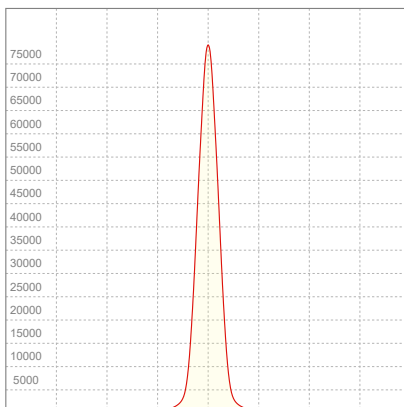
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,8°	52,3°	99,2%	96,6%



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	79020lx	19755lx	8780lx	4939lx	3161lx	1405lx	790lx	351lx	198lx	126lx	88lx	49lx	32lx
Footcand.	7341fcd	1835fcd	816fcd	459fcd	294fcd	131fcd	73fcd	33fcd	18fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,1ft	30,2ft	36,2ft	48,3ft	60,4ft

LINEAR DISTRIBUTION DIAGRAM

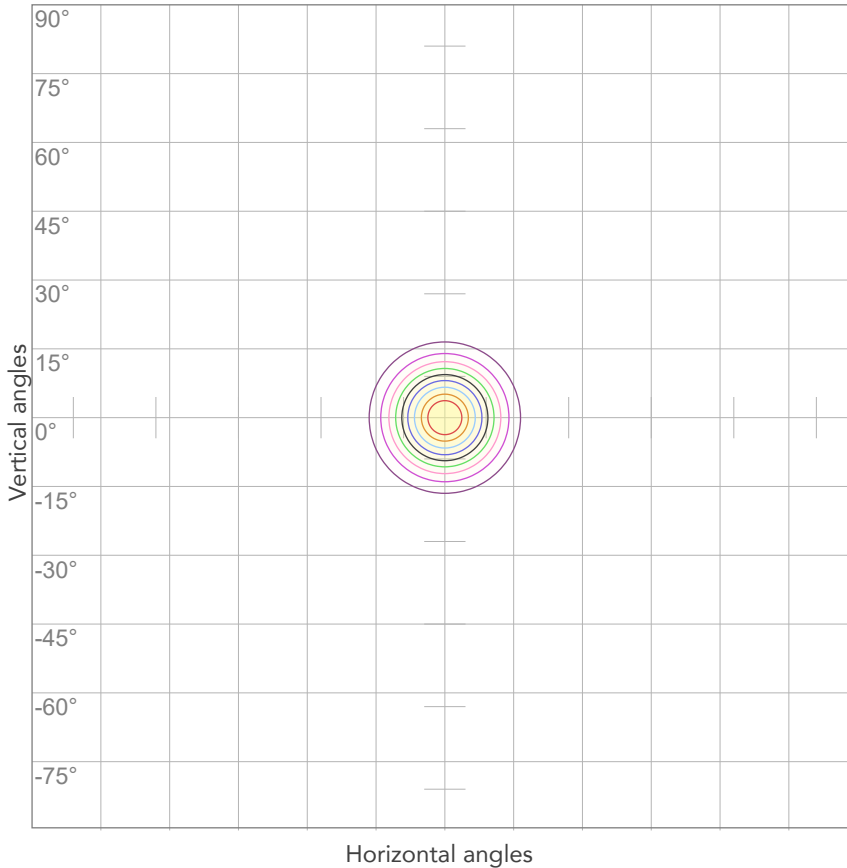


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	1,00A	213,8W	0,95	60lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



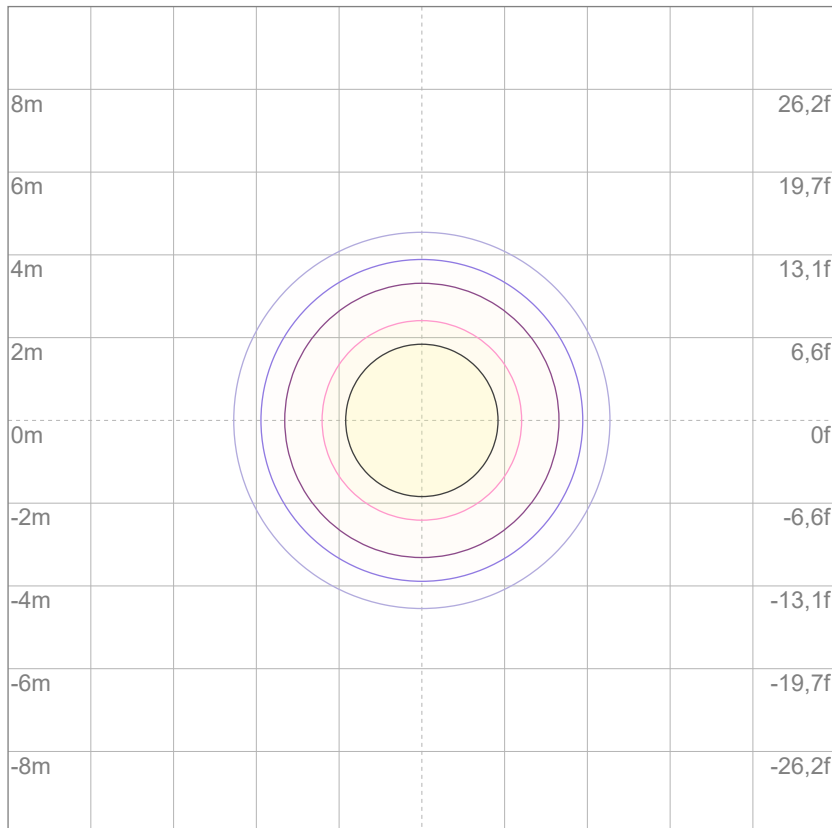
10%	7902 cd
20%	15804 cd
30%	23706 cd
40%	31608 cd
50%	39510 cd
60%	47412 cd
70%	55314 cd
80%	63216 cd

Conditions:

Number of c-planes: 2

Candela at center: 79020 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	23,7 lx
5%	39,5 lx
10%	79,0 lx
30%	237 lx
50%	395 lx

Conditions:

Number of c-planes: 2

Lux at center: 790 lx

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



Total lumen output:

13345 lm

Peak candela output:

81069 cd

Light quality:

CRI: 83,5

Color temperature:

3267 K

PRODUCT NAME:

ARCSPOTXLFC

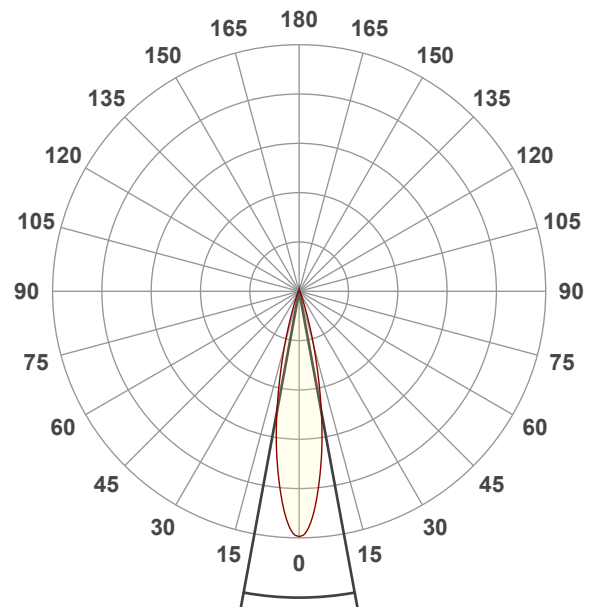
MEASURAMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
3200K

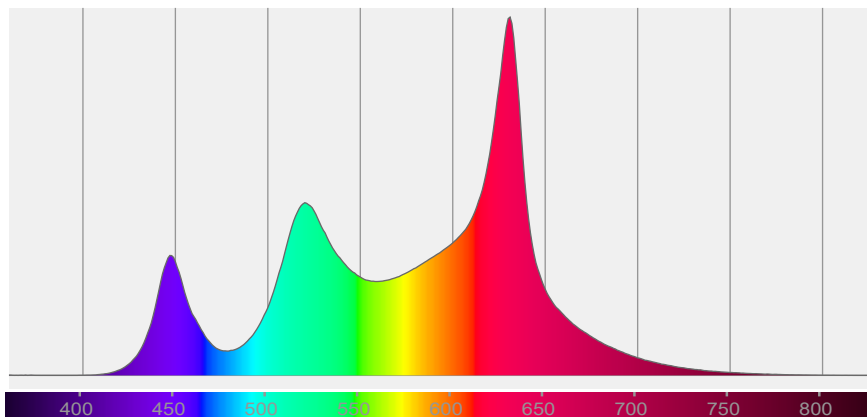
Operator:
Salvatore Giglio

Date and time:
08/11/2024 10:21:55

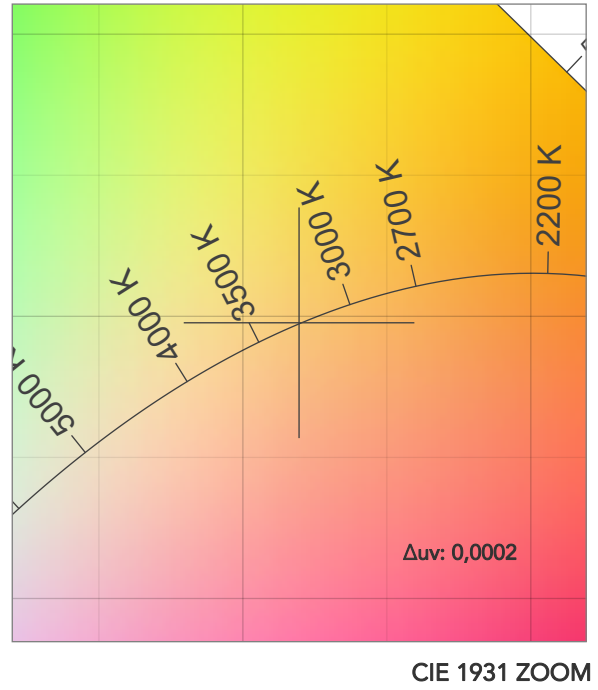
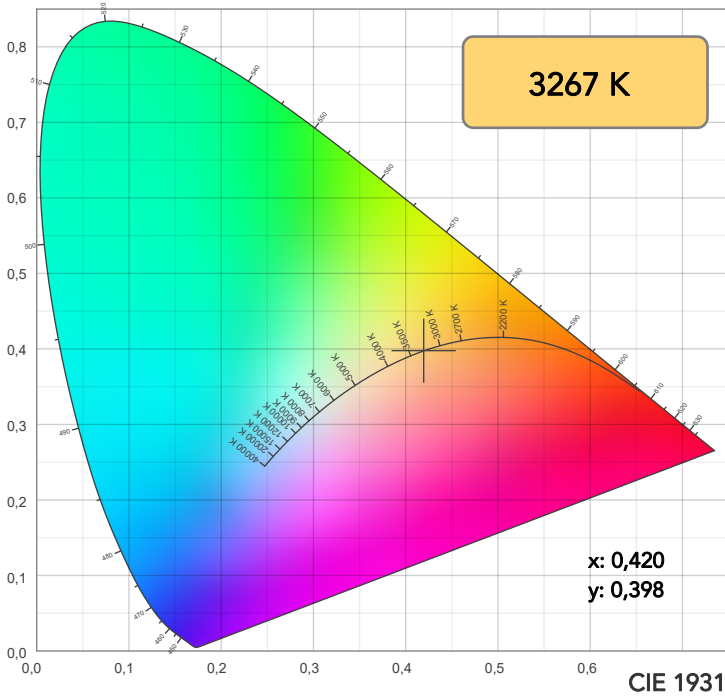


Beam angle 50%: 20,9°
Field angle 10%: 36,9°
Cut off angle 2.5%: 52,6°

Spectra

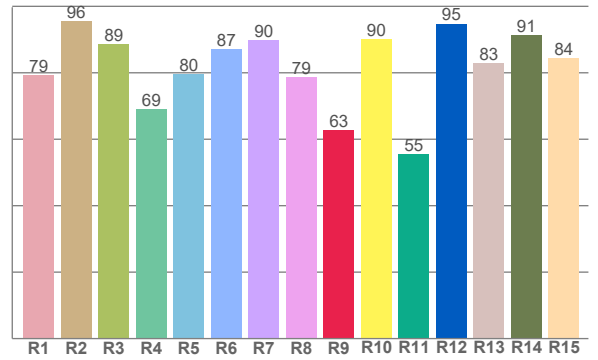
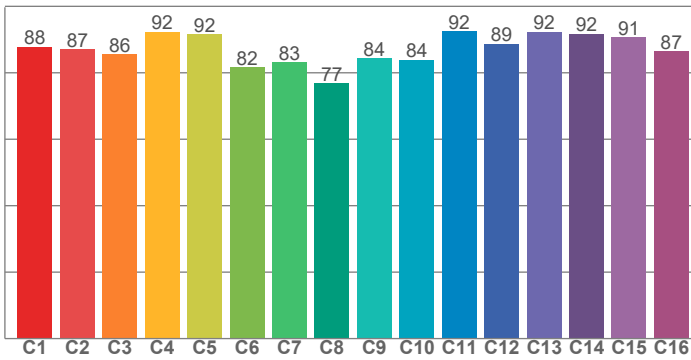


COLOR DETAILS



TM30: 87,8

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
79,2	95,5	88,6	69,0	79,7	87,0	89,7	78,8	62,8	90,1	55,5	94,8	82,9	91,3	84,4

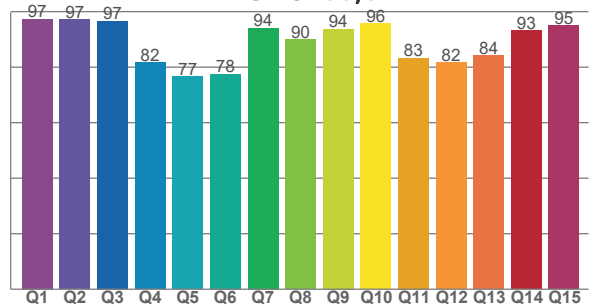
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,8	87,0	85,6	92,3	91,6	81,7	83,1	76,9	84,3	83,9	92,4	88,7	92,3	91,7	90,7	86,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,4	97,2	96,7	81,7	76,7	77,6	94,1	89,9	93,8	95,7	83,2	81,6	84,2	93,3	95,0

CQS: 86,8



COLOR PARAMETERS

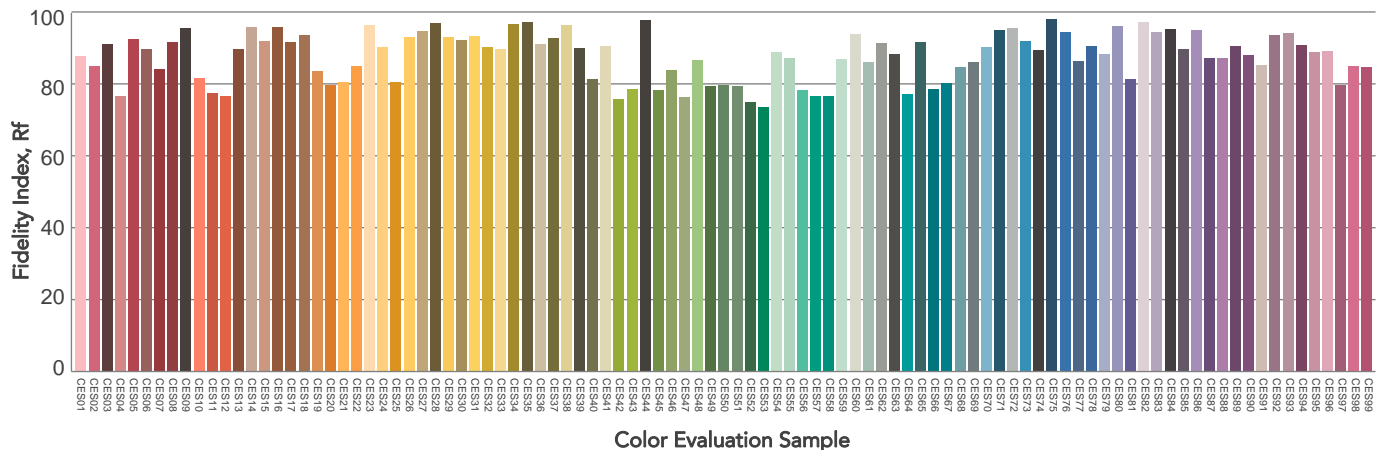
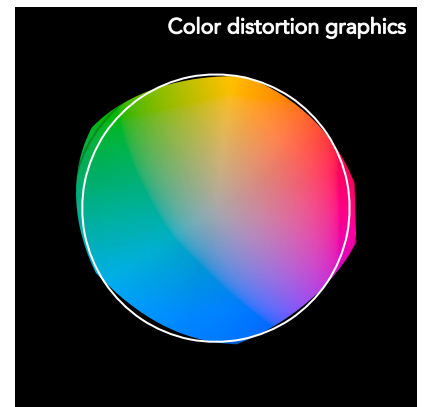
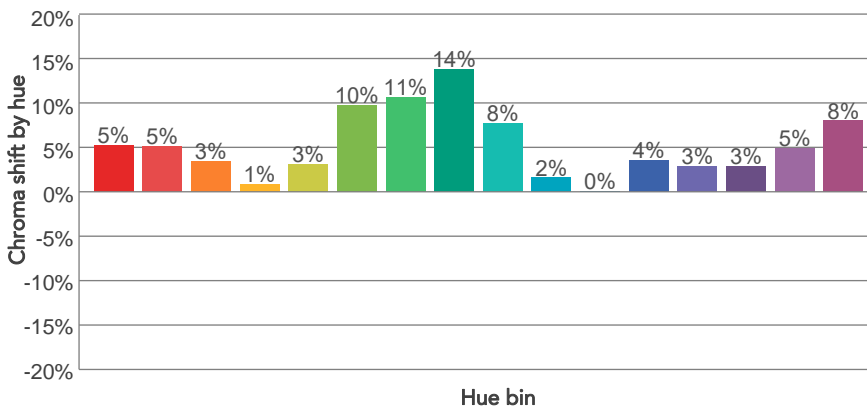
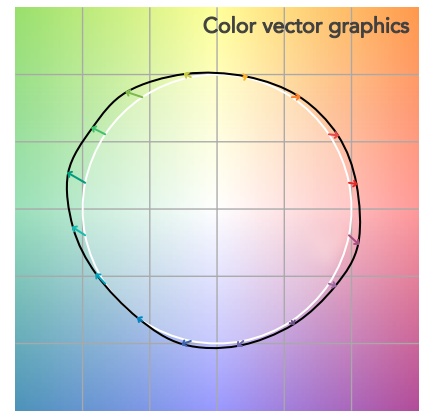
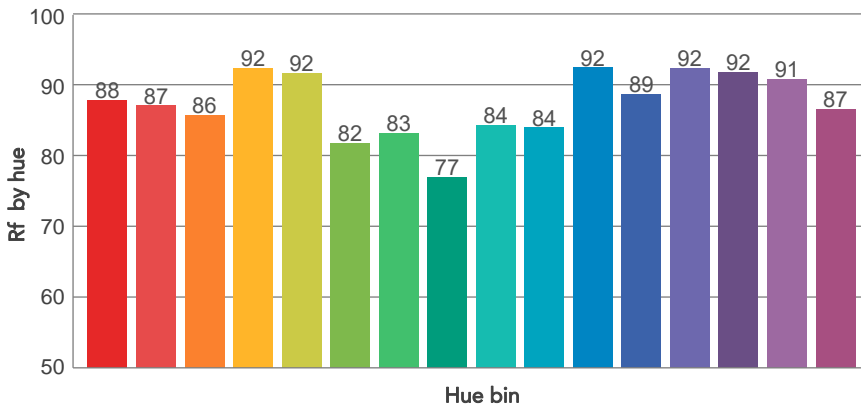
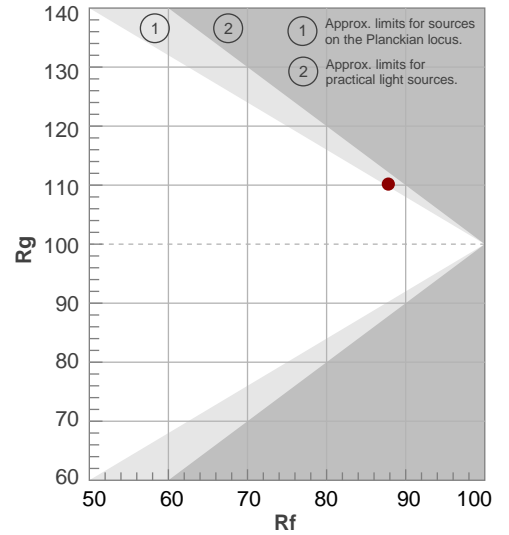
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3267 K	83,5	62,8	87,8	110,2	86,8	64	0,420	0,398	0,0002

TM30 DETAILS

Rf 87,8
Fidelity index Rf

Rg 110,2
Gammut index

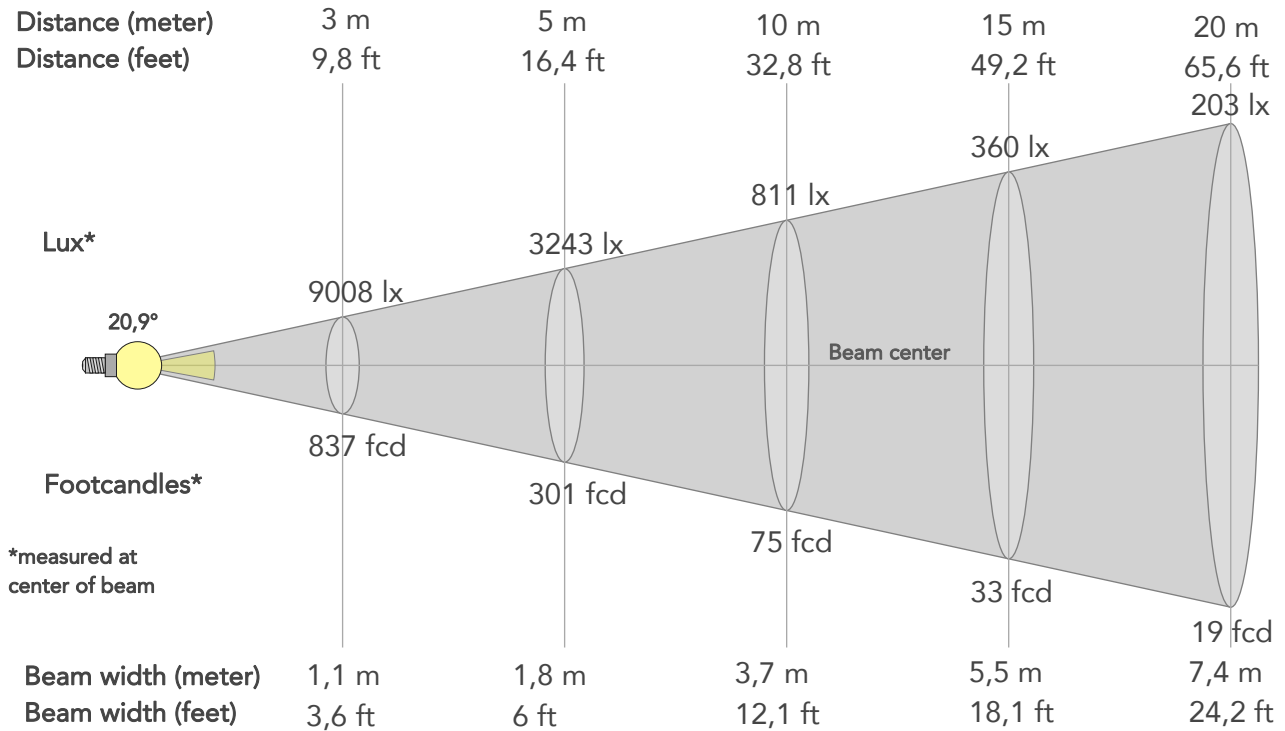
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	5%	-2%
2	87	5%	-4%
3	86	3%	-5%
4	92	1%	-2%
5	92	3%	4%
6	82	10%	8%
7	83	11%	1%
8	77	14%	-5%
9	84	8%	-7%
10	84	2%	-9%
11	92	0%	-4%
12	89	4%	-5%
13	92	3%	-5%
14	92	3%	0%
15	91	5%	2%
16	87	8%	-5%



BEAM DETAILS



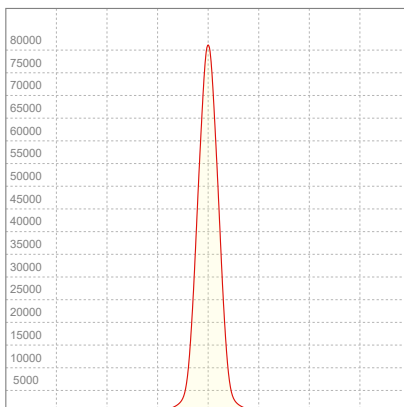
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,9°	52,6°	99,1%	96,3%



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	81069lx	20267lx	9008lx	5067lx	3243lx	1441lx	811lx	360lx	203lx	130lx	90lx	51lx	32lx
Footcand.	7532fcd	1883fcd	837fcd	471fcd	301fcd	134fcd	75fcd	33fcd	19fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,8m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,3ft	48,4ft	60,5ft

LINEAR DISTRIBUTION DIAGRAM

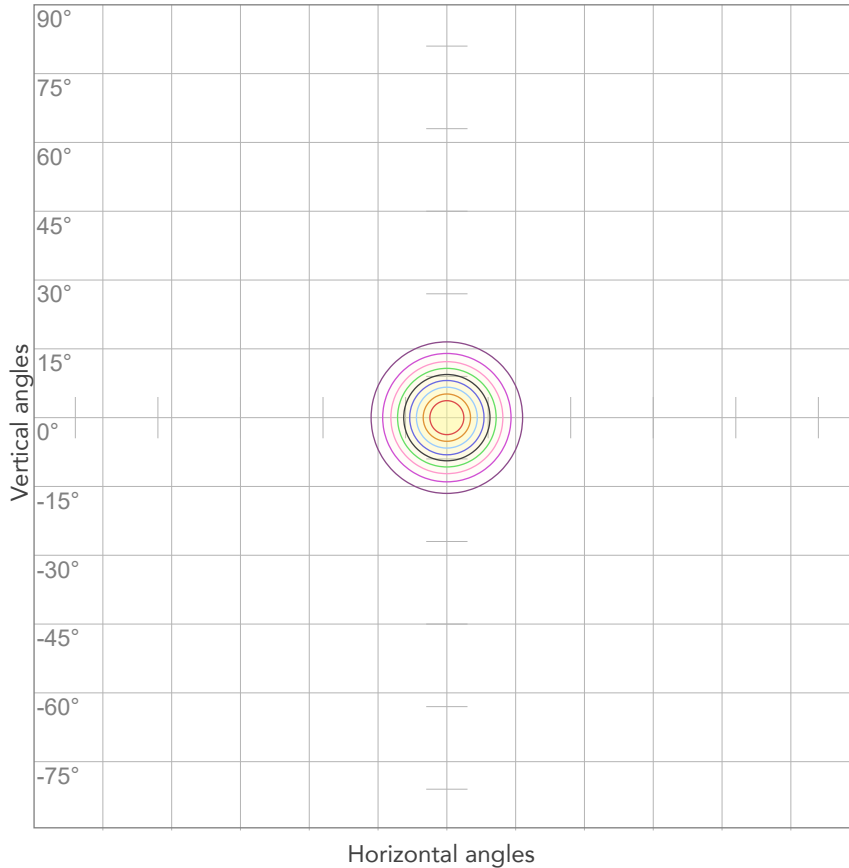


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	1,01A	218,5W	0,95	61lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



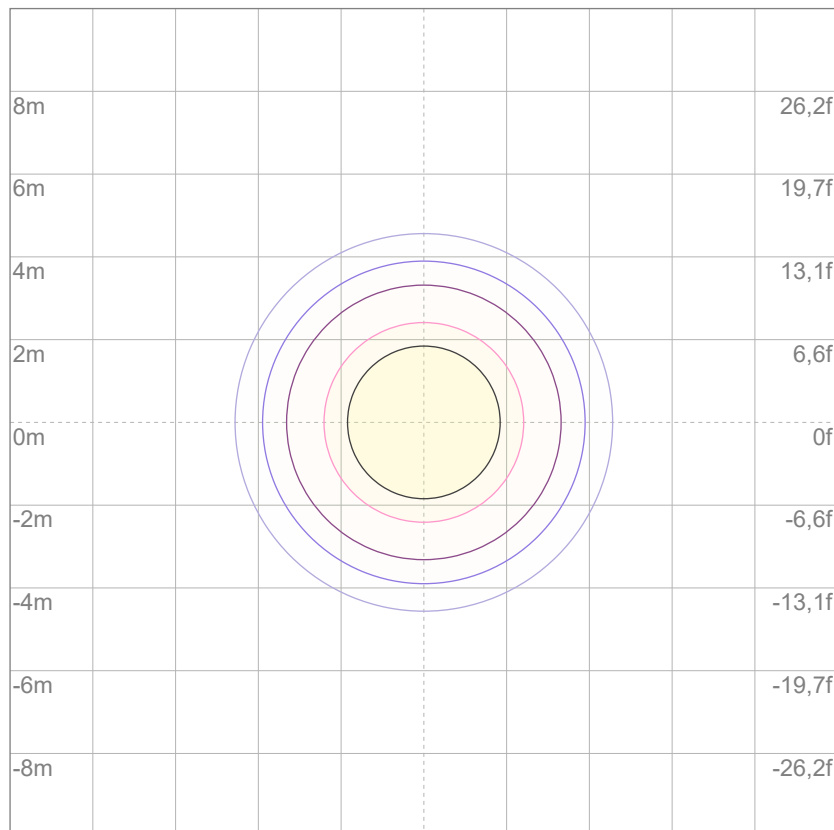
10%	8107 cd
20%	16214 cd
30%	24321 cd
40%	32428 cd
50%	40535 cd
60%	48642 cd
70%	56748 cd
80%	64855 cd

Conditions:

Number of c-planes: 2

Candela at center: 81069 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	24,3 lx
5%	40,5 lx
10%	81,1 lx
30%	243 lx
50%	405 lx

Conditions:

Number of c-planes: 2

Lux at center: 811 lx

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



Total lumen output:

13019 lm

Peak candela output:

79011 cd

Light quality:

CRI: 85,2

Color temperature:

4077 K

PRODUCT NAME:

ARCSPOTXLFC

MEASURAMENT CONDITIONS:

Beam angle:

25Deg Optic

Target:

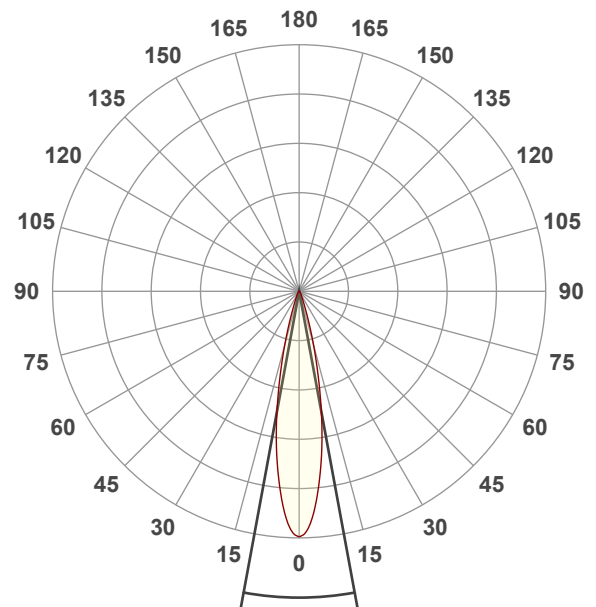
4000K

Operator:

Salvatore Giglio

Date and time:

08/11/2024 10:46:09

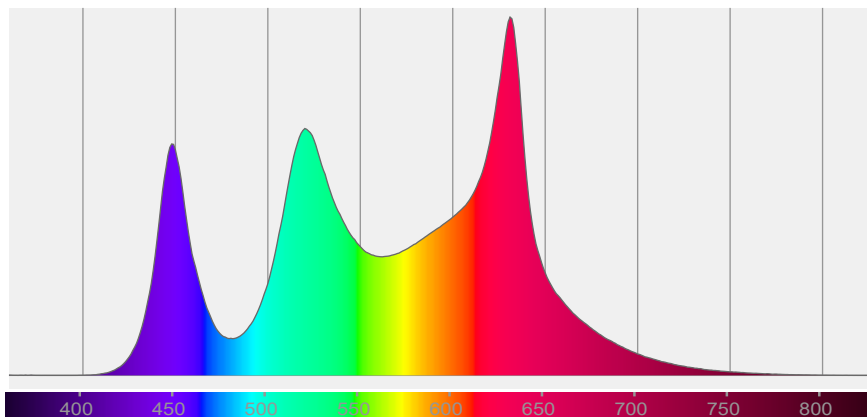


Beam angle 50%: 20,9°

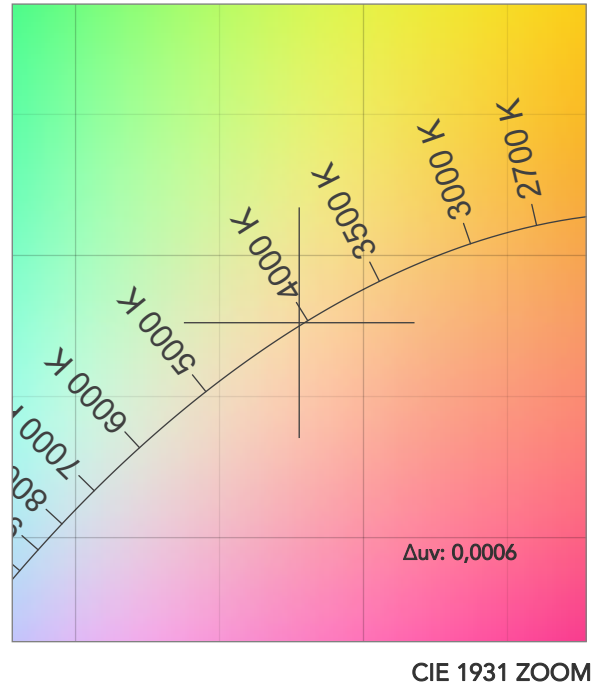
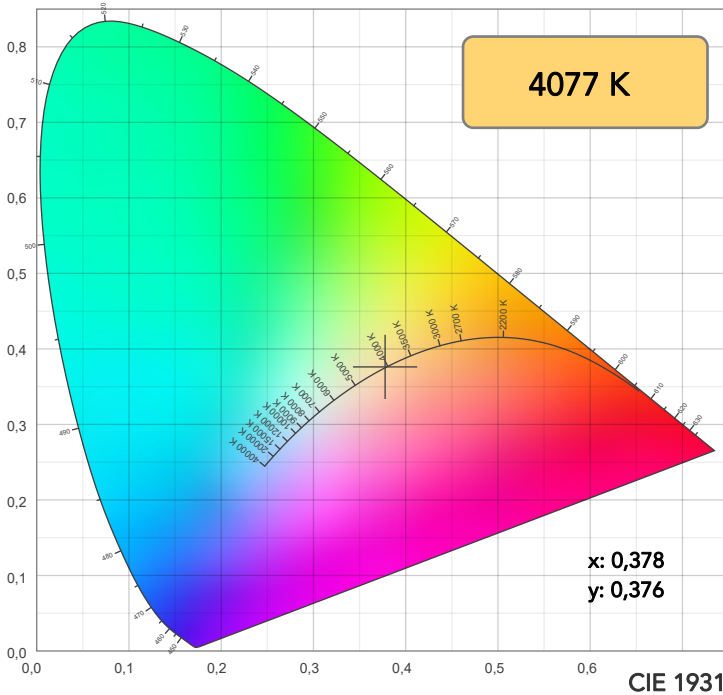
Field angle 10%: 36,9°

Cut off angle 2.5%: 52,6°

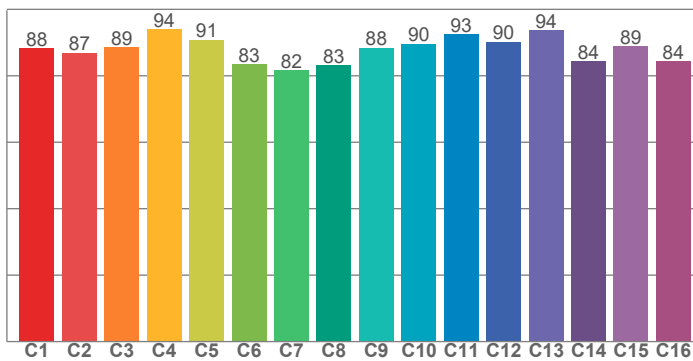
Spectra



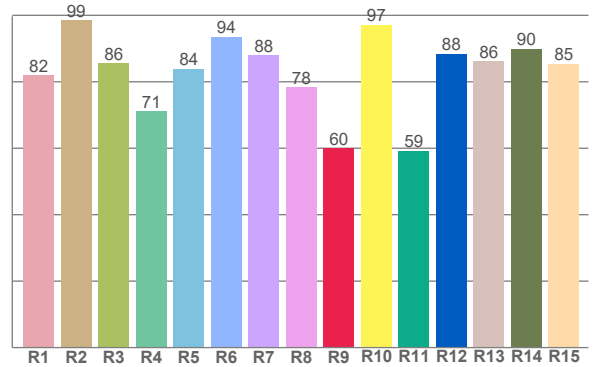
COLOR DETAILS



TM30: 88,7



CRI: 85,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82,1	98,6	85,5	71,2	84,0	93,6	88,0	78,5	60,0	97,2	59,3	88,4	86,2	90,0	85,5

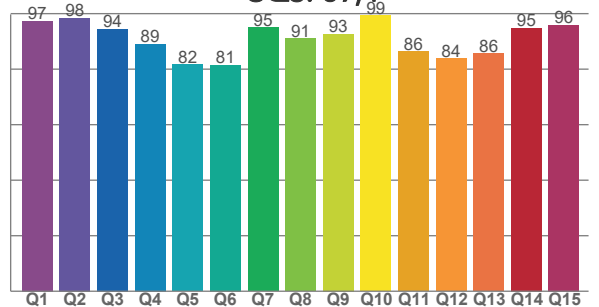
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,3	87,0	88,6	93,9	90,8	83,4	81,7	83,1	88,5	89,6	92,5	90,3	93,6	84,4	88,9	84,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	98,4	94,5	89,1	81,7	81,4	95,0	91,1	92,6	99,4	86,3	83,8	85,6	94,8	95,9

CQS: 89,4



COLOR PARAMETERS

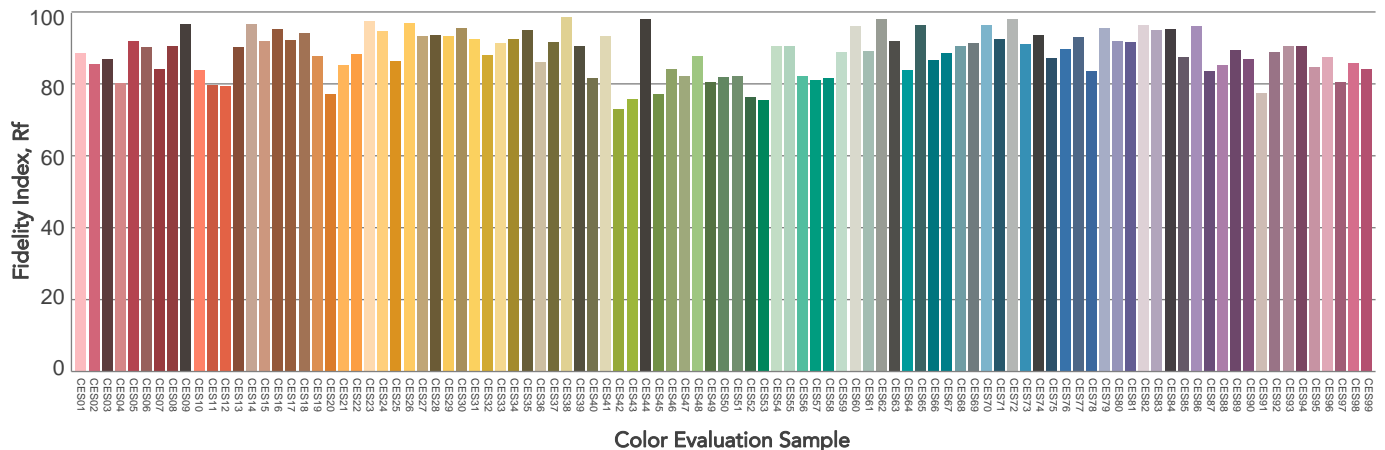
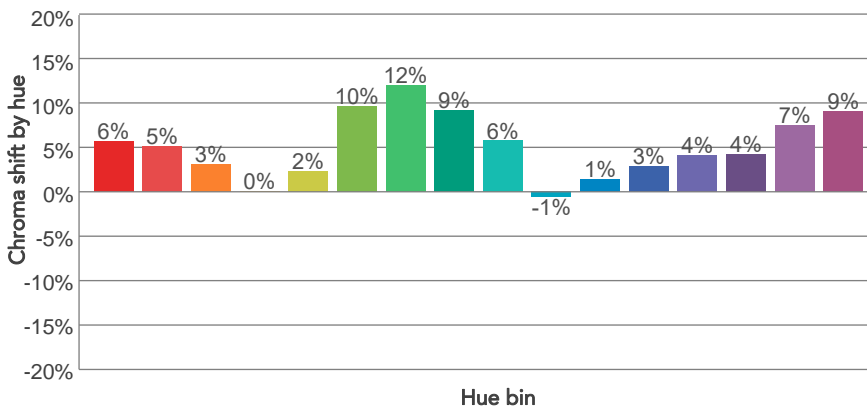
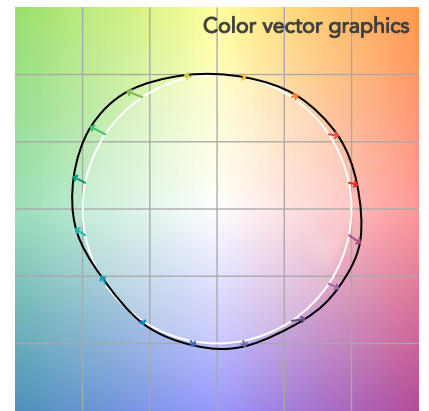
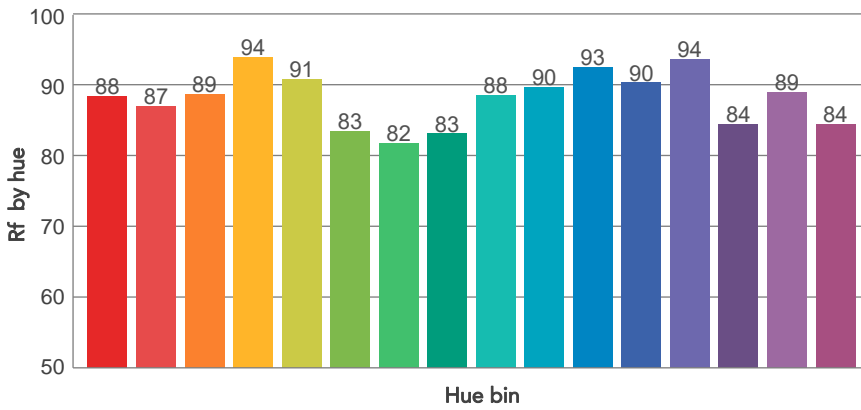
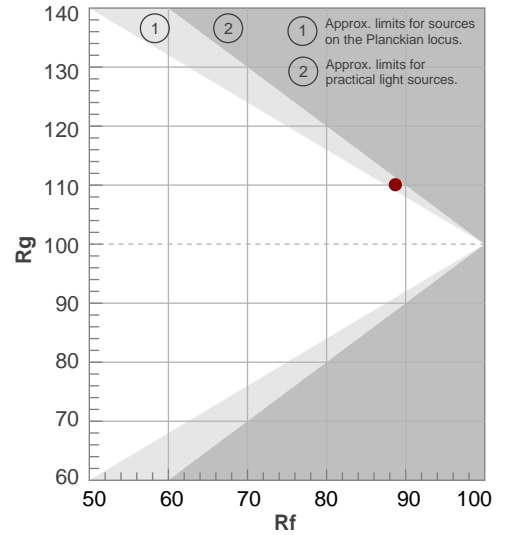
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4077 K	85,2	60,0	88,7	110,1	89,4	68	0,378	0,376	0,0006

TM30 DETAILS

Rf 88,7
Fidelity index Rf

Rg 110,1
Gammut index

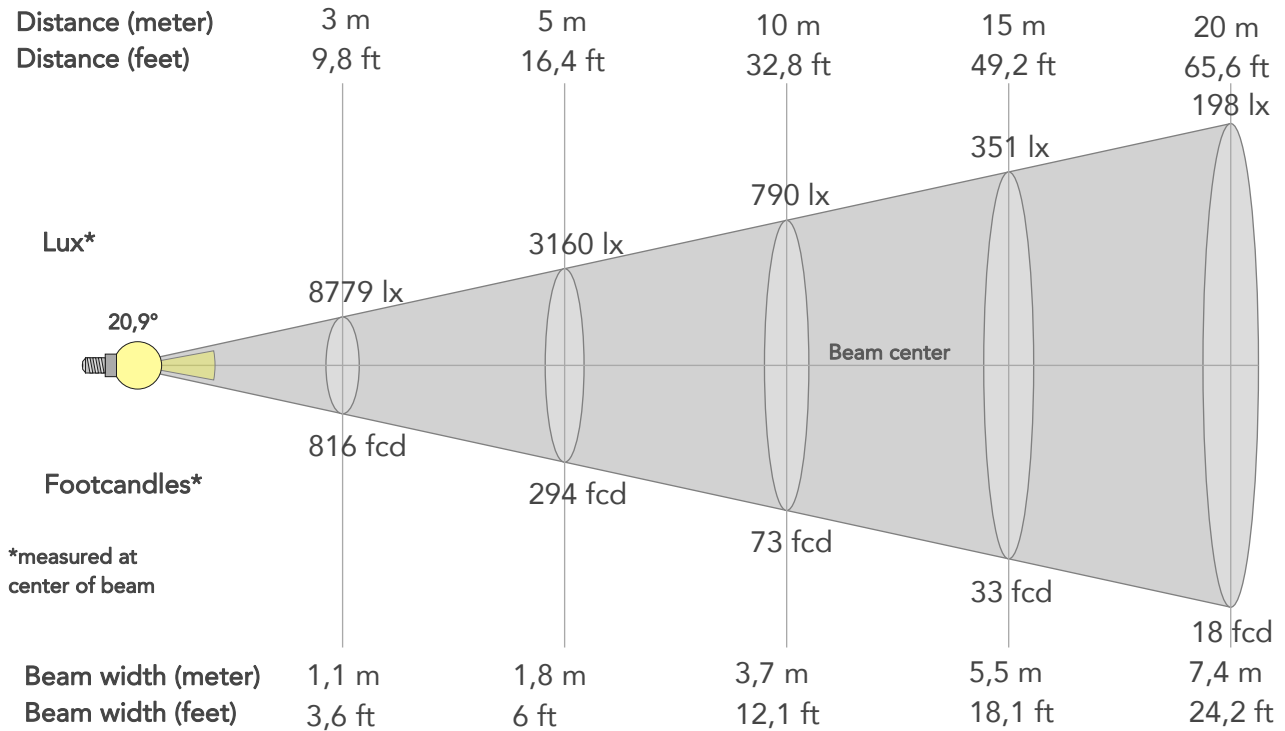
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	6%	-2%
2	87	5%	-5%
3	89	3%	-3%
4	94	0%	-1%
5	91	2%	4%
6	83	10%	7%
7	82	12%	1%
8	83	9%	-3%
9	88	6%	-6%
10	90	-1%	-6%
11	93	1%	2%
12	90	3%	3%
13	94	4%	0%
14	84	4%	8%
15	89	7%	1%
16	84	9%	-4%



BEAM DETAILS



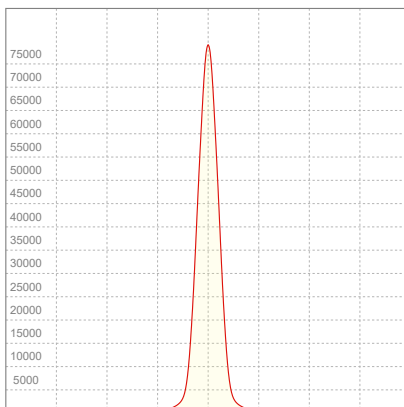
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	36,9°	52,6°	99,1%	96,2%



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	79011lx	19753lx	8779lx	4938lx	3160lx	1405lx	790lx	351lx	198lx	126lx	88lx	49lx	32lx
Footcand.	7340fcd	1835fcd	816fcd	459fcd	294fcd	130fcd	73fcd	33fcd	18fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,3ft	48,4ft	60,5ft

LINEAR DISTRIBUTION DIAGRAM

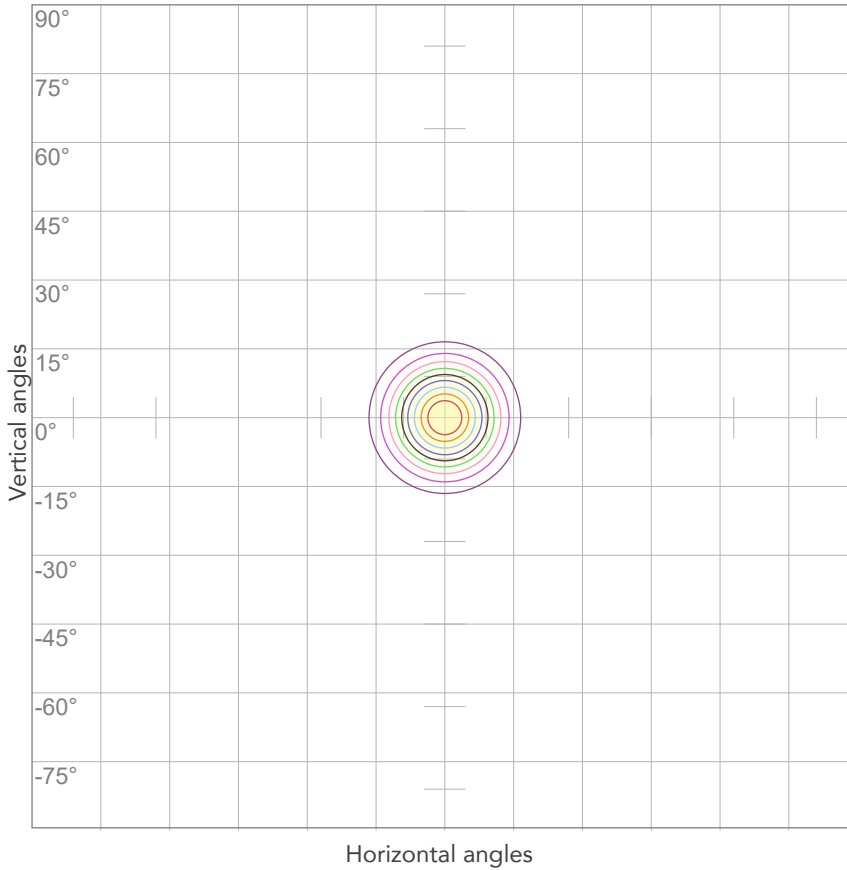


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	1,01A	216,1W	0,95	60lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



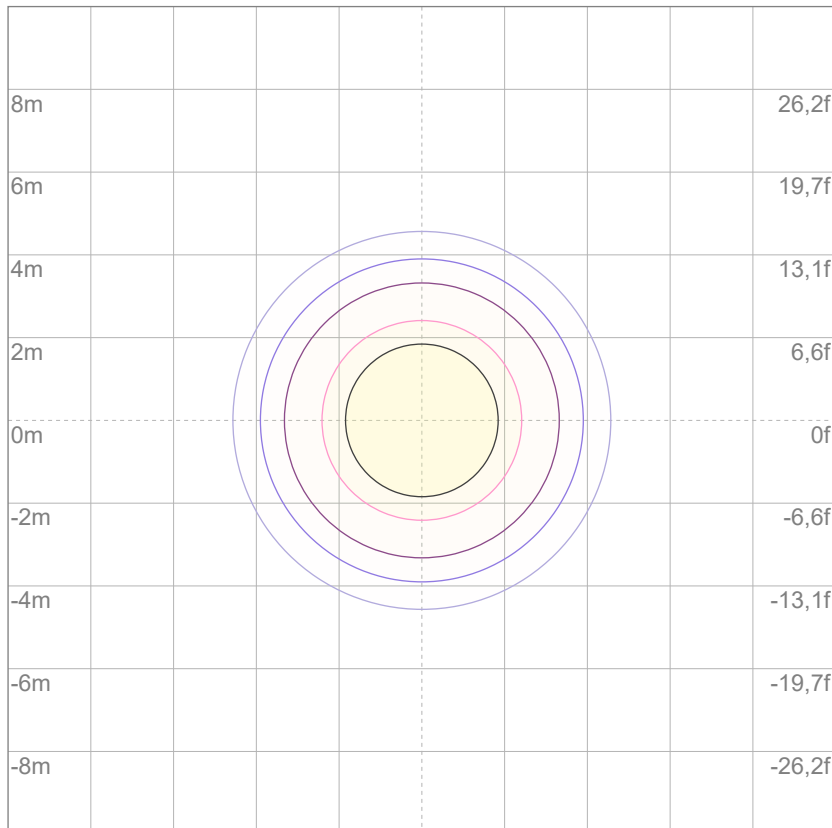
10%	7901 cd
20%	15802 cd
30%	23703 cd
40%	31604 cd
50%	39505 cd
60%	47406 cd
70%	55307 cd
80%	63208 cd

Conditions:

Number of c-planes: 2

Candela at center: 79011 cd

ISO LUX DIAGRAM



3%	23,7 lx
5%	39,5 lx
10%	79,0 lx
30%	237 lx
50%	395 lx

Conditions:

Number of c-planes: 2

Lux at center: 790 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

12979 lm

Peak candela output:

77597 cd

Light quality:

CRI: 86,7

Color temperature:

5696 K

PRODUCT NAME:

ARCSPOTXLFC

MEASURAMENT CONDITIONS:

Beam angle:

25Deg Optic

Target:

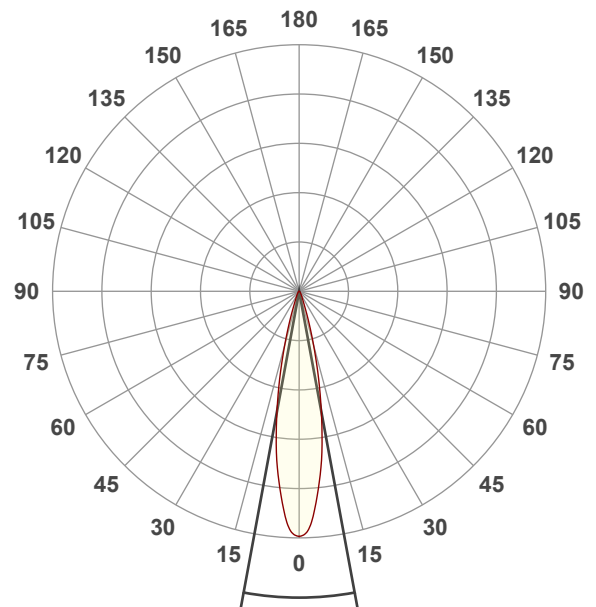
5600K

Operator:

Salvatore Giglio

Date and time:

08/11/2024 10:43:58

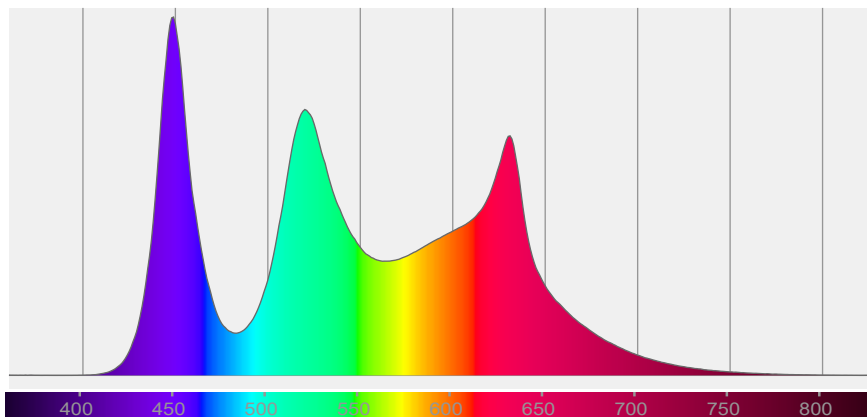


Beam angle 50%: 20,9°

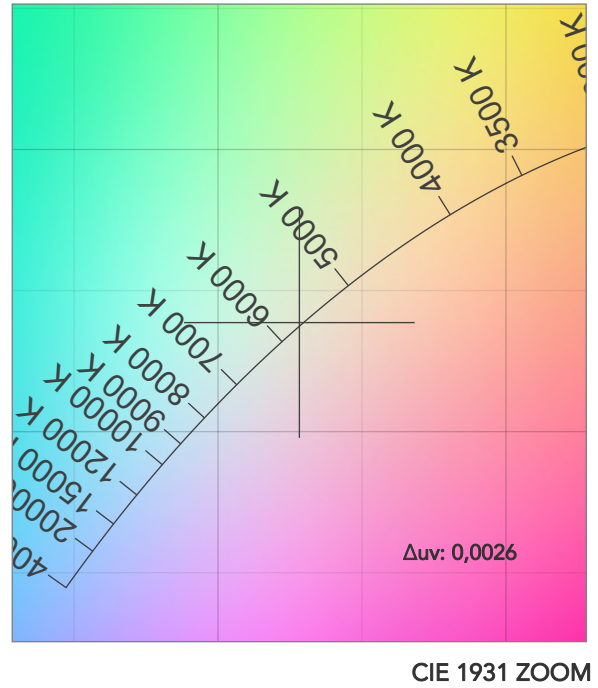
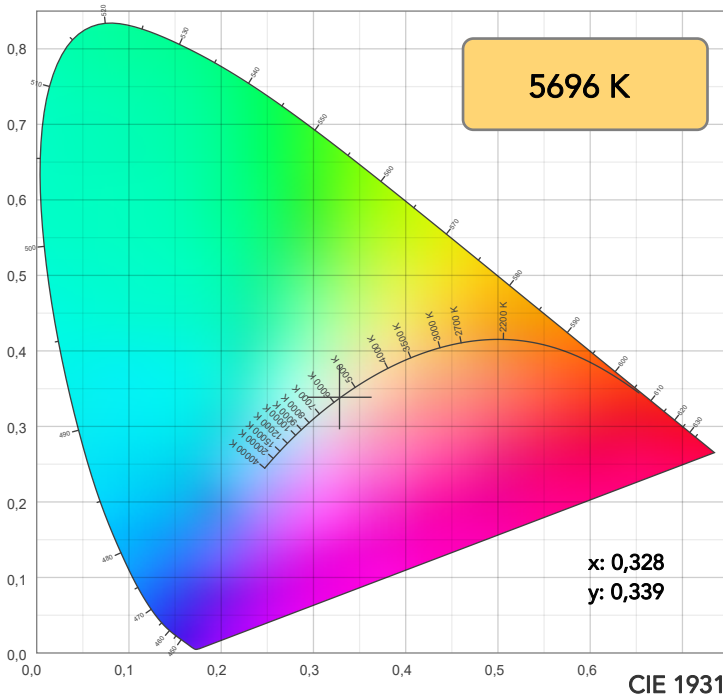
Field angle 10%: 37°

Cut off angle 2.5%: 53,1°

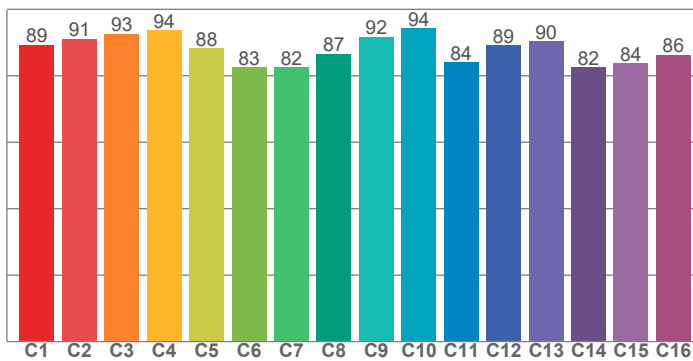
Spectra



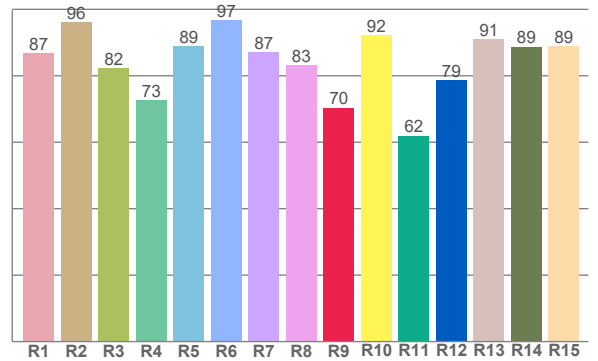
COLOR DETAILS



TM30: 88,2



CRI: 86,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
86,8	96,2	82,3	72,7	88,9	96,8	87,2	83,2	70,4	92,2	62,0	78,6	90,9	88,8	88,9

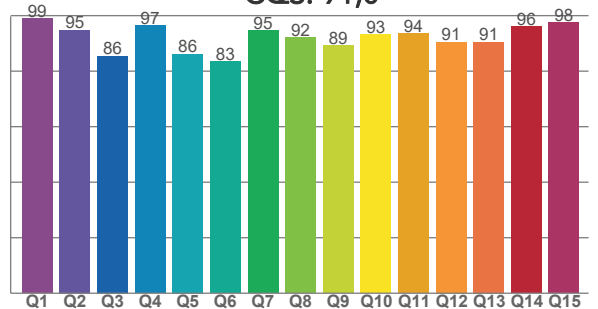
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,3	91,1	92,6	93,6	88,2	82,6	82,5	86,6	91,7	94,4	84,1	89,1	90,3	82,5	83,8	86,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	94,8	85,5	96,5	86,1	83,4	94,7	92,1	89,3	93,2	93,5	90,6	90,6	96,0	97,5

CQS: 91,0



COLOR PARAMETERS

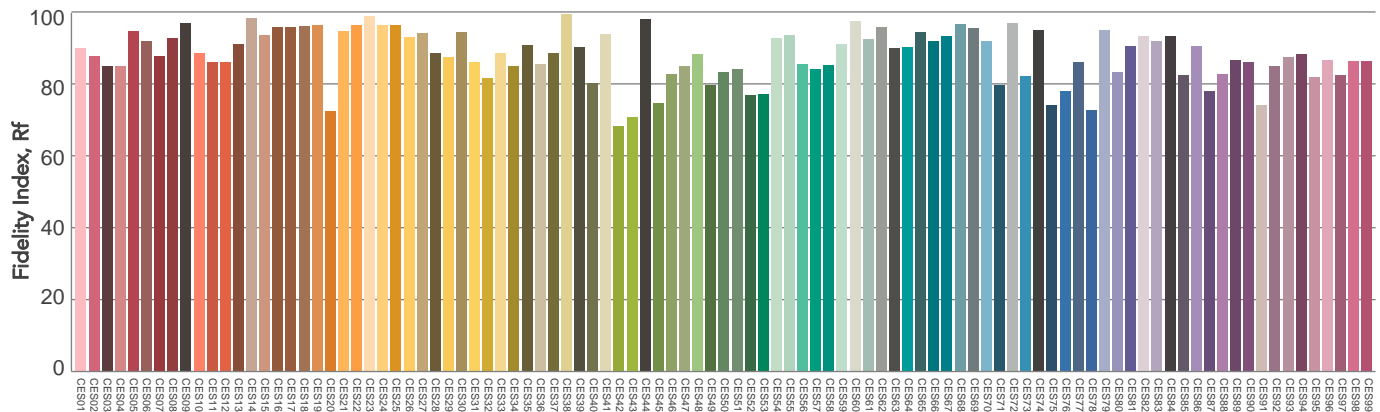
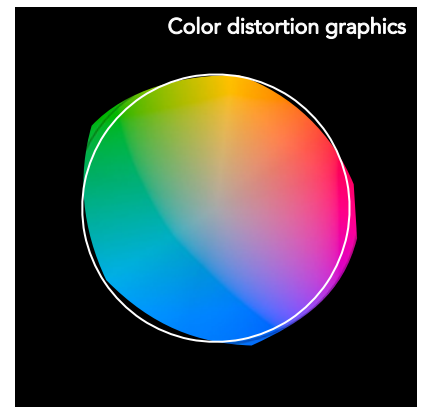
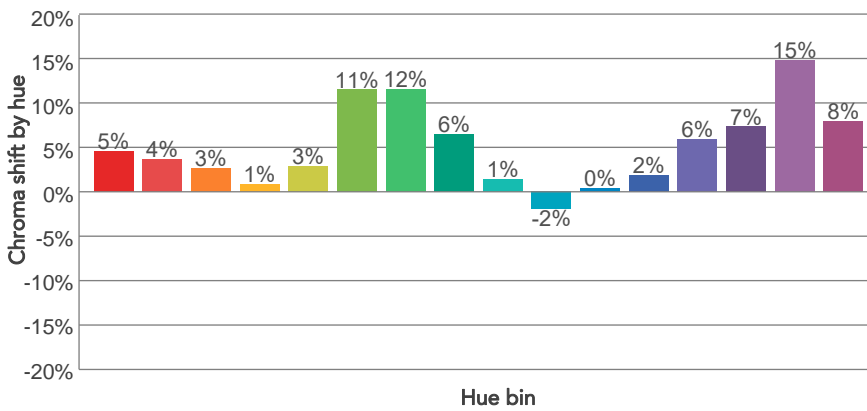
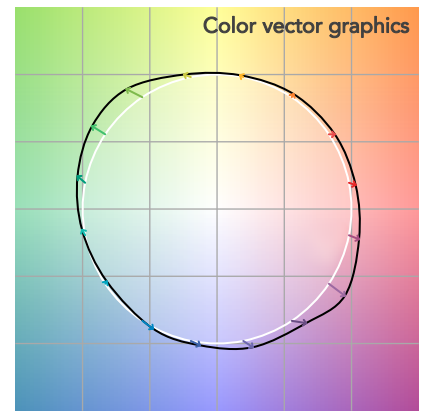
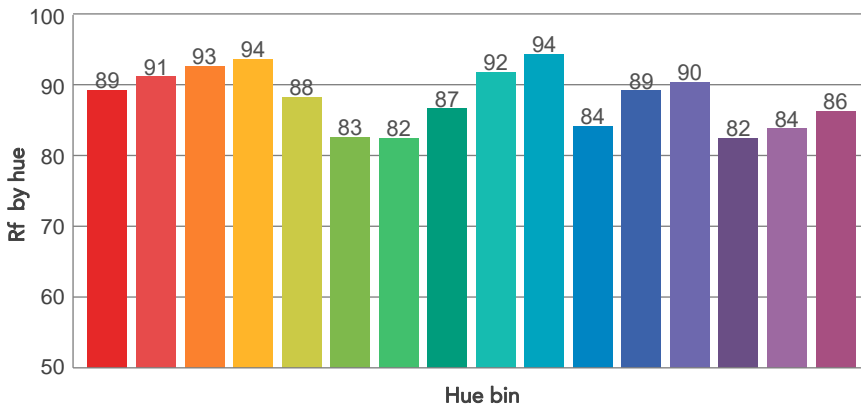
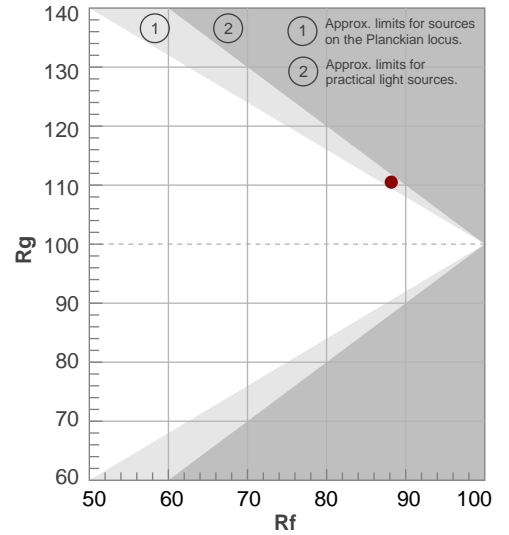
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5696 K	86,7	70,4	88,2	110,5	91,0	77	0,328	0,339	0,0026

TM30 DETAILS

Rf 88,2
Fidelity index Rf

Rg 110,5
Gammut index

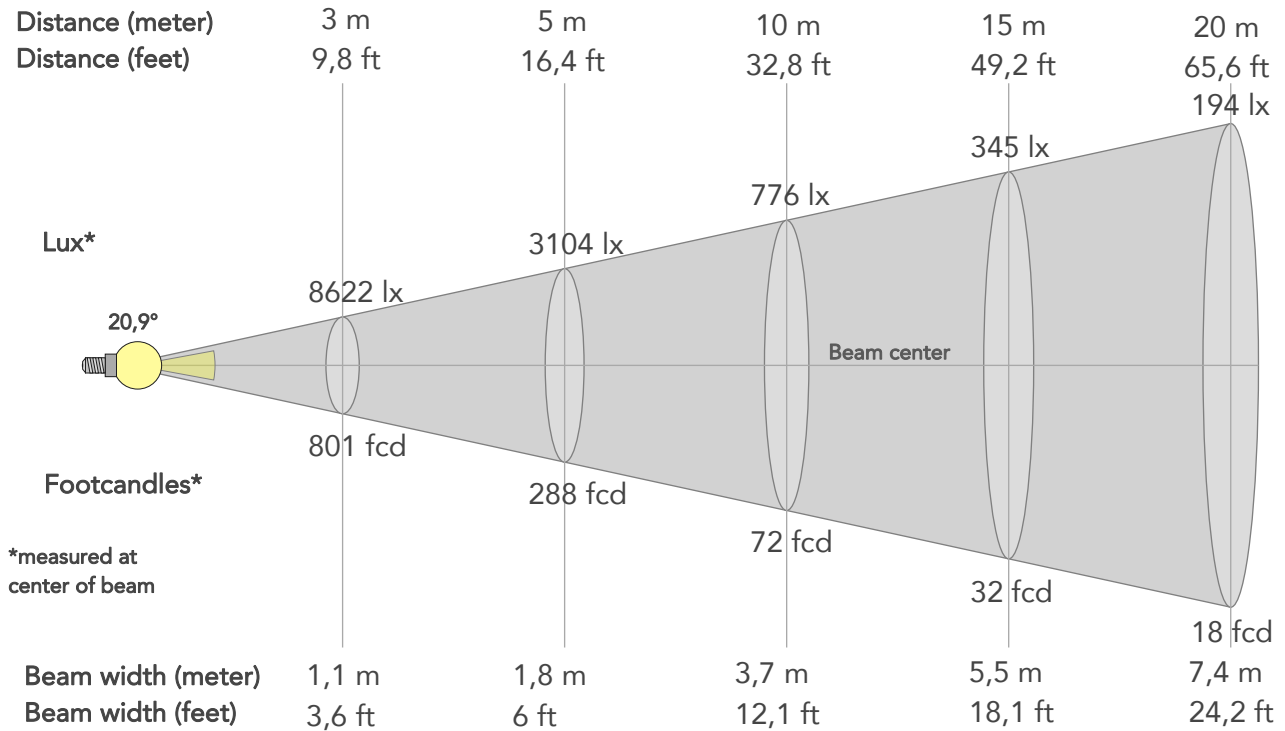
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	5%	-3%
2	91	4%	-2%
3	93	3%	0%
4	94	1%	3%
5	88	3%	5%
6	83	11%	6%
7	82	12%	0%
8	87	6%	-4%
9	92	1%	-4%
10	94	-2%	-1%
11	84	0%	10%
12	89	2%	7%
13	90	6%	6%
14	82	7%	8%
15	84	15%	-1%
16	86	8%	-1%



BEAM DETAILS



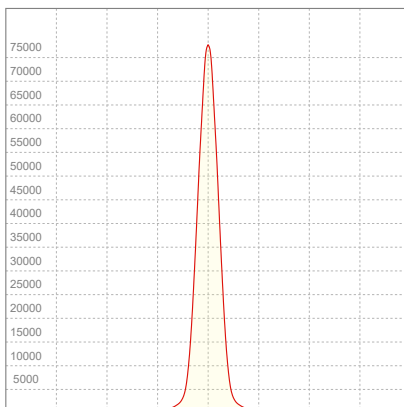
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	37°	53,1°	98,8%	95,6%



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	77597lx	19399lx	8622lx	4850lx	3104lx	1380lx	776lx	345lx	194lx	124lx	86lx	48lx	31lx
Footcand.	7209fcd	1802fcd	801fcd	451fcd	288fcd	128fcd	72fcd	32fcd	18fcd	12fcd	8fcd	5fcd	3fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,7m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,3ft	48,4ft	60,5ft

LINEAR DISTRIBUTION DIAGRAM

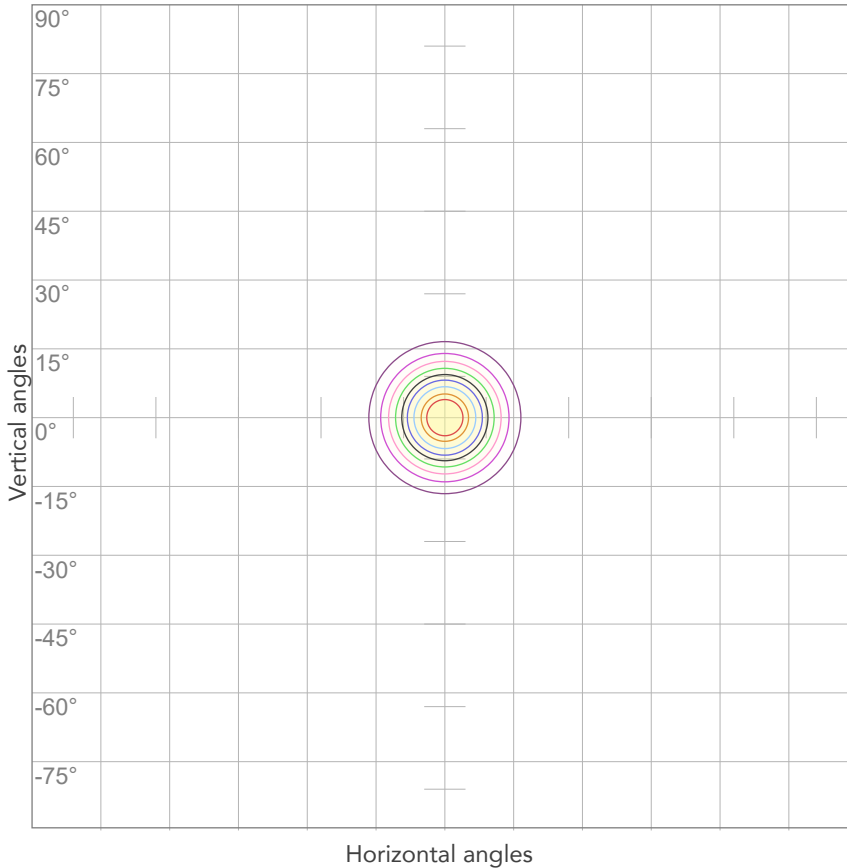


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,12A	210,3W	0,83	62lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



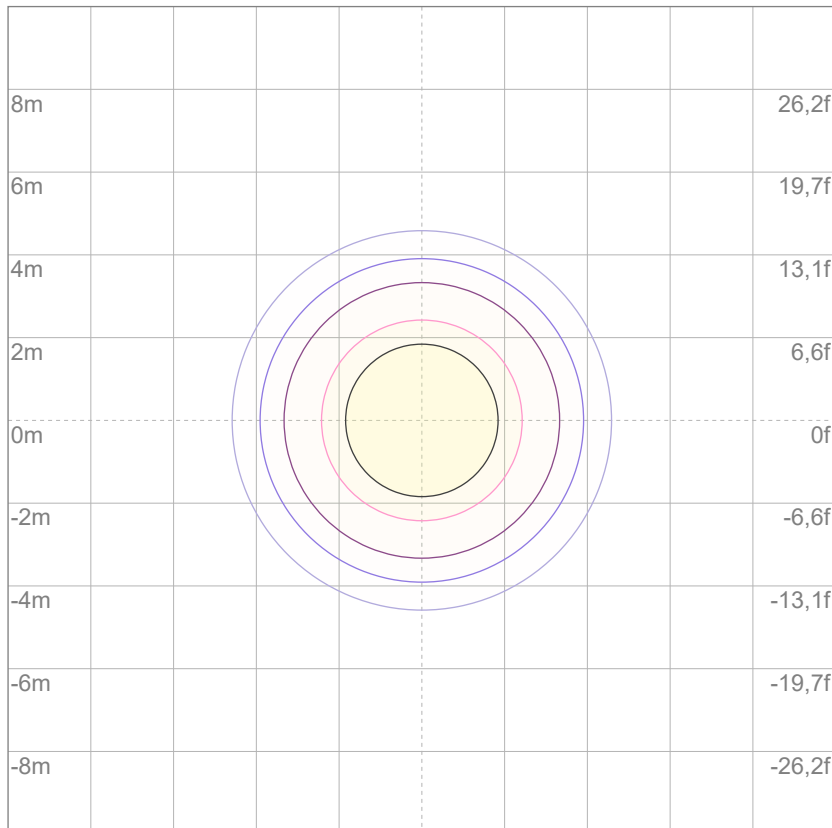
10%	7760 cd
20%	15519 cd
30%	23279 cd
40%	31039 cd
50%	38799 cd
60%	46558 cd
70%	54318 cd
80%	62078 cd

Conditions:

Number of c-planes: 2

Candela at center: 77597 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	23,3 lx
5%	38,8 lx
10%	77,6 lx
30%	233 lx
50%	388 lx

Conditions:

Number of c-planes: 2

Lux at center: 776 lx

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



Total lumen output:

12878 lm

Peak candela output:

76268 cd

Light quality:

CRI: 87,2

Color temperature:

6015 K

PRODUCT NAME:

ARCSPOTXLFC

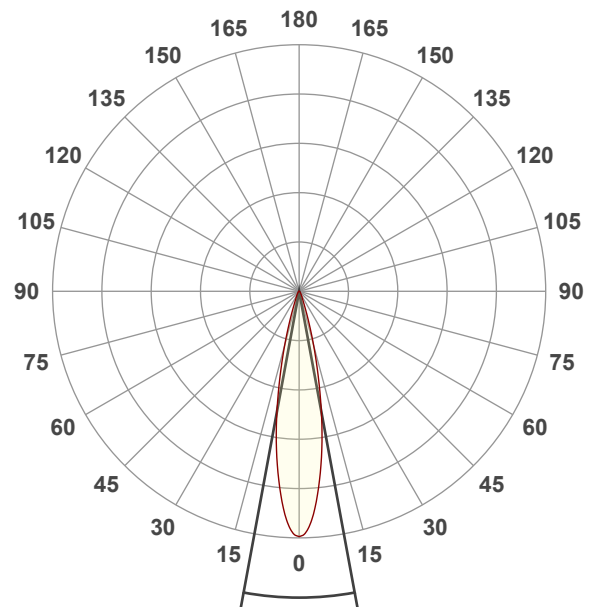
MEASURAMENT CONDITIONS:

Beam angle:
25Deg Optic

Target:
6000K

Operator:
Salvatore Giglio

Date and time:
08/11/2024 11:01:09

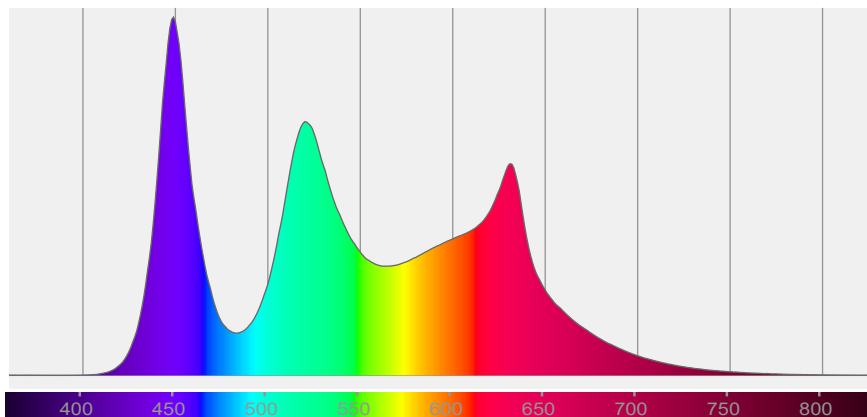


Beam angle 50%: 20,9°

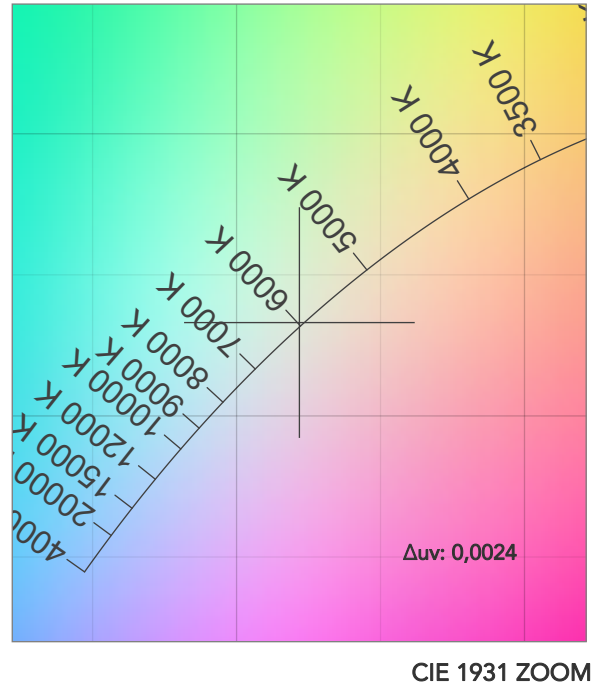
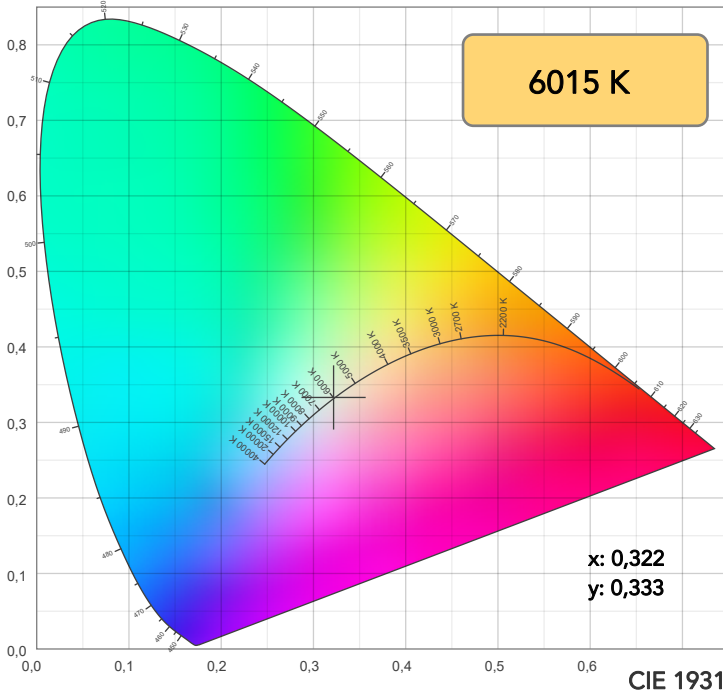
Field angle 10%: 37°

Cut off angle 2.5%: 53,4°

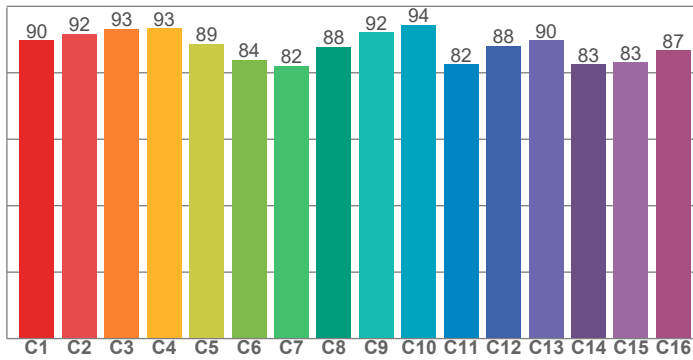
Spectra



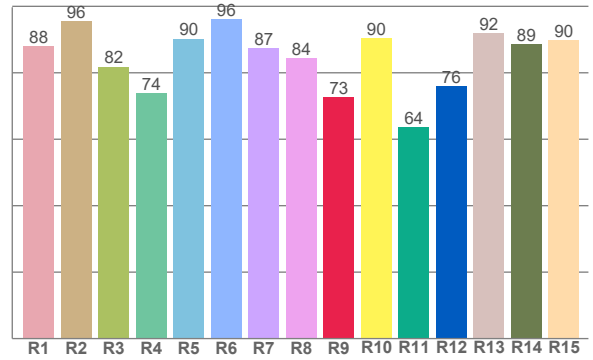
COLOR DETAILS



TM30: 88,3



CRI: 87,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
88,0	95,5	81,9	74,0	90,3	96,0	87,5	84,3	72,7	90,3	63,6	75,9	92,0	88,6	89,9

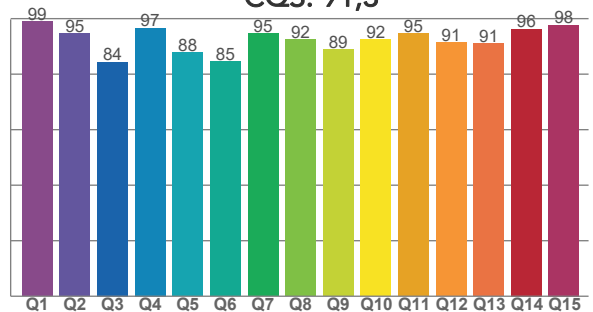
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,8	91,8	93,3	93,4	88,8	83,9	82,1	87,8	92,2	94,4	82,5	88,2	89,8	82,6	83,1	86,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	94,7	84,4	96,7	87,8	84,5	94,7	92,4	88,9	92,4	94,6	91,5	91,1	96,3	97,7

CQS: 91,3



COLOR PARAMETERS

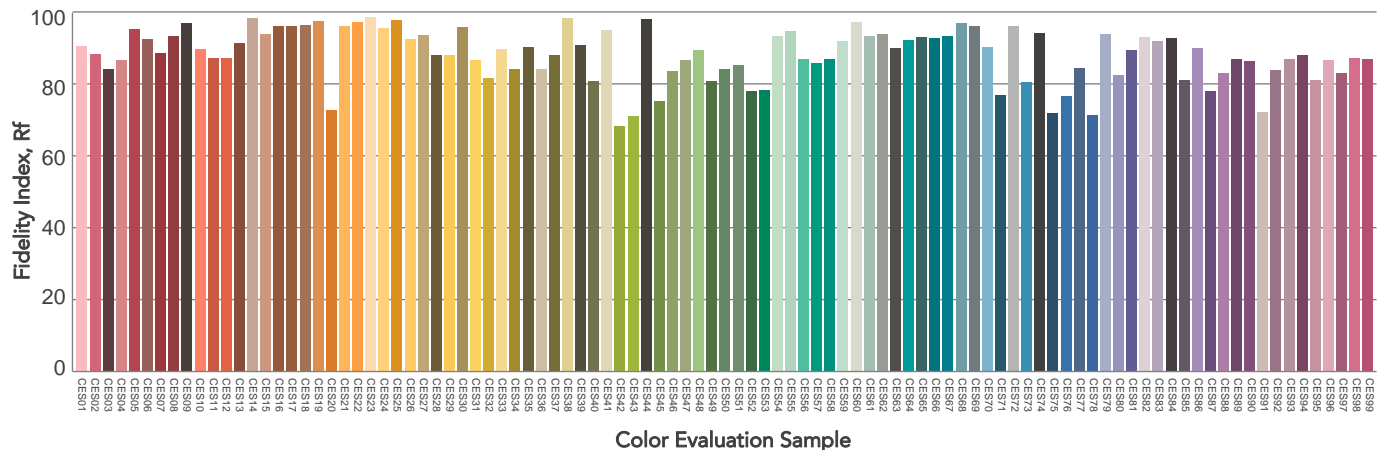
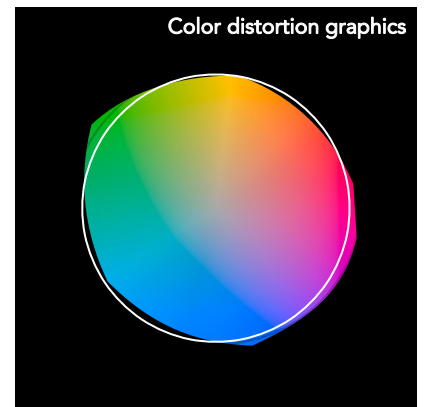
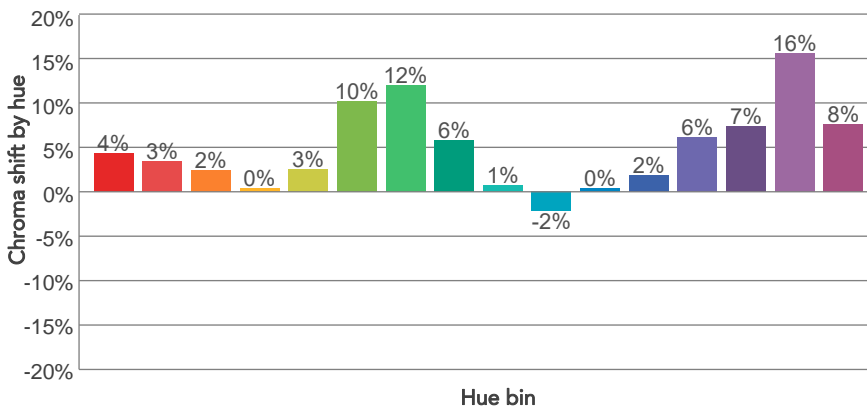
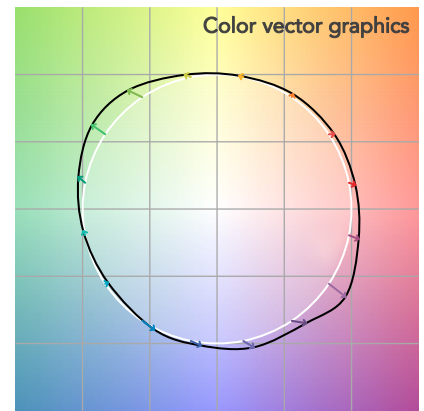
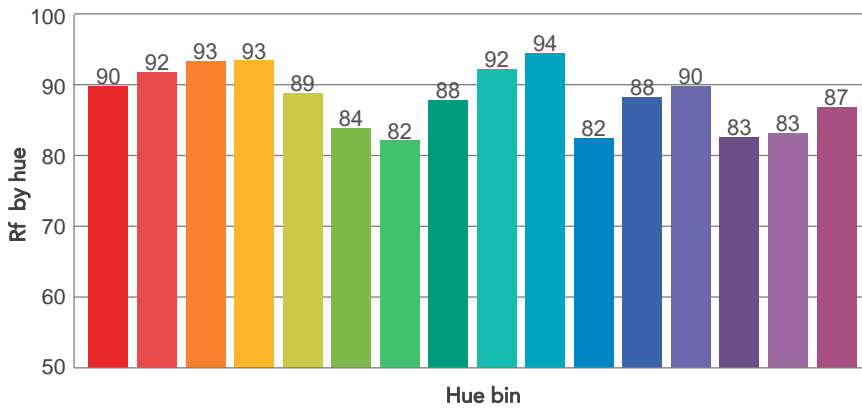
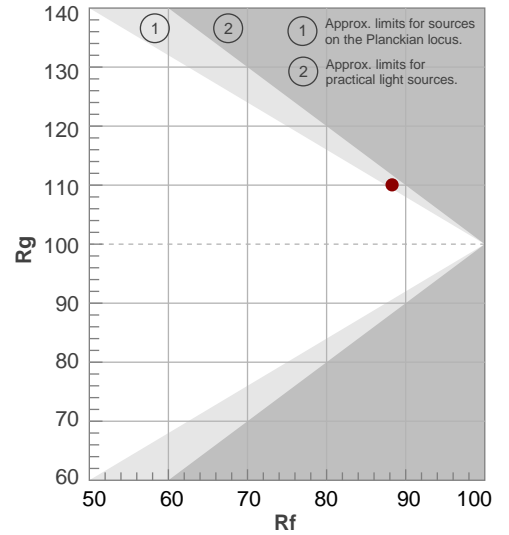
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6015 K	87,2	72,7	88,3	110,0	91,3	79	0,322	0,333	0,0024

TM30 DETAILS

Rf 88,3
Fidelity index Rf

Rg 110,0
Gammut index

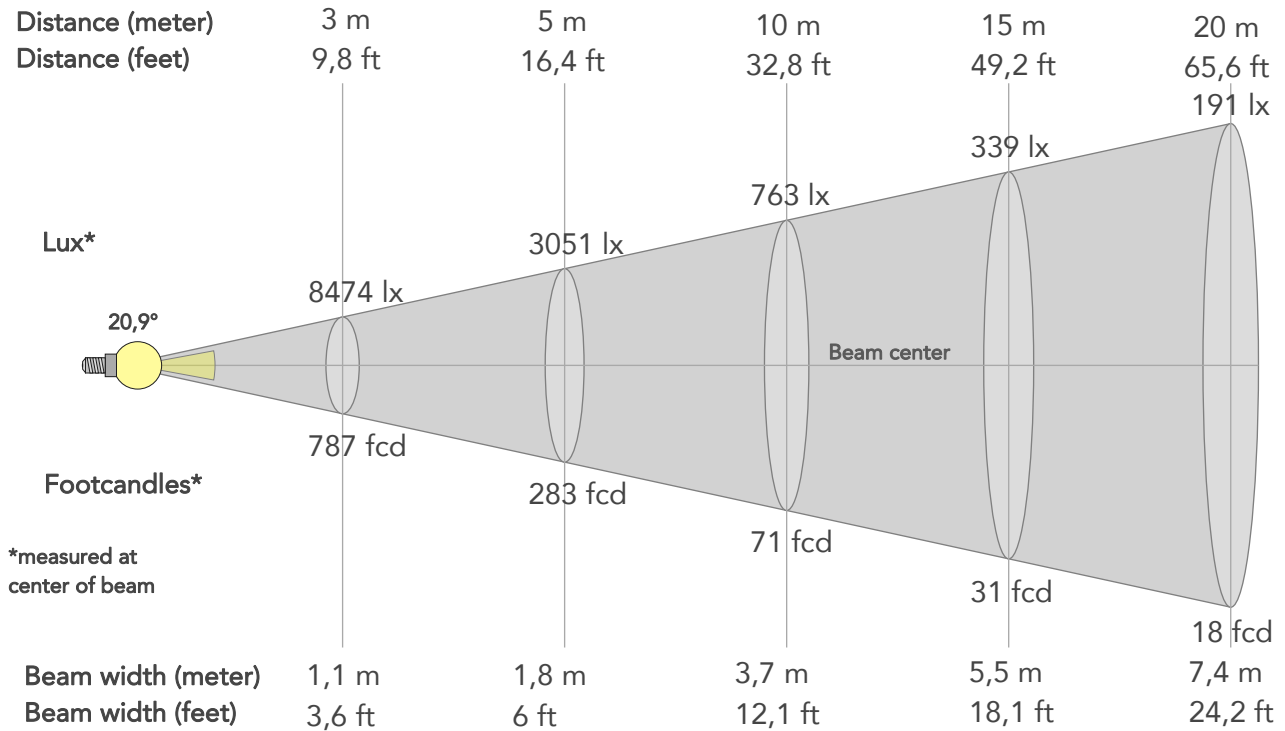
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	4%	-2%
2	92	3%	-2%
3	93	2%	1%
4	93	0%	3%
5	89	3%	4%
6	84	10%	6%
7	82	12%	0%
8	88	6%	-3%
9	92	1%	-3%
10	94	-2%	0%
11	82	0%	11%
12	88	2%	8%
13	90	6%	7%
14	83	7%	8%
15	83	16%	-1%
16	87	8%	-1%



BEAM DETAILS



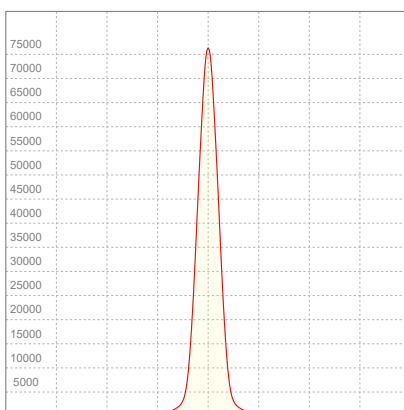
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,9°	37°	53,4°	98,3%	94,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	76268lx	19067lx	8474lx	4767lx	3051lx	1356lx	763lx	339lx	191lx	122lx	85lx	48lx	31lx
Footcand.	7086fcd	1771fcd	787fcd	443fcd	283fcd	126fcd	71fcd	31fcd	18fcd	11fcd	8fcd	4fcd	3fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,8m	3,7m	5,5m	7,4m	9,2m	11,1m	14,8m	18,4m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9,1ft	12,1ft	18,1ft	24,2ft	30,2ft	36,3ft	48,4ft	60,5ft

LINEAR DISTRIBUTION DIAGRAM

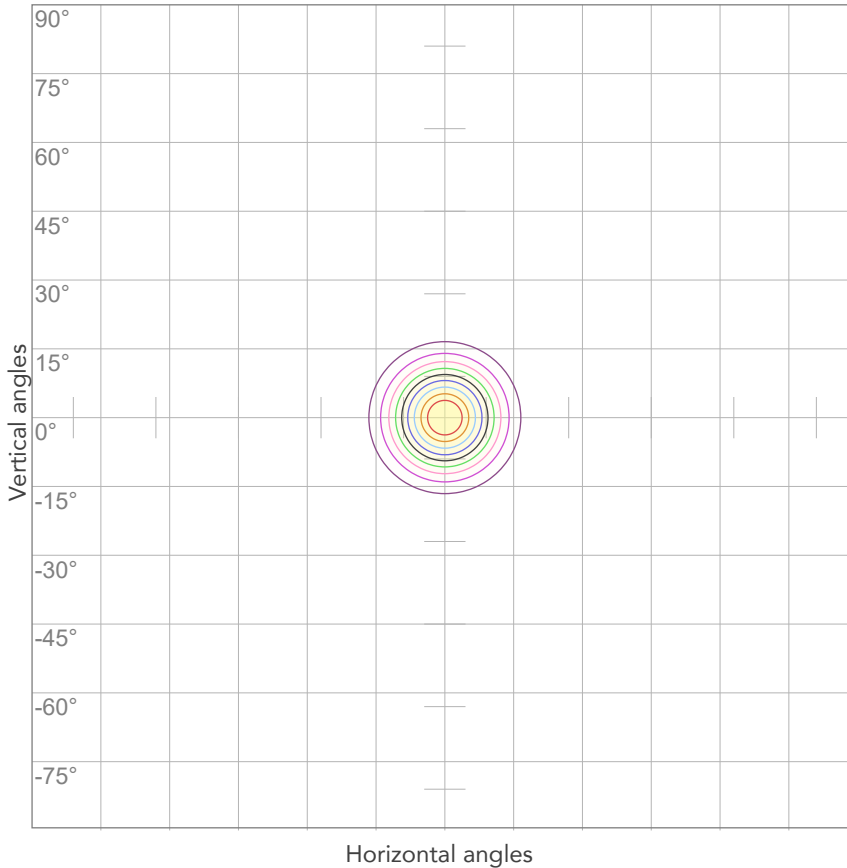


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
225V	1,11A	214,8W	0,86	60lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



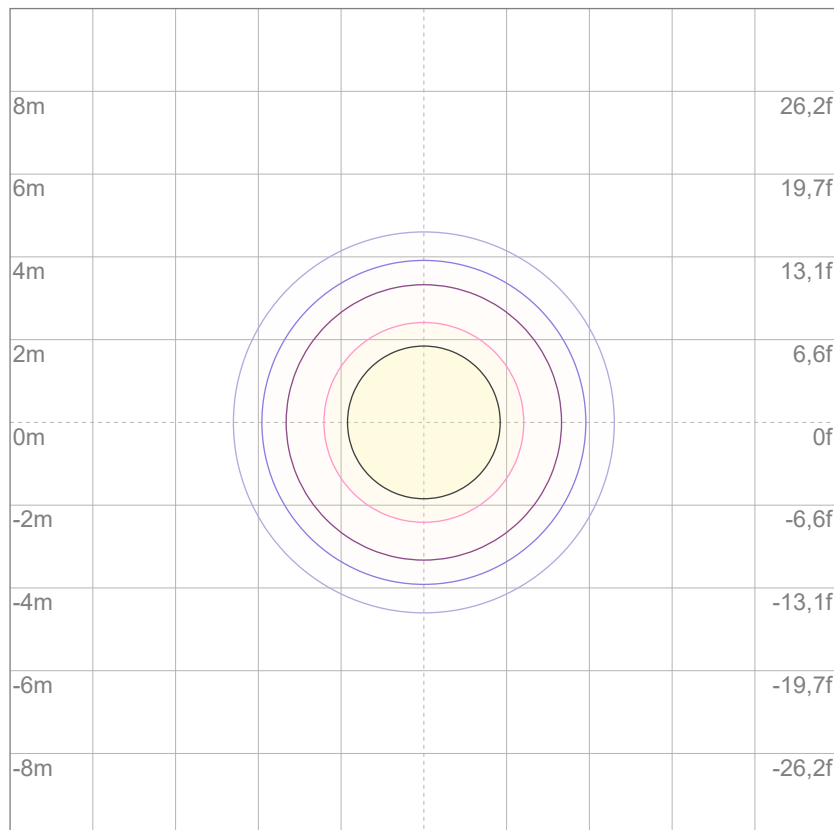
10%	7627 cd
20%	15254 cd
30%	22880 cd
40%	30507 cd
50%	38134 cd
60%	45761 cd
70%	53388 cd
80%	61015 cd

Conditions:

Number of c-planes: 2

Candela at center: 76268 cd

ISO LUX DIAGRAM



3%	22,9 lx
5%	38,1 lx
10%	76,3 lx
30%	229 lx
50%	381 lx

Conditions:

Number of c-planes: 2

Lux at center: 763 lx

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