



# Photometric Test Report



## JETSPOT4Z

180W moving spot with  
zoom and CMY

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## TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 25°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

### Prolights measurement instrument

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

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

### Prolights measurement software

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

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-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:

6566 lm

Peak candela output:

24358 cd

Light quality:

CRI: 67,5

Color temperature:

6330 K

PRODUCT NAME:

JETSPOT4Z

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

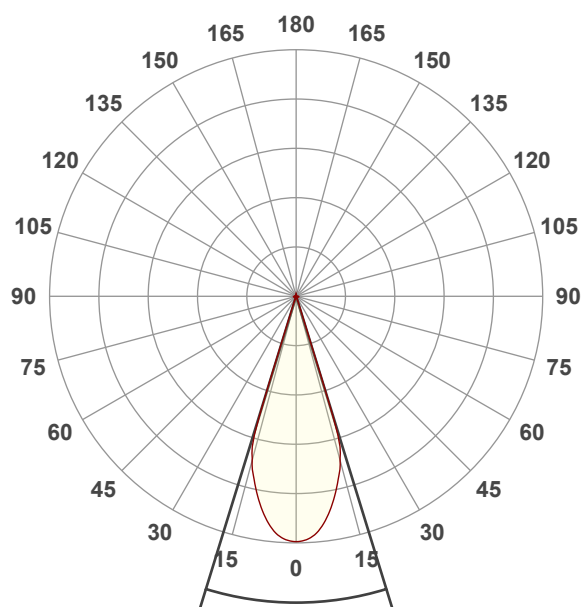
Full On

Operator:

Salvatore Giglio

Date and time:

16/01/2023 13:30:54

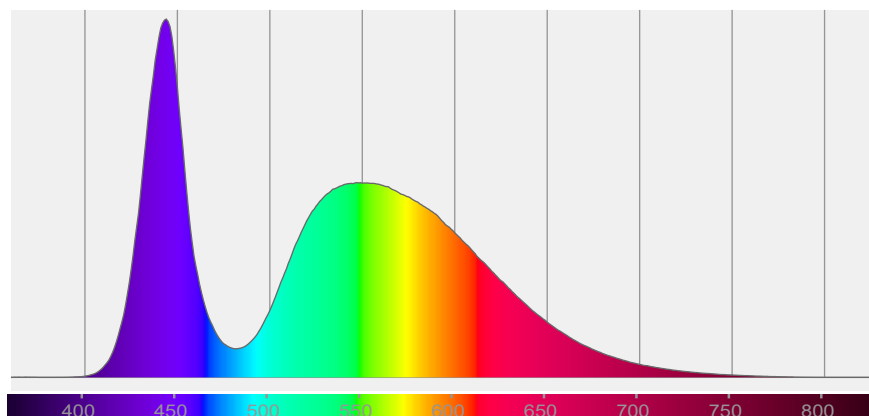


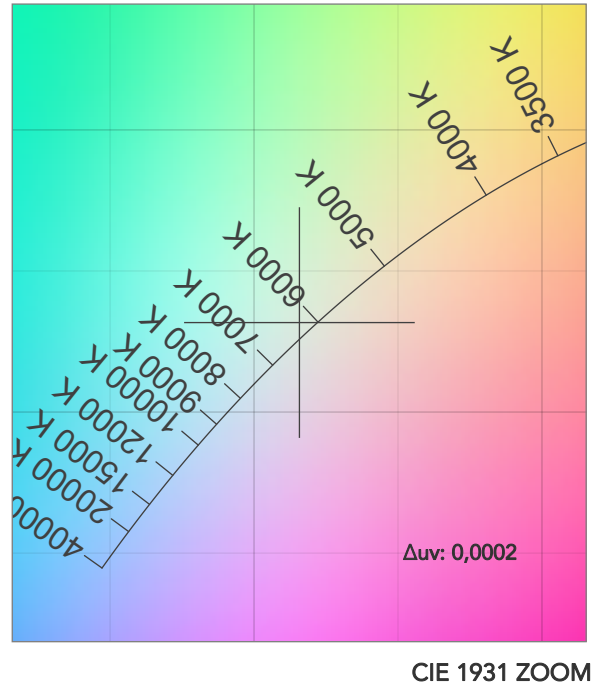
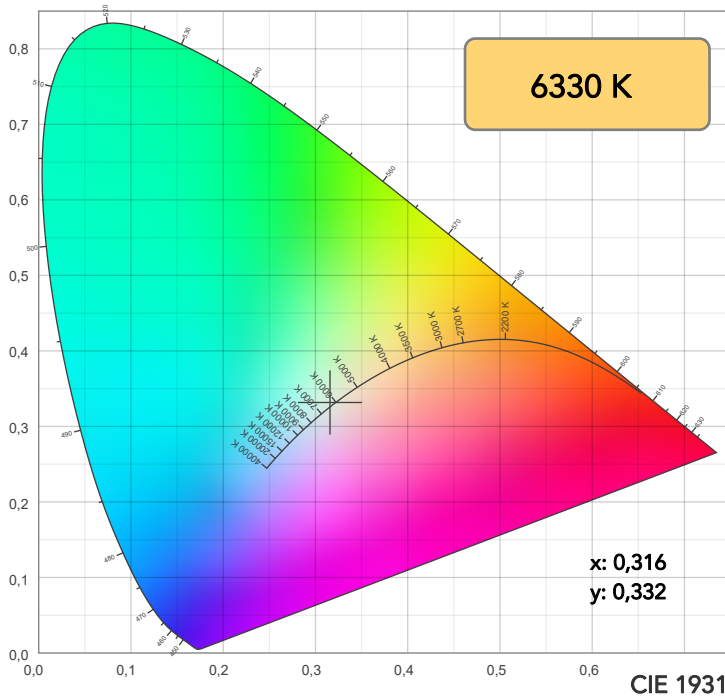
Beam angle 50%: 34,3°

Field angle 10%: 37,4°

Cut off angle 2.5%: 39,7°

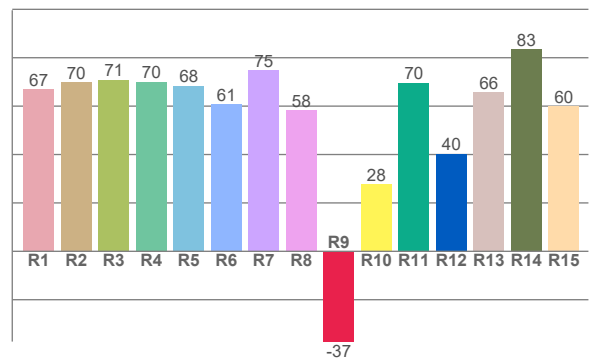
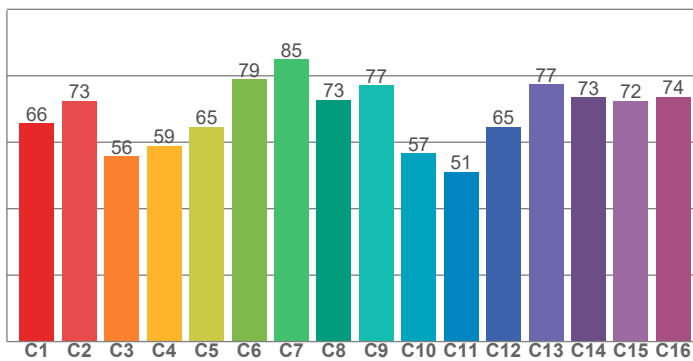
Spectra





TM30: 68,0

CRI: 67,5 (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
66,9	69,8	70,9	70,1	68,4	60,9	75,0	58,3	-37,3	27,8	69,6	40,3	65,9	83,4	59,9

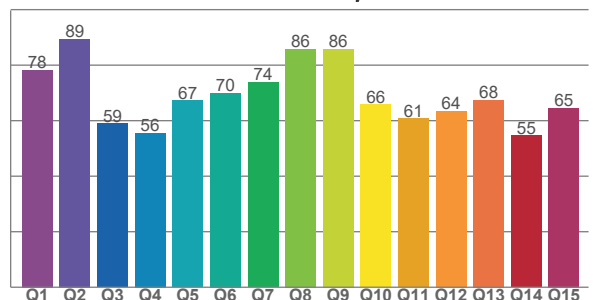
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65,7	72,5	55,8	59,0	64,7	78,9	85,0	72,7	77,1	56,6	51,0	64,6	77,4	73,5	72,5	73,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,2	89,4	59,0	55,5	67,2	70,0	73,8	85,8	85,8	65,8	60,8	63,6	67,5	54,6	64,6

CQS: 67,6



## COLOR PARAMETERS

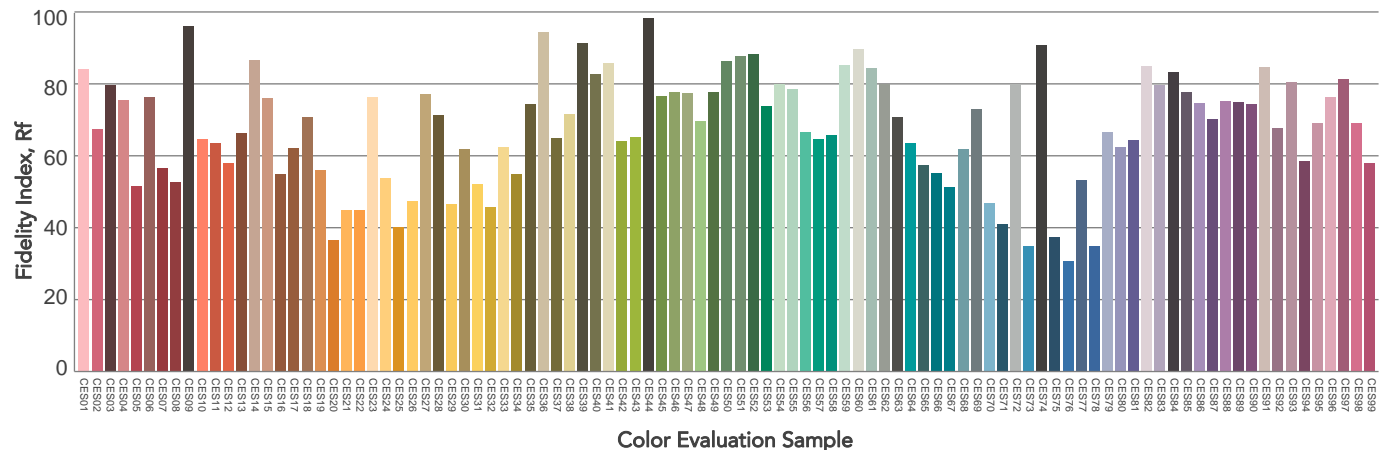
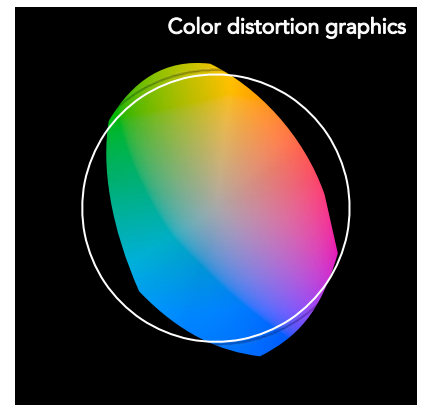
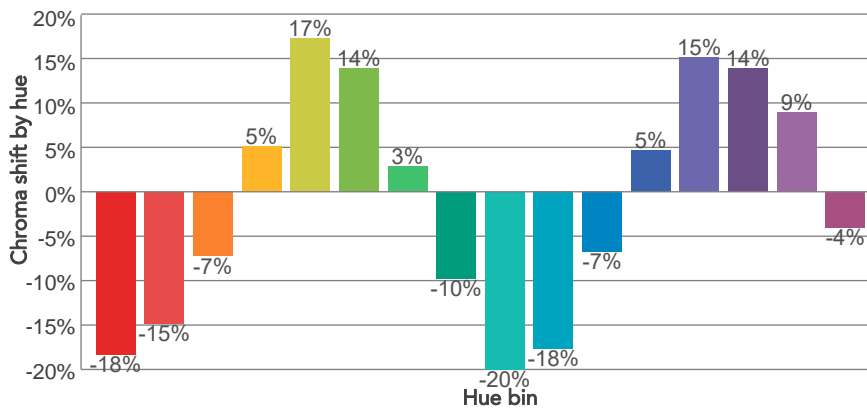
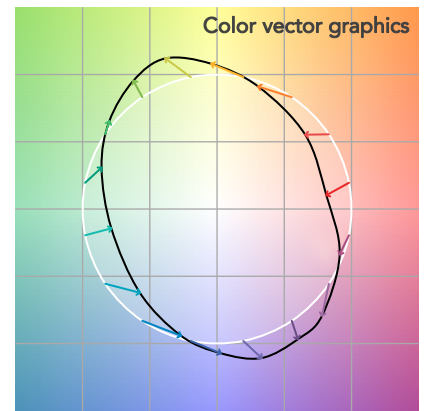
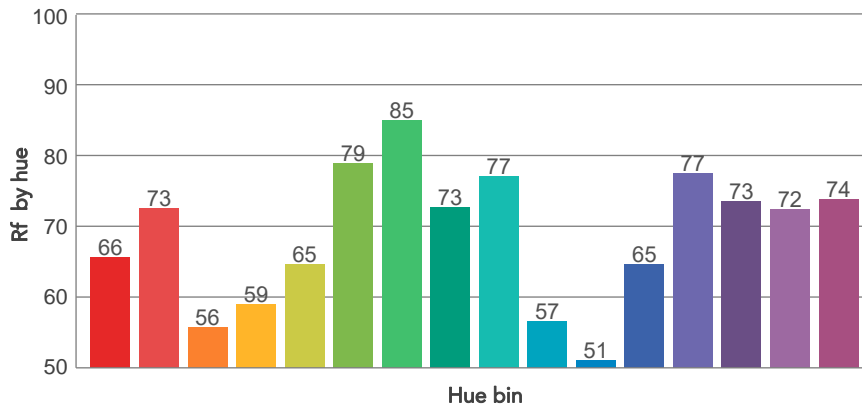
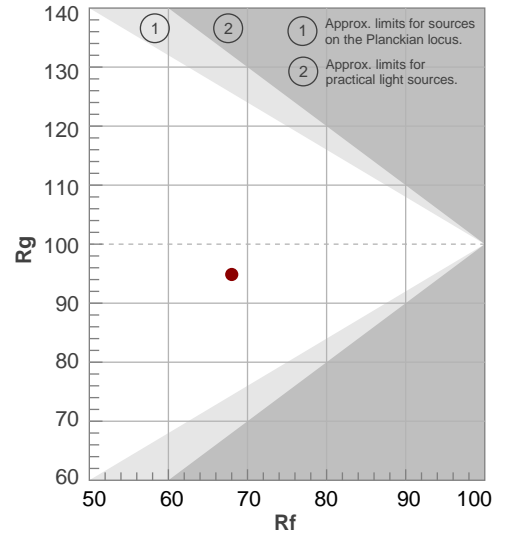
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6330 K	67,5	-37,3	68,0	94,9	67,6	44	0,316	0,332	0,0002

# TM30 DETAILS

**Rf 68,0**  
Fidelity index Rf

**Rg 94,9**  
Gammut index

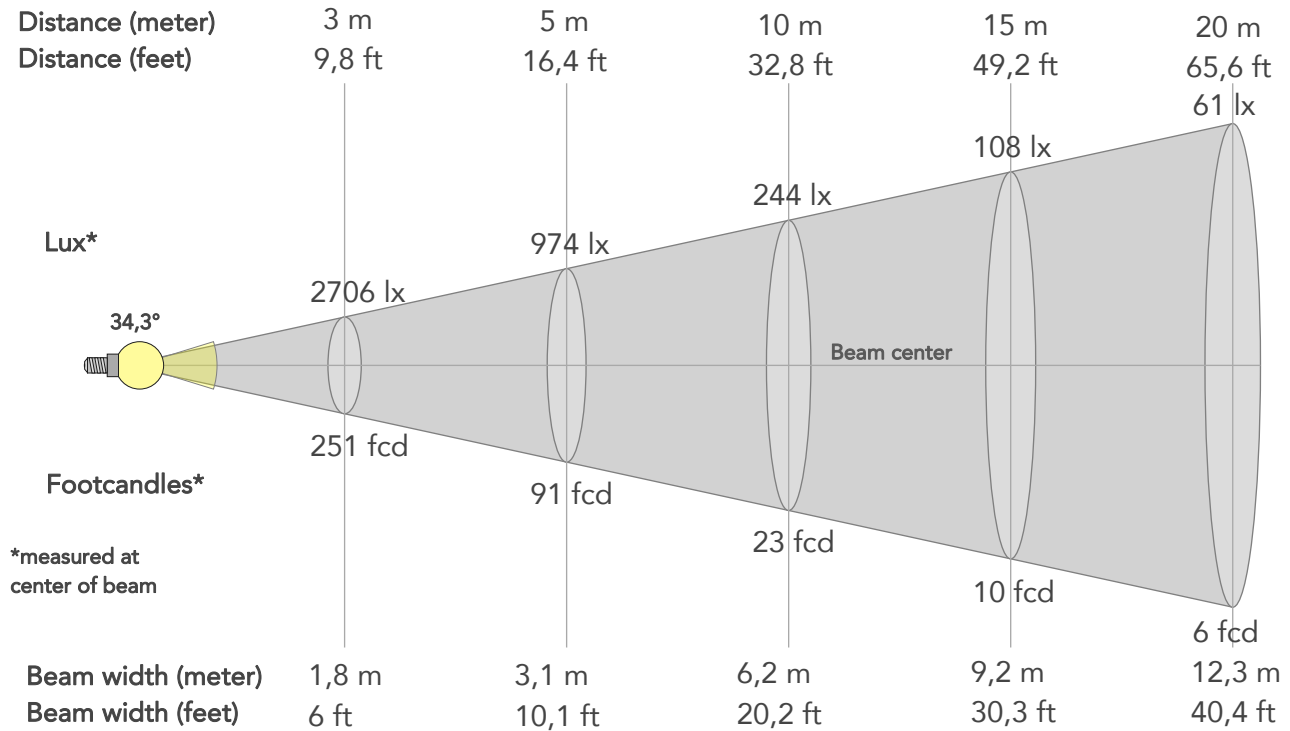
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	66	-18%	-6%
2	73	-15%	10%
3	56	-7%	25%
4	59	5%	25%
5	65	17%	16%
6	79	14%	-1%
7	85	3%	-10%
8	73	-10%	-13%
9	77	-20%	-1%
10	57	-18%	20%
11	51	-7%	30%
12	65	5%	24%
13	77	15%	11%
14	73	14%	-4%
15	72	9%	-23%
16	74	-4%	-15%



# BEAM DETAILS



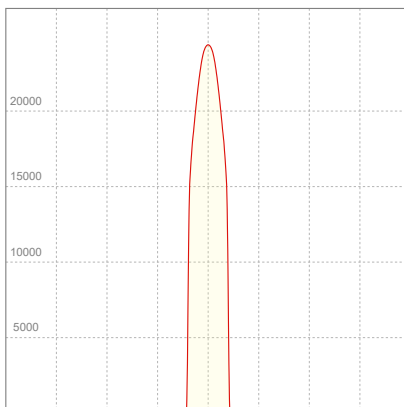
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34,3°	37,4°	39,7°	88,6%	88,4%



## 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	24358lx	6089lx	2706lx	1522lx	974lx	433lx	244lx	108lx	61lx	39lx	27lx	15lx	10lx
Footcand.	2263fcd	566fcd	251fcd	141fcd	91fcd	40fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,6m	1,2m	1,8m	2,5m	3,1m	4,6m	6,2m	9,2m	12,3m	15,4m	18,5m	24,7m	30,8m
Beam wid.	2ft	4,1ft	6ft	8,1ft	10,1ft	15,2ft	20,2ft	30,3ft	40,4ft	50,5ft	60,7ft	80,9ft	101,1ft

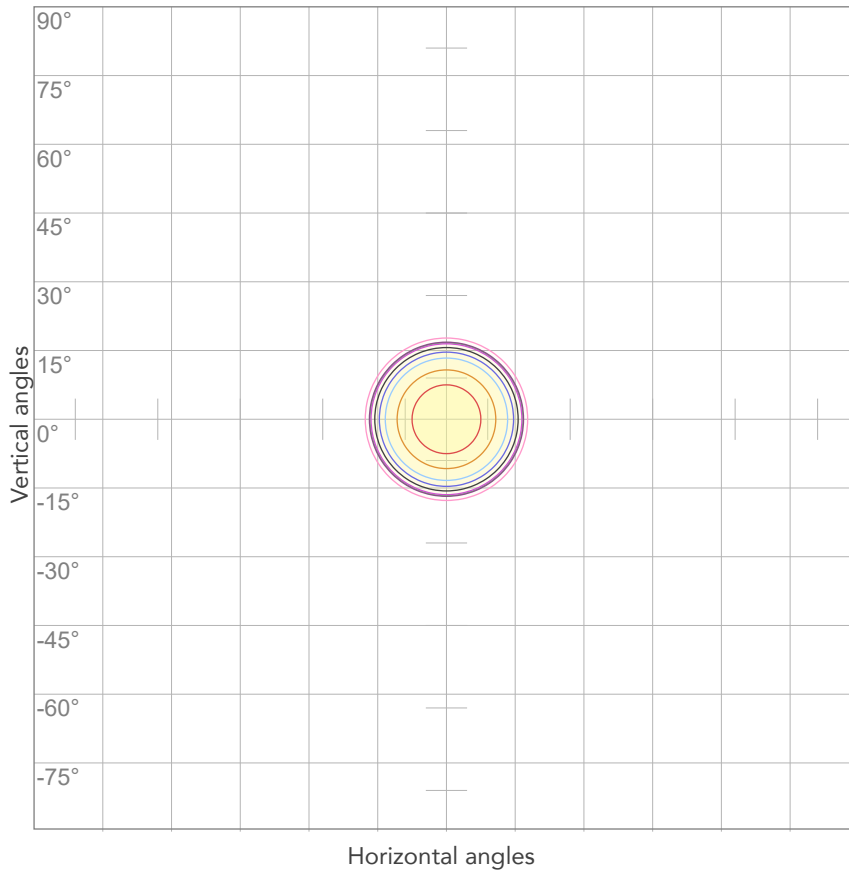
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	1,16A	248,7W	26lm/W
Power Fc			
0,95			

## ISO CANDELA DIAGRAM



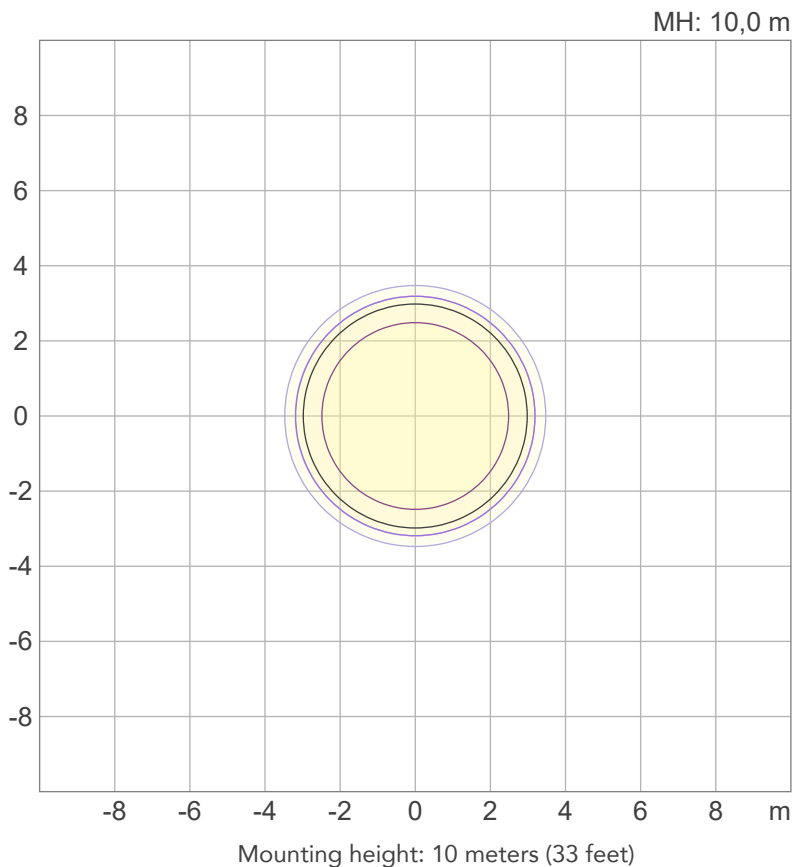
10%	2436 cd
20%	4872 cd
30%	7307 cd
40%	9743 cd
50%	12179 cd
60%	14615 cd
70%	17051 cd
80%	19486 cd

### Conditions:

Number of c-planes: 2

Candela at center: 24358 cd

## ISO LUX DIAGRAM



3%	7,31 lx
5%	12,2 lx
10%	24,4 lx
30%	73,1 lx
50%	122 lx

### Conditions:

Number of c-planes: 2

Lux at center: 244 lx

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





Total lumen output:

7093 lm

Peak candela output:

67697 cd

Light quality:

CRI: 67,6

Color temperature:

6316 K

PRODUCT NAME:

JETSPOT4Z

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

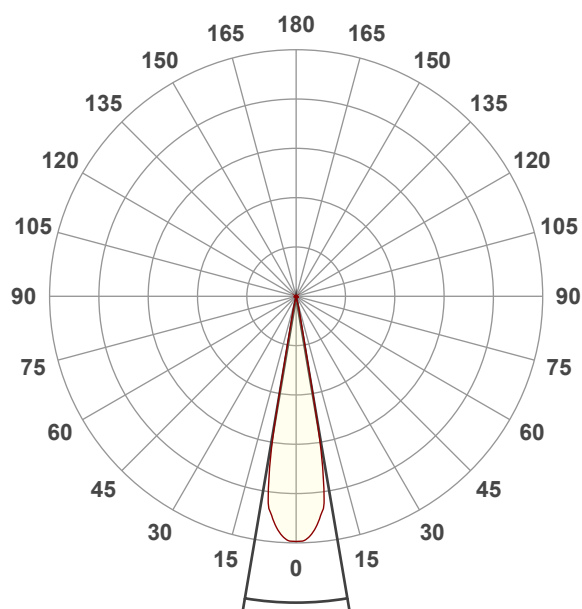
Full On

Operator:

Salvatore Giglio

Date and time:

16/01/2023 13:29:44

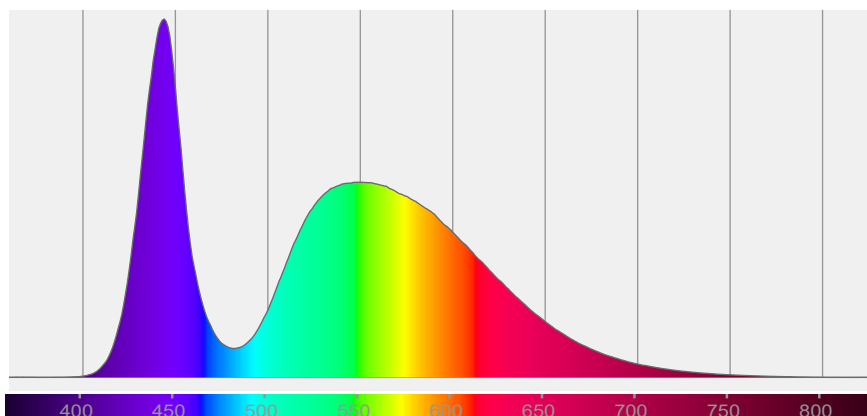


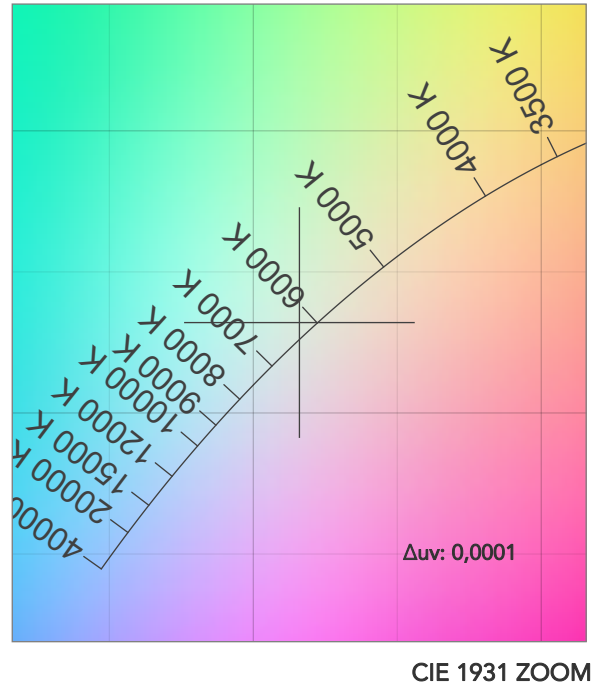
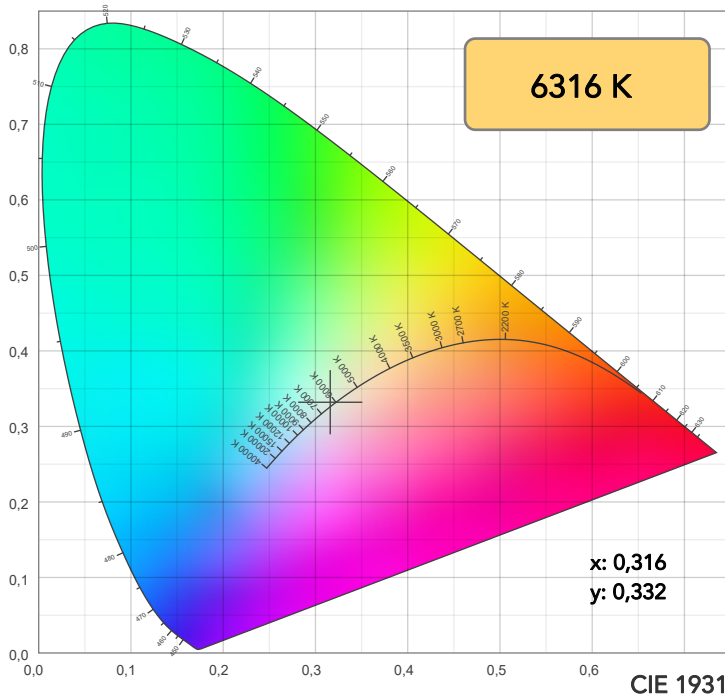
Beam angle 50%: 19,3°

Field angle 10%: 21,9°

Cut off angle 2.5%: 24,3°

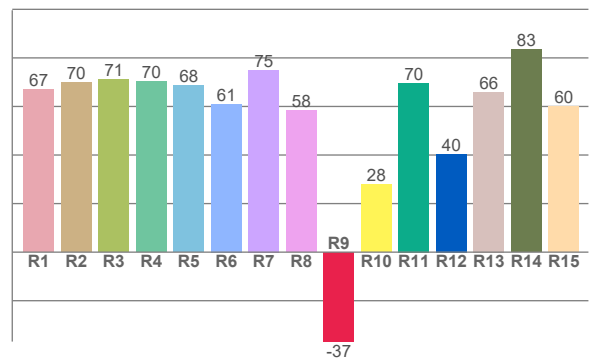
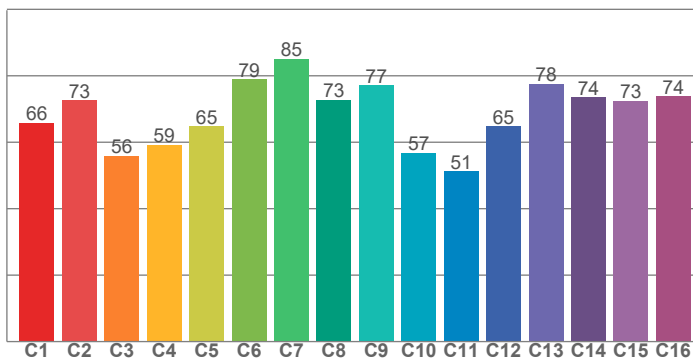
Spectra





TM30: 68,1

CRI: 67,6 (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
66,9	69,9	71,0	70,1	68,5	61,0	75,0	58,4	-36,8	28,0	69,6	40,4	65,9	83,5	60,0

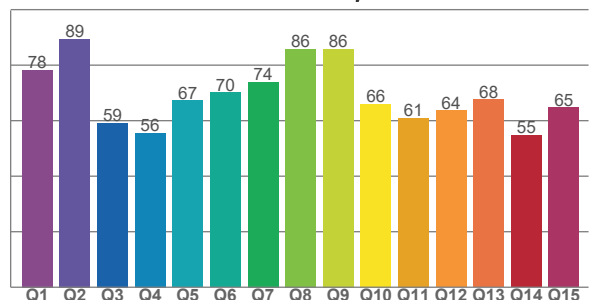
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65,8	72,6	55,9	59,1	64,8	79,0	85,0	72,8	77,1	56,7	51,2	64,8	77,5	73,6	72,5	73,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,3	89,5	59,1	55,6	67,3	70,1	73,8	85,8	85,8	65,9	60,9	63,7	67,6	54,7	64,7

CQS: 67,7



## COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6316 K	67,6	-36,8	68,1	94,9	67,7	45	0,316	0,332	0,0001

# TM30 DETAILS

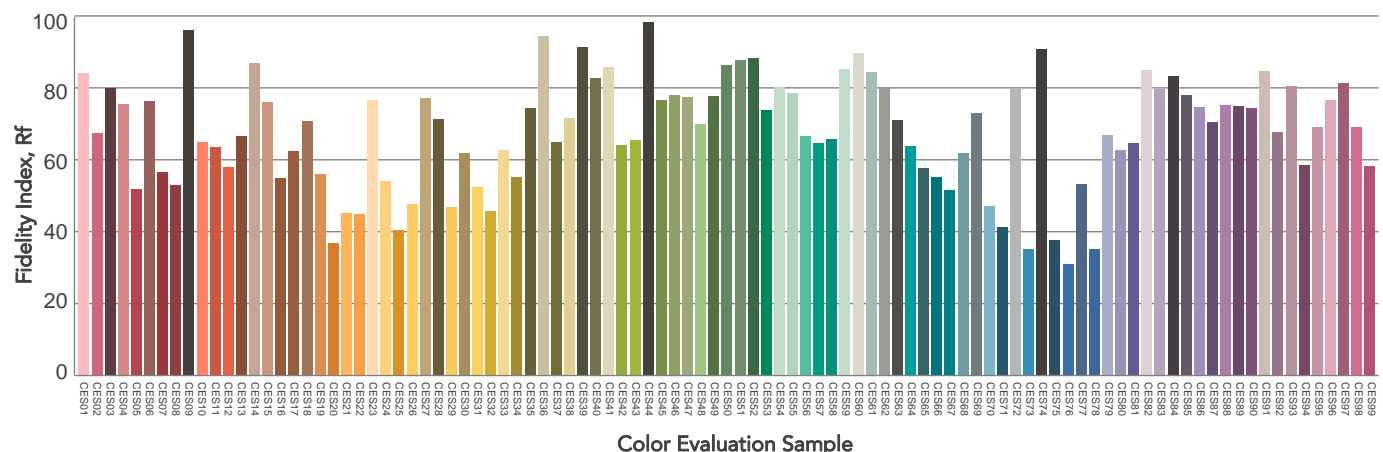
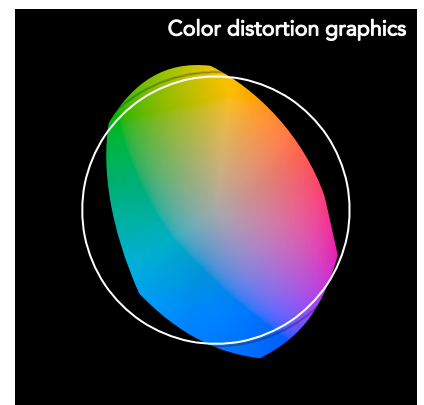
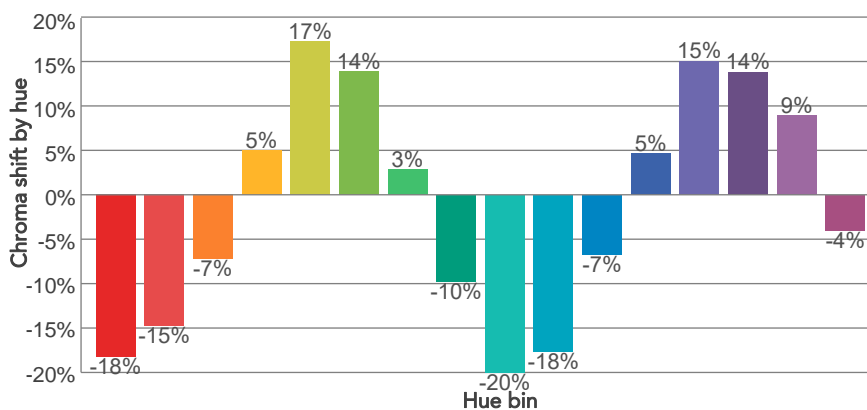
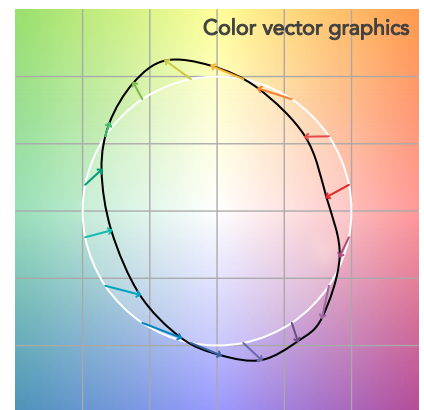
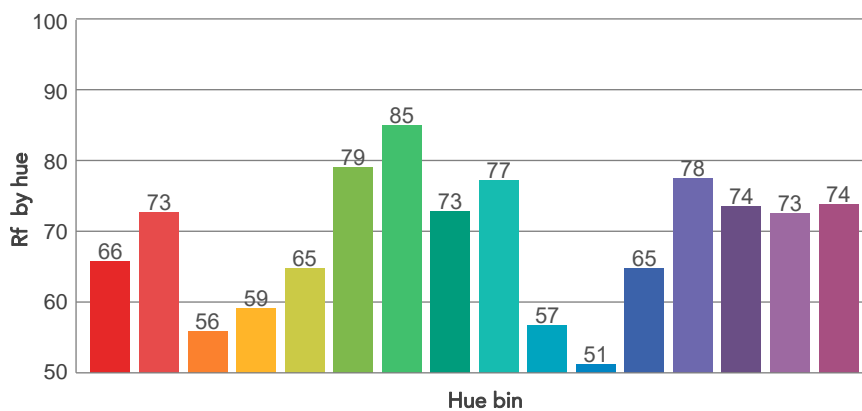
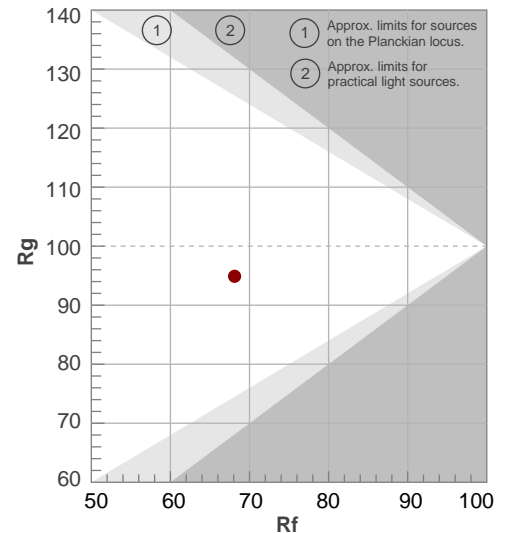
**Rf 68,1**

Fidelity index Rf

**Rg 94,9**

Gammut index

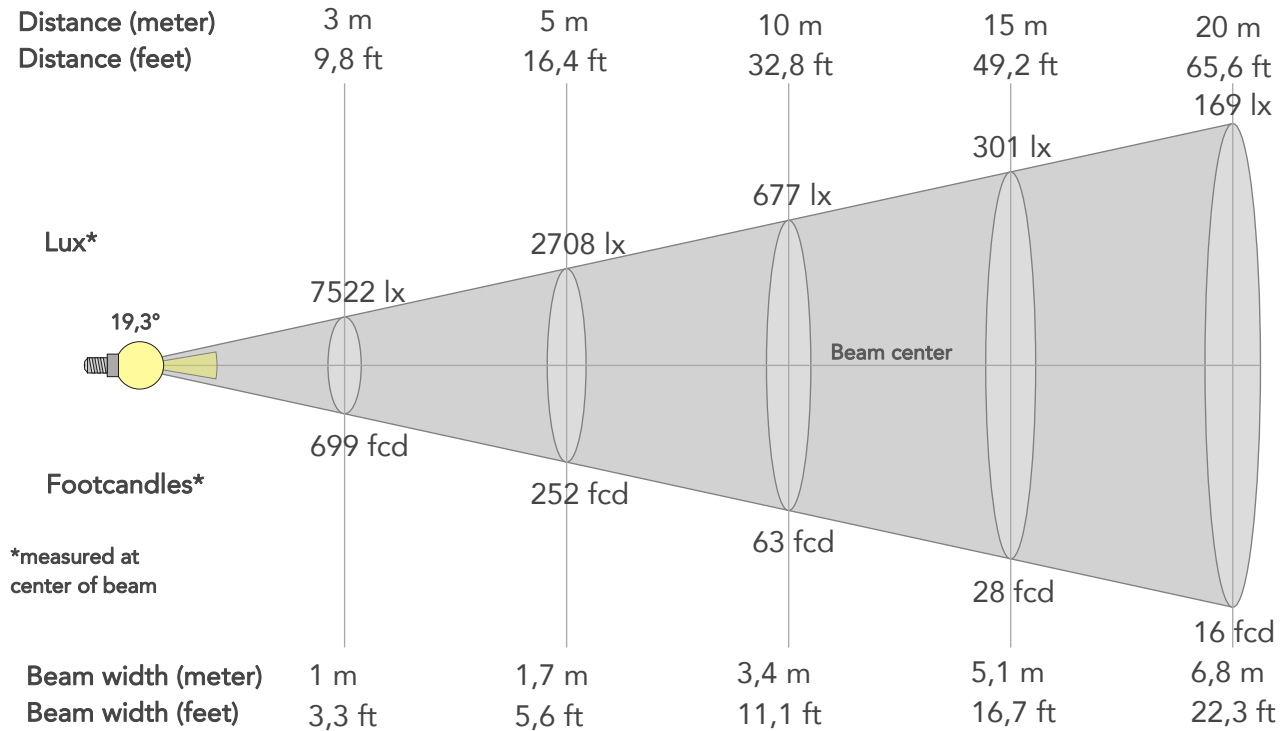
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	66	-18%	-6%
2	73	-15%	9%
3	56	-7%	25%
4	59	5%	25%
5	65	17%	16%
6	79	14%	-1%
7	85	3%	-10%
8	73	-10%	-13%
9	77	-20%	-1%
10	57	-18%	20%
11	51	-7%	30%
12	65	5%	24%
13	78	15%	11%
14	74	14%	-4%
15	73	9%	-23%
16	74	-4%	-15%



## BEAM DETAILS



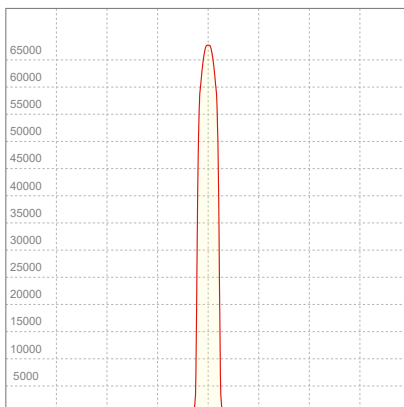
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19,3°	21,9°	24,3°	80,2%	80,2%



### 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	67697lx	16924lx	7522lx	4231lx	2708lx	1204lx	677lx	301lx	169lx	108lx	75lx	42lx	27lx
Footcand.	6289fcd	1572fcd	699fcd	393fcd	252fcd	112fcd	63fcd	28fcd	16fcd	10fcd	7fcd	4fcd	3fcd
Beam wid.	0,3m	0,7m	1m	1,4m	1,7m	2,5m	3,4m	5,1m	6,8m	8,5m	10,2m	13,6m	17m
Beam wid.	1,1ft	2,2ft	3,3ft	4,4ft	5,6ft	8,3ft	11,1ft	16,7ft	22,3ft	27,8ft	33,4ft	44,5ft	55,7ft

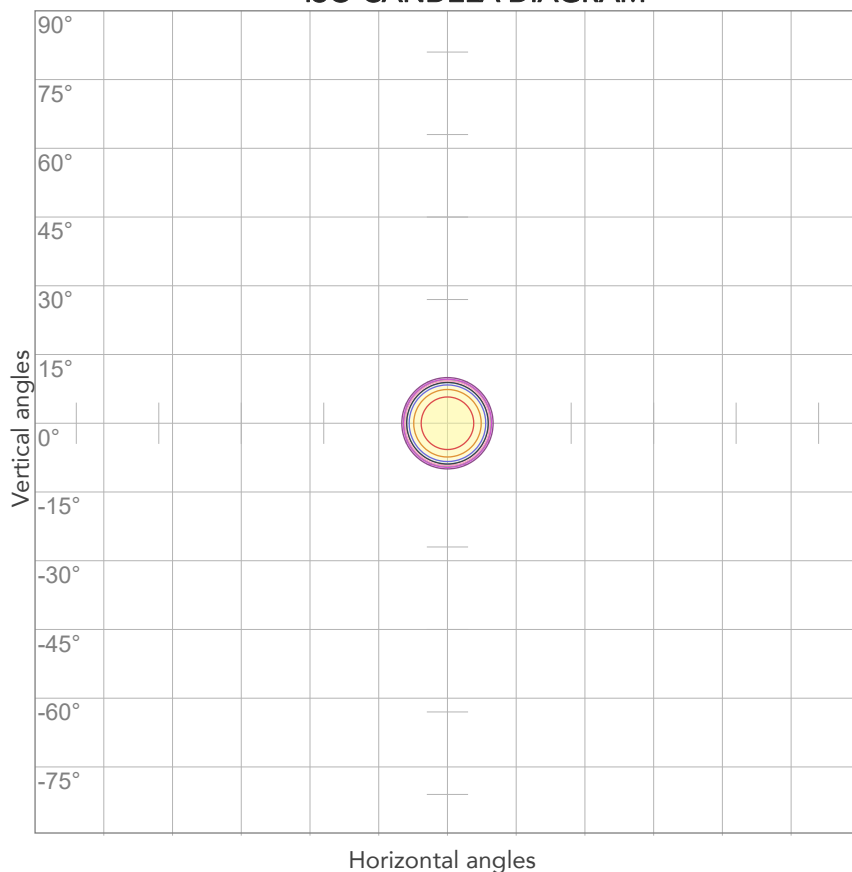
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,16A	248,8W	29lm/W
Power Fc			
0,95			

## ISO CANDELA DIAGRAM



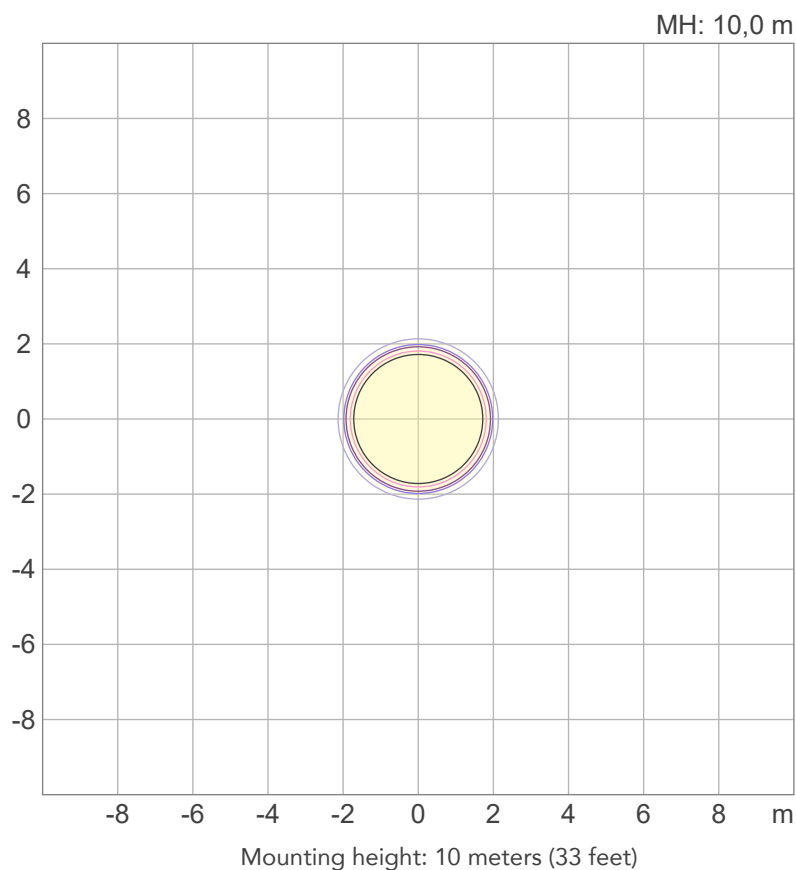
10%	6770 cd
20%	13539 cd
30%	20309 cd
40%	27079 cd
50%	33849 cd
60%	40618 cd
70%	47388 cd
80%	54158 cd

### Conditions:

Number of c-planes: 2

Candela at center: 67697 cd

## ISO LUX DIAGRAM



3%	20,3 lx
5%	33,8 lx
10%	67,7 lx
30%	203 lx
50%	338 lx

### Conditions:

Number of c-planes: 2

Lux at center: 677 lx

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



Total lumen output:

5630 lm

Peak candela output:

190139 cd

Light quality:

CRI: 67,6

Color temperature:

6326 K

PRODUCT NAME:

JETSPOT4Z

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

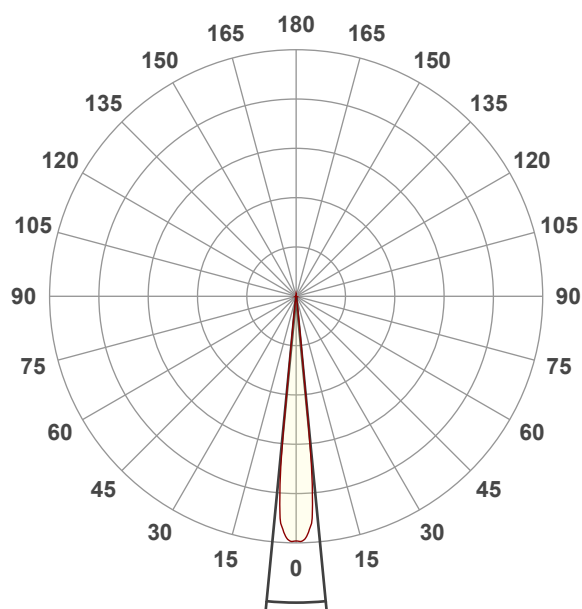
Full On

Operator:

Salvatore Giglio

Date and time:

16/01/2023 13:28:22

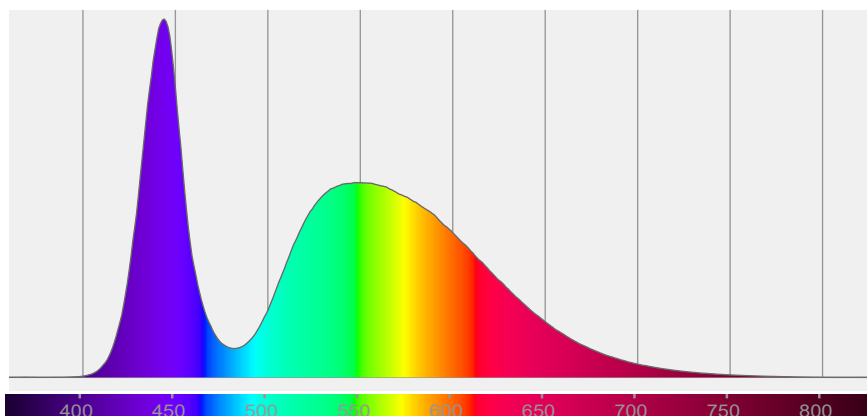


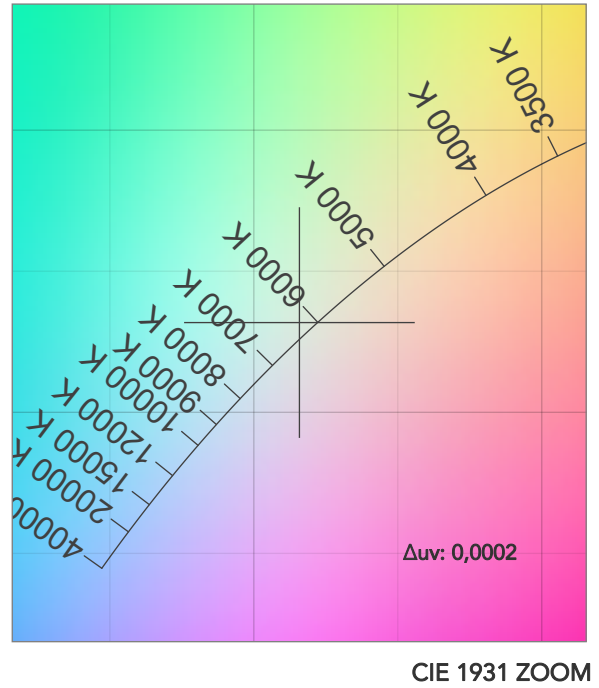
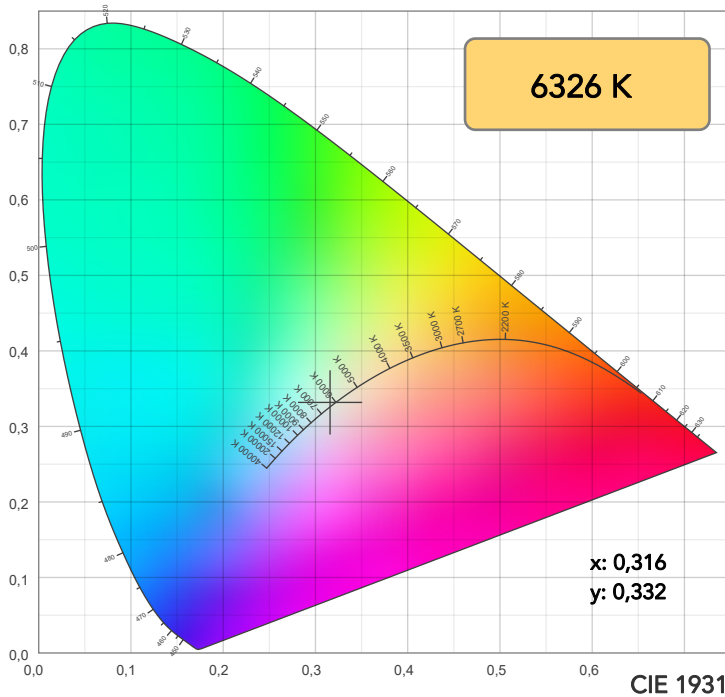
Beam angle 50%: 11,1°

Field angle 10%: 13°

Cut off angle 2.5%: 14,2°

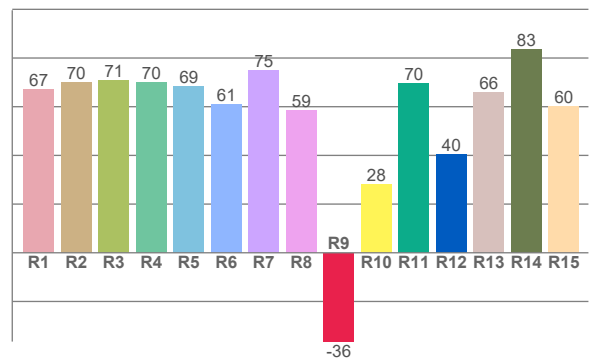
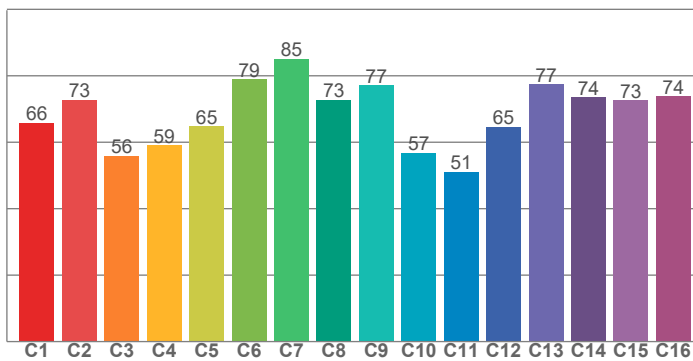
Spectra





TM30: 68,1

CRI: 67,6 (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
67,0	69,9	70,9	70,2	68,5	61,0	75,0	58,6	-36,5	28,0	69,7	40,4	66,0	83,4	60,1

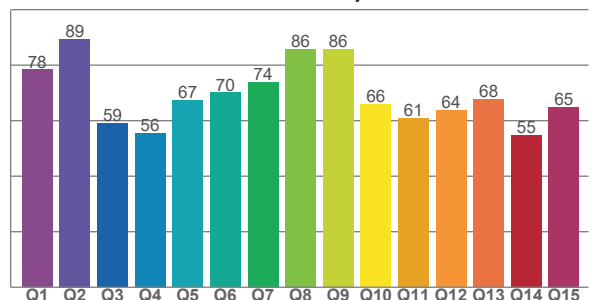
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65,9	72,7	55,9	59,1	64,8	79,0	85,0	72,8	77,1	56,7	51,1	64,7	77,5	73,5	72,5	73,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,3	89,5	59,1	55,6	67,3	70,1	73,9	85,8	85,8	65,9	60,9	63,7	67,7	54,9	64,8

CQS: 67,7



## COLOR PARAMETERS

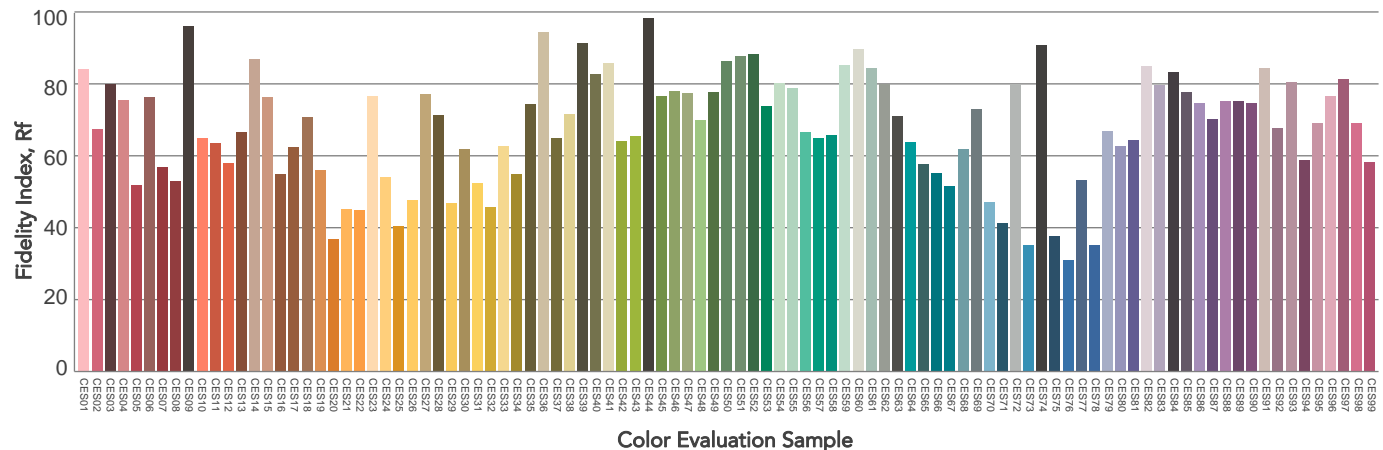
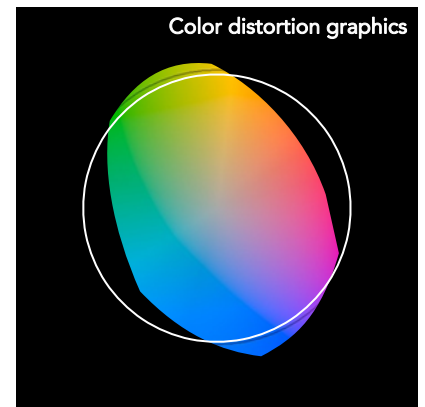
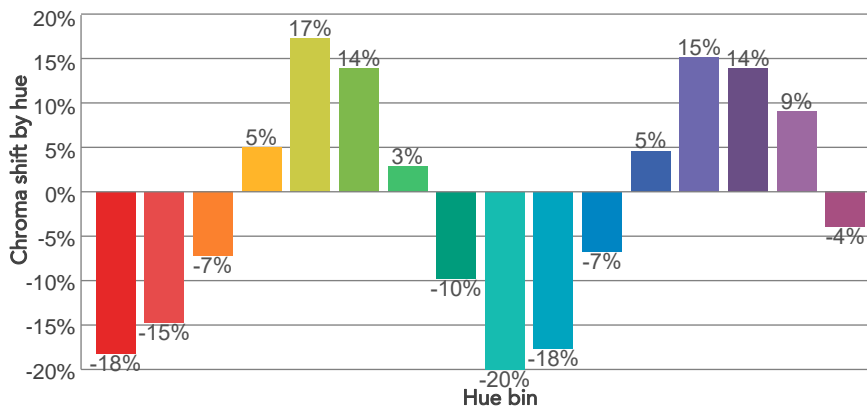
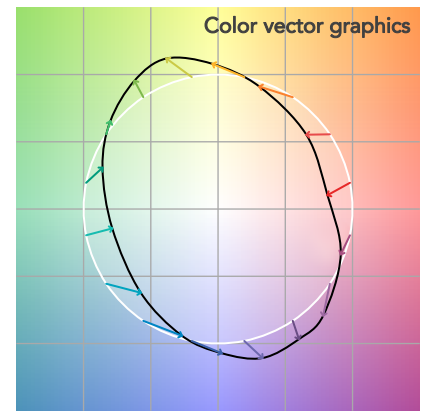
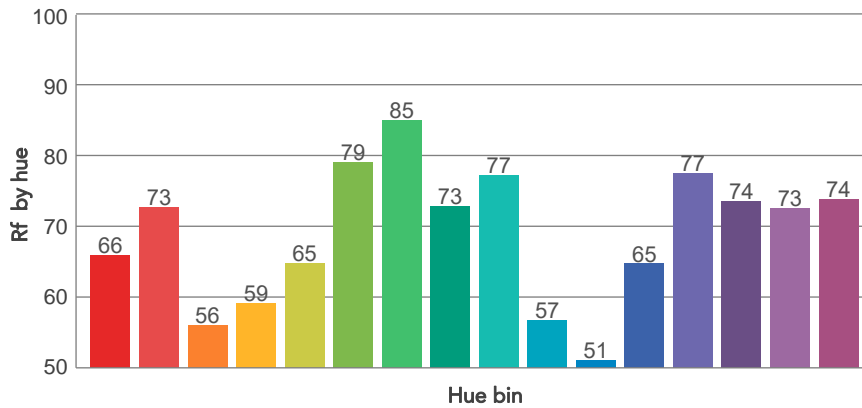
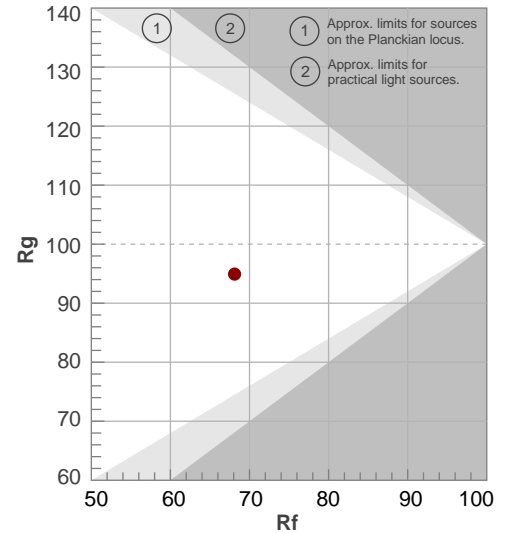
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6326 K	67,6	-36,5	68,1	94,9	67,7	45	0,316	0,332	0,0002

# TM30 DETAILS

**Rf 68,1**  
Fidelity index Rf

**Rg 94,9**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	66	-18%	-6%
2	73	-15%	9%
3	56	-7%	25%
4	59	5%	25%
5	65	17%	16%
6	79	14%	-1%
7	85	3%	-10%
8	73	-10%	-13%
9	77	-20%	-1%
10	57	-18%	20%
11	51	-7%	30%
12	65	5%	24%
13	77	15%	11%
14	74	14%	-4%
15	73	9%	-22%
16	74	-4%	-15%

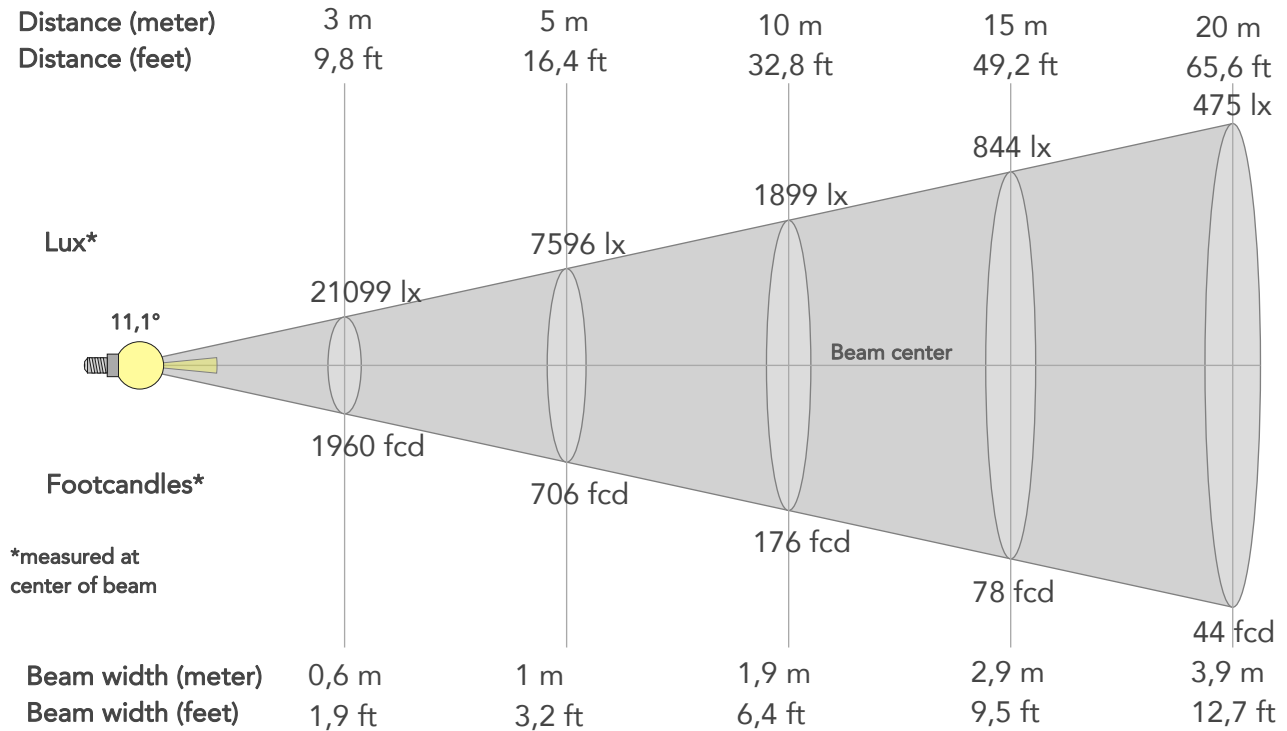




## BEAM DETAILS



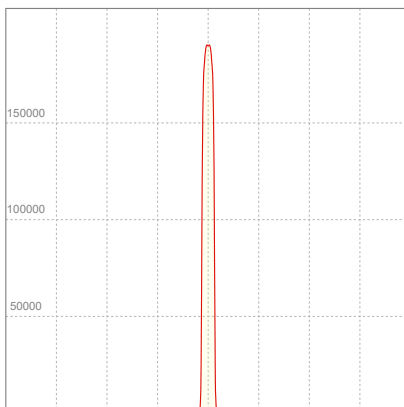
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,1°	13°	14,2°	96,9%	96,9%



### 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	18988lx	47472lx	21099lx	11868lx	7596lx	3376lx	1899lx	844lx	475lx	304lx	211lx	119lx	76lx
Footcand.	17641fcd	4410fcd	1960fcd	1103fcd	706fcd	314fcd	176fcd	78fcd	44fcd	28fcd	20fcd	11fcd	7fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	1,9m	2,9m	3,9m	4,8m	5,8m	7,8m	9,7m
Beam wid.	0,6ft	1,3ft	1,9ft	2,5ft	3,2ft	4,8ft	6,4ft	9,5ft	12,7ft	15,9ft	19,1ft	25,4ft	31,8ft

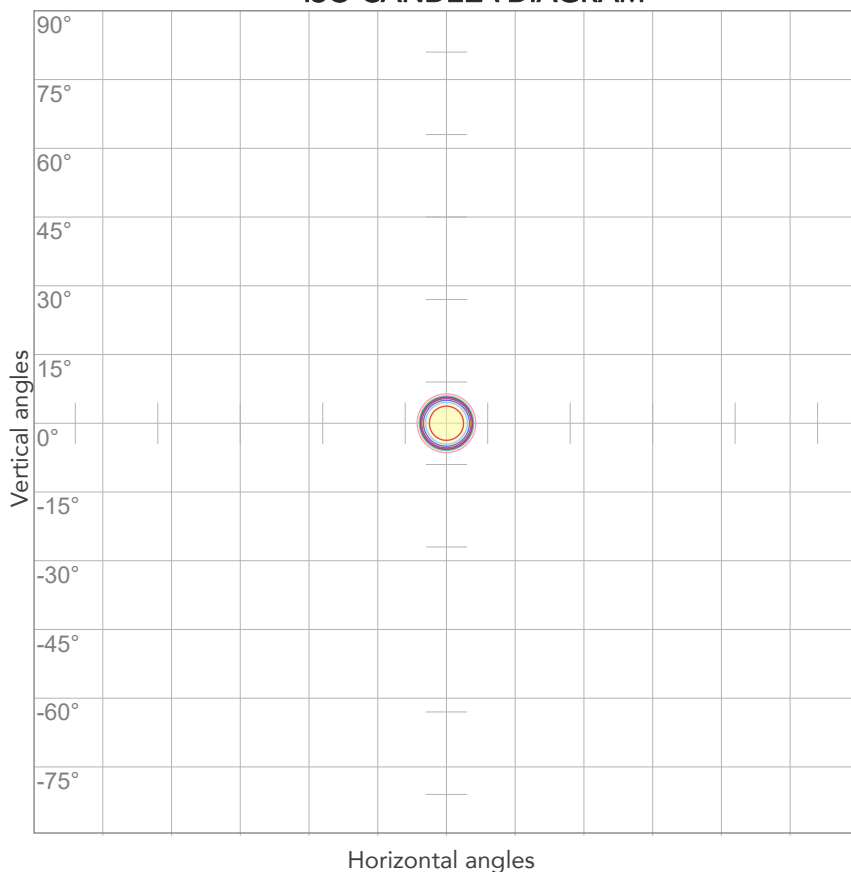
### LINEAR DISTRIBUTION DIAGRAM



### ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,16A	249,1W	23lm/W
Power Fc			
0,95			

## ISO CANDELA DIAGRAM



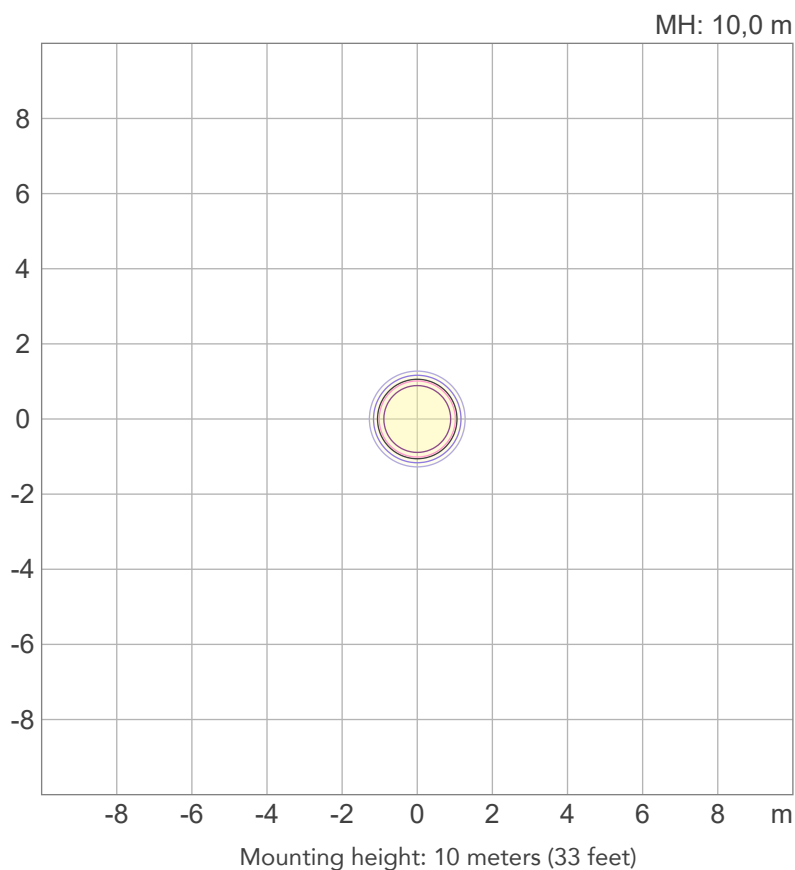
10%	18989 cd
20%	37978 cd
30%	56966 cd
40%	75955 cd
50%	94944 cd
60%	113933 cd
70%	132921 cd
80%	151910 cd

### Conditions:

Number of c-planes: 2

Candela at center: 189888 cd

## ISO LUX DIAGRAM



3%	57,0 lx
5%	94,9 lx
10%	190 lx
30%	570 lx
50%	949 lx

### Conditions:

Number of c-planes: 2

Lux at center: 1899 lx

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