

# Photometric Test Report



## ECLFRESNELCT+M

350W indoor Led Fresnel with 6 color source  
200mm-8" lens  
(High Quality Mode)

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#### Color temperature 2800K

Max Zoom	68
Med Zoom	73
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#### Color temperature 3200K

Max Zoom	83
Med Zoom	88
Min Zoom	93

#### Color temperature 4000K

Max Zoom	98
Med Zoom	103
Min Zoom	108

#### Color temperature 5600K

Max Zoom	113
Med Zoom	118
Min Zoom	123

#### Color temperature 6000K

Max Zoom	128
Med Zoom	133
Min Zoom	138

## 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:

9988 lm

Peak candela output:

11490 cd

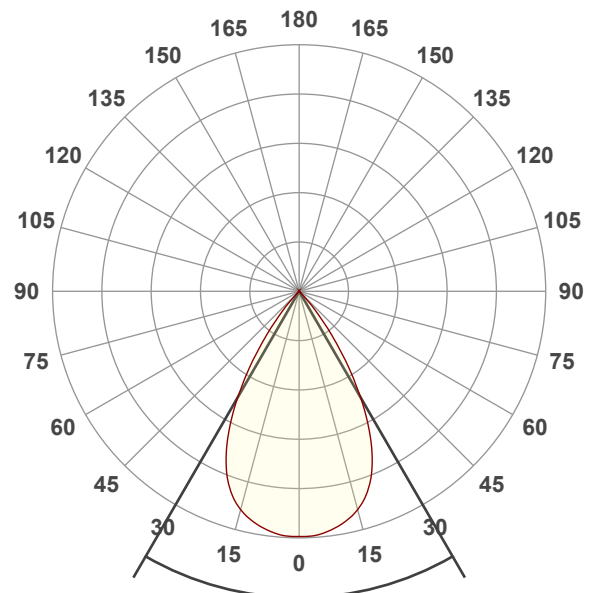
**PRODUCT NAME:**  
ECLFRCTPM

**MEASURAMENT CONDITIONS:**  
Beam angle:  
Max Zoom

Target:  
Full On

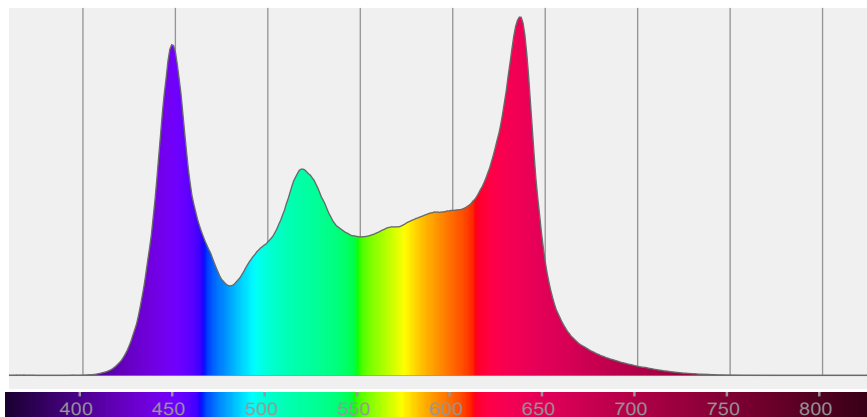
Operator:  
Salvatore Giglio

Date and time:  
18/09/2023 13:34:36



Beam angle 50%: 60,1°  
Field angle 10%: 80,8°  
Cut off angle 2.5%: 88,4°

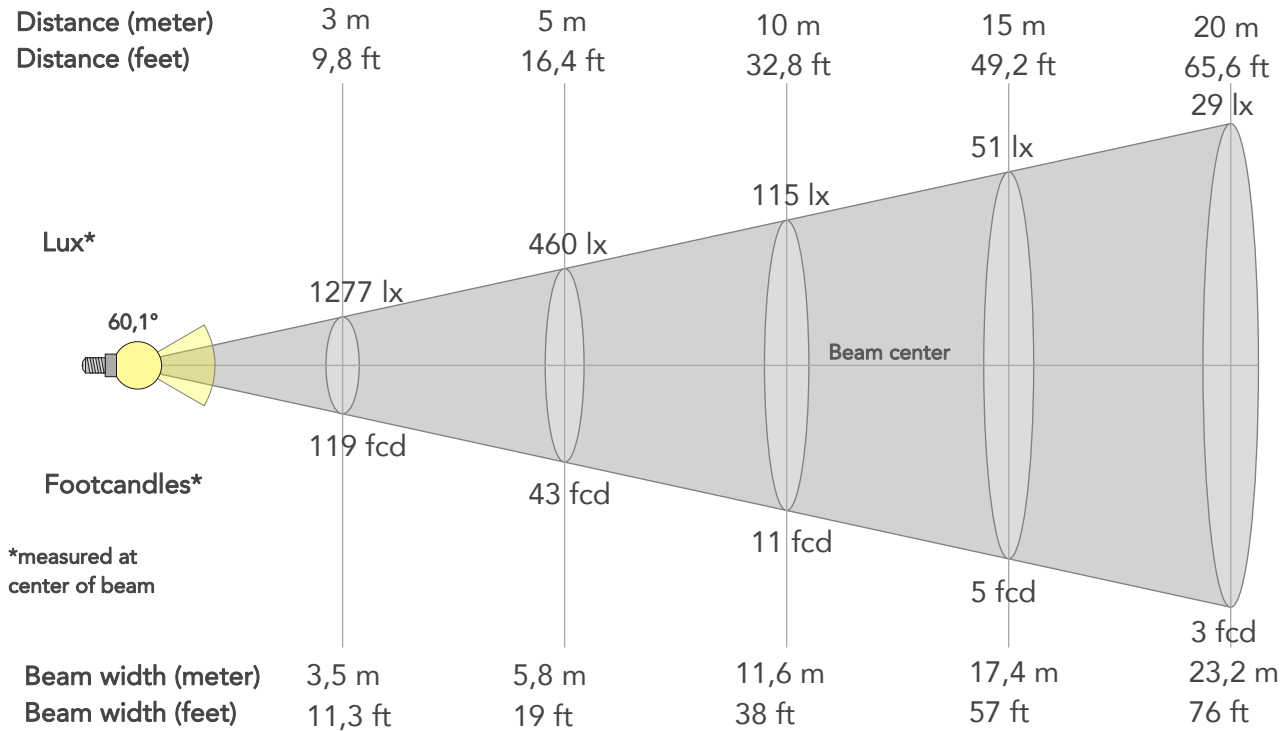
Spectra



# BEAM DETAILS



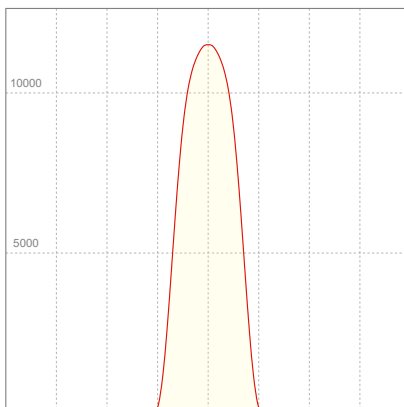
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,1°	80,8°	88,4°	100,0%	99,7%



## 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	11490lx	2872lx	1277lx	718lx	460lx	204lx	115lx	51lx	29lx	18lx	13lx	7lx	5lx
Footcand.	1067fcd	267fcd	119fcd	67fcd	43fcd	19fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,4m	23,2m	28,9m	34,7m	46,3m	57,9m
Beam wid.	3,8ft	7,6ft	11,3ft	15,2ft	19ft	28,5ft	38ft	57ft	76ft	95ft	113,9ft	151,9ft	189,9ft

## LINEAR DISTRIBUTION DIAGRAM

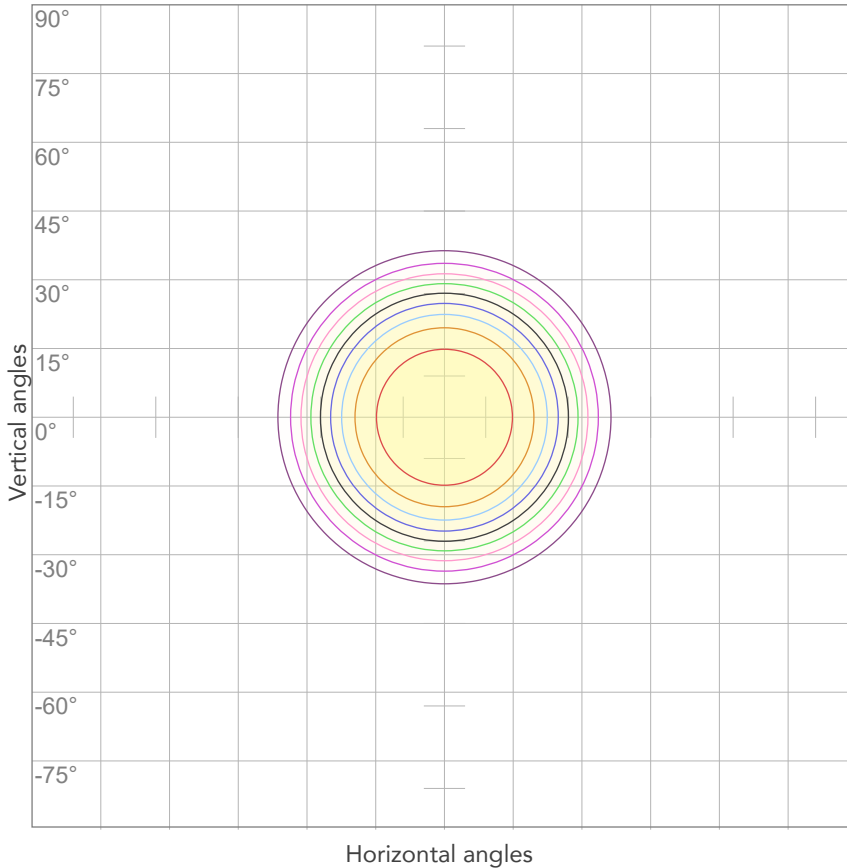


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,55A	343,8W	29lm/W

Power FC
0,99

## ISO CANDELA DIAGRAM



10%	1149 cd
20%	2298 cd
30%	3447 cd
40%	4596 cd
50%	5745 cd
60%	6894 cd
70%	8043 cd
80%	9192 cd

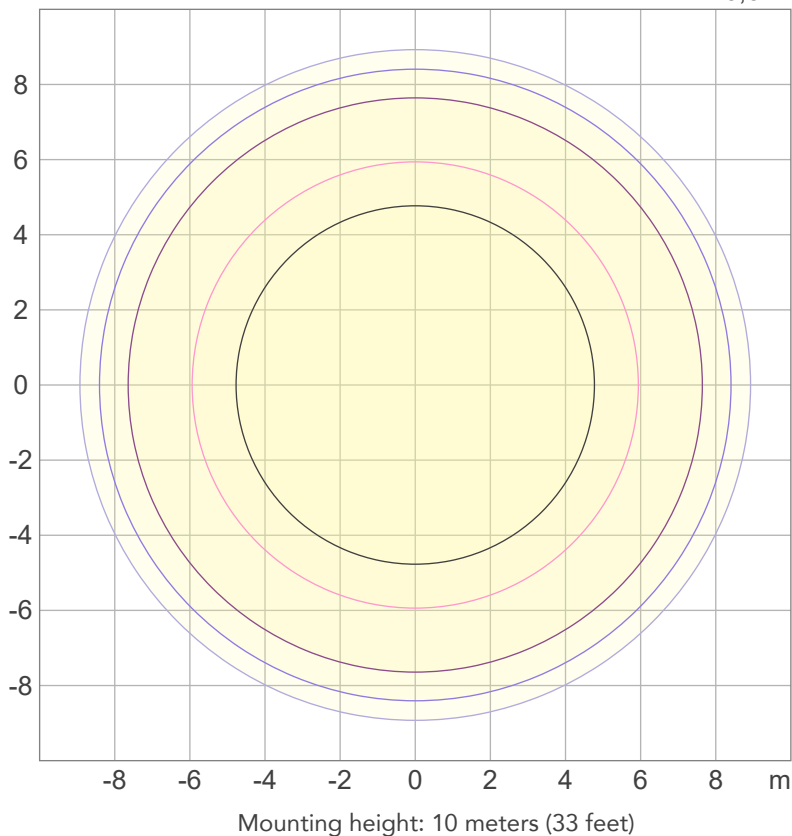
Conditions:

Number of c-planes: 2

Candela at center: 11490 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	3,45 lx
5%	5,74 lx
10%	11,5 lx
30%	34,5 lx
50%	57,4 lx

Conditions:

Number of c-planes: 2

Lux at center: 115 lx

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



Total lumen output:

7633 lm

Peak candela output:

38845 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

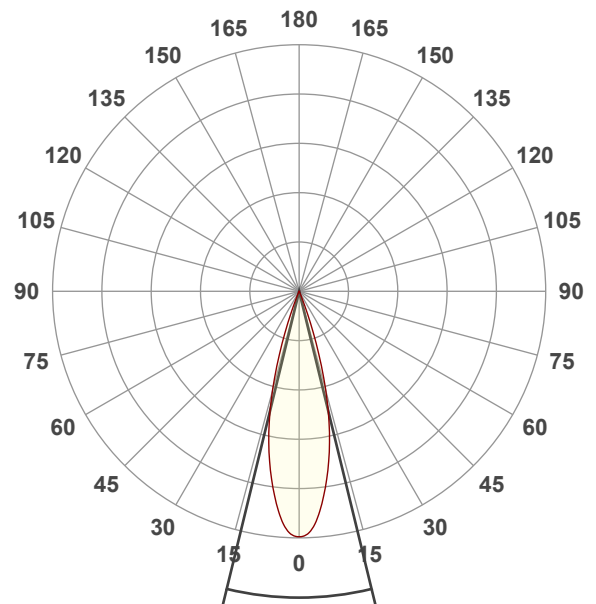
Full On

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:49:33

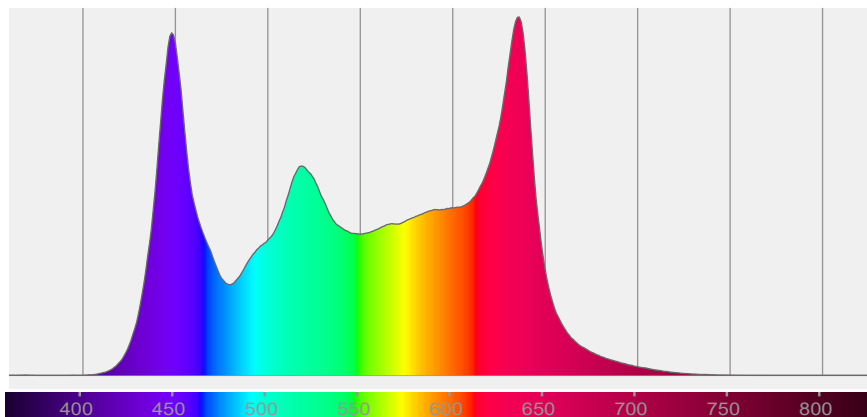


Beam angle 50%: 27,4°

Field angle 10%: 40,7°

Cut off angle 2.5%: 45,5°

Spectra

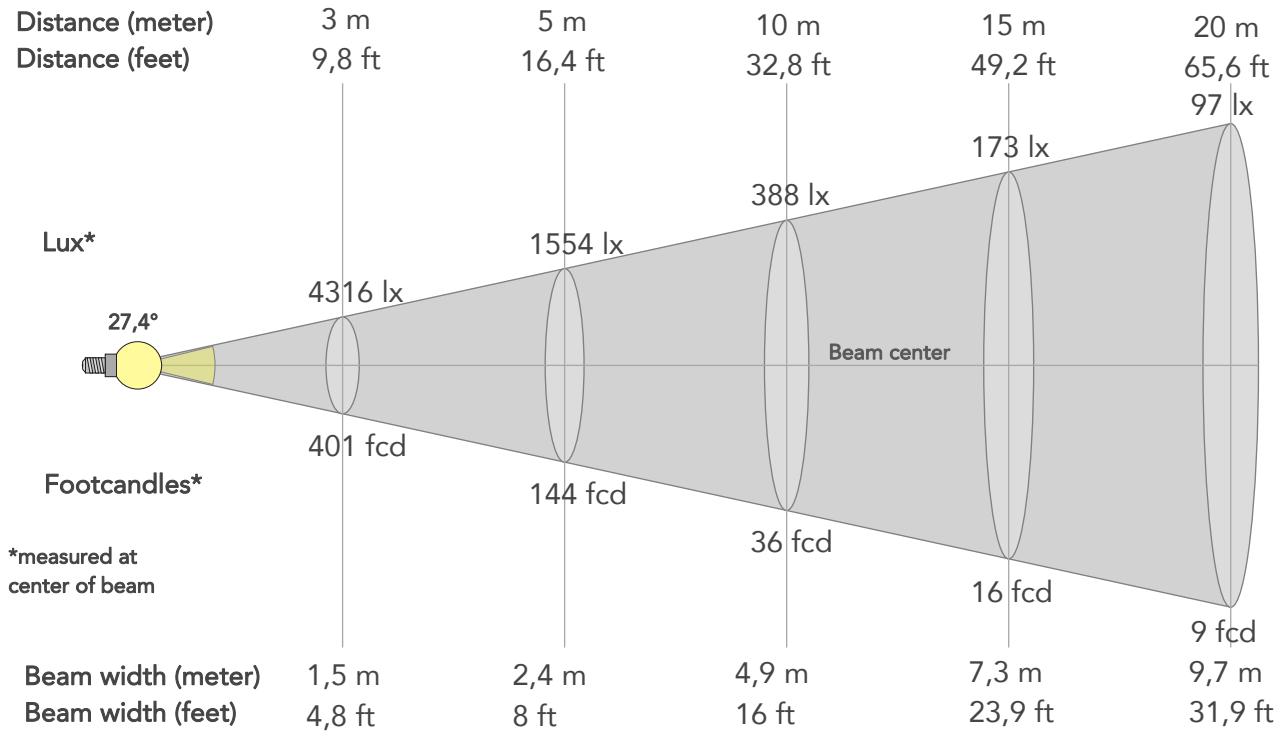




# BEAM DETAILS



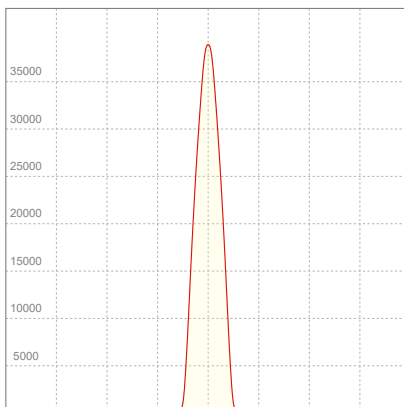
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,4°	40,7°	45,5°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	38845lx	9711lx	4316lx	2428lx	1554lx	691lx	388lx	173lx	97lx	62lx	43lx	24lx	16lx
Footcand.	3609fcd	902fcd	401fcd	226fcd	144fcd	64fcd	36fcd	16fcd	9fcd	6fcd	4fcd	2fcd	1fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,7m	4,9m	7,3m	9,7m	12,2m	14,6m	19,5m	24,3m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	12ft	16ft	23,9ft	31,9ft	39,9ft	47,9ft	63,9ft	79,8ft

## LINEAR DISTRIBUTION DIAGRAM

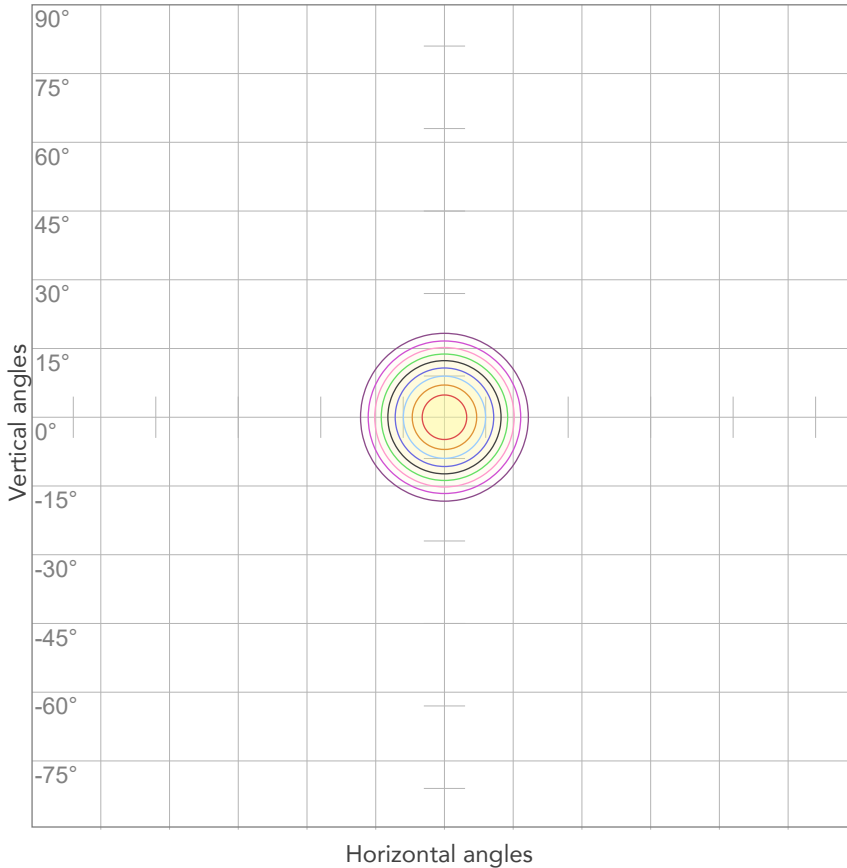


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,52A	339,3W	22lm/W

Power FC
0,99

## ISO CANDELA DIAGRAM



10%	3885 cd
20%	7769 cd
30%	11654 cd
40%	15538 cd
50%	19423 cd
60%	23307 cd
70%	27192 cd
80%	31076 cd

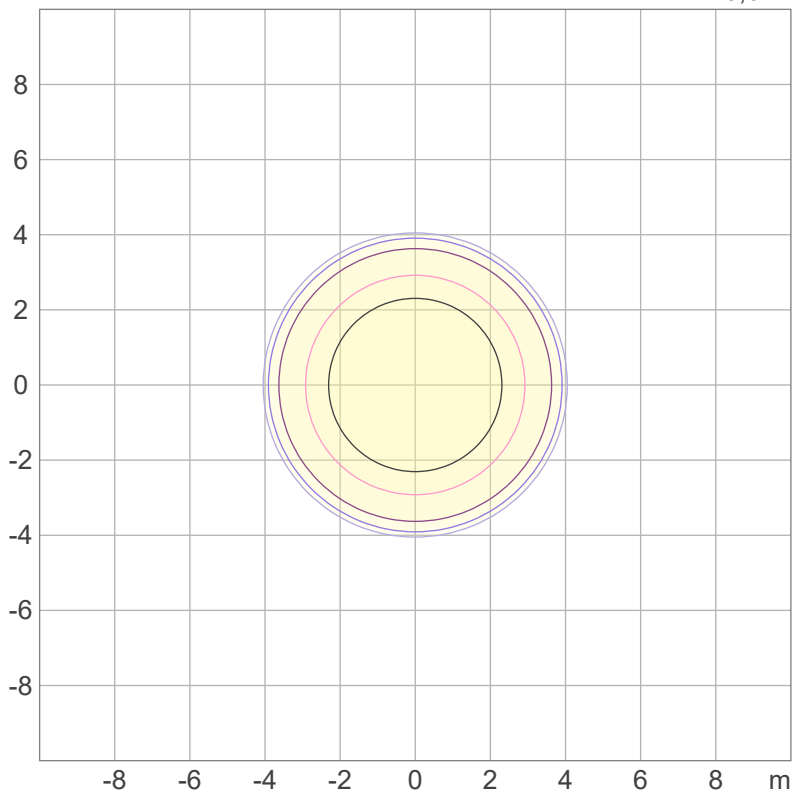
Conditions:

Number of c-planes: 2

Candela at center: 38845 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	11,7 lx
5%	19,4 lx
10%	38,8 lx
30%	117 lx
50%	194 lx

Conditions:

Number of c-planes: 2

Lux at center: 388 lx

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



Total lumen output:

4073 lm

Peak candela output:

147707 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

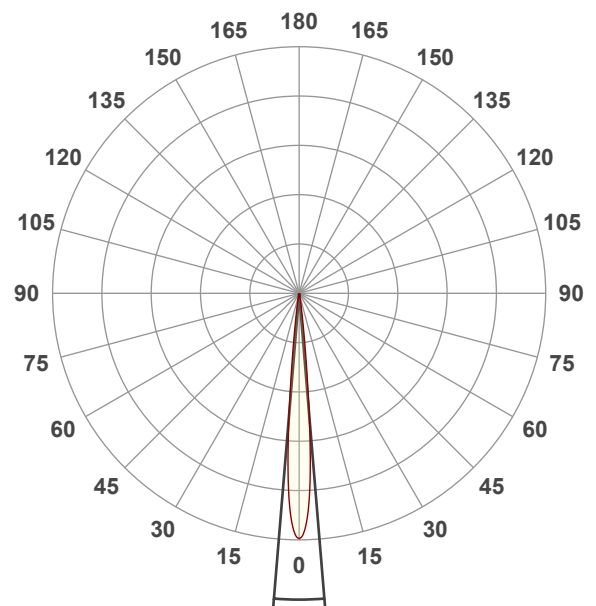
Full On

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:19:28

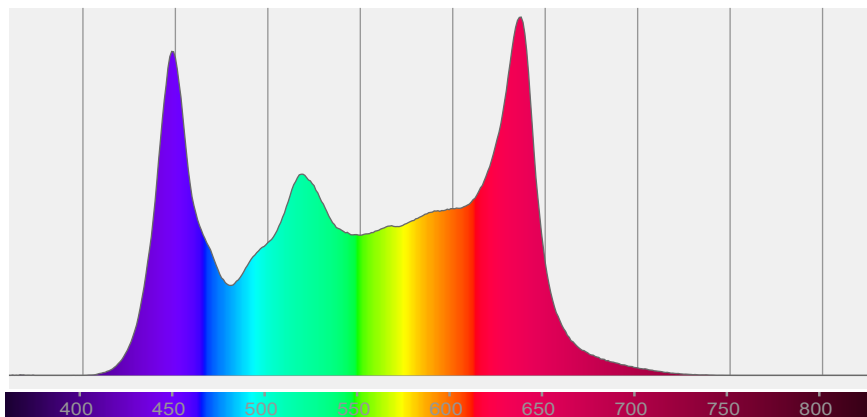


Beam angle 50%: 9,4°

Field angle 10%: 15,3°

Cut off angle 2.5%: 20°

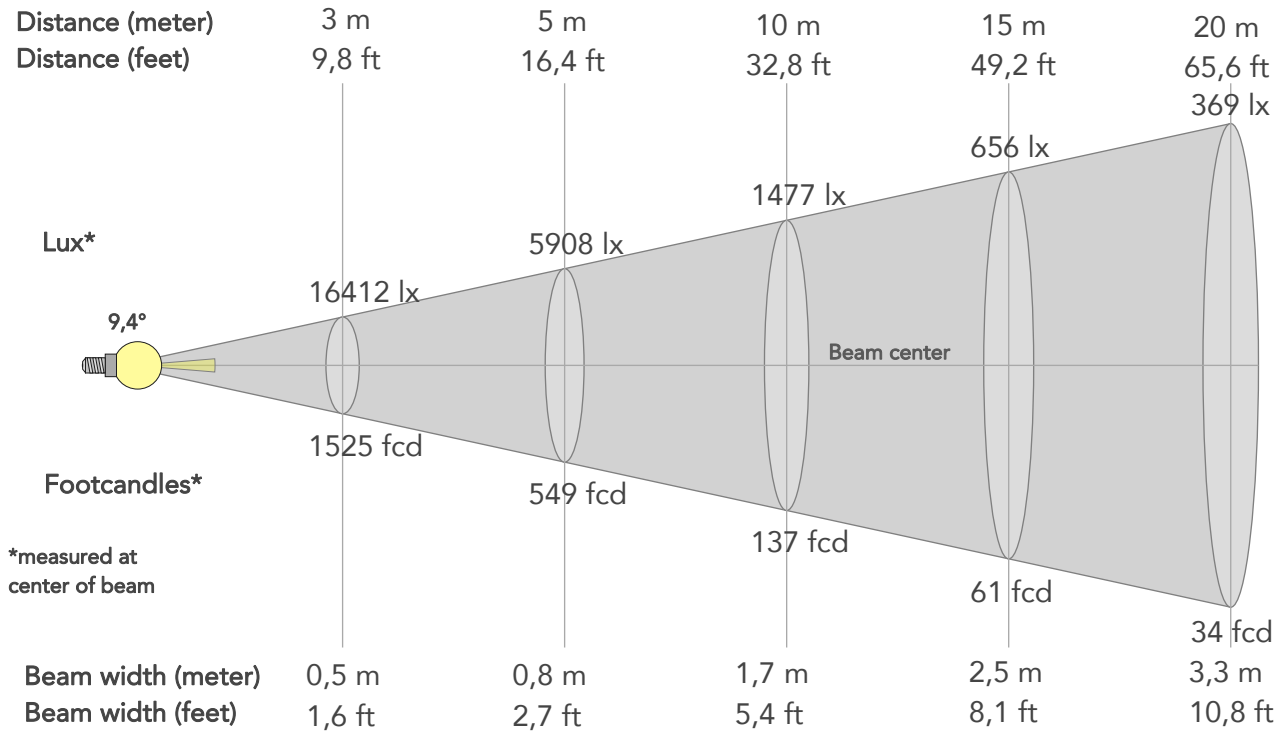
Spectra



# BEAM DETAILS



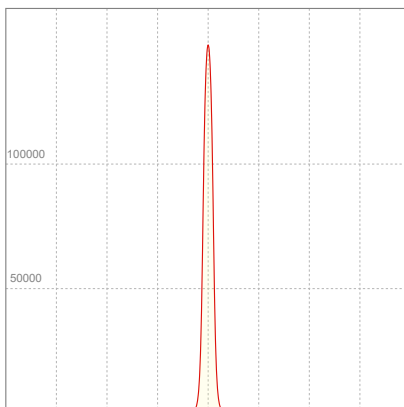
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,4°	15,3°	20°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	147707lx	36927lx	16412lx	9232lx	5908lx	2626lx	1477lx	656lx	369lx	236lx	164lx	92lx	59lx
Footcand.	13722fcd	3431fcd	1525fcd	858fcd	549fcd	244fcd	137fcd	61fcd	34fcd	22fcd	15fcd	9fcd	5fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,7m	2,5m	3,3m	4,1m	5m	6,6m	8,3m
Beam wid.	0,5ft	1,1ft	1,6ft	2,2ft	2,7ft	4,1ft	5,4ft	8,1ft	10,8ft	13,6ft	16,3ft	21,7ft	27,1ft

## LINEAR DISTRIBUTION DIAGRAM

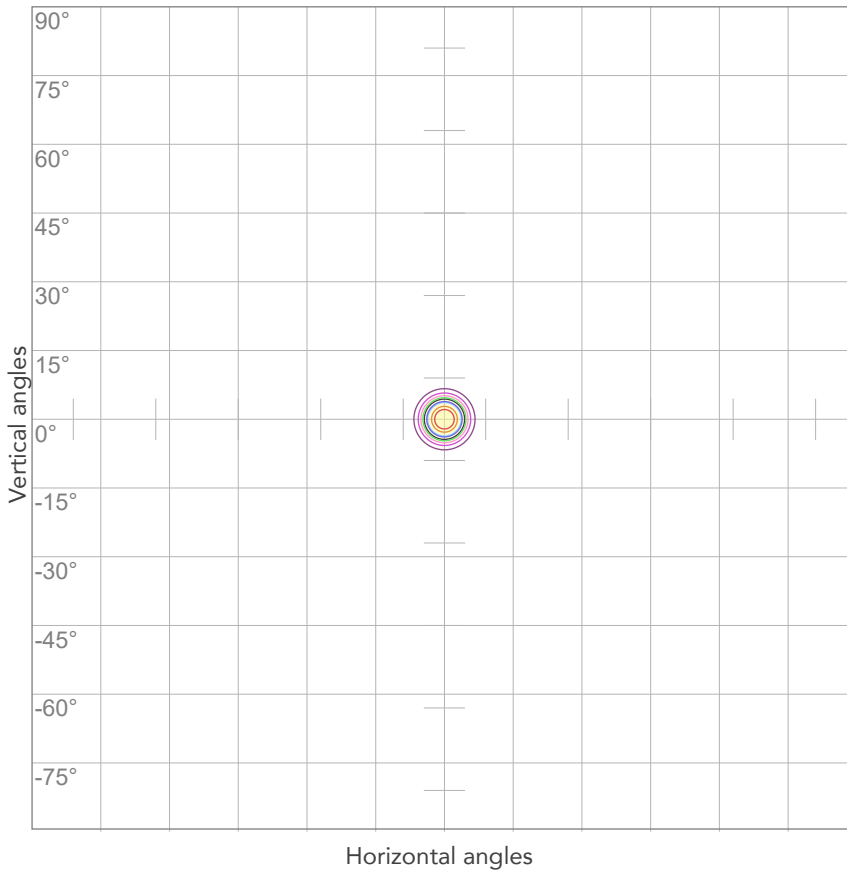


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,56A	348,8W	12lm/W

Power FC
0,99

## ISO CANDELA DIAGRAM



10%	14771 cd
20%	29541 cd
30%	44312 cd
40%	59083 cd
50%	73853 cd
60%	88624 cd
70%	103395 cd
80%	118165 cd

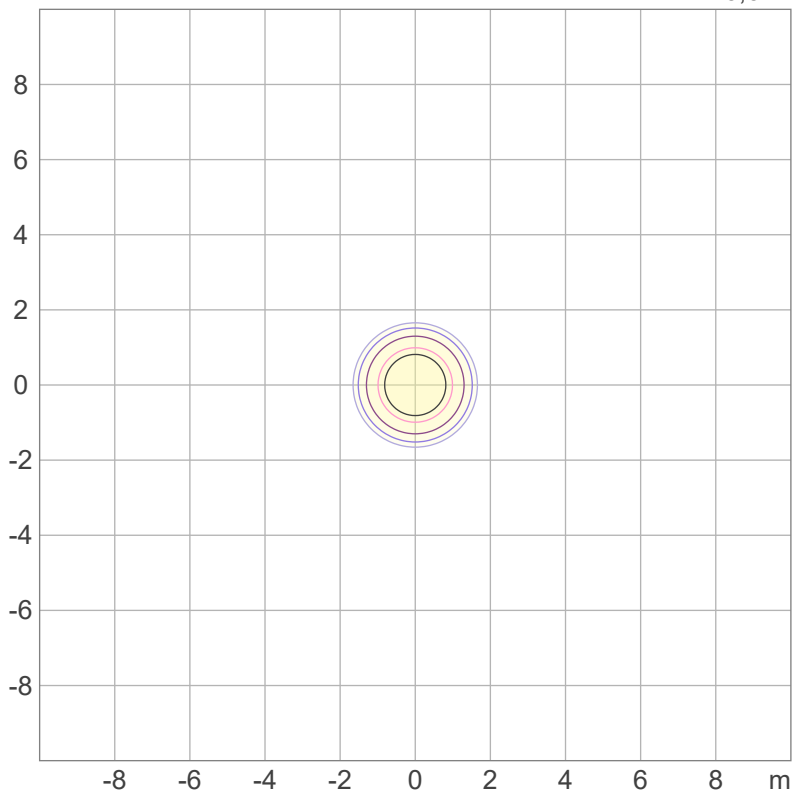
Conditions:

Number of c-planes: 2

Candela at center: 147707 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	44,3 lx
5%	73,9 lx
10%	148 lx
30%	443 lx
50%	739 lx

Conditions:

Number of c-planes: 2

Lux at center: 1477 lx

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



Total lumen output:

1041 lm

Peak candela output:

1204 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

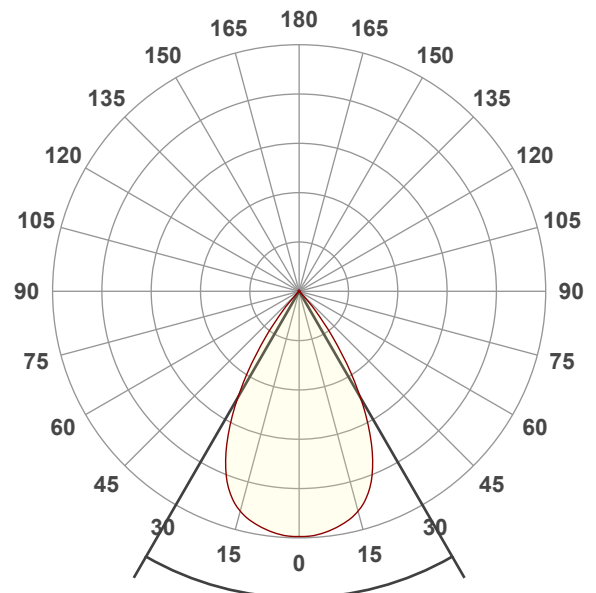
Red

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:32:24

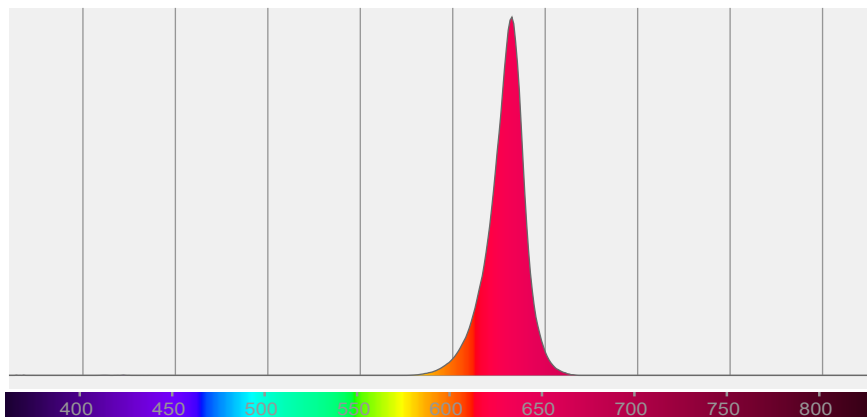


Beam angle 50%: 60°

Field angle 10%: 80,4°

Cut off angle 2.5%: 87,7°

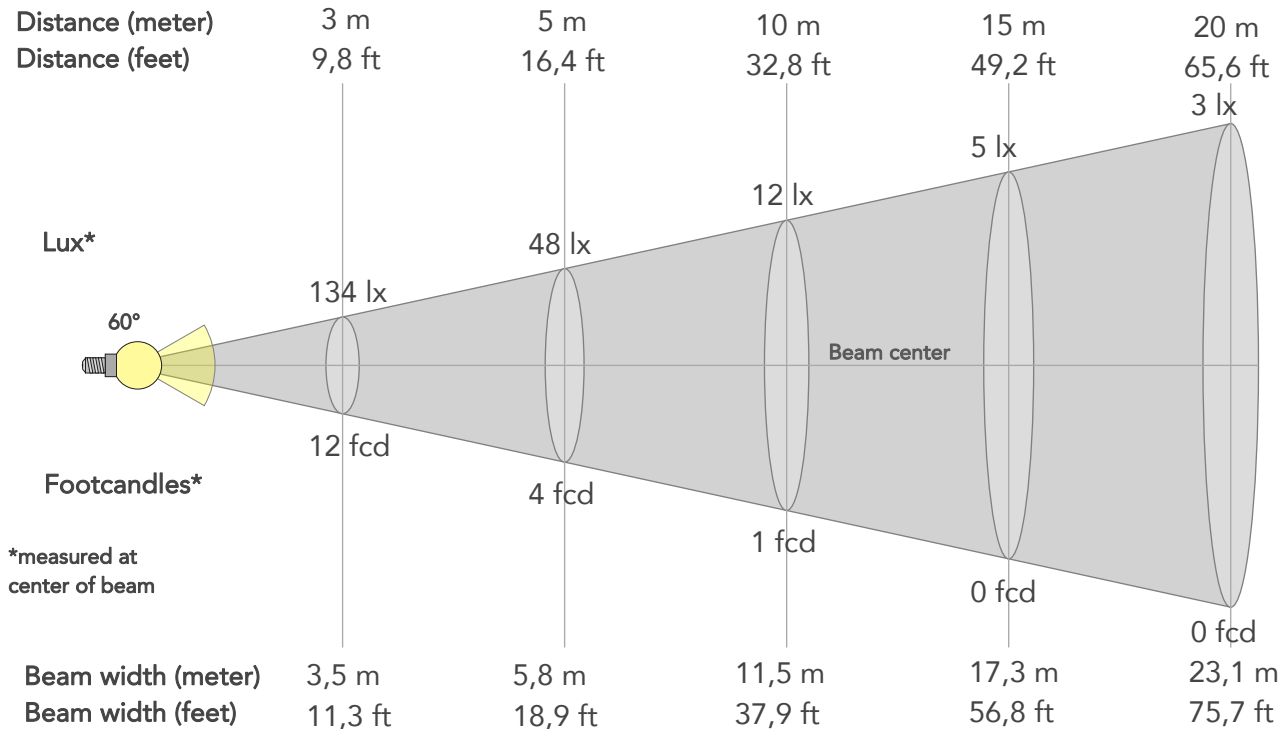
Spectra



# BEAM DETAILS



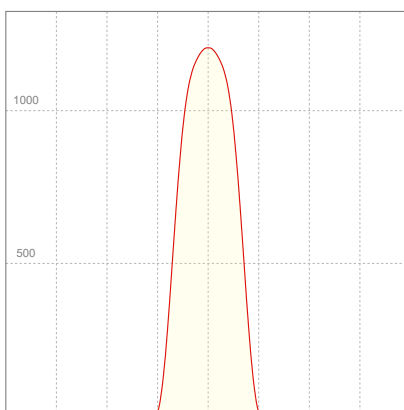
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60°	80,4°	87,7°	100,0%	99,8%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1204lx	301lx	134lx	75lx	48lx	21lx	12lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	112fcd	28fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,5m	17,3m	23,1m	28,9m	34,6m	46,2m	57,7m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	18,9ft	28,4ft	37,9ft	56,8ft	75,7ft	94,6ft	113,6ft	151,4ft	189,3ft

## LINEAR DISTRIBUTION DIAGRAM

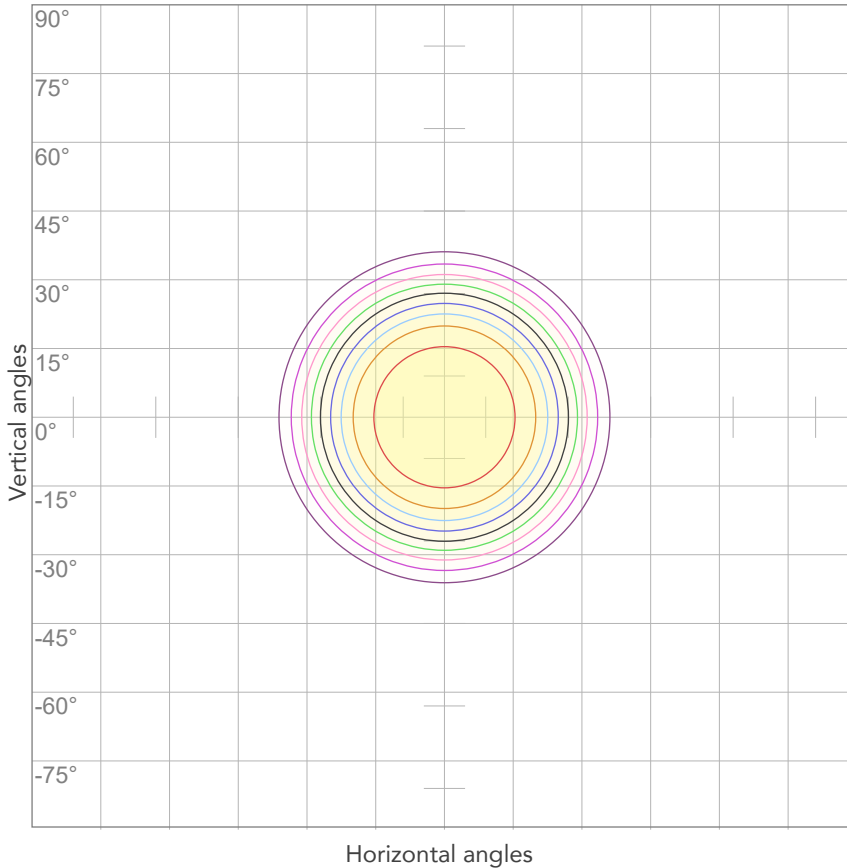


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,340A	50,6W	21lm/W

Power FC
0,66

## ISO CANDELA DIAGRAM



10%	120 cd
20%	241 cd
30%	361 cd
40%	482 cd
50%	602 cd
60%	723 cd
70%	843 cd
80%	963 cd

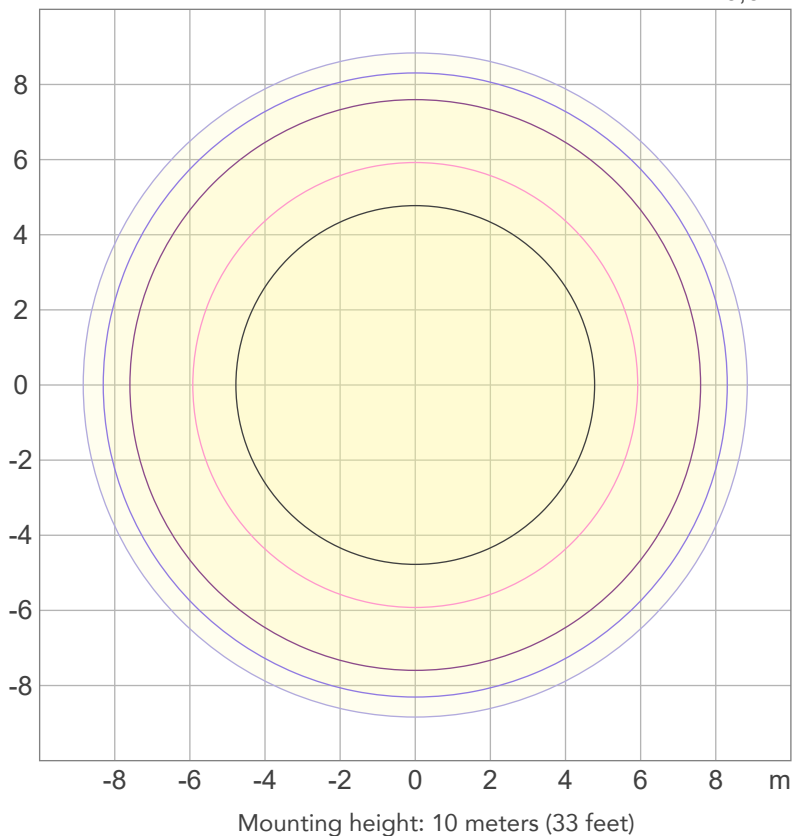
Conditions:

Number of c-planes: 2

Candela at center: 1204 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	0,361 lx
5%	0,602 lx
10%	1,20 lx
30%	3,61 lx
50%	6,02 lx

Conditions:

Number of c-planes: 2

Lux at center: 12,0 lx

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





Total lumen output:

800 lm

Peak candela output:

4050 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

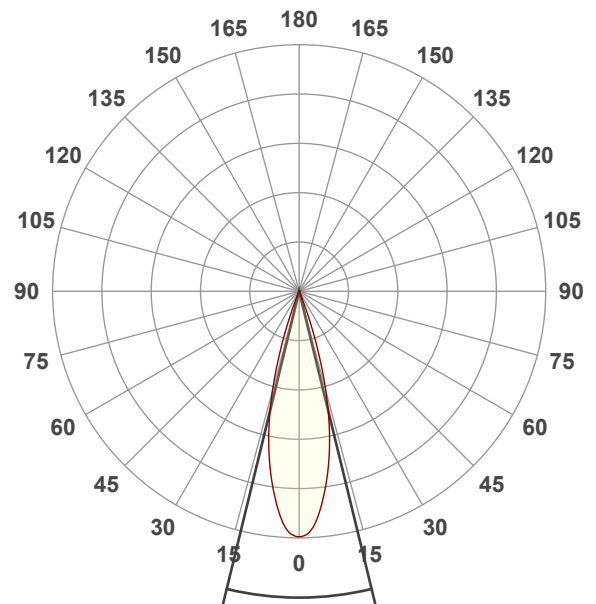
Red

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:41:12

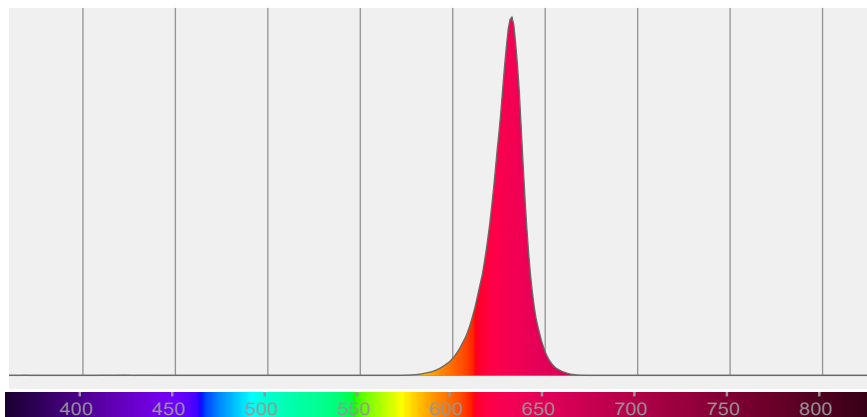


Beam angle 50%: 27,4°

Field angle 10%: 40,7°

Cut off angle 2.5%: 45,5°

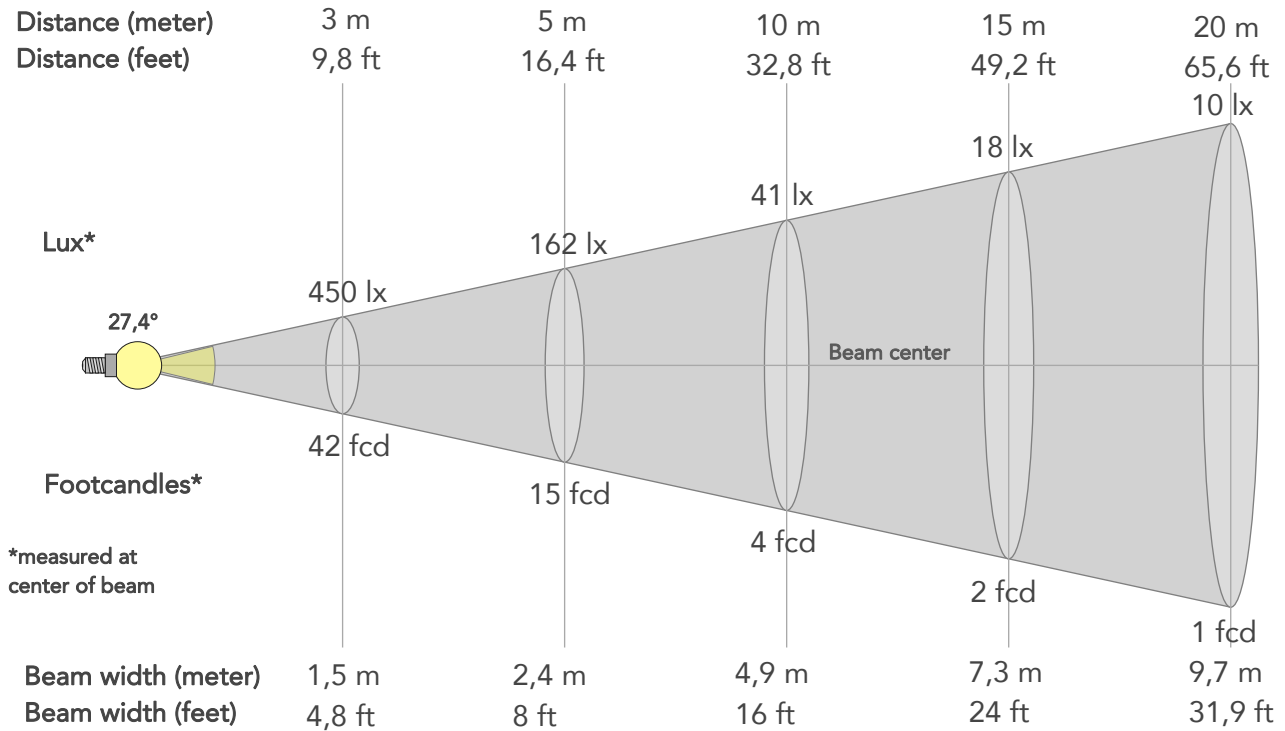
Spectra



# BEAM DETAILS



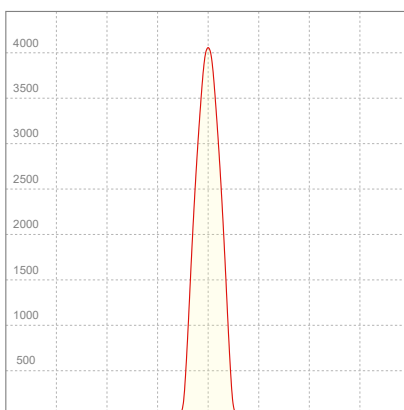
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,4°	40,7°	45,5°	100,0%	99,9%



## 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	4050lx	1013lx	450lx	253lx	162lx	72lx	41lx	18lx	10lx	6lx	5lx	3lx	2lx
Footcand.	376fcd	94fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,7m	4,9m	7,3m	9,7m	12,2m	14,6m	19,5m	24,3m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	12ft	16ft	24ft	31,9ft	39,9ft	47,9ft	63,9ft	79,8ft

## LINEAR DISTRIBUTION DIAGRAM

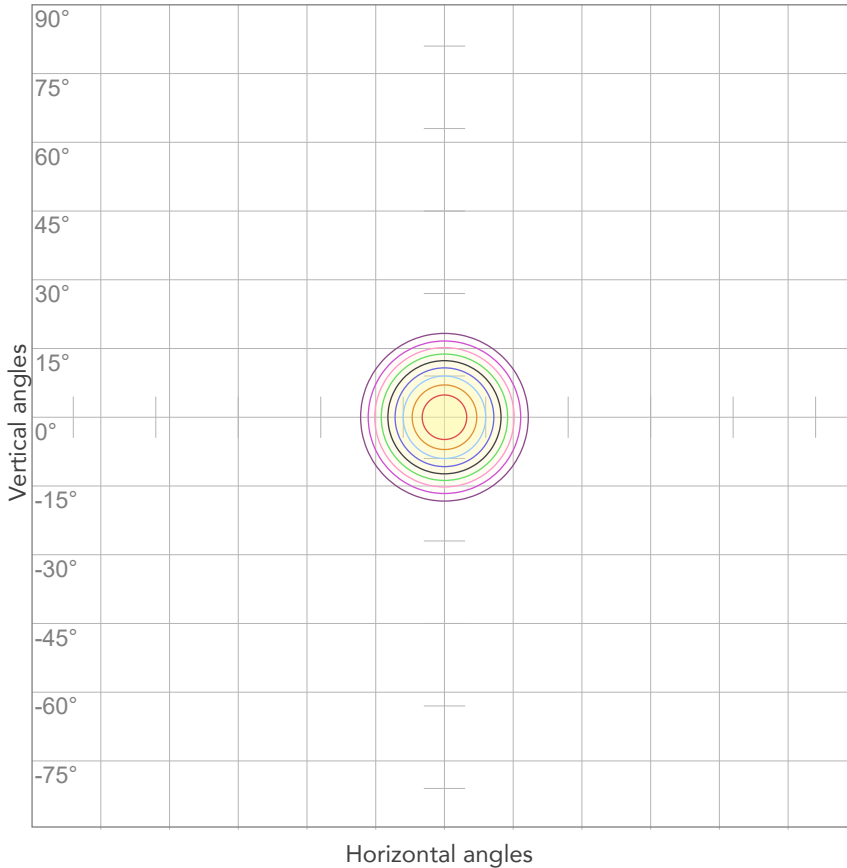


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,341A	50,5W	16lm/W

Power FC
0,65

## ISO CANDELA DIAGRAM



10%	405 cd
20%	810 cd
30%	1215 cd
40%	1620 cd
50%	2025 cd
60%	2430 cd
70%	2835 cd
80%	3240 cd

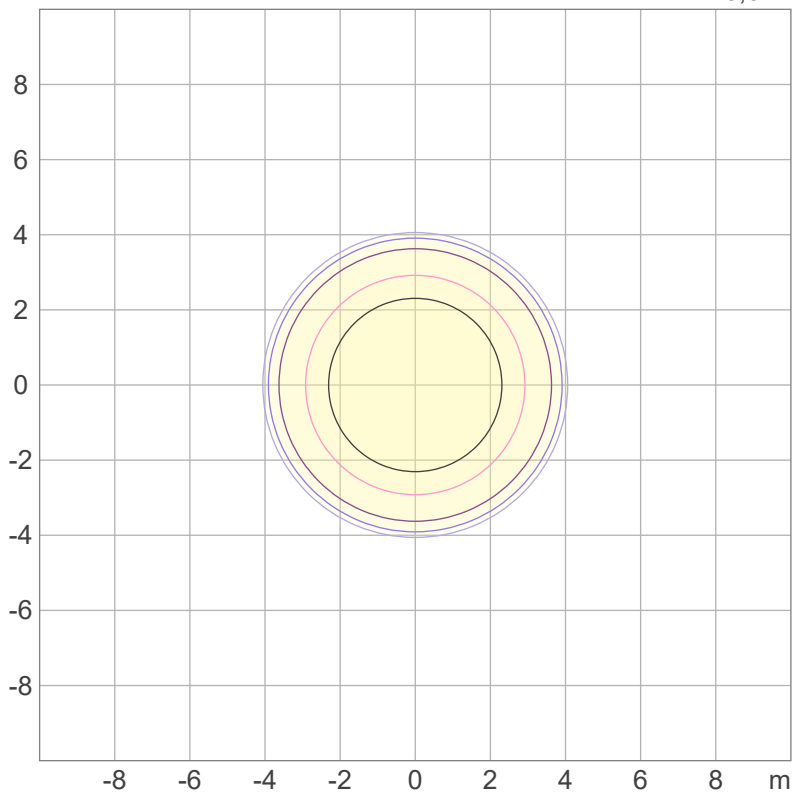
Conditions:

Number of c-planes: 2

Candela at center: 4050 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	1,22 lx
5%	2,03 lx
10%	4,05 lx
30%	12,2 lx
50%	20,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 40,5 lx

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



Total lumen output:

430 lm

Peak candela output:

15416 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

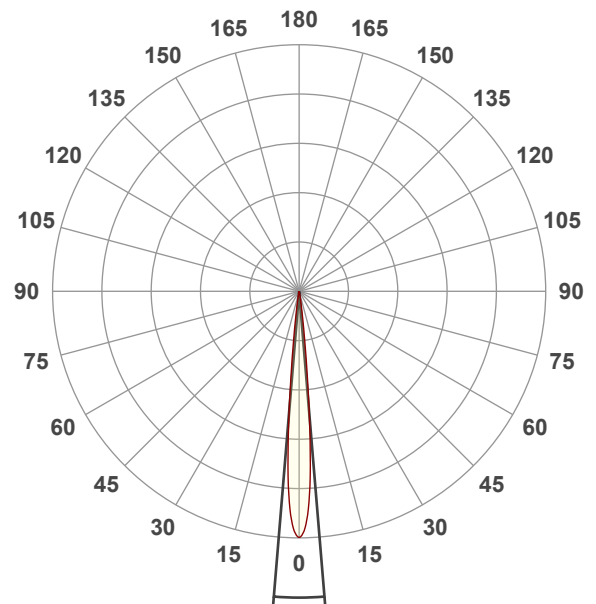
Red

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:21:33

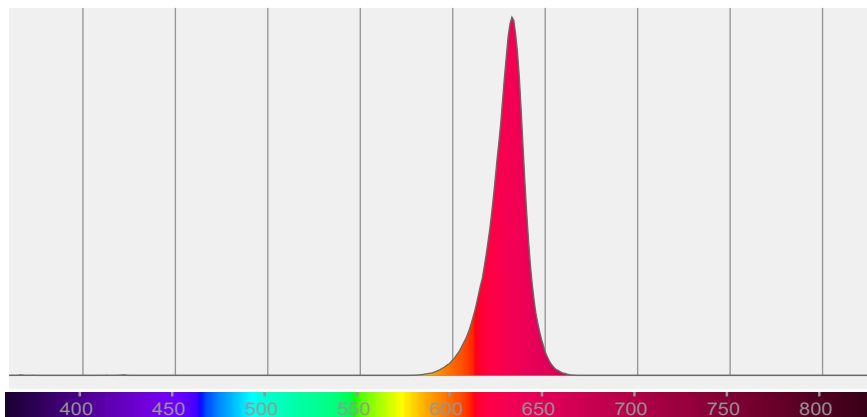


Beam angle 50%: 9,5°

Field angle 10%: 15,4°

Cut off angle 2.5%: 20°

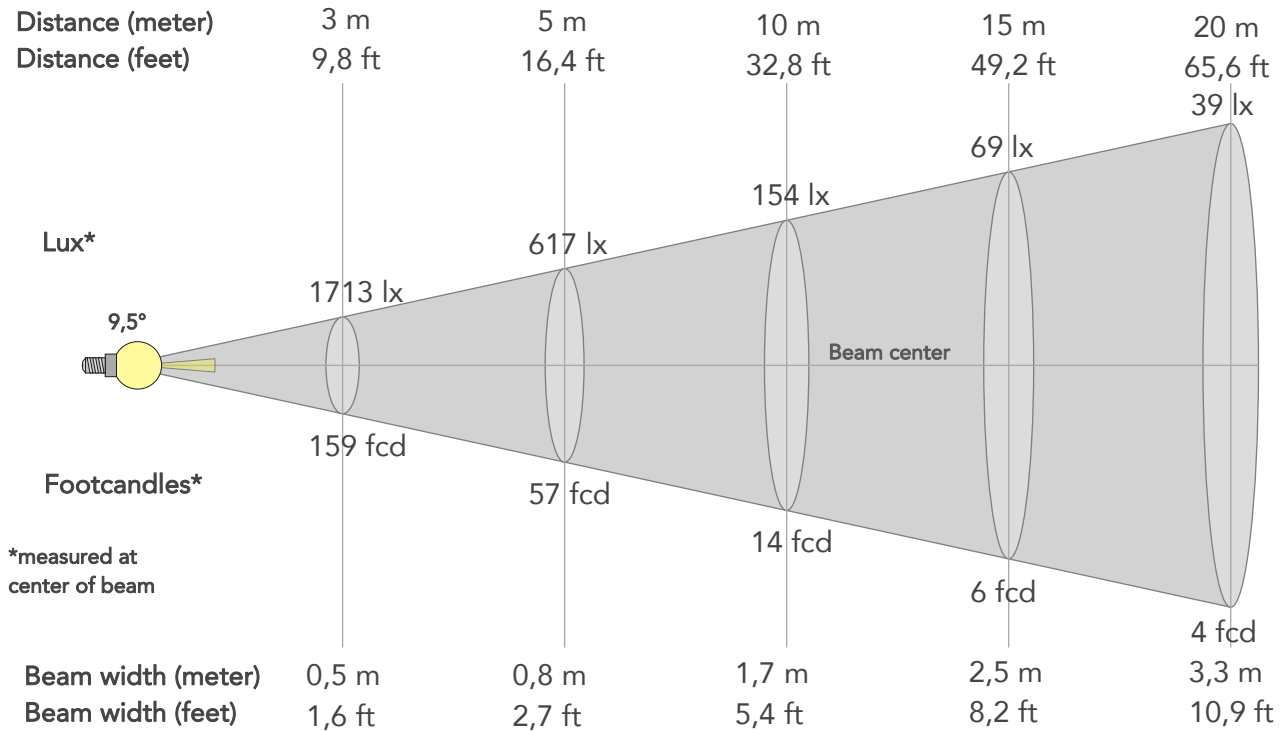
Spectra



# BEAM DETAILS



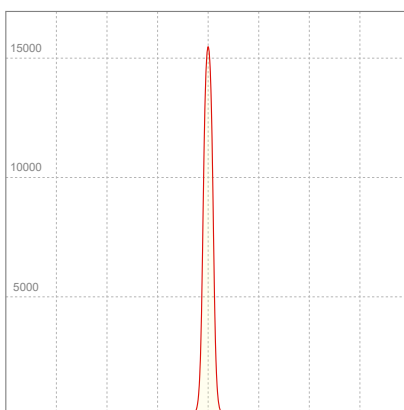
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,5°	15,4°	20°	100,0%	99,9%



## 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	15416lx	3854lx	1713lx	964lx	617lx	274lx	154lx	69lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1432fcd	358fcd	159fcd	90fcd	57fcd	25fcd	14fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,7m	2,5m	3,3m	4,1m	5m	6,6m	8,3m
Beam wid.	0,5ft	1,1ft	1,6ft	2,2ft	2,7ft	4,1ft	5,4ft	8,2ft	10,9ft	13,6ft	16,3ft	21,8ft	27,2ft

## LINEAR DISTRIBUTION DIAGRAM

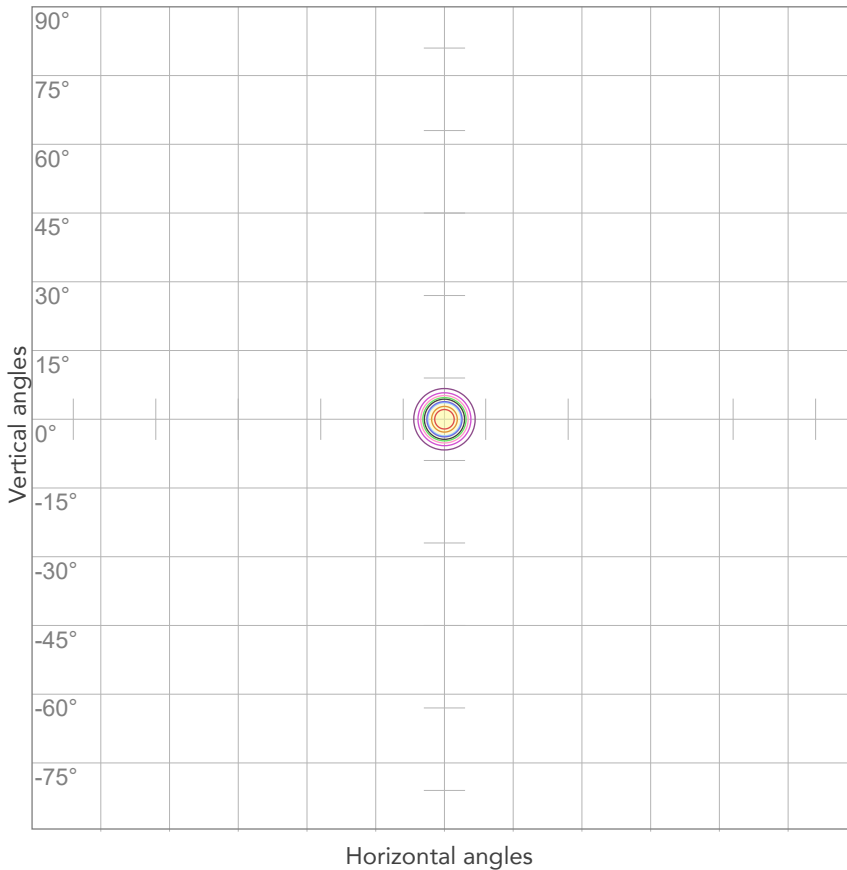


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,344A	52,7W	8lm/W

Power FC
0,68

## ISO CANDELA DIAGRAM



10%	1542 cd
20%	3083 cd
30%	4625 cd
40%	6166 cd
50%	7708 cd
60%	9250 cd
70%	10791 cd
80%	12333 cd

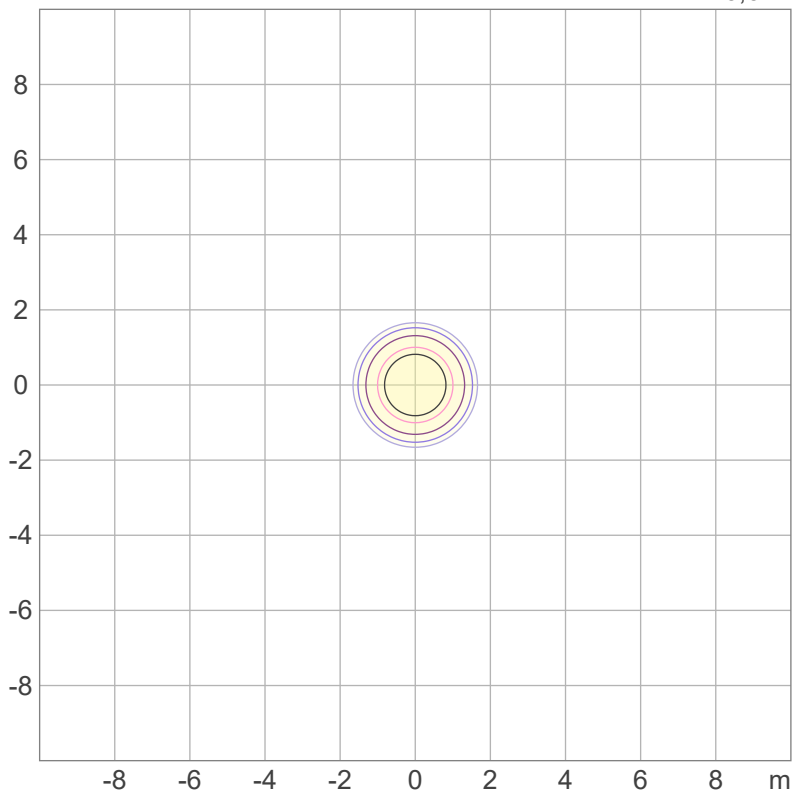
Conditions:

Number of c-planes: 2

Candela at center: 15416 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	4,62 lx
5%	7,71 lx
10%	15,4 lx
30%	46,2 lx
50%	77,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 154 lx

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



Total lumen output:

1808 lm

Peak candela output:

1951 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

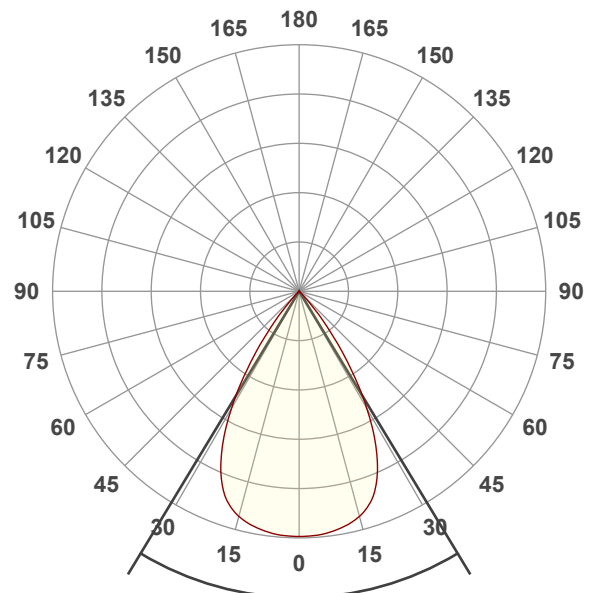
Green

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:33:40

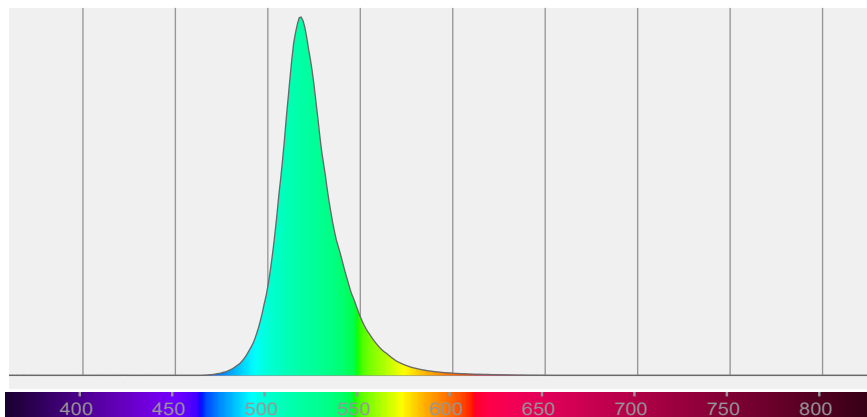


Beam angle 50%: 62,3°

Field angle 10%: 82,1°

Cut off angle 2.5%: 90°

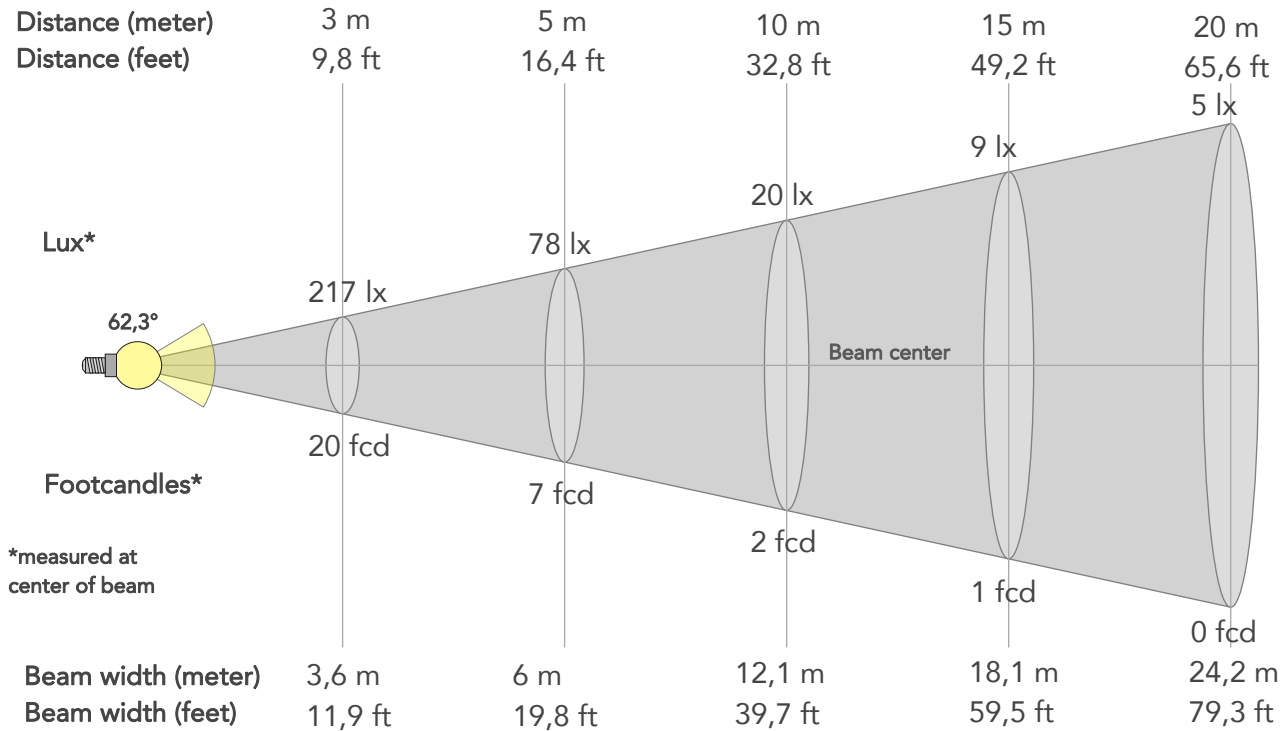
Spectra



# BEAM DETAILS



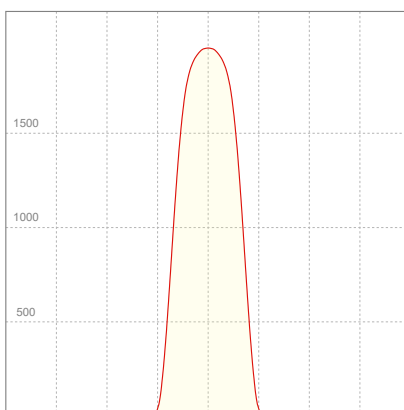
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,3°	82,1°	90°	100,0%	99,6%



## 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	1951lx	488lx	217lx	122lx	78lx	35lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	181fcd	45fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,8m	6m	9,1m	12,1m	18,1m	24,2m	30,2m	36,3m	48,4m	60,5m
Beam wid.	4ft	8ft	11,9ft	15,8ft	19,8ft	29,8ft	39,7ft	59,5ft	79,3ft	99,2ft	119ft	158,7ft	198,3ft

## LINEAR DISTRIBUTION DIAGRAM



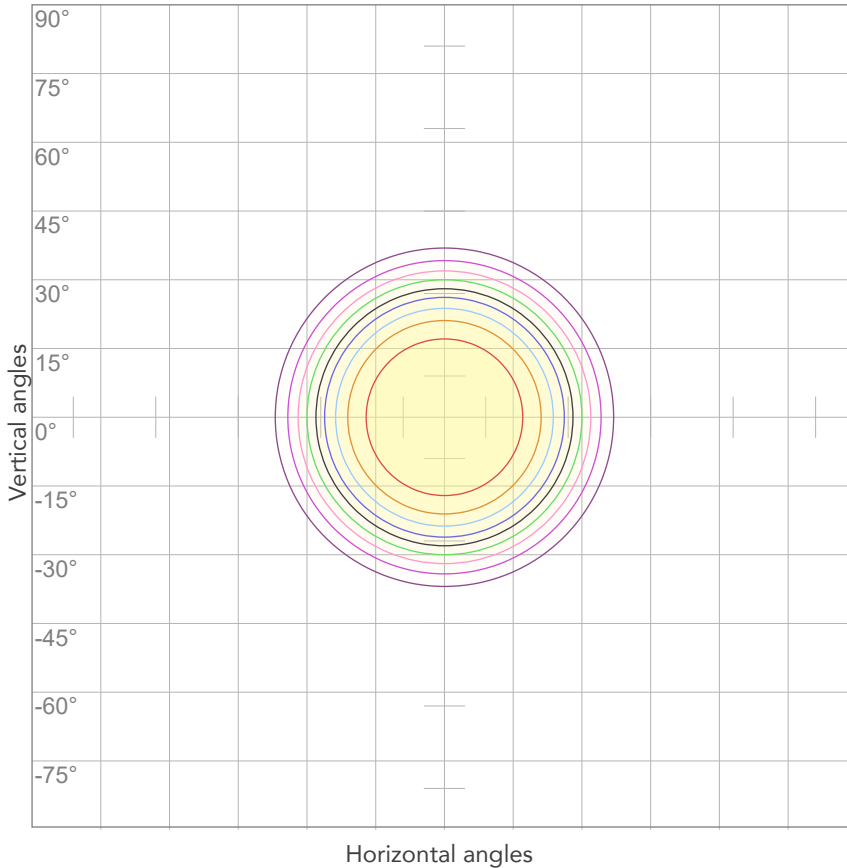
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,352A	56,8W	32lm/W

Power FC
0,71



## ISO CANDELA DIAGRAM



10%	195 cd
20%	390 cd
30%	585 cd
40%	780 cd
50%	975 cd
60%	1171 cd
70%	1366 cd
80%	1561 cd

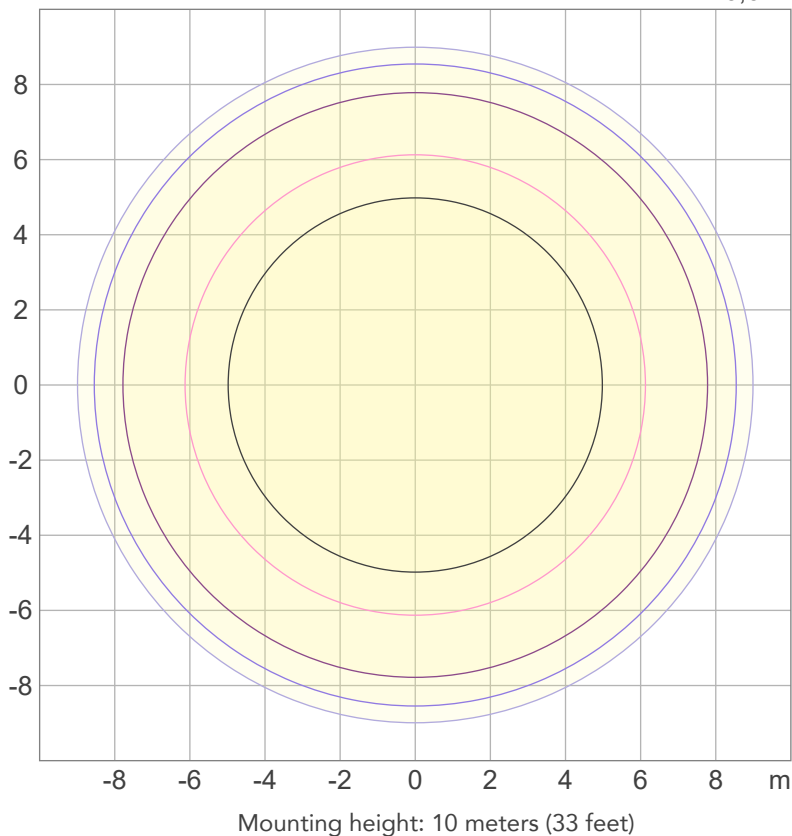
Conditions:

Number of c-planes: 2

Candela at center: 1951 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	0,585 lx
5%	0,975 lx
10%	1,95 lx
30%	5,85 lx
50%	9,75 lx

Conditions:

Number of c-planes: 2

Lux at center: 19,5 lx

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



Total lumen output:

1368 lm

Peak candela output:

6731 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

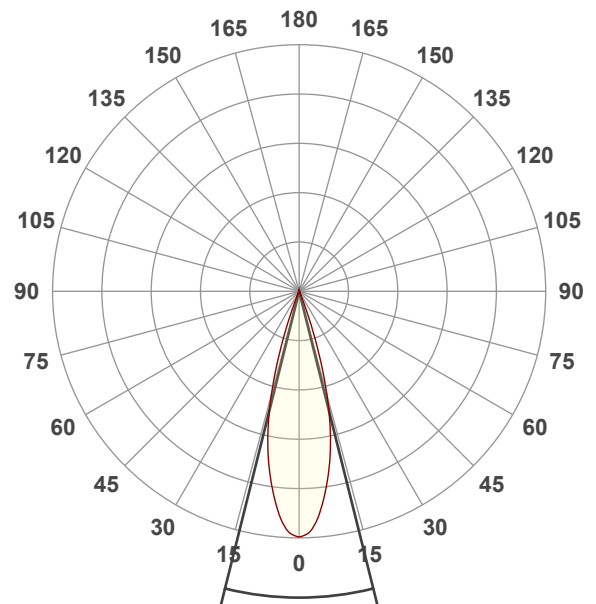
Green

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:42:27

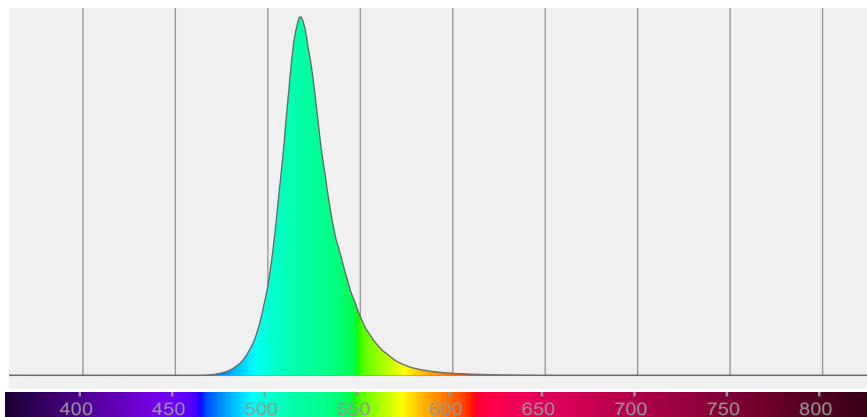


Beam angle 50%: 28°

Field angle 10%: 40,9°

Cut off angle 2.5%: 46°

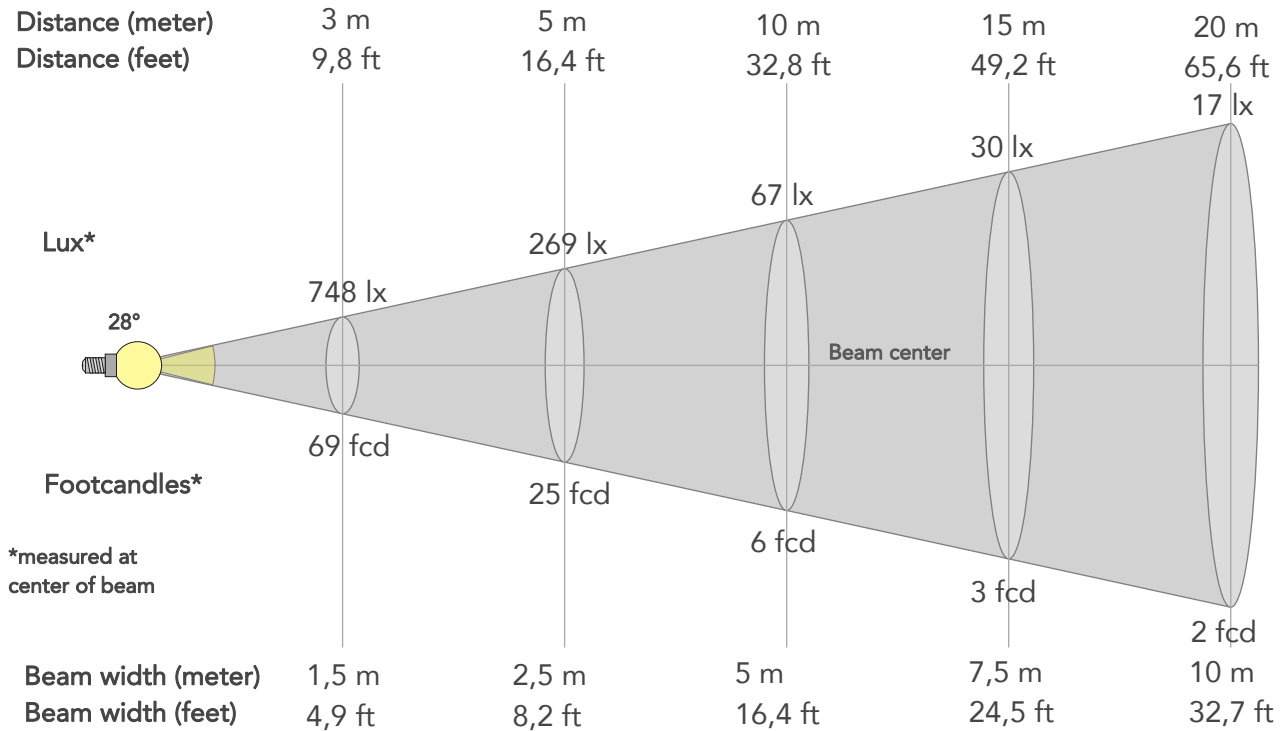
Spectra



# BEAM DETAILS



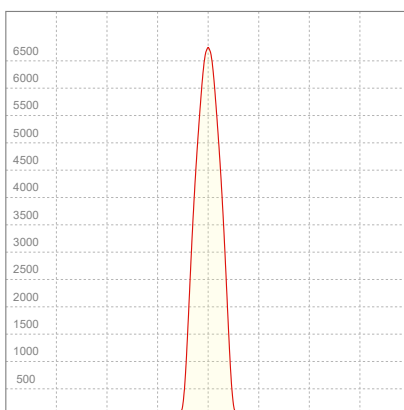
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28°	40,9°	46°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	6731lx	1683lx	748lx	421lx	269lx	120lx	67lx	30lx	17lx	11lx	7lx	4lx	3lx
Footcand.	625fcd	156fcd	69fcd	39fcd	25fcd	11fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,7m	5m	7,5m	10m	12,5m	15m	20m	24,9m
Beam wid.	1,6ft	3,3ft	4,9ft	6,5ft	8,2ft	12,3ft	16,4ft	24,5ft	32,7ft	40,9ft	49,1ft	65,5ft	81,8ft

## LINEAR DISTRIBUTION DIAGRAM

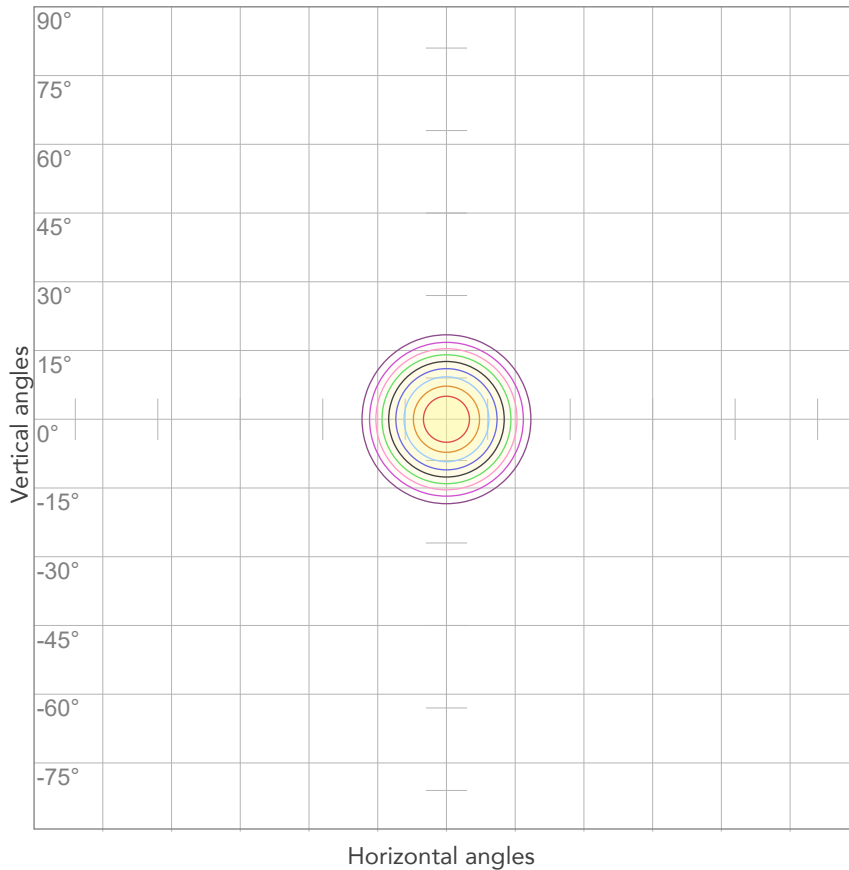


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,351A	56,7W	24lm/W

Power FC
0,71

## ISO CANDELA DIAGRAM



10%	673 cd
20%	1346 cd
30%	2019 cd
40%	2692 cd
50%	3365 cd
60%	4038 cd
70%	4711 cd
80%	5384 cd

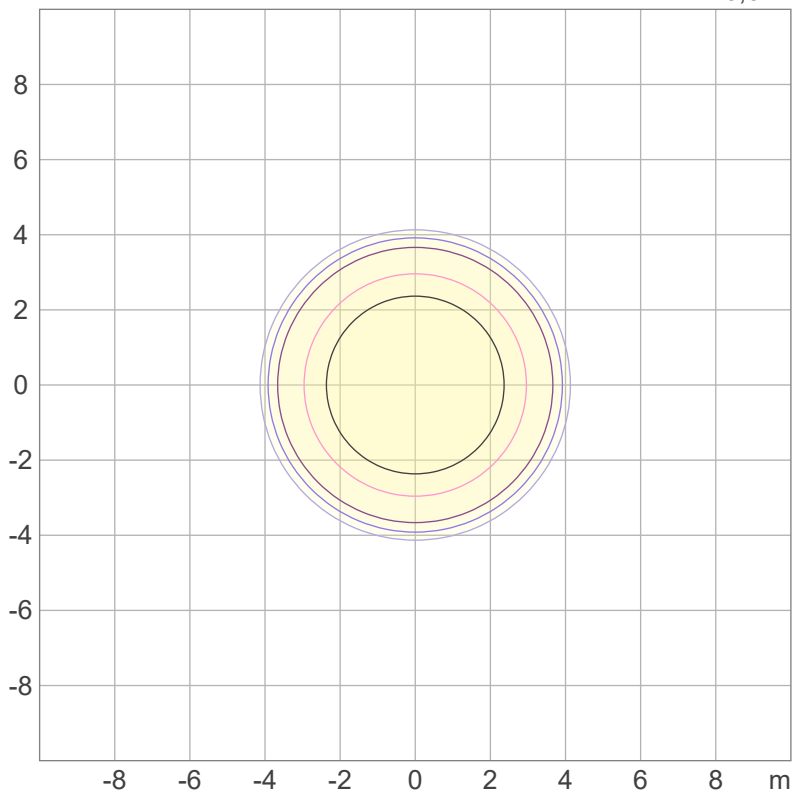
Conditions:

Number of c-planes: 2

Candela at center: 6731 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	2,02 lx
5%	3,37 lx
10%	6,73 lx
30%	20,2 lx
50%	33,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 67,3 lx

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



Total lumen output:

715 lm

Peak candela output:

24923 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

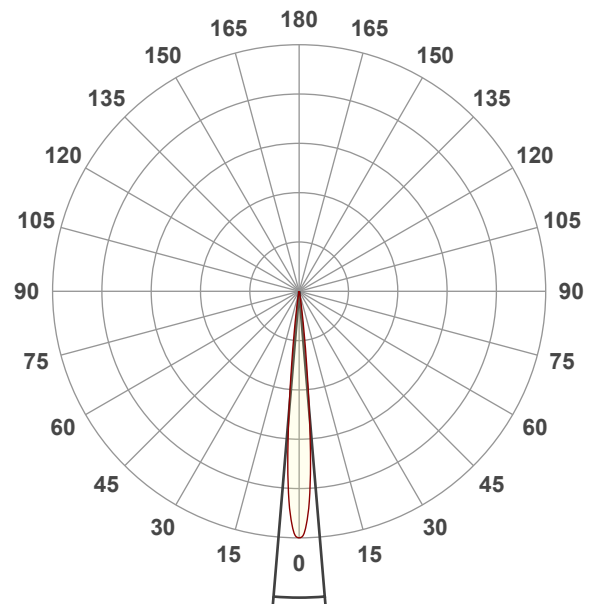
Green

Operator:

Salvatore Giglio

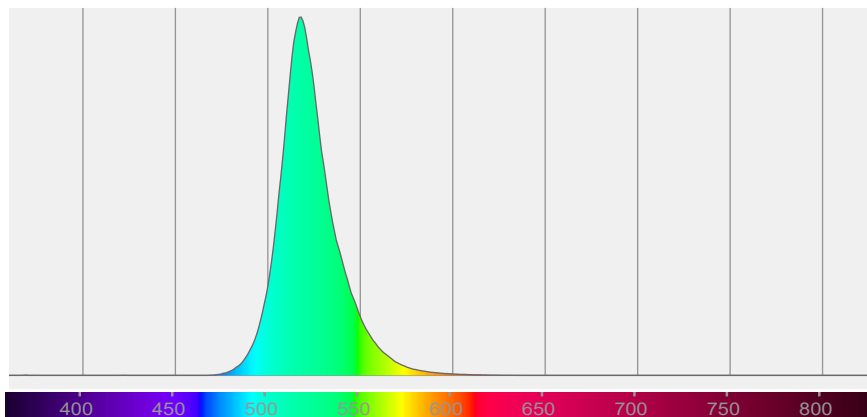
Date and time:

18/09/2023 12:22:51



Beam angle 50%: 9,6°  
Field angle 10%: 15,5°  
Cut off angle 2.5%: 20,3°

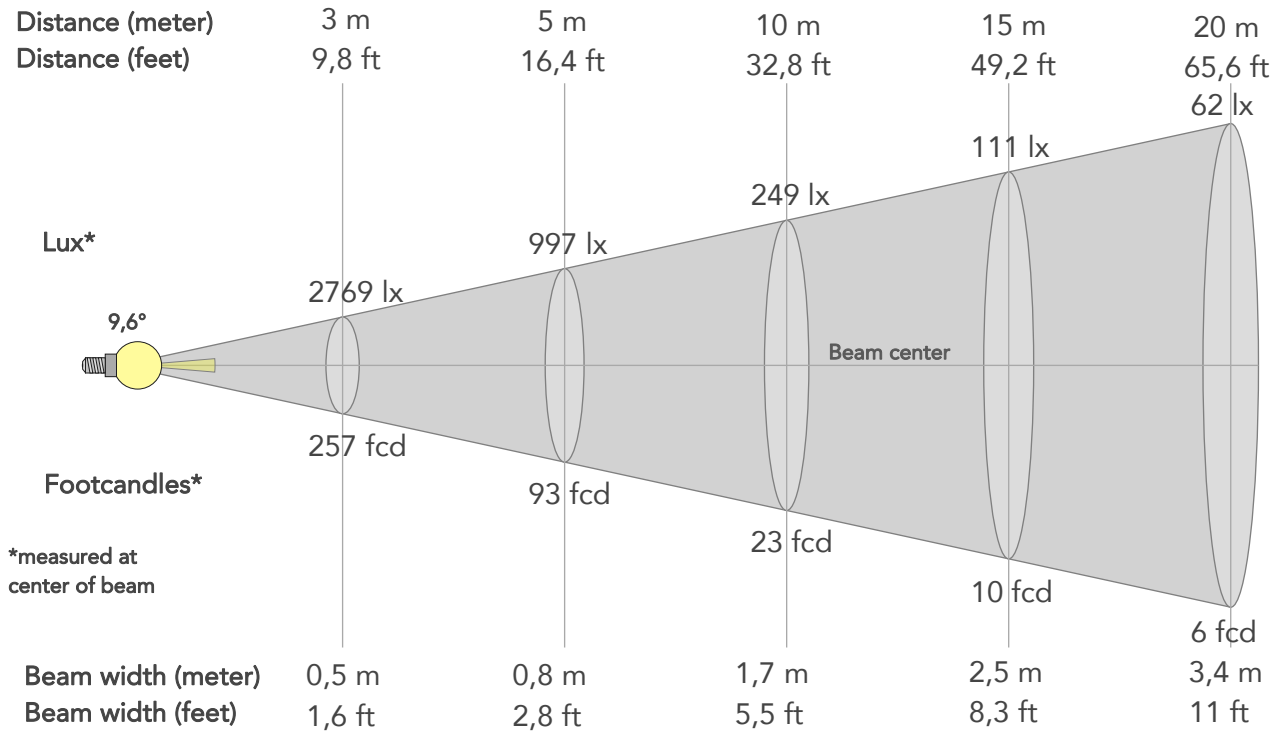
Spectra



# BEAM DETAILS



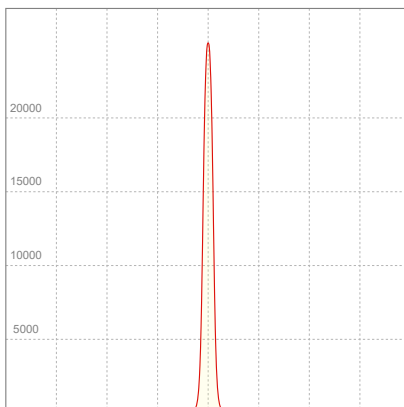
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,6°	15,5°	20,3°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	24923lx	6231lx	2769lx	1558lx	997lx	443lx	249lx	111lx	62lx	40lx	28lx	16lx	10lx
Footcand.	2315fcd	579fcd	257fcd	145fcd	93fcd	41fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,3m	1,7m	2,5m	3,4m	4,2m	5m	6,7m	8,4m
Beam wid.	0,6ft	1,1ft	1,6ft	2,2ft	2,8ft	4,1ft	5,5ft	8,3ft	11ft	13,8ft	16,5ft	22ft	27,5ft

## LINEAR DISTRIBUTION DIAGRAM

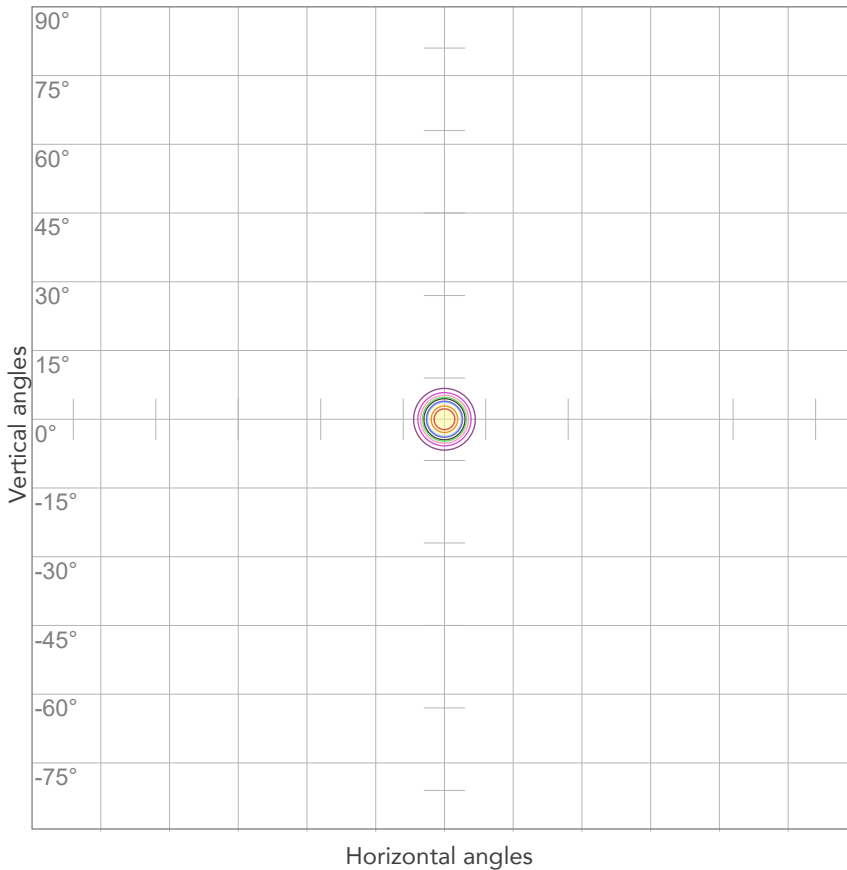


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,352A	56,7W	13lm/W

Power FC
0,71

## ISO CANDELA DIAGRAM



10%	2492 cd
20%	4985 cd
30%	7477 cd
40%	9969 cd
50%	12462 cd
60%	14954 cd
70%	17446 cd
80%	19939 cd

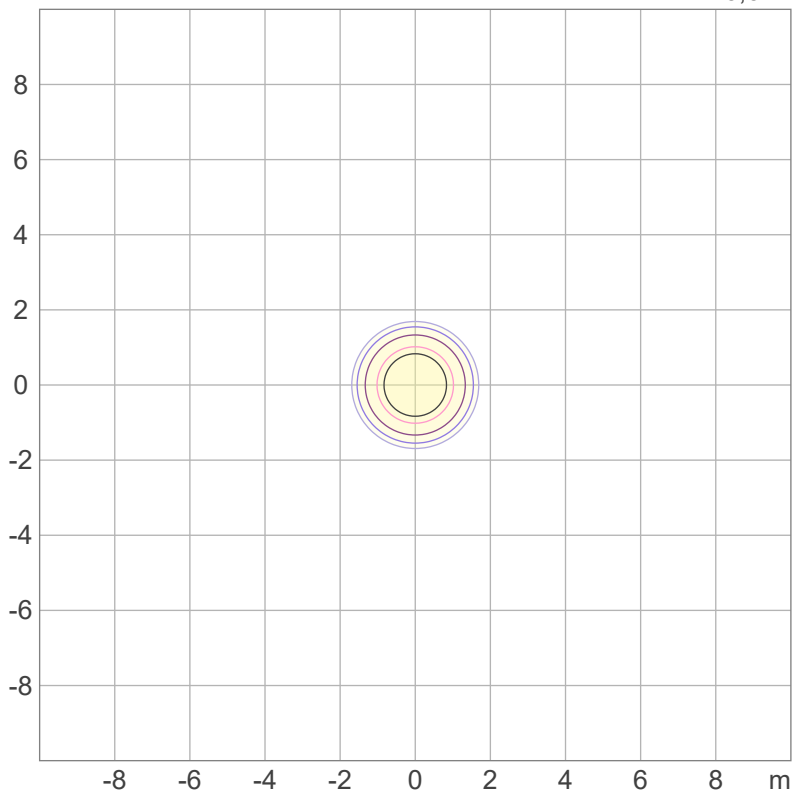
Conditions:

Number of c-planes: 2

Candela at center: 24923 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	7,48 lx
5%	12,5 lx
10%	24,9 lx
30%	74,8 lx
50%	125 lx

Conditions:

Number of c-planes: 2

Lux at center: 249 lx

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



Total lumen output:

285 lm

Peak candela output:

312 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

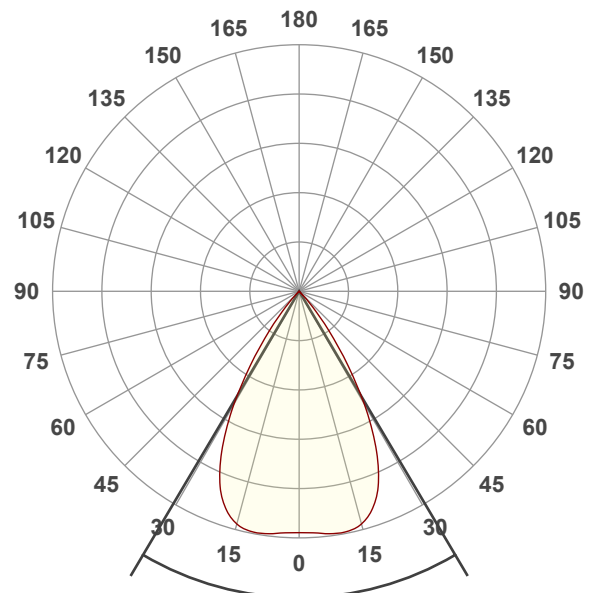
Blue

Operator:

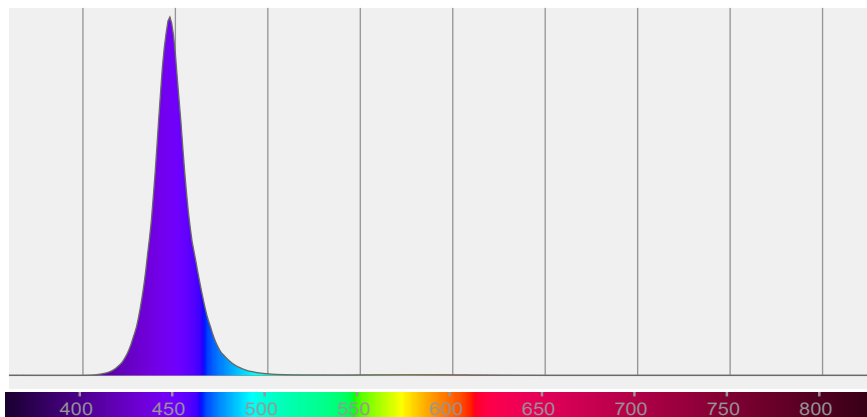
Salvatore Giglio

Date and time:

18/09/2023 12:35:01



Spectra

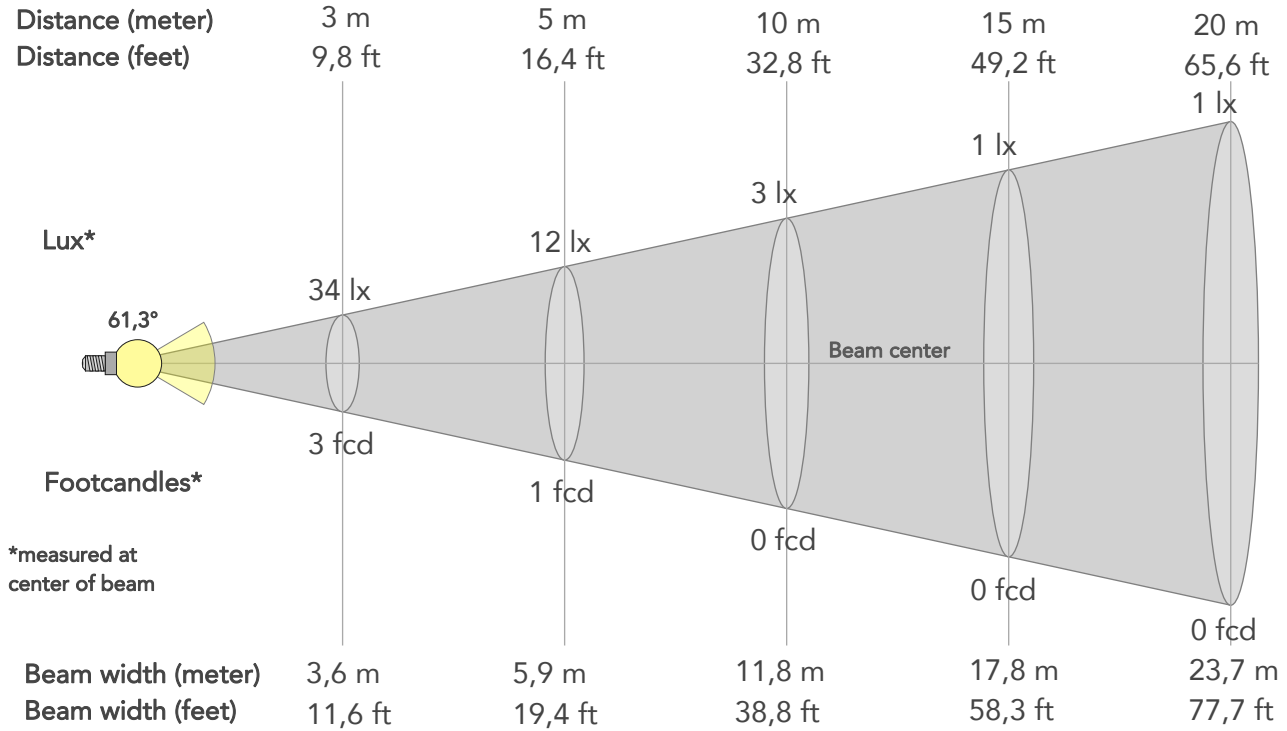




# BEAM DETAILS



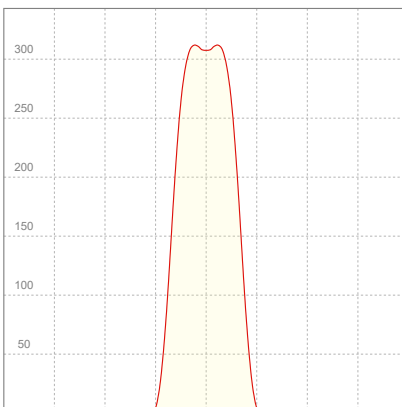
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61,3°	80,5°	88,2°	100,0%	99,6%



## 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	308lx	77lx	34lx	19lx	12lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	29fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,7m	5,9m	8,9m	11,8m	17,8m	23,7m	29,6m	35,5m	47,4m	59,2m
Beam wid.	3,9ft	7,8ft	11,6ft	15,5ft	19,4ft	29,1ft	38,8ft	58,3ft	77,7ft	97,1ft	116,5ft	155,4ft	194,2ft

## LINEAR DISTRIBUTION DIAGRAM

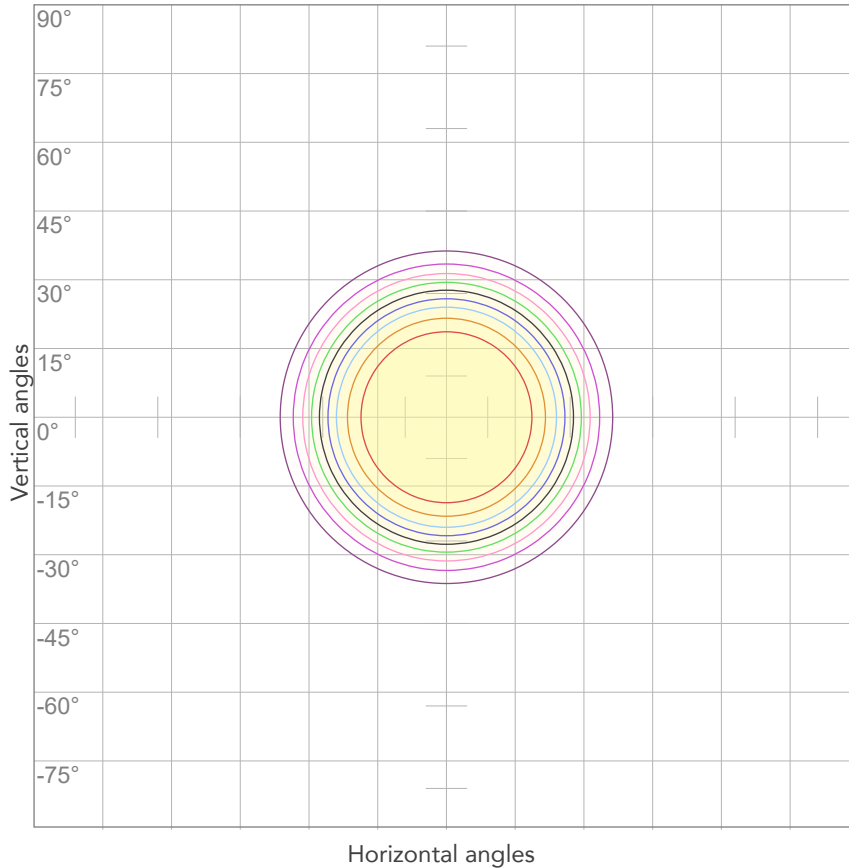


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,348A	54,8W	5lm/W

Power FC
0,69

## ISO CANDELA DIAGRAM



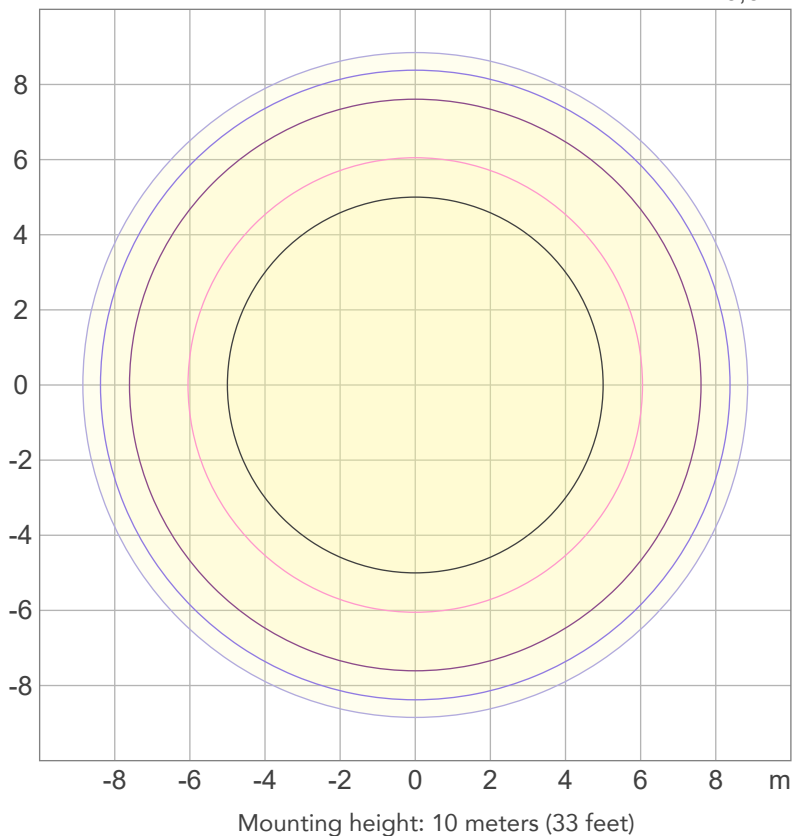
10%	31 cd
20%	62 cd
30%	92 cd
40%	123 cd
50%	154 cd
60%	185 cd
70%	215 cd
80%	246 cd

Conditions:

Number of c-planes: 2  
Candela at center: 308 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	92,3m lx
5%	0,154 lx
10%	0,308 lx
30%	0,923 lx
50%	1,54 lx

Conditions:

Number of c-planes: 2  
Lux at center: 3,08 lx

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



Total lumen output:

213 lm

Peak candela output:

1073 cd

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Med Zoom

Target:

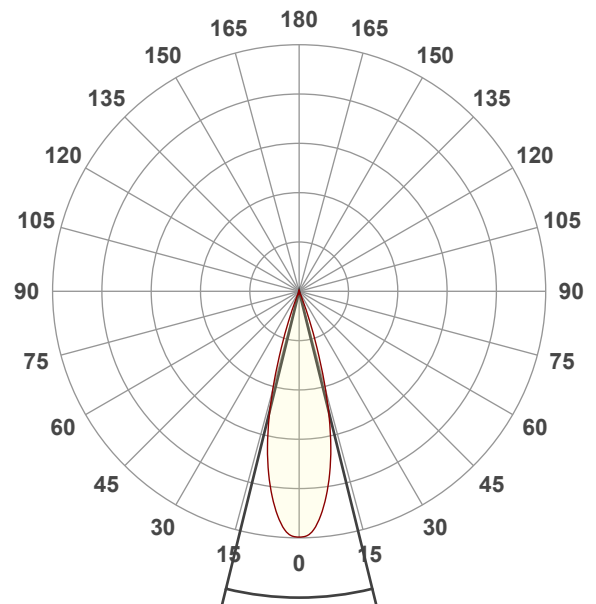
Blue

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:43:40

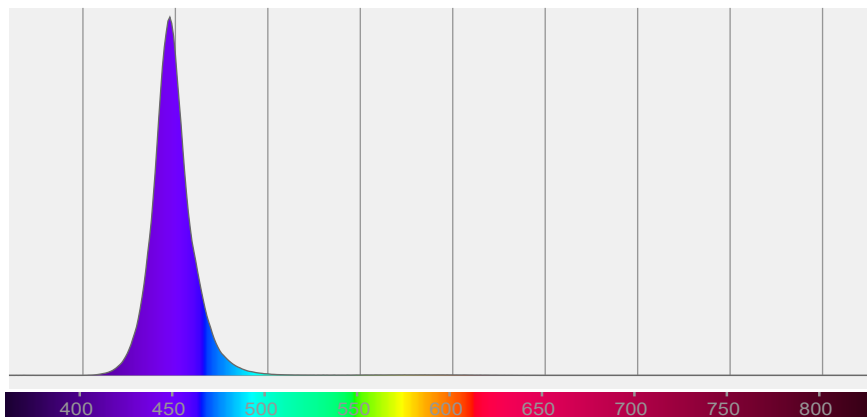


Beam angle 50%: 27,6°

Field angle 10%: 40,4°

Cut off angle 2.5%: 45,6°

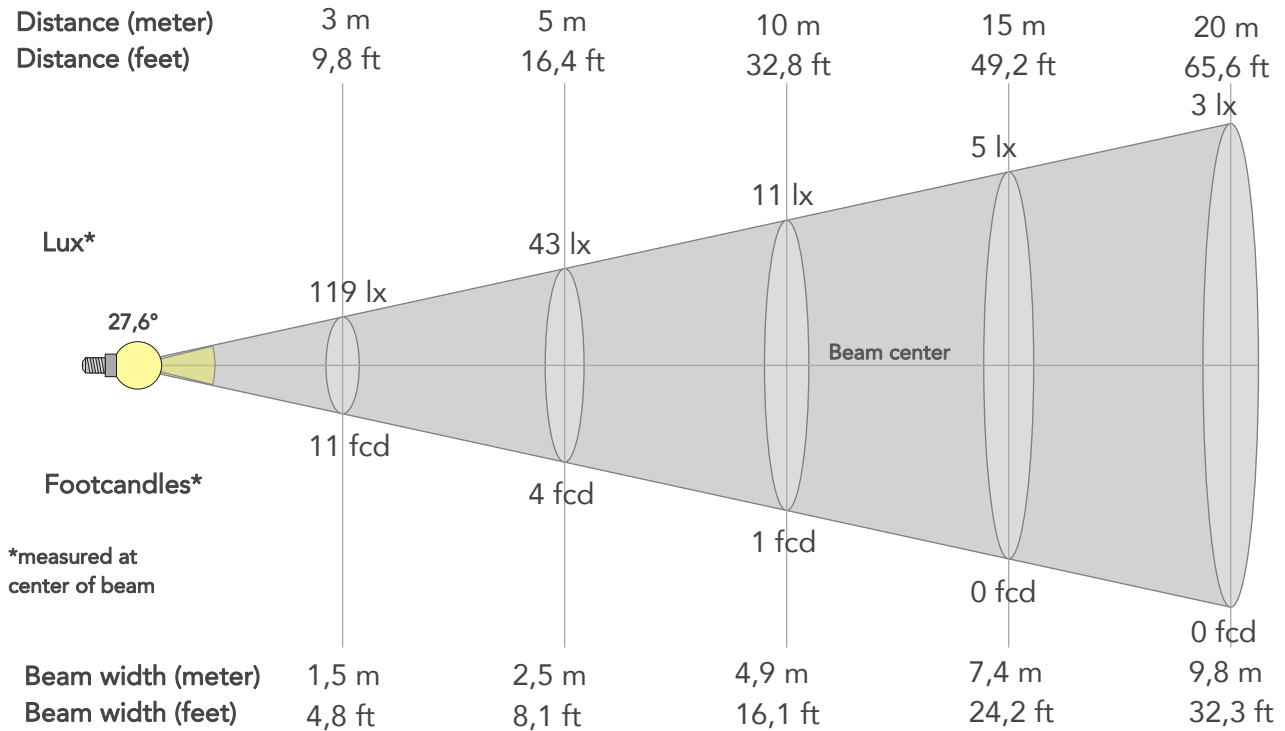
Spectra



# BEAM DETAILS



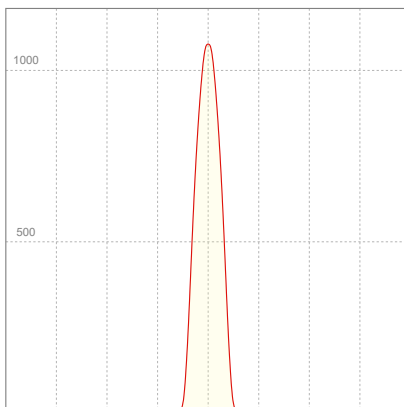
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,6°	40,4°	45,6°	100,0%	99,9%



## 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	1073lx	268lx	119lx	67lx	43lx	19lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	100fcd	25fcd	11fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,7m	4,9m	7,4m	9,8m	12,3m	14,8m	19,7m	24,6m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8,1ft	12,1ft	16,1ft	24,2ft	32,3ft	40,3ft	48,4ft	64,5ft	80,7ft

## LINEAR DISTRIBUTION DIAGRAM

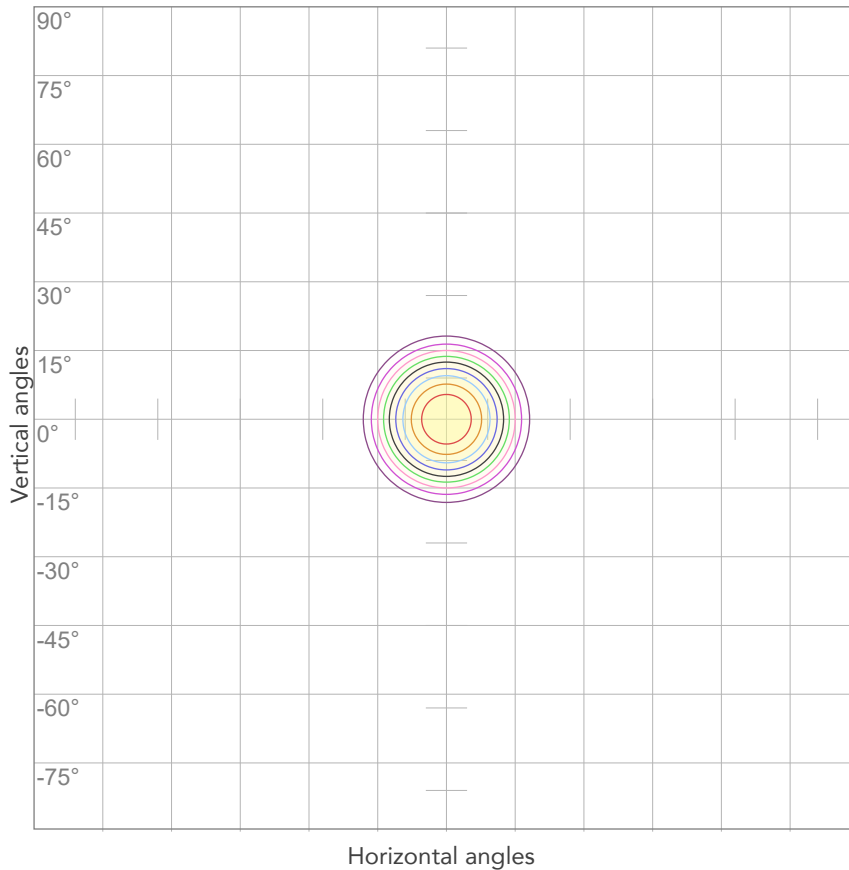


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,348A	55,0W	4lm/W

Power FC
0,7

## ISO CANDELA DIAGRAM



10%	107 cd
20%	215 cd
30%	322 cd
40%	429 cd
50%	537 cd
60%	644 cd
70%	751 cd
80%	859 cd

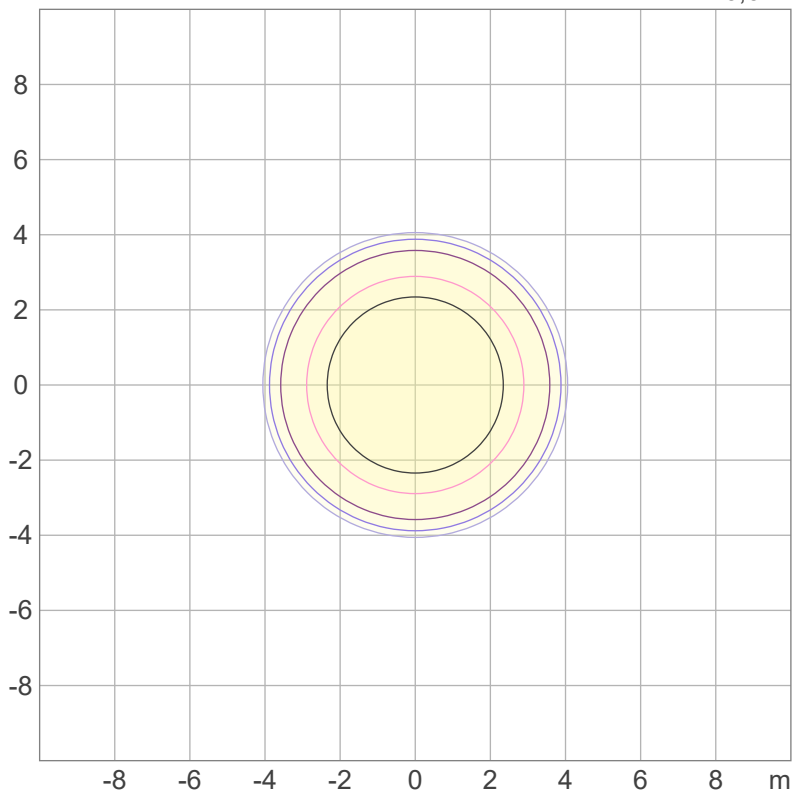
Conditions:

Number of c-planes: 2

Candela at center: 1073 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	0,322 lx
5%	0,537 lx
10%	1,07 lx
30%	3,22 lx
50%	5,37 lx

Conditions:

Number of c-planes: 2

Lux at center: 10,7 lx

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



Total lumen output:

115 lm

Peak candela output:

4013 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

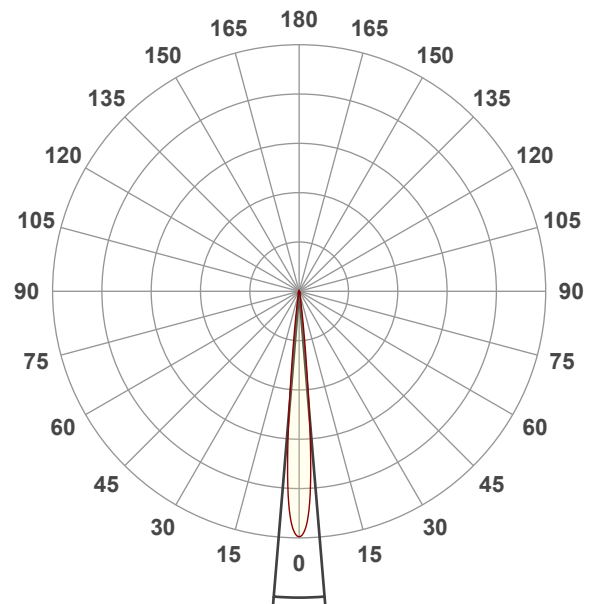
Blue

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:24:24

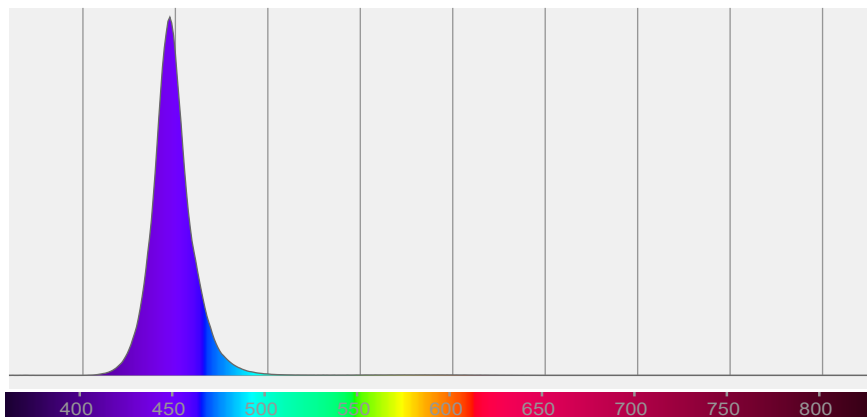


Beam angle 50%: 9,5°

Field angle 10%: 15,1°

Cut off angle 2.5%: 20,1°

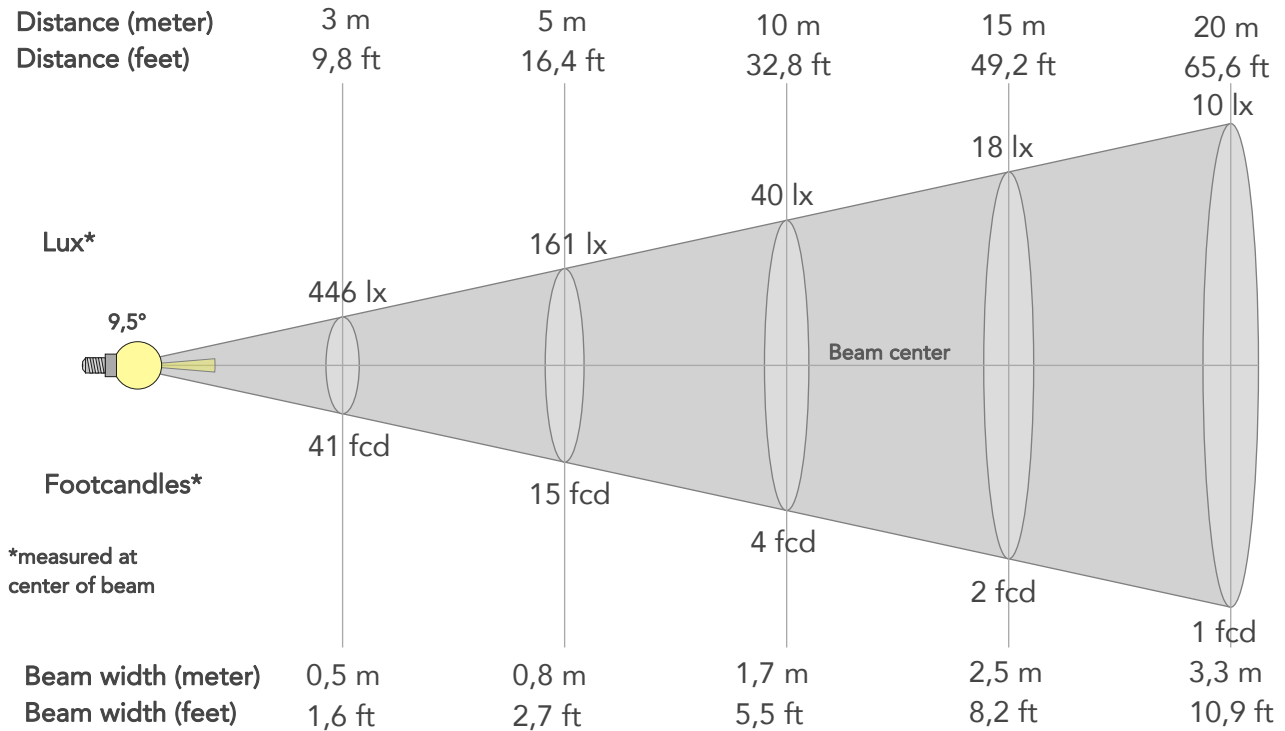
Spectra



# BEAM DETAILS



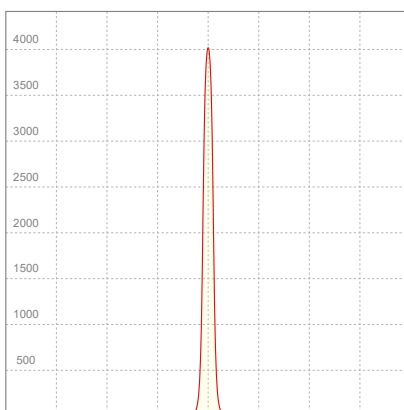
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,5°	15,1°	20,1°	100,0%	99,9%



## 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	4013lx	1003lx	446lx	251lx	161lx	71lx	40lx	18lx	10lx	6lx	4lx	3lx	2lx
Footcand.	373fcd	93fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,7m	2,5m	3,3m	4,2m	5m	6,7m	8,3m
Beam wid.	0,5ft	1,1ft	1,6ft	2,2ft	2,7ft	4,1ft	5,5ft	8,2ft	10,9ft	13,7ft	16,4ft	21,8ft	27,3ft

## LINEAR DISTRIBUTION DIAGRAM

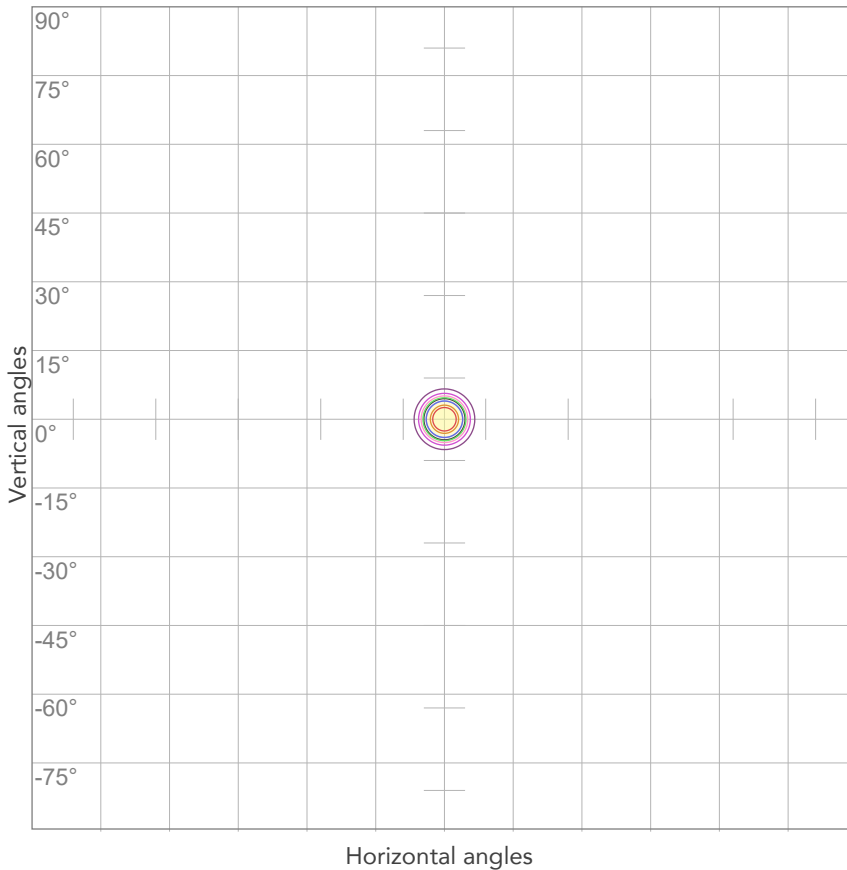


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,348A	54,8W	2lm/W

Power FC
0,69

## ISO CANDELA DIAGRAM



10%	401 cd
20%	803 cd
30%	1204 cd
40%	1605 cd
50%	2007 cd
60%	2408 cd
70%	2809 cd
80%	3211 cd

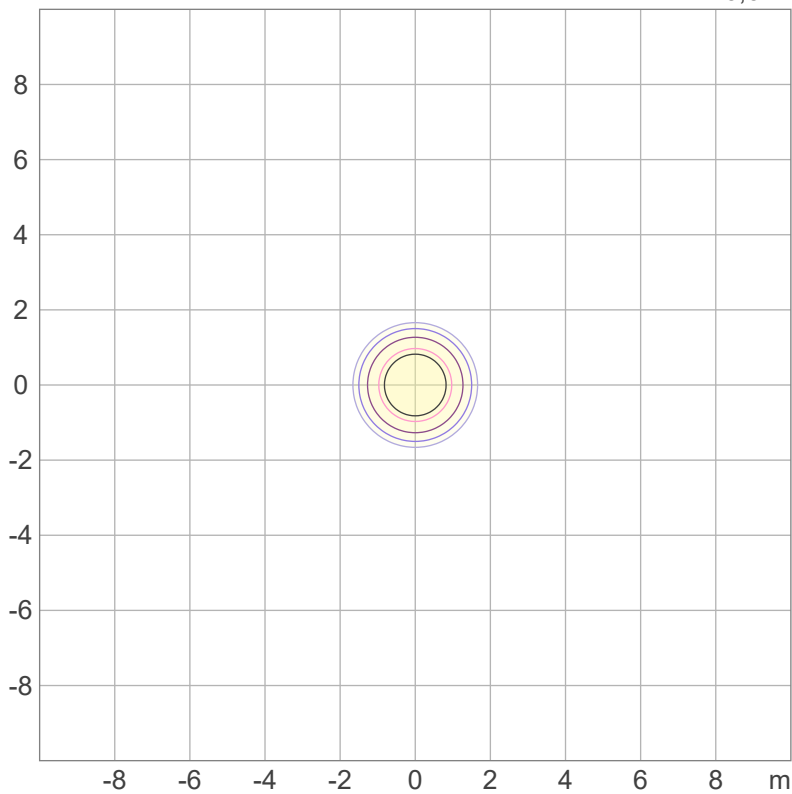
Conditions:

Number of c-planes: 2

Candela at center: 4013 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	1,20 lx
5%	2,01 lx
10%	4,01 lx
30%	12,0 lx
50%	20,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 40,1 lx

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





Total lumen output:

394 lm

Peak candela output:

420 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

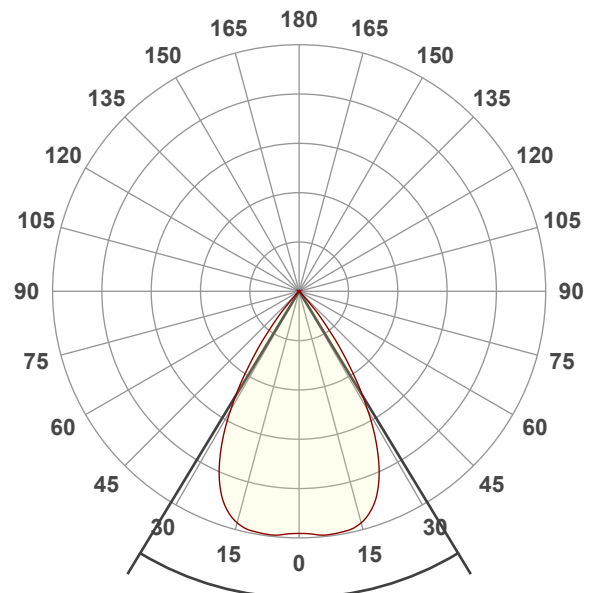
Cyan

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:36:23

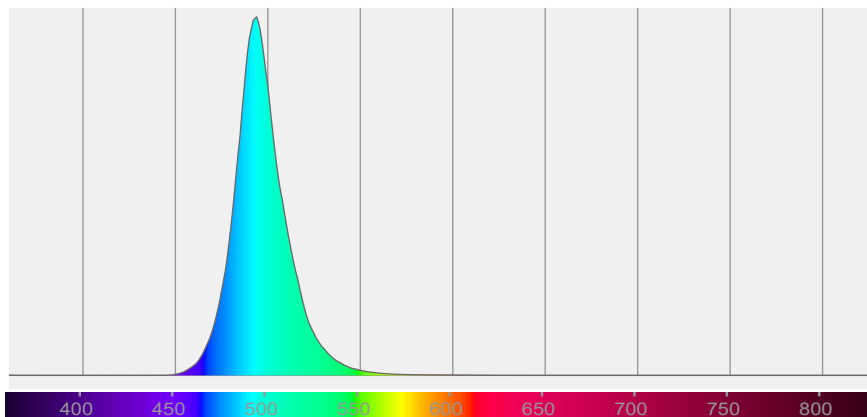


Beam angle 50%: 62,5°

Field angle 10%: 81,6°

Cut off angle 2.5%: 88,7°

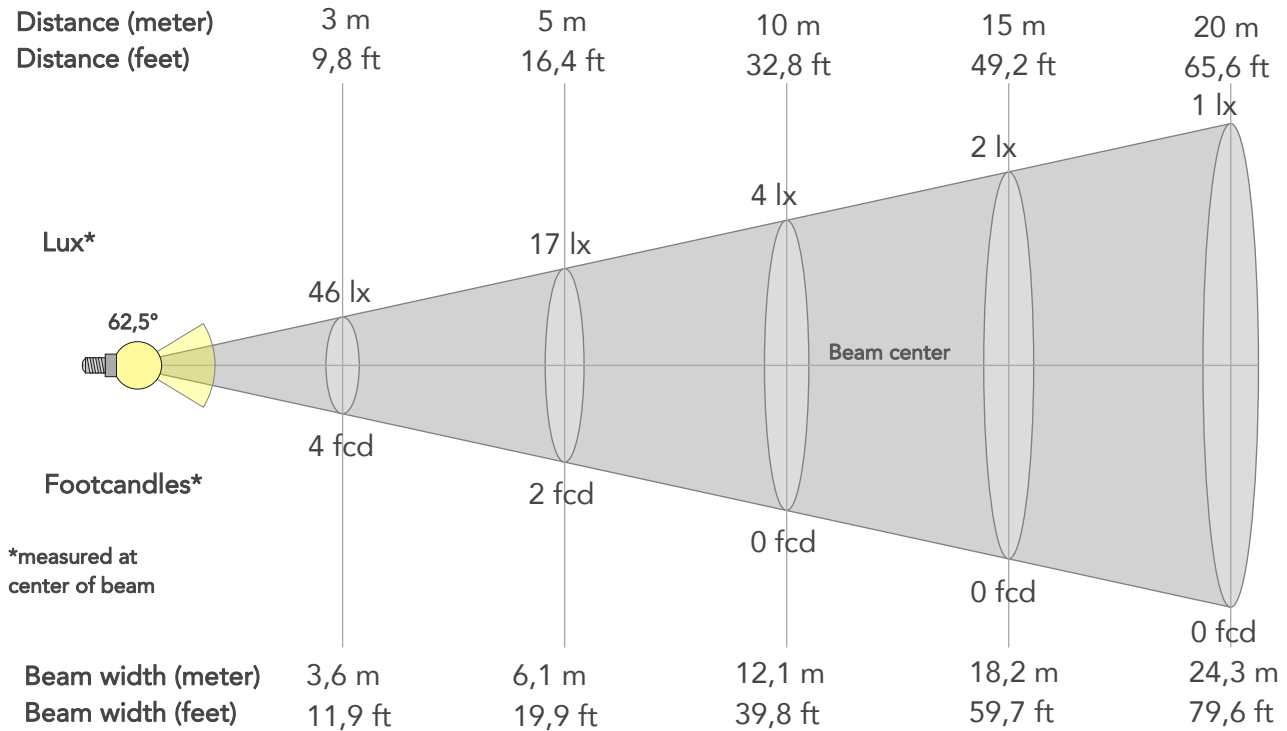
Spectra



# BEAM DETAILS



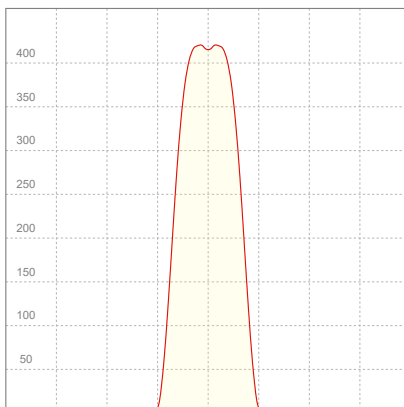
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,5°	81,6°	88,7°	100,0%	99,8%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	416lx	104lx	46lx	26lx	17lx	7lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx
Footcand.	39fcd	10fcd	4fcd	2fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,2m	2,4m	3,6m	4,9m	6,1m	9,1m	12,1m	18,2m	24,3m	30,3m	36,4m	48,6m	60,7m
Beam wid.	4ft	8ft	11,9ft	15,9ft	19,9ft	29,9ft	39,8ft	59,7ft	79,6ft	99,5ft	119,4ft	159,3ft	199,1ft

## LINEAR DISTRIBUTION DIAGRAM

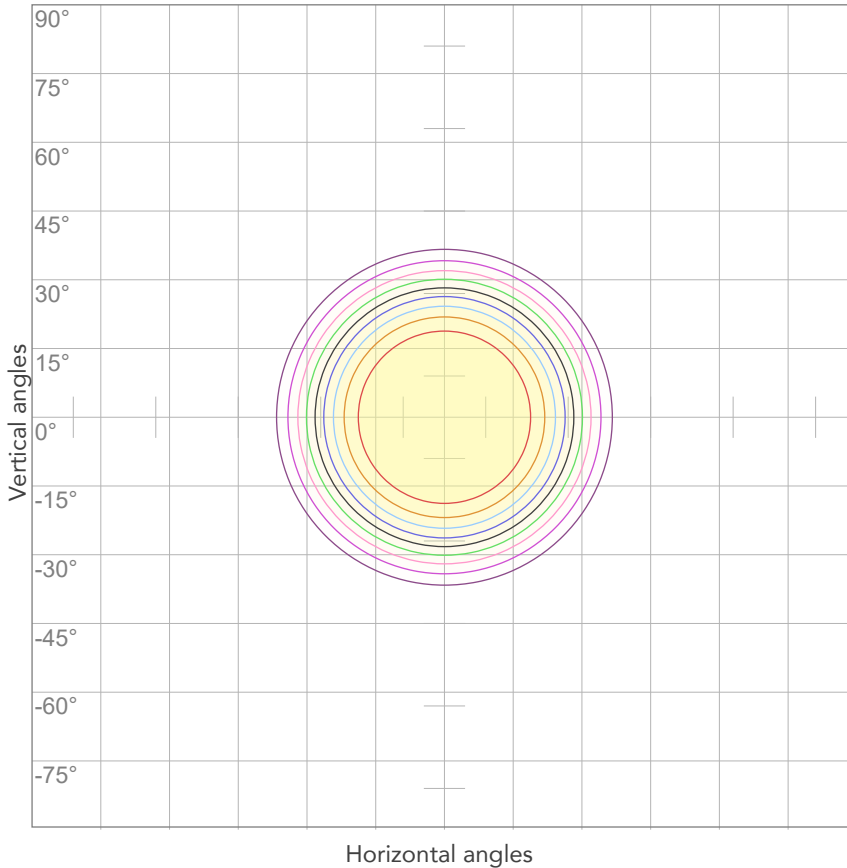


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,358A	29,1W	14lm/W

Power FC
0,36

## ISO CANDELA DIAGRAM



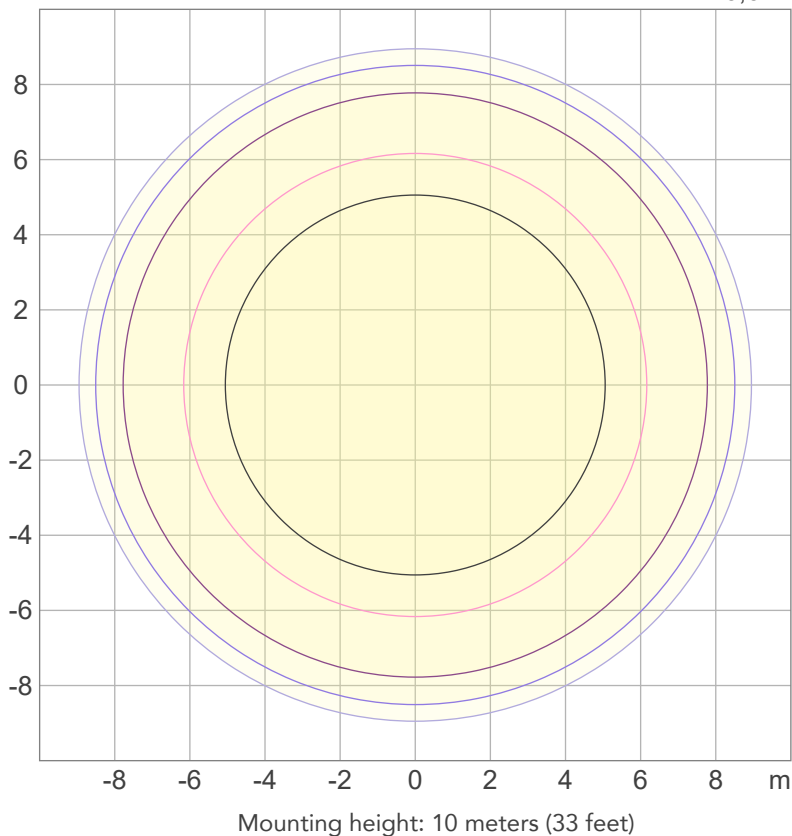
10%	42 cd
20%	83 cd
30%	125 cd
40%	166 cd
50%	208 cd
60%	250 cd
70%	291 cd
80%	333 cd

Conditions:

Number of c-planes: 2  
Candela at center: 416 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	0,125 lx
5%	0,208 lx
10%	0,416 lx
30%	1,25 lx
50%	2,08 lx

Conditions:

Number of c-planes: 2  
Lux at center: 4,16 lx

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



Total lumen output:

297 lm

Peak candela output:

1440 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

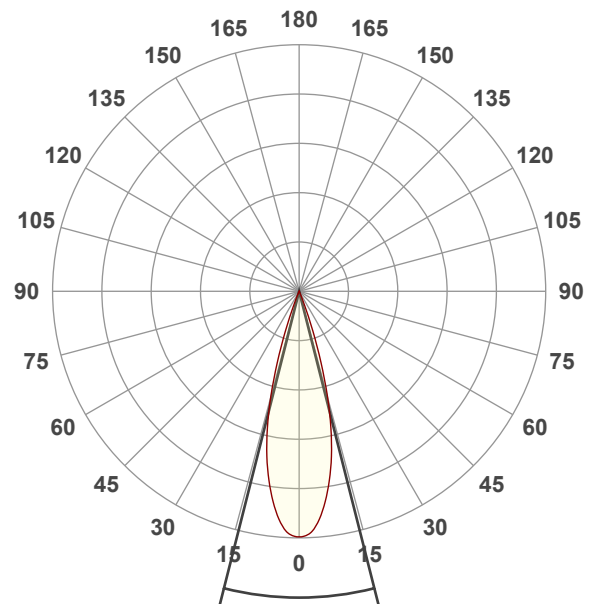
Cyan

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:45:07

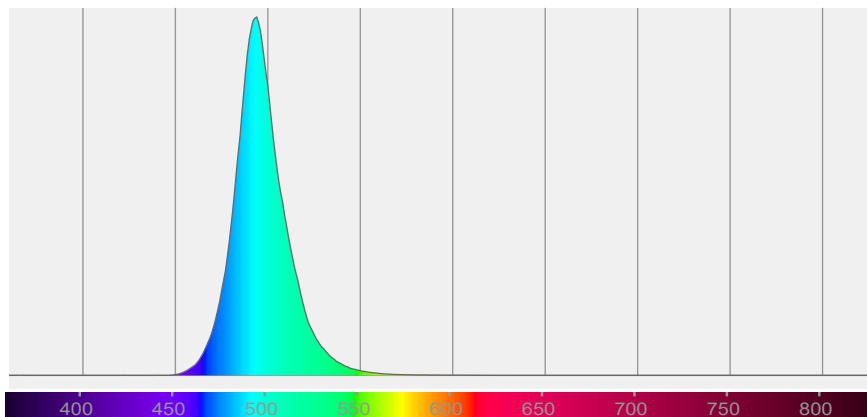


Beam angle 50%: 28,4°

Field angle 10%: 40,8°

Cut off angle 2.5%: 45,5°

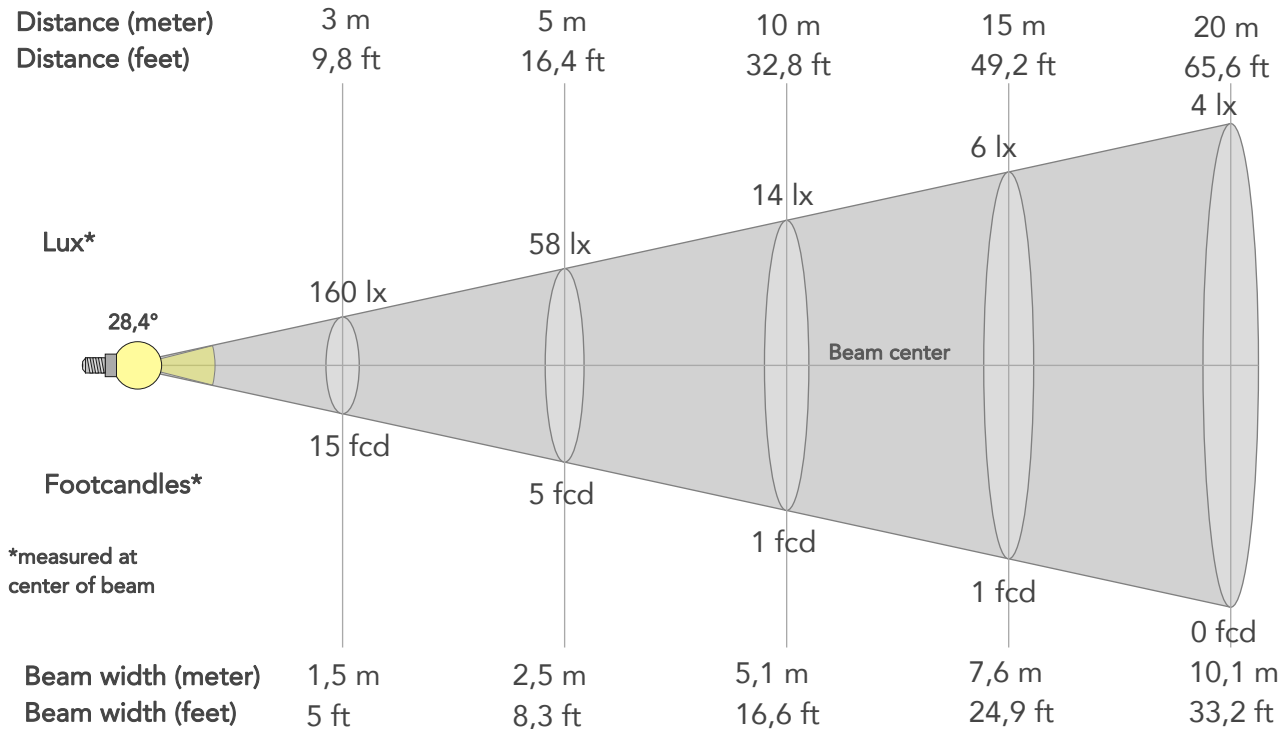
Spectra



# BEAM DETAILS



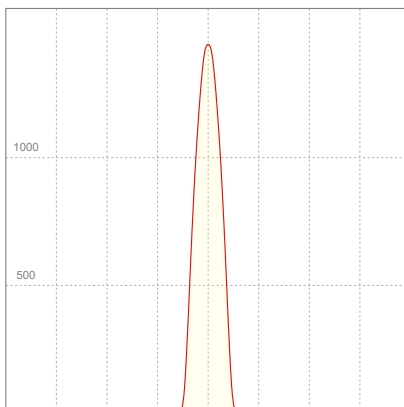
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,4°	40,8°	45,5°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1440lx	360lx	160lx	90lx	58lx	26lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	134fcd	33fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,5m	1m	1,5m	2m	2,5m	3,8m	5,1m	7,6m	10,1m	12,7m	15,2m	20,3m	25,3m
Beam wid.	1,7ft	3,3ft	5ft	6,6ft	8,3ft	12,5ft	16,6ft	24,9ft	33,2ft	41,5ft	49,8ft	66,4ft	83,1ft

## LINEAR DISTRIBUTION DIAGRAM

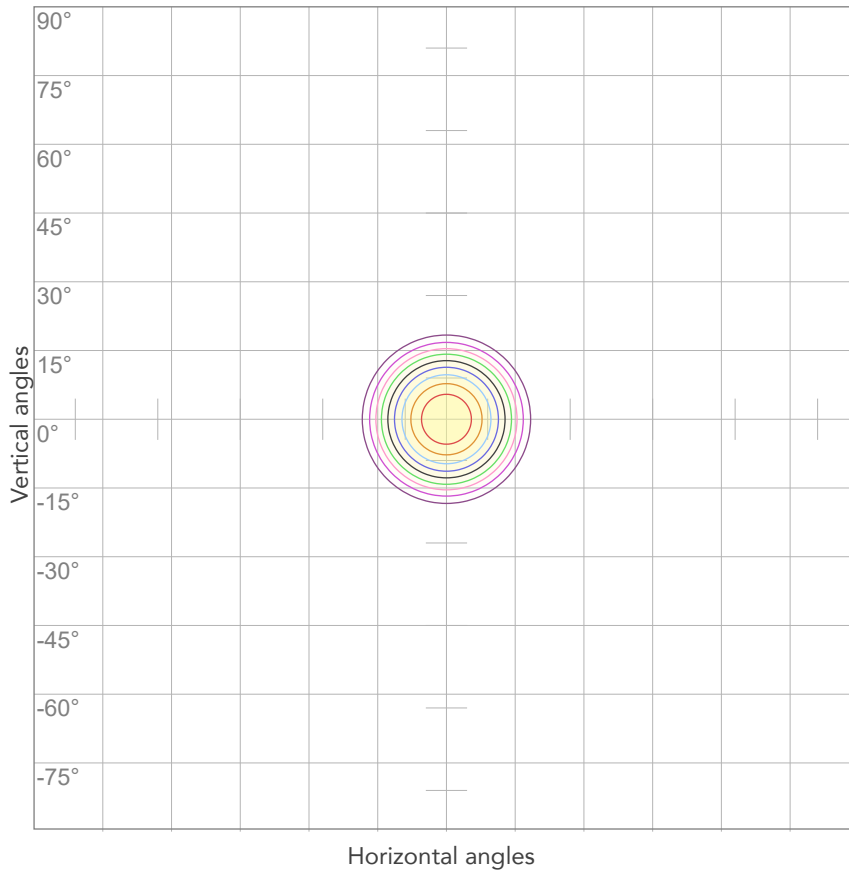


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,357A	28,8W	10lm/W

Power FC
0,35

## ISO CANDELA DIAGRAM



10%	144 cd
20%	288 cd
30%	432 cd
40%	576 cd
50%	720 cd
60%	864 cd
70%	1008 cd
80%	1152 cd

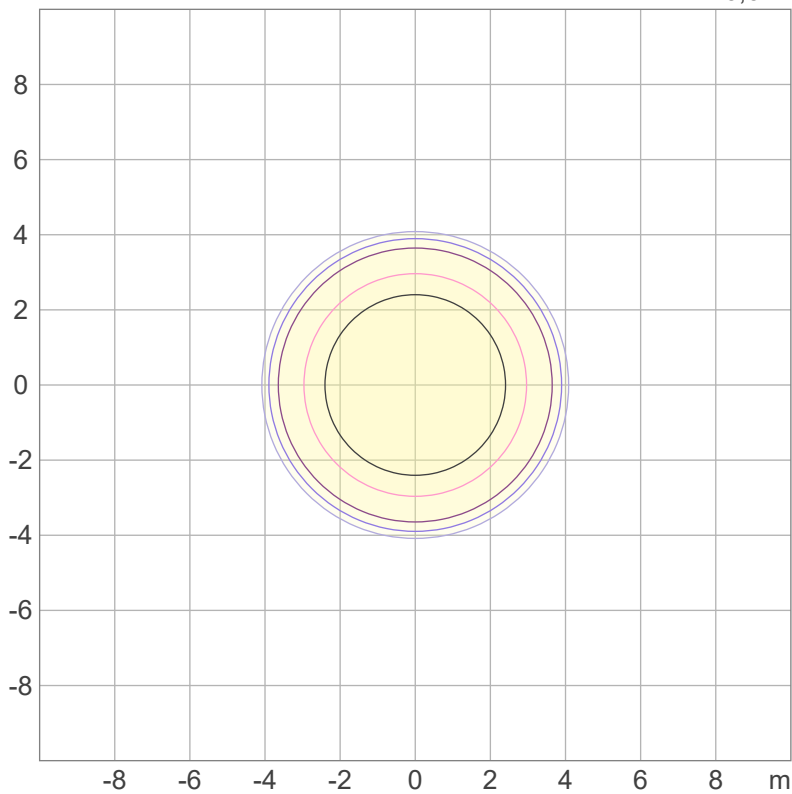
Conditions:

Number of c-planes: 2

Candela at center: 1440 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	0,432 lx
5%	0,720 lx
10%	1,44 lx
30%	4,32 lx
50%	7,20 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,4 lx

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



Total lumen output:

161 lm

Peak candela output:

5397 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

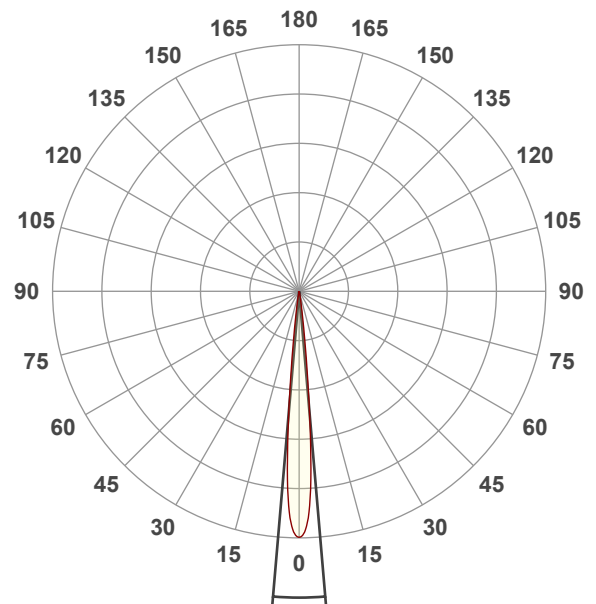
Cyan

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:25:38

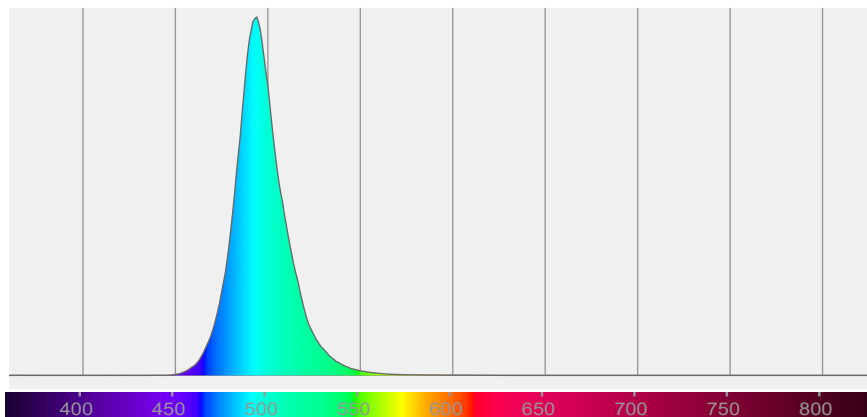


Beam angle 50%: 9,8°

Field angle 10%: 15,6°

Cut off angle 2.5%: 20,5°

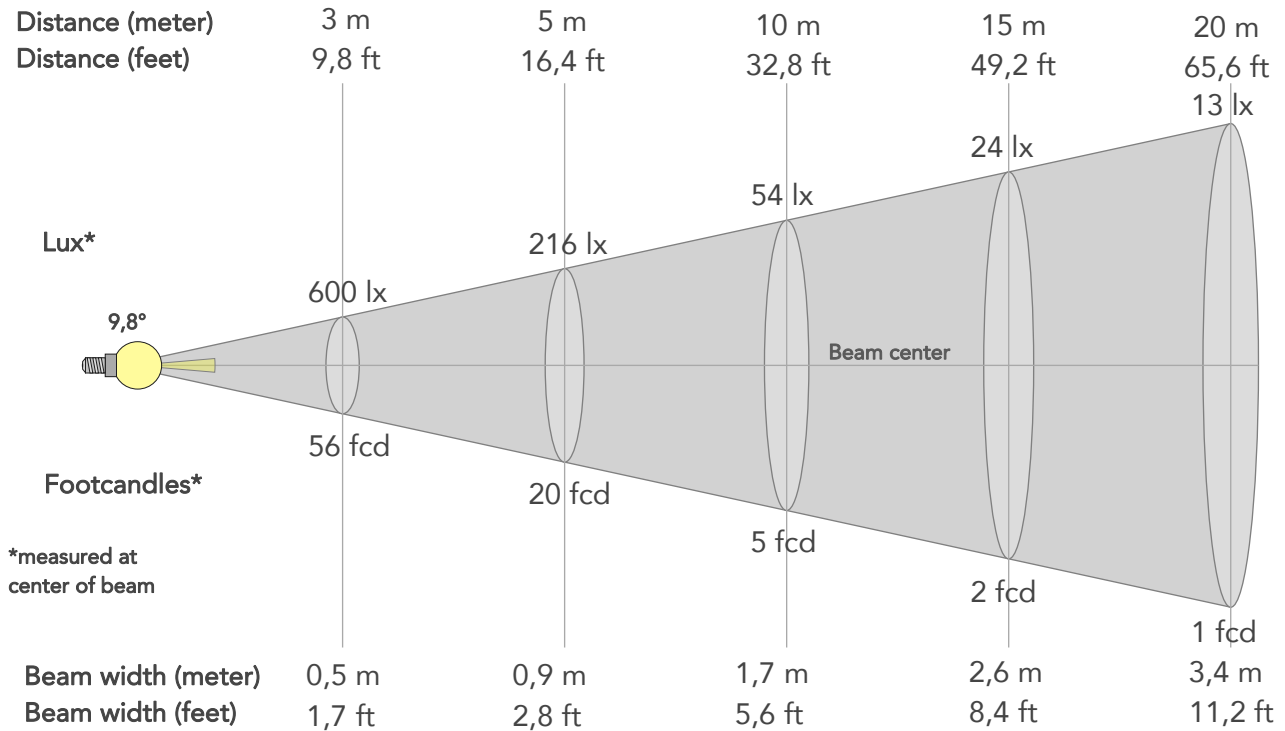
Spectra



# BEAM DETAILS



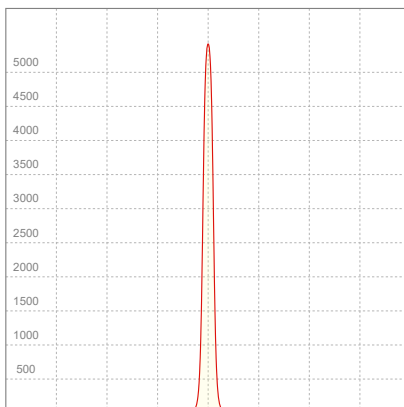
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,8°	15,6°	20,5°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5397lx	1349lx	600lx	337lx	216lx	96lx	54lx	24lx	13lx	9lx	6lx	3lx	2lx
Footcand.	501fcd	125fcd	56fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,9m	1,3m	1,7m	2,6m	3,4m	4,3m	5,1m	6,8m	8,6m
Beam wid.	0,6ft	1,1ft	1,7ft	2,2ft	2,8ft	4,2ft	5,6ft	8,4ft	11,2ft	14ft	16,8ft	22,5ft	28,1ft

## LINEAR DISTRIBUTION DIAGRAM



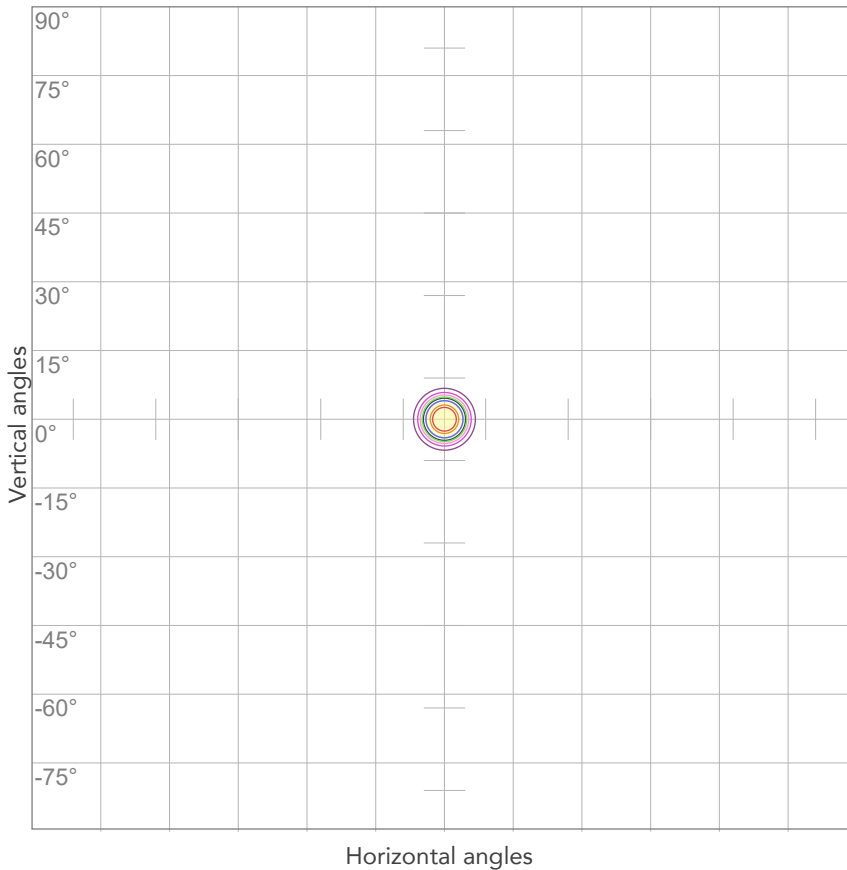
## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,307A	28,6W	6lm/W

Power FC
0,41



## ISO CANDELA DIAGRAM



10%	540 cd
20%	1079 cd
30%	1619 cd
40%	2159 cd
50%	2699 cd
60%	3238 cd
70%	3778 cd
80%	4318 cd

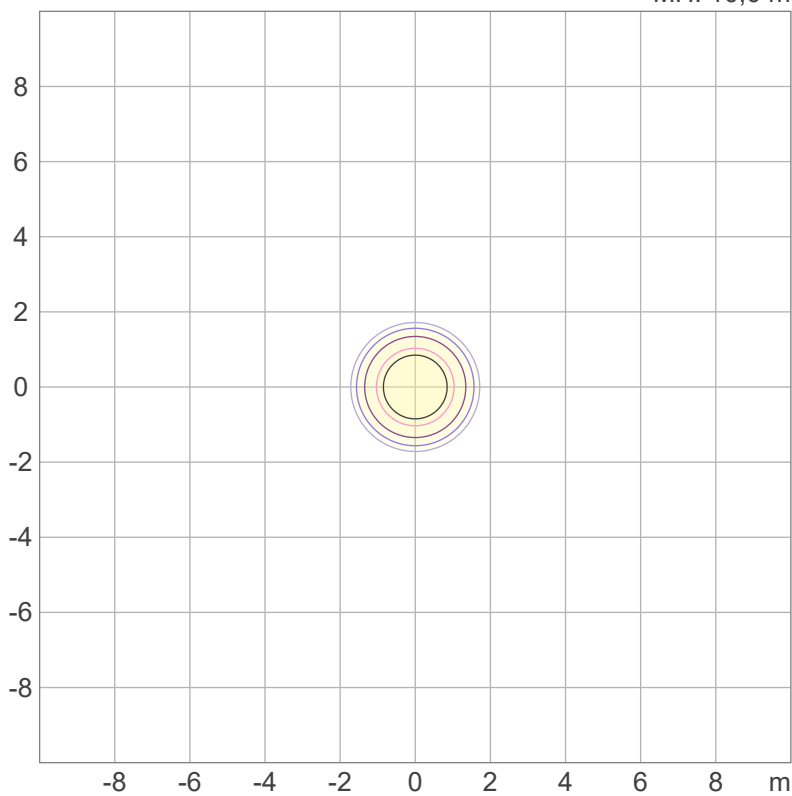
Conditions:

Number of c-planes: 2

Candela at center: 5397 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	1,62 lx
5%	2,70 lx
10%	5,40 lx
30%	16,2 lx
50%	27,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 54,0 lx

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



Total lumen output:

4924 lm

Peak candela output:

5721 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

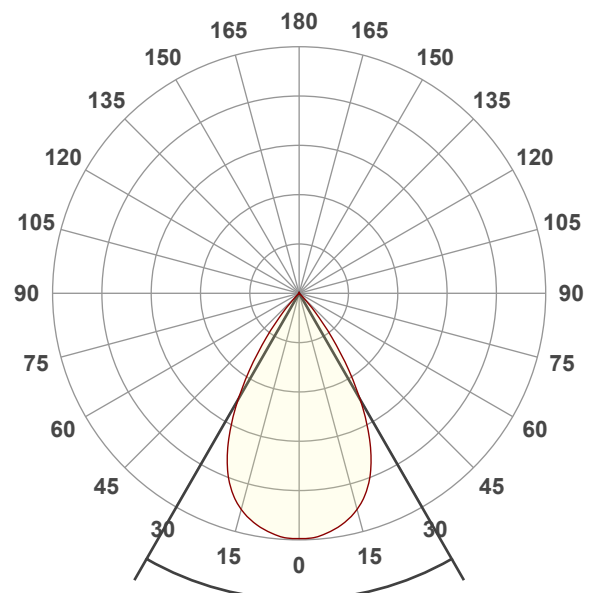
Mint

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:37:42

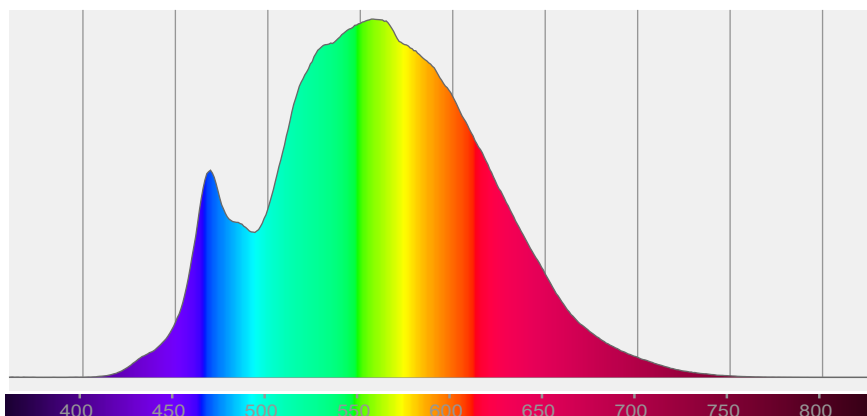


Beam angle 50%: 59,7°

Field angle 10%: 80,8°

Cut off angle 2.5%: 88,8°

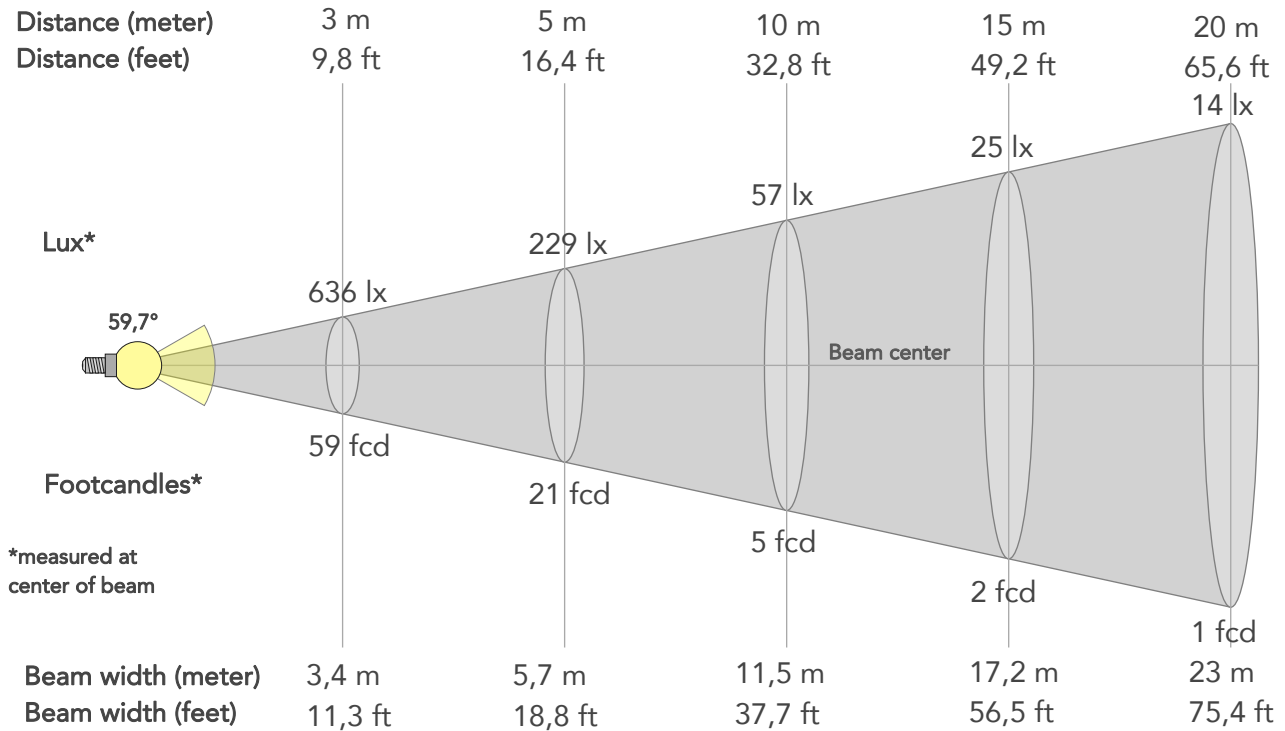
Spectra



# BEAM DETAILS



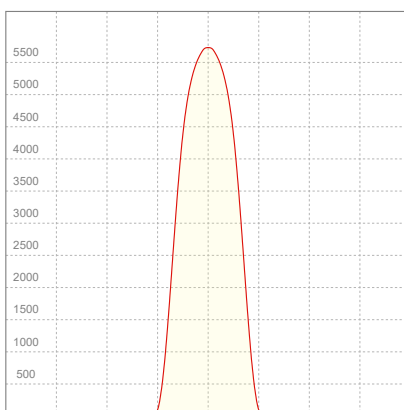
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,7°	80,8°	88,8°	100,0%	99,5%



## 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	5721lx	1430lx	636lx	358lx	229lx	102lx	57lx	25lx	14lx	9lx	6lx	4lx	2lx
Footcand.	531fcd	133fcd	59fcd	33fcd	21fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,5m	17,2m	23m	28,7m	34,5m	46m	57,4m
Beam wid.	3,8ft	7,6ft	11,3ft	15ft	18,8ft	28,3ft	37,7ft	56,5ft	75,4ft	94,2ft	113ft	150,7ft	188,4ft

## LINEAR DISTRIBUTION DIAGRAM

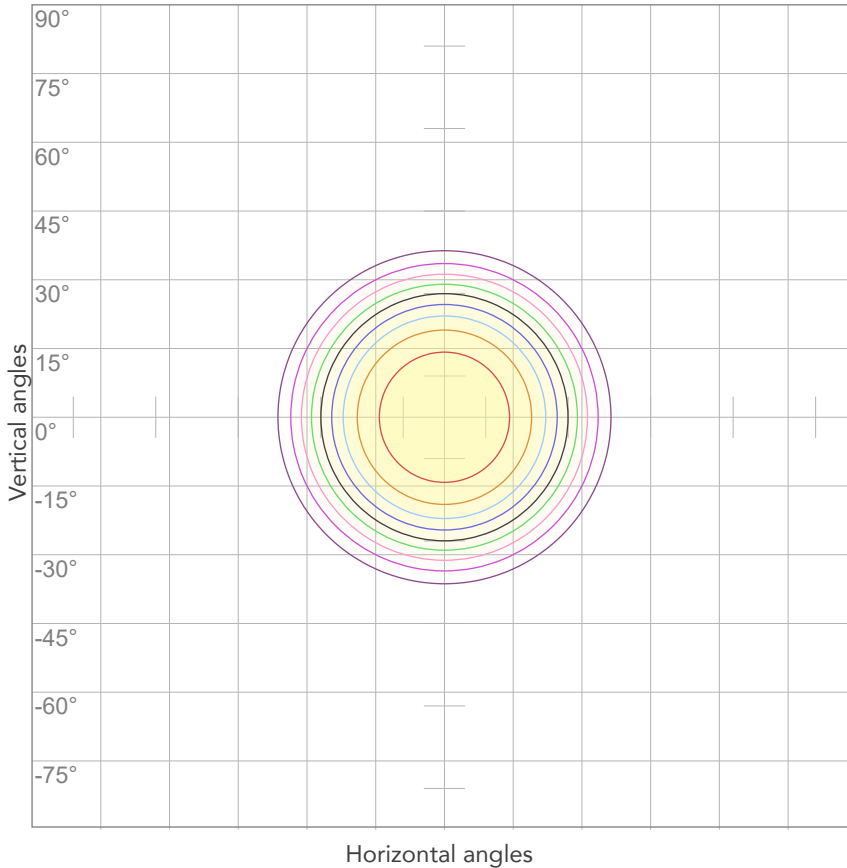


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,514A	106W	46lm/W

Power FC
0,91

## ISO CANDELA DIAGRAM



10%	572 cd
20%	1144 cd
30%	1716 cd
40%	2288 cd
50%	2860 cd
60%	3432 cd
70%	4005 cd
80%	4577 cd

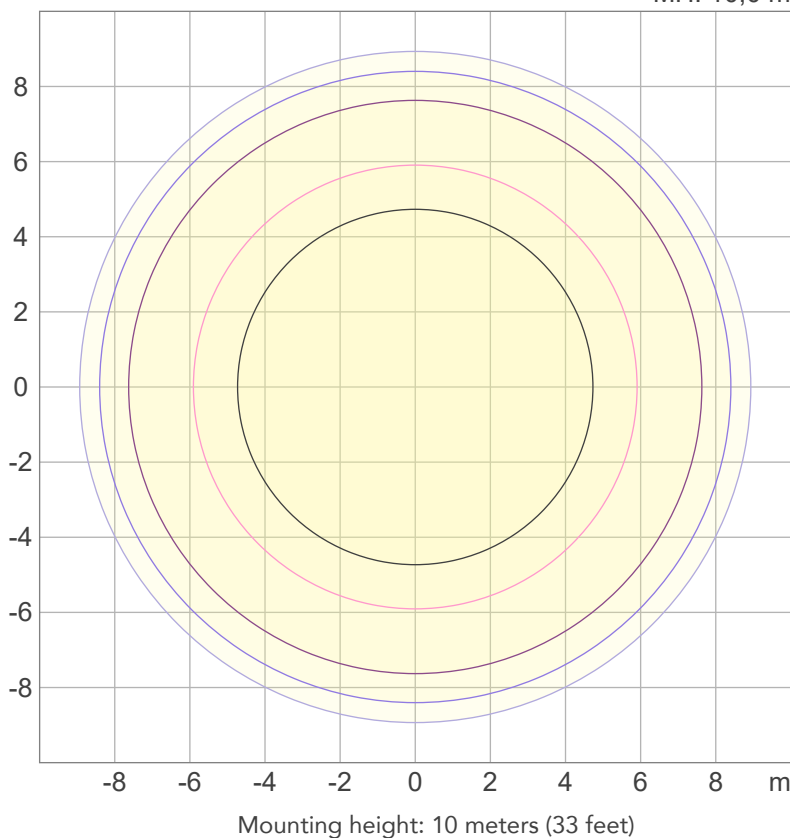
Conditions:

Number of c-planes: 2

Candela at center: 5721 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	1,72 lx
5%	2,86 lx
10%	5,72 lx
30%	17,2 lx
50%	28,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 57,2 lx

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



Total lumen output:

3778 lm

Peak candela output:

19332 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

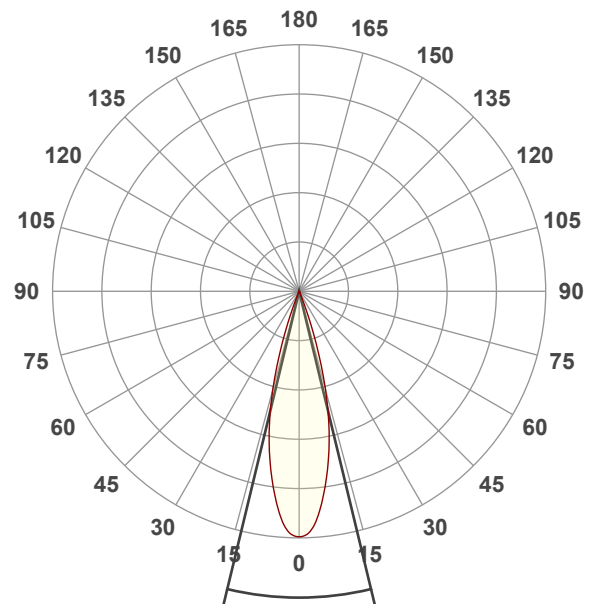
Mint

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:46:24

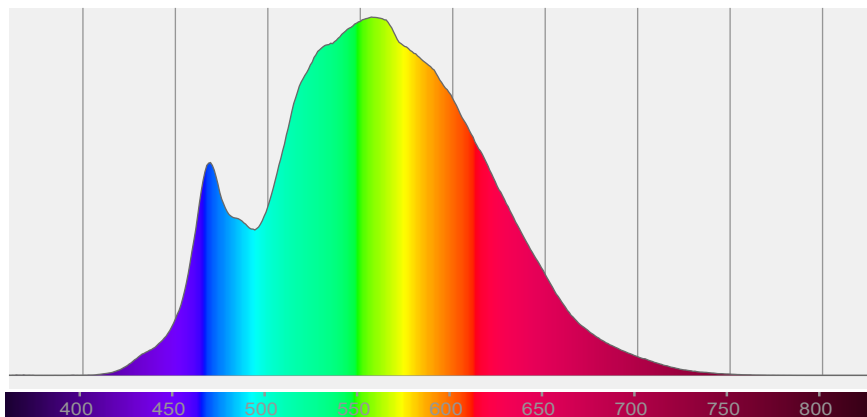


Beam angle 50%: 27,1°

Field angle 10%: 40,7°

Cut off angle 2.5%: 45,6°

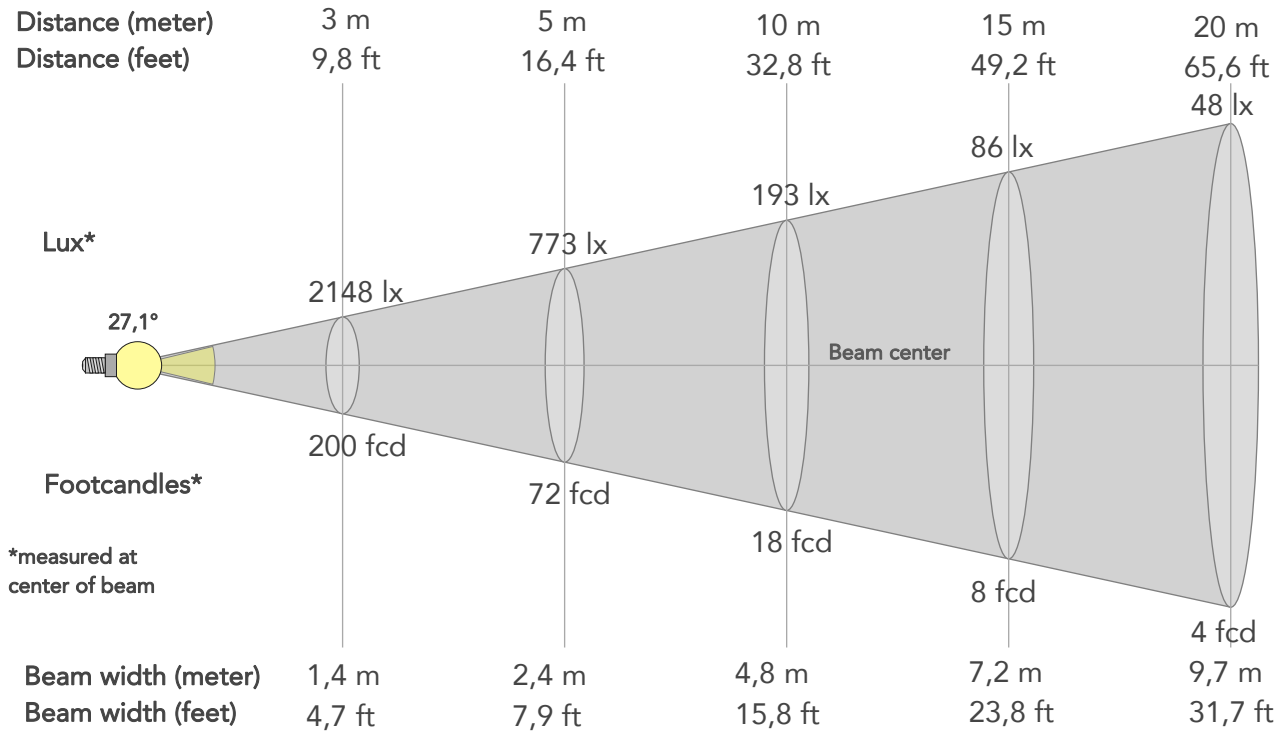
Spectra



# BEAM DETAILS



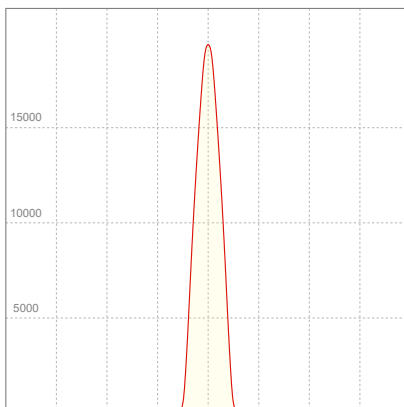
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,1°	40,7°	45,6°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	19332lx	4833lx	2148lx	1208lx	773lx	344lx	193lx	86lx	48lx	31lx	21lx	12lx	8lx
Footcand.	1796fcd	449fcd	200fcd	112fcd	72fcd	32fcd	18fcd	8fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,7m	12,1m	14,5m	19,3m	24,1m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,9ft	15,8ft	23,8ft	31,7ft	39,6ft	47,5ft	63,3ft	79,2ft

## LINEAR DISTRIBUTION DIAGRAM

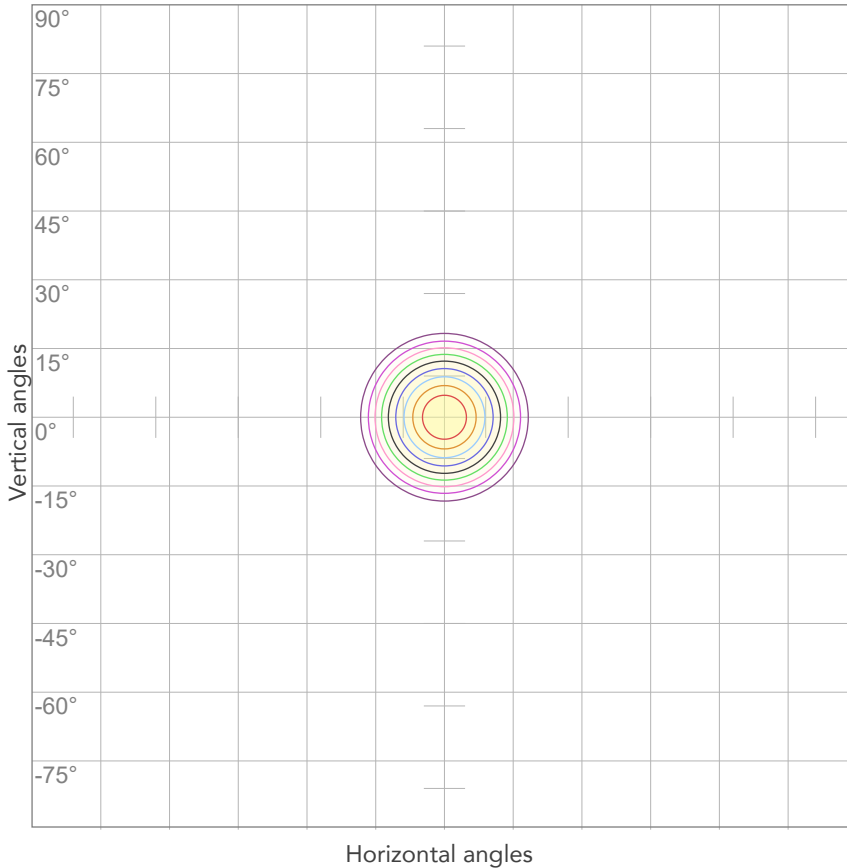


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,511A	105,8W	36lm/W

Power FC
0,91

## ISO CANDELA DIAGRAM



10%	1933 cd
20%	3866 cd
30%	5800 cd
40%	7733 cd
50%	9666 cd
60%	11599 cd
70%	13533 cd
80%	15466 cd

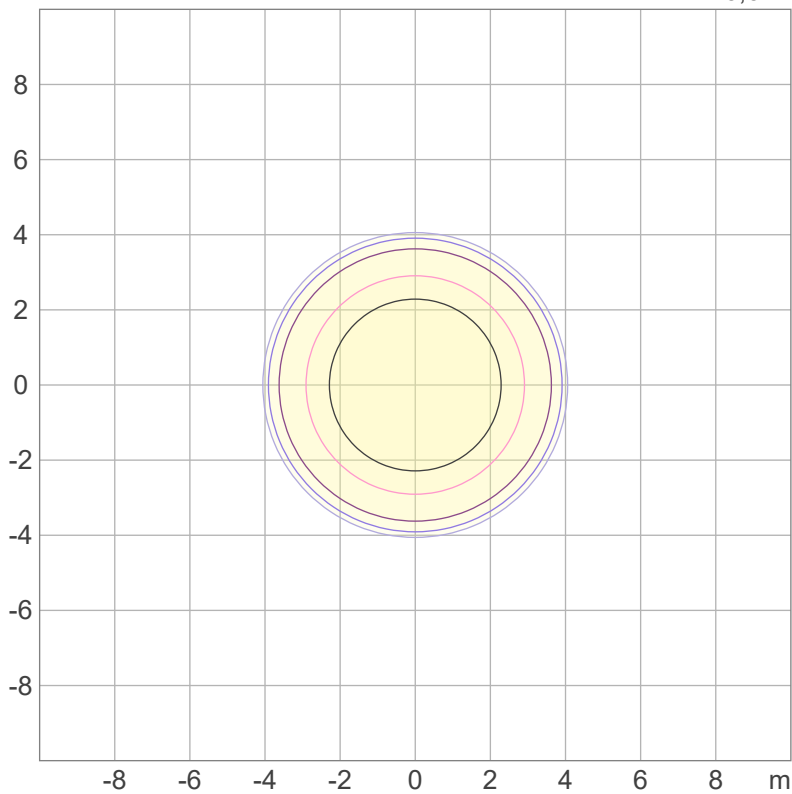
Conditions:

Number of c-planes: 2

Candela at center: 19332 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	5,80 lx
5%	9,67 lx
10%	19,3 lx
30%	58,0 lx
50%	96,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 193 lx

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



Total lumen output:

2040 lm

Peak candela output:

73552 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

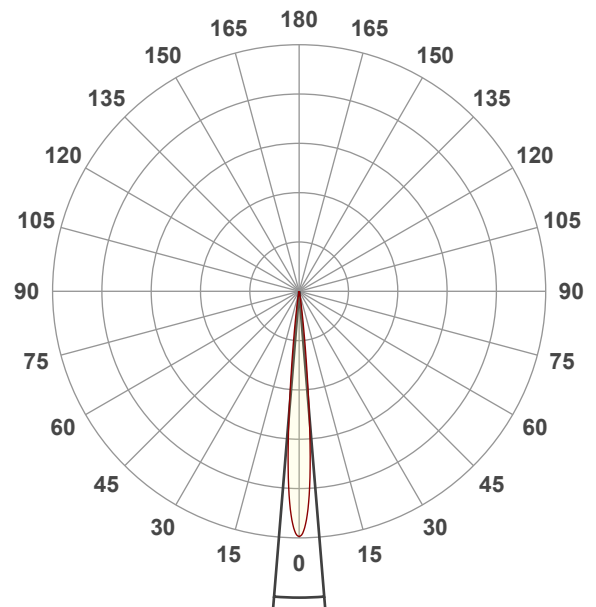
Mint

Operator:

Salvatore Giglio

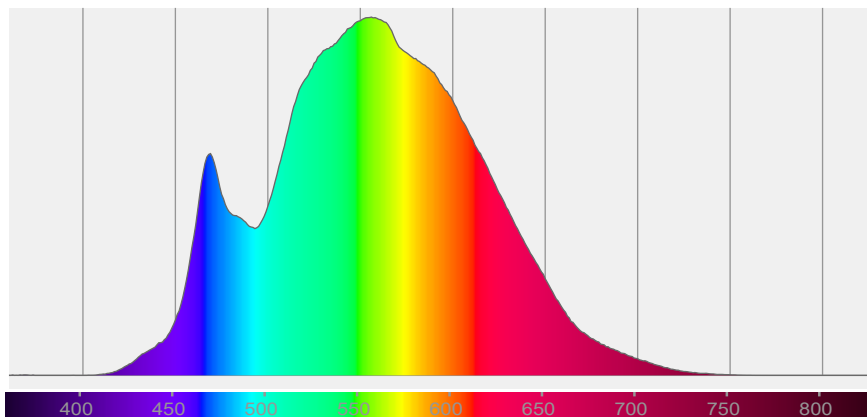
Date and time:

18/09/2023 12:27:17



Beam angle 50%: 9,4°  
Field angle 10%: 15,3°  
Cut off angle 2.5%: 20,2°

Spectra

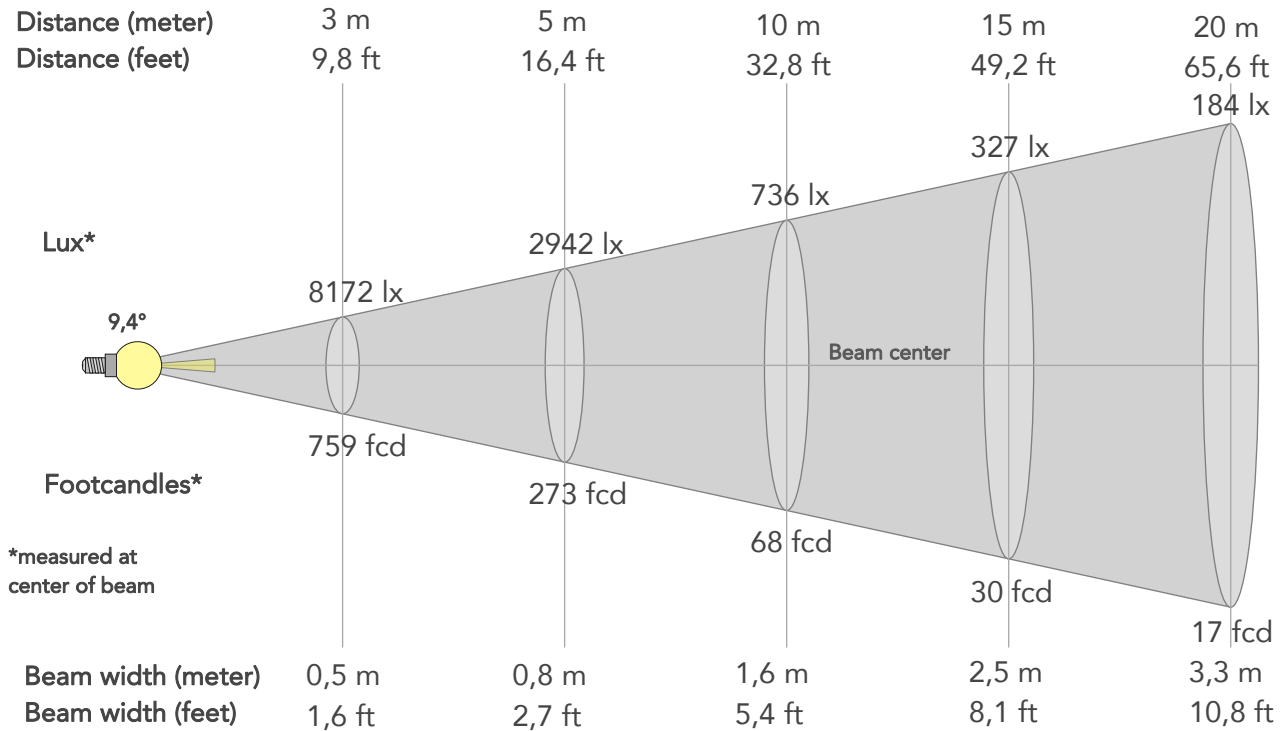




# BEAM DETAILS



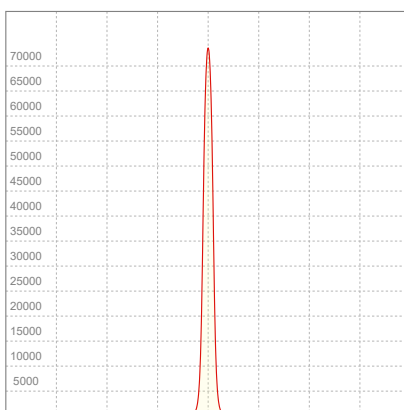
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,4°	15,3°	20,2°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	73552lx	18388lx	8172lx	4597lx	2942lx	1308lx	736lx	327lx	184lx	118lx	82lx	46lx	29lx
Footcand.	6833fcd	1708fcd	759fcd	427fcd	273fcd	121fcd	68fcd	30fcd	17fcd	11fcd	8fcd	4fcd	3fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,5m	3,3m	4,1m	4,9m	6,6m	8,2m
Beam wid.	0,5ft	1,1ft	1,6ft	2,2ft	2,7ft	4ft	5,4ft	8,1ft	10,8ft	13,5ft	16,2ft	21,6ft	27ft

## LINEAR DISTRIBUTION DIAGRAM

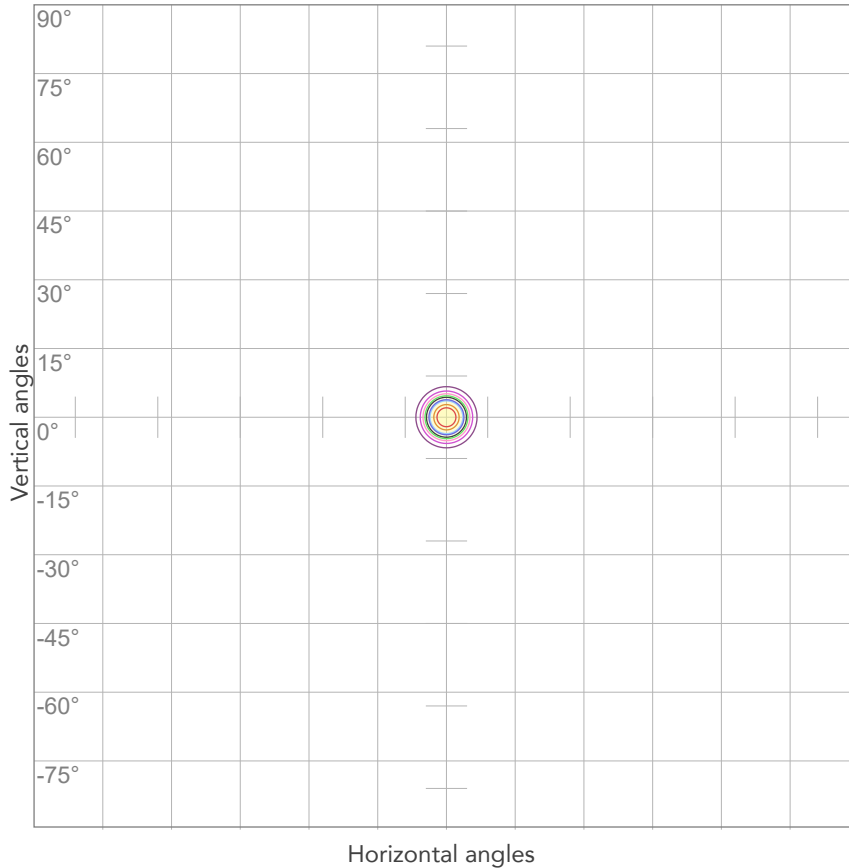


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,513A	106W	19lm/W

Power FC
0,91

## ISO CANDELA DIAGRAM



10%	7355 cd
20%	14710 cd
30%	22066 cd
40%	29421 cd
50%	36776 cd
60%	44131 cd
70%	51486 cd
80%	58842 cd

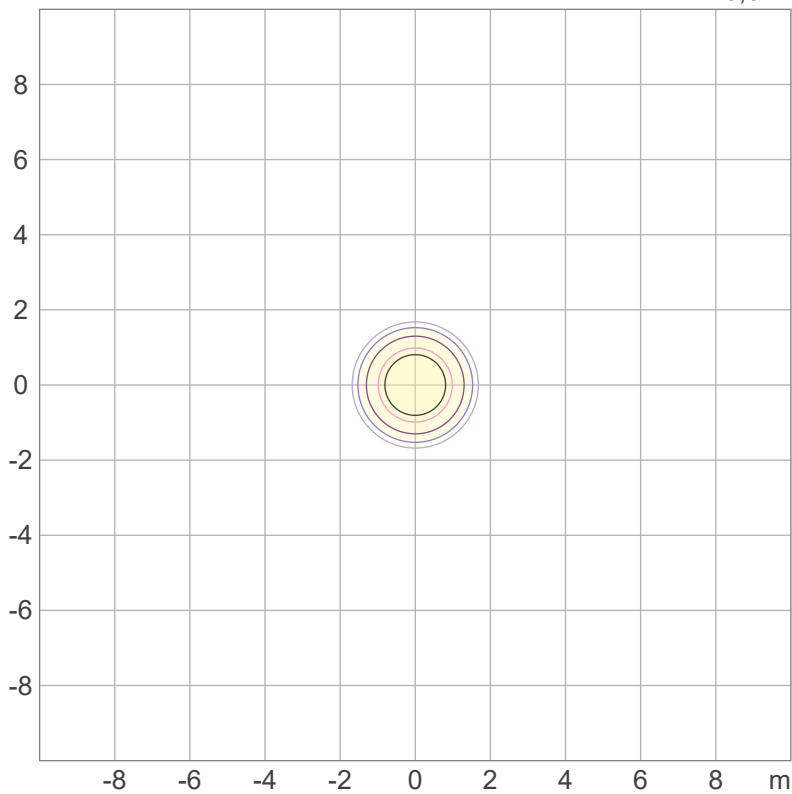
Conditions:

Number of c-planes: 2

Candela at center: 73552 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	22,1 lx
5%	36,8 lx
10%	73,6 lx
30%	221 lx
50%	368 lx

Conditions:

Number of c-planes: 2

Lux at center: 736 lx

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



Total lumen output:

2179 lm

Peak candela output:

2578 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

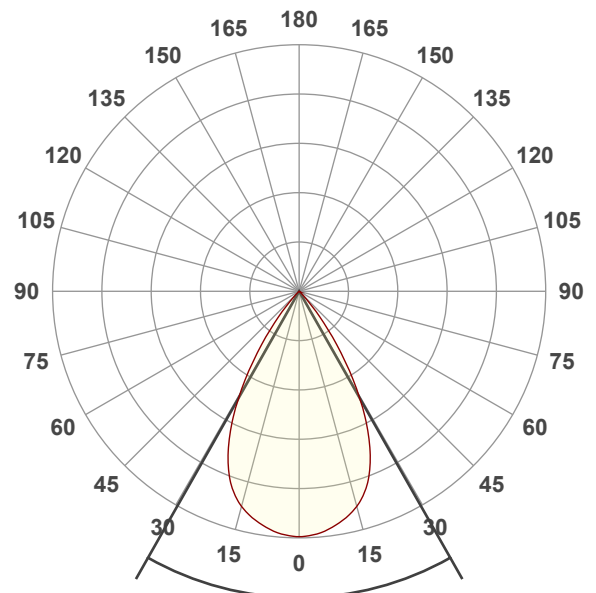
Amber

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:39:23

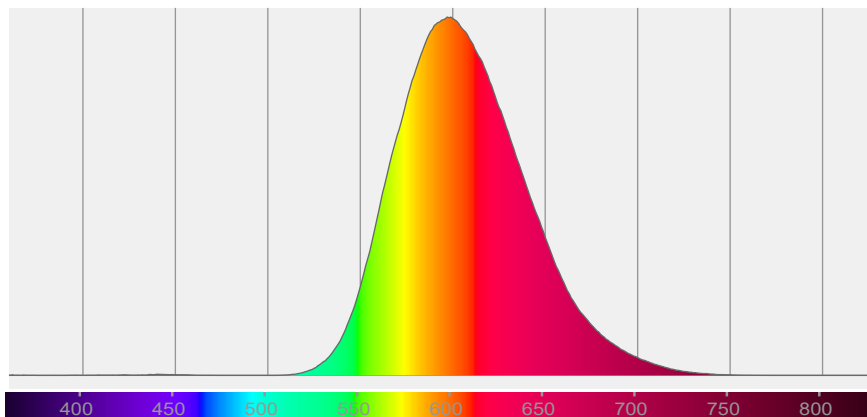


Beam angle 50%: 59,1°

Field angle 10%: 80,7°

Cut off angle 2.5%: 89,1°

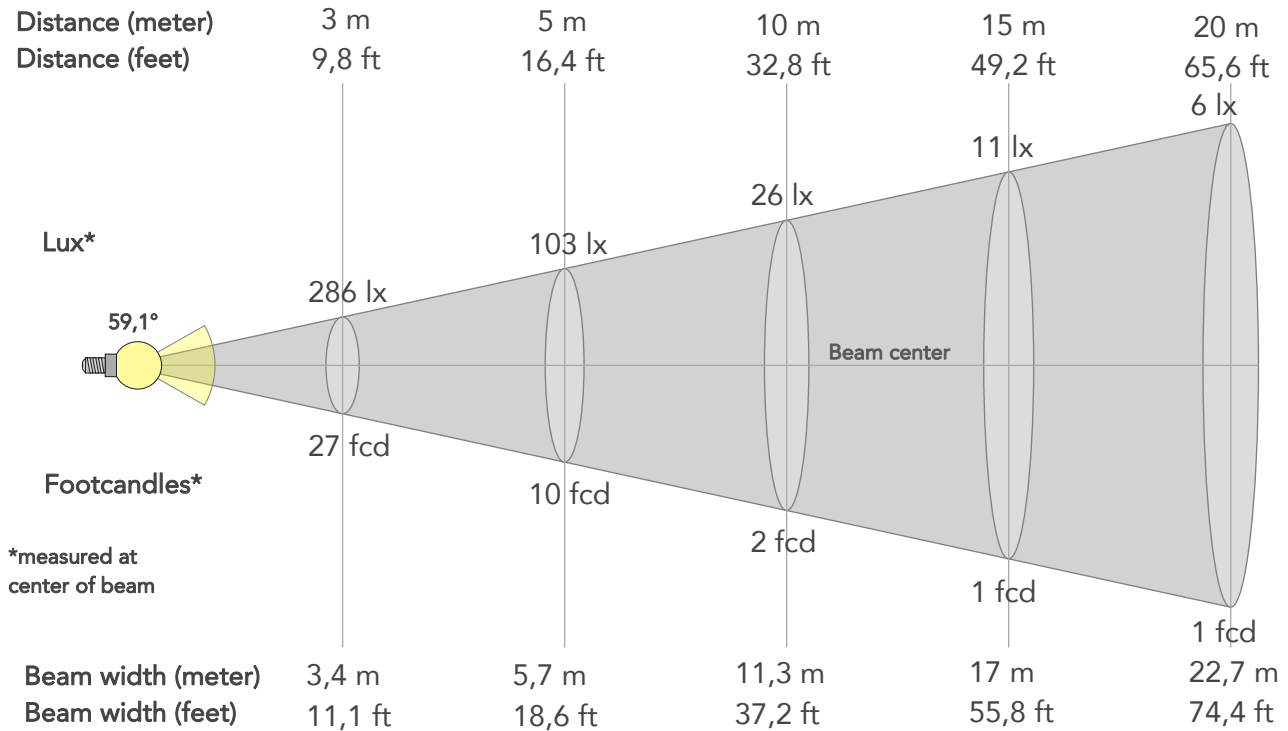
Spectra



# BEAM DETAILS



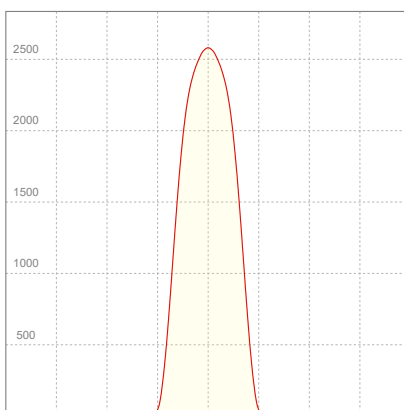
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,1°	80,7°	89,1°	100,0%	99,6%



## 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	2578lx	644lx	286lx	161lx	103lx	46lx	26lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	239fcd	60fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,5m	5,7m	8,5m	11,3m	17m	22,7m	28,4m	34m	45,4m	56,7m
Beam wid.	3,7ft	7,5ft	11,1ft	14,9ft	18,6ft	27,9ft	37,2ft	55,8ft	74,4ft	93ft	111,6ft	148,8ft	186ft

## LINEAR DISTRIBUTION DIAGRAM

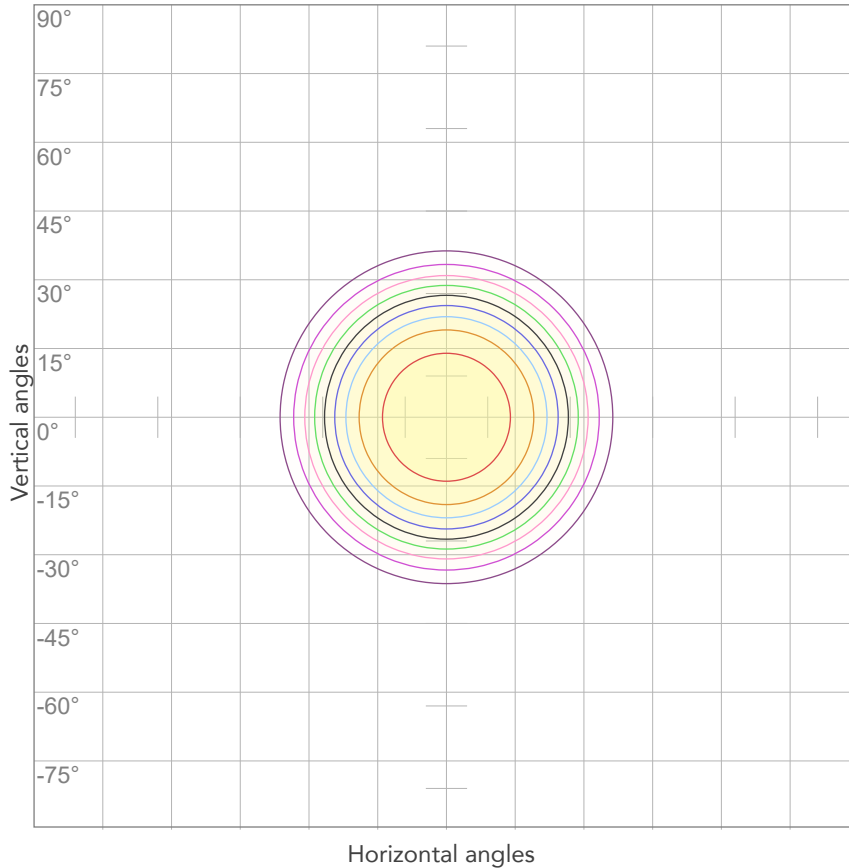


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,454A	89,9W	24lm/W

Power FC
0,87

## ISO CANDELA DIAGRAM



10%	258 cd
20%	516 cd
30%	773 cd
40%	1031 cd
50%	1289 cd
60%	1547 cd
70%	1804 cd
80%	2062 cd

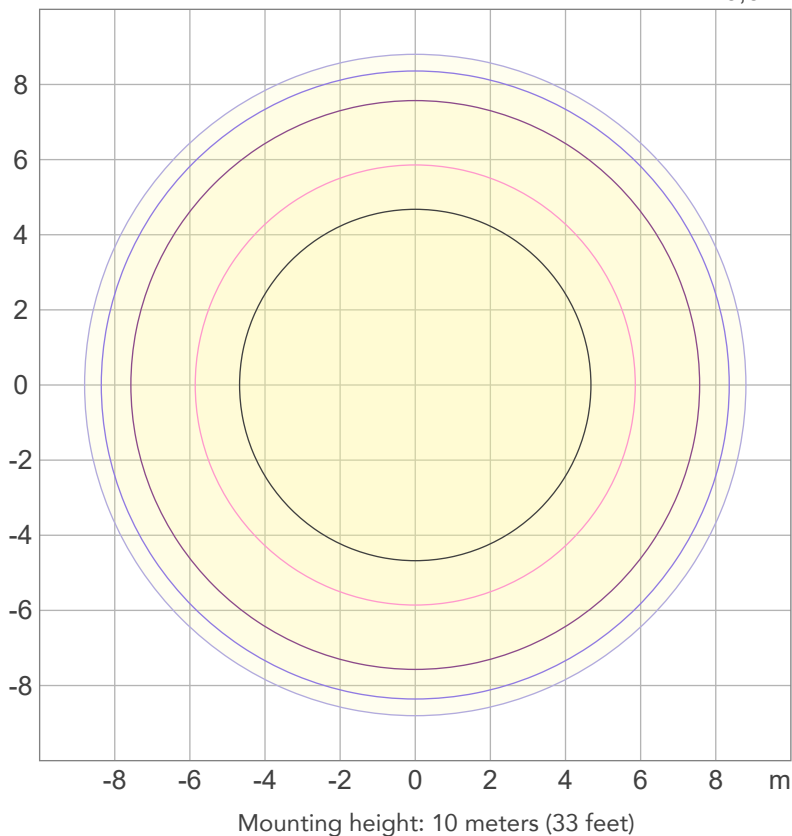
Conditions:

Number of c-planes: 2

Candela at center: 2578 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	0,773 lx
5%	1,29 lx
10%	2,58 lx
30%	7,73 lx
50%	12,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 25,8 lx

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



Total lumen output:

1685 lm

Peak candela output:

8619 cd

PRODUCT NAME:

ECLFRCTPM

MEASUREMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

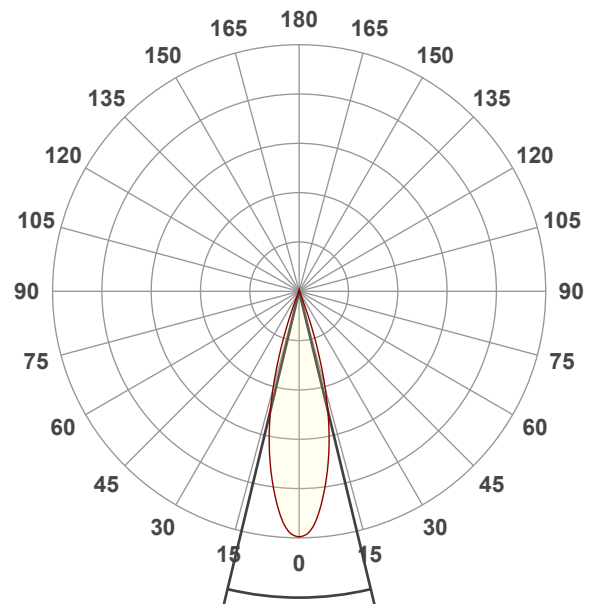
Amber

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:47:44

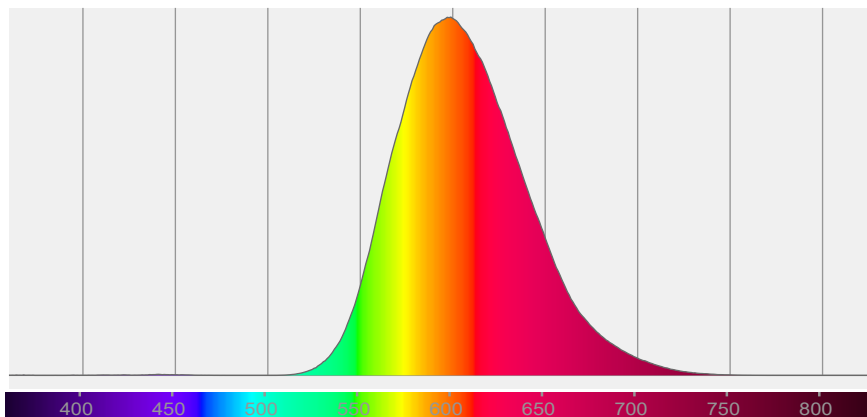


Beam angle 50%: 27°

Field angle 10%: 40,7°

Cut off angle 2.5%: 45,6°

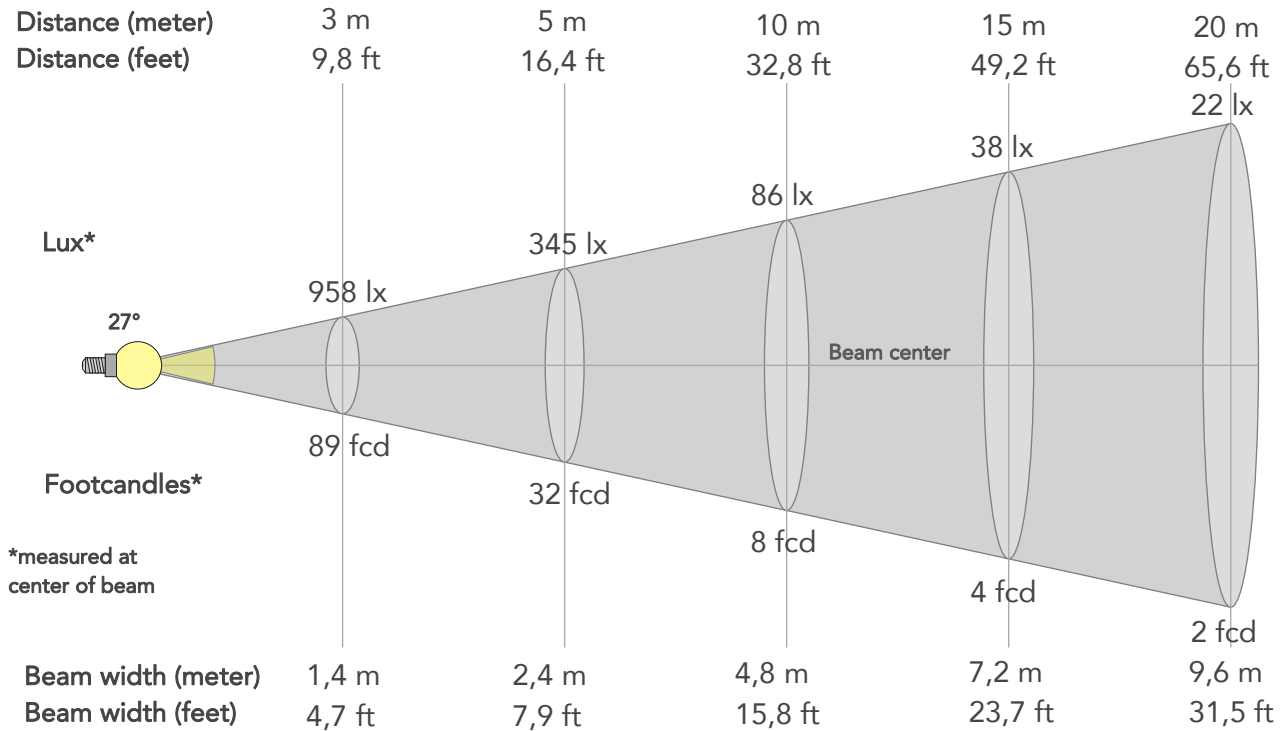
Spectra



# BEAM DETAILS



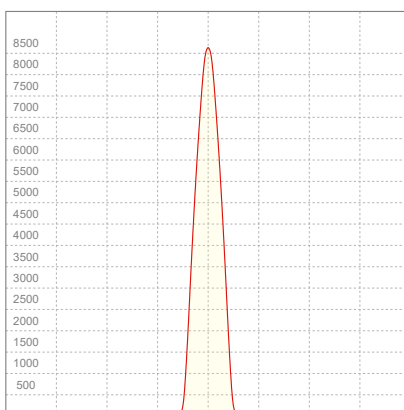
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	40,7°	45,6°	100,0%	99,9%



## 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	8618lx	2155lx	958lx	539lx	345lx	153lx	86lx	38lx	22lx	14lx	10lx	5lx	3lx
Footcand.	801fcd	200fcd	89fcd	50fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,6m	12m	14,4m	19,2m	24m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,8ft	15,8ft	23,7ft	31,5ft	39,4ft	47,3ft	63,1ft	78,9ft

## LINEAR DISTRIBUTION DIAGRAM

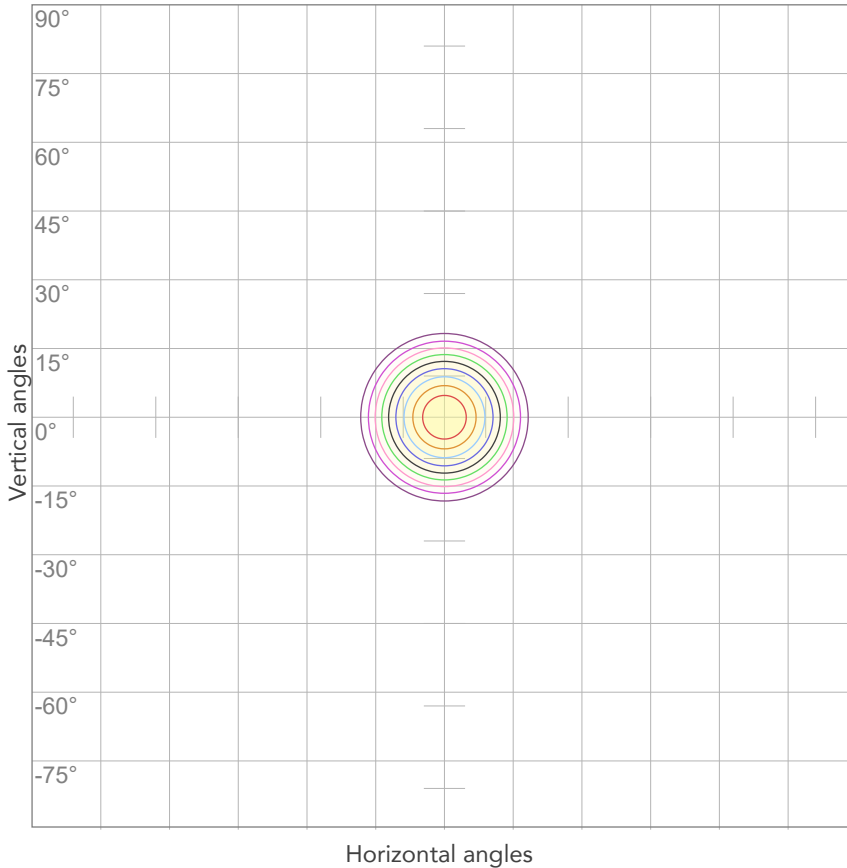


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,455A	90,0W	19lm/W

Power FC
0,87

## ISO CANDELA DIAGRAM



10%	862 cd
20%	1724 cd
30%	2586 cd
40%	3447 cd
50%	4309 cd
60%	5171 cd
70%	6033 cd
80%	6895 cd

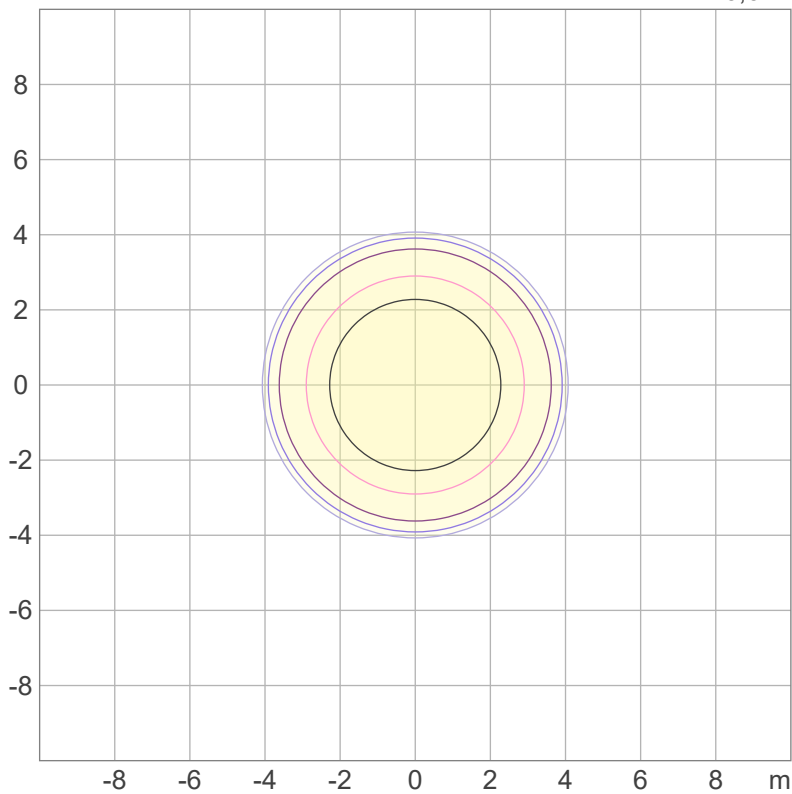
Conditions:

Number of c-planes: 2

Candela at center: 8618 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	2,59 lx
5%	4,31 lx
10%	8,62 lx
30%	25,9 lx
50%	43,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 86,2 lx

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





Total lumen output:

911 lm

Peak candela output:

32860 cd

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

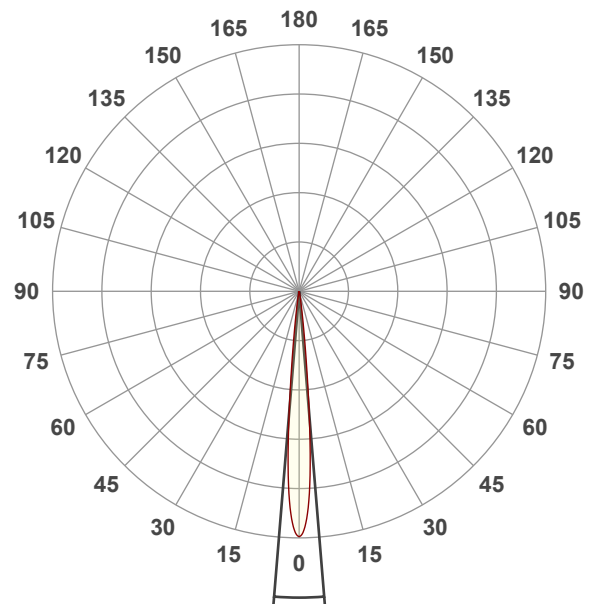
Amber

Operator:

Salvatore Giglio

Date and time:

18/09/2023 12:30:40

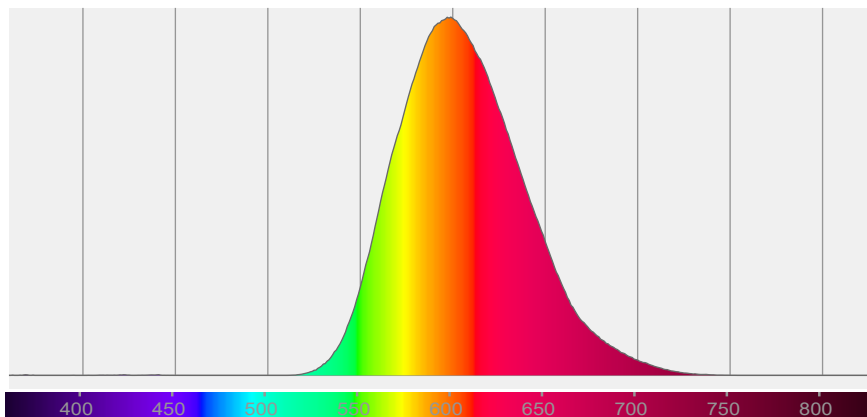


Beam angle 50%: 9,4°

Field angle 10%: 15,2°

Cut off angle 2.5%: 20,1°

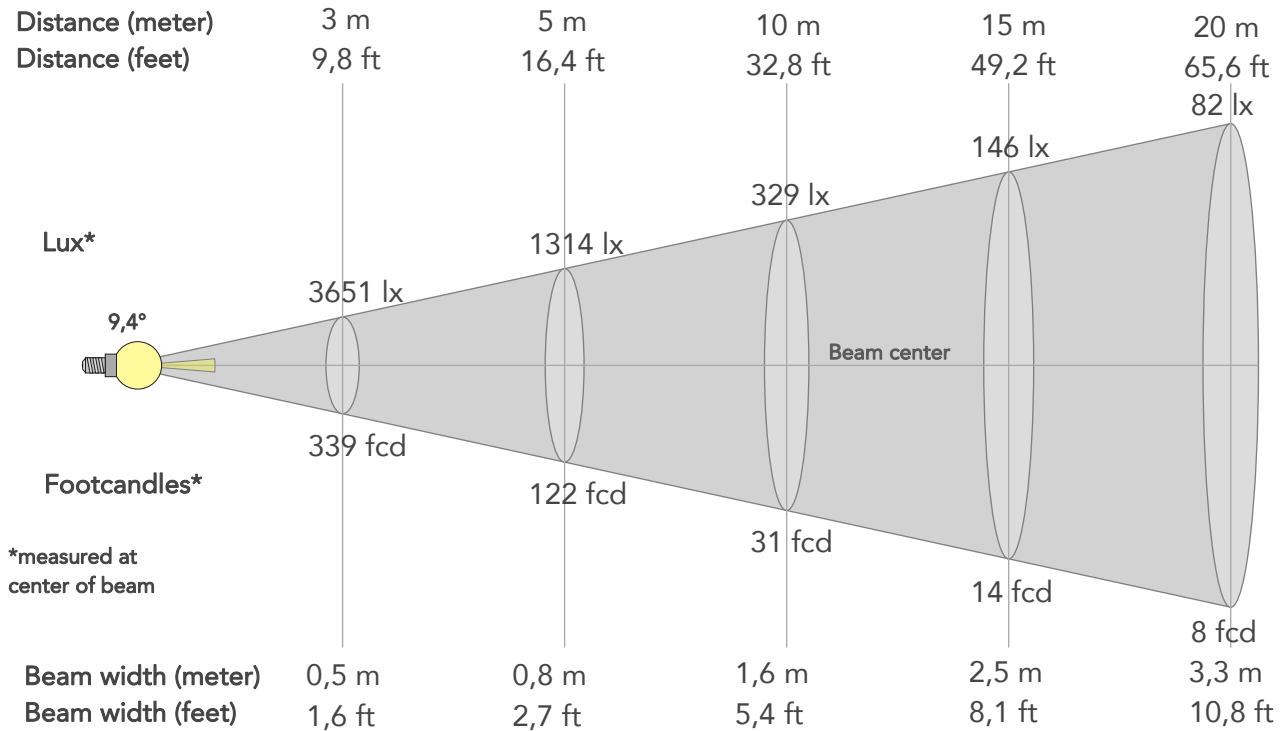
Spectra



# BEAM DETAILS



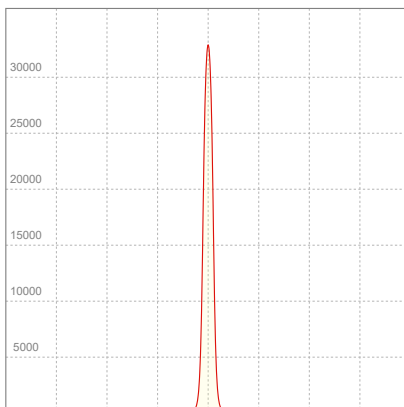
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,4°	15,2°	20,1°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	32860lx	8215lx	3651lx	2054lx	1314lx	584lx	329lx	146lx	82lx	53lx	37lx	21lx	13lx
Footcand.	3053fcd	763fcd	339fcd	191fcd	122fcd	54fcd	31fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,5m	3,3m	4,1m	4,9m	6,6m	8,2m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,4ft	8,1ft	10,8ft	13,5ft	16,1ft	21,5ft	26,9ft

## LINEAR DISTRIBUTION DIAGRAM

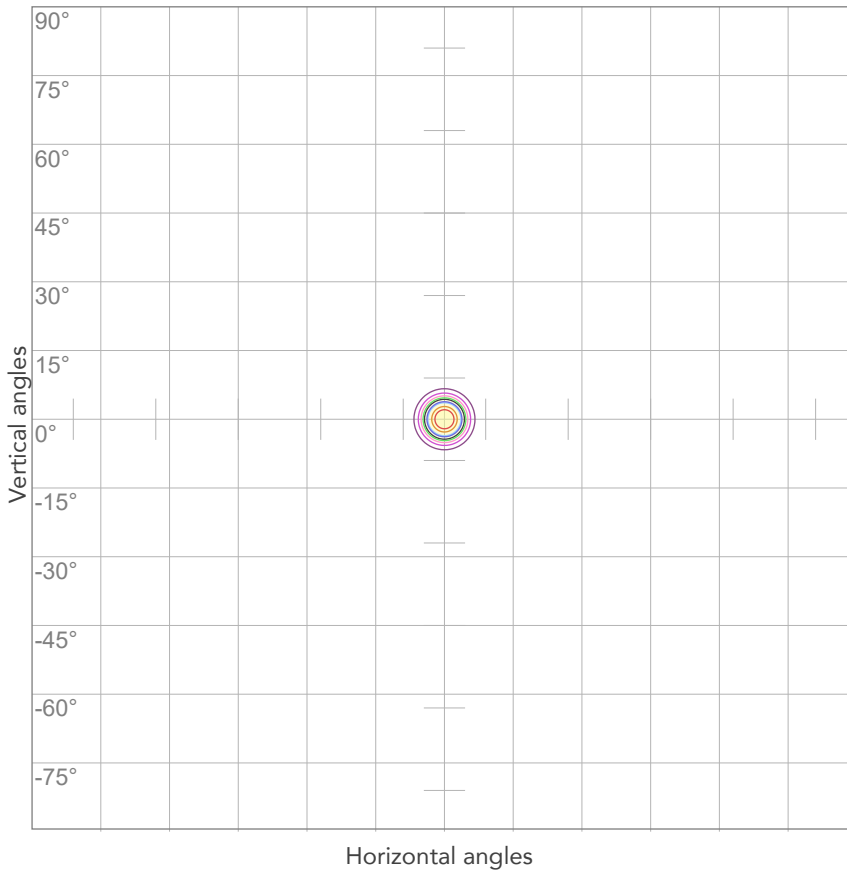


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,455A	90,0W	10lm/W

Power FC
0,87

## ISO CANDELA DIAGRAM



10%	3286 cd
20%	6572 cd
30%	9858 cd
40%	13144 cd
50%	16430 cd
60%	19716 cd
70%	23002 cd
80%	26288 cd

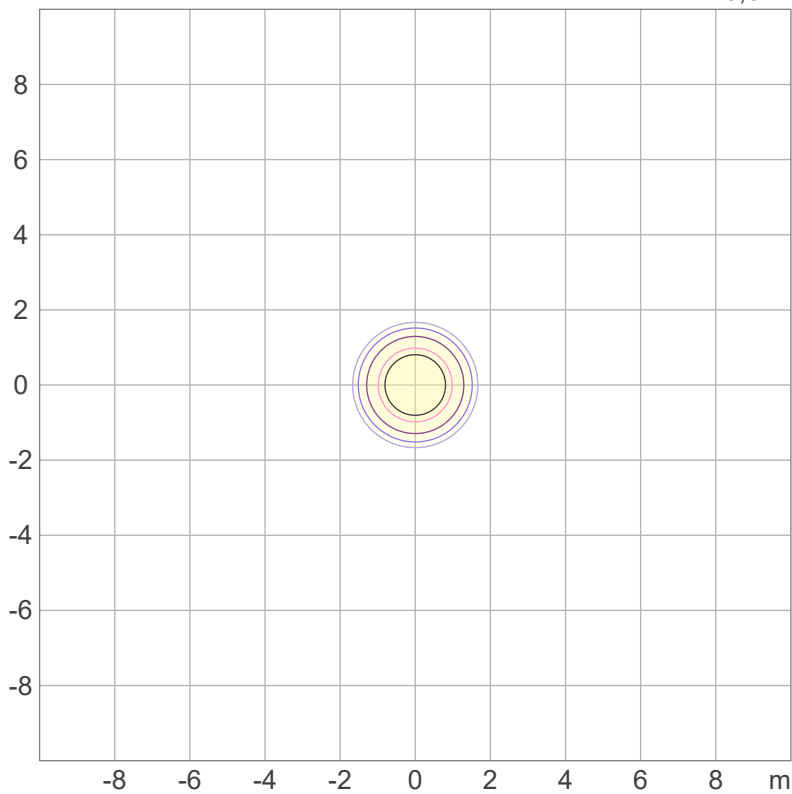
Conditions:

Number of c-planes: 2

Candela at center: 32860 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	9,86 lx
5%	16,4 lx
10%	32,9 lx
30%	98,6 lx
50%	164 lx

Conditions:

Number of c-planes: 2

Lux at center: 329 lx

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



Total lumen output:

7481 lm

Peak candela output:

8760 cd

Light quality:

CRI: 97,3

Color temperature:

2757 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

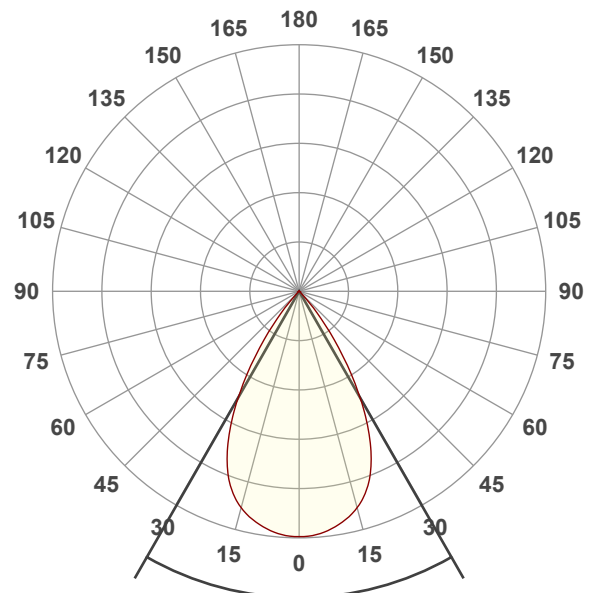
2800K

Operator:

Salvatore Giglio

Date and time:

18/09/2023 13:32:50

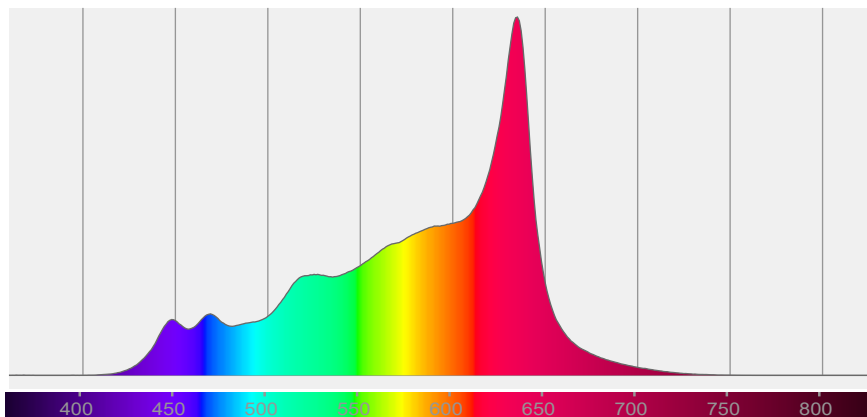


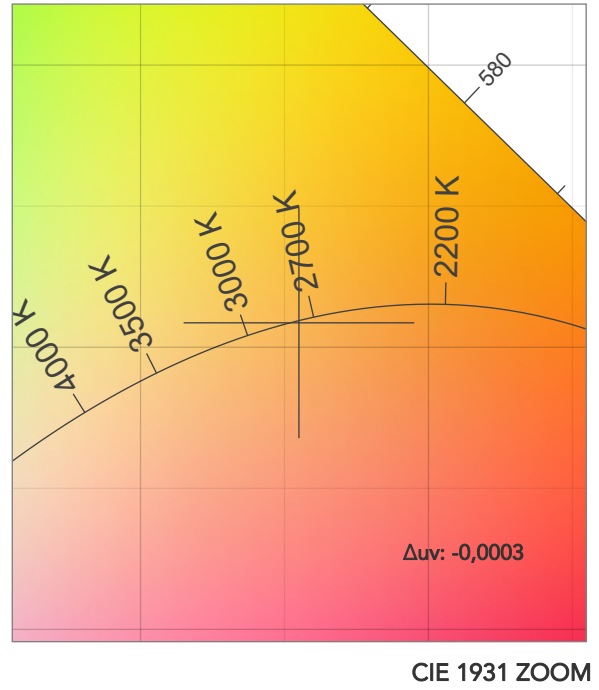
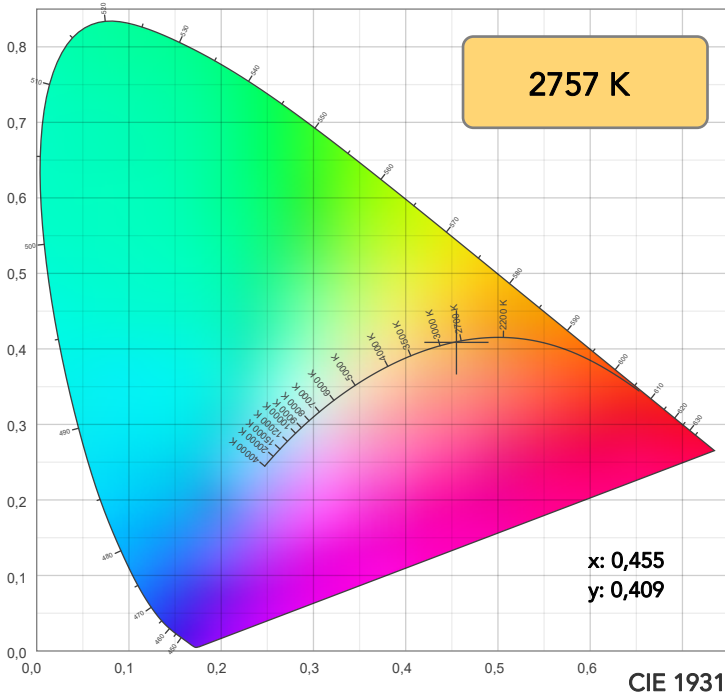
Beam angle 50%: 59,6°

Field angle 10%: 80,7°

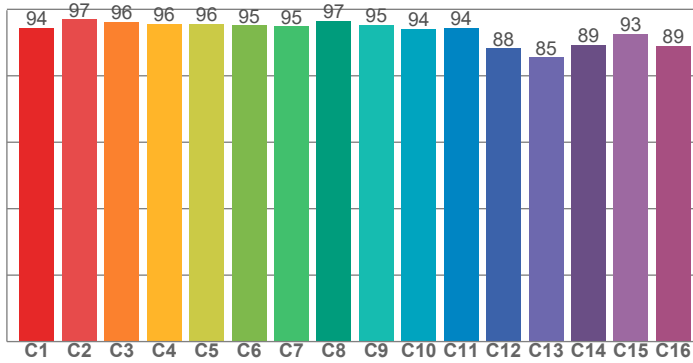
Cut off angle 2.5%: 88,2°

Spectra

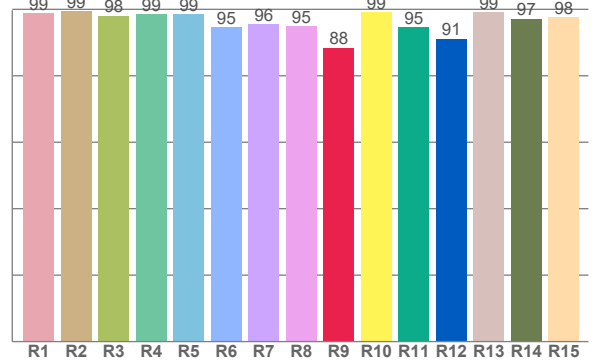




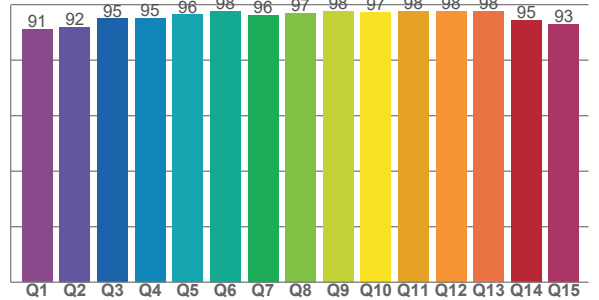
TM30: 93,8



CRI: 97,3 (R1-R8)



CQS: 94,9



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
98,8	99,4	98,1	98,6	98,5	94,6	95,6	94,9	88,4	99,1	94,7	91,1	99,1	97,1	97,6

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
94,4	97,0	96,3	95,7	95,6	95,2	94,8	96,5	95,3	94,1	94,5	88,2	85,5	89,3	92,6	88,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,1	91,9	95,0	95,2	96,5	97,8	96,3	96,9	97,8	97,3	97,8	97,8	97,6	94,5	93,1

COLOR PARAMETERS

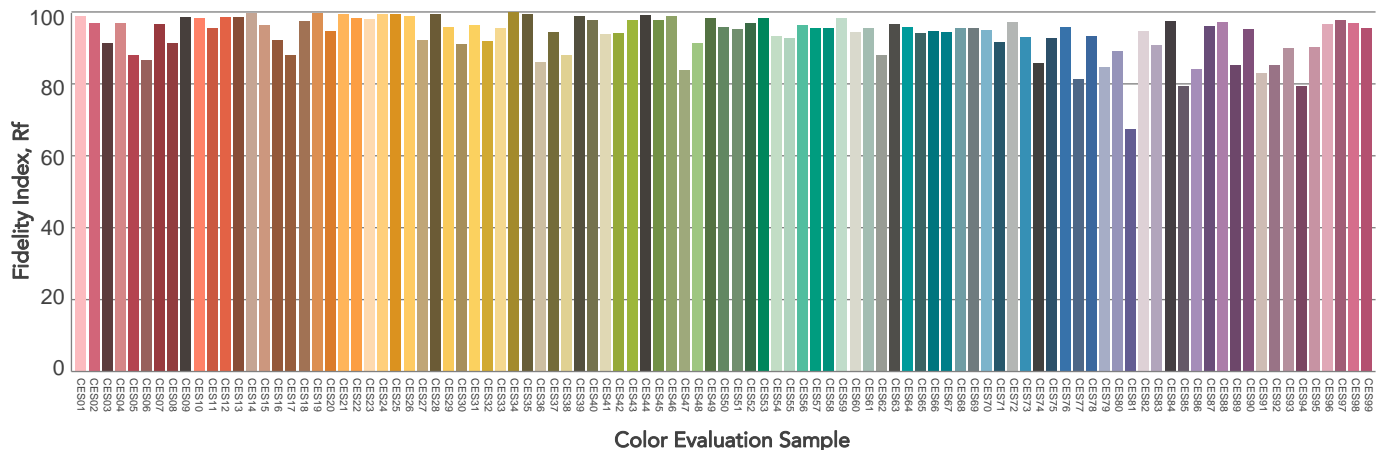
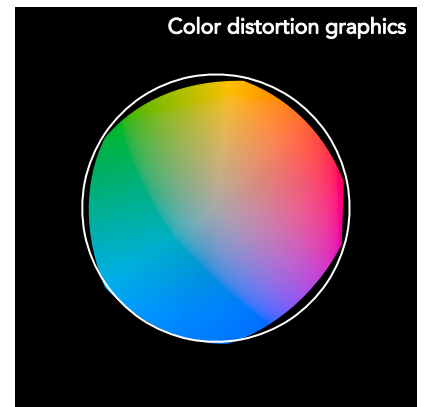
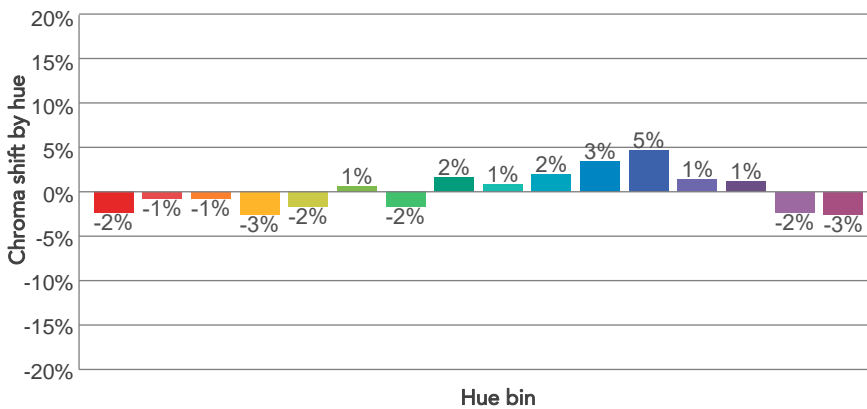
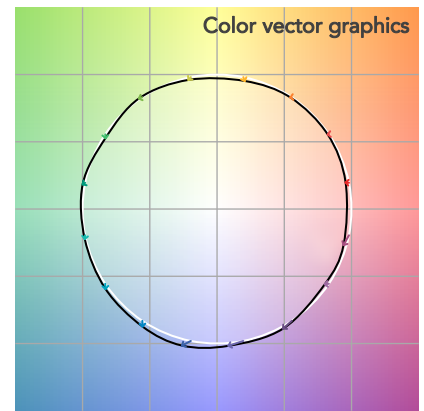
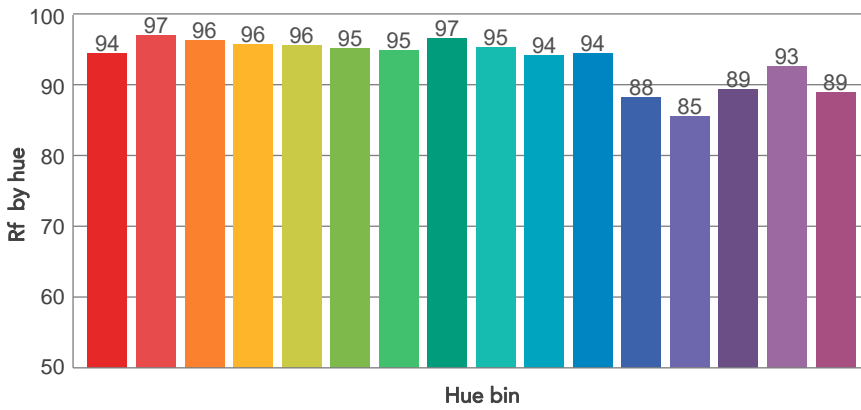
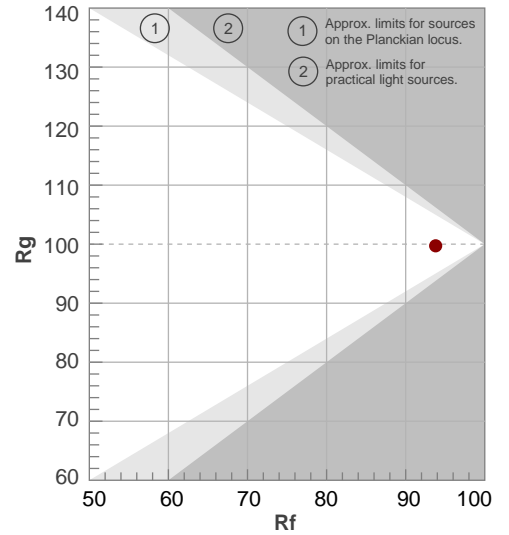
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2757 K	97,3	88,4	93,8	99,7	94,9	85	0,455	0,409	-0,0003

# TM30 DETAILS

**Rf 93,8**  
Fidelity index Rf

**Rg 99,7**  
Gammut index

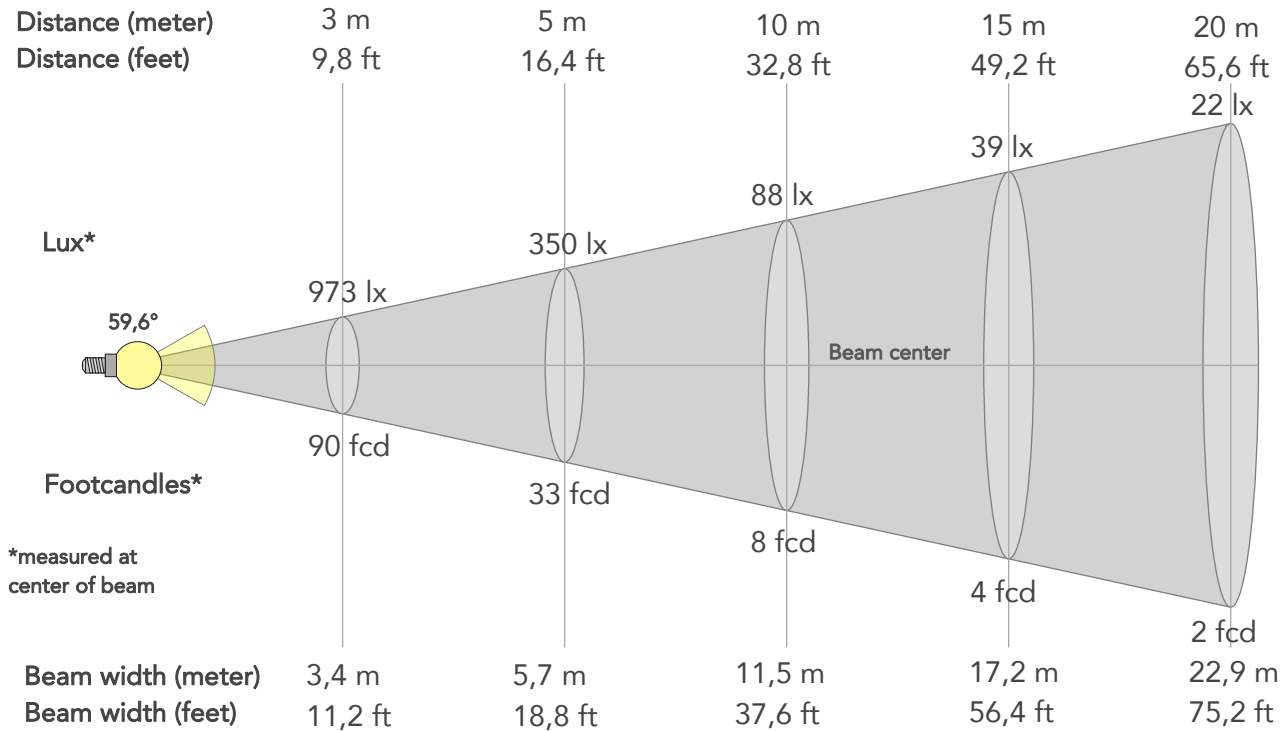
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	1%
2	97	-1%	0%
3	96	-1%	1%
4	96	-3%	-2%
5	96	-2%	2%
6	95	1%	3%
7	95	-2%	2%
8	97	2%	2%
9	95	1%	3%
10	94	2%	3%
11	94	3%	2%
12	88	5%	-6%
13	85	1%	-11%
14	89	1%	-9%
15	93	-2%	-2%
16	89	-3%	-8%



# BEAM DETAILS



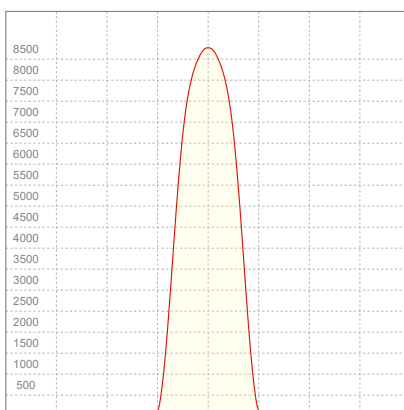
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,6°	80,7°	88,2°	100,0%	99,9%



## 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	8760lx	2190lx	973lx	548lx	350lx	156lx	88lx	39lx	22lx	14lx	10lx	5lx	4lx
Footcand.	814fcd	203fcd	90fcd	51fcd	33fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	1,1m	2,3m	3,4m	4,6m	5,7m	8,6m	11,5m	17,2m	22,9m	28,6m	34,4m	45,8m	57,3m
Beam wid.	3,8ft	7,6ft	11,2ft	15ft	18,8ft	28,2ft	37,6ft	56,4ft	75,2ft	94ft	112,8ft	150,3ft	187,9ft

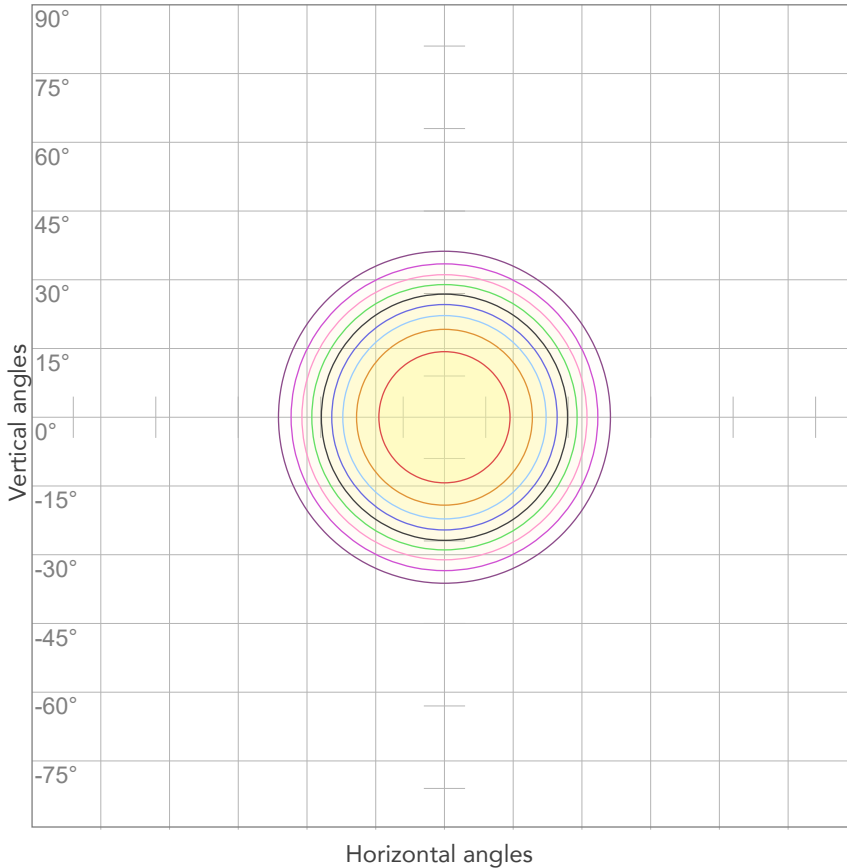
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,04A	230,8W	32lm/W

## ISO CANDELA DIAGRAM



10%	876 cd
20%	1752 cd
30%	2628 cd
40%	3504 cd
50%	4380 cd
60%	5256 cd
70%	6132 cd
80%	7008 cd

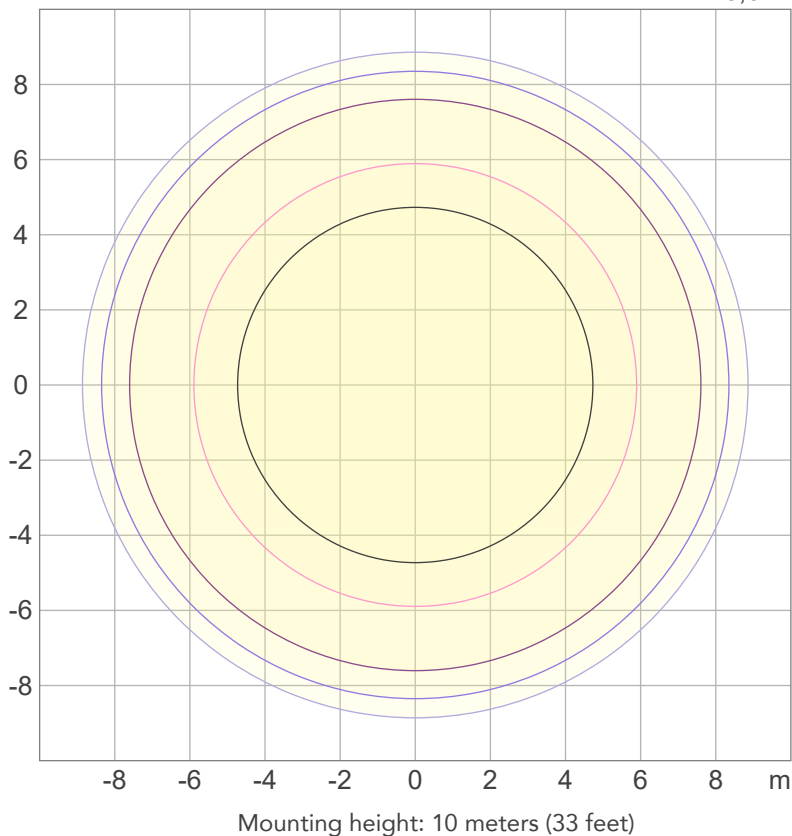
Conditions:

Number of c-planes: 2

Candela at center: 8760 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	2,63 lx
5%	4,38 lx
10%	8,76 lx
30%	26,3 lx
50%	43,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 87,6 lx

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





Total lumen output:

5736 lm

Peak candela output:

29472 cd

Light quality:

CRI: 97,4

Color temperature:

2771 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

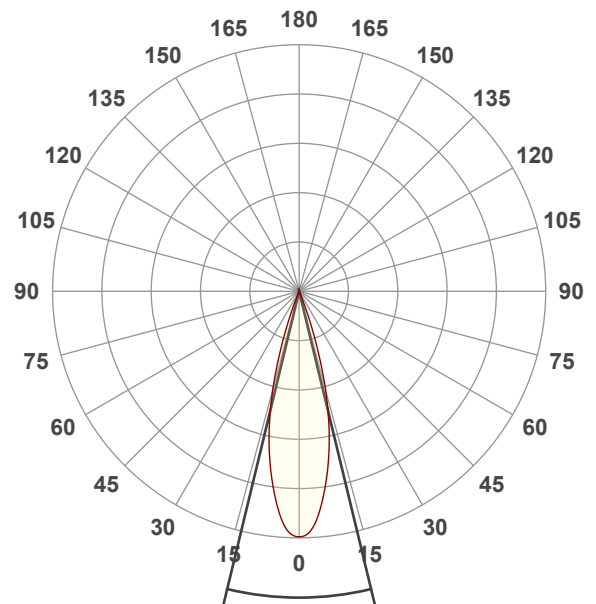
2800K

Operator:

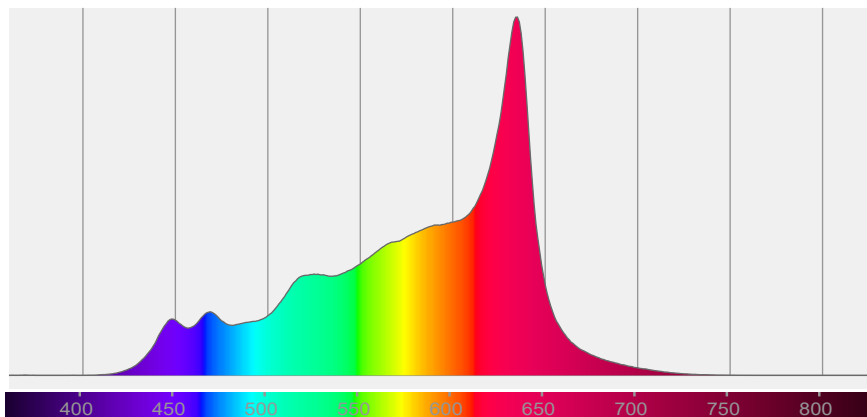
Salvatore Giglio

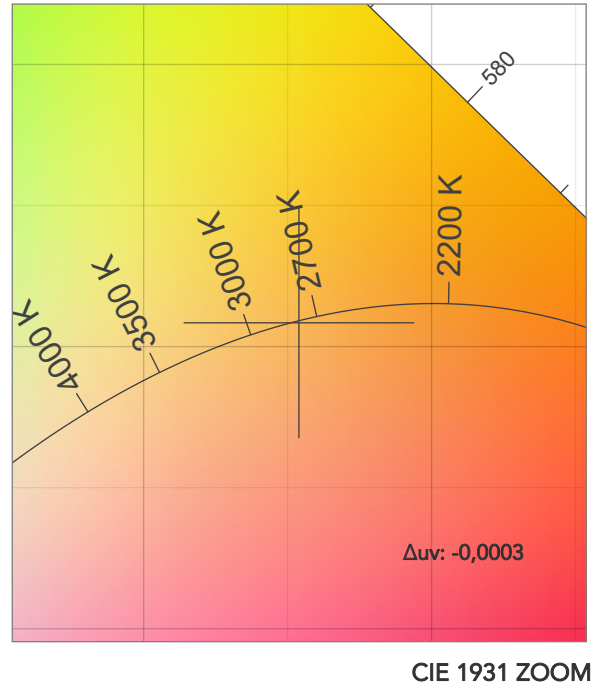
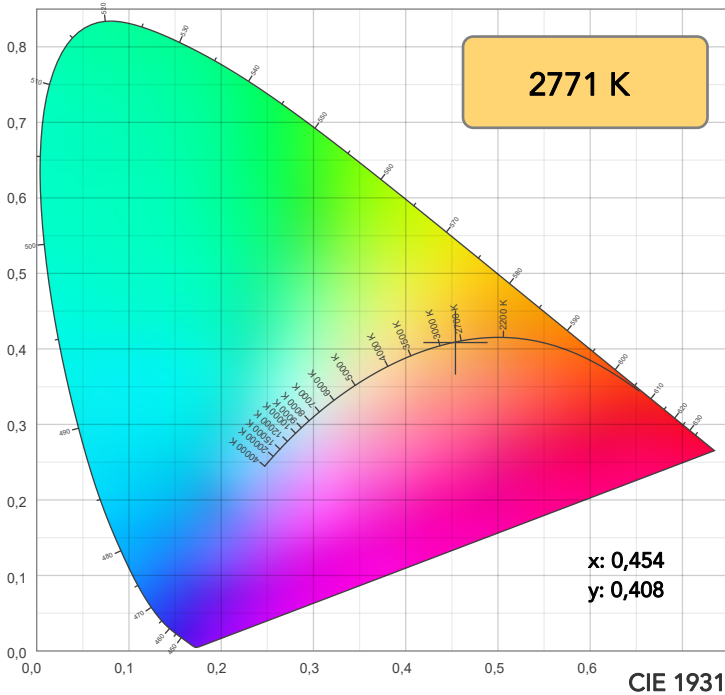
Date and time:

18/09/2023 12:52:48

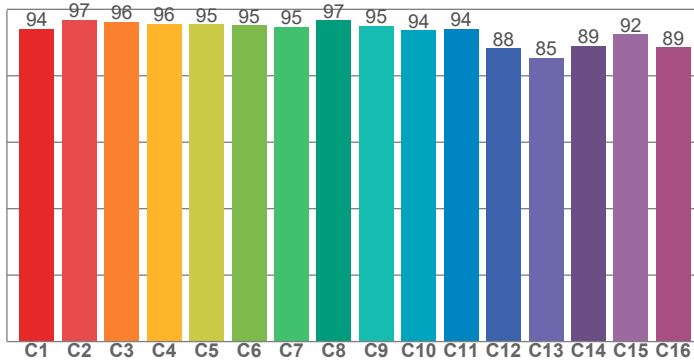


Spectra

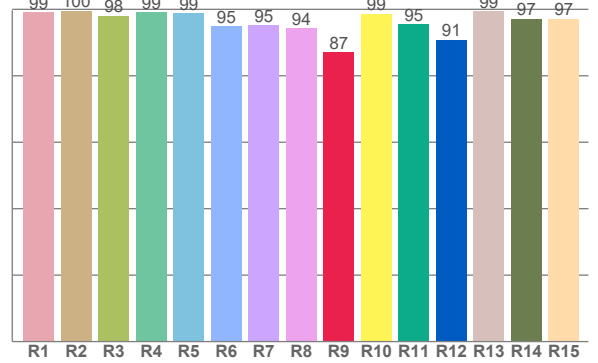




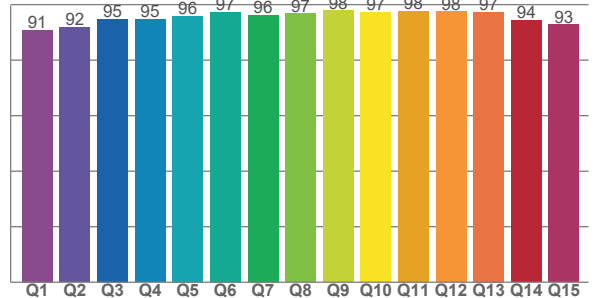
TM30: 93,6



CRI: 97,4 (R1-R8)



CQS: 94,7



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
99,1	99,5	98,1	99,1	98,8	94,9	95,3	94,3	87,1	98,7	95,5	90,8	99,5	97,2	97,2

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
94,1	96,8	96,3	95,6	95,5	95,2	94,7	96,7	95,0	93,7	94,2	88,2	85,4	89,1	92,4	88,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,8	91,8	94,8	94,7	96,0	97,4	96,3	96,8	97,9	97,2	97,6	97,6	97,4	94,3	92,8

COLOR PARAMETERS

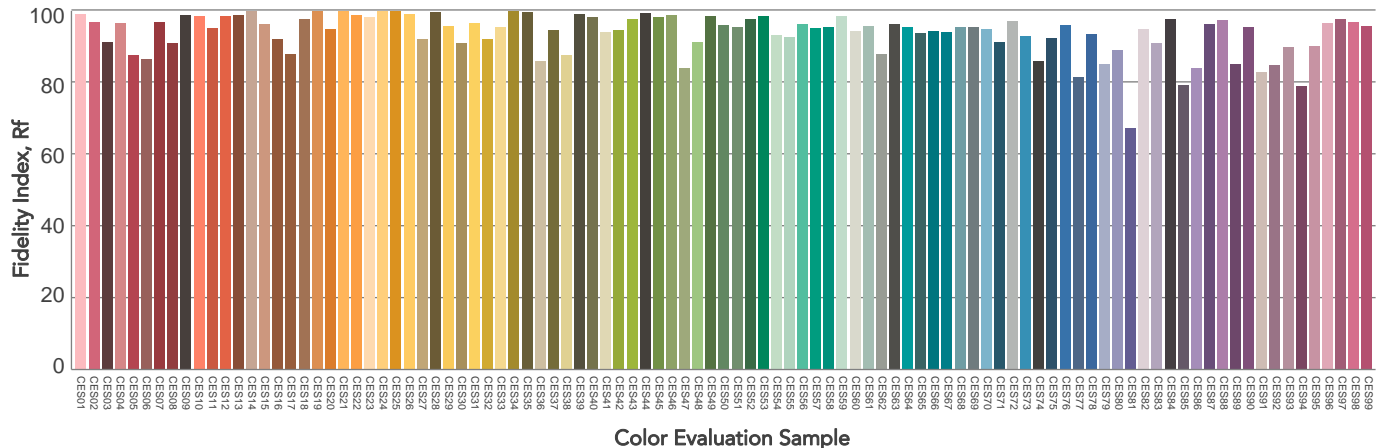
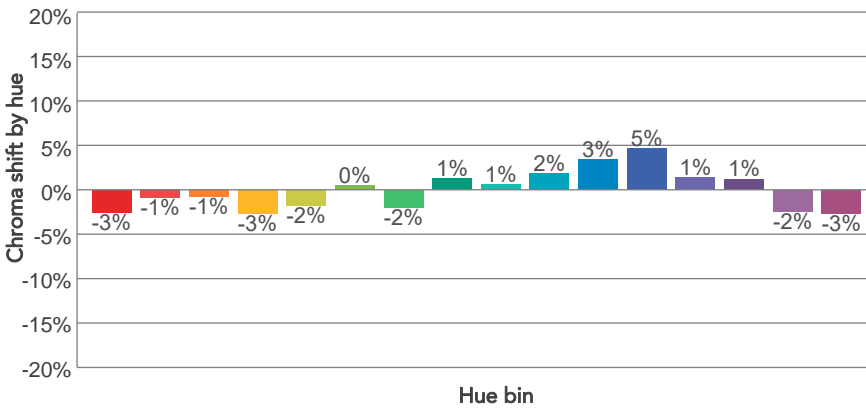
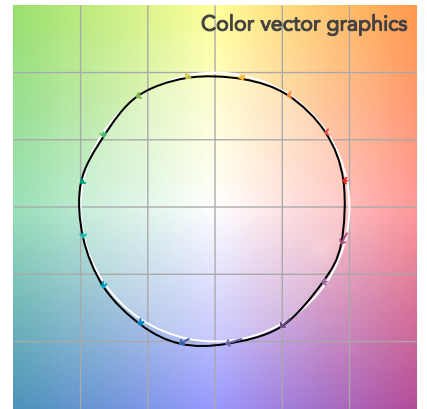
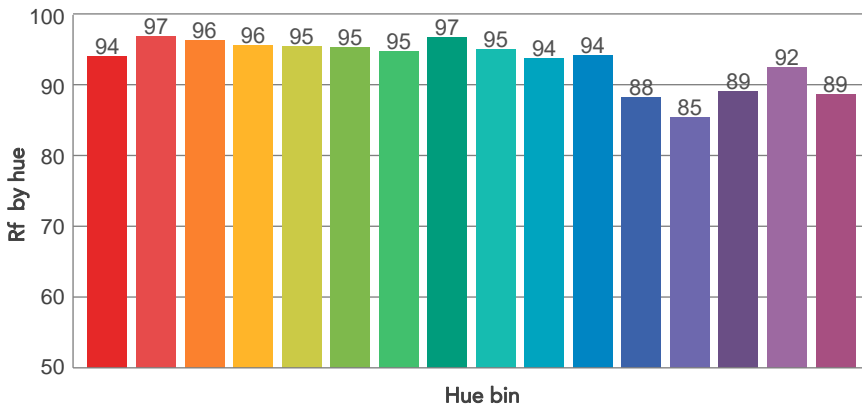
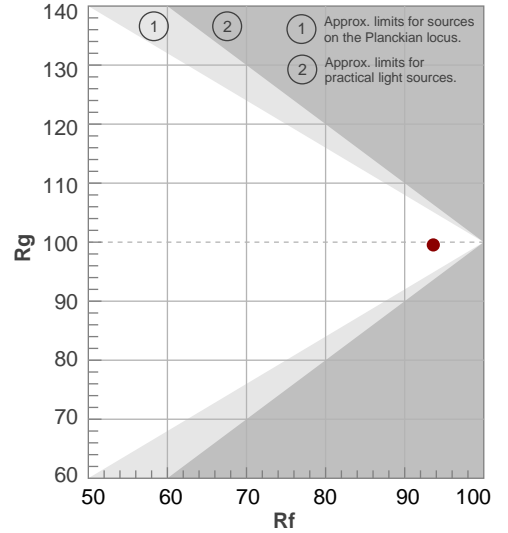
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2771 K	97,4	87,1	93,6	99,5	94,7	85	0,454	0,408	-0,0003

# TM30 DETAILS

**Rf 93,6**  
Fidelity index Rf

**Rg 99,5**  
Gammut index

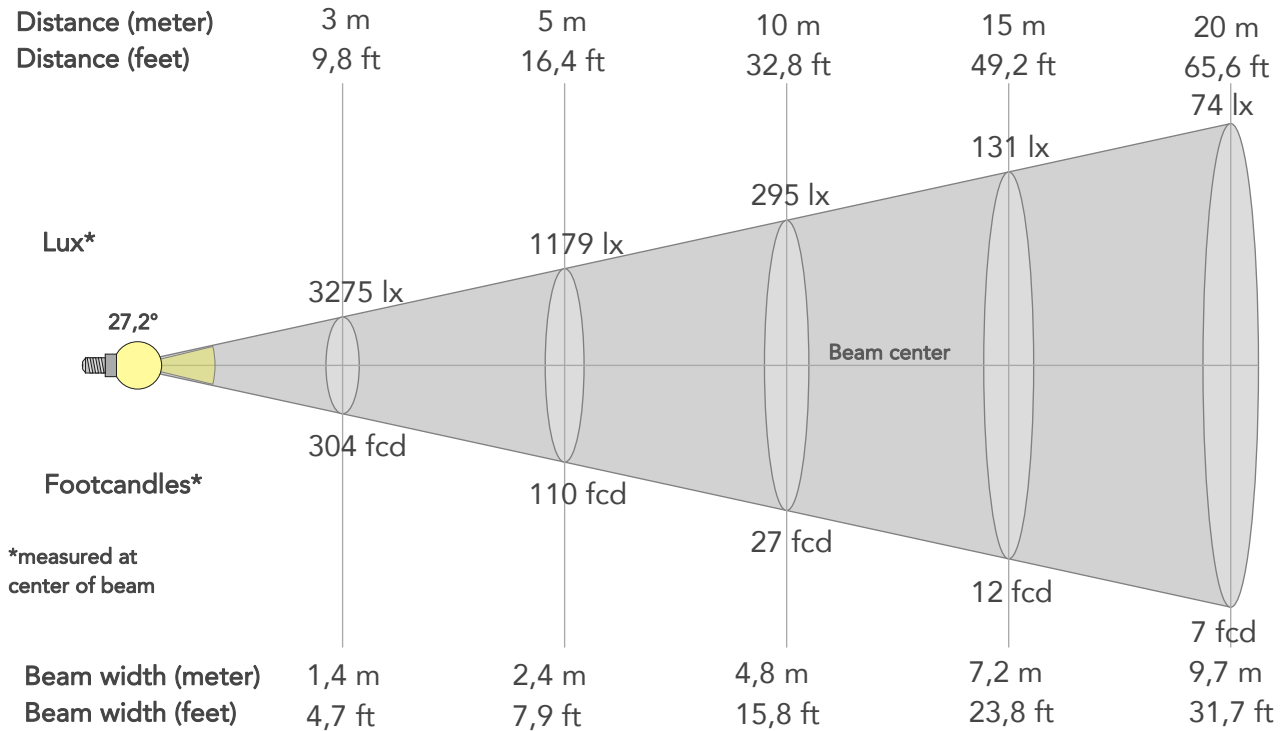
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	1%
2	97	-1%	0%
3	96	-1%	1%
4	96	-3%	-2%
5	95	-2%	2%
6	95	0%	3%
7	95	-2%	2%
8	97	1%	2%
9	95	1%	3%
10	94	2%	4%
11	94	3%	3%
12	88	5%	-6%
13	85	1%	-12%
14	89	1%	-9%
15	92	-2%	-2%
16	89	-3%	-8%



# BEAM DETAILS



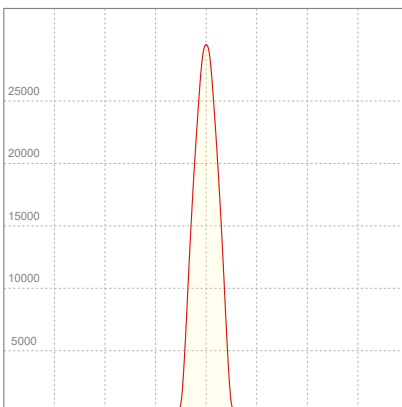
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,2°	40,6°	45,4°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	29472lx	7368lx	3275lx	1842lx	1179lx	524lx	295lx	131lx	74lx	47lx	33lx	18lx	12lx
Footcand.	2738fcd	685fcd	304fcd	171fcd	110fcd	49fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,5m	1m	1,4m	1,9m	2,4m	3,6m	4,8m	7,2m	9,7m	12,1m	14,5m	19,3m	24,2m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,9ft	15,8ft	23,8ft	31,7ft	39,6ft	47,5ft	63,4ft	79,2ft

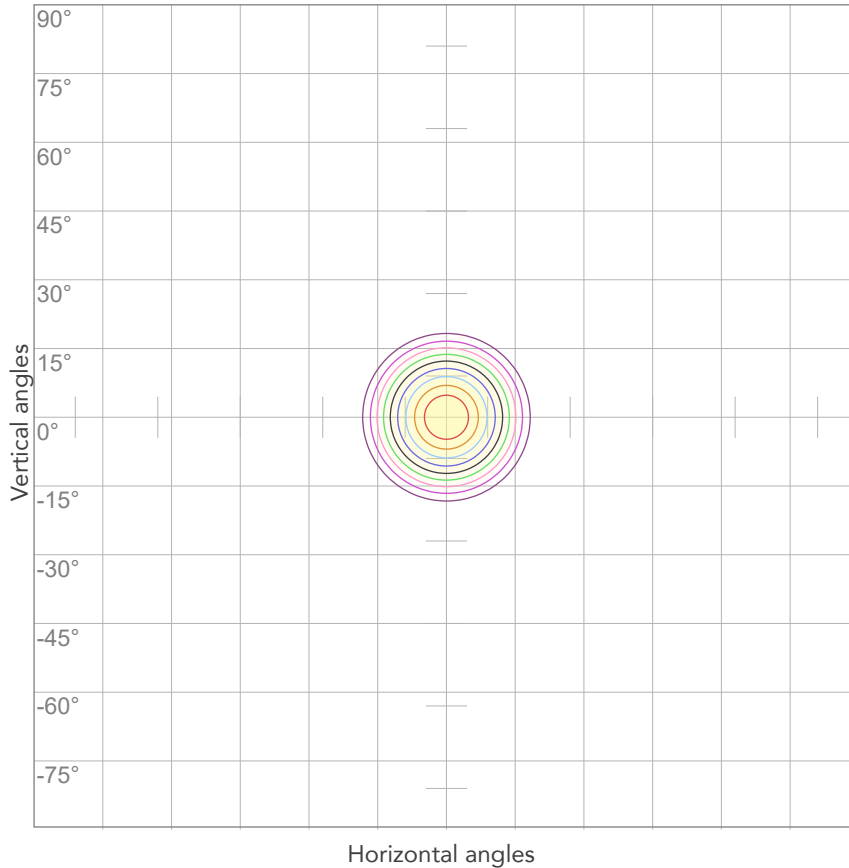
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,04A	231,6W	25lm/W

## ISO CANDELA DIAGRAM



10%	2947 cd
20%	5894 cd
30%	8842 cd
40%	11789 cd
50%	14736 cd
60%	17683 cd
70%	20630 cd
80%	23577 cd

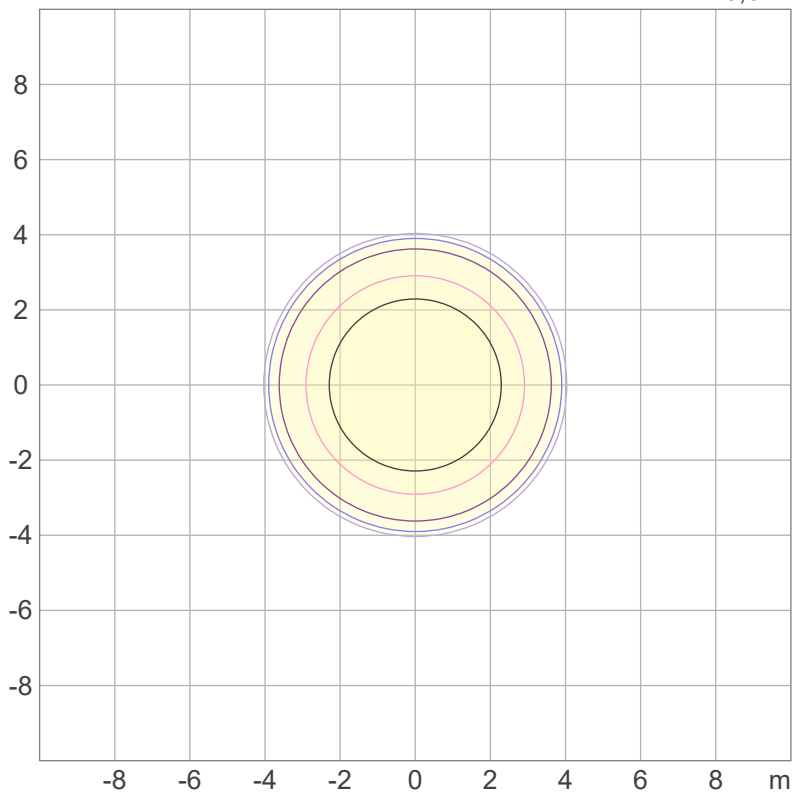
Conditions:

Number of c-planes: 2

Candela at center: 29472 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 2

Lux at center: 295 lx

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



Total lumen output:

2969 lm

Peak candela output:

111744 cd

Light quality:

CRI: 97,3

Color temperature:

2760 K

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Min Zoom

Target:

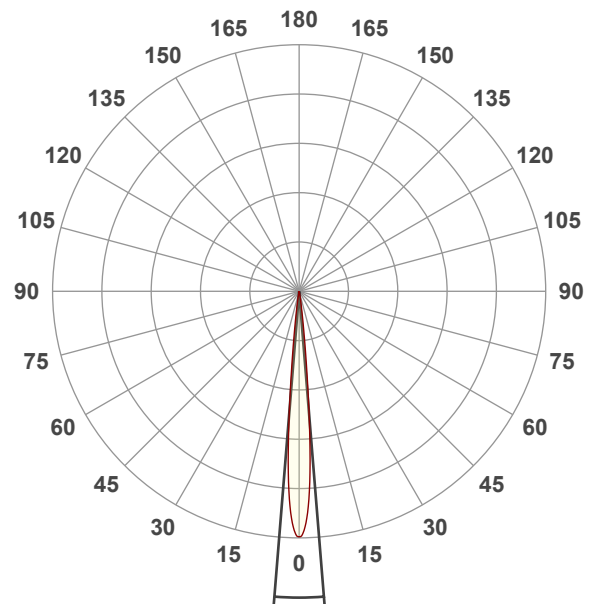
2800K

Operator:

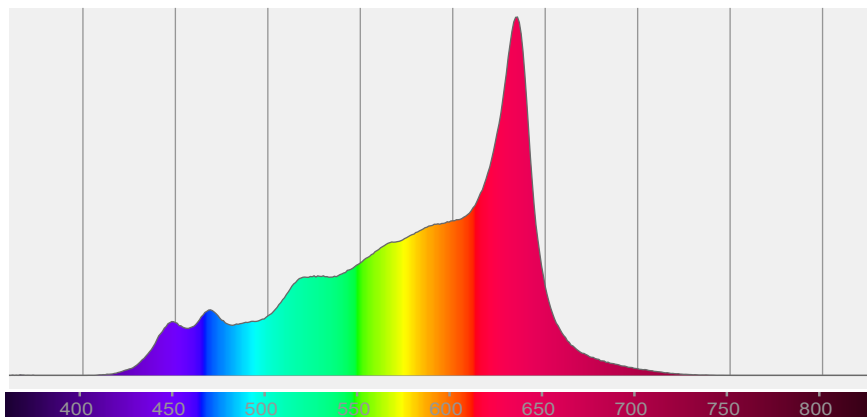
Salvatore Giglio

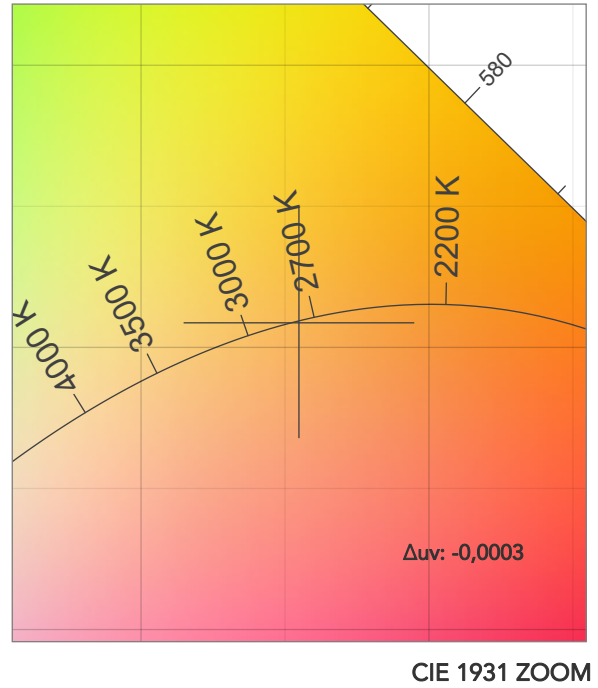
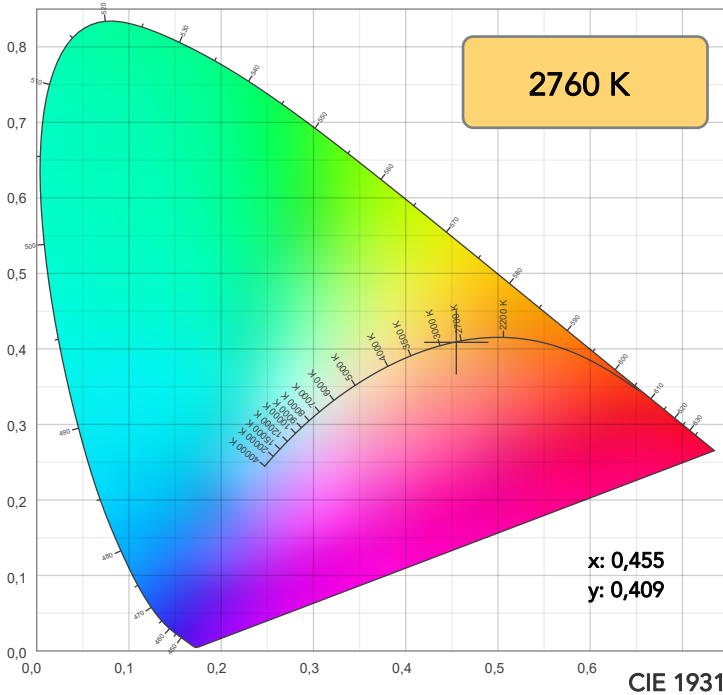
Date and time:

18/09/2023 13:24:13

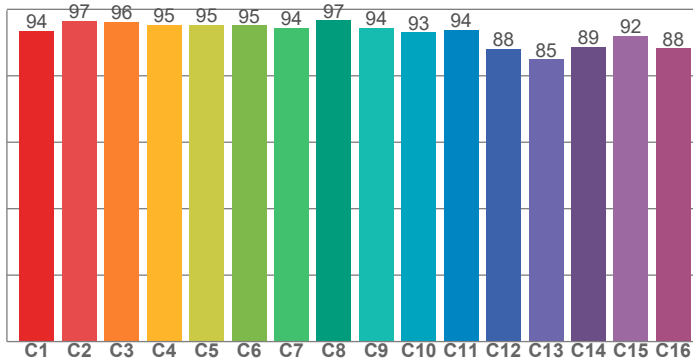


Spectra

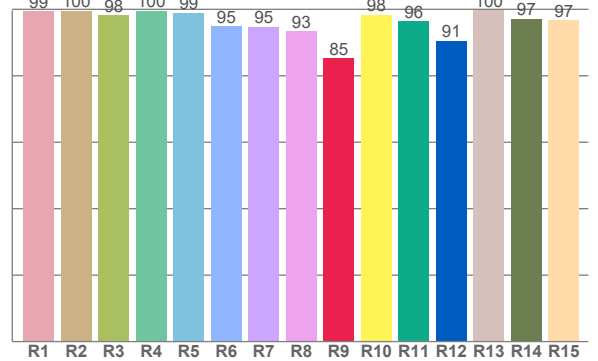




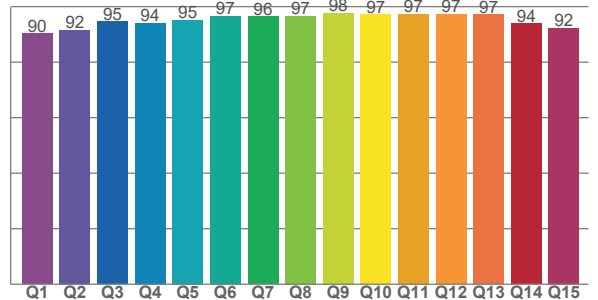
TM30: 93,3



CRI: 97,3 (R1-R8)



CQS: 94,4



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
99,4	99,6	98,2	99,6	99,0	94,9	94,8	93,3	85,3	98,4	96,4	90,5	99,7	97,2	96,7

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
93,6	96,6	96,2	95,3	95,4	95,1	94,3	96,6	94,4	93,1	93,9	88,0	84,9	88,7	92,1	88,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,3	91,6	94,6	94,2	95,2	96,6	96,4	96,6	97,8	97,1	97,3	97,3	97,1	93,9	92,3

COLOR PARAMETERS

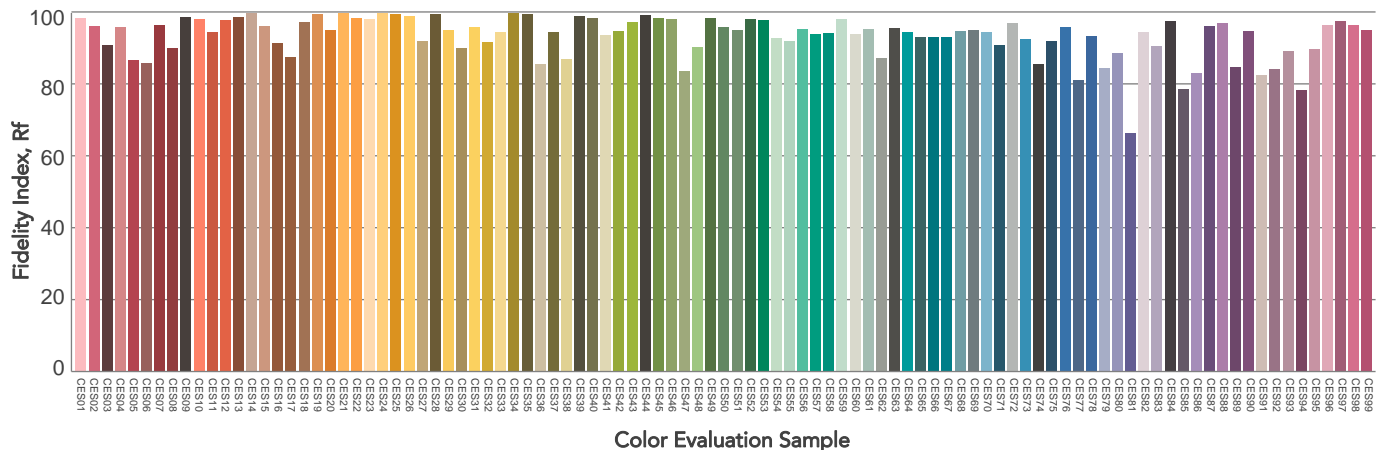
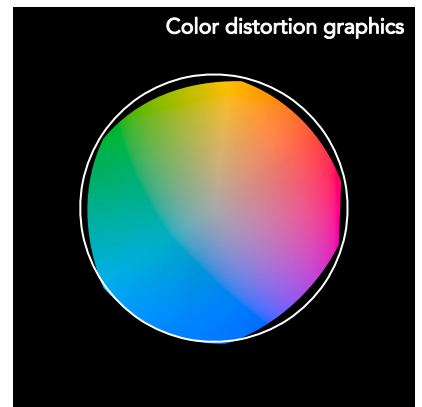
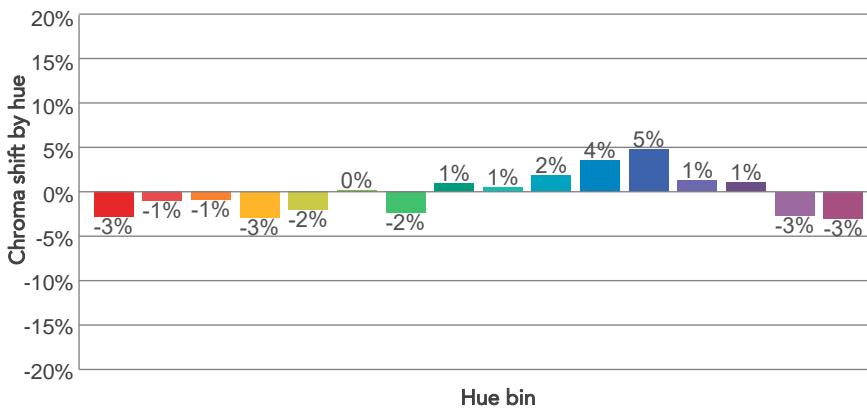
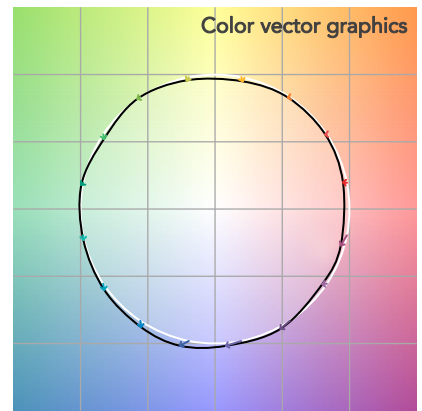
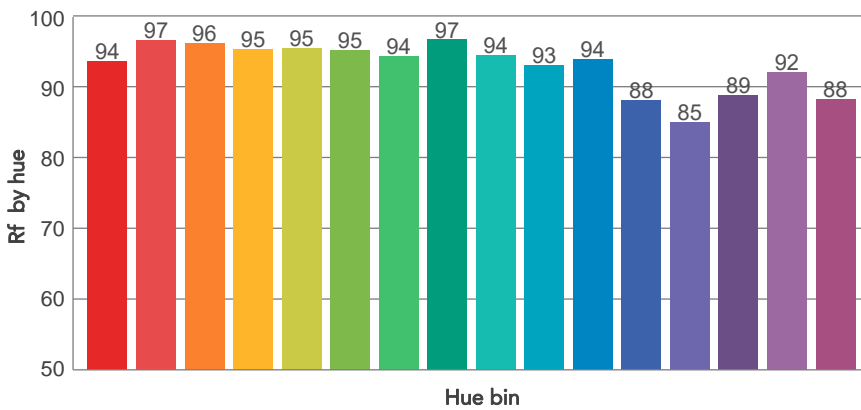
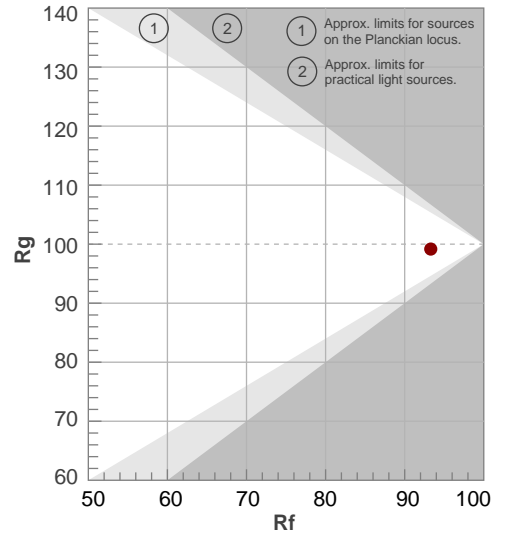
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2760 K	97,3	85,3	93,3	99,2	94,4	85	0,455	0,409	-0,0003

# TM30 DETAILS

**Rf 93,3**  
Fidelity index Rf

**Rg 99,2**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	1%
2	97	-1%	1%
3	96	-1%	1%
4	95	-3%	-2%
5	95	-2%	2%
6	95	0%	3%
7	94	-2%	3%
8	97	1%	2%
9	94	1%	3%
10	93	2%	4%
11	94	4%	3%
12	88	5%	-6%
13	85	1%	-12%
14	89	1%	-9%
15	92	-3%	-2%
16	88	-3%	-8%

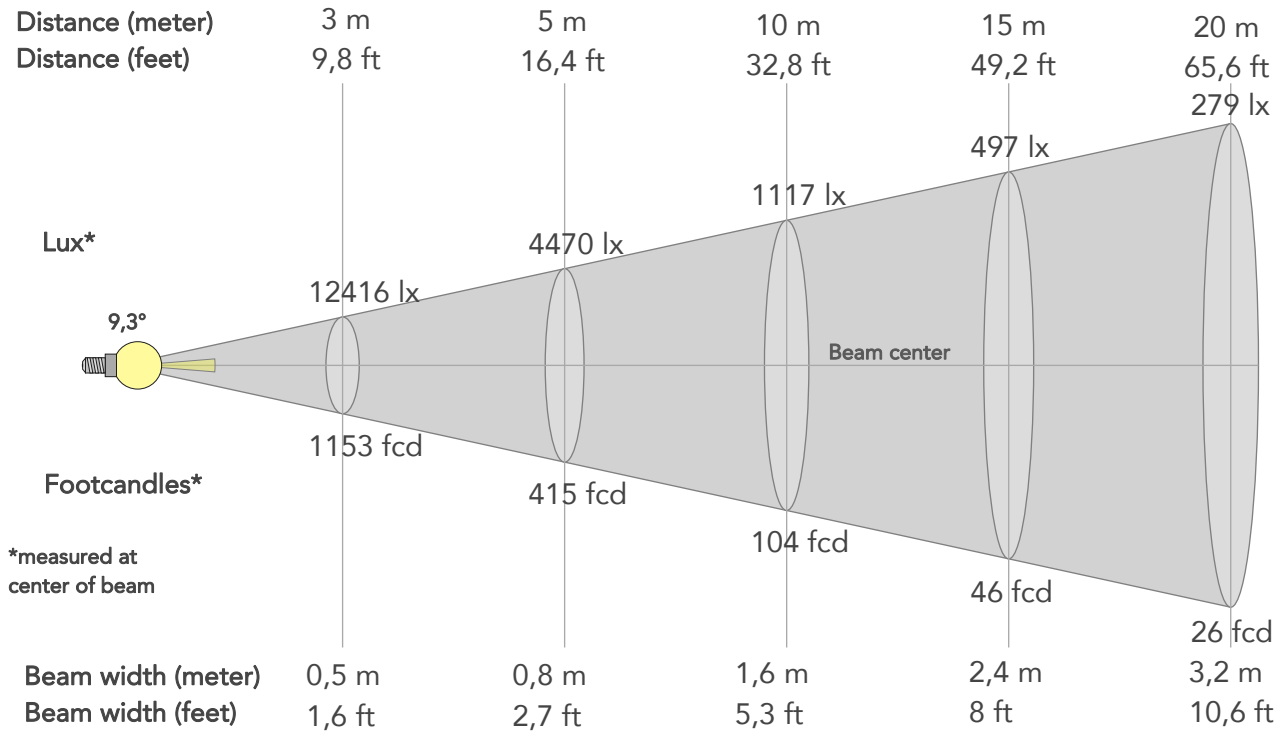




# BEAM DETAILS



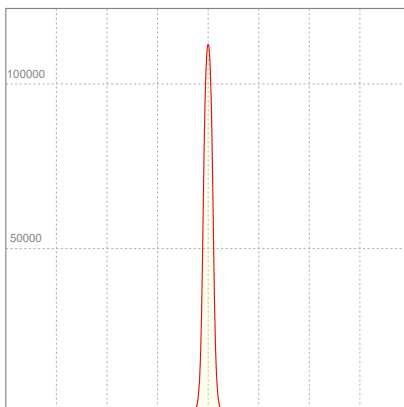
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,3°	15°	19,6°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	111744lx	27936lx	12416lx	6984lx	4470lx	1987lx	1117lx	497lx	279lx	179lx	124lx	70lx	45lx
Footcand.	10381fcd	2595fcd	1153fcd	649fcd	415fcd	185fcd	104fcd	46fcd	26fcd	17fcd	12fcd	6fcd	4fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,2m	1,6m	2,4m	3,2m	4,1m	4,9m	6,5m	8,1m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,3ft	8ft	10,6ft	13,3ft	16ft	21,3ft	26,6ft

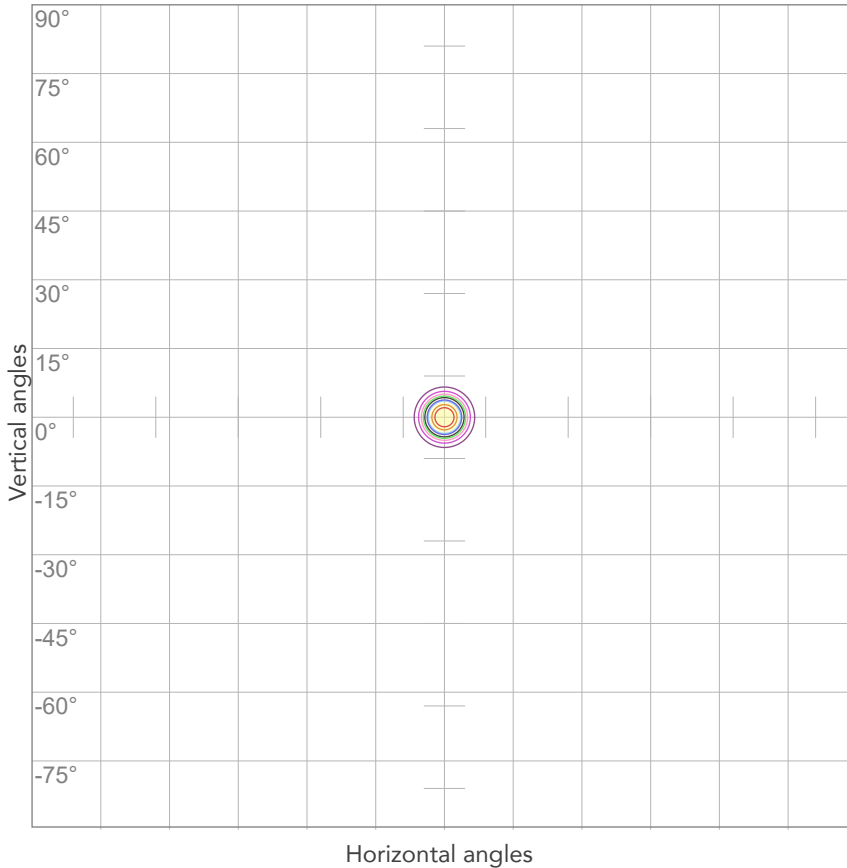
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,04A	231,2W	13lm/W

## ISO CANDELA DIAGRAM



10%	11174 cd
20%	22349 cd
30%	33523 cd
40%	44698 cd
50%	55872 cd
60%	67046 cd
70%	78221 cd
80%	89395 cd

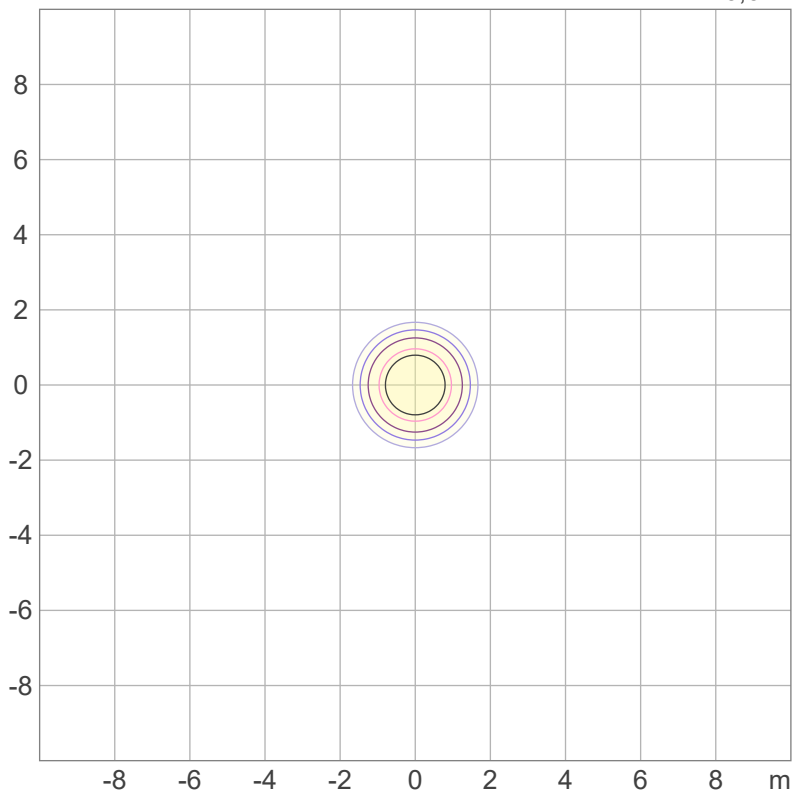
Conditions:

Number of c-planes: 2

Candela at center: 111744 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	33,5 lx
5%	55,9 lx
10%	112 lx
30%	335 lx
50%	559 lx

Conditions:

Number of c-planes: 2

Lux at center: 1117 lx

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



Total lumen output:

7744 lm

Peak candela output:

8993 cd

Light quality:

CRI: 97,1

Color temperature:

3167 K

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Max Zoom

Target:

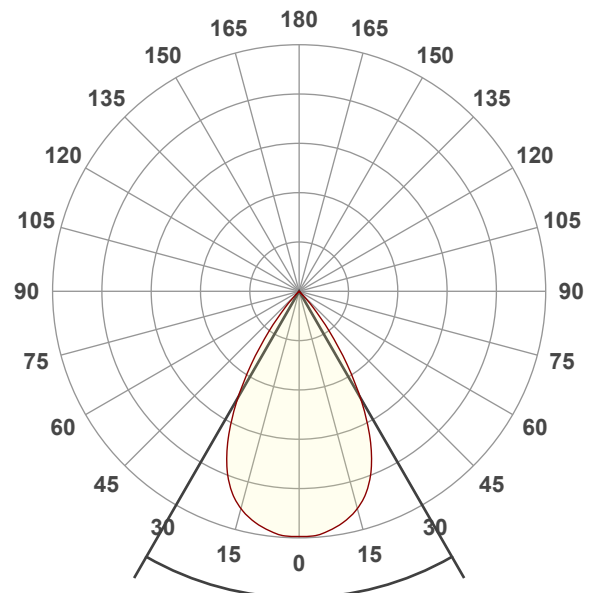
3200K

Operator:

Salvatore Giglio

Date and time:

18/09/2023 13:28:36

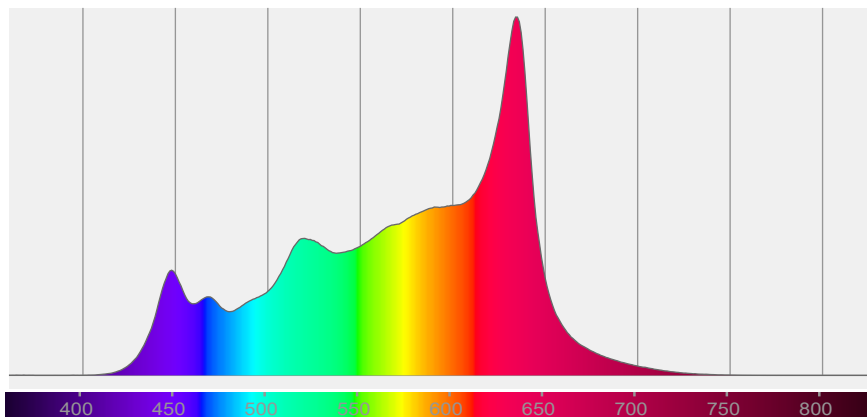


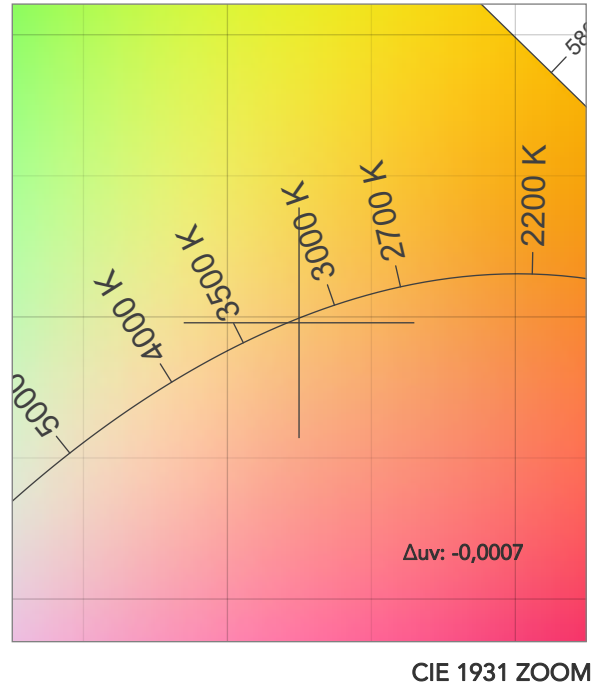
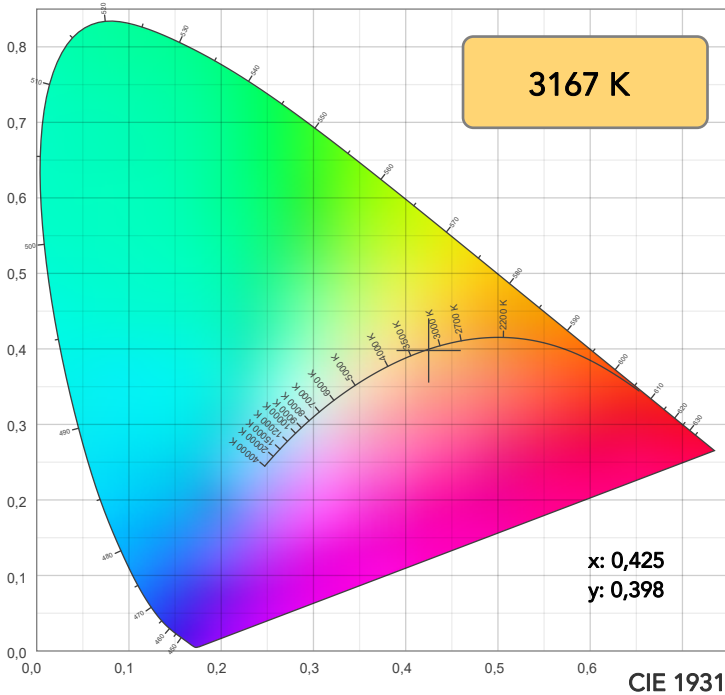
Beam angle 50%: 59,8°

Field angle 10%: 80,7°

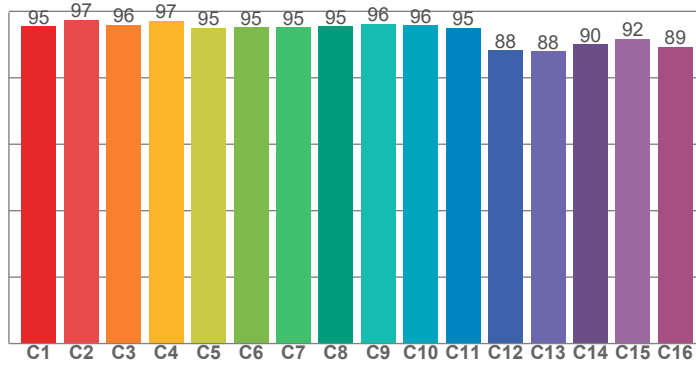
Cut off angle 2.5%: 88,3°

Spectra

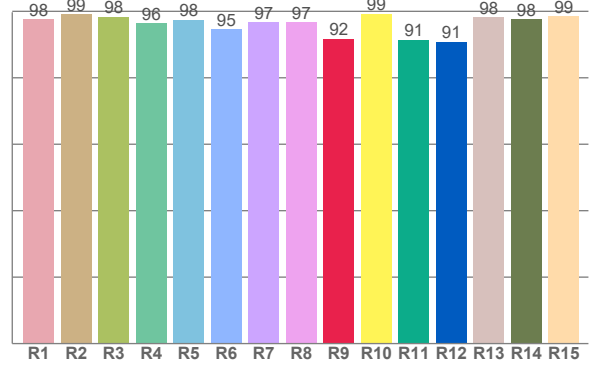




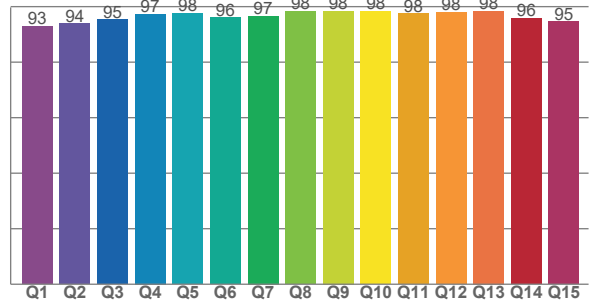
TM30: 94,4



CRI: 97,1 (R1-R8)



CQS: 96,0



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
97,7	99,2	98,4	96,4	97,5	94,5	96,7	96,7	91,7	99,3	91,4	90,8	98,1	97,6	98,6

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
95,5	97,4	95,9	97,2	95,1	95,2	95,2	95,5	96,3	95,7	95,0	88,2	88,0	90,1	91,6	89,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,9	93,9	95,3	97,3	97,6	96,1	96,6	98,3	98,4	98,3	97,5	98,0	98,4	95,8	94,6

COLOR PARAMETERS

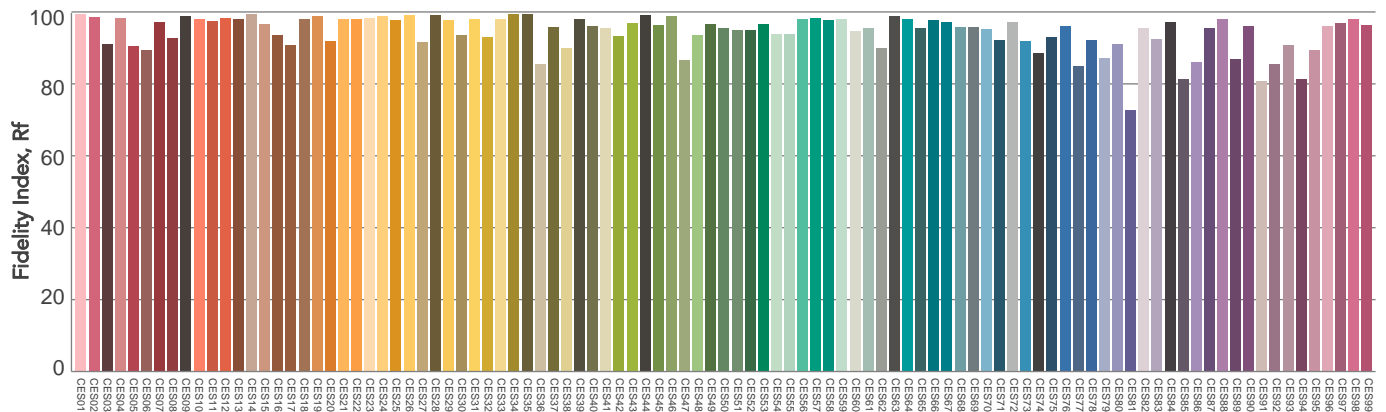
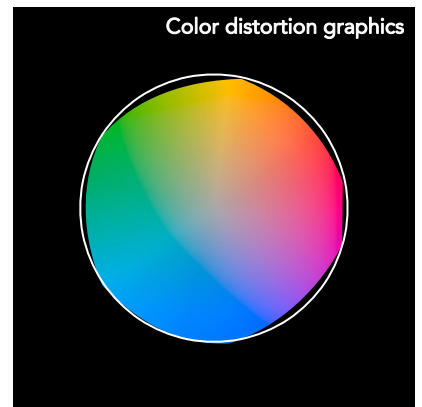
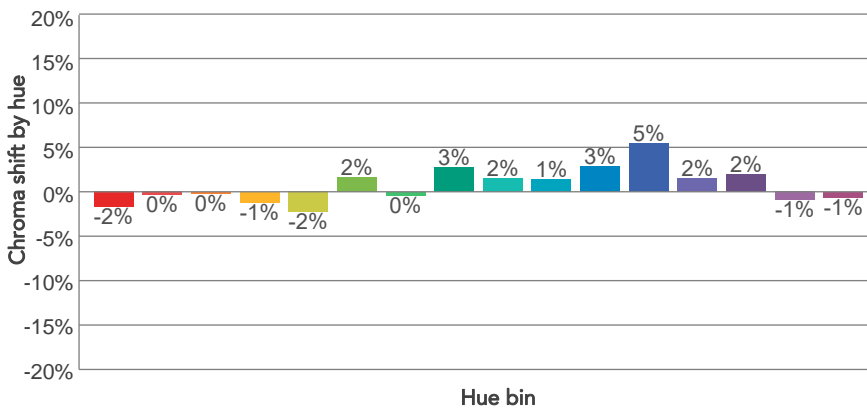
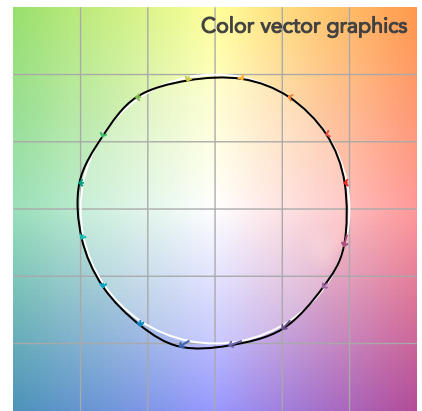
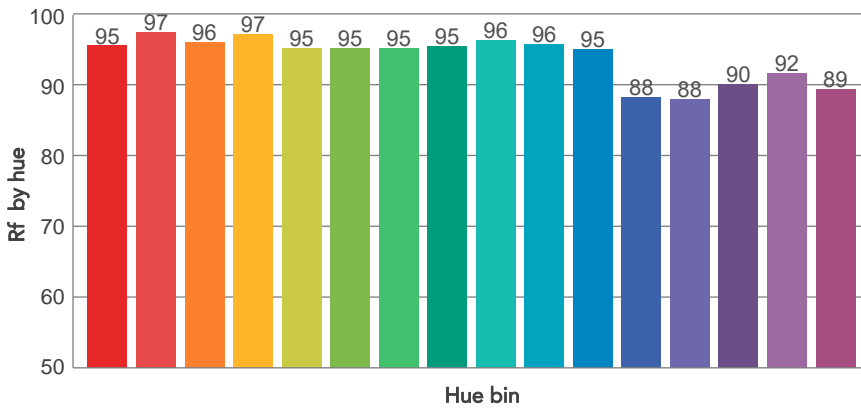
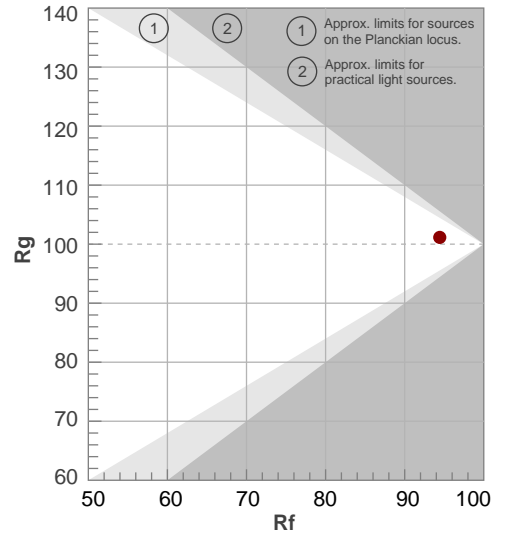
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3167 K	97,1	91,7	94,4	101,1	96,0	88	0,425	0,398	-0,0007

# TM30 DETAILS

**Rf 94,4**  
Fidelity index Rf

**Rg 101,1**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	97	0%	0%
3	96	0%	1%
4	97	-1%	-1%
5	95	-2%	1%
6	95	2%	3%
7	95	0%	2%
8	95	3%	1%
9	96	2%	2%
10	96	1%	2%
11	95	3%	2%
12	88	5%	-6%
13	88	2%	-9%
14	90	2%	-8%
15	92	-1%	-4%
16	89	-1%	-8%

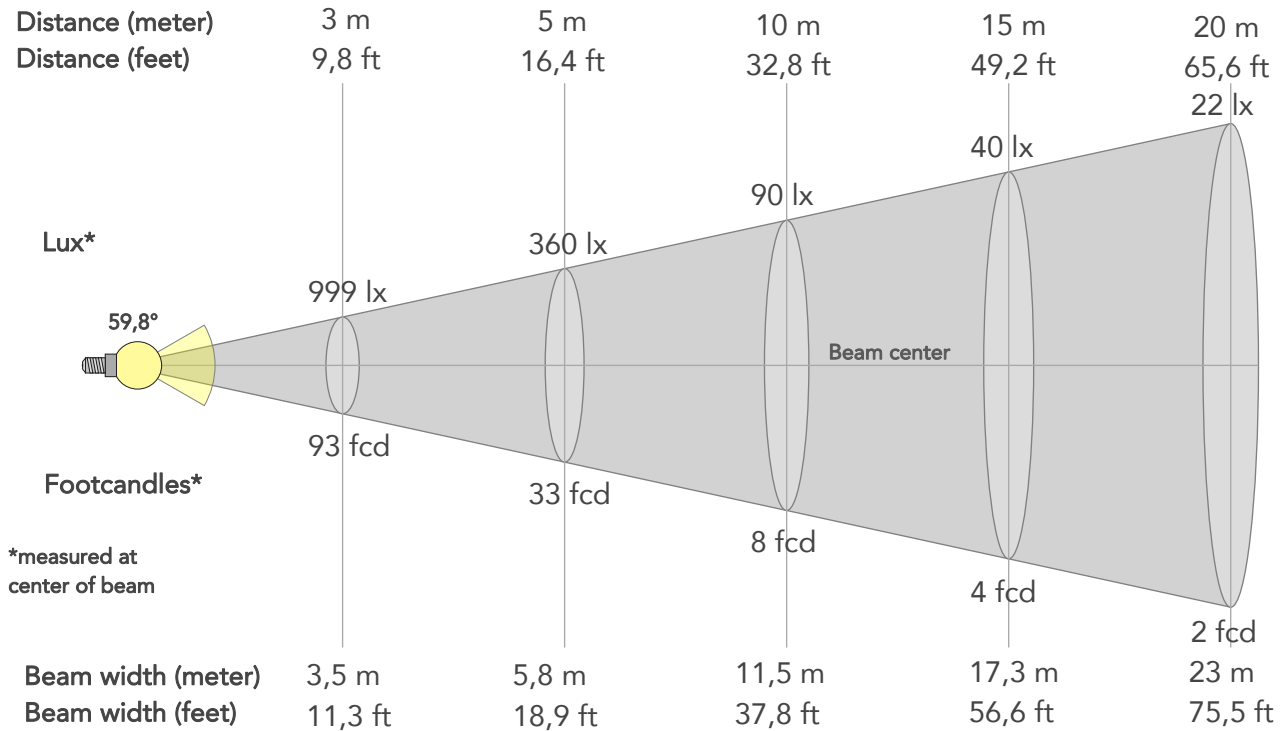


Color Evaluation Sample

# BEAM DETAILS



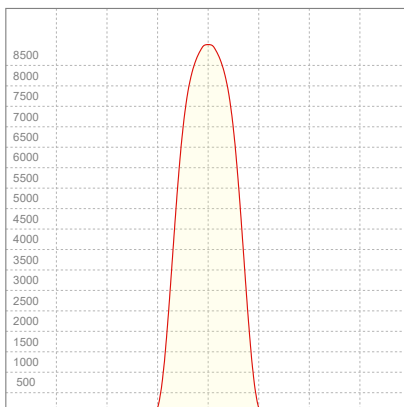
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,8°	80,7°	88,3°	100,0%	99,7%



## 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	8993lx	2248lx	999lx	562lx	360lx	160lx	90lx	40lx	22lx	14lx	10lx	6lx	4lx
Footcand.	835fcd	209fcd	93fcd	52fcd	33fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,6m	11,5m	17,3m	23m	28,8m	34,5m	46m	57,6m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	18,9ft	28,3ft	37,8ft	56,6ft	75,5ft	94,4ft	113,3ft	151ft	188,8ft

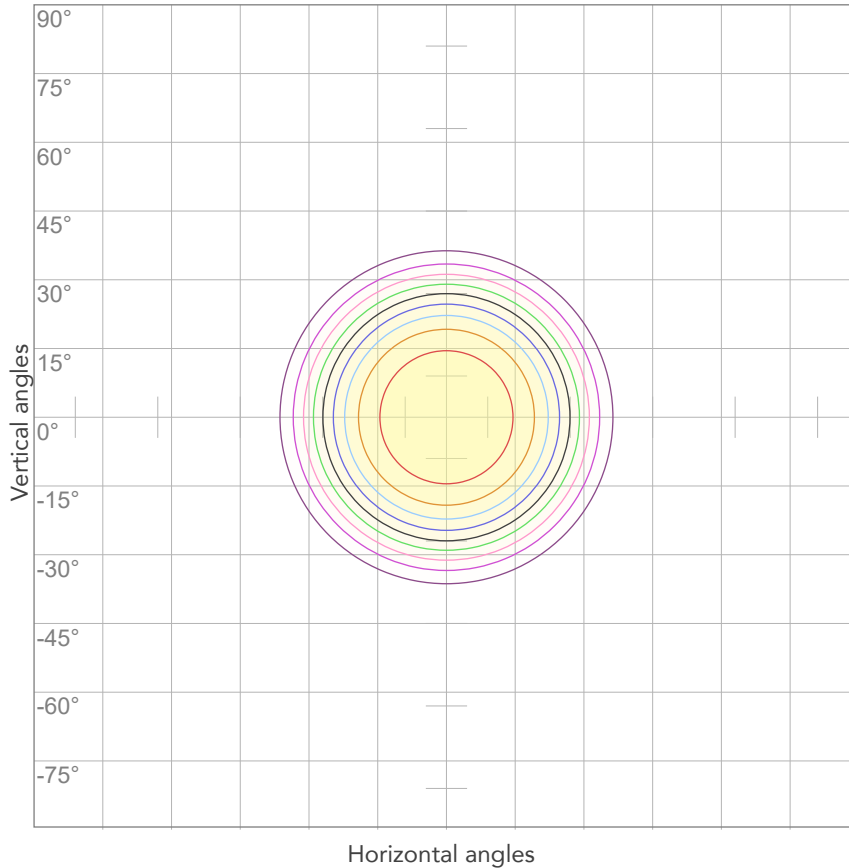
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,08A	240W	32lm/W

## ISO CANDELA DIAGRAM



10%	899 cd
20%	1799 cd
30%	2698 cd
40%	3597 cd
50%	4497 cd
60%	5396 cd
70%	6295 cd
80%	7195 cd

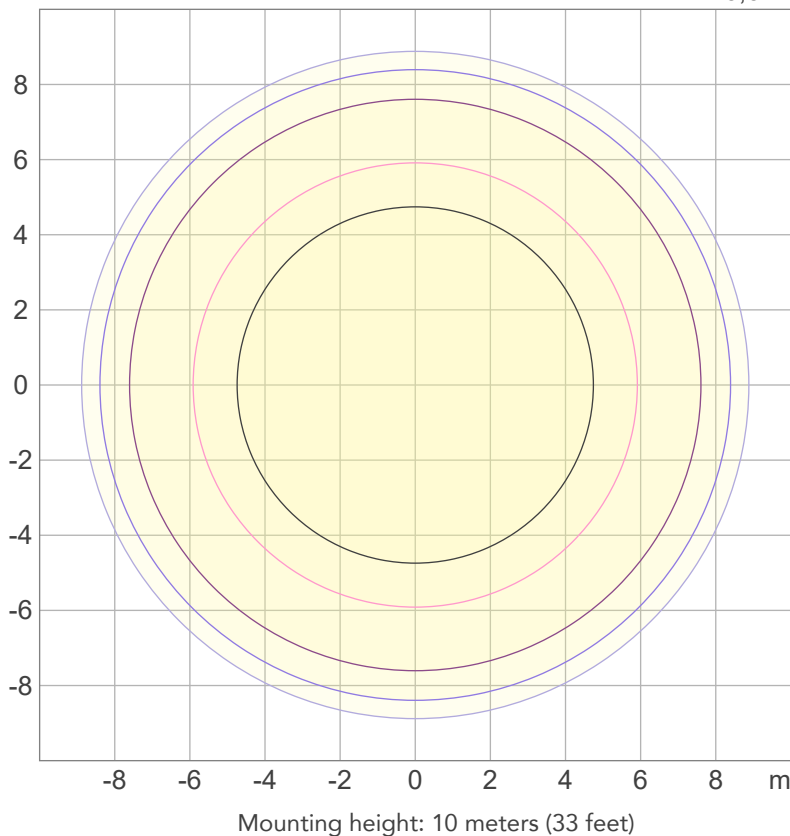
Conditions:

Number of c-planes: 2

Candela at center: 8993 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	2,70 lx
5%	4,50 lx
10%	8,99 lx
30%	27,0 lx
50%	45,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 89,9 lx

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



Total lumen output:

5916 lm

Peak candela output:

30353 cd

Light quality:

CRI: 97,2

Color temperature:

3178 K

**PRODUCT NAME:**  
**ECLFRCTPM**

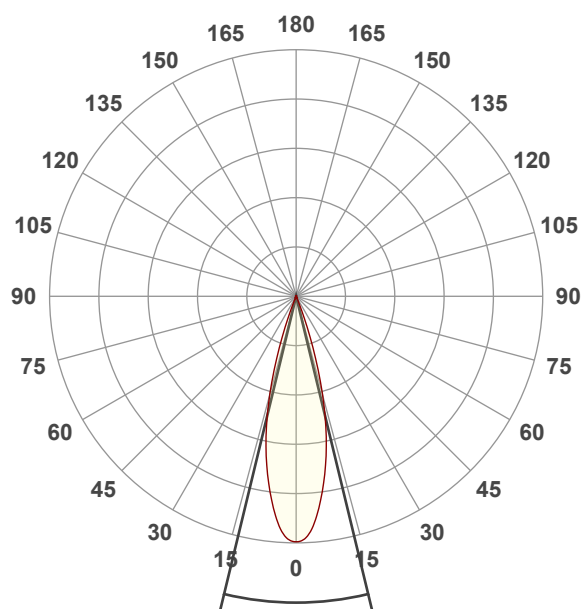
**MEASURAMENT CONDITIONS:**

Beam angle:  
Med Zoom

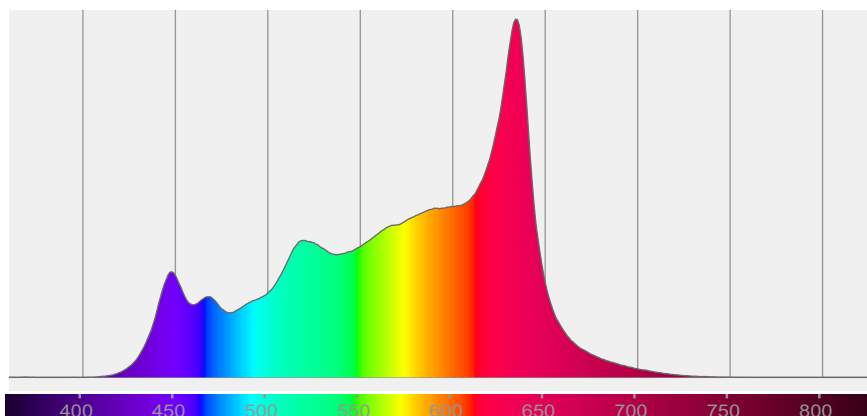
Target:  
3200K

Operator:  
Salvatore Giglio

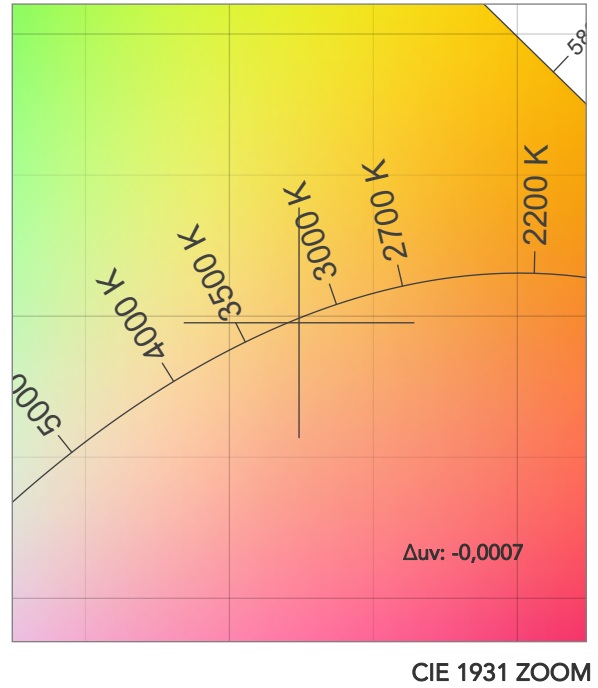
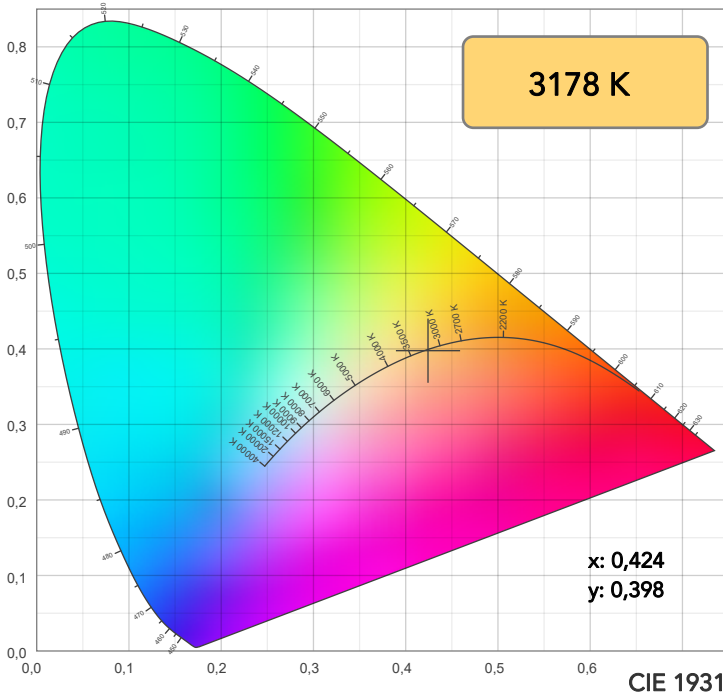
Date and time:  
18/09/2023 12:51:23



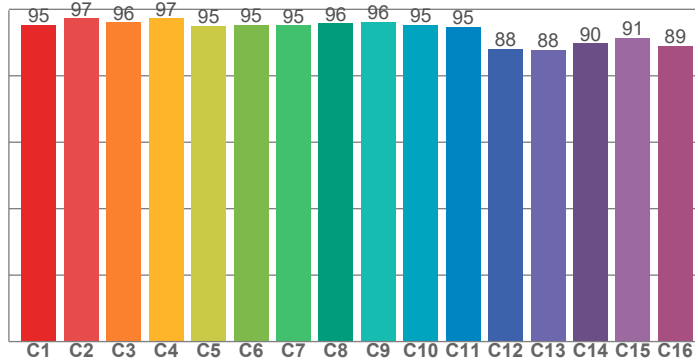
Spectra



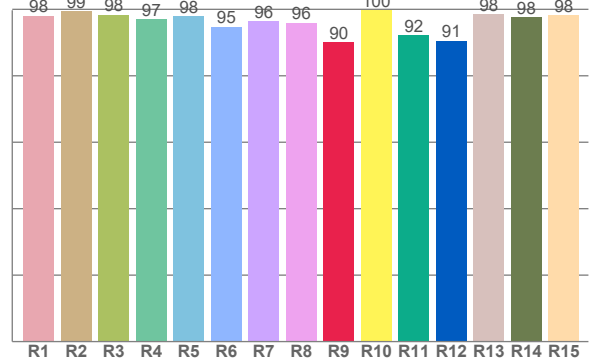




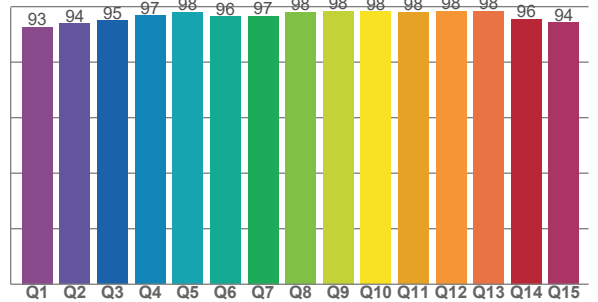
TM30: 94,3



CRI: 97,2 (R1-R8)



CQS: 95,9



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
98,1	99,3	98,4	97,0	98,0	94,8	96,4	95,9	90,1	99,7	92,2	90,5	98,5	97,7	98,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,3	97,3	96,1	97,2	95,0	95,4	95,2	95,8	96,2	95,3	94,8	88,1	87,8	89,8	91,4	89,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	93,9	95,0	96,8	98,1	96,4	96,6	98,1	98,4	98,2	97,9	98,4	98,5	95,6	94,3

COLOR PARAMETERS

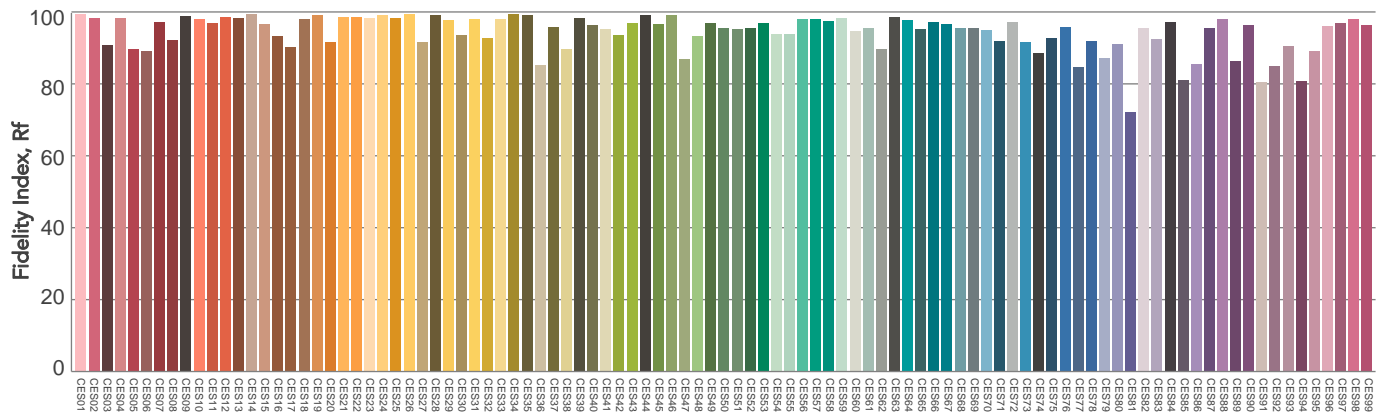
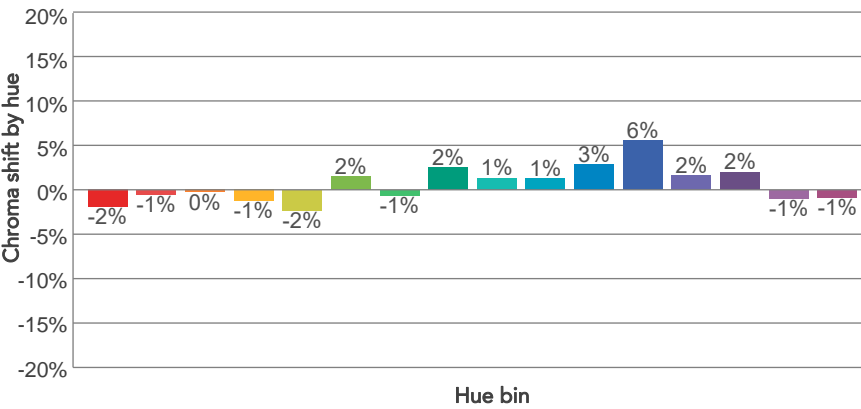
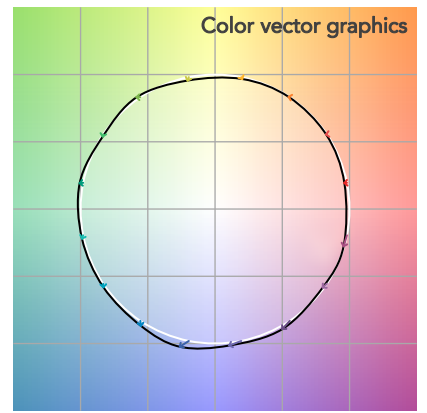
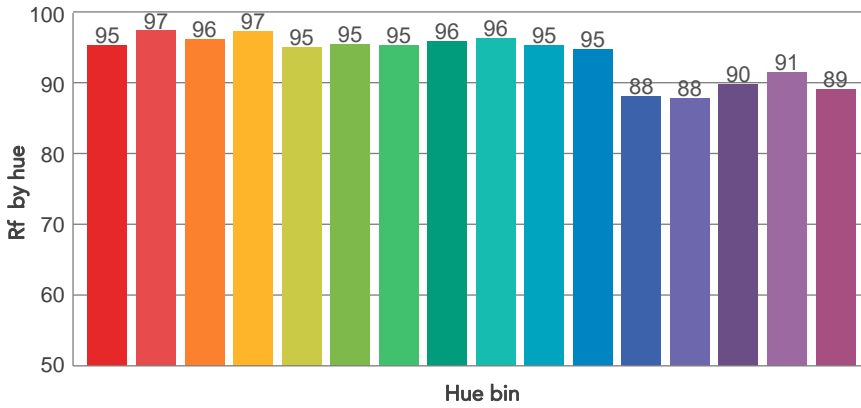
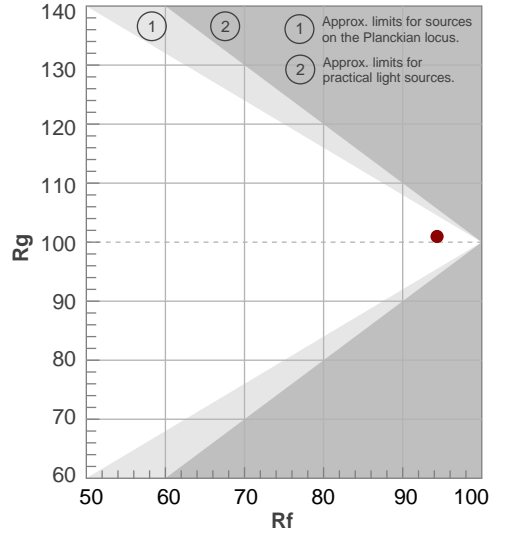
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3178 K	97,2	90,1	94,3	101,0	95,9	87	0,424	0,398	-0,0007

# TM30 DETAILS

**Rf 94,3**  
Fidelity index Rf

**Rg 101,0**  
Gammut index

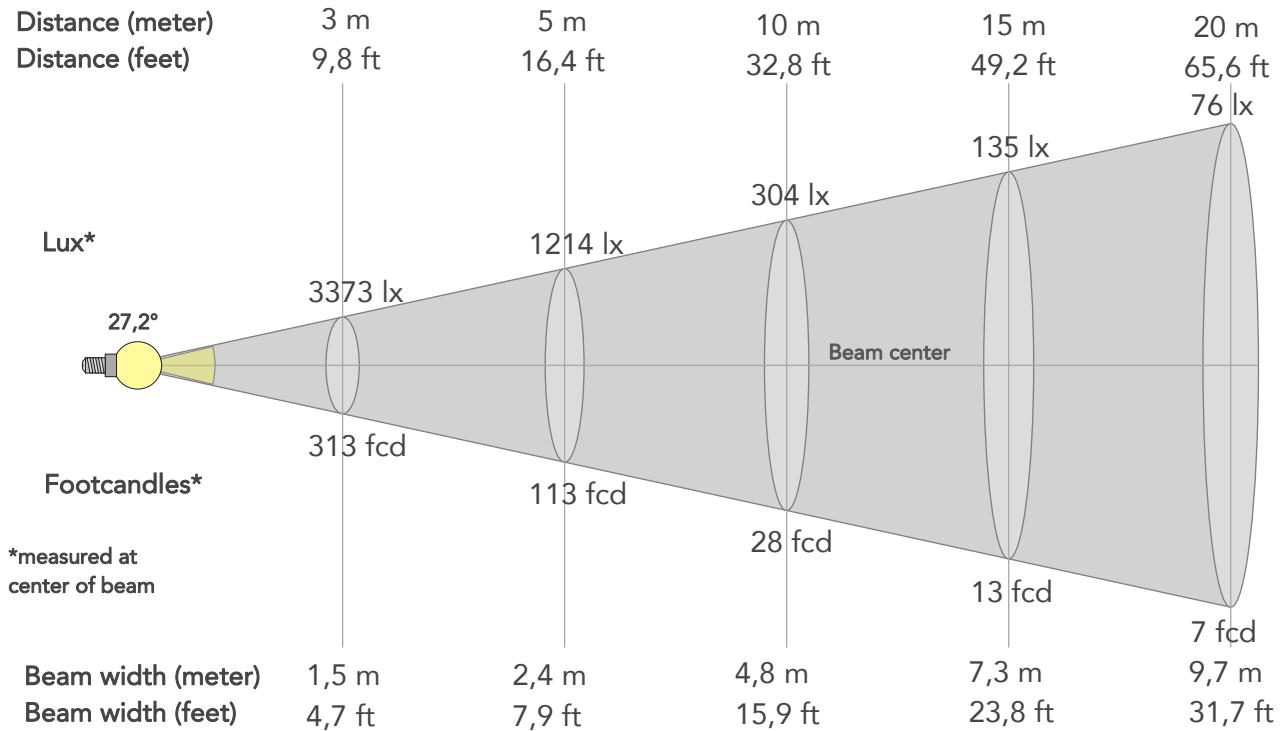
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	97	-1%	0%
3	96	0%	1%
4	97	-1%	-1%
5	95	-2%	1%
6	95	2%	2%
7	95	-1%	2%
8	96	2%	1%
9	96	1%	2%
10	95	1%	2%
11	95	3%	2%
12	88	6%	-6%
13	88	2%	-9%
14	90	2%	-8%
15	91	-1%	-4%
16	89	-1%	-9%



# BEAM DETAILS



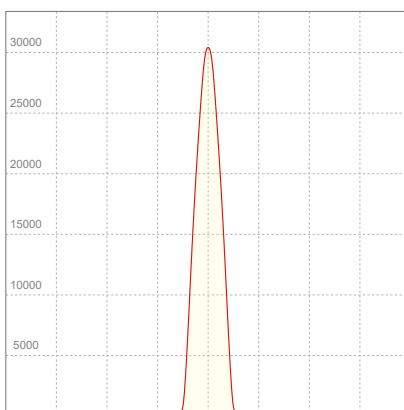
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,2°	40,6°	45,4°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	30353lx	7588lx	3373lx	1897lx	1214lx	540lx	304lx	135lx	76lx	49lx	34lx	19lx	12lx
Footcand.	2820fcd	705fcd	313fcd	176fcd	113fcd	50fcd	28fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,6m	4,8m	7,3m	9,7m	12,1m	14,5m	19,4m	24,2m
Beam wid.	1,6ft	3,2ft	4,7ft	6,3ft	7,9ft	11,9ft	15,9ft	23,8ft	31,7ft	39,7ft	47,6ft	63,5ft	79,4ft

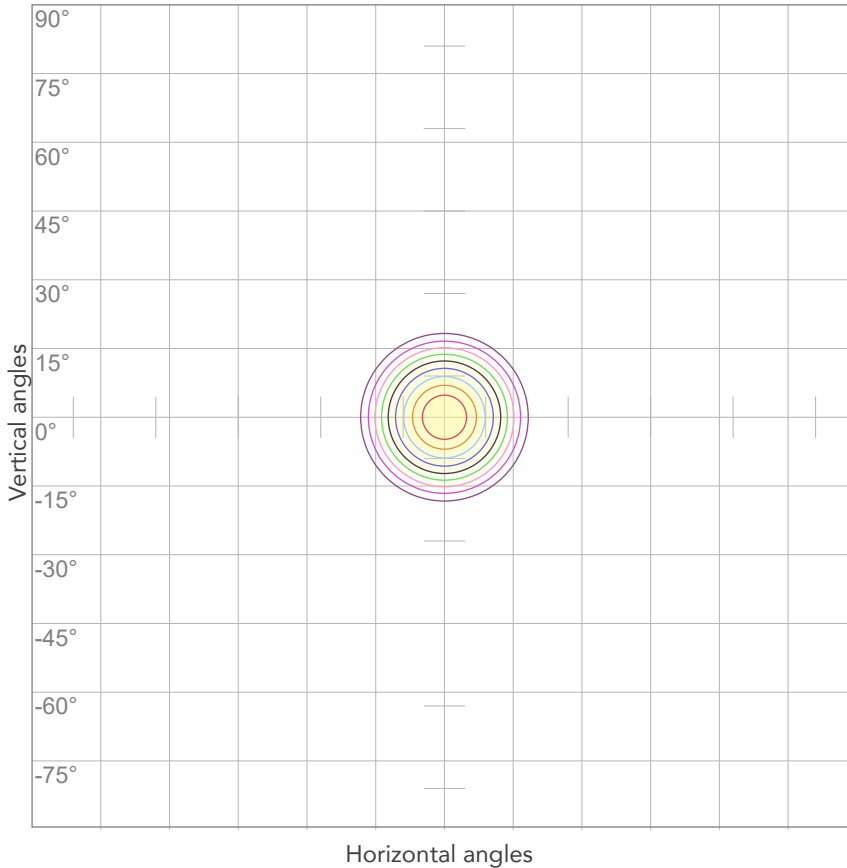
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,08A	240,4W	25lm/W

## ISO CANDELA DIAGRAM



10%	3035 cd
20%	6071 cd
30%	9106 cd
40%	12141 cd
50%	15176 cd
60%	18212 cd
70%	21247 cd
80%	24282 cd

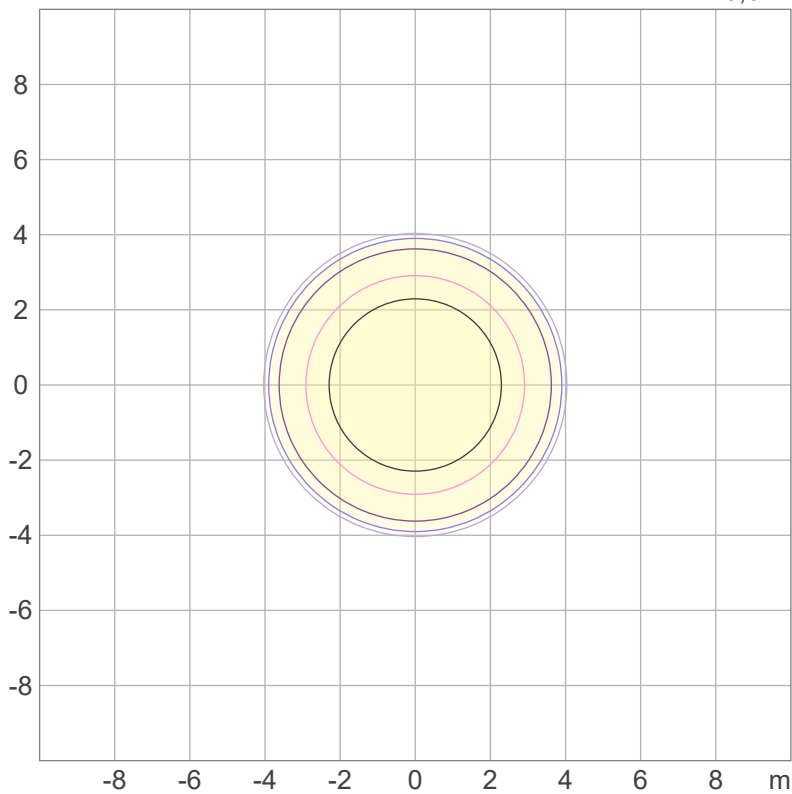
Conditions:

Number of c-planes: 2

Candela at center: 30353 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	9,11 lx
5%	15,2 lx
10%	30,4 lx
30%	91,1 lx
50%	152 lx

Conditions:

Number of c-planes: 2

Lux at center: 304 lx

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



Total lumen output:

3056 lm

Peak candela output:

115264 cd

Light quality:

CRI: 97,3

Color temperature:

3163 K

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Min Zoom

Target:

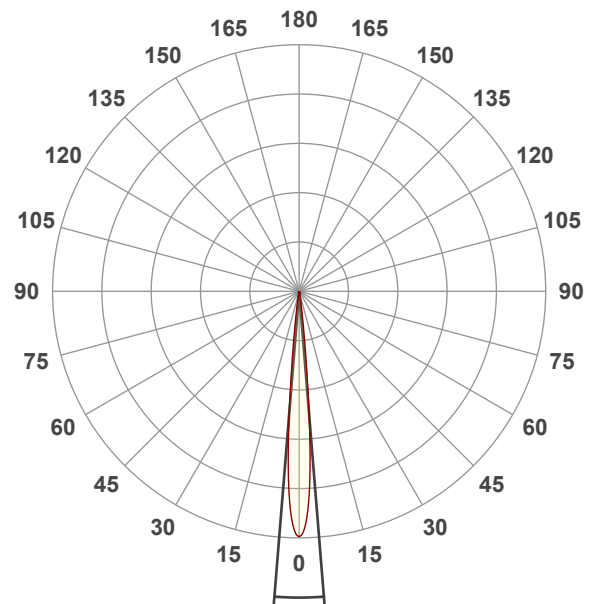
3200K

Operator:

Salvatore Giglio

Date and time:

18/09/2023 13:22:45

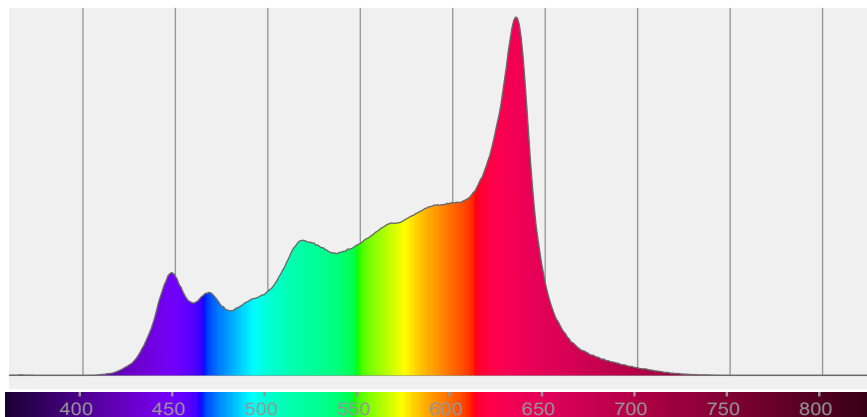


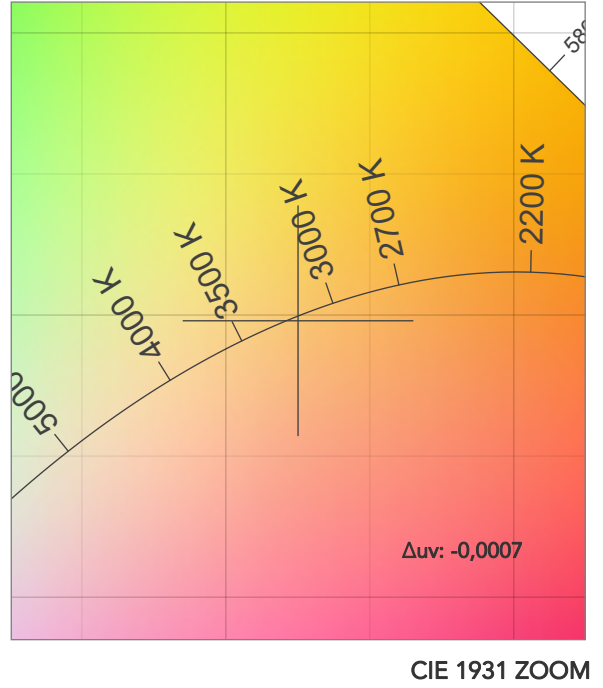
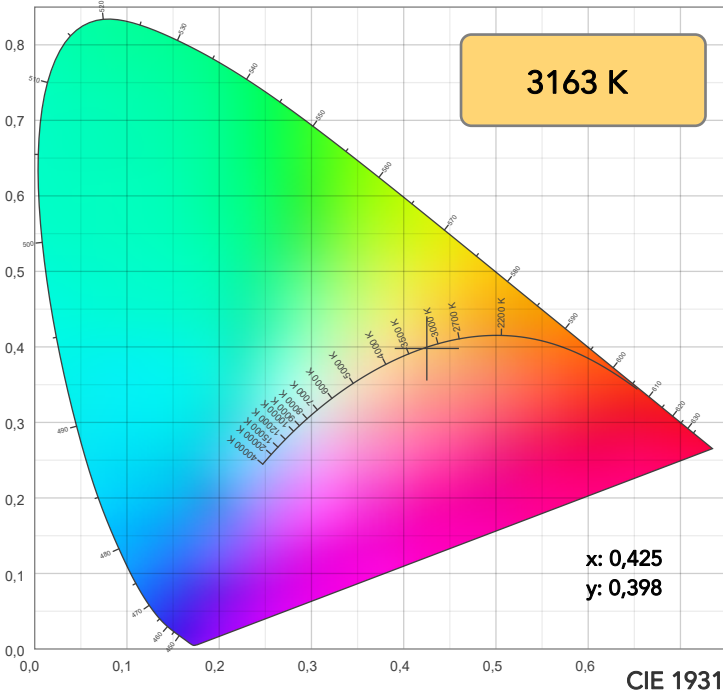
Beam angle 50%: 9,3°

Field angle 10%: 15°

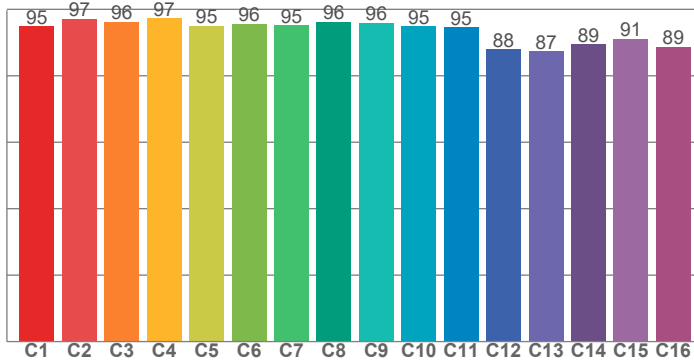
Cut off angle 2.5%: 19,6°

Spectra

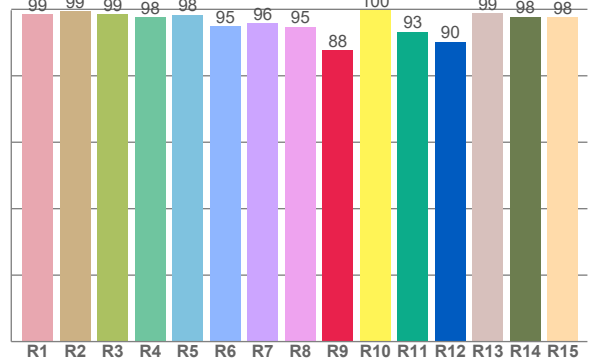




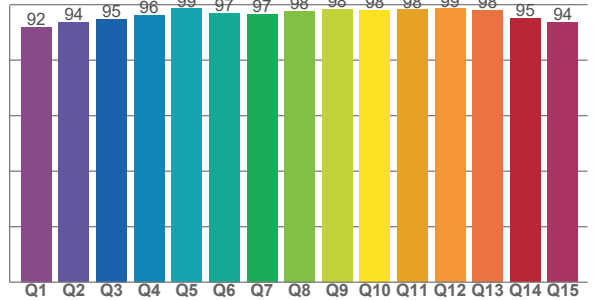
TM30: 94,2



CRI: 97,3 (R1-R8)



CQS: 95,6



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
98,5	99,4	98,6	97,7	98,4	94,8	95,8	94,8	87,7	99,7	93,2	90,3	98,8	97,8	97,6

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
94,9	97,2	96,1	97,2	95,0	95,6	95,2	96,2	96,0	94,8	94,5	87,9	87,4	89,4	91,0	88,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,0	93,6	94,9	96,3	98,5	97,0	96,6	97,8	98,4	98,0	98,3	98,6	98,1	95,1	93,6

COLOR PARAMETERS

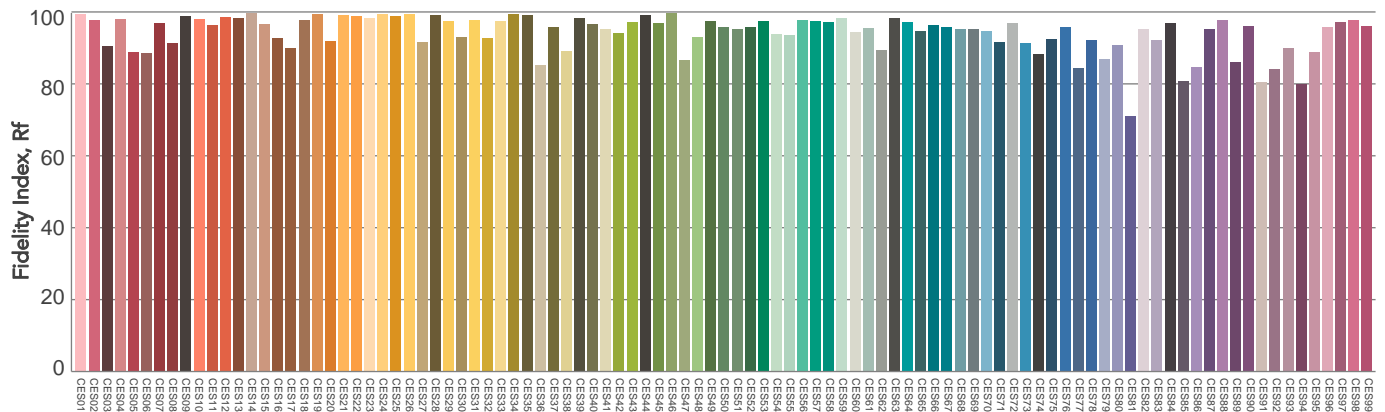
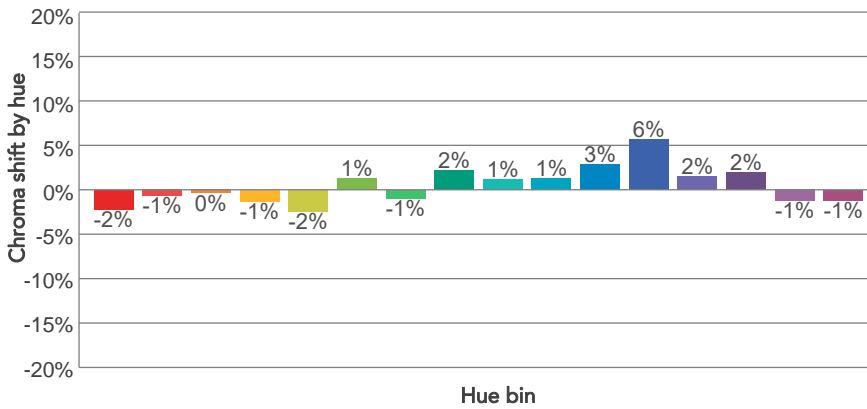
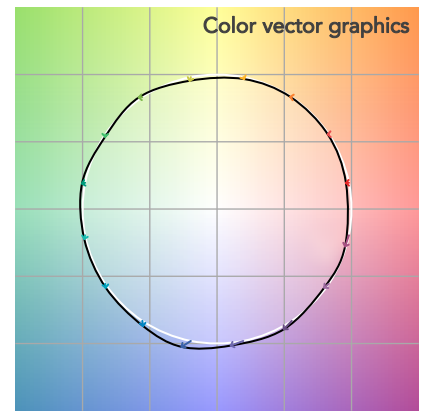
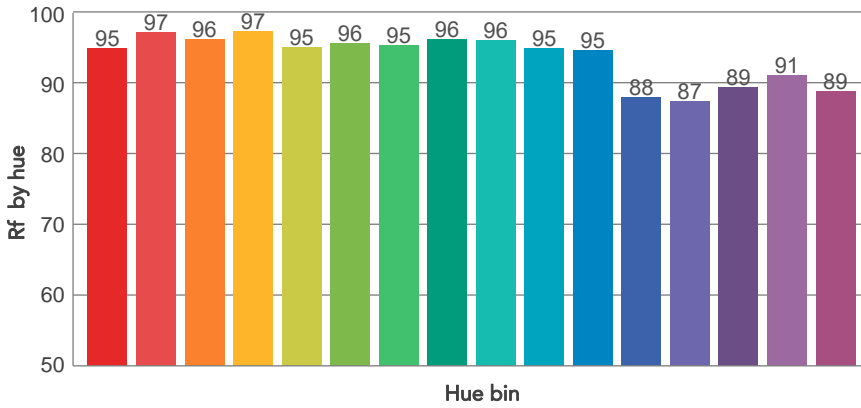
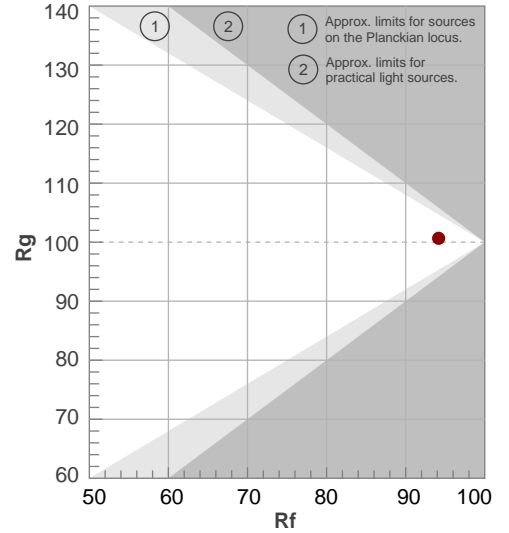
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3163 K	97,3	87,7	94,2	100,7	95,6	87	0,425	0,398	-0,0007

# TM30 DETAILS

**Rf 94,2**  
Fidelity index Rf

**Rg 100,7**  
Gammut index

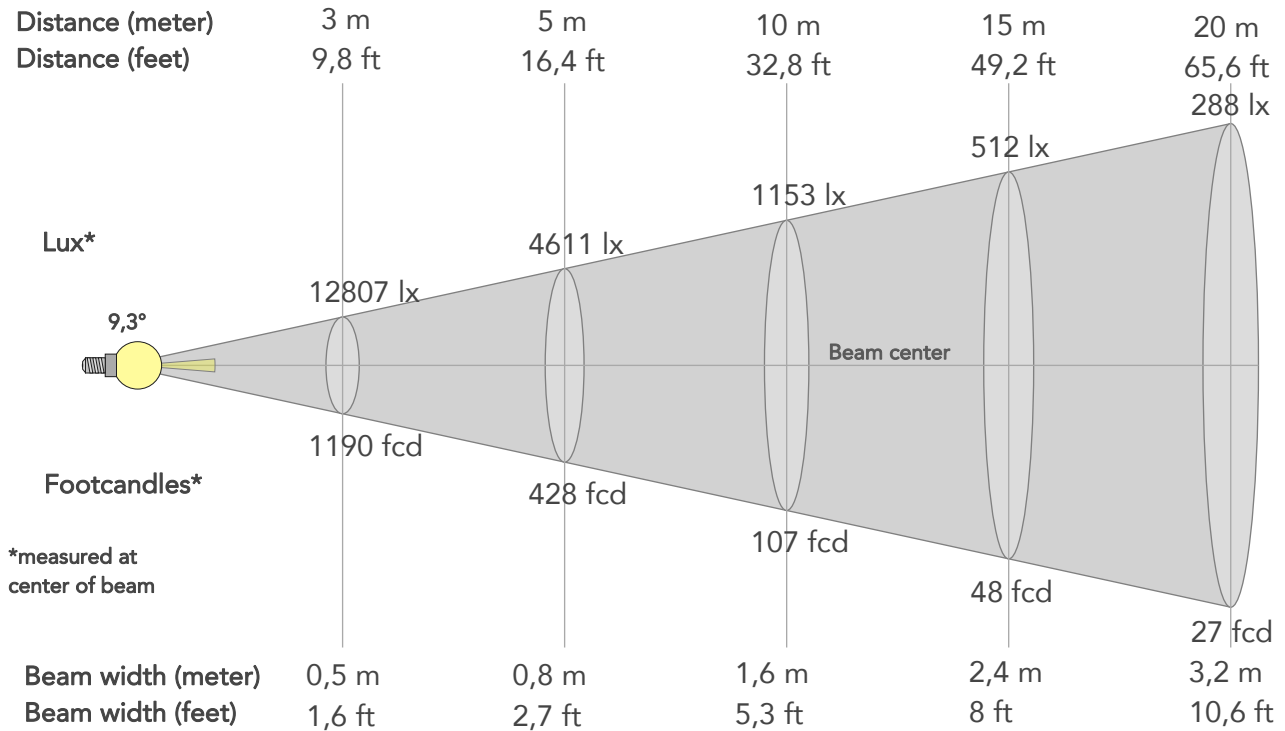
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	97	-1%	0%
3	96	0%	1%
4	97	-1%	-1%
5	95	-2%	1%
6	96	1%	2%
7	95	-1%	2%
8	96	2%	1%
9	96	1%	3%
10	95	1%	3%
11	95	3%	3%
12	88	6%	-6%
13	87	2%	-10%
14	89	2%	-8%
15	91	-1%	-4%
16	89	-1%	-9%



# BEAM DETAILS



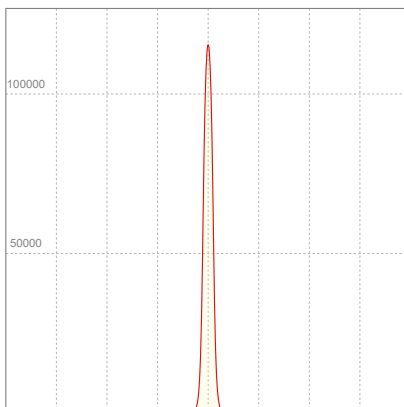
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,3°	15°	19,6°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	115264lx	28816lx	12807lx	7204lx	4611lx	2049lx	1153lx	512lx	288lx	184lx	128lx	72lx	46lx
Footcand.	10708fcd	2677fcd	1190fcd	669fcd	428fcd	190fcd	107fcd	48fcd	27fcd	17fcd	12fcd	7fcd	4fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,2m	1,6m	2,4m	3,2m	4,1m	4,9m	6,5m	8,1m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,3ft	8ft	10,6ft	13,3ft	15,9ft	21,3ft	26,6ft

## LINEAR DISTRIBUTION DIAGRAM

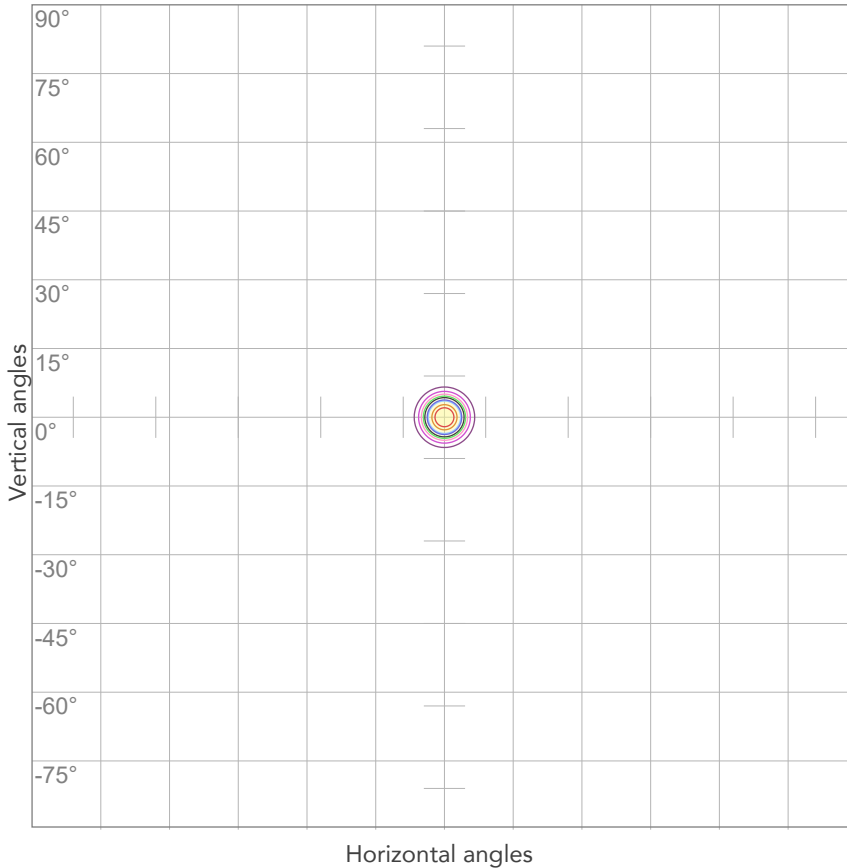


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,08A	239,2W	13lm/W



## ISO CANDELA DIAGRAM



10%	11526 cd
20%	23053 cd
30%	34579 cd
40%	46105 cd
50%	57632 cd
60%	69158 cd
70%	80684 cd
80%	92211 cd

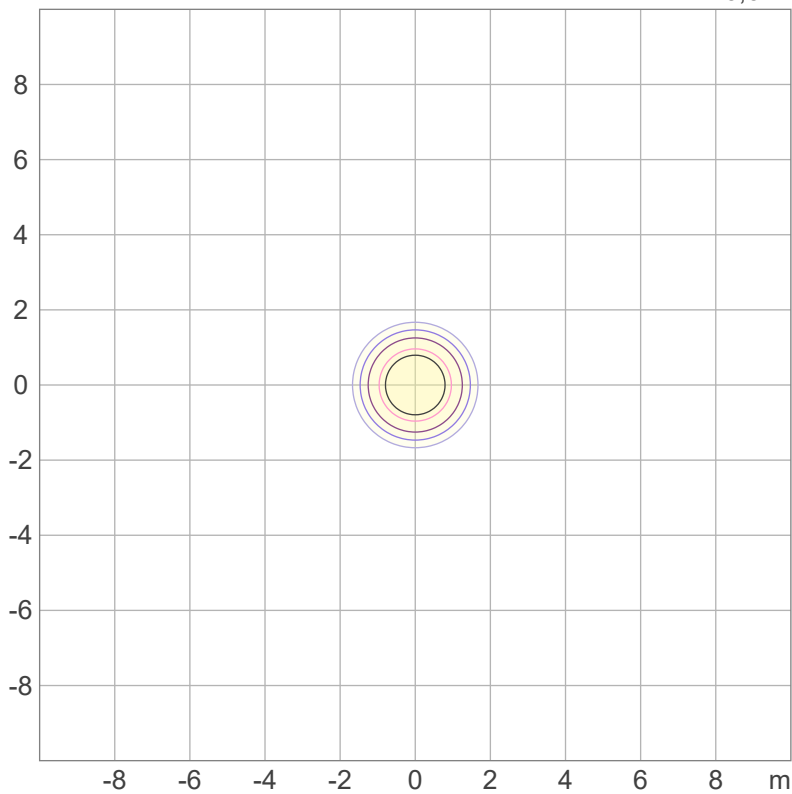
Conditions:

Number of c-planes: 2

Candela at center: 115264 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	34,6 lx
5%	57,6 lx
10%	115 lx
30%	346 lx
50%	576 lx

Conditions:

Number of c-planes: 2

Lux at center: 1153 lx

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



Total lumen output:

7537 lm

Peak candela output:

8713 cd

Light quality:

CRI: 97,4

Color temperature:

3997 K

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Max Zoom

Target:

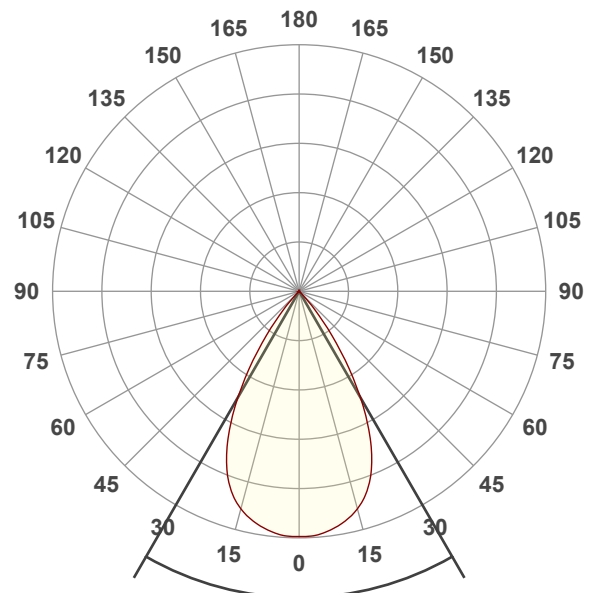
4000K

Operator:

Salvatore Giglio

Date and time:

18/09/2023 13:29:58

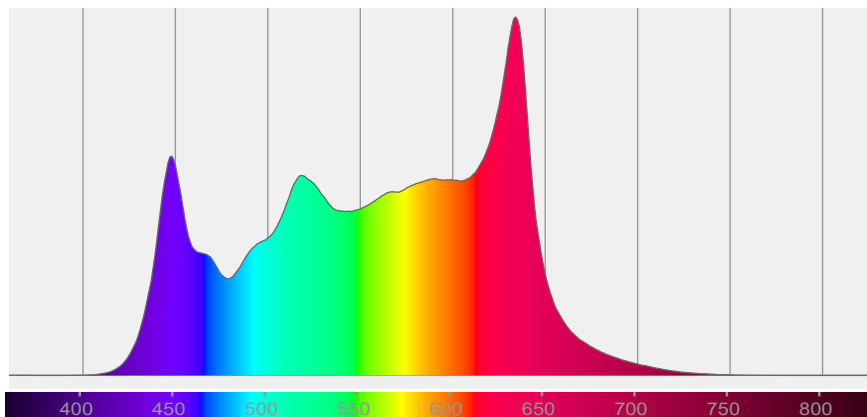


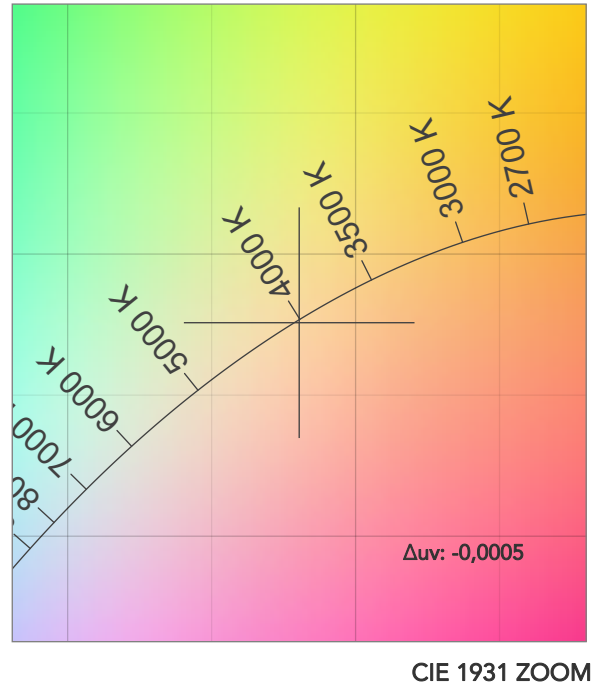
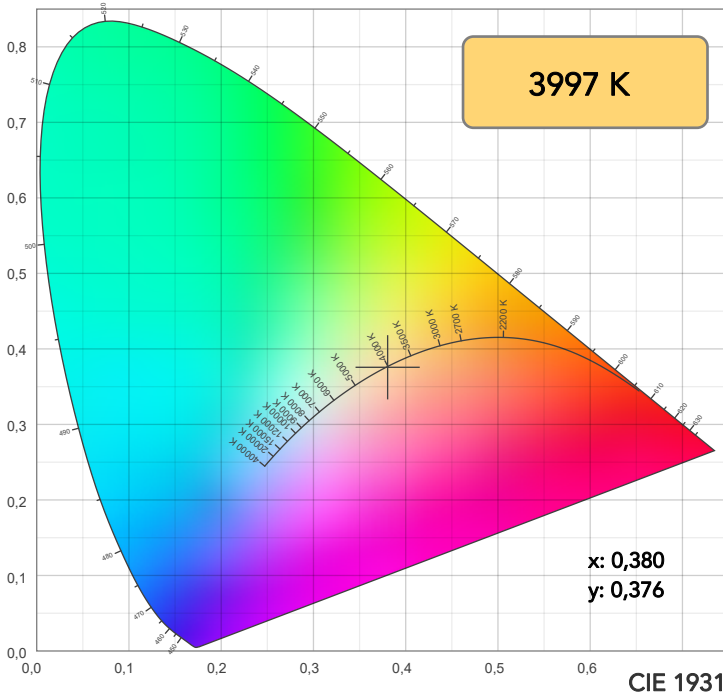
Beam angle 50%: 60°

Field angle 10%: 80,8°

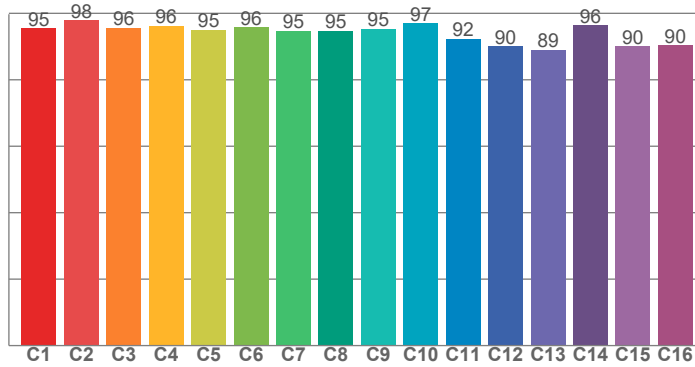
Cut off angle 2.5%: 88,5°

Spectra

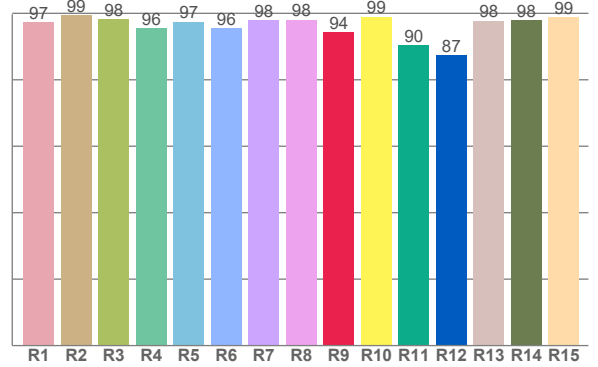




TM30: 94,3



CRI: 97,4 (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
97,2	99,4	98,3	95,6	97,5	95,5	97,9	98,1	94,3	99,0	90,3	87,4	97,8	98,0	98,8

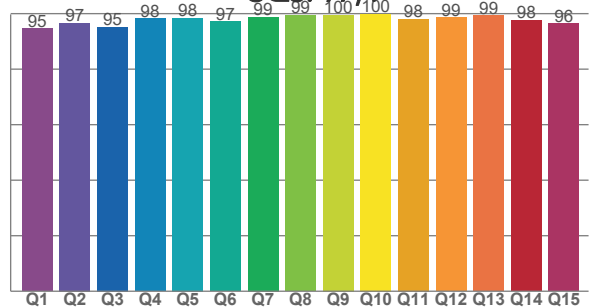
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,5	97,8	95,6	96,2	95,0	95,7	94,8	94,7	95,3	96,9	92,3	90,0	88,9	96,4	90,0	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	96,7	95,2	98,2	98,5	97,1	98,7	99,4	99,6	99,8	98,0	98,5	99,3	97,6	96,4

CQS: 97,4



COLOR PARAMETERS

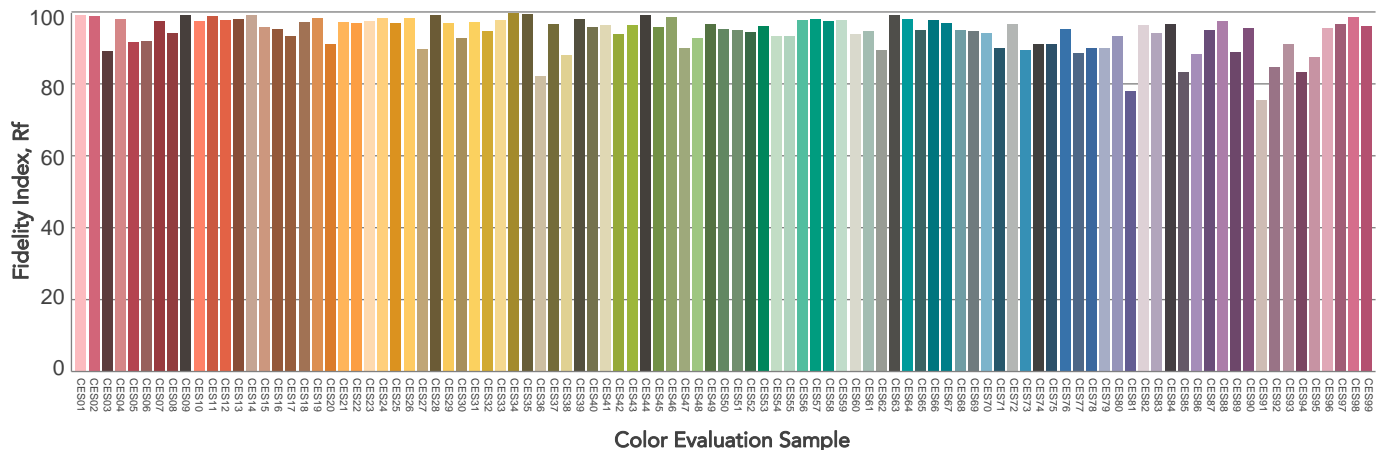
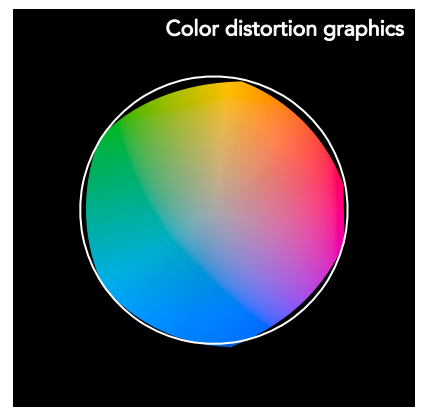
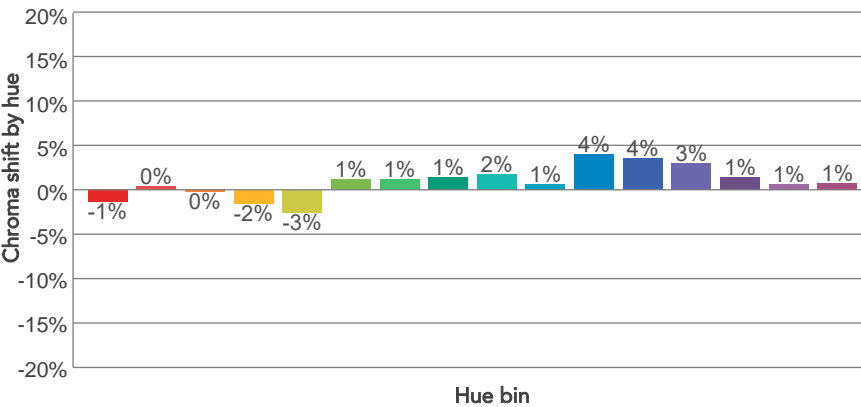
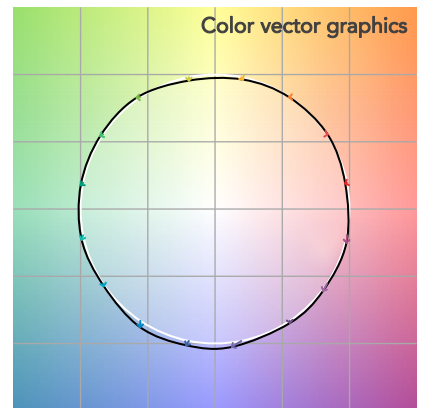
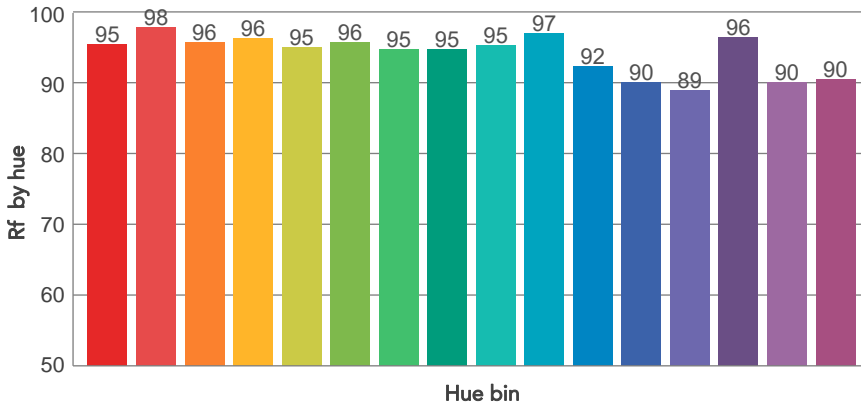
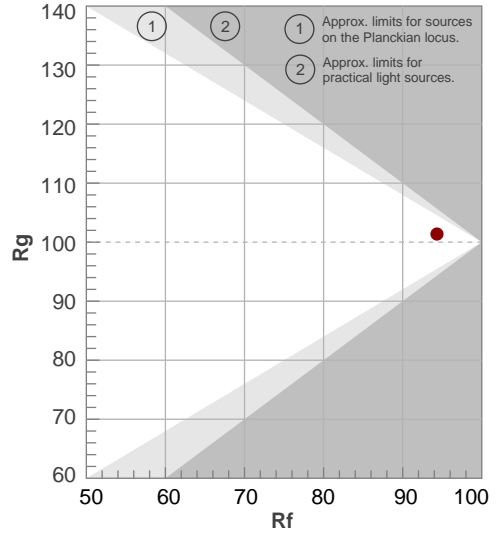
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3997 K	97,4	94,3	94,3	101,4	97,4	89	0,380	0,376	-0,0005

# TM30 DETAILS

**Rf 94,3**  
Fidelity index Rf

**Rg 101,4**  
Gammut index

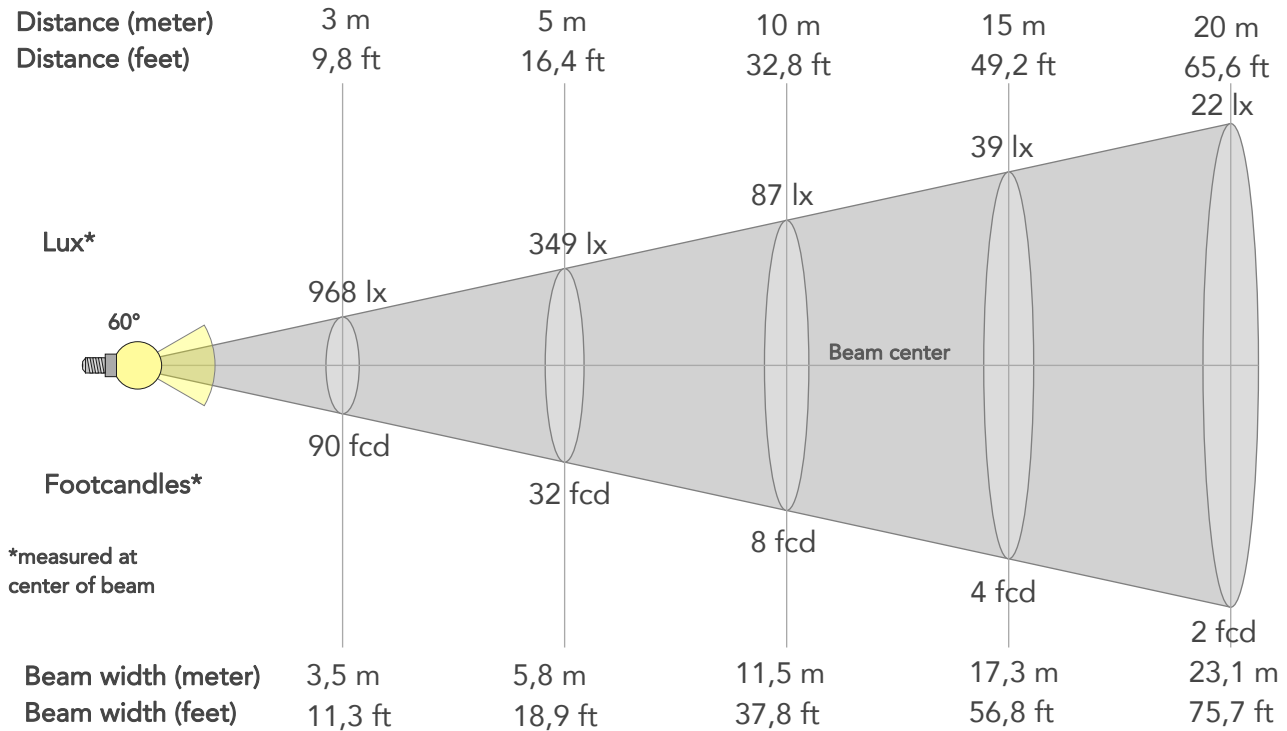
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	0%
2	98	0%	0%
3	96	0%	0%
4	96	-2%	-2%
5	95	-3%	0%
6	96	1%	2%
7	95	1%	2%
8	95	1%	2%
9	95	2%	3%
10	97	1%	2%
11	92	4%	2%
12	90	4%	-1%
13	89	3%	-8%
14	96	1%	-1%
15	90	1%	-6%
16	90	1%	-5%



# BEAM DETAILS



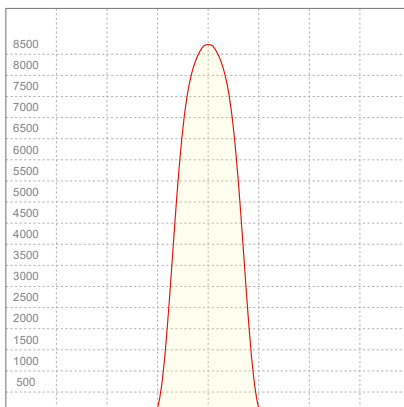
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60°	80,8°	88,5°	100,0%	99,7%



## 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	8713lx	2178lx	968lx	545lx	349lx	155lx	87lx	39lx	22lx	14lx	10lx	5lx	3lx
Footcand.	810fcd	202fcd	90fcd	51fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,5m	17,3m	23,1m	28,8m	34,6m	46,2m	57,7m
Beam wid.	3,8ft	7,6ft	11,3ft	15,1ft	18,9ft	28,4ft	37,8ft	56,8ft	75,7ft	94,6ft	113,5ft	151,4ft	189,2ft

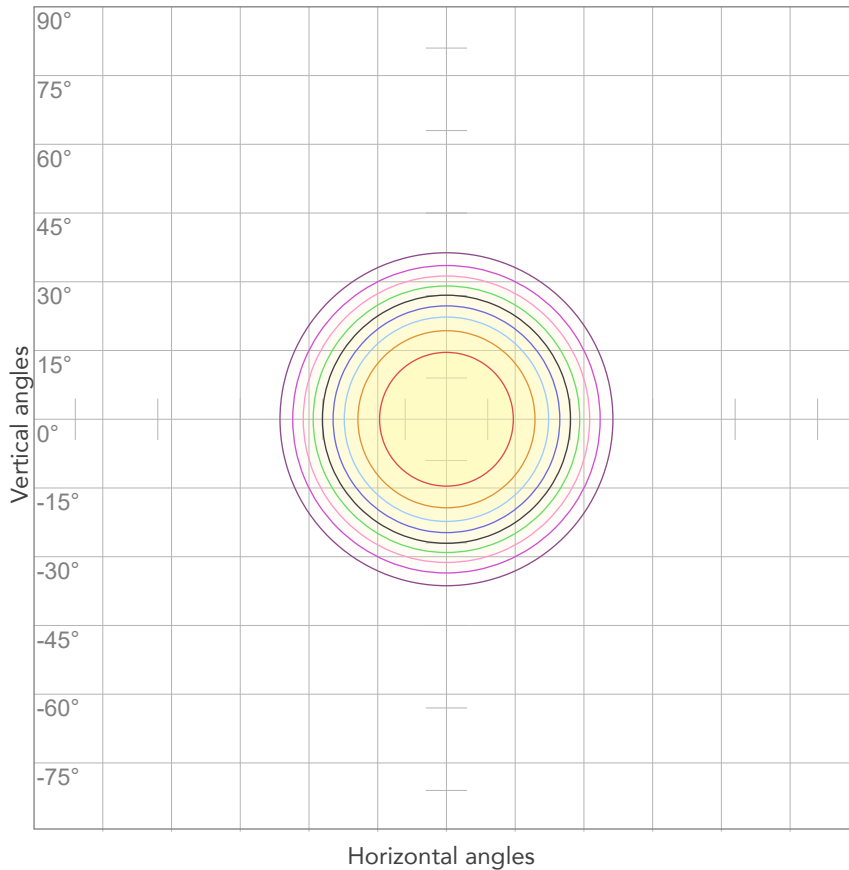
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,05A	232,4W	32lm/W

## ISO CANDELA DIAGRAM



10%	871 cd
20%	1743 cd
30%	2614 cd
40%	3485 cd
50%	4357 cd
60%	5228 cd
70%	6099 cd
80%	6971 cd

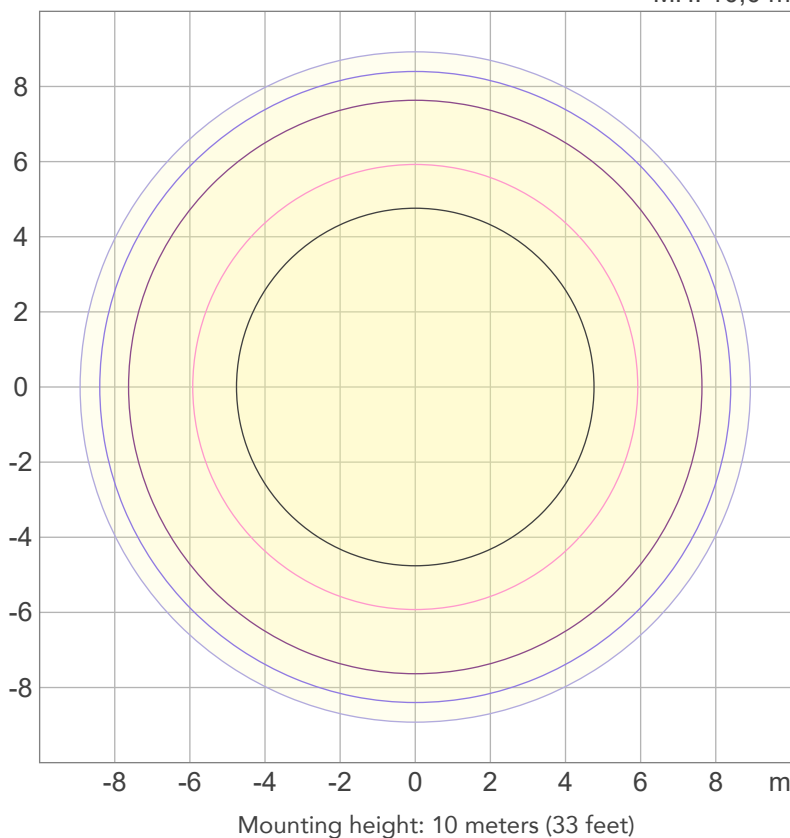
Conditions:

Number of c-planes: 2

Candela at center: 8713 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	2,61 lx
5%	4,36 lx
10%	8,71 lx
30%	26,1 lx
50%	43,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 87,1 lx

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



Total lumen output:

5764 lm

Peak candela output:

29424 cd

Light quality:

CRI: 97,5

Color temperature:

4018 K

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Med Zoom

Target:

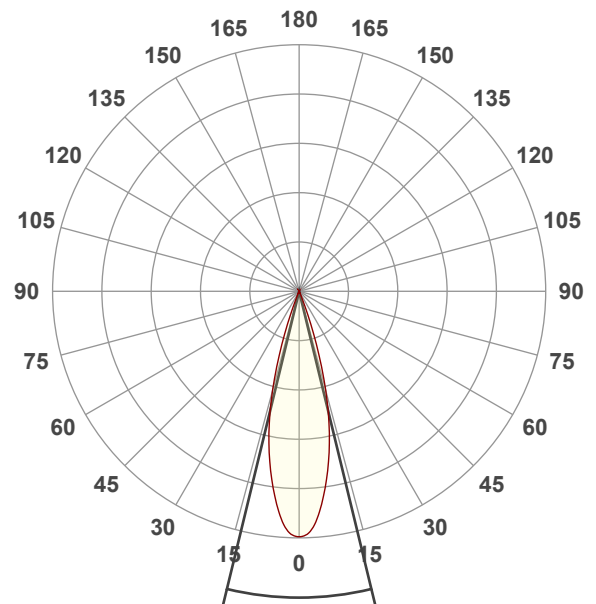
4000K

Operator:

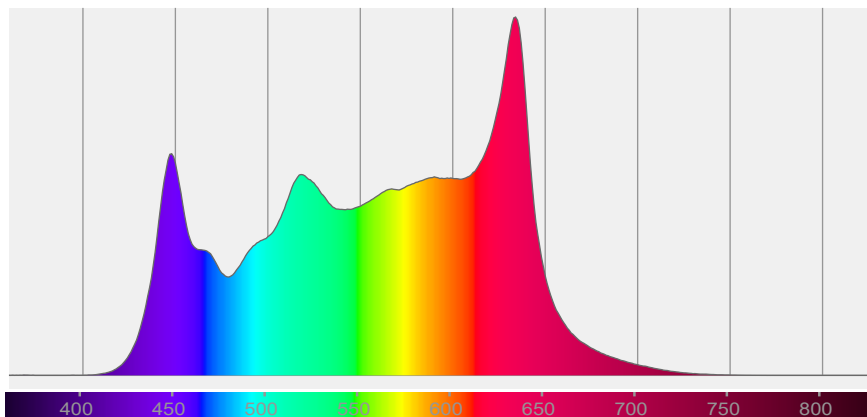
Salvatore Giglio

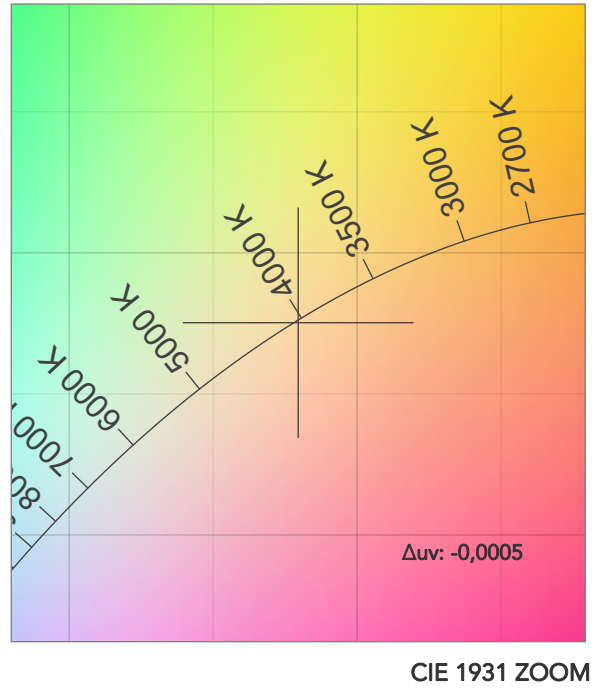
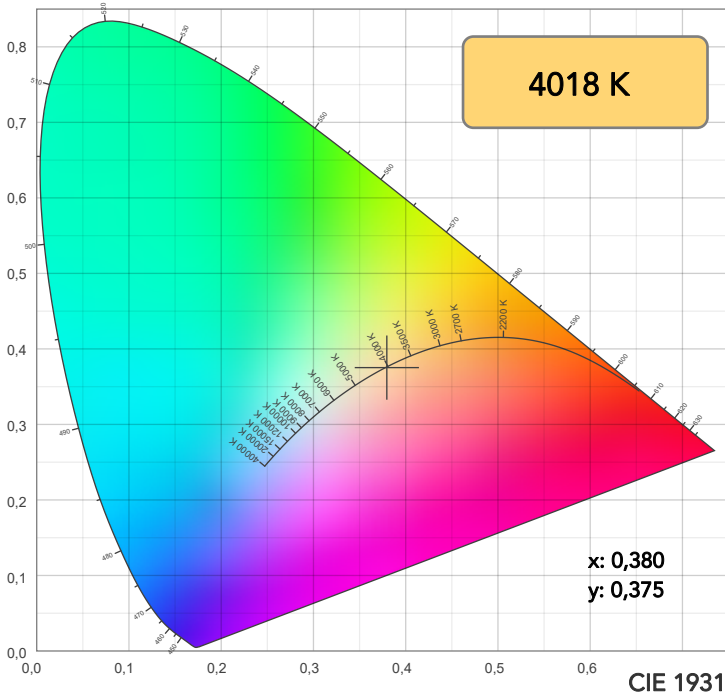
Date and time:

18/09/2023 12:54:07

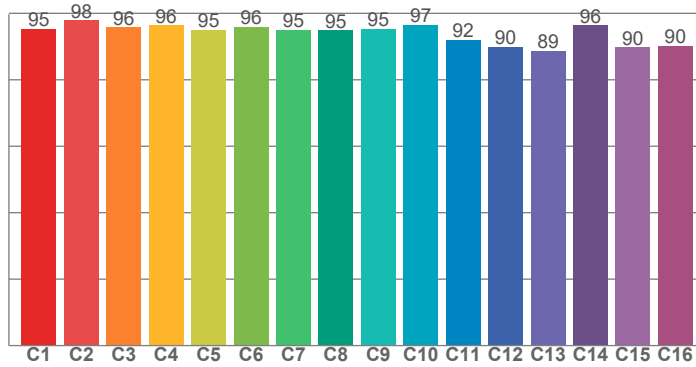


Spectra

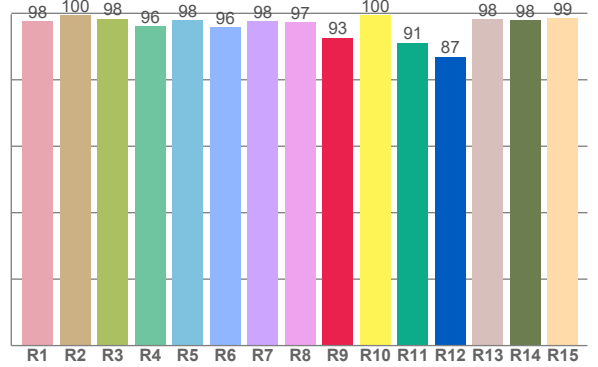




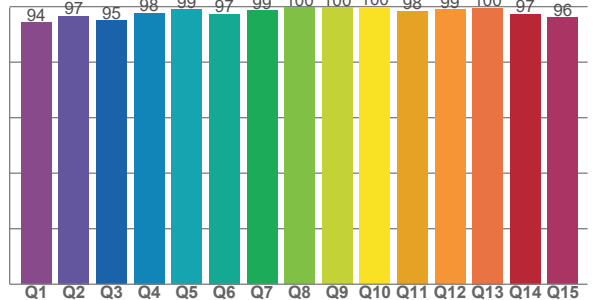
TM30: 94,3



CRI: 97,5 (R1-R8)



CQS: 97,3



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
97,6	99,5	98,4	96,2	98,0	95,7	97,6	97,3	92,7	99,5	91,1	87,0	98,2	98,0	98,5

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
95,3	97,9	95,7	96,4	95,0	95,9	95,0	94,9	95,3	96,6	92,1	89,9	88,7	96,3	89,8	90,3

CQS Q values

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

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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4018 K	97,5	92,7	94,3	101,2	97,3	89	0,380	0,375	-0,0005

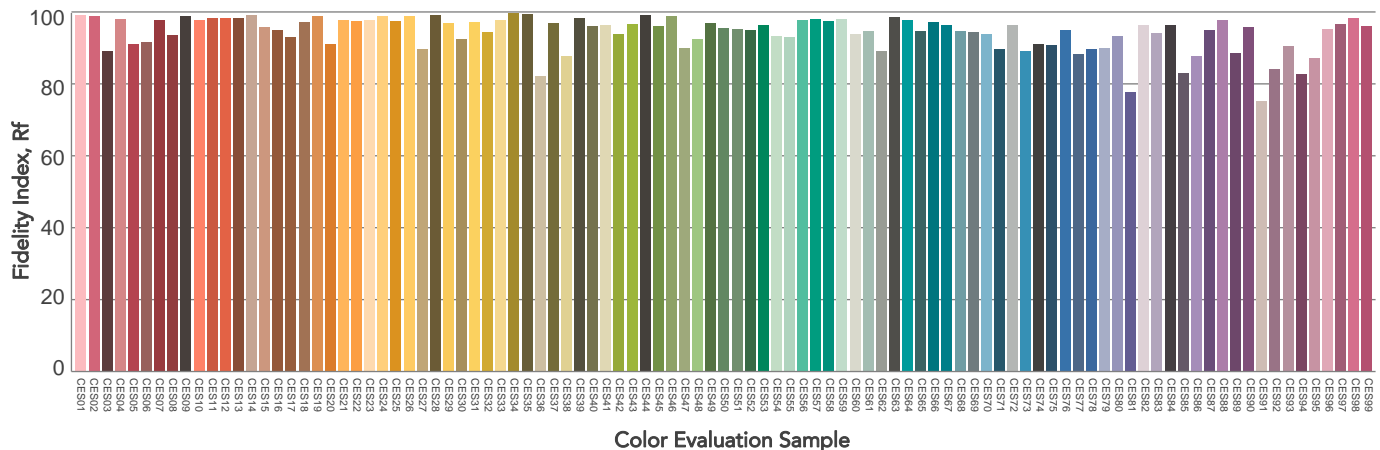
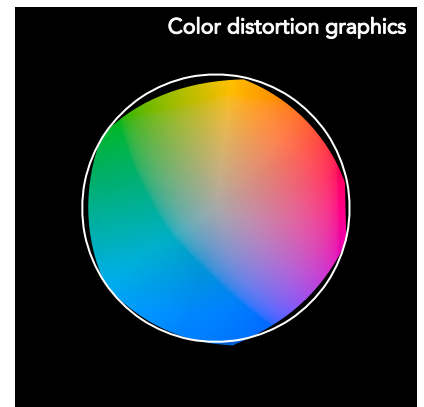
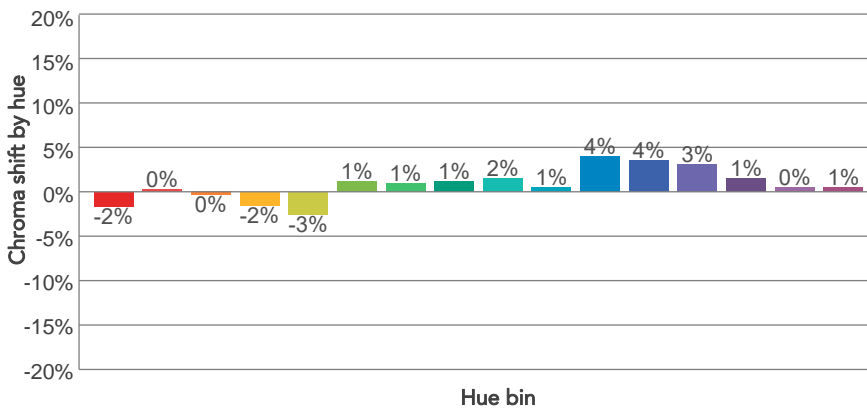
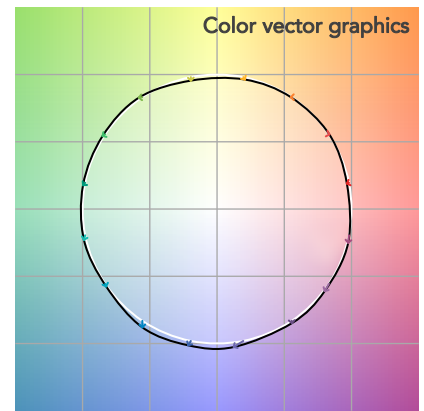
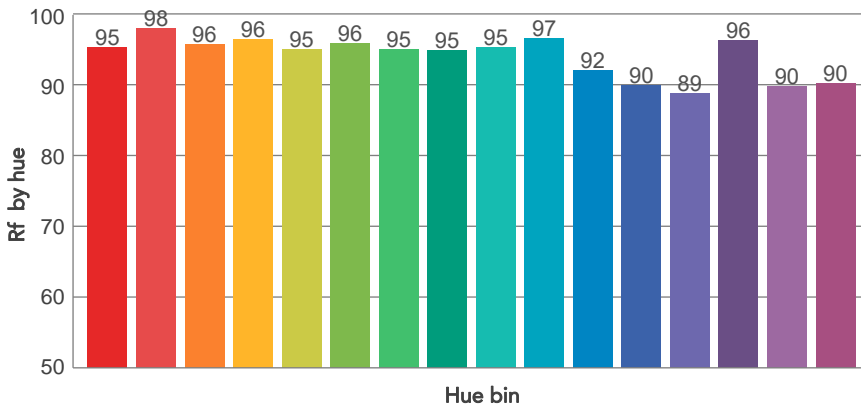
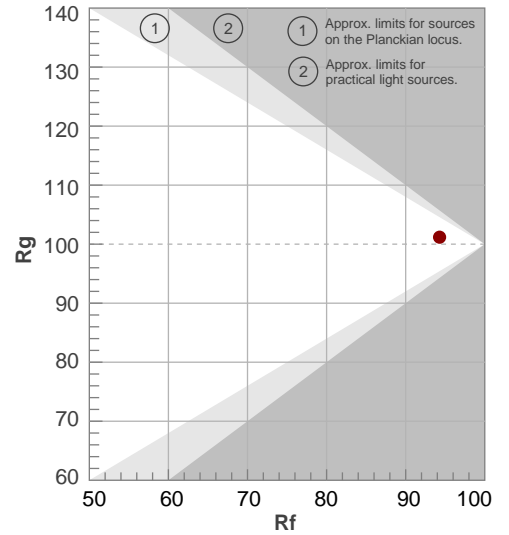


# TM30 DETAILS

**Rf 94,3**  
Fidelity index Rf

**Rg 101,2**  
Gammut index

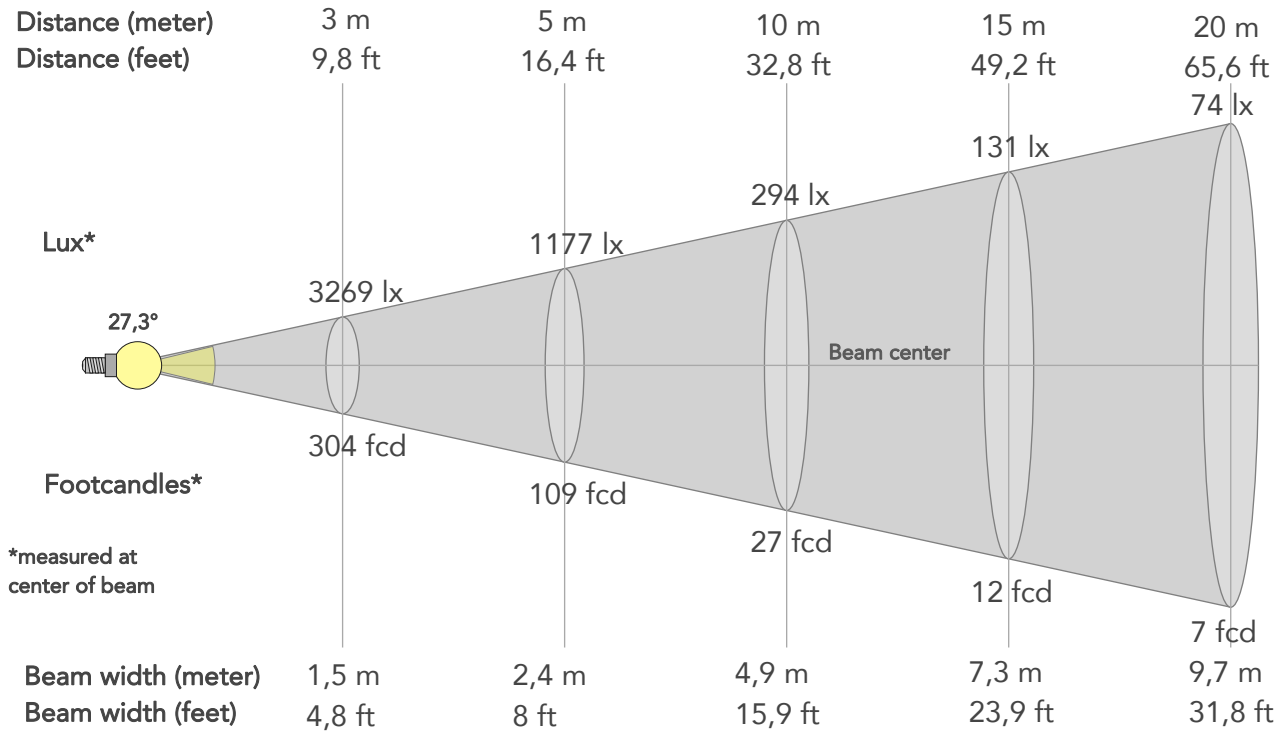
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	98	0%	0%
3	96	0%	1%
4	96	-2%	-2%
5	95	-3%	0%
6	96	1%	2%
7	95	1%	2%
8	95	1%	2%
9	95	2%	3%
10	97	1%	2%
11	92	4%	3%
12	90	4%	-1%
13	89	3%	-8%
14	96	1%	-1%
15	90	0%	-6%
16	90	1%	-6%



# BEAM DETAILS



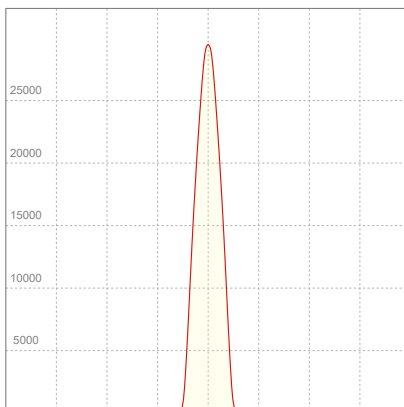
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,3°	40,7°	45,5°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	29424lx	7356lx	3269lx	1839lx	1177lx	523lx	294lx	131lx	74lx	47lx	33lx	18lx	12lx
Footcand.	2734fcd	683fcd	304fcd	171fcd	109fcd	49fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,6m	4,9m	7,3m	9,7m	12,1m	14,6m	19,4m	24,3m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	11,9ft	15,9ft	23,9ft	31,8ft	39,8ft	47,7ft	63,7ft	79,6ft

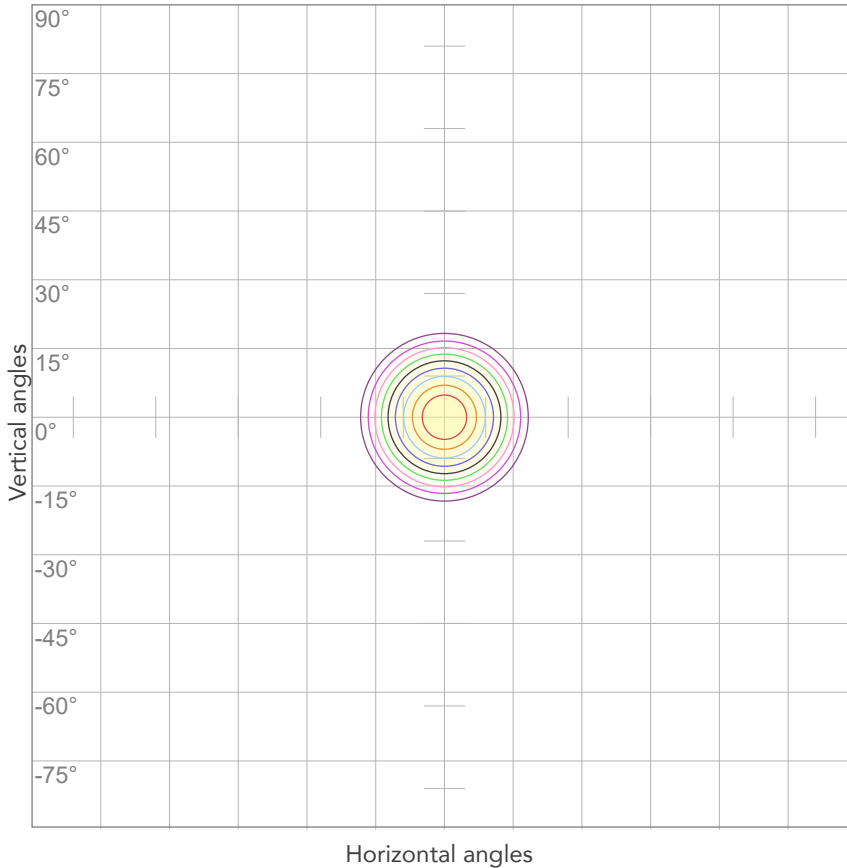
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,04A	232W	25lm/W

## ISO CANDELA DIAGRAM



10%	2942 cd
20%	5885 cd
30%	8827 cd
40%	11769 cd
50%	14712 cd
60%	17654 cd
70%	20597 cd
80%	23539 cd

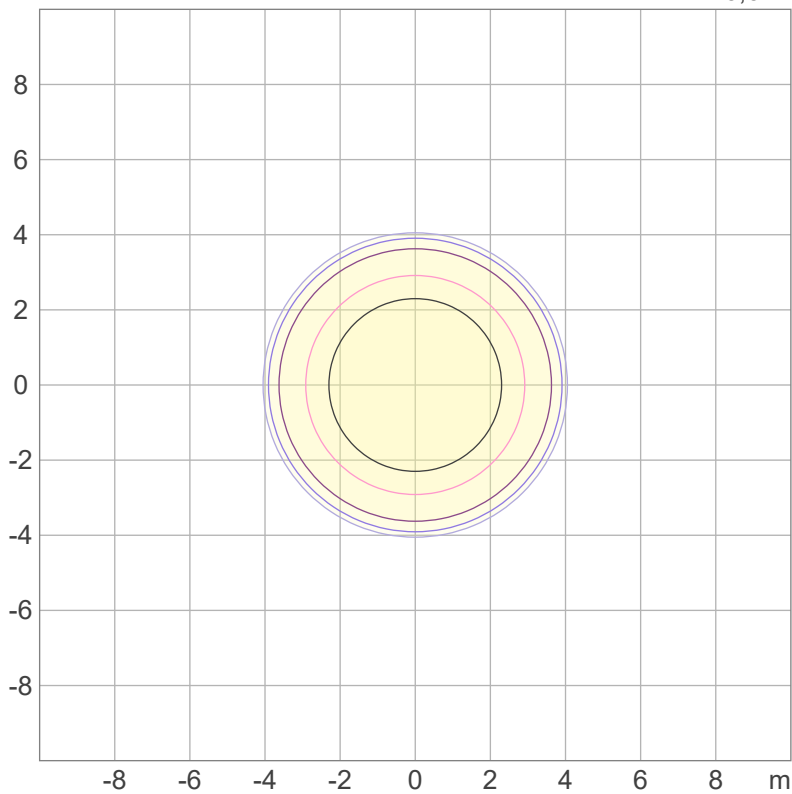
Conditions:

Number of c-planes: 2

Candela at center: 29424 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	8,83 lx
5%	14,7 lx
10%	29,4 lx
30%	88,3 lx
50%	147 lx

Conditions:

Number of c-planes: 2

Lux at center: 294 lx

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



Total lumen output:

2987 lm

Peak candela output:

111850 cd

Light quality:

CRI: 97,5

Color temperature:

3993 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

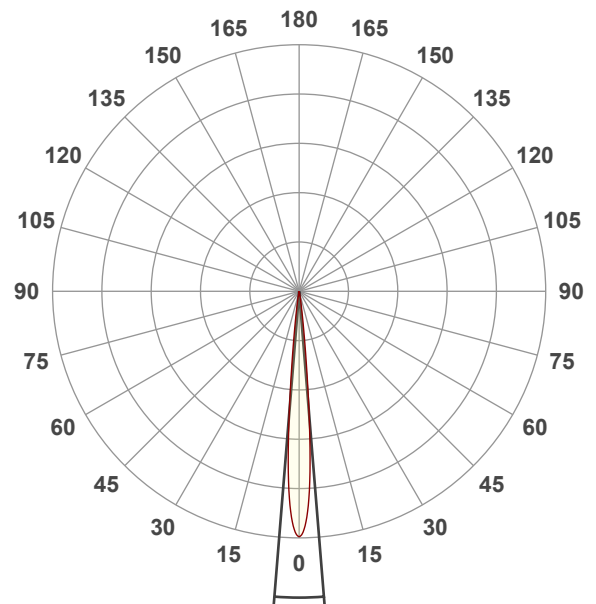
4000K

Operator:

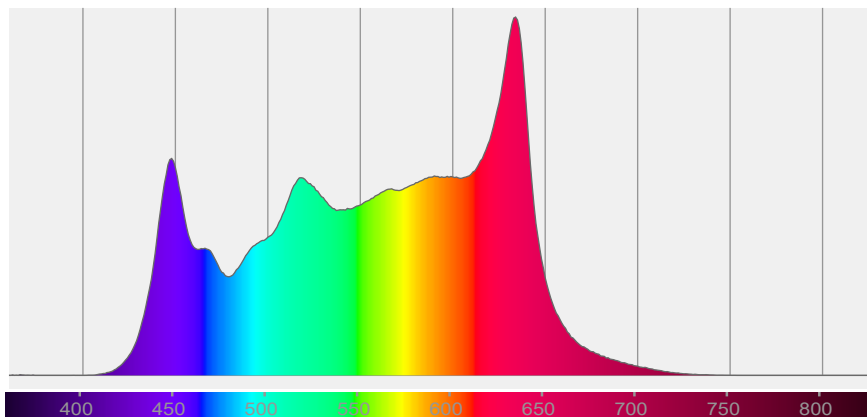
Salvatore Giglio

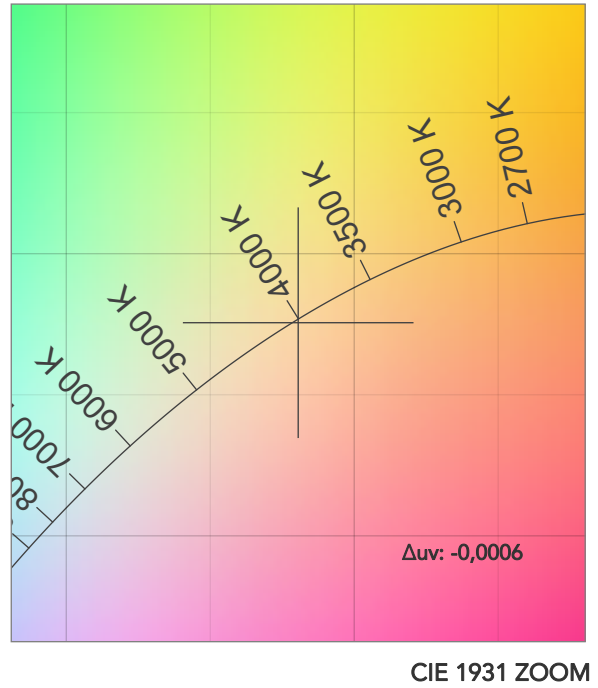
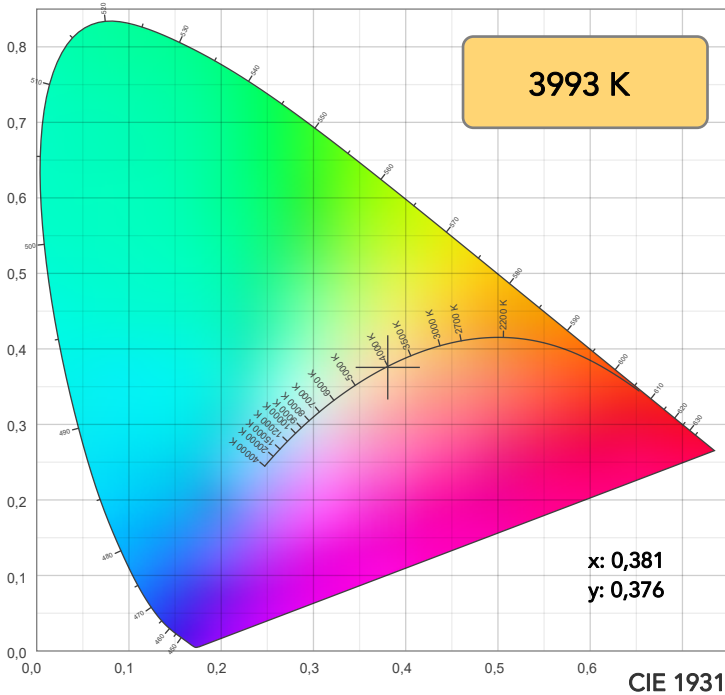
Date and time:

18/09/2023 13:25:39

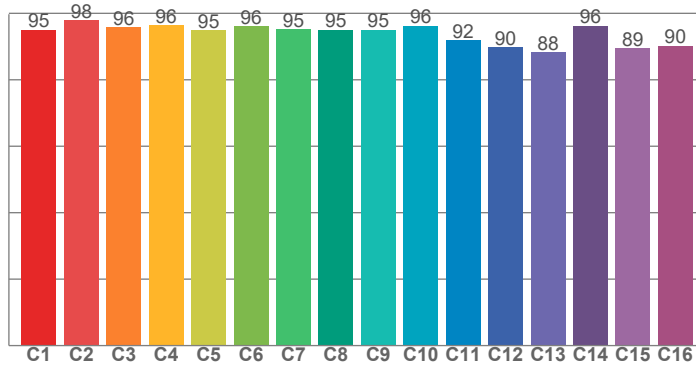


Spectra

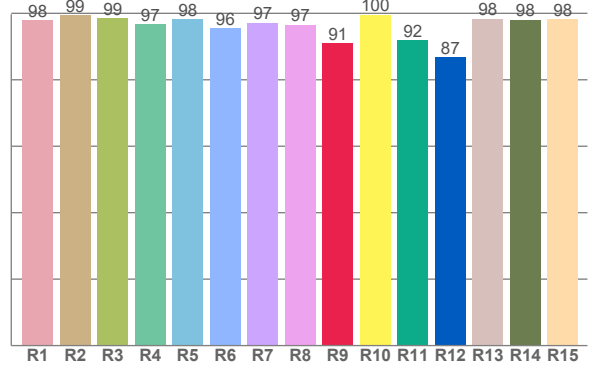




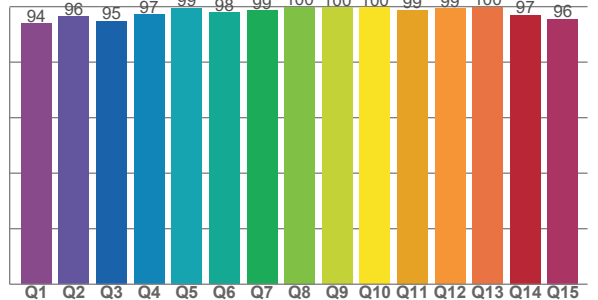
TM30: 94,2



CRI: 97,5 (R1-R8)



CQS: 97,2



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
97,8	99,4	98,5	96,7	98,2	95,6	97,2	96,6	91,1	99,6	91,8	86,9	98,3	98,1	98,3

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,1	97,9	95,7	96,4	94,9	96,0	95,1	95,0	95,0	96,2	91,9	89,8	88,3	96,3	89,4	90,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,9	96,5	94,9	97,2	99,5	97,8	98,6	99,9	99,7	99,7	98,8	99,2	99,8	97,1	95,6

COLOR PARAMETERS

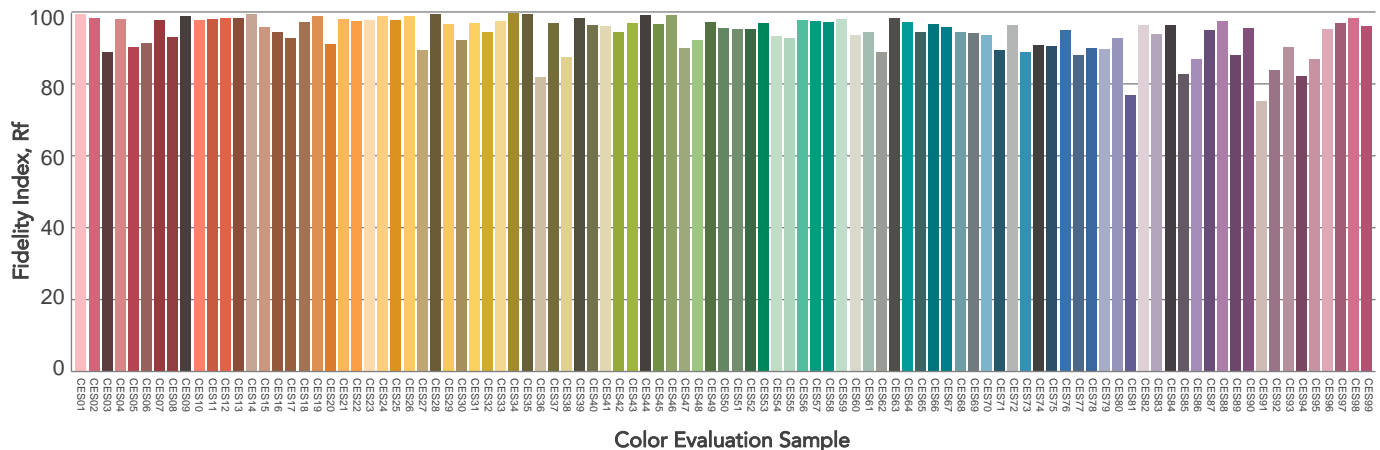
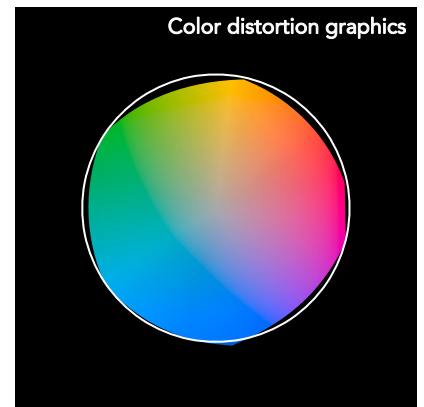
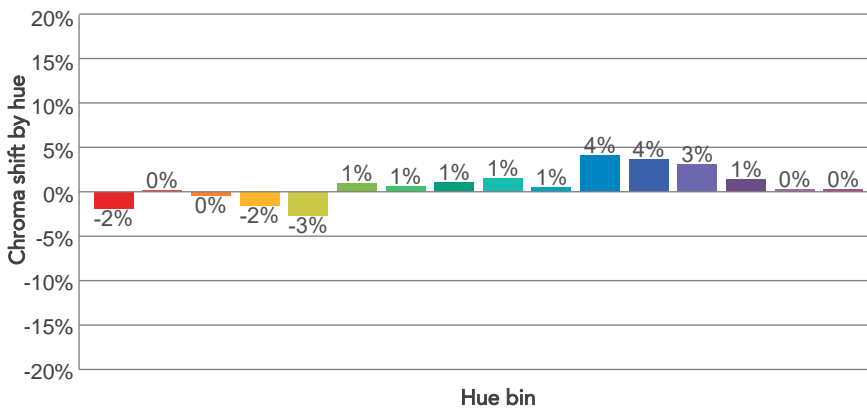
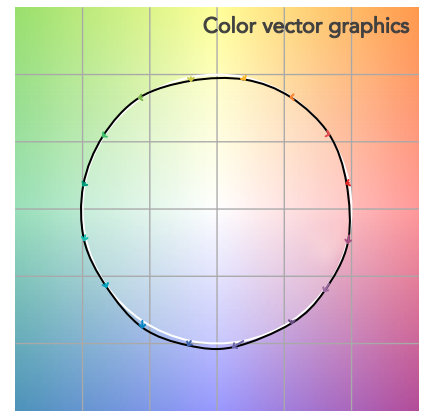
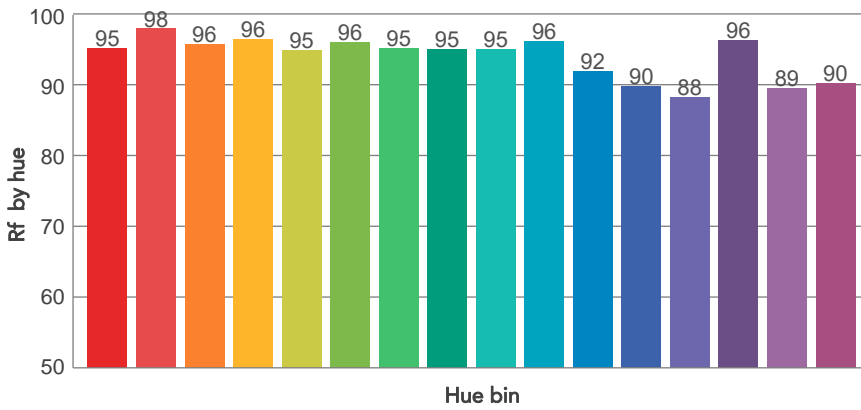
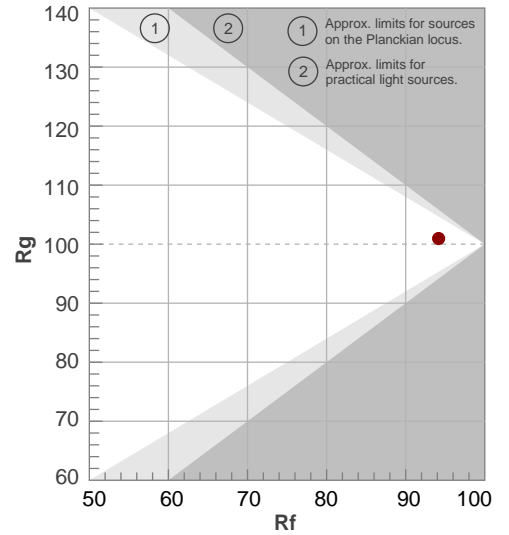
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3993 K	97,5	91,1	94,2	101,0	97,2	89	0,381	0,376	-0,0006

# TM30 DETAILS

**Rf 94,2**  
Fidelity index Rf

**Rg 101,0**  
Gammut index

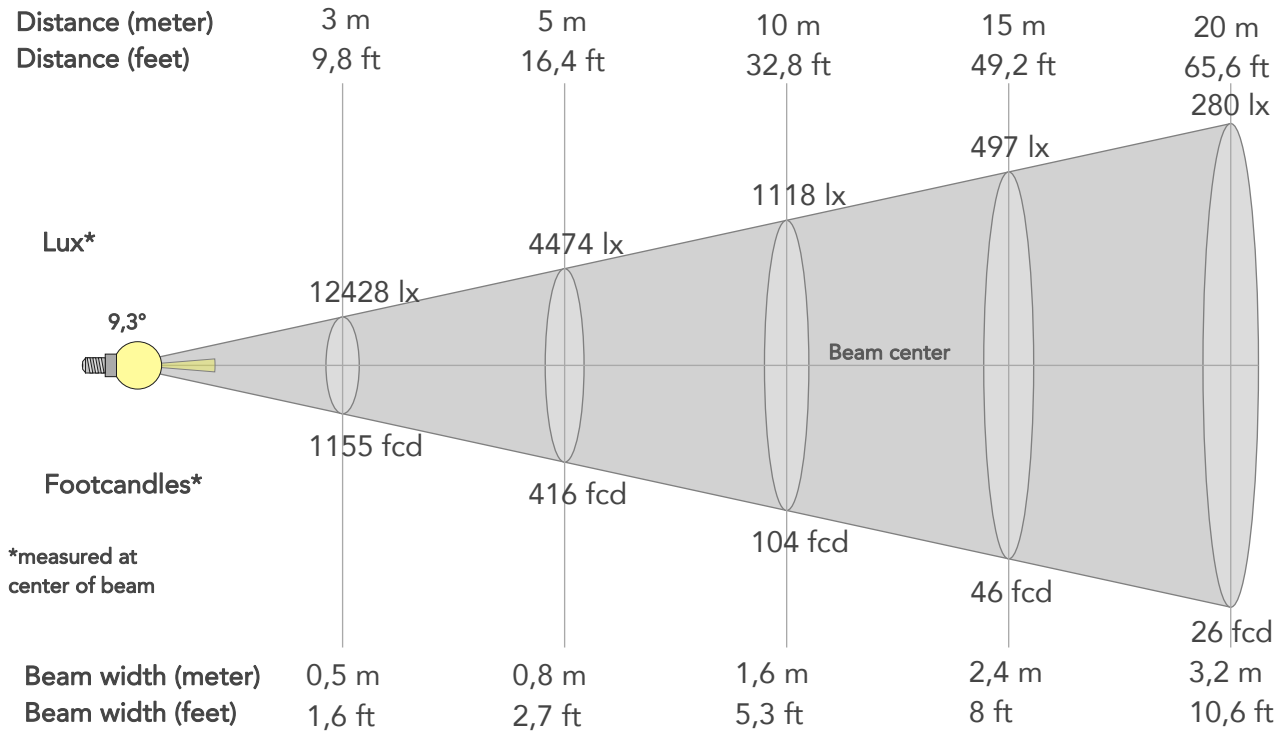
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	98	0%	0%
3	96	0%	1%
4	96	-2%	-1%
5	95	-3%	0%
6	96	1%	2%
7	95	1%	2%
8	95	1%	2%
9	95	1%	3%
10	96	1%	2%
11	92	4%	3%
12	90	4%	-1%
13	88	3%	-8%
14	96	1%	-1%
15	89	0%	-7%
16	90	0%	-6%



# BEAM DETAILS



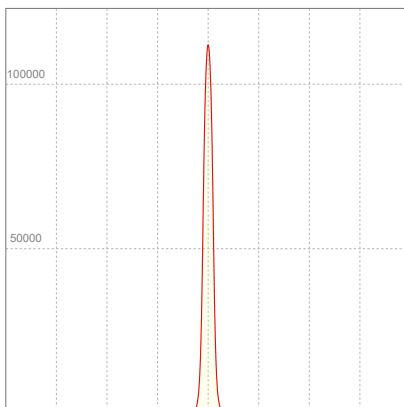
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,3°	15,1°	19,7°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	111850lx	27962lx	12428lx	6991lx	4474lx	1988lx	1118lx	497lx	280lx	179lx	124lx	70lx	45lx
Footcand.	10391fcd	2598fcd	1155fcd	649fcd	416fcd	185fcd	104fcd	46fcd	26fcd	17fcd	12fcd	6fcd	4fcd
Beam wid.	0,2m	0,3m	0,5m	0,6m	0,8m	1,2m	1,6m	2,4m	3,2m	4,1m	4,9m	6,5m	8,1m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,3ft	8ft	10,6ft	13,3ft	16ft	21,3ft	26,6ft

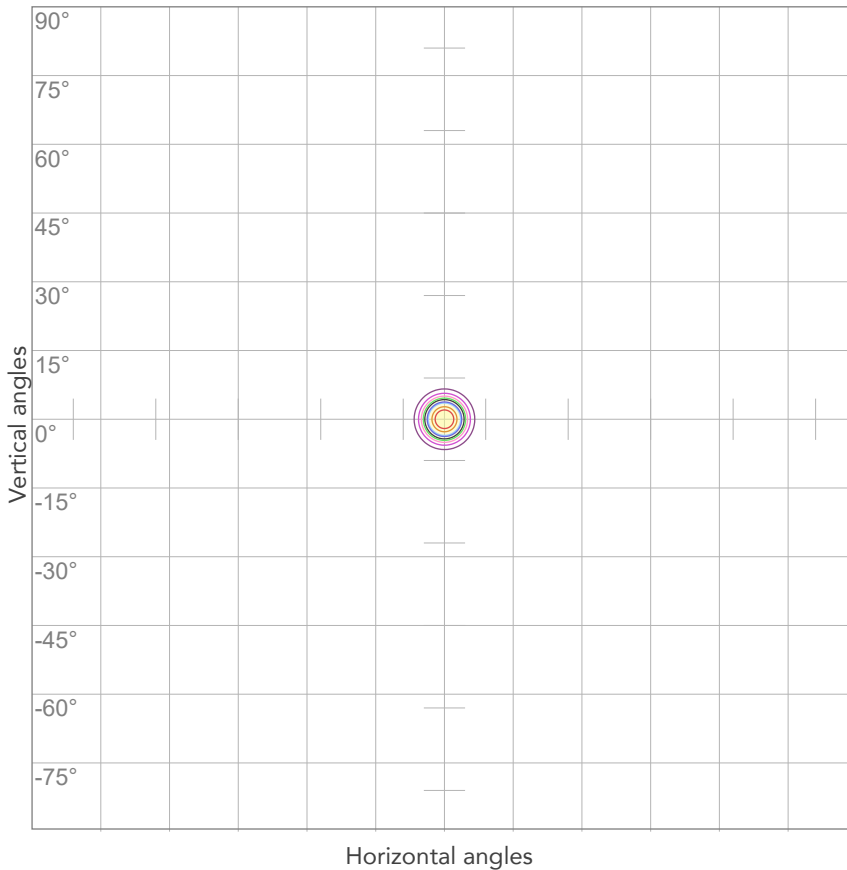
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	1,05A	232W	13lm/W

## ISO CANDELA DIAGRAM



10%	11185 cd
20%	22370 cd
30%	33555 cd
40%	44740 cd
50%	55925 cd
60%	67110 cd
70%	78295 cd
80%	89480 cd

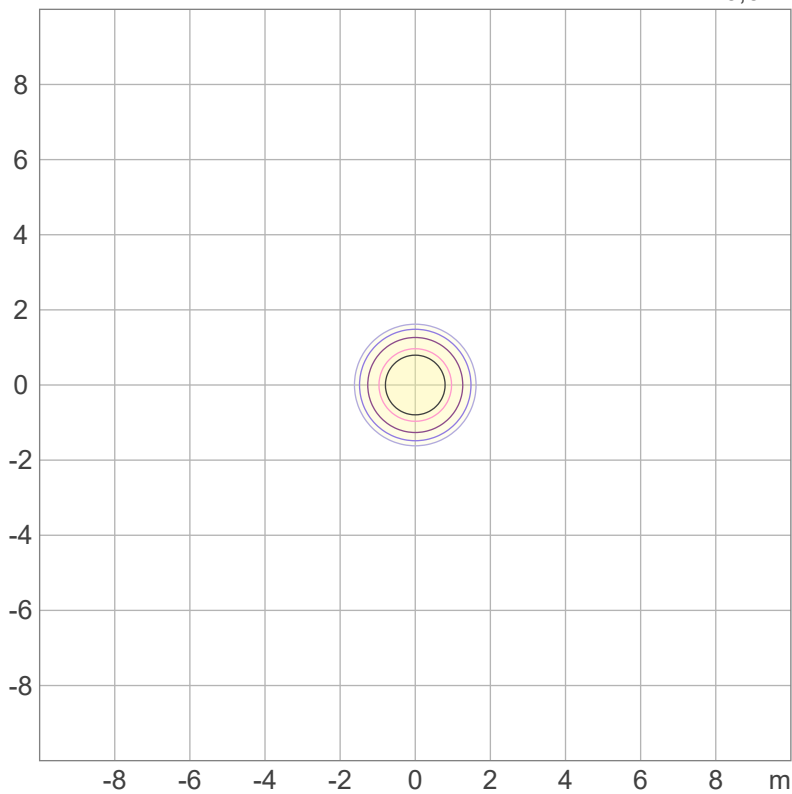
Conditions:

Number of c-planes: 2

Candela at center: 111850 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	33,6 lx
5%	55,9 lx
10%	112 lx
30%	336 lx
50%	559 lx

Conditions:

Number of c-planes: 2

Lux at center: 1118 lx

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





Total lumen output:

6755 lm

Peak candela output:

7772 cd

Light quality:

CRI: 96,8

Color temperature:

5570 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

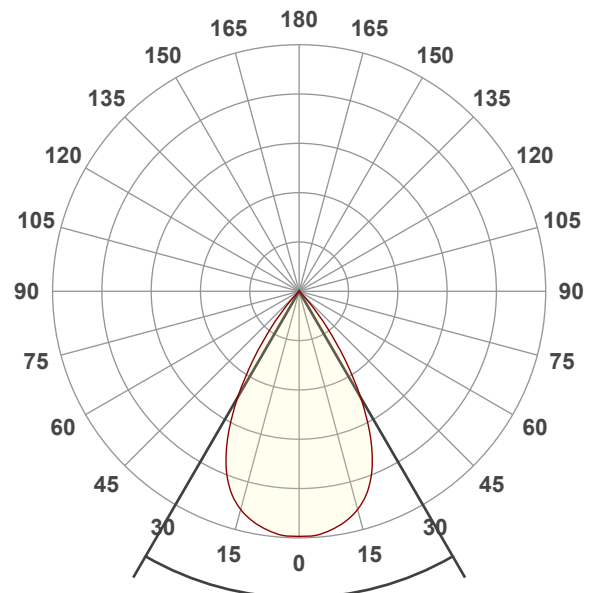
5600K

Operator:

Salvatore Giglio

Date and time:

18/09/2023 13:27:12

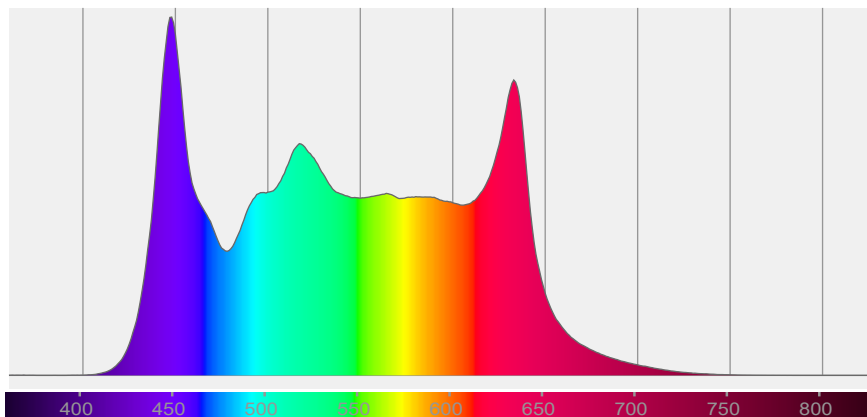


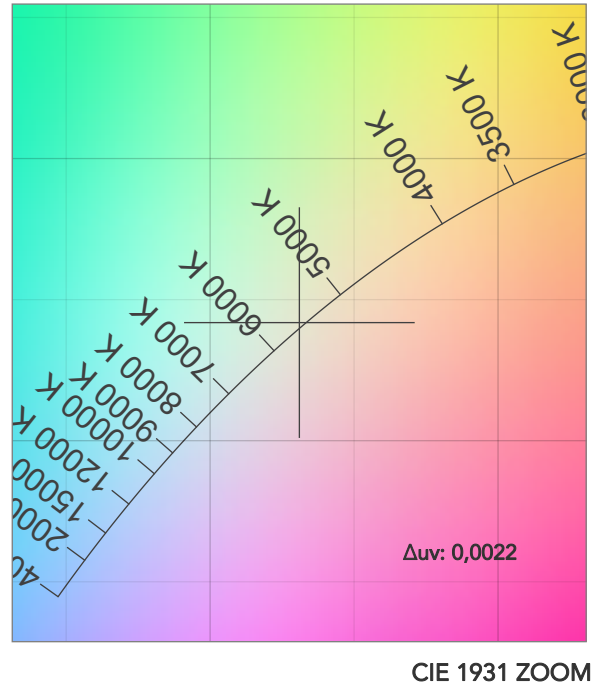
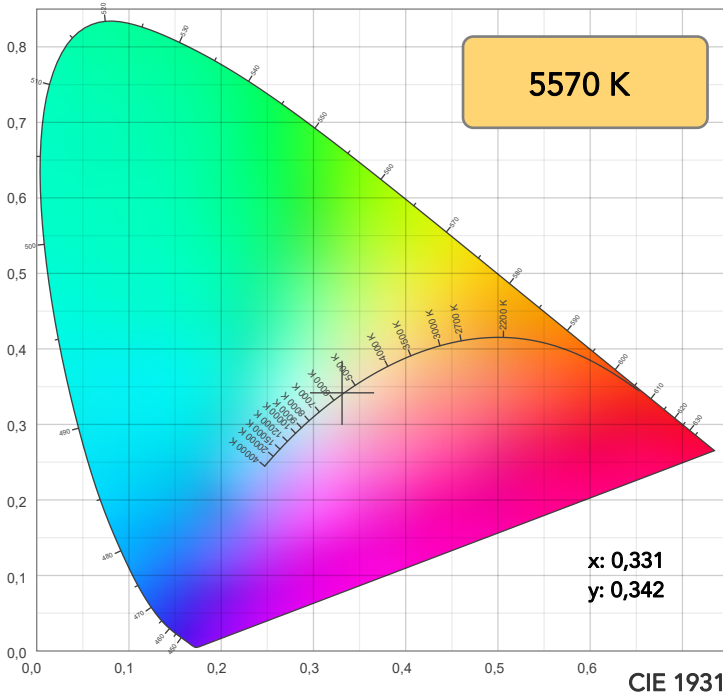
Beam angle 50%: 60,2°

Field angle 10%: 81°

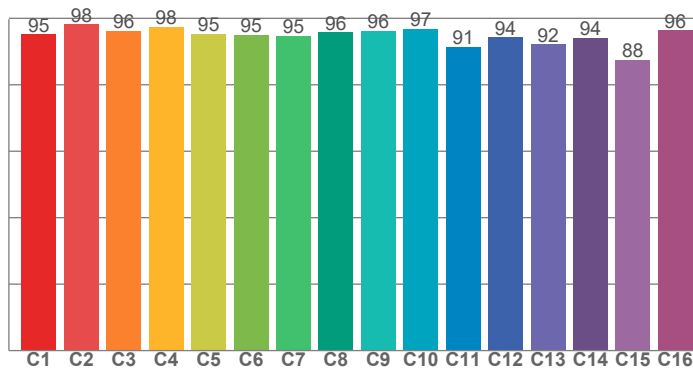
Cut off angle 2.5%: 88,7°

Spectra

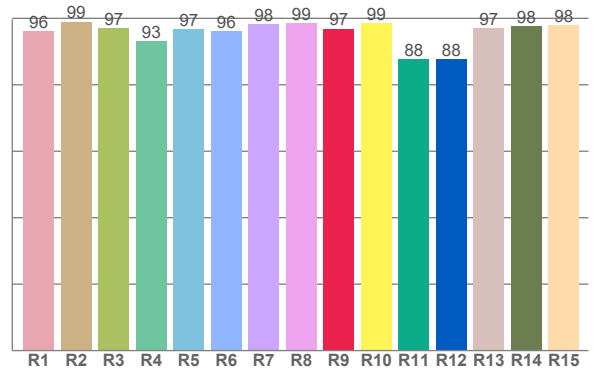




TM30: 94,8



CRI: 96,8 (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
96,1	99,0	97,0	93,0	96,6	96,0	98,1	98,6	96,9	98,6	87,8	87,6	97,0	97,6	97,9

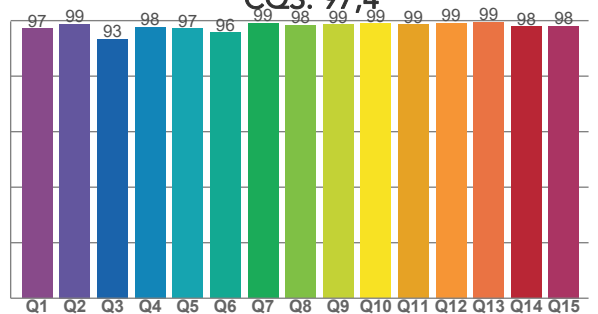
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	98,1	96,2	97,5	95,3	95,0	94,7	95,8	96,3	96,8	91,4	94,2	92,2	94,1	87,5	96,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,1	98,9	93,3	97,8	97,2	95,8	99,1	98,3	98,6	98,9	98,6	99,1	99,5	97,8	98,0

CQS: 97,4



COLOR PARAMETERS

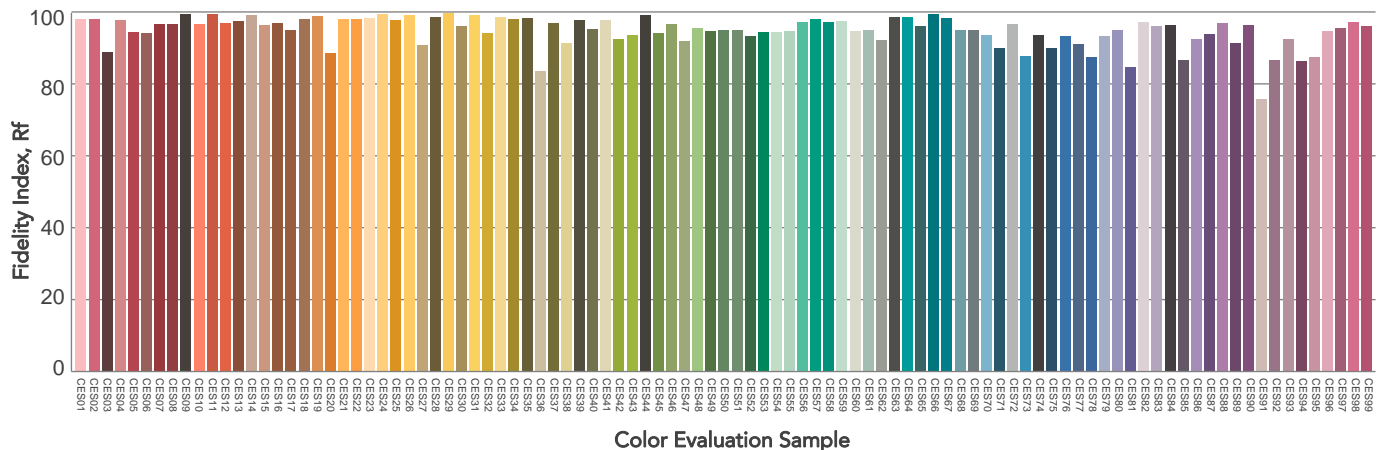
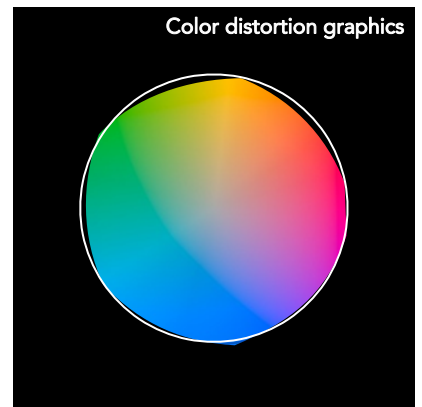
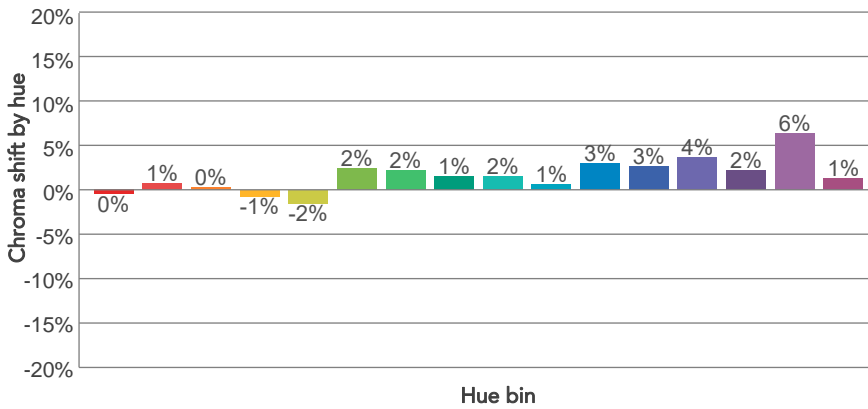
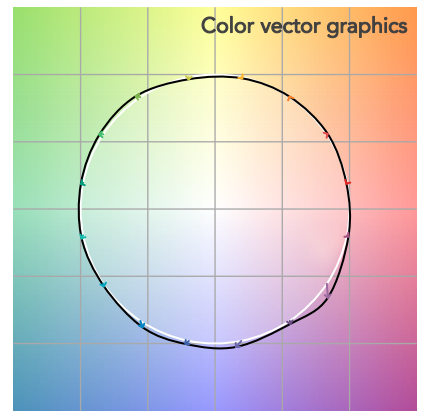
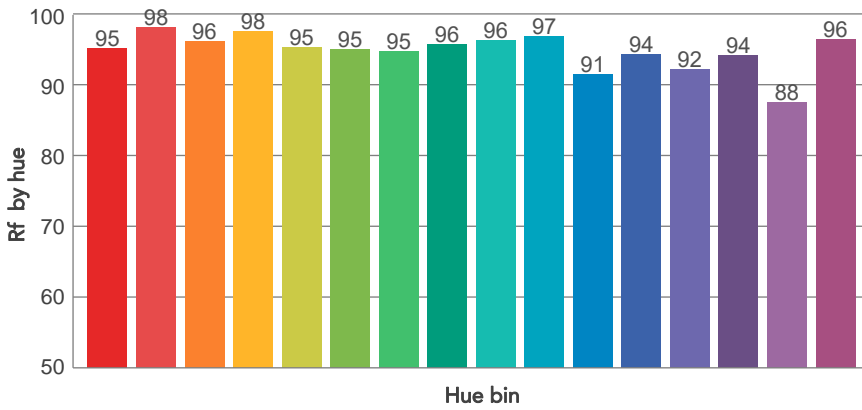
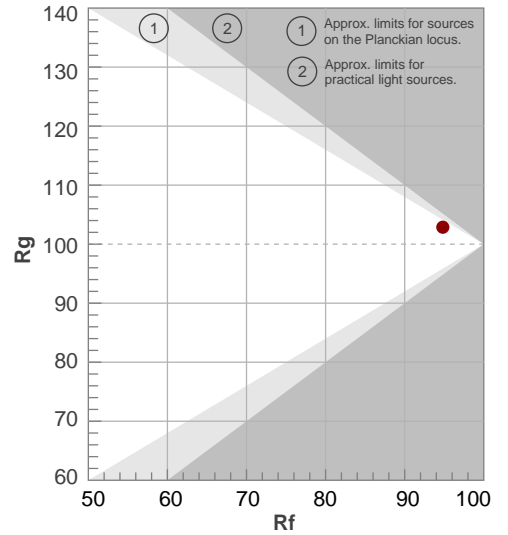
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5570 K	96,8	96,9	94,8	102,9	97,4	94	0,331	0,342	0,0022

# TM30 DETAILS

**Rf 94,8**  
Fidelity index Rf

**Rg 102,9**  
Gammut index

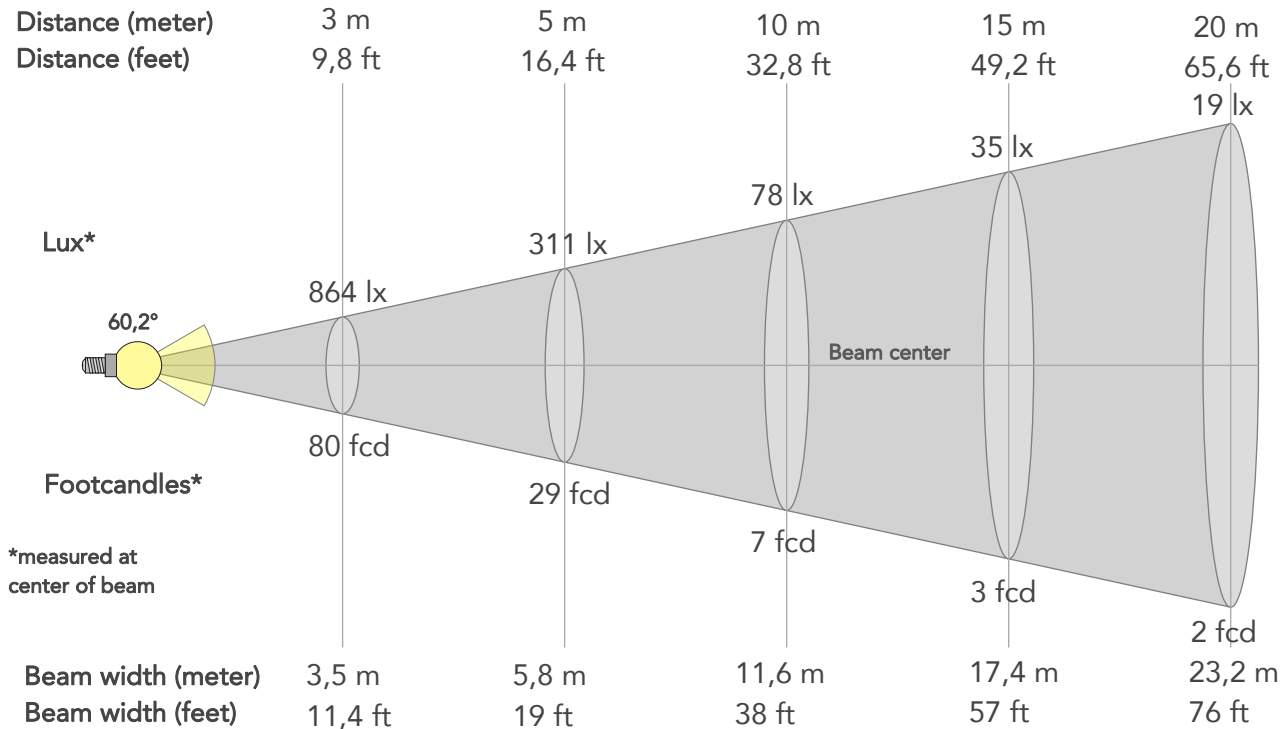
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	98	1%	0%
3	96	0%	0%
4	98	-1%	-1%
5	95	-2%	0%
6	95	2%	2%
7	95	2%	2%
8	96	1%	1%
9	96	2%	2%
10	97	1%	2%
11	91	3%	4%
12	94	3%	-2%
13	92	4%	-5%
14	94	2%	-1%
15	88	6%	-8%
16	96	1%	-1%



# BEAM DETAILS



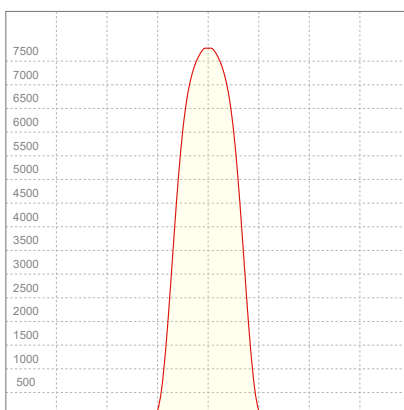
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,2°	81°	88,7°	100,0%	99,7%



## 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	7772lx	1943lx	864lx	486lx	311lx	138lx	78lx	35lx	19lx	12lx	9lx	5lx	3lx
Footcand.	722fcd	181fcd	80fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,4m	23,2m	29m	34,8m	46,4m	58m
Beam wid.	3,8ft	7,7ft	11,4ft	15,2ft	19ft	28,5ft	38ft	57ft	76ft	95ft	114,1ft	152,1ft	190,1ft

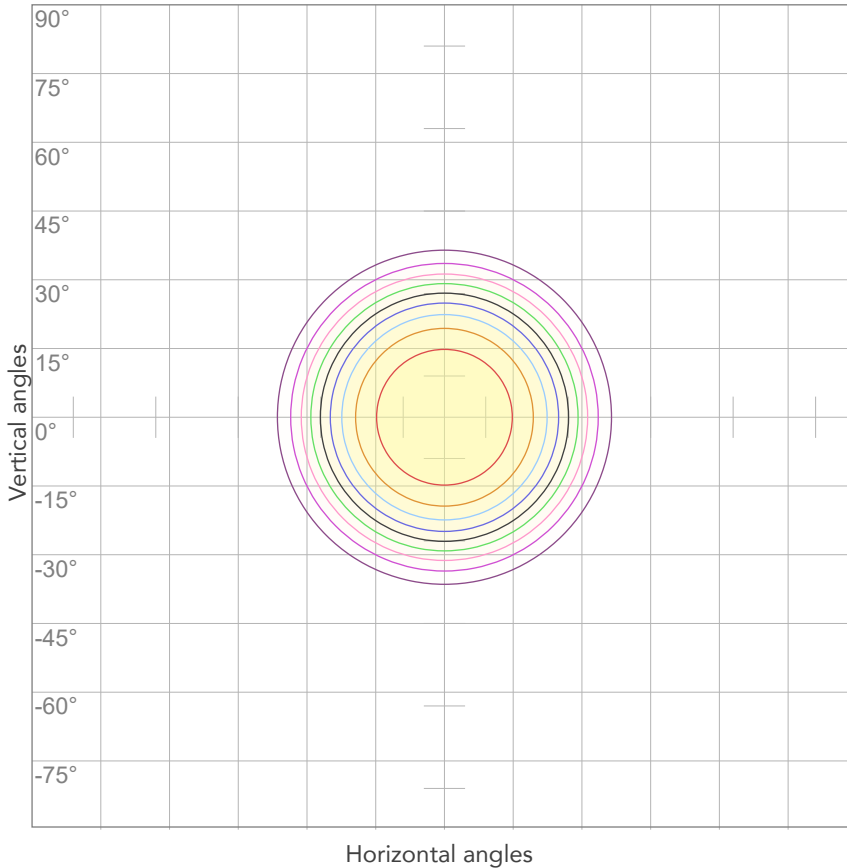
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,933A	206,8W	33lm/W

## ISO CANDELA DIAGRAM



10%	777 cd
20%	1554 cd
30%	2332 cd
40%	3109 cd
50%	3886 cd
60%	4663 cd
70%	5440 cd
80%	6218 cd

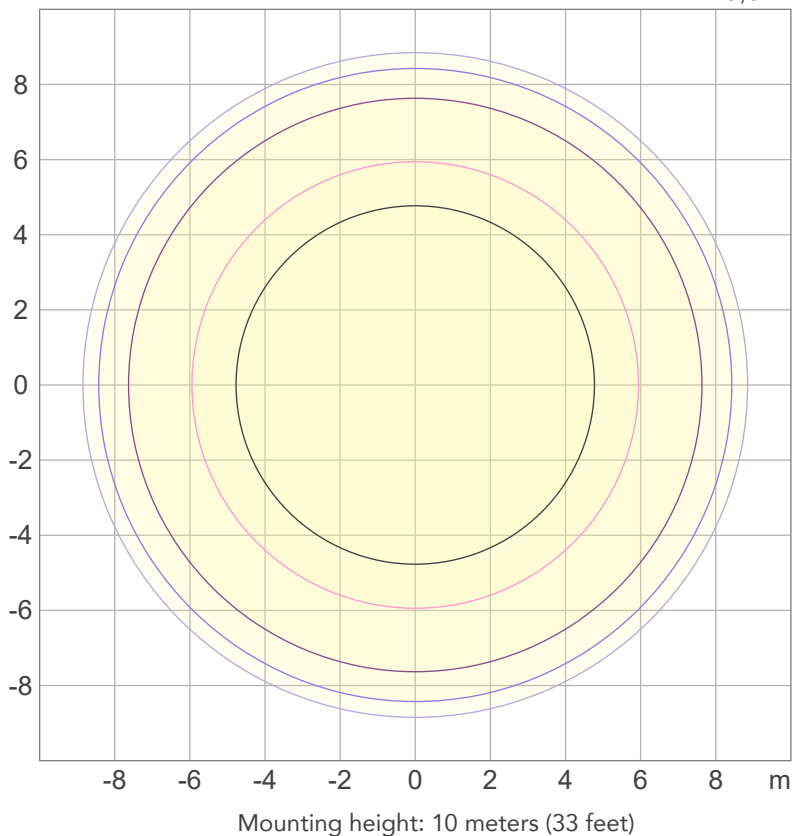
Conditions:

Number of c-planes: 2

Candela at center: 7772 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	2,33 lx
5%	3,89 lx
10%	7,77 lx
30%	23,3 lx
50%	38,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 77,7 lx

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



Total lumen output:

5185 lm

Peak candela output:

26158 cd

Light quality:

CRI: 97,2

Color temperature:

5706 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Med Zoom

Target:

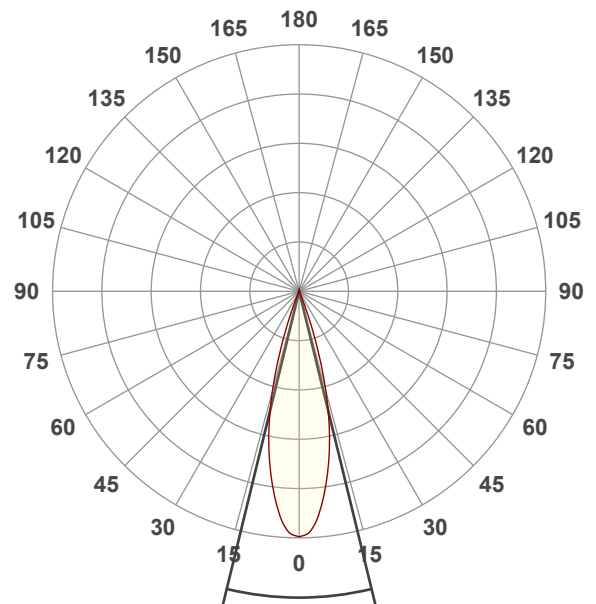
5600K

Operator:

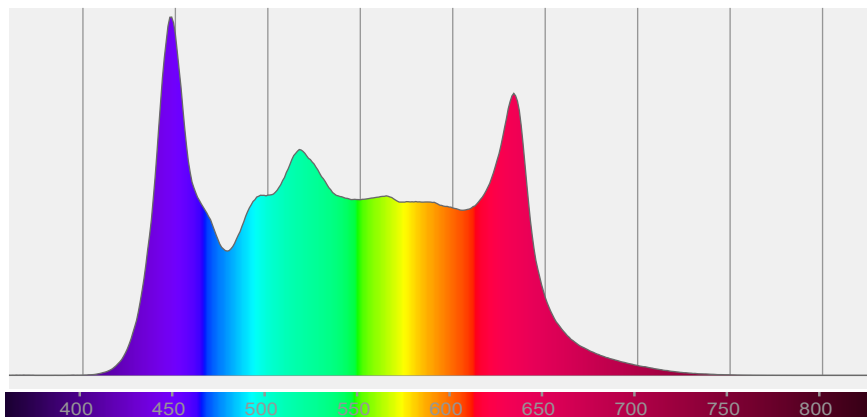
Salvatore Giglio

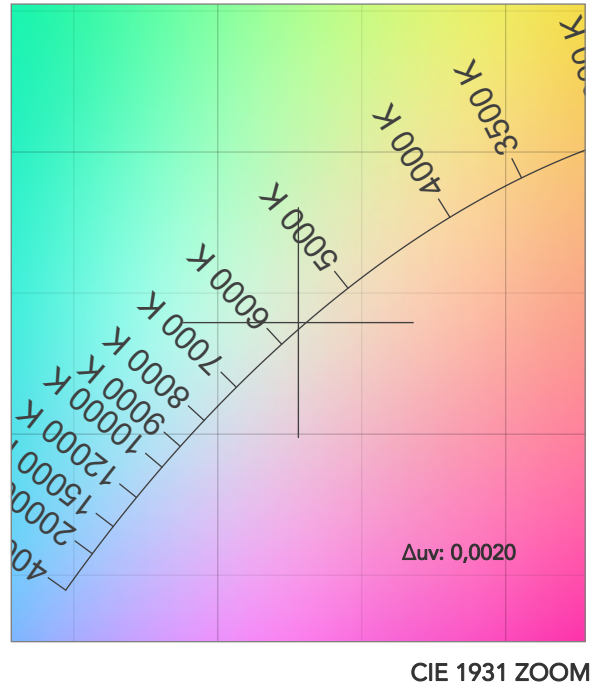
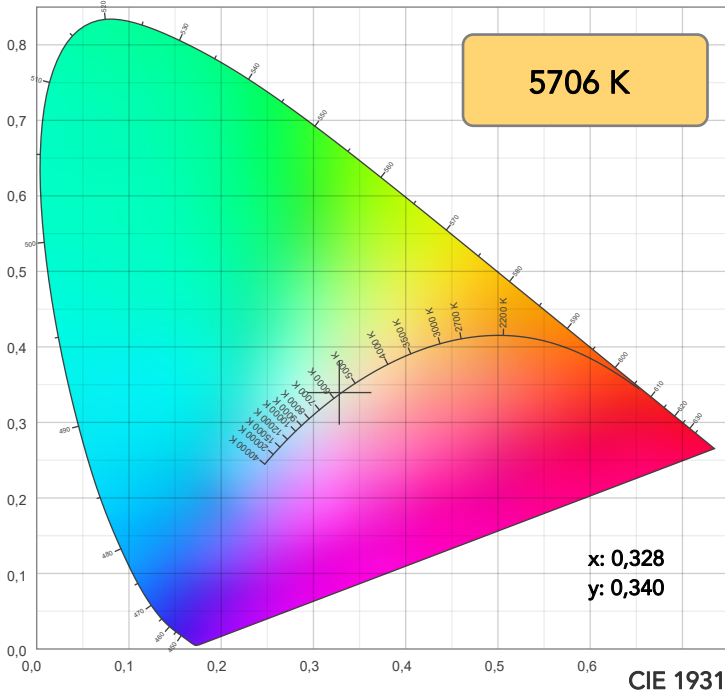
Date and time:

18/09/2023 12:55:24

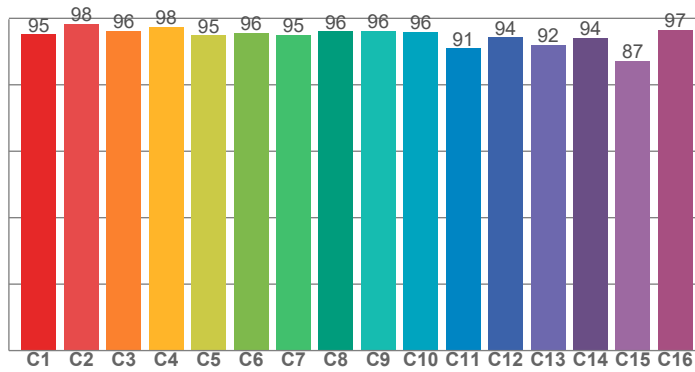


Spectra

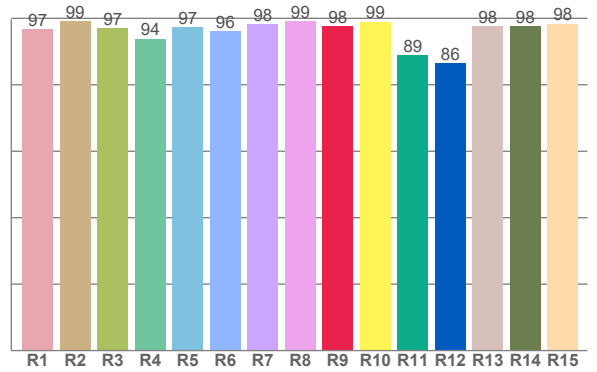




**TM30: 94,8**



**CRI: 97,2 (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
96,7	99,1	96,9	93,8	97,4	96,2	98,1	99,1	97,7	99,0	88,9	86,5	97,5	97,6	98,3

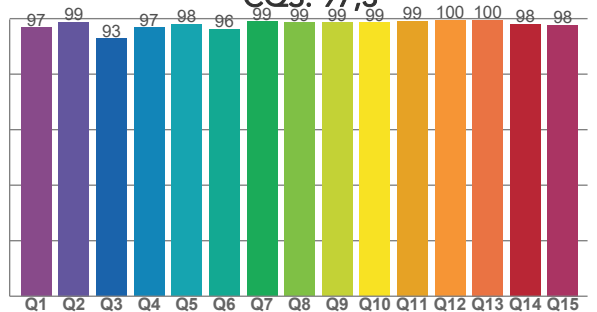
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	98,3	96,3	97,5	94,9	95,6	95,1	96,1	96,3	96,0	90,9	94,3	92,1	94,1	87,1	96,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	98,8	92,8	96,8	98,0	96,2	98,9	98,6	98,6	98,6	99,2	99,5	99,6	98,0	97,7

**CQS: 97,3**



**COLOR PARAMETERS**

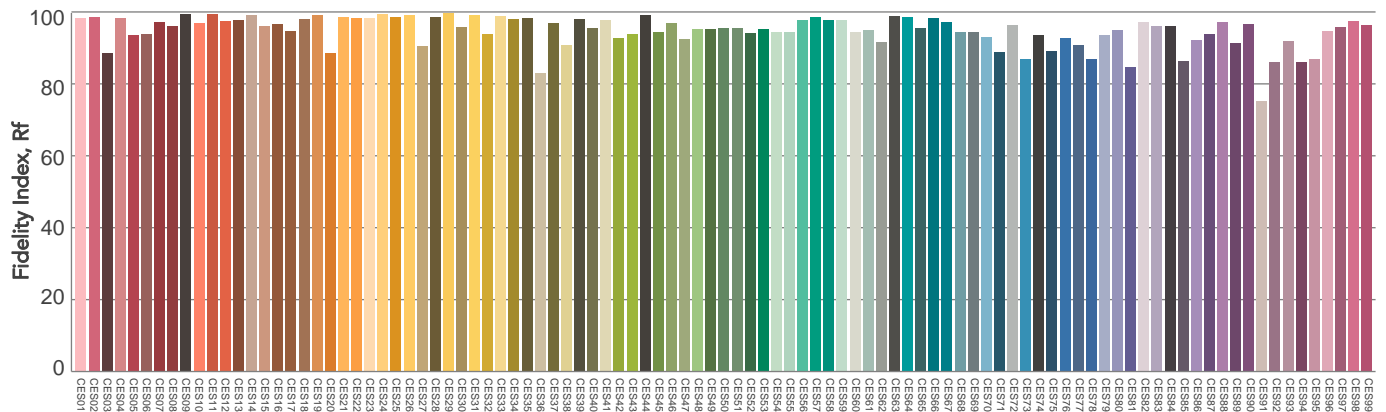
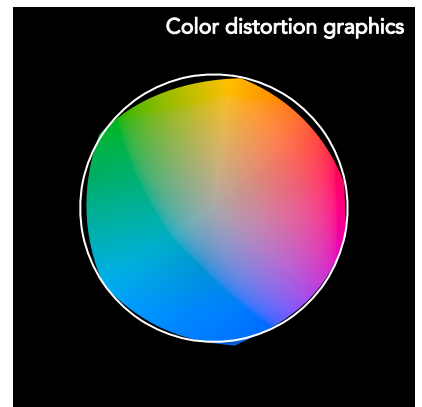
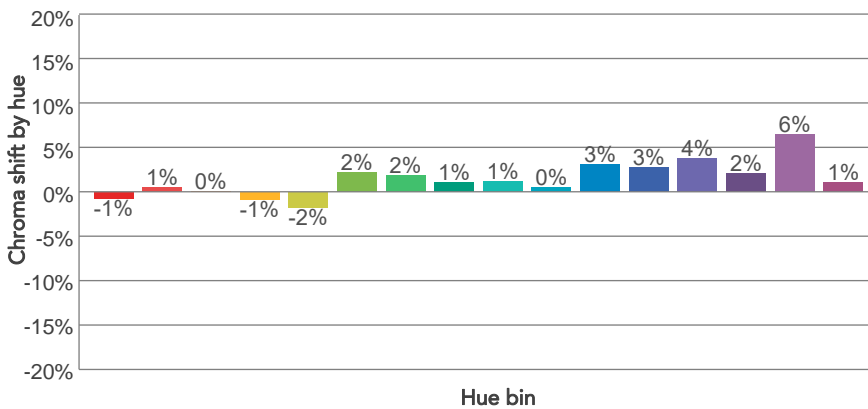
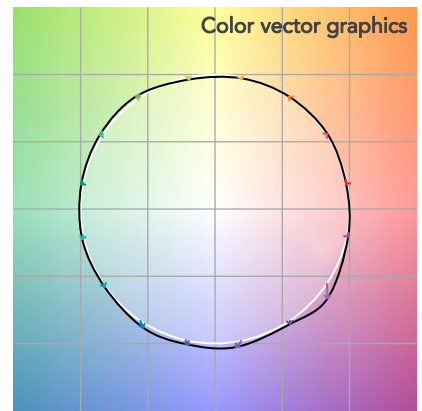
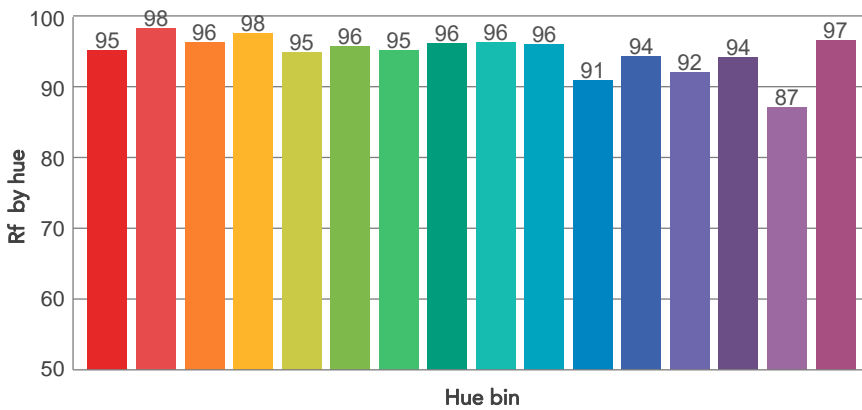
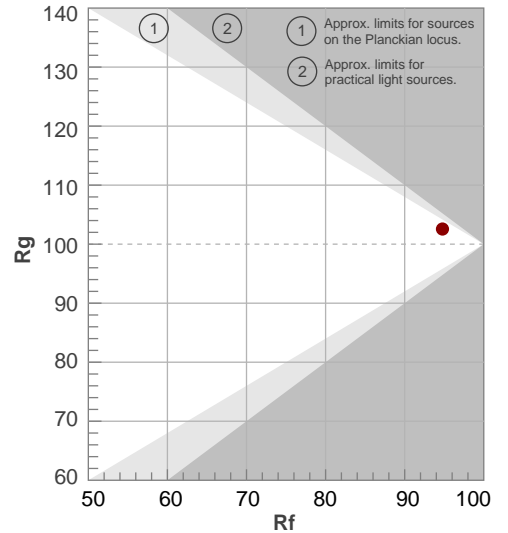
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
5706 K	97,2	97,7	94,8	102,6	97,3	94	0,328	0,340	0,0020

# TM30 DETAILS

**Rf 94,8**  
Fidelity index Rf

**Rg 102,6**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	98	1%	0%
3	96	0%	1%
4	98	-1%	-1%
5	95	-2%	0%
6	96	2%	2%
7	95	2%	2%
8	96	1%	1%
9	96	1%	3%
10	96	0%	2%
11	91	3%	4%
12	94	3%	-2%
13	92	4%	-5%
14	94	2%	-1%
15	87	6%	-9%
16	97	1%	-1%



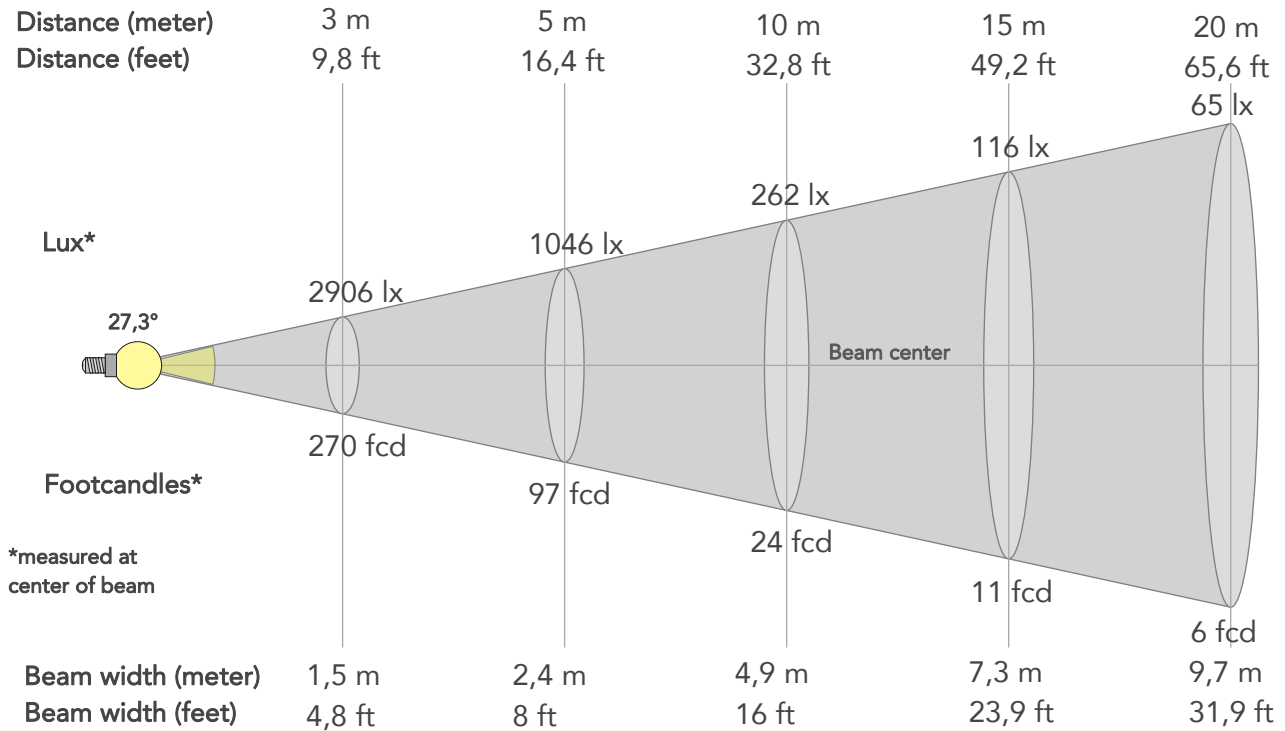
Color Evaluation Sample



# BEAM DETAILS



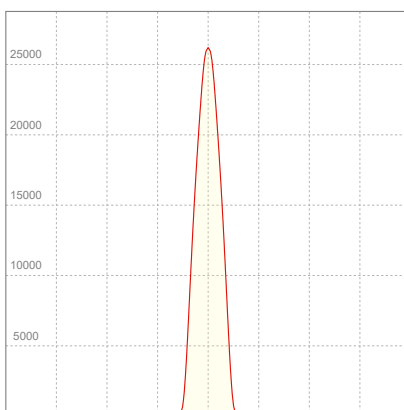
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,3°	40,9°	46,2°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	26158lx	6539lx	2906lx	1635lx	1046lx	465lx	262lx	116lx	65lx	42lx	29lx	16lx	10lx
Footcand.	2430fcd	608fcd	270fcd	152fcd	97fcd	43fcd	24fcd	11fcd	6fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,6m	4,9m	7,3m	9,7m	12,2m	14,6m	19,5m	24,3m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	12ft	16ft	23,9ft	31,9ft	39,9ft	47,9ft	63,8ft	79,8ft

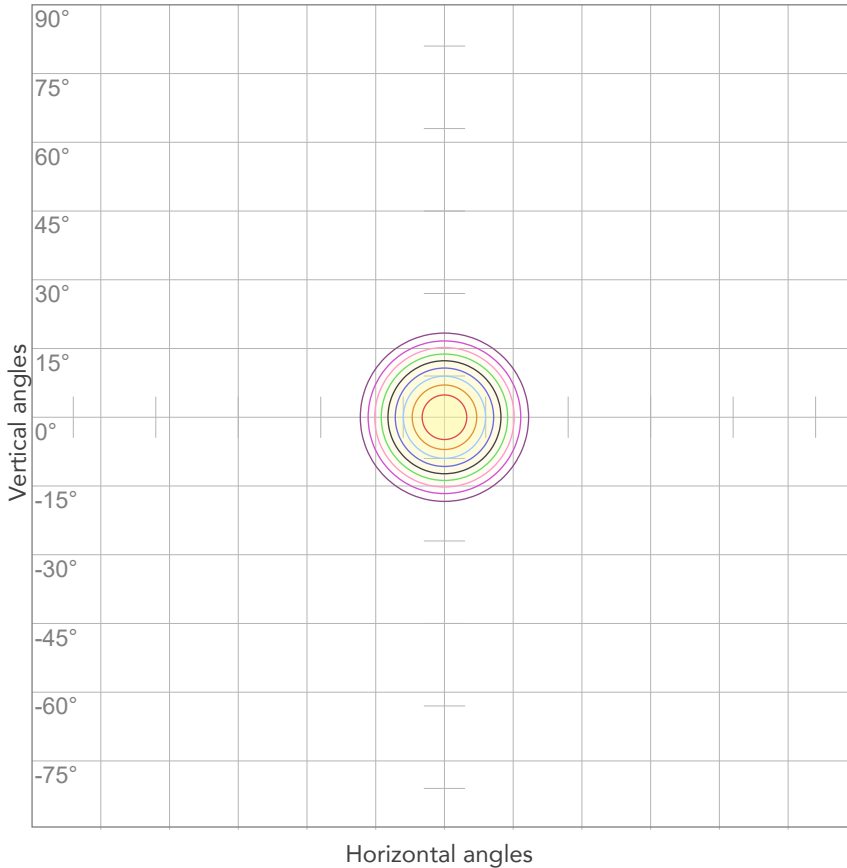
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,927A	205,6W	25lm/W

## ISO CANDELA DIAGRAM



10%	2616 cd
20%	5232 cd
30%	7847 cd
40%	10463 cd
50%	13079 cd
60%	15695 cd
70%	18310 cd
80%	20926 cd

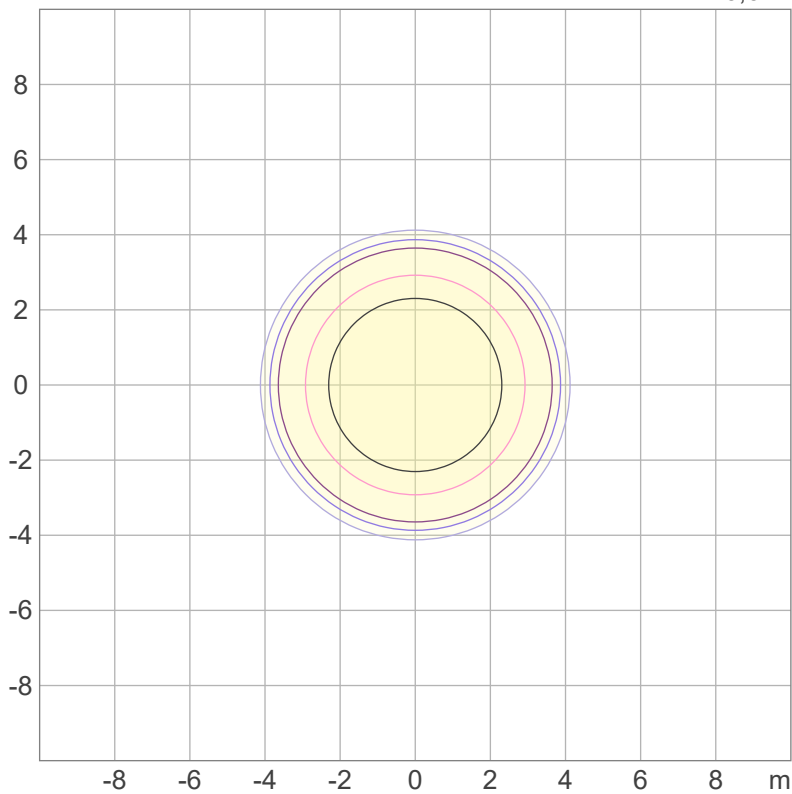
Conditions:

Number of c-planes: 2

Candela at center: 26158 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	7,85 lx
5%	13,1 lx
10%	26,2 lx
30%	78,5 lx
50%	131 lx

Conditions:

Number of c-planes: 2

Lux at center: 262 lx

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



Total lumen output:

2678 lm

Peak candela output:

99187 cd

Light quality:

CRI: 97,3

Color temperature:

5720 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

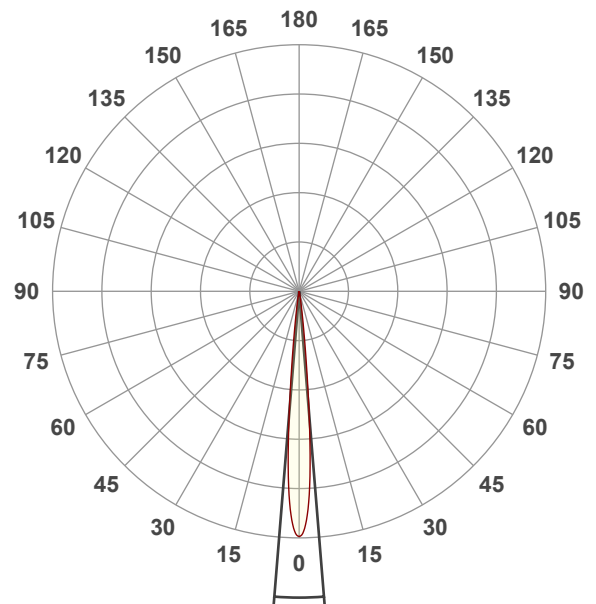
5600K

Operator:

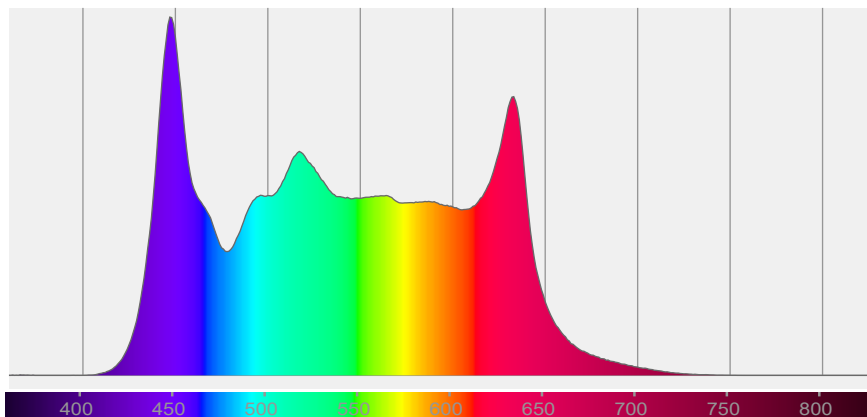
Salvatore Giglio

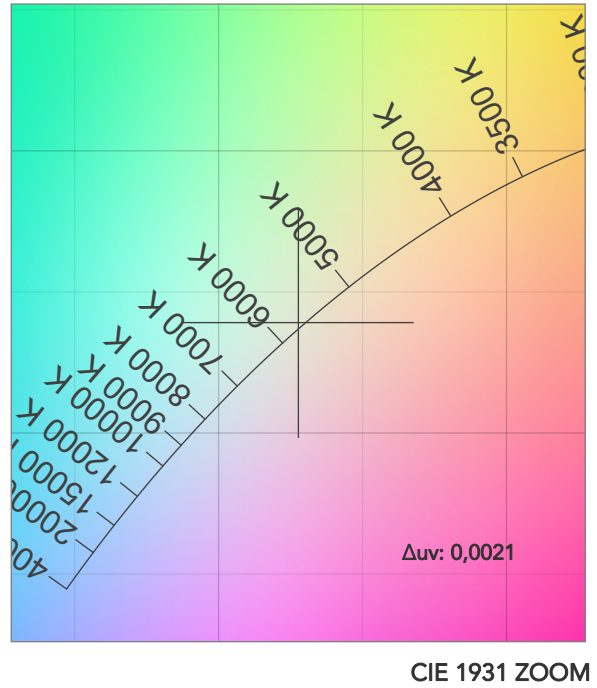
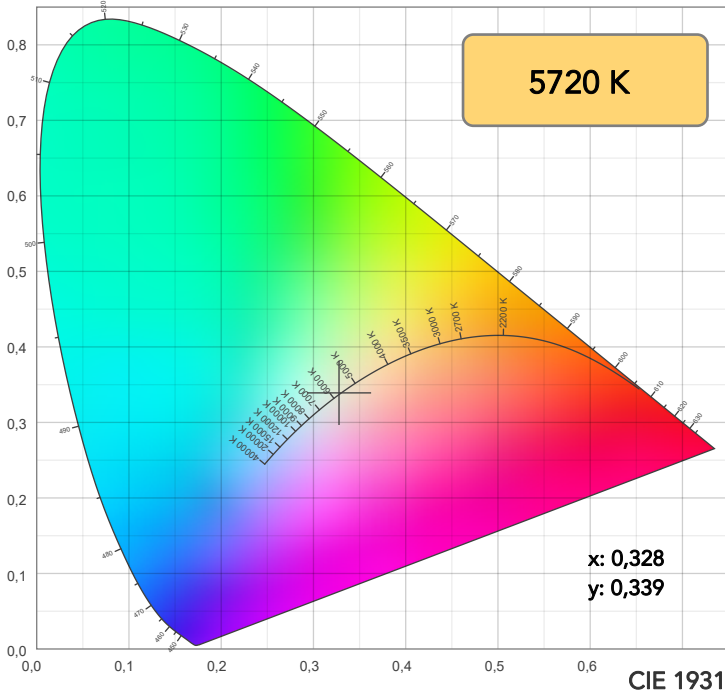
Date and time:

18/09/2023 13:19:46

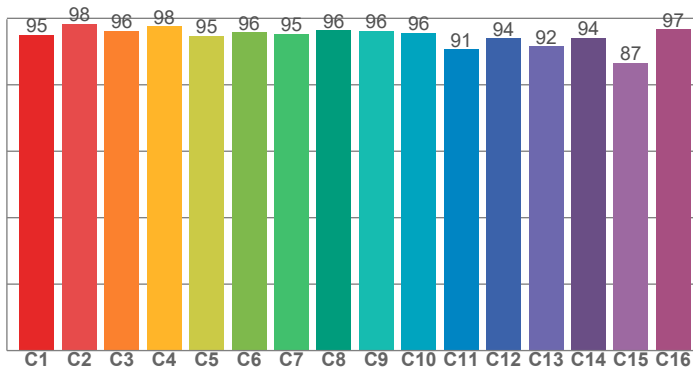


Spectra

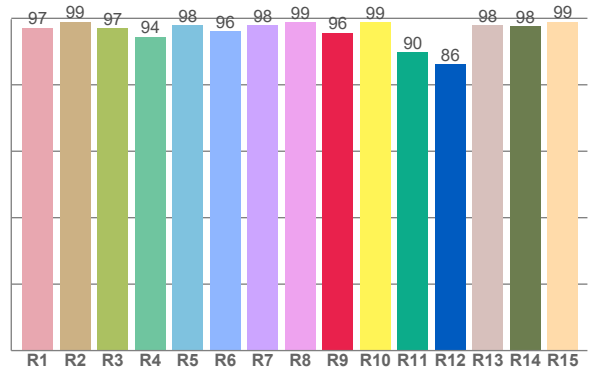




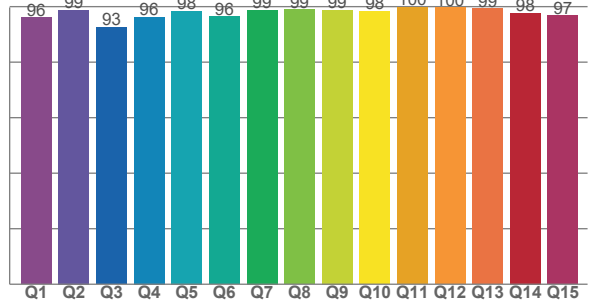
TM30: 94,7



CRI: 97,3 (R1-R8)



CQS: 97,1



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
97,2	99,0	97,1	94,4	97,9	96,1	97,9	98,8	95,7	98,8	89,7	86,2	98,0	97,7	99,0

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	98,3	96,2	97,5	94,8	95,8	95,3	96,3	96,2	95,6	90,7	94,0	91,6	94,1	86,7	96,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	98,7	92,5	96,2	98,5	96,4	98,8	99,0	98,7	98,3	99,8	99,7	99,3	97,6	96,8

COLOR PARAMETERS

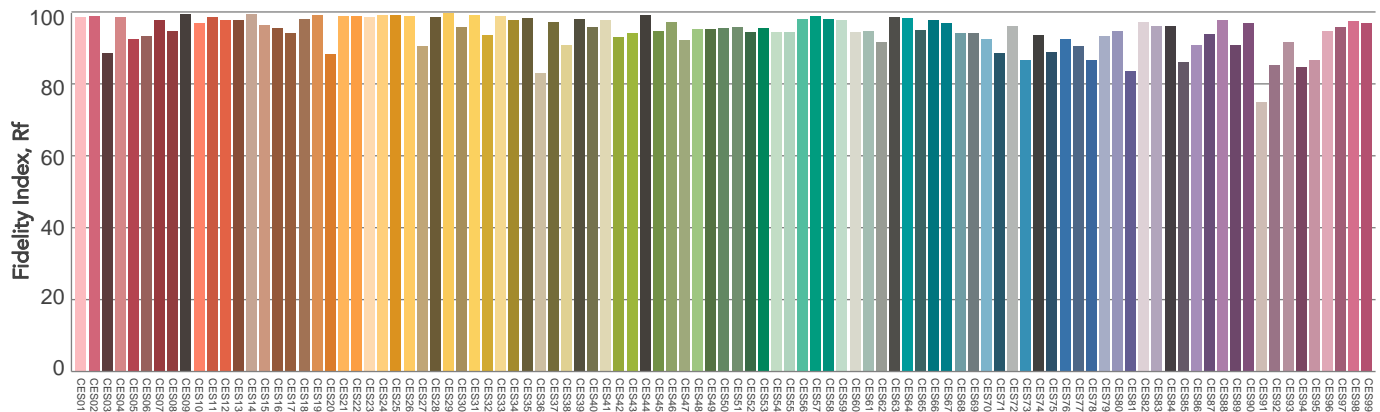
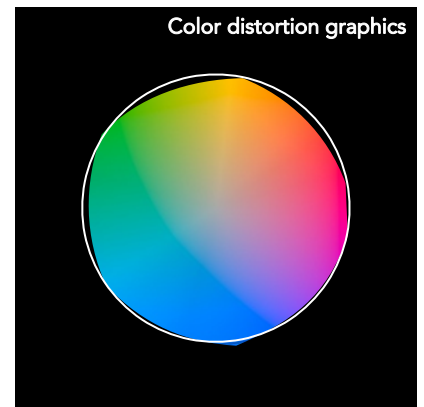
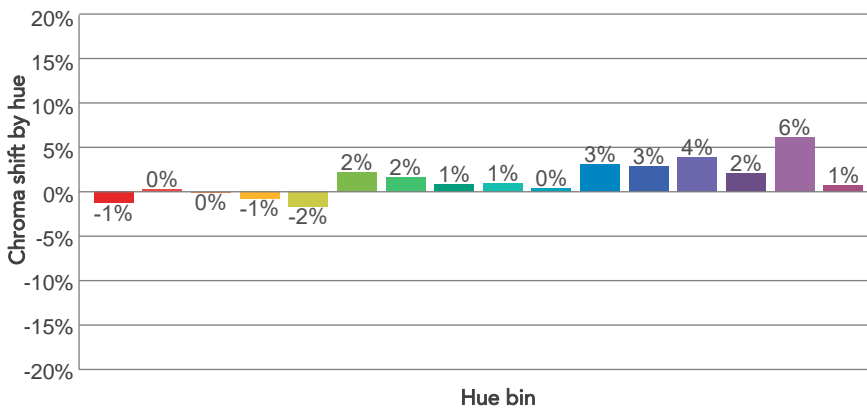
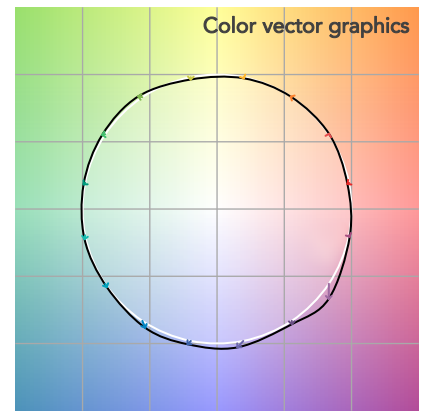
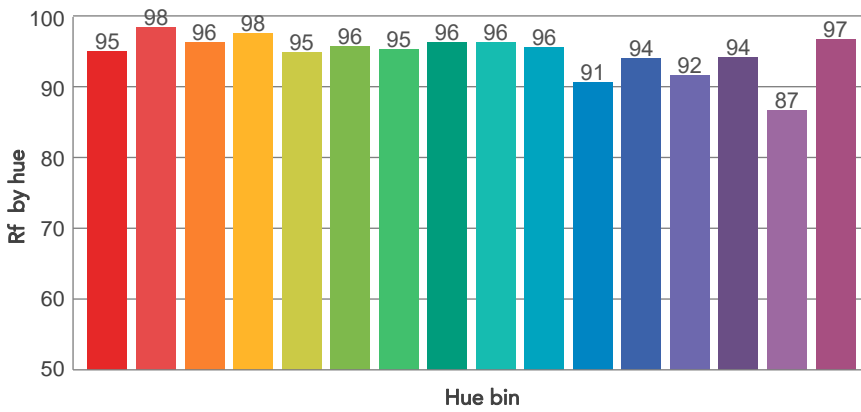
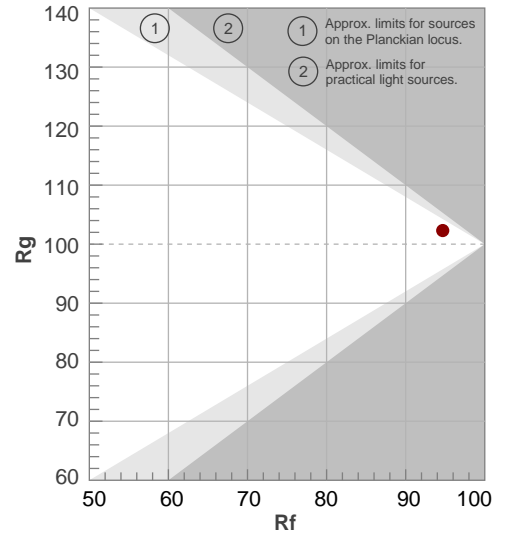
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5720 K	97,3	95,7	94,7	102,3	97,1	93	0,328	0,339	0,0021

# TM30 DETAILS

**Rf 94,7**  
Fidelity index Rf

**Rg 102,3**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	98	0%	0%
3	96	0%	1%
4	98	-1%	-1%
5	95	-2%	0%
6	96	2%	2%
7	95	2%	2%
8	96	1%	1%
9	96	1%	3%
10	96	0%	3%
11	91	3%	5%
12	94	3%	-2%
13	92	4%	-5%
14	94	2%	-1%
15	87	6%	-9%
16	97	1%	-1%

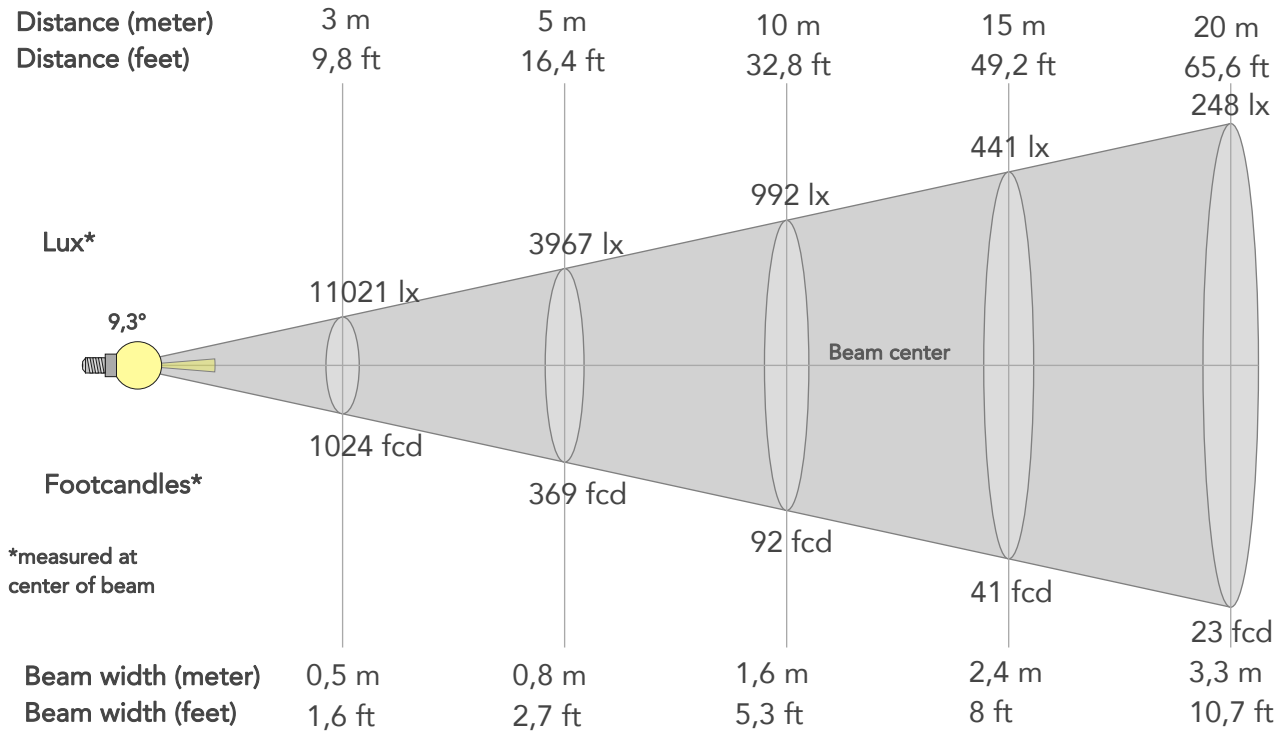


Color Evaluation Sample

# BEAM DETAILS



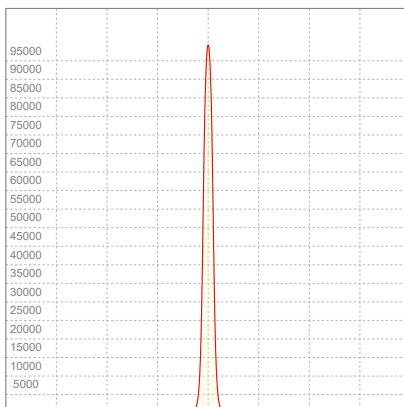
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,3°	15,1°	19,9°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	99187lx	24797lx	11021lx	6199lx	3967lx	1763lx	992lx	441lx	248lx	159lx	110lx	62lx	40lx
Footcand.	9215fcd	2304fcd	1024fcd	576fcd	369fcd	164fcd	92fcd	41fcd	23fcd	15fcd	10fcd	6fcd	4fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,4m	3,3m	4,1m	4,9m	6,5m	8,1m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,3ft	8ft	10,7ft	13,3ft	16ft	21,3ft	26,7ft

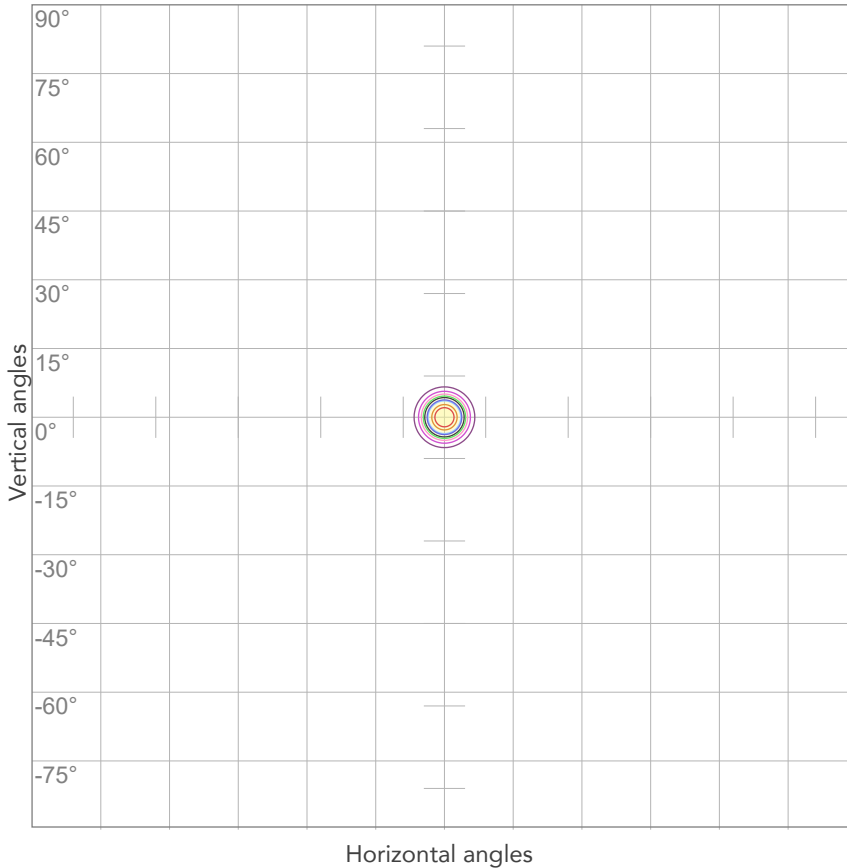
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,921A	203,8W	13lm/W

## ISO CANDELA DIAGRAM



10%	9919 cd
20%	19837 cd
30%	29756 cd
40%	39675 cd
50%	49593 cd
60%	59512 cd
70%	69431 cd
80%	79349 cd

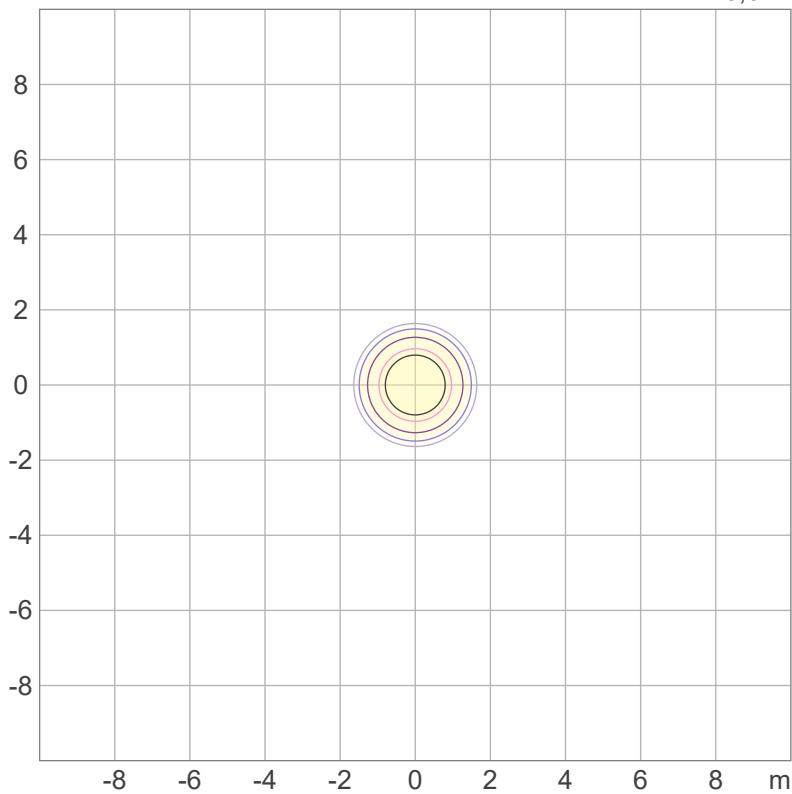
Conditions:

Number of c-planes: 2

Candela at center: 99187 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	29,8 lx
5%	49,6 lx
10%	99,2 lx
30%	298 lx
50%	496 lx

Conditions:

Number of c-planes: 2

Lux at center: 992 lx

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



Total lumen output:

6290 lm

Peak candela output:

7236 cd

Light quality:

CRI: 97,3

Color temperature:

6088 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Max Zoom

Target:

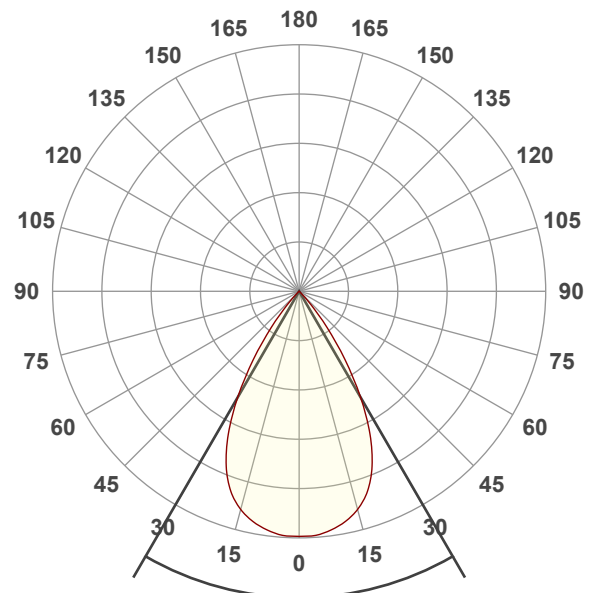
6000K

Operator:

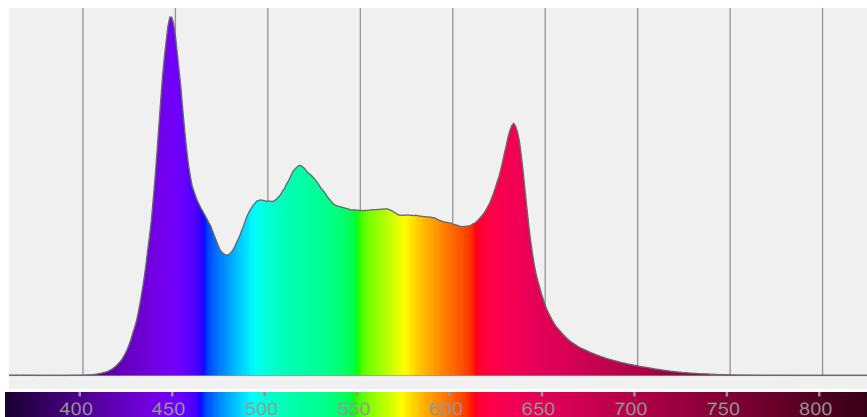
Salvatore Giglio

Date and time:

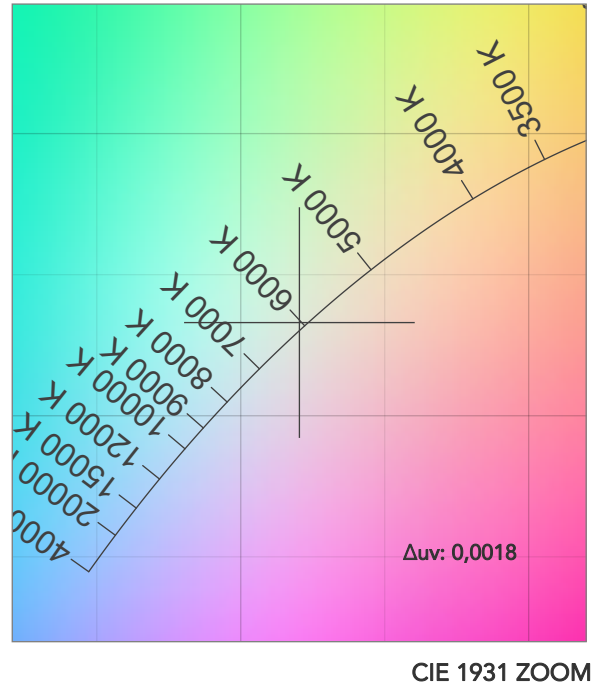
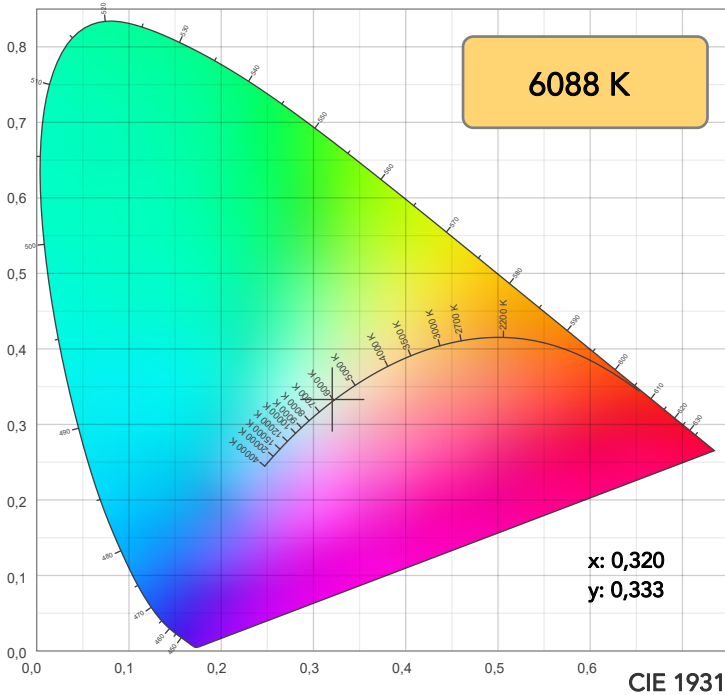
18/09/2023 13:31:21



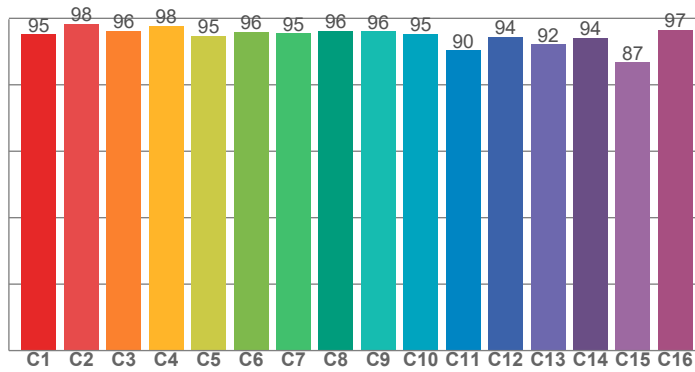
Spectra



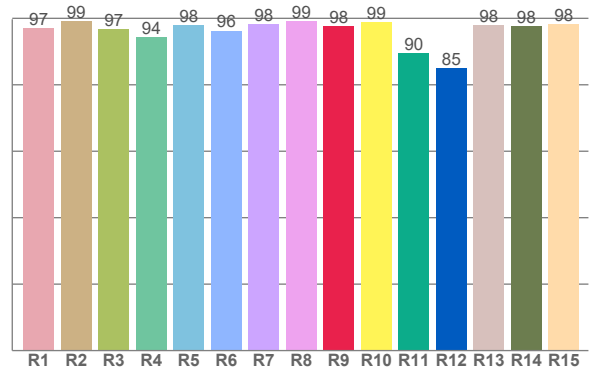




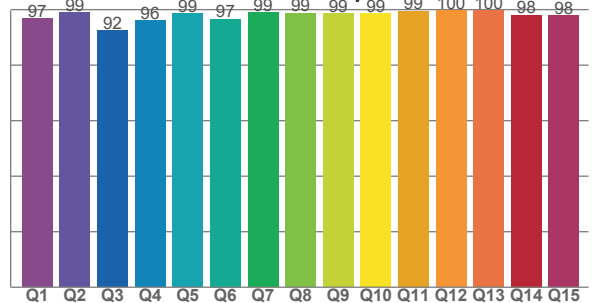
TM30: 94,7



CRI: 97,3 (R1-R8)



CQS: 97,2



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
97,0	99,1	96,7	94,3	97,8	96,3	98,2	99,1	97,7	98,9	89,5	85,1	97,9	97,6	98,2

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	98,4	96,3	97,6	94,7	95,9	95,5	96,2	96,1	95,3	90,4	94,5	92,2	94,2	86,7	96,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	99,0	92,4	96,0	98,5	96,6	99,0	98,7	98,5	98,5	99,4	99,6	99,6	98,1	97,8

COLOR PARAMETERS

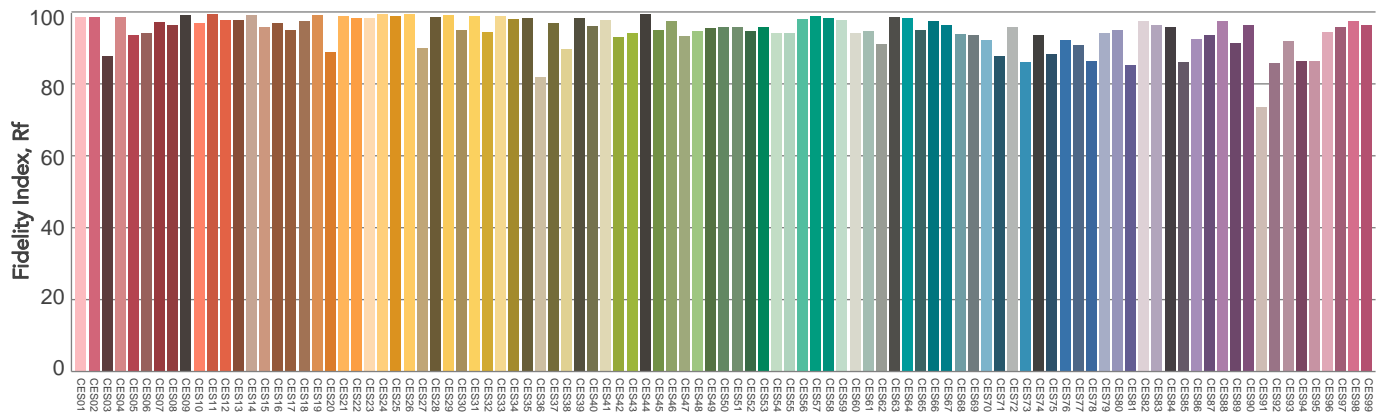
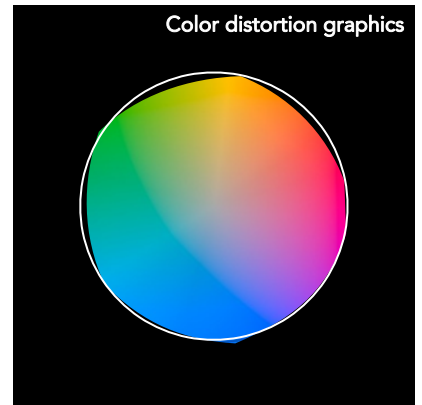
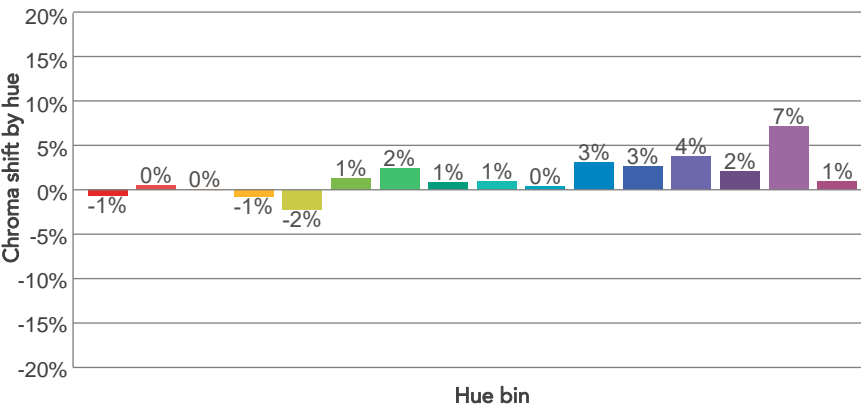
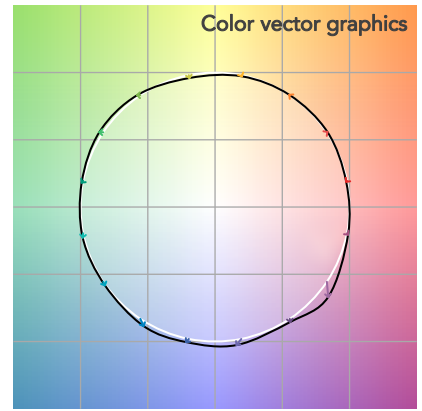
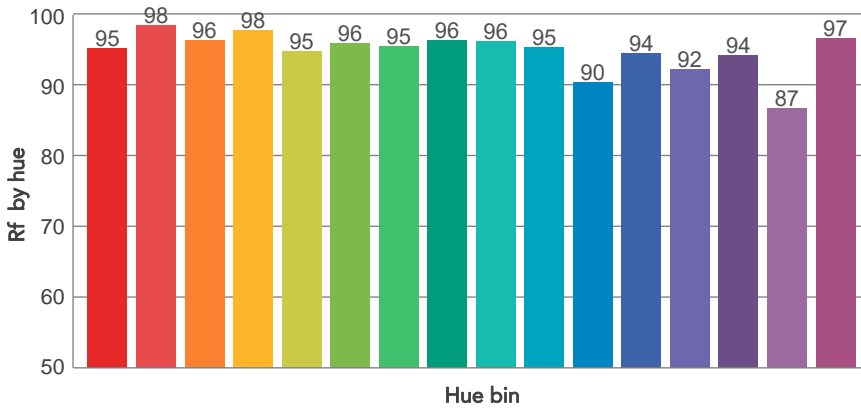
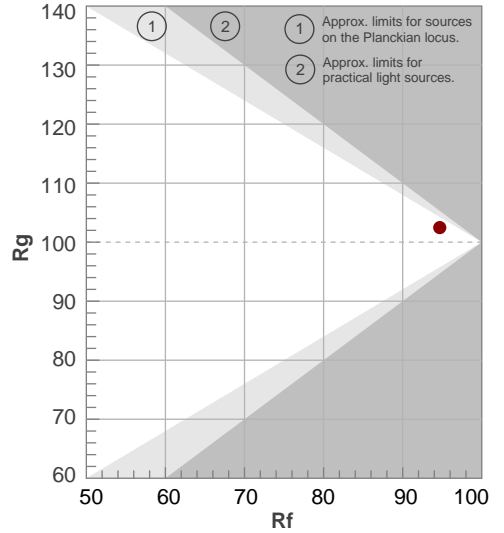
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6088 K	97,3	97,7	94,7	102,5	97,2	94	0,320	0,333	0,0018

# TM30 DETAILS

**Rf 94,7**  
Fidelity index Rf

**Rg 102,5**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	98	0%	0%
3	96	0%	0%
4	98	-1%	-1%
5	95	-2%	0%
6	96	1%	2%
7	95	2%	1%
8	96	1%	2%
9	96	1%	3%
10	95	0%	3%
11	90	3%	5%
12	94	3%	-1%
13	92	4%	-4%
14	94	2%	-1%
15	87	7%	-9%
16	97	1%	-1%

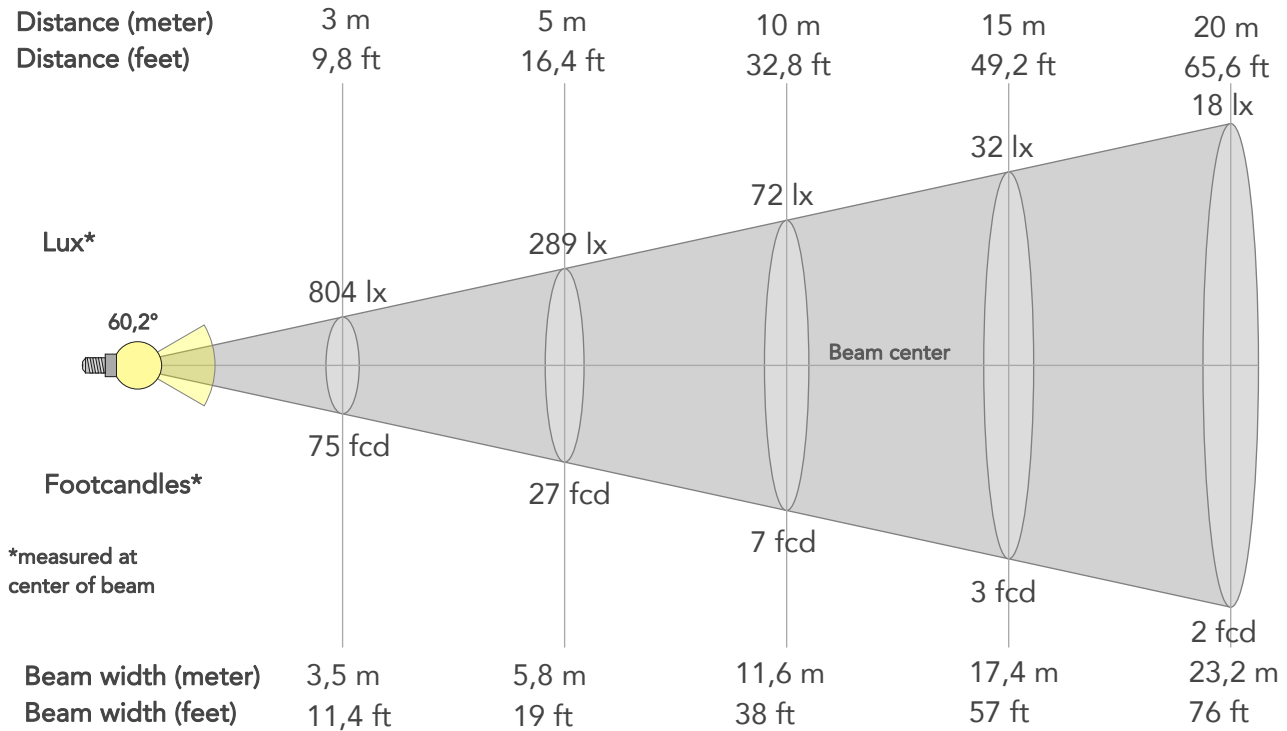


Color Evaluation Sample

# BEAM DETAILS



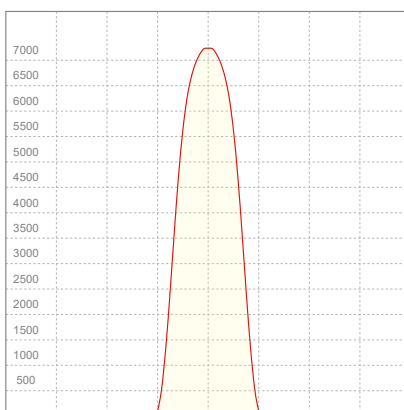
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
60,2°	81°	88,8°	100,0%	99,6%



## 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	7236lx	1809lx	804lx	452lx	289lx	129lx	72lx	32lx	18lx	12lx	8lx	5lx	3lx
Footcand.	672fcd	168fcd	75fcd	42fcd	27fcd	12fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,2m	2,3m	3,5m	4,6m	5,8m	8,7m	11,6m	17,4m	23,2m	29m	34,8m	46,4m	57,9m
Beam wid.	3,8ft	7,6ft	11,4ft	15,2ft	19ft	28,5ft	38ft	57ft	76ft	95ft	114ft	152ft	190,1ft

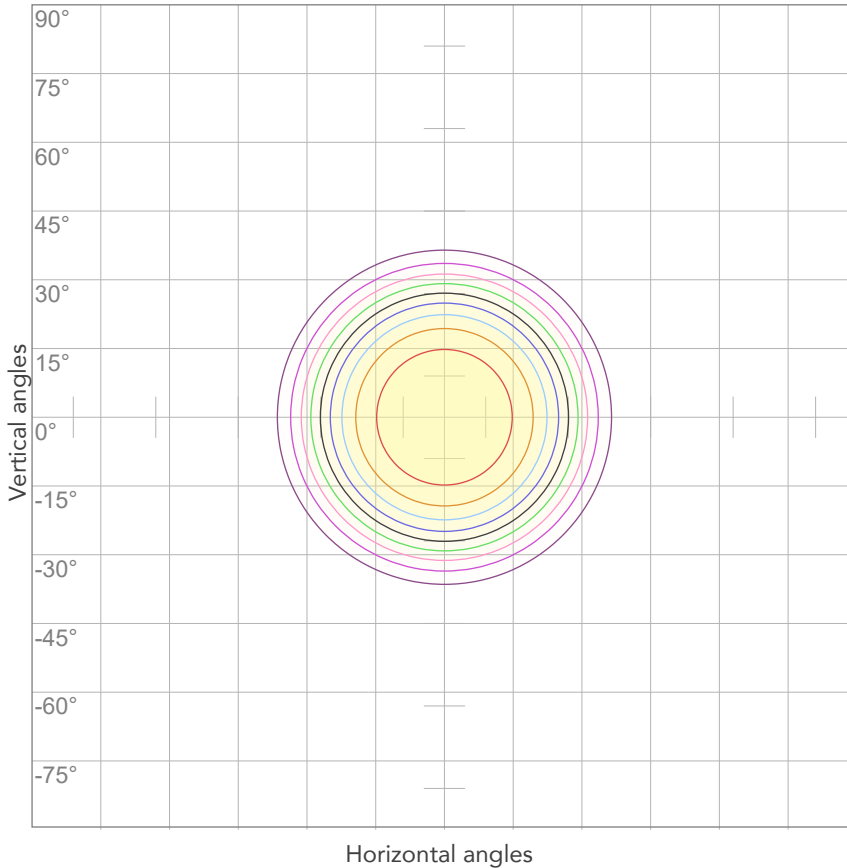
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,865A	191,1W	33lm/W

## ISO CANDELA DIAGRAM



10%	724 cd
20%	1447 cd
30%	2171 cd
40%	2894 cd
50%	3618 cd
60%	4342 cd
70%	5065 cd
80%	5789 cd

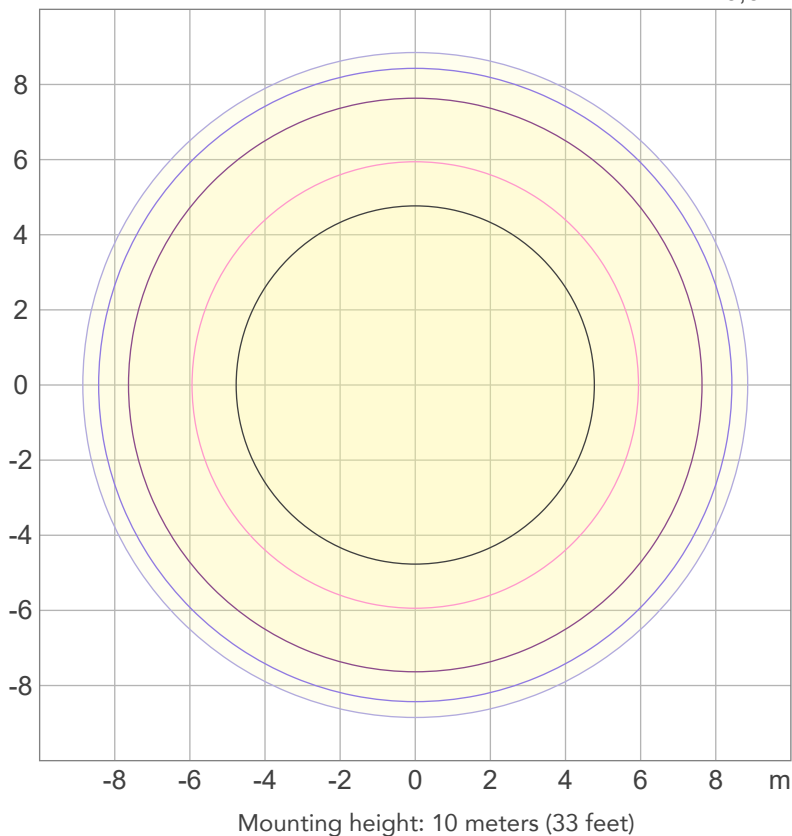
Conditions:

Number of c-planes: 2

Candela at center: 7236 cd

## ISO LUX DIAGRAM

MH: 10,0 m



3%	2,17 lx
5%	3,62 lx
10%	7,24 lx
30%	21,7 lx
50%	36,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 72,4 lx

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



Total lumen output:

4850 lm

Peak candela output:

24438 cd

Light quality:

CRI: 97,5

Color temperature:

6134 K

**PRODUCT NAME:**

**ECLFRCTPM**

**MEASURAMENT CONDITIONS:**

Beam angle:

Med Zoom

Target:

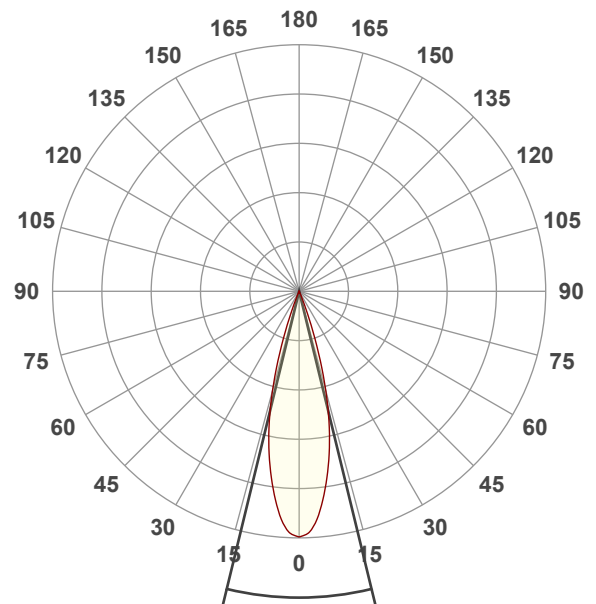
6000K

Operator:

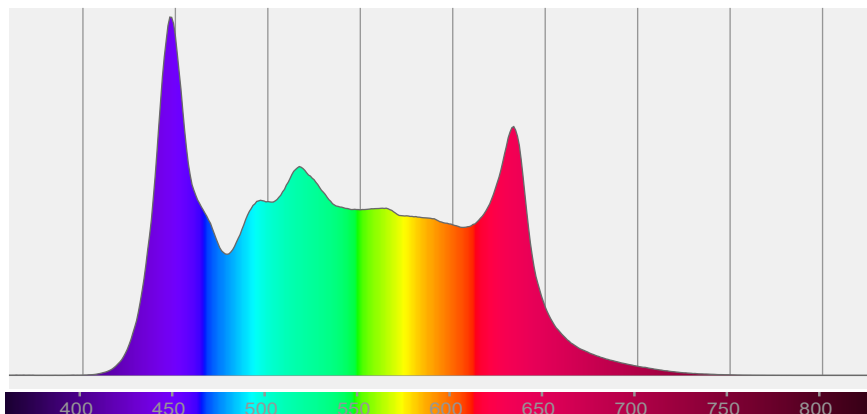
Salvatore Giglio

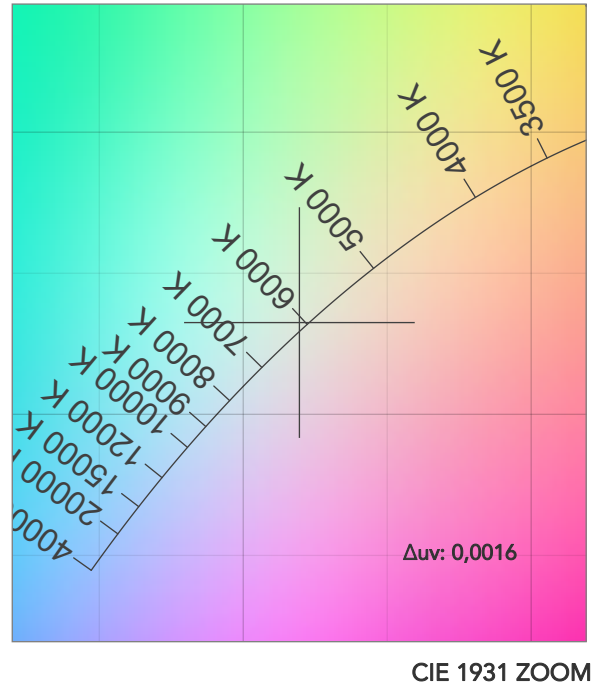
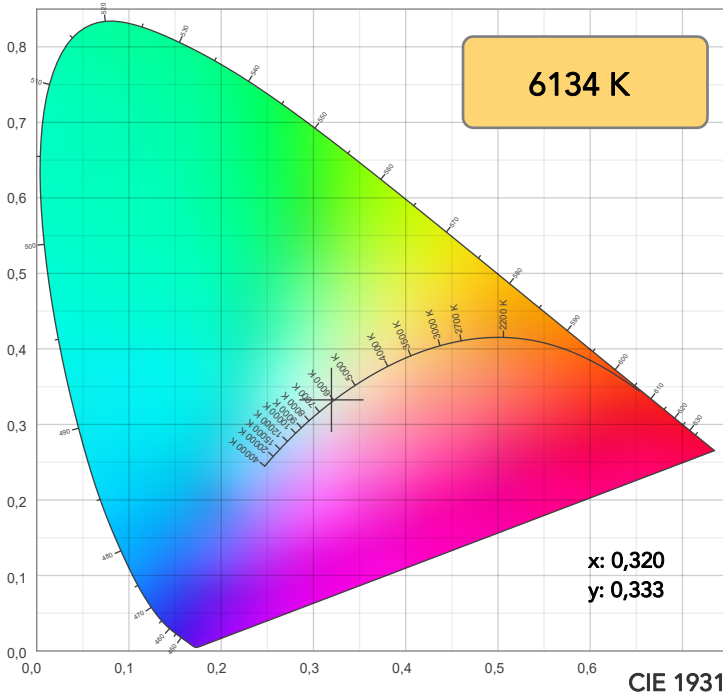
Date and time:

18/09/2023 12:56:40

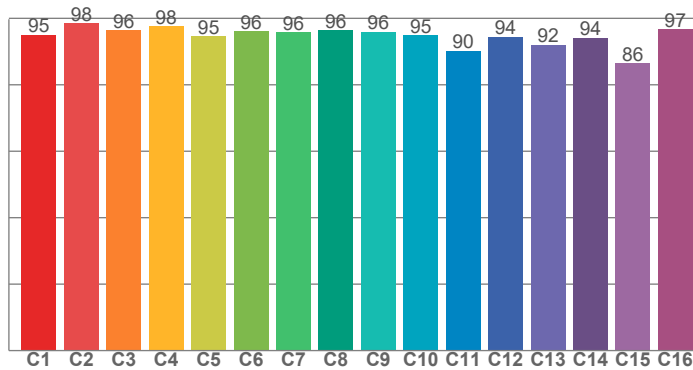


Spectra

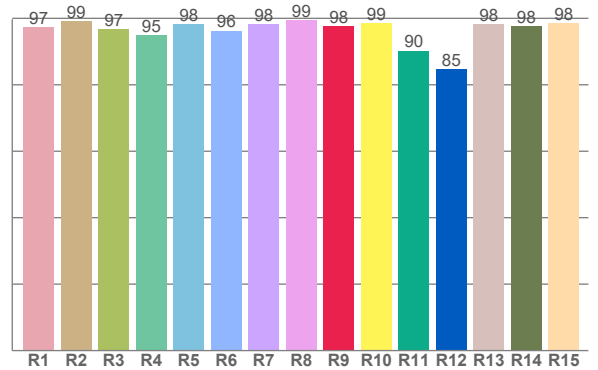




TM30: 94,6



CRI: 97,5 (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
97,4	99,1	96,7	94,8	98,3	96,3	98,2	99,4	97,6	98,6	90,2	84,6	98,2	97,6	98,5

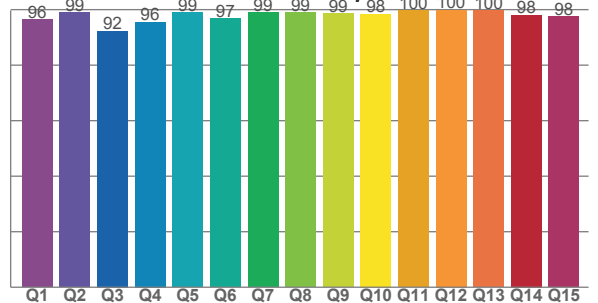
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,1	98,4	96,3	97,6	94,6	96,0	95,8	96,4	96,0	94,9	90,1	94,4	92,0	94,2	86,5	96,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,4	98,9	92,3	95,6	98,9	96,8	98,9	98,9	98,6	98,4	99,7	99,8	99,7	98,1	97,5

CQS: 97,1



COLOR PARAMETERS

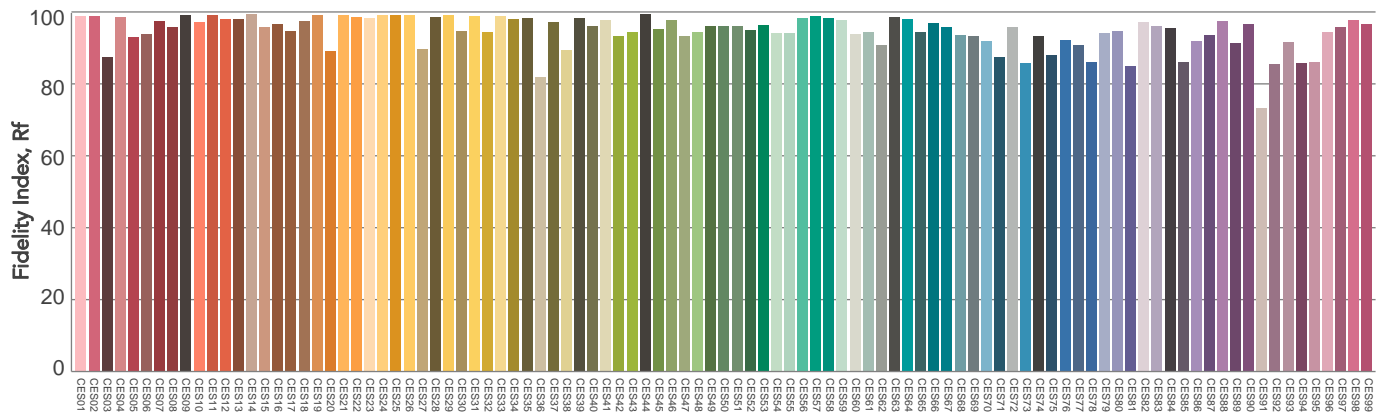
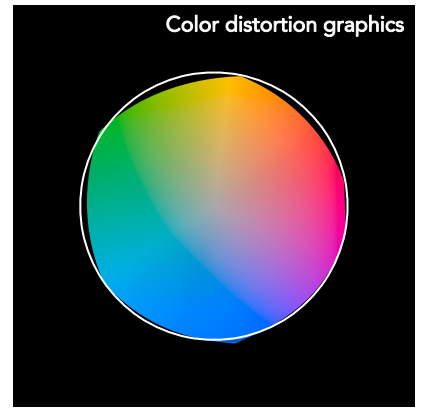
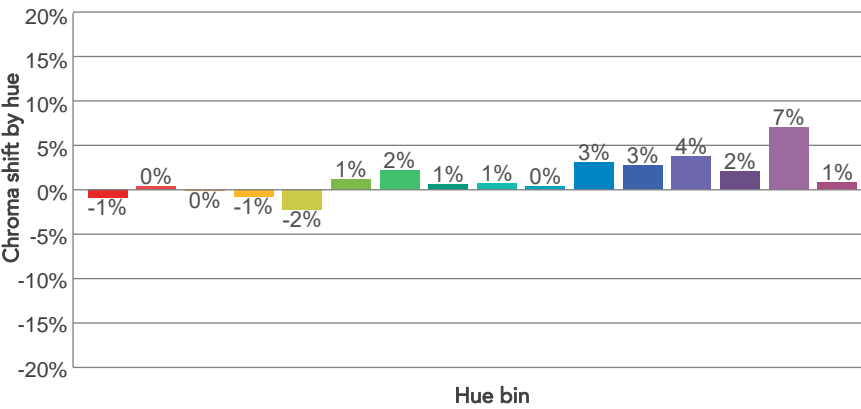
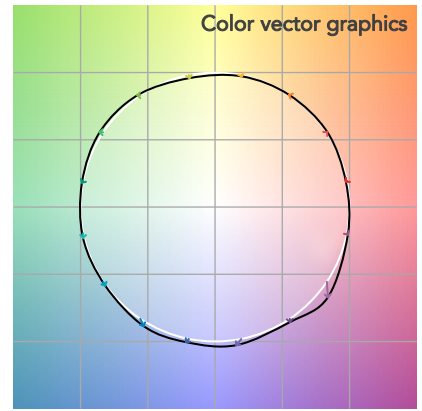
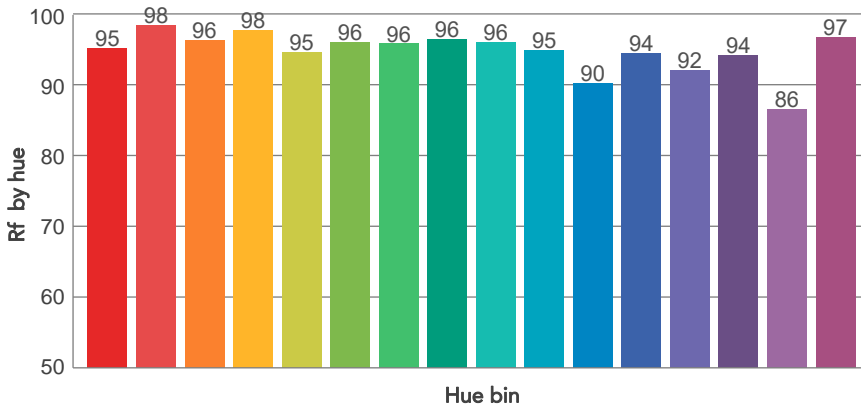
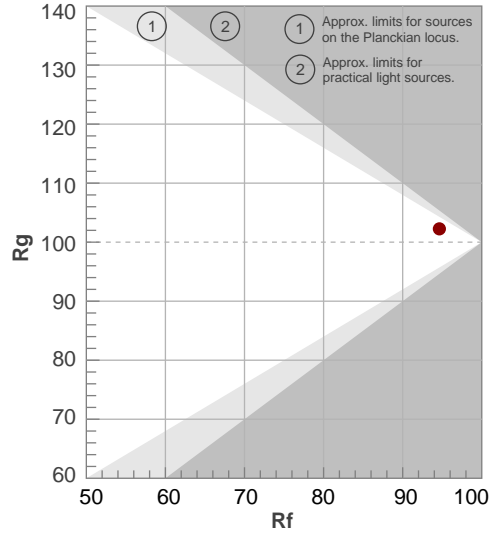
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
6134 K	97,5	97,6	94,6	102,3	97,1	94	0,320	0,333	0,0016

# TM30 DETAILS

**Rf 94,6**  
Fidelity index Rf

**Rg 102,3**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	98	0%	0%
3	96	0%	0%
4	98	-1%	-1%
5	95	-2%	0%
6	96	1%	2%
7	96	2%	1%
8	96	1%	2%
9	96	1%	3%
10	95	0%	3%
11	90	3%	5%
12	94	3%	-1%
13	92	4%	-4%
14	94	2%	-1%
15	86	7%	-9%
16	97	1%	-1%

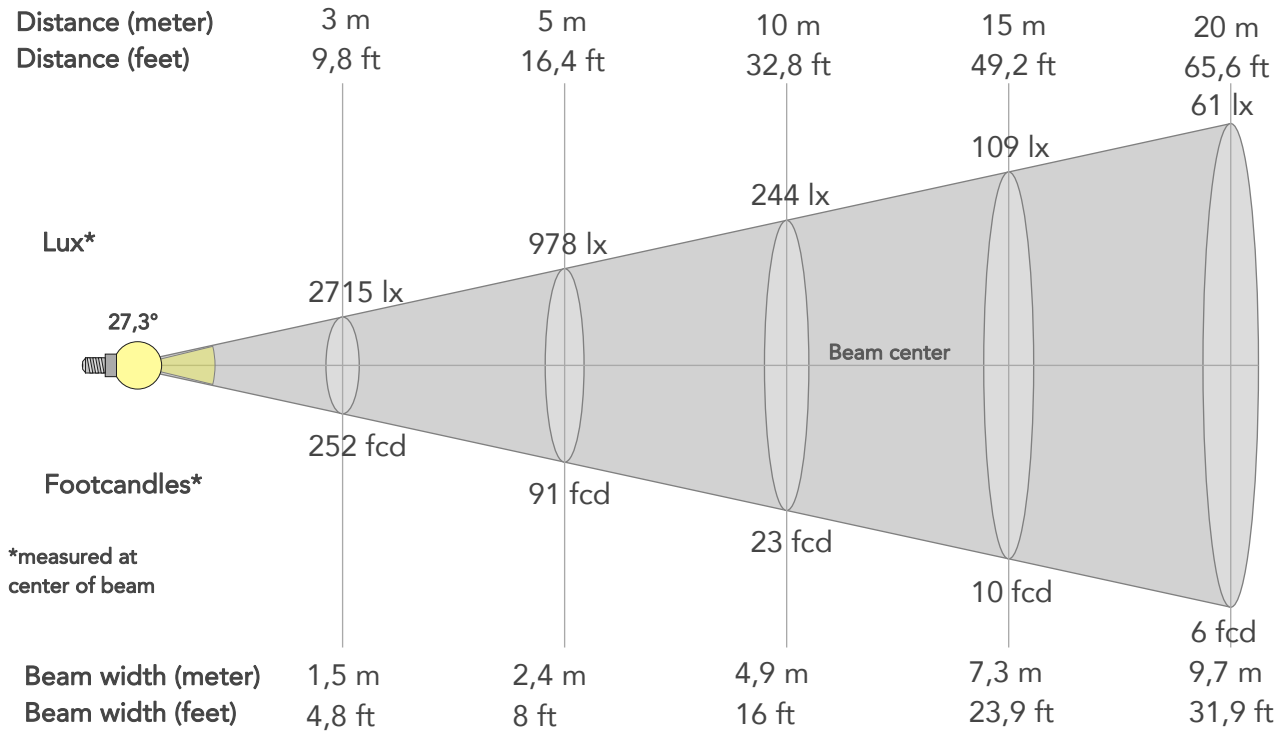


Color Evaluation Sample

# BEAM DETAILS



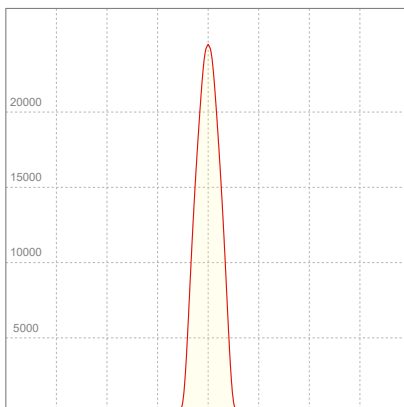
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,3°	40,8°	46,2°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	24438lx	6110lx	2715lx	1527lx	978lx	434lx	244lx	109lx	61lx	39lx	27lx	15lx	10lx
Footcand.	2270fcd	568fcd	252fcd	142fcd	91fcd	40fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	1fcd
Beam wid.	0,5m	1m	1,5m	1,9m	2,4m	3,6m	4,9m	7,3m	9,7m	12,2m	14,6m	19,5m	24,3m
Beam wid.	1,6ft	3,2ft	4,8ft	6,4ft	8ft	12ft	16ft	23,9ft	31,9ft	39,9ft	47,9ft	63,8ft	79,8ft

## LINEAR DISTRIBUTION DIAGRAM

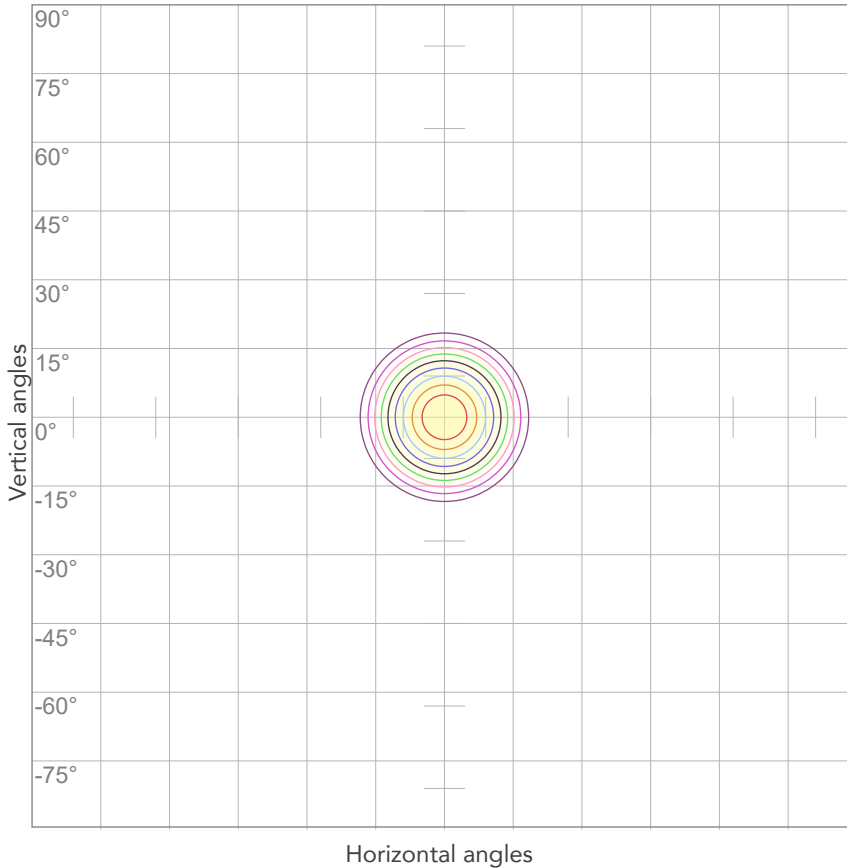


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,861A	190,7W	25lm/W



## ISO CANDELA DIAGRAM



10%	2444 cd
20%	4888 cd
30%	7332 cd
40%	9775 cd
50%	12219 cd
60%	14663 cd
70%	17107 cd
80%	19551 cd

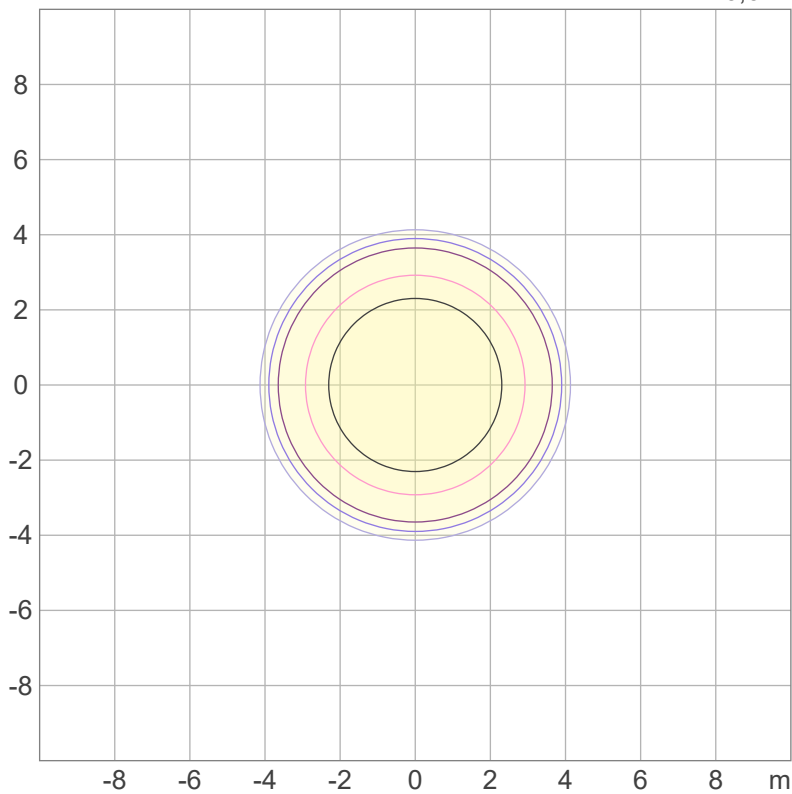
Conditions:

Number of c-planes: 2

Candela at center: 24438 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	7,33 lx
5%	12,2 lx
10%	24,4 lx
30%	73,3 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:

2582 lm

Peak candela output:

91966 cd

Light quality:

CRI: 97,5

Color temperature:

6179 K

PRODUCT NAME:

ECLFRCTPM

MEASURAMENT CONDITIONS:

Beam angle:

Min Zoom

Target:

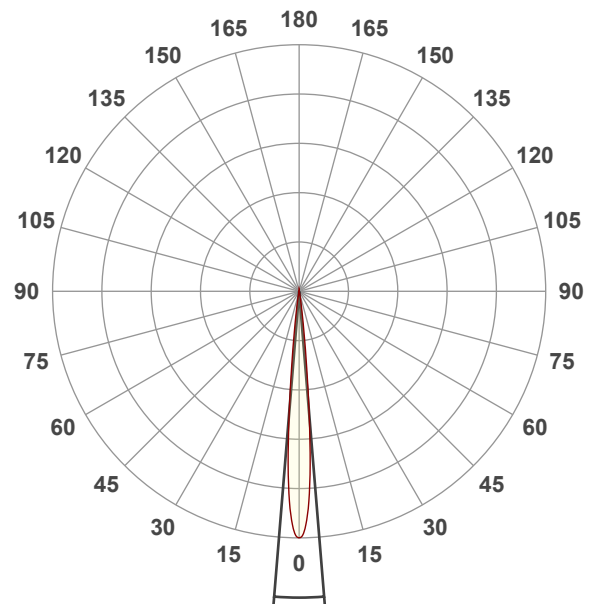
6000K

Operator:

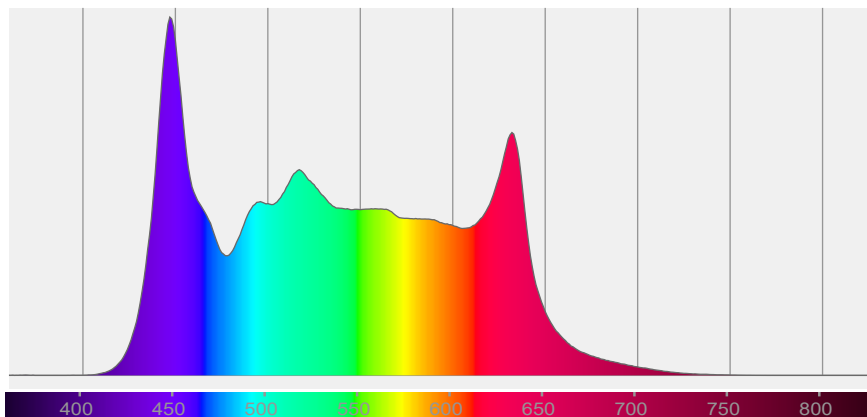
Salvatore Giglio

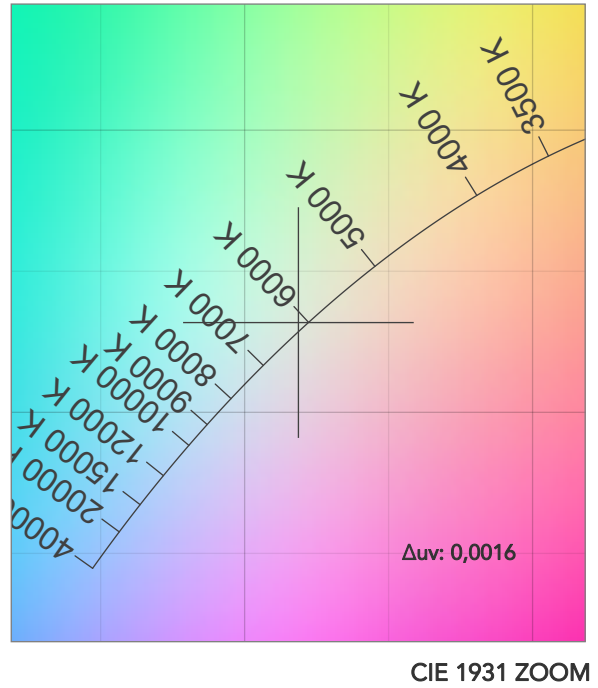
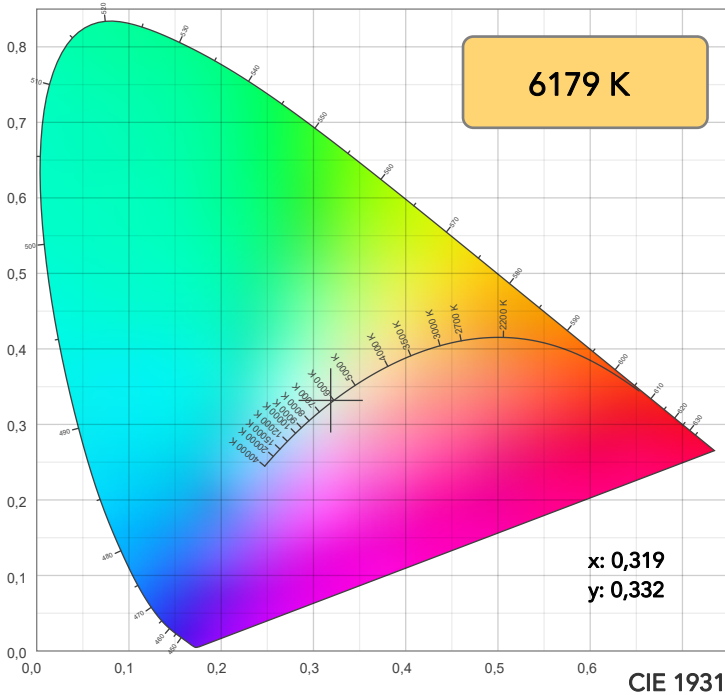
Date and time:

18/09/2023 13:18:22

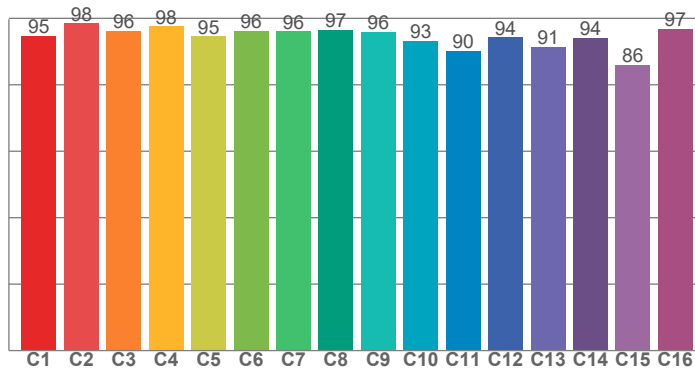


Spectra

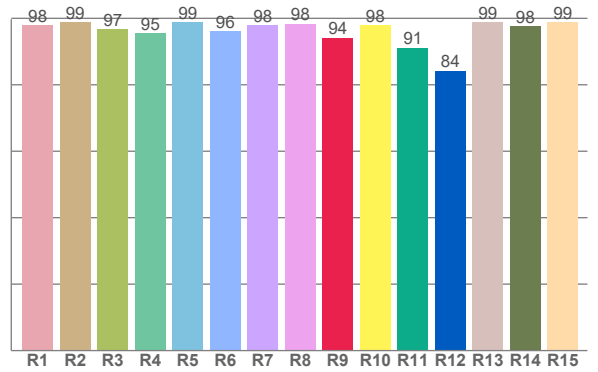




TM30: 94,5



CRI: 97,5 (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
97,9	98,9	96,8	95,5	98,9	96,2	97,9	98,4	94,1	97,9	91,2	84,2	98,8	97,7	98,8

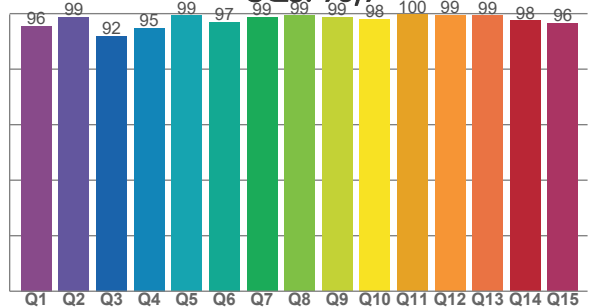
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	98,4	96,2	97,5	94,5	96,1	96,0	96,5	95,9	93,1	90,2	94,2	91,5	94,1	85,9	96,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,6	98,8	91,9	94,9	99,3	97,0	98,7	99,2	98,7	98,1	99,6	99,5	99,3	97,6	96,5

CQS: 96,9



COLOR PARAMETERS

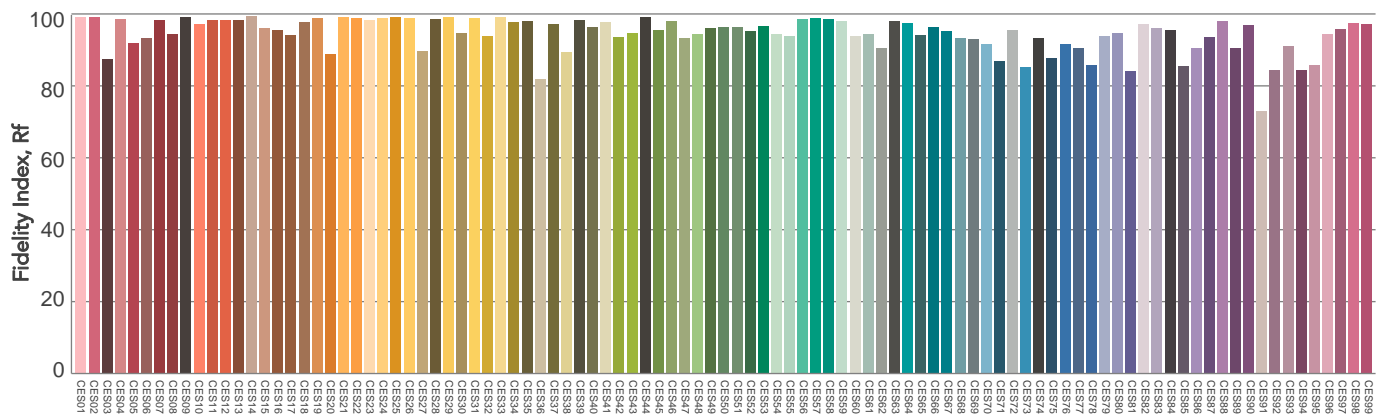
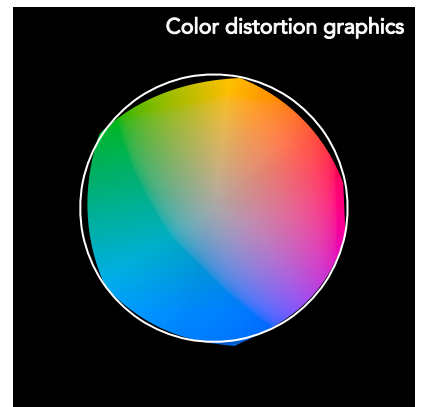
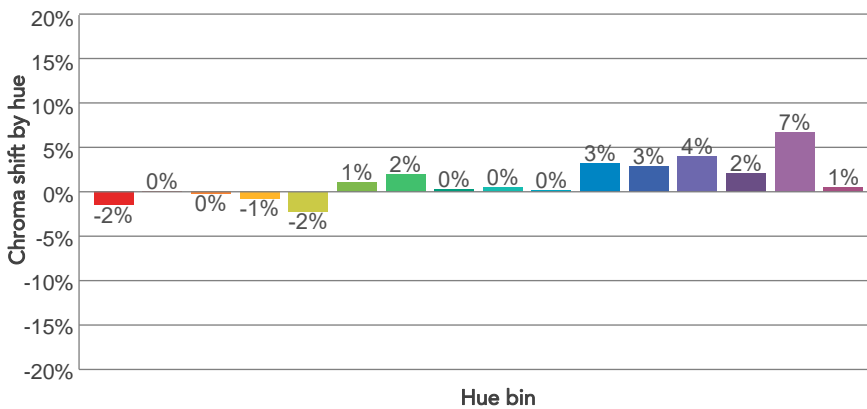
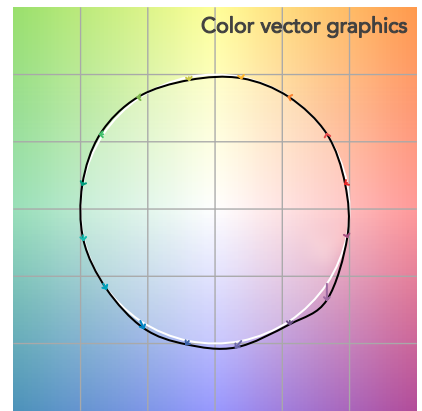
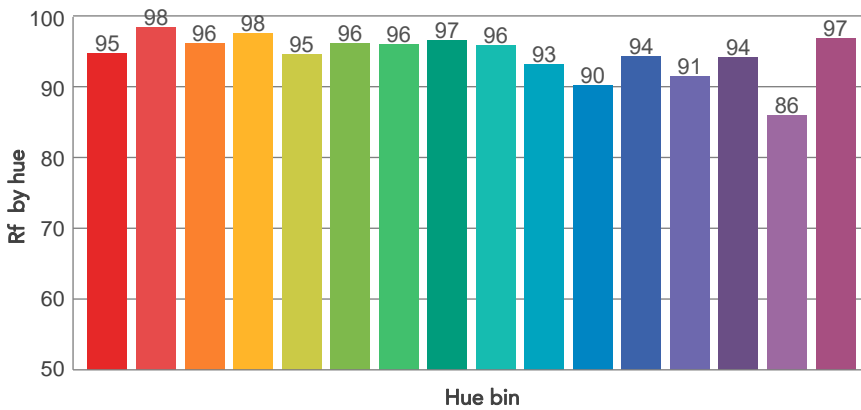
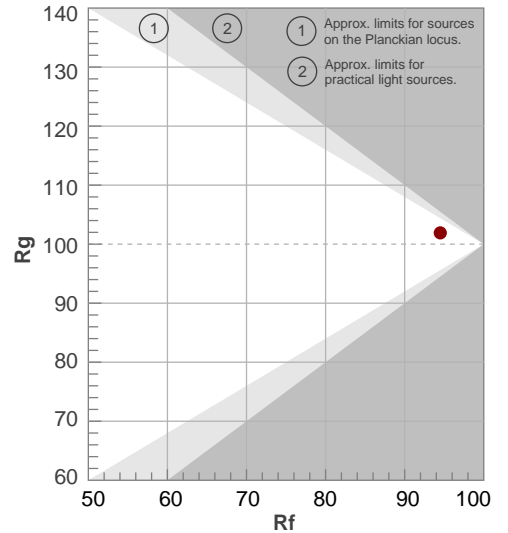
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6179 K	97,5	94,1	94,5	101,9	96,9	94	0,319	0,332	0,0016

# TM30 DETAILS

**Rf 94,5**  
Fidelity index Rf

**Rg 101,9**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	-1%
2	98	0%	0%
3	96	0%	1%
4	98	-1%	0%
5	95	-2%	0%
6	96	1%	2%
7	96	2%	1%
8	97	0%	2%
9	96	0%	3%
10	93	0%	4%
11	90	3%	5%
12	94	3%	-2%
13	91	4%	-5%
14	94	2%	-1%
15	86	7%	-10%
16	97	1%	-1%

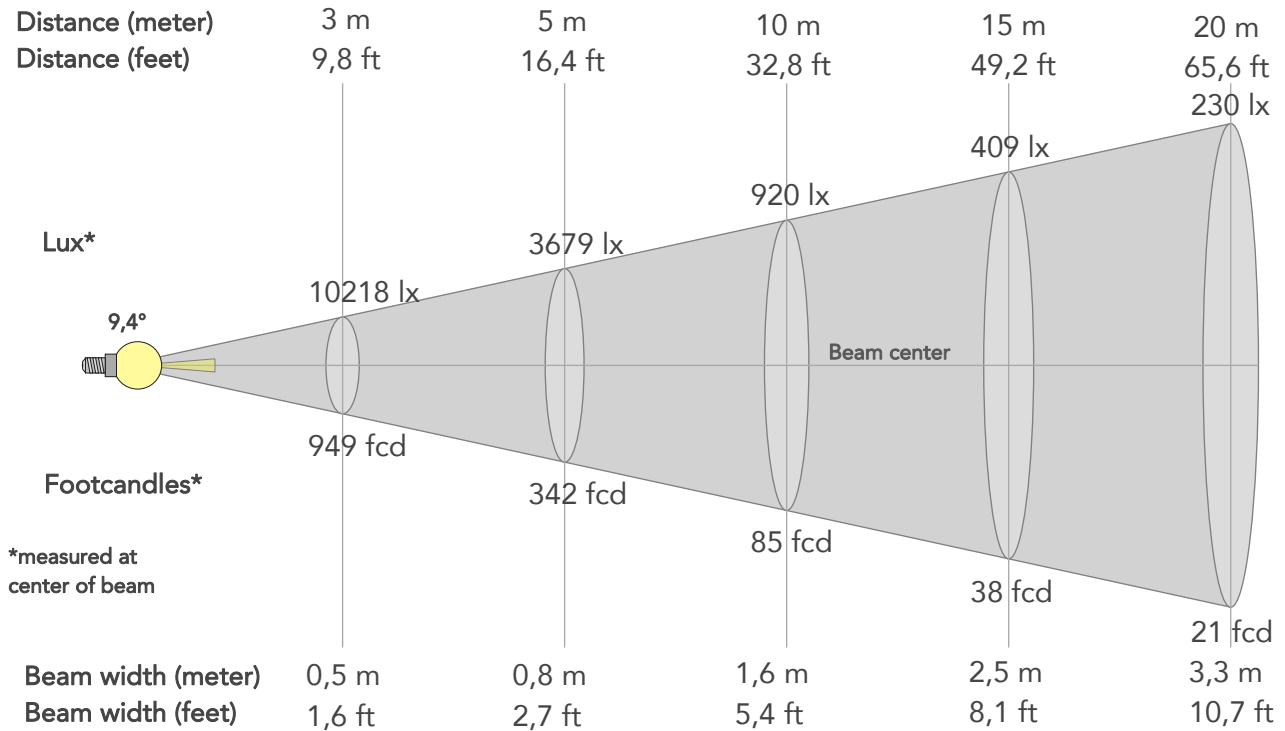


Color Evaluation Sample

# BEAM DETAILS



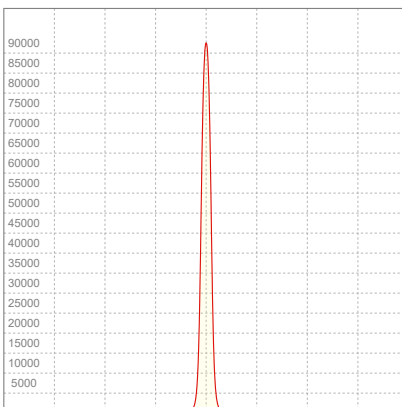
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9,4°	15,3°	20,5°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	91966lx	22992lx	10218lx	5748lx	3679lx	1635lx	920lx	409lx	230lx	147lx	102lx	57lx	37lx
Footcand.	8544fcd	2136fcd	949fcd	534fcd	342fcd	152fcd	85fcd	38fcd	21fcd	14fcd	9fcd	5fcd	3fcd
Beam wid.	0,2m	0,3m	0,5m	0,7m	0,8m	1,2m	1,6m	2,5m	3,3m	4,1m	4,9m	6,5m	8,2m
Beam wid.	0,5ft	1,1ft	1,6ft	2,1ft	2,7ft	4ft	5,4ft	8,1ft	10,7ft	13,4ft	16,1ft	21,5ft	26,8ft

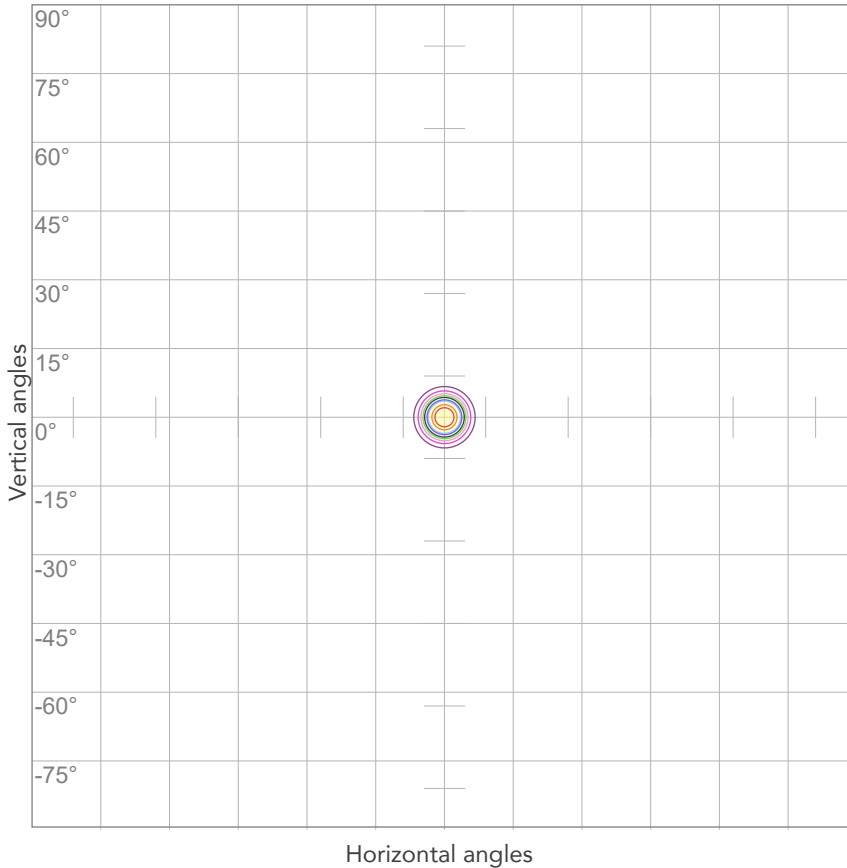
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	0,853A	188,6W	14lm/W

## ISO CANDELA DIAGRAM



10%	9197 cd
20%	18393 cd
30%	27590 cd
40%	36786 cd
50%	45983 cd
60%	55180 cd
70%	64376 cd
80%	73573 cd

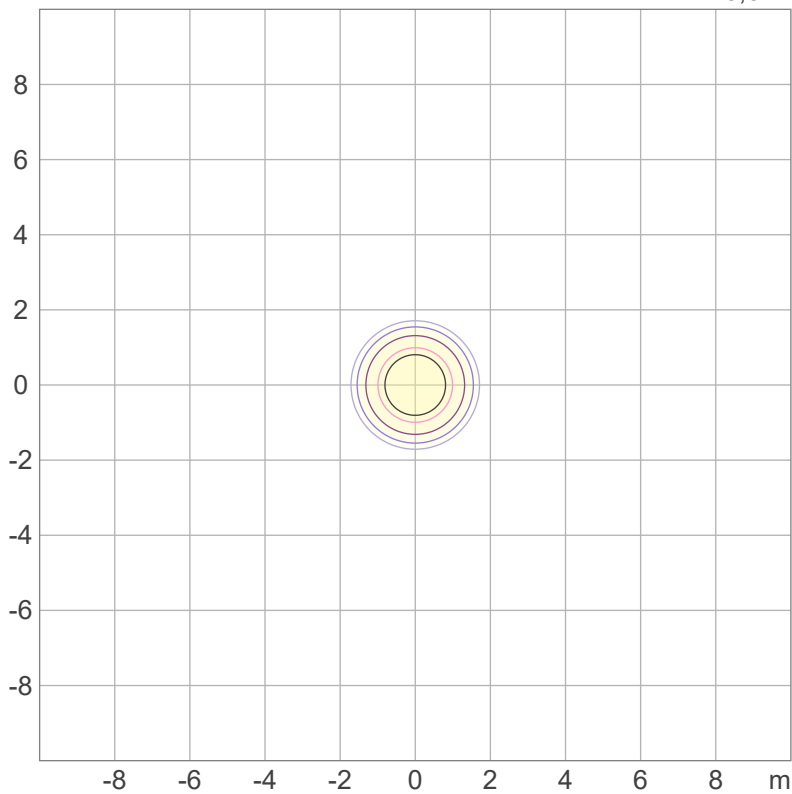
Conditions:

Number of c-planes: 2

Candela at center: 91966 cd

## ISO LUX DIAGRAM

MH: 10,0 m



Mounting height: 10 meters (33 feet)

3%	27,6 lx
5%	46,0 lx
10%	92,0 lx
30%	276 lx
50%	460 lx

Conditions:

Number of c-planes: 2

Lux at center: 920 lx

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