

Photometric Test Report



EclDisplay XBFC

40W RGB+Lime LED Spotlight with wired
control, with

PROFILE LENS 8°

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TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 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:

548 lm

Peak candela output:

53743 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

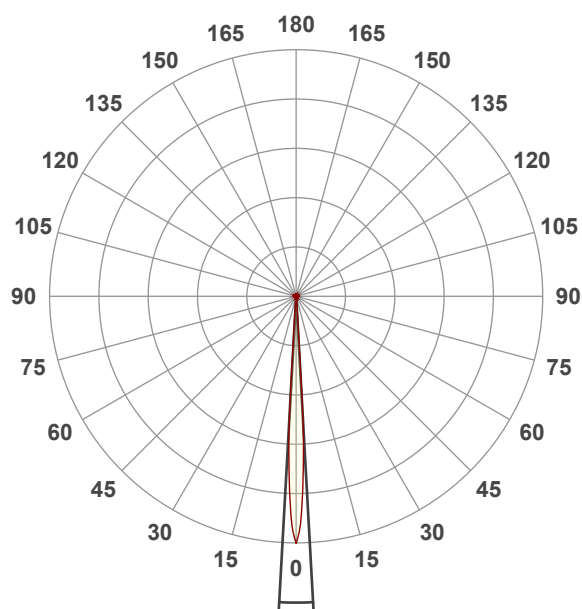
Full On

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:01:33

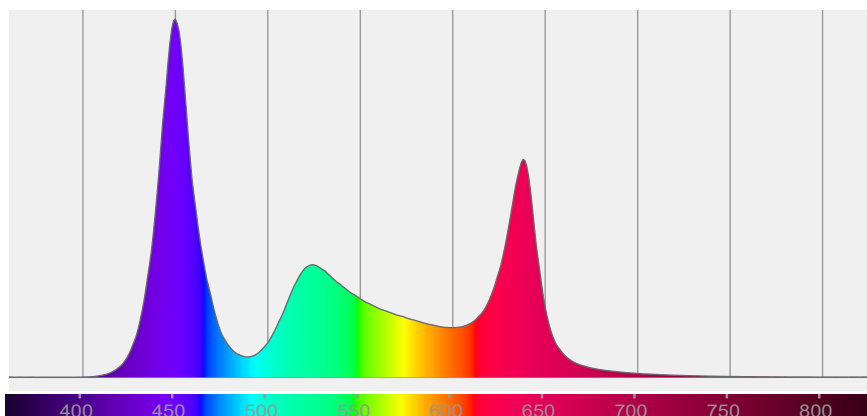


Beam angle 50%: 6,3°

Field angle 10%: 8,3°

Cut off angle 2.5%: 9,8°

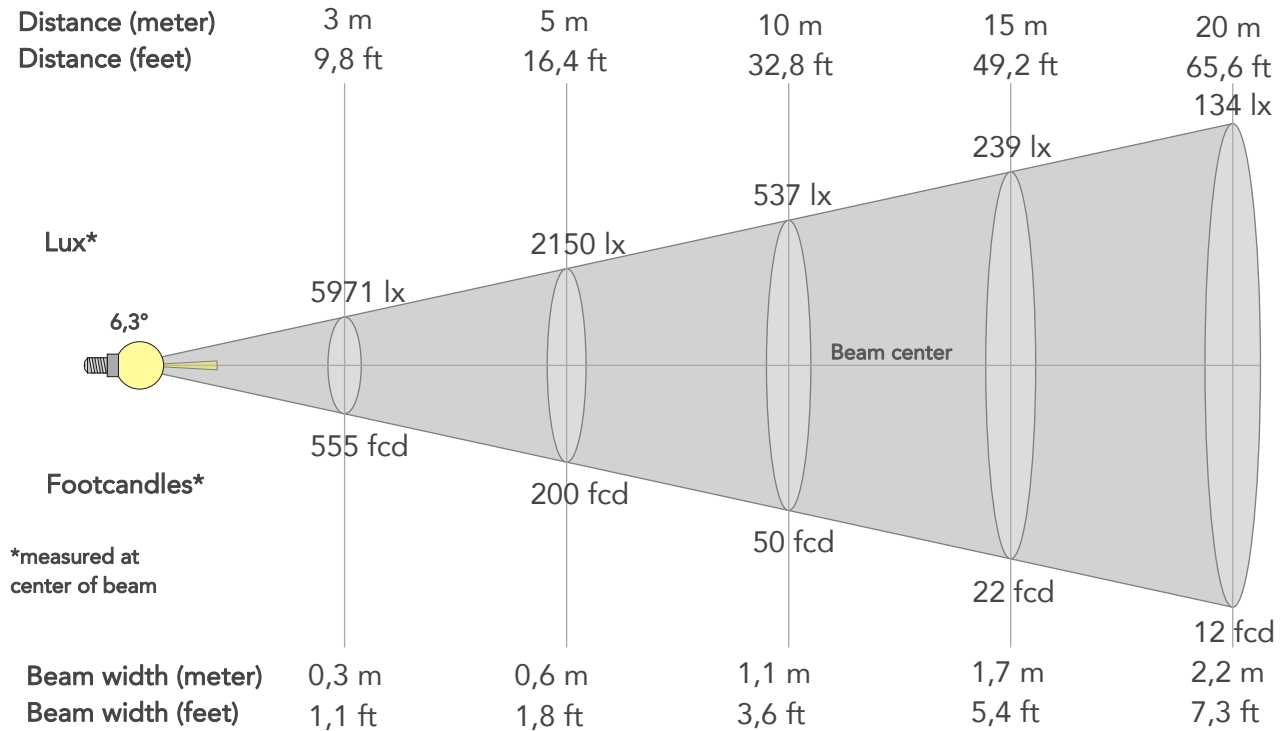
Spectra



BEAM DETAILS



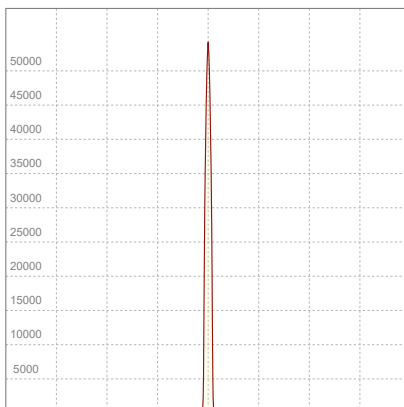
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,3°	9,8°	94,7%	93,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	53743lx	13436lx	5971lx	3359lx	2150lx	955lx	537lx	239lx	134lx	86lx	60lx	34lx	21lx
Footcand.	4993fcd	1248fcd	555fcd	312fcd	200fcd	89fcd	50fcd	22fcd	12fcd	8fcd	6fcd	3fcd	2fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,5ft	1,8ft	2,7ft	3,6ft	5,4ft	7,3ft	9,1ft	10,9ft	14,5ft	18,2ft

LINEAR DISTRIBUTION DIAGRAM

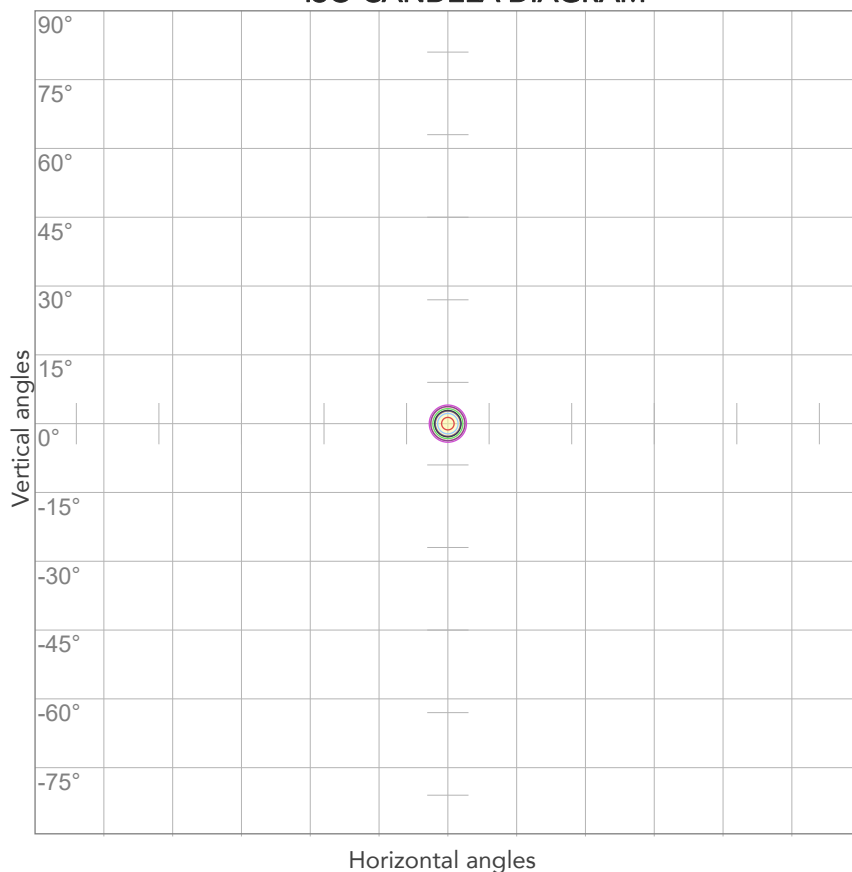


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,216A	45,7W	0,93	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



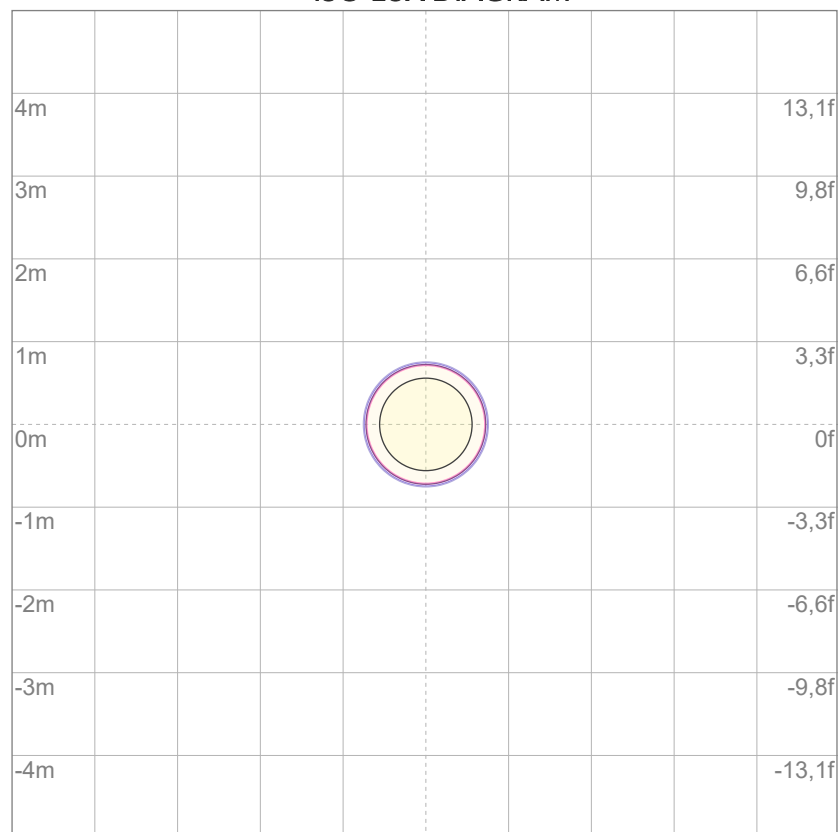
10%	5374 cd
20%	10749 cd
30%	16123 cd
40%	21497 cd
50%	26872 cd
60%	32246 cd
70%	37620 cd
80%	42995 cd

Conditions:

Number of c-planes: 2

Candela at center: 53743 cd

ISO LUX DIAGRAM



3%	16,1 lx
5%	26,9 lx
10%	53,7 lx
30%	161 lx
50%	269 lx

Conditions:

Number of c-planes: 2

Lux at center: 537 lx

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



Total lumen output:

124 lm

Peak candela output:

8185 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

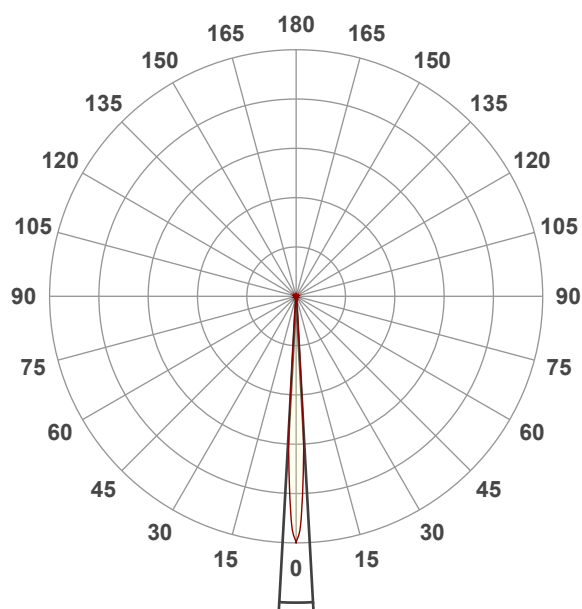
Red

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:06:26

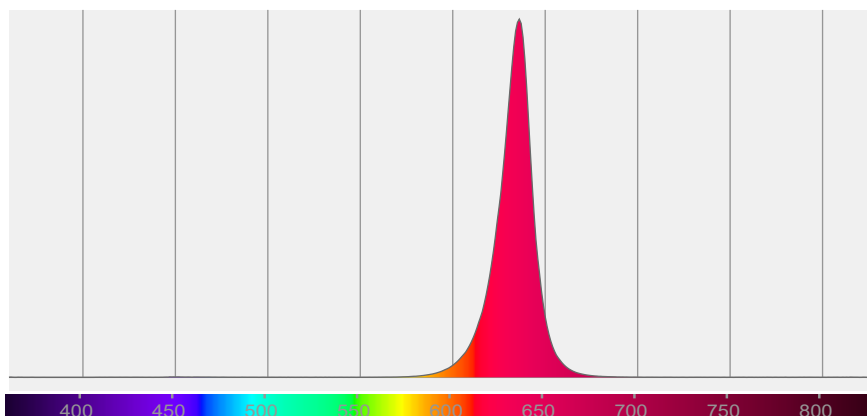


Beam angle 50%: 6,3°

Field angle 10%: 8,1°

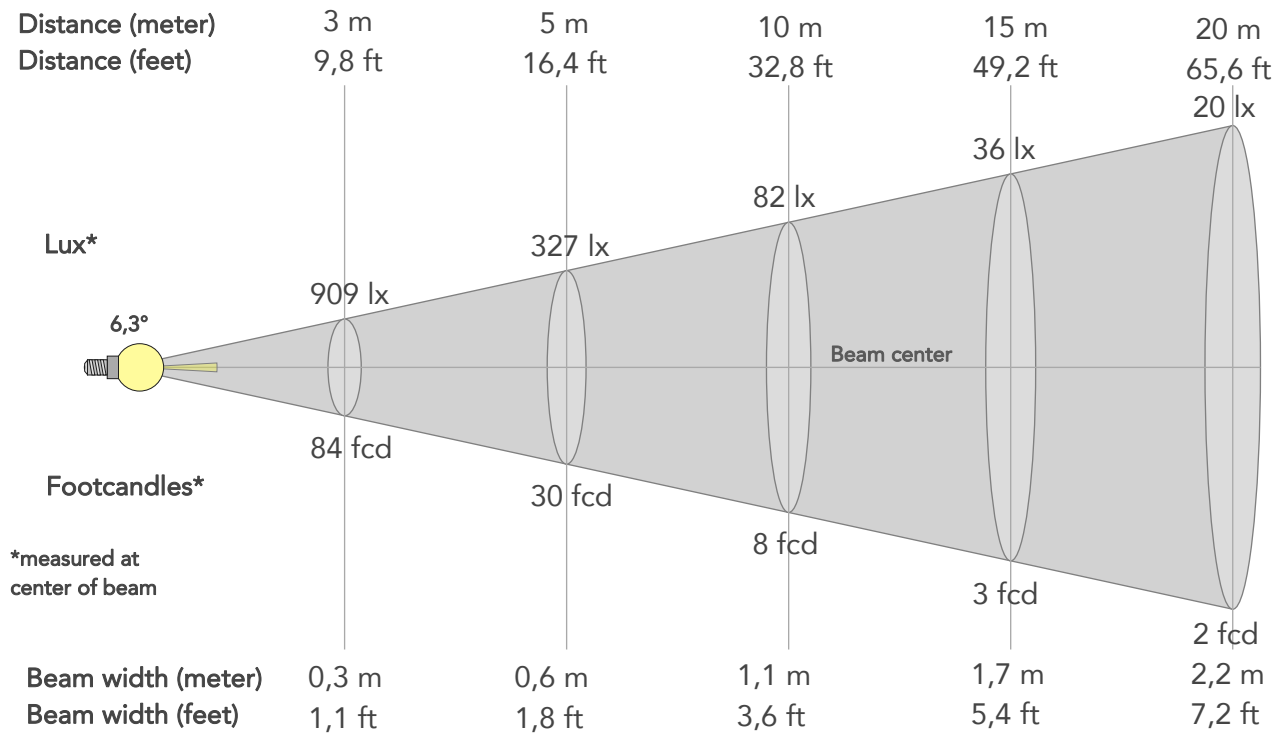
Cut off angle 2.5%: 9,6°

Spectra



BEAM DETAILS

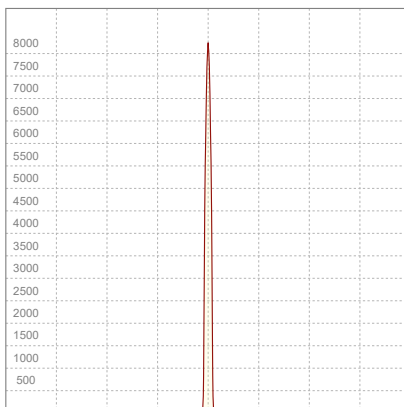
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,1°	9,6°	74,4%	68,8%



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	8185lx	2046lx	909lx	512lx	327lx	146lx	82lx	36lx	20lx	13lx	9lx	5lx	3lx
Footcand.	760fcd	190fcd	84fcd	48fcd	30fcd	14fcd	8fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,6ft	5,4ft	7,2ft	9ft	10,8ft	14,5ft	18,1ft

LINEAR DISTRIBUTION DIAGRAM

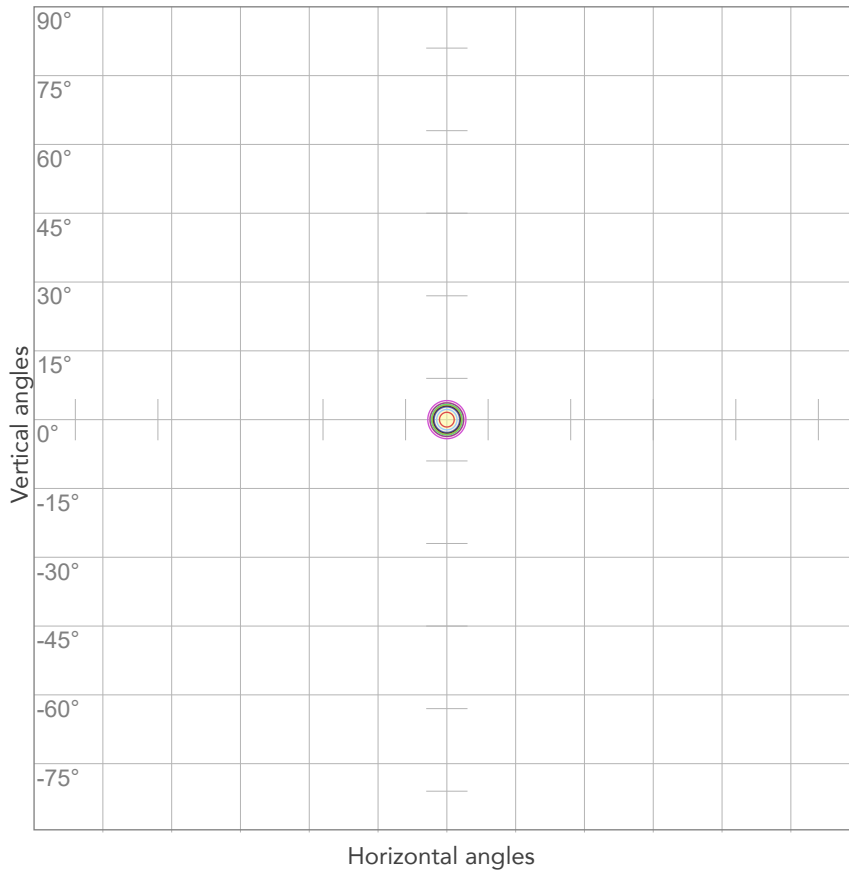


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,073A	9,1W	0,55	14lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



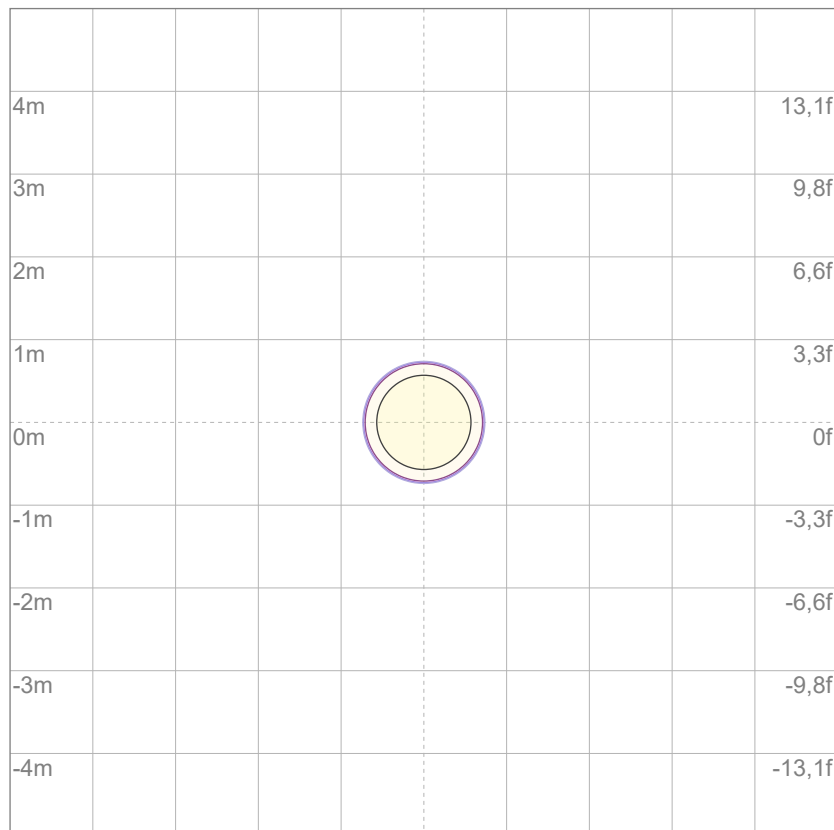
10%	818 cd
20%	1637 cd
30%	2455 cd
40%	3274 cd
50%	4092 cd
60%	4911 cd
70%	5729 cd
80%	6548 cd

Conditions:

Number of c-planes: 2

Candela at center: 8185 cd

ISO LUX DIAGRAM



3%	2,46 lx
5%	4,09 lx
10%	8,18 lx
30%	24,6 lx
50%	40,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 81,8 lx

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



Total lumen output:

130 lm

Peak candela output:

11812 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

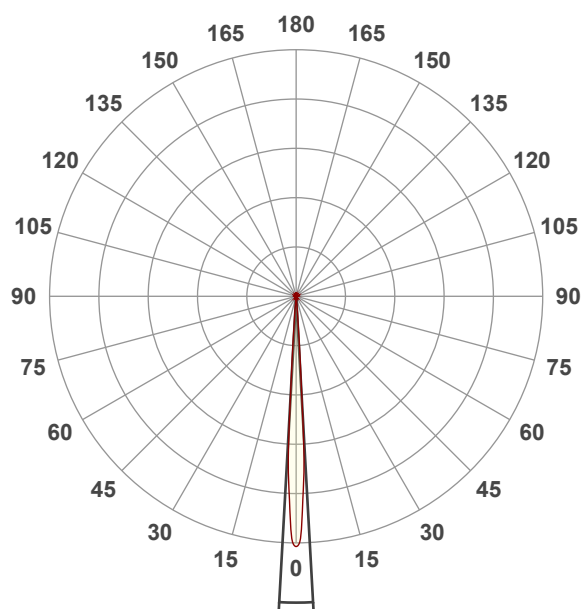
Green

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:09:01

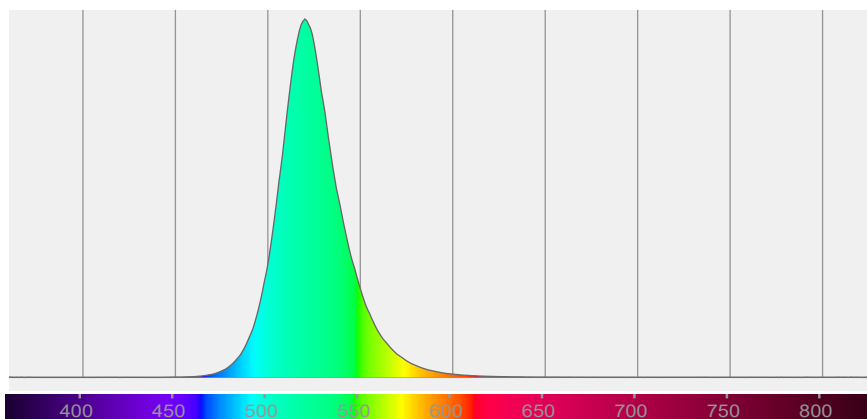


Beam angle 50%: 6,3°

Field angle 10%: 8,7°

Cut off angle 2.5%: 9,5°

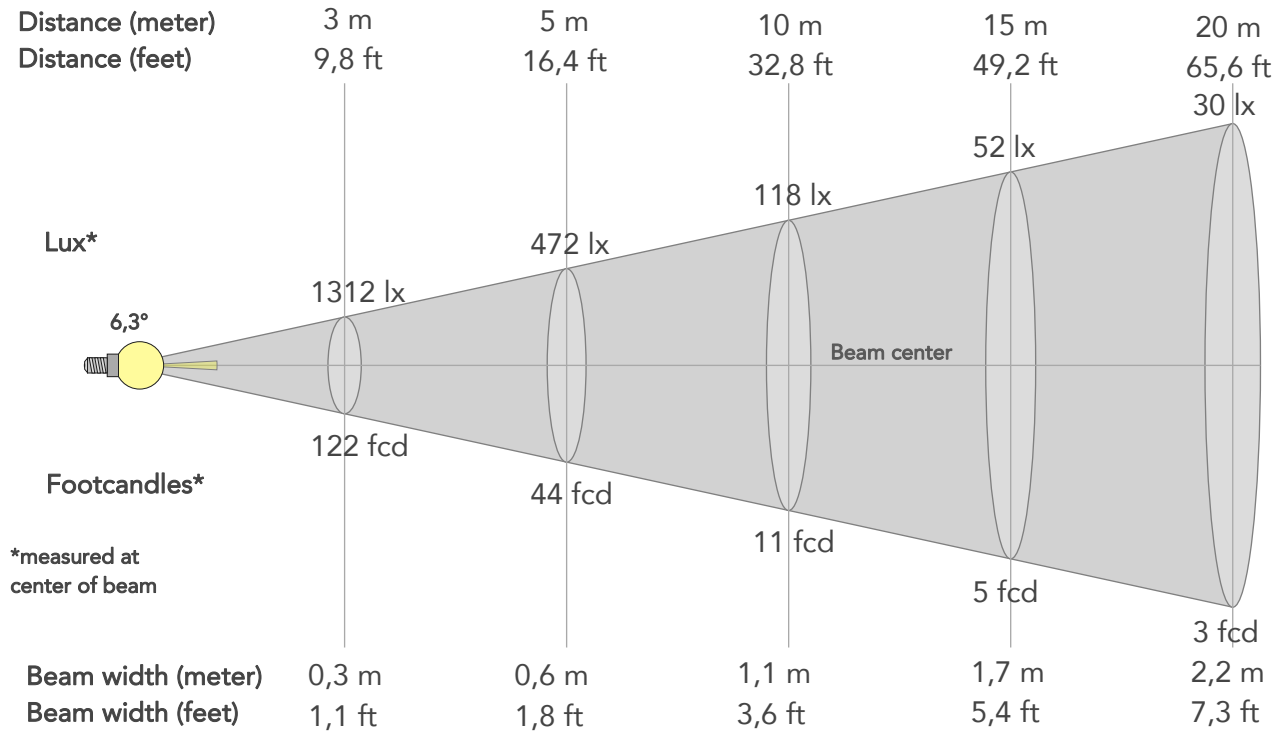
Spectra



BEAM DETAILS



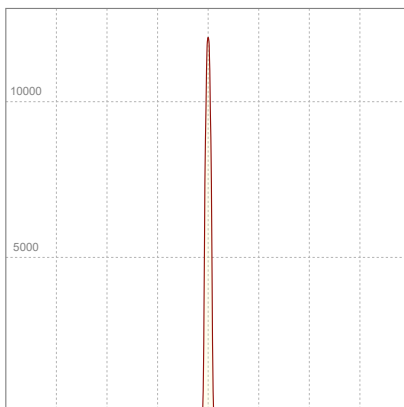
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,7°	9,5°	92,2%	90,5%



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	11812lx	2953lx	1312lx	738lx	472lx	210lx	118lx	52lx	30lx	19lx	13lx	7lx	5lx
Footcand.	1097fcd	274fcd	122fcd	69fcd	44fcd	20fcd	11fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,6ft	5,4ft	7,3ft	9,1ft	10,9ft	14,5ft	18,1ft

LINEAR DISTRIBUTION DIAGRAM

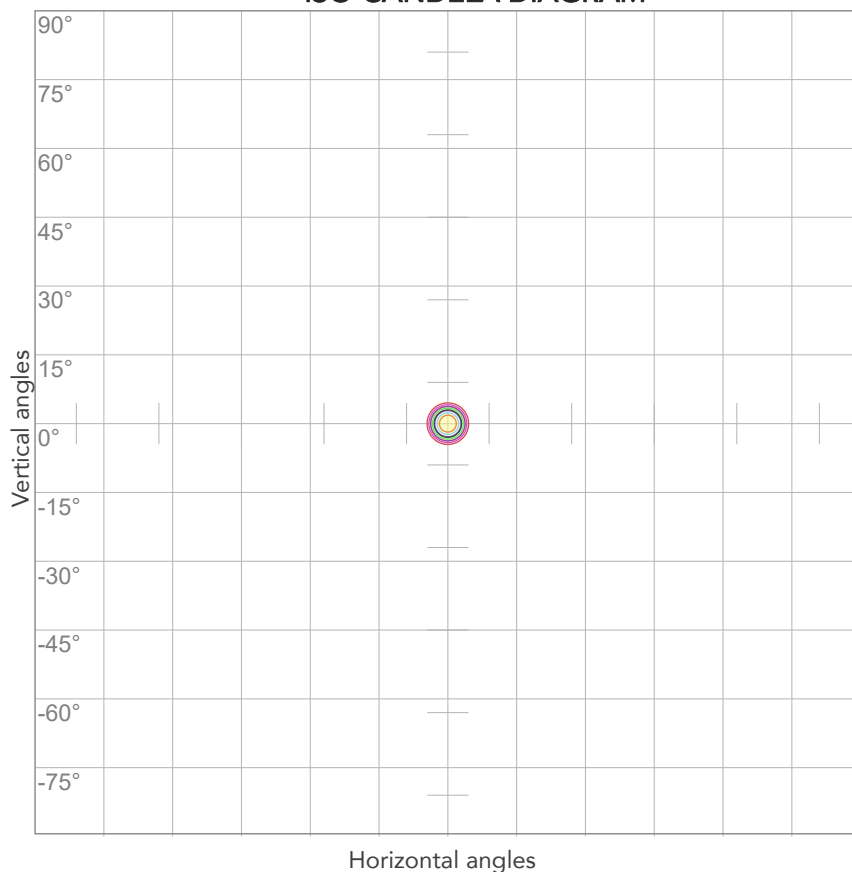


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,079A	10,3W	0,57	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



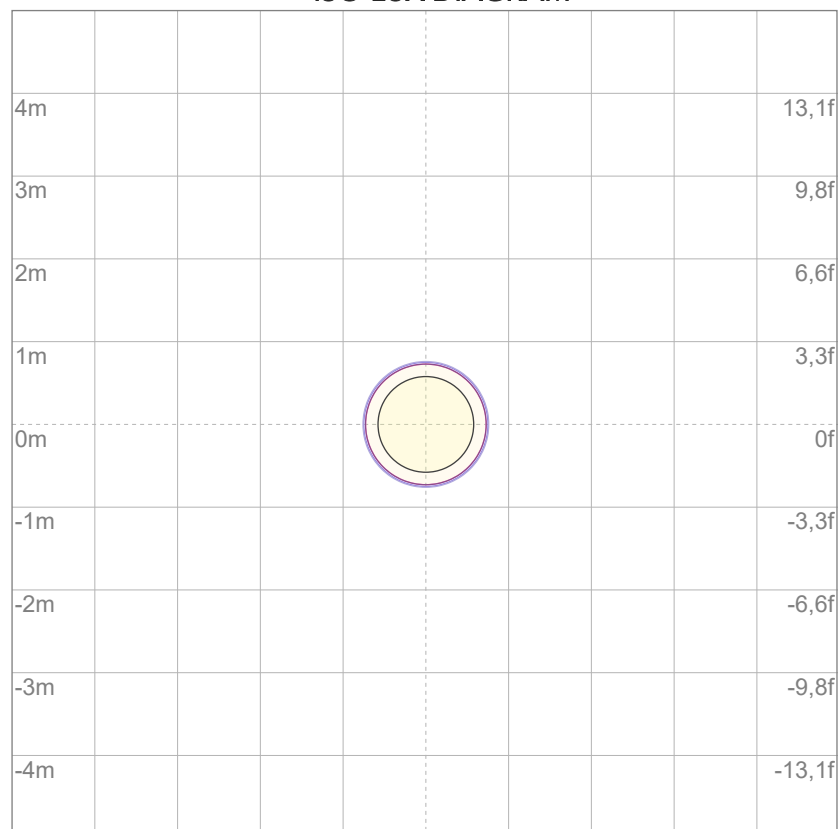
10%	1181 cd
20%	2362 cd
30%	3544 cd
40%	4725 cd
50%	5906 cd
60%	7087 cd
70%	8268 cd
80%	9450 cd

Conditions:

Number of c-planes: 2

Candela at center: 11812 cd

ISO LUX DIAGRAM



3%	3,54 lx
5%	5,91 lx
10%	11,8 lx
30%	35,4 lx
50%	59,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 118 lx

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



Total lumen output:

81,2 lm

Peak candela output:

3777 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

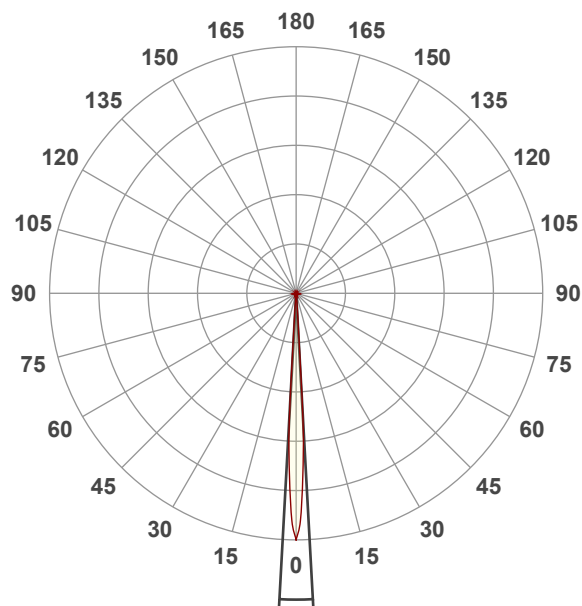
Blue

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:12:36

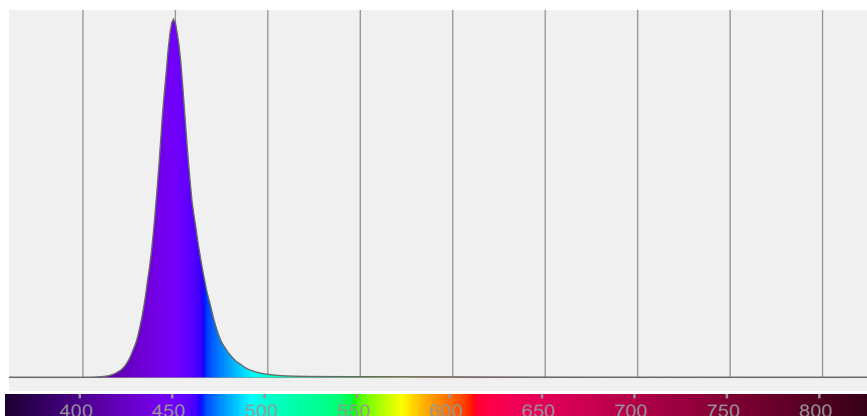


Beam angle 50%: 6,3°

Field angle 10%: 8,1°

Cut off angle 2.5%: 9,6°

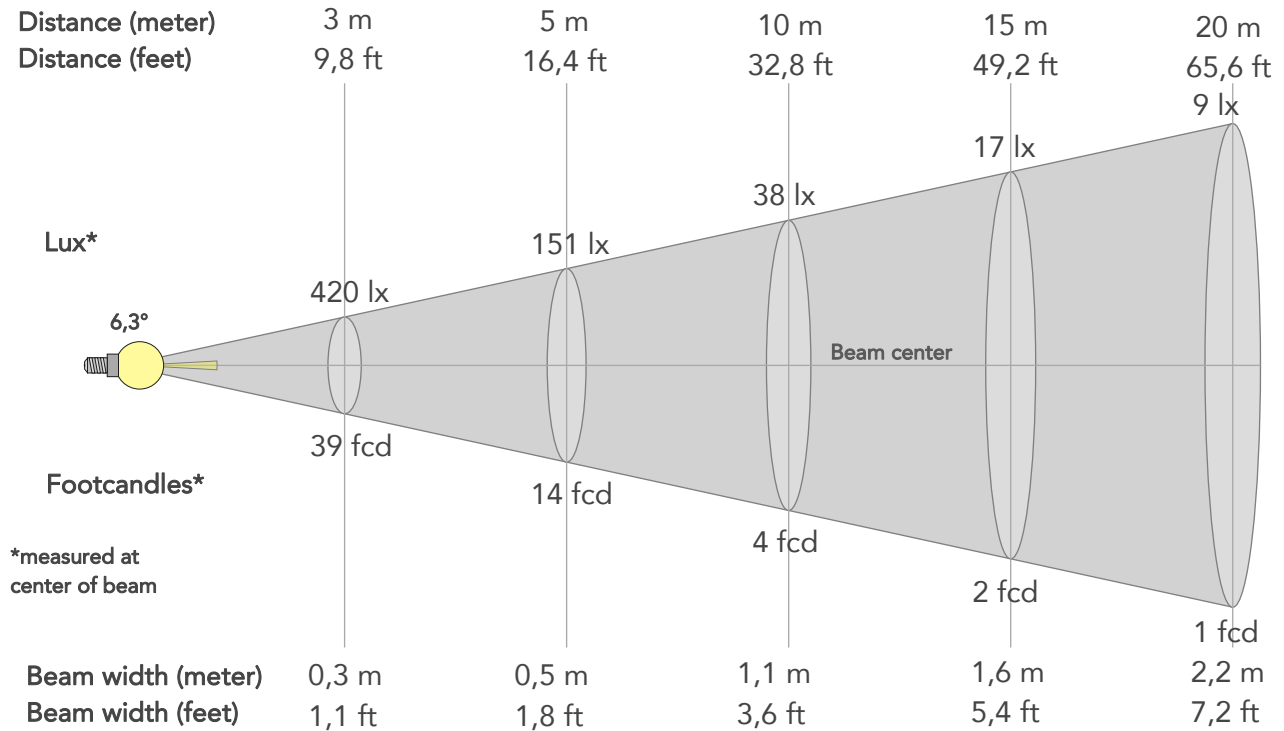
Spectra



BEAM DETAILS



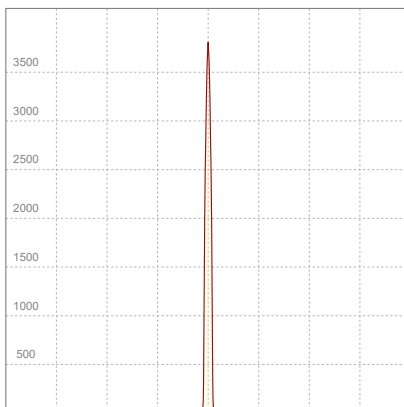
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,1°	9,6°	63,4%	54,5%



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	3777lx	944lx	420lx	236lx	151lx	67lx	38lx	17lx	9lx	6lx	4lx	2lx	2lx
Footcand.	351fcd	88fcd	39fcd	22fcd	14fcd	6fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1,1m	1,6m	2,2m	2,7m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,6ft	5,4ft	7,2ft	9ft	10,8ft	14,3ft	17,9ft

LINEAR DISTRIBUTION DIAGRAM

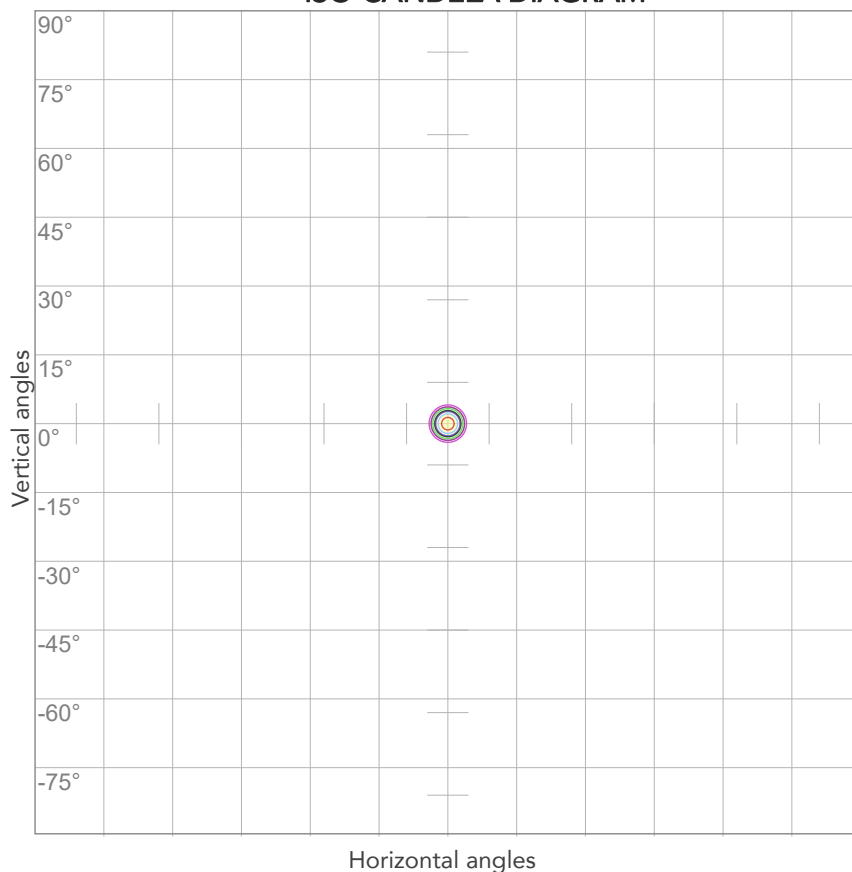


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,083A	11,3W	0,59	7lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



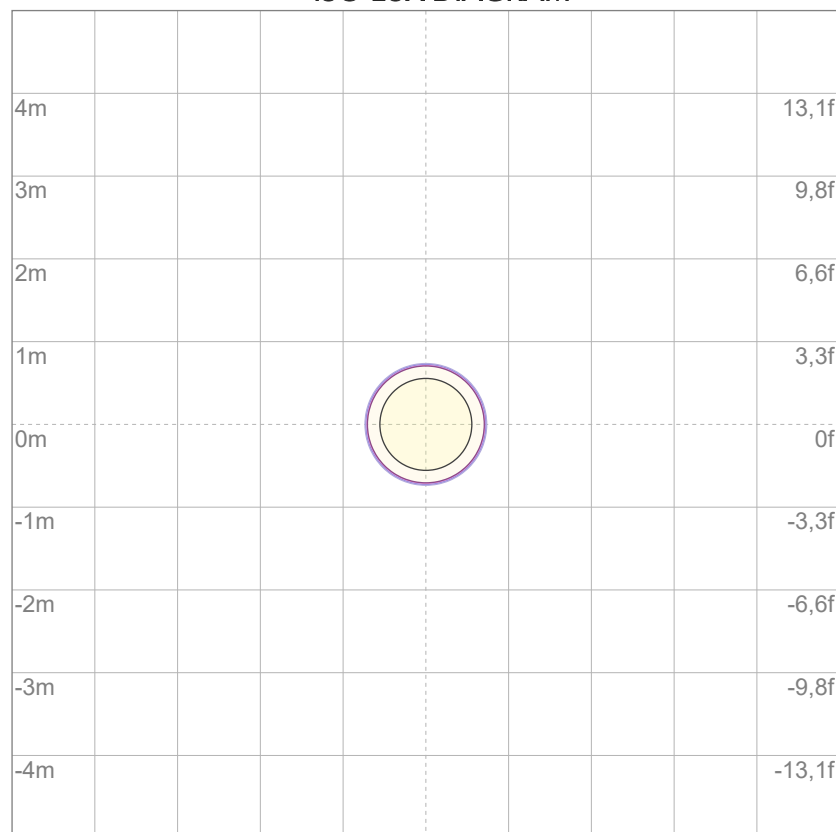
10%	378 cd
20%	755 cd
30%	1133 cd
40%	1511 cd
50%	1889 cd
60%	2266 cd
70%	2644 cd
80%	3022 cd

Conditions:

Number of c-planes: 2

Candela at center: 3777 cd

ISO LUX DIAGRAM



3%	1,13 lx
5%	1,89 lx
10%	3,78 lx
30%	11,3 lx
50%	18,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 37,8 lx

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



Total lumen output:

322 lm

Peak candela output:

31901 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

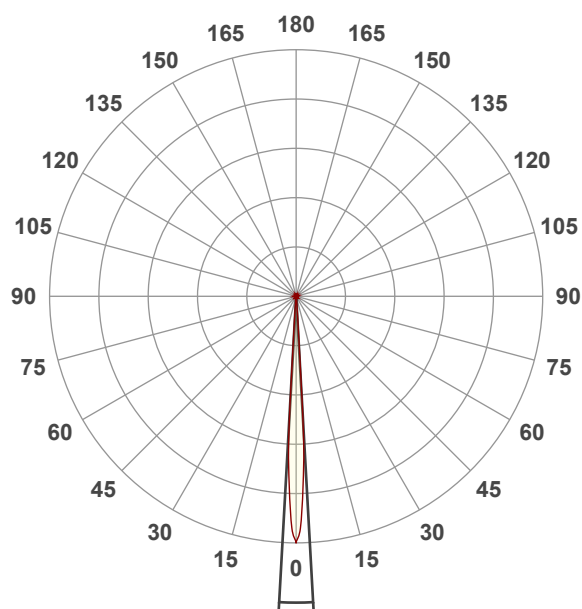
Lime

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:14:57

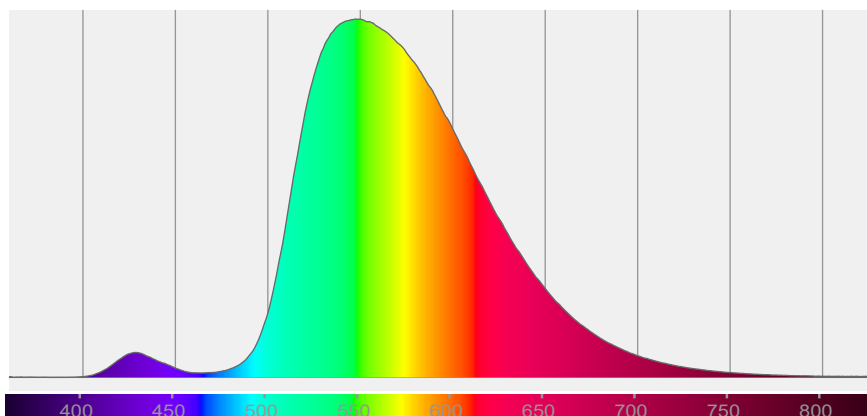


Beam angle 50%: 6,4°

Field angle 10%: 8,1°

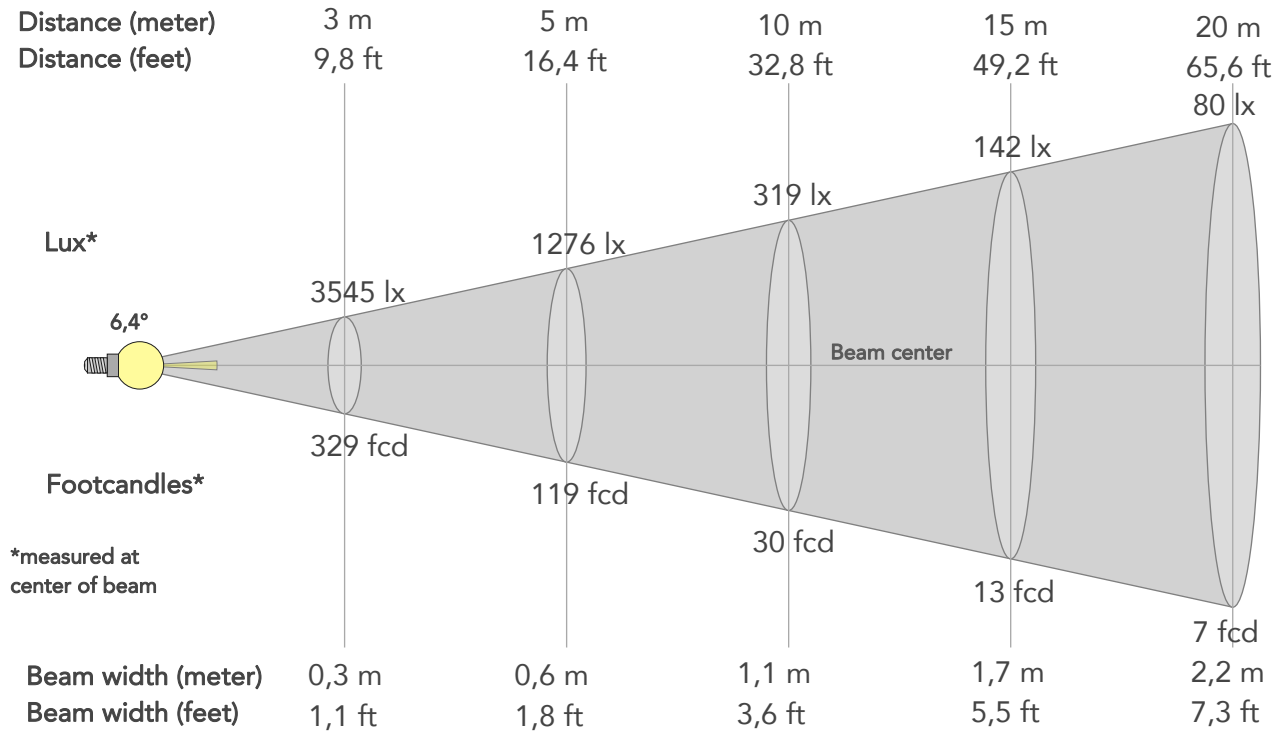
Cut off angle 2.5%: 9,6°

Spectra



BEAM DETAILS

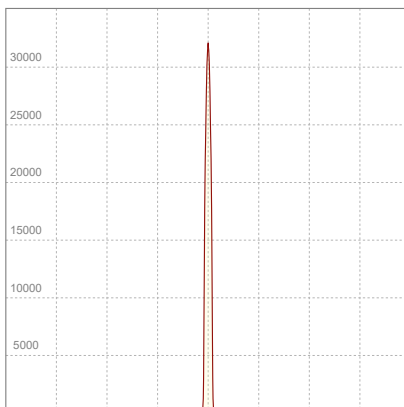
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,4°	8,1°	9,6°	94,7%	93,6%



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	31901lx	7975lx	3545lx	1994lx	1276lx	567lx	319lx	142lx	80lx	51lx	35lx	20lx	13lx
Footcand.	2964fcd	741fcd	329fcd	185fcd	119fcd	53fcd	30fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,6m
Beam wid.	0,4ft	0,7ft	1,1ft	1,5ft	1,8ft	2,7ft	3,6ft	5,5ft	7,3ft	9,1ft	10,9ft	14,6ft	18,2ft

LINEAR DISTRIBUTION DIAGRAM

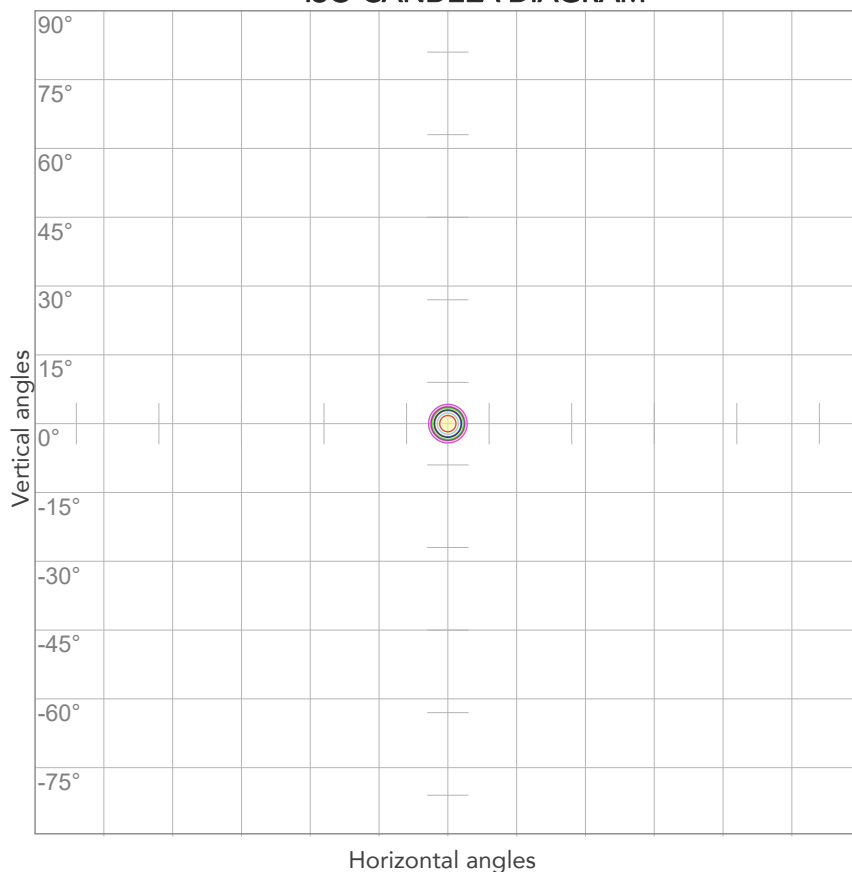


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,107A	19,7W	0,8	16lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



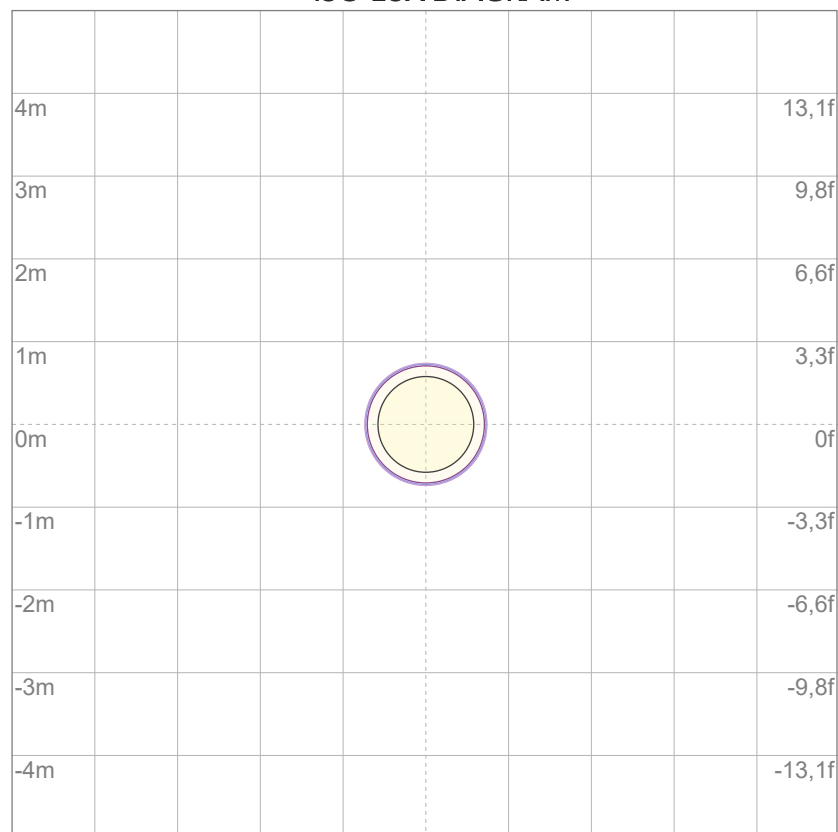
10%	3190 cd
20%	6380 cd
30%	9570 cd
40%	12761 cd
50%	15951 cd
60%	19141 cd
70%	22331 cd
80%	25521 cd

Conditions:

Number of c-planes: 2

Candela at center: 31901 cd

ISO LUX DIAGRAM



3%	9,57 lx
5%	16,0 lx
10%	31,9 lx
30%	95,7 lx
50%	160 lx

Conditions:

Number of c-planes: 2

Lux at center: 319 lx

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



Total lumen output:

350 lm

Peak candela output:

32478 cd

Light quality:

CRI: 84,7

Color temperature:

2918 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

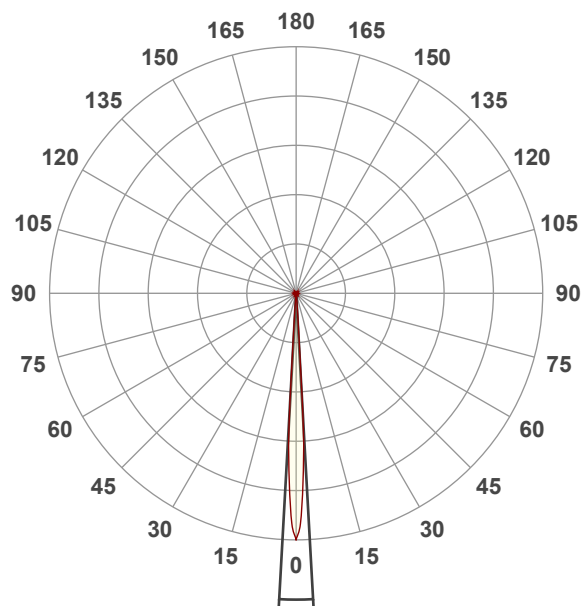
2800K

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:19:40

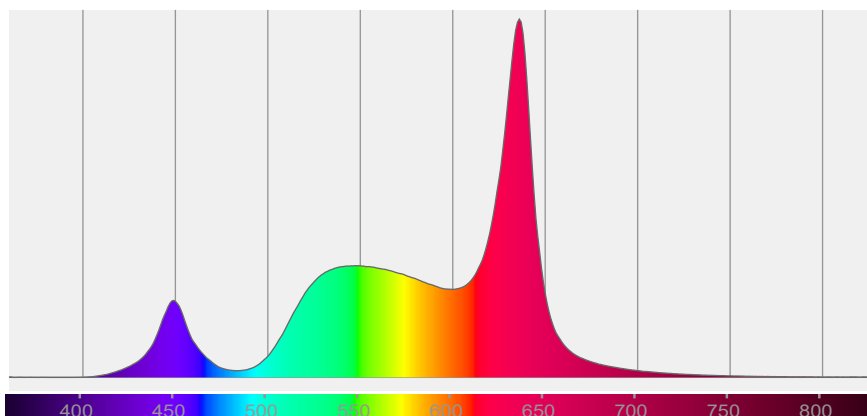


Beam angle 50%: 6,3°

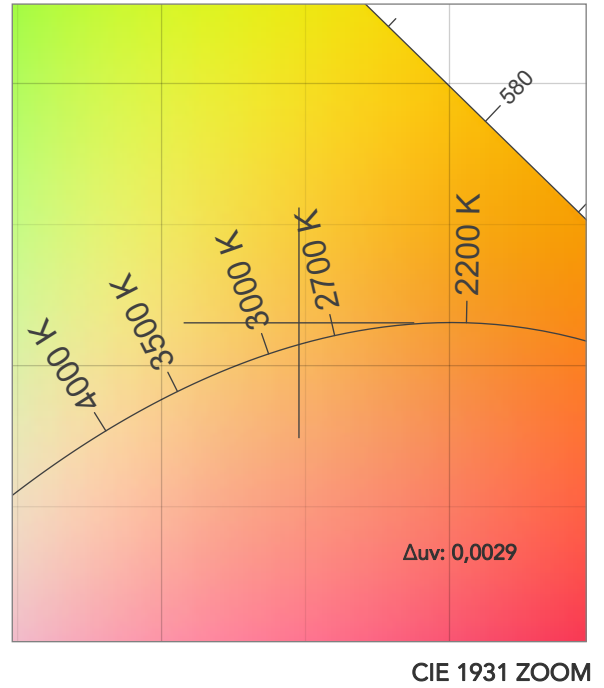
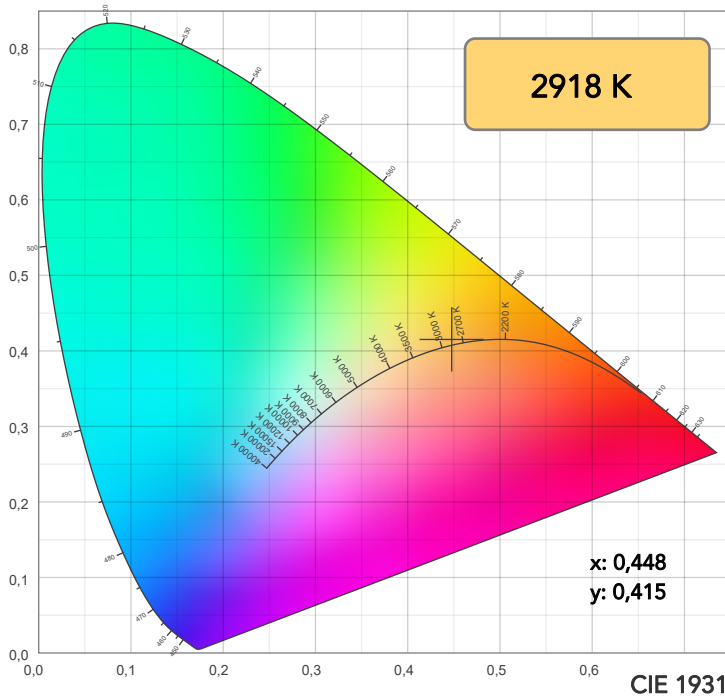
Field angle 10%: 8,3°

Cut off angle 2.5%: 9,7°

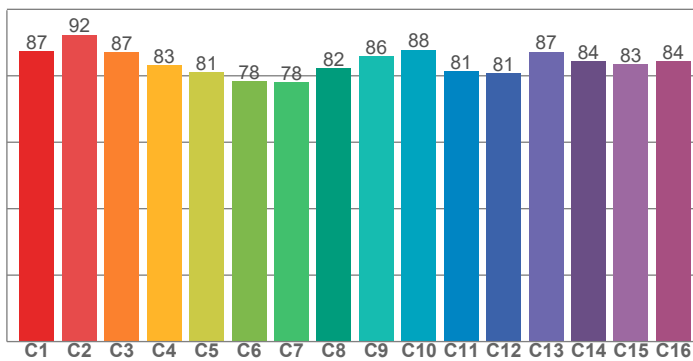
Spectra



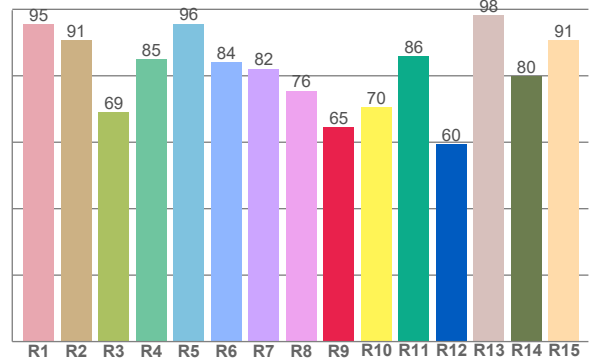
COLOR DETAILS



TM30: 84,5



CRI: 84,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,5	90,7	69,0	85,0	95,7	84,1	82,1	75,5	64,6	70,5	85,9	59,5	98,3	79,8	90,8

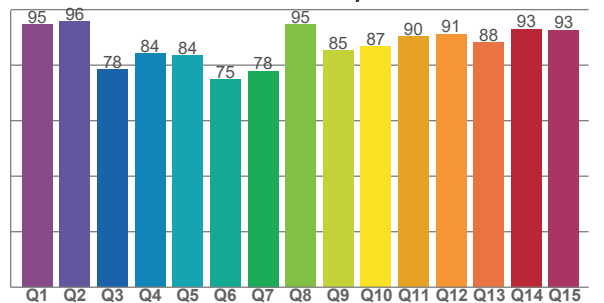
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,3	92,3	87,0	83,1	81,0	78,3	78,1	82,3	85,8	87,8	81,3	80,8	87,3	84,4	83,5	84,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,7	95,8	78,5	84,1	83,5	74,9	78,0	94,7	85,2	86,6	90,3	91,2	88,2	93,0	92,6

CQS: 85,7



COLOR PARAMETERS

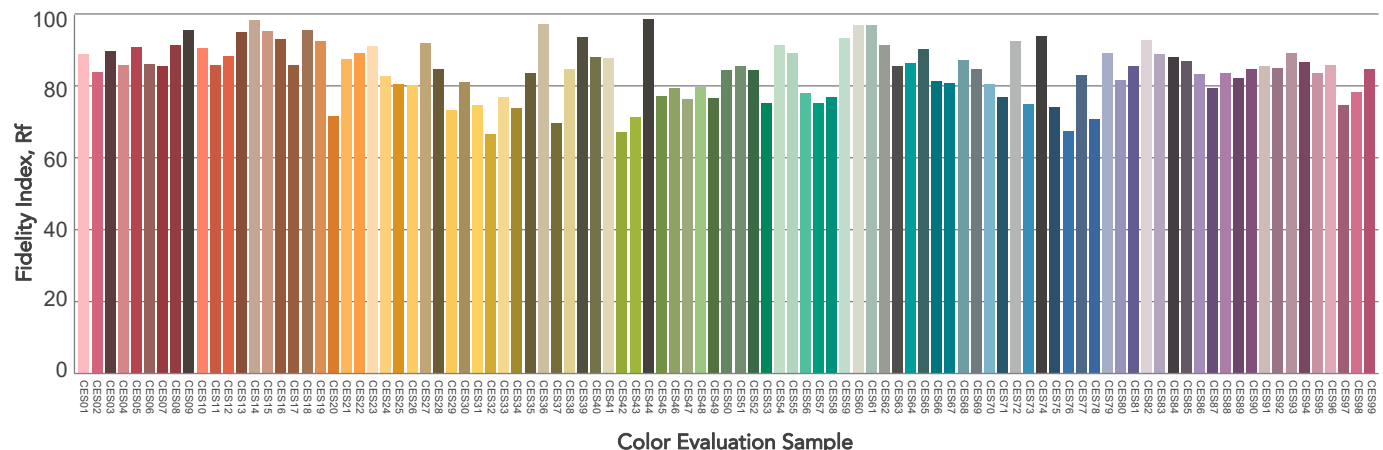
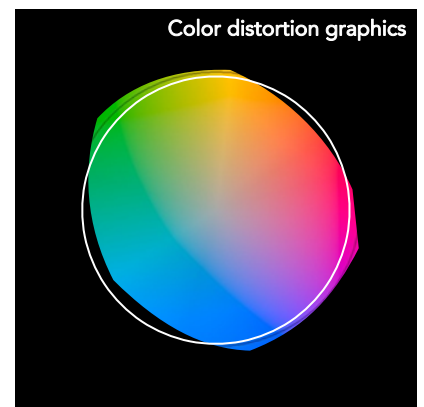
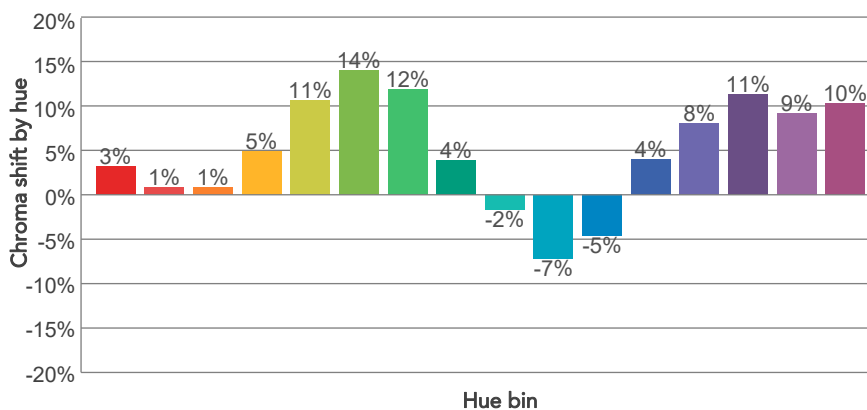
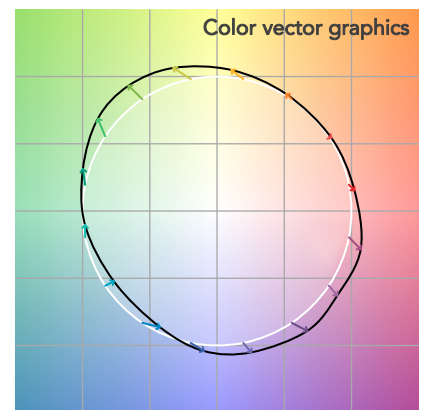
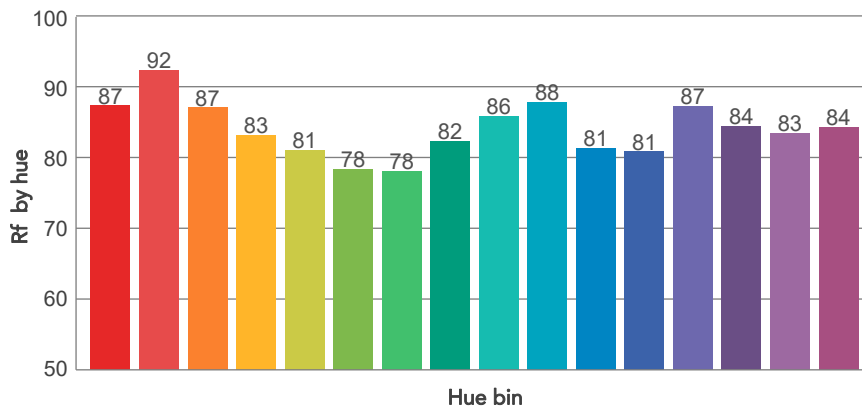
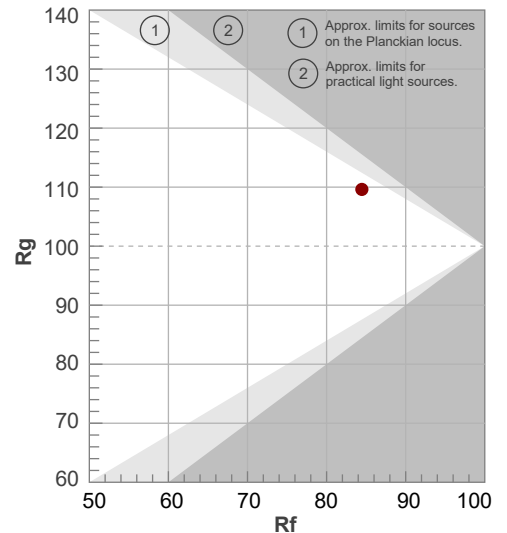
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2918 K	84,7	64,6	84,5	109,6	85,7	70	0,448	0,415	0,0029

TM30 DETAILS

Rf 84,5
Fidelity index Rf

Rg 109,6
Gammut index

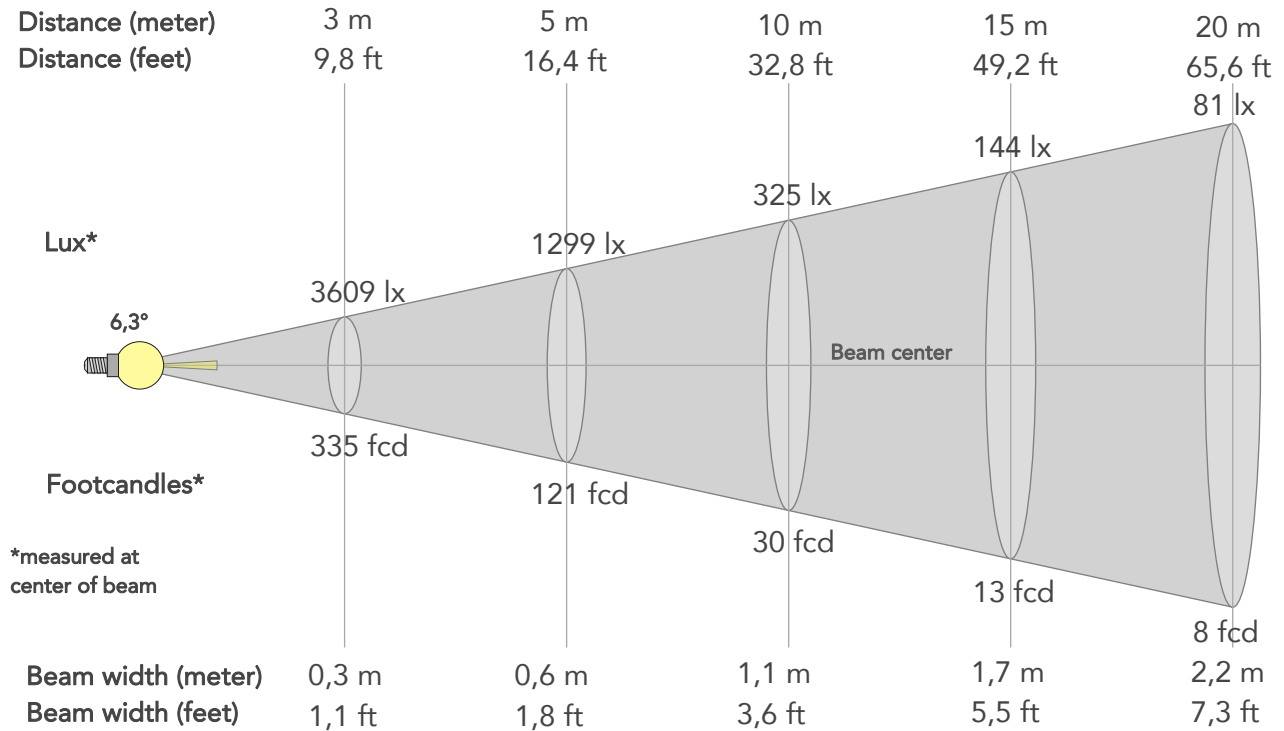
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	87	3%	-5%
2	92	1%	-2%
3	87	1%	6%
4	83	5%	10%
5	81	11%	11%
6	78	14%	3%
7	78	12%	-8%
8	82	4%	-11%
9	86	-2%	-9%
10	88	-7%	1%
11	81	-5%	13%
12	81	4%	11%
13	87	8%	4%
14	84	11%	6%
15	83	9%	-3%
16	84	10%	-7%



BEAM DETAILS



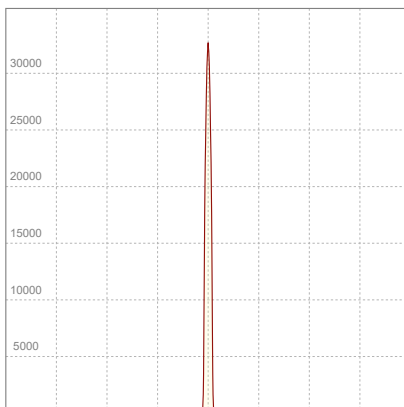
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,3°	9,7°	91,7%	89,6%



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	32478lx	8120lx	3609lx	2030lx	1299lx	577lx	325lx	144lx	81lx	52lx	36lx	20lx	13lx
Footcand.	3017fcd	754fcd	335fcd	189fcd	121fcd	54fcd	30fcd	13fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,5ft	1,8ft	2,7ft	3,6ft	5,5ft	7,3ft	9,1ft	10,9ft	14,5ft	18,2ft

LINEAR DISTRIBUTION DIAGRAM

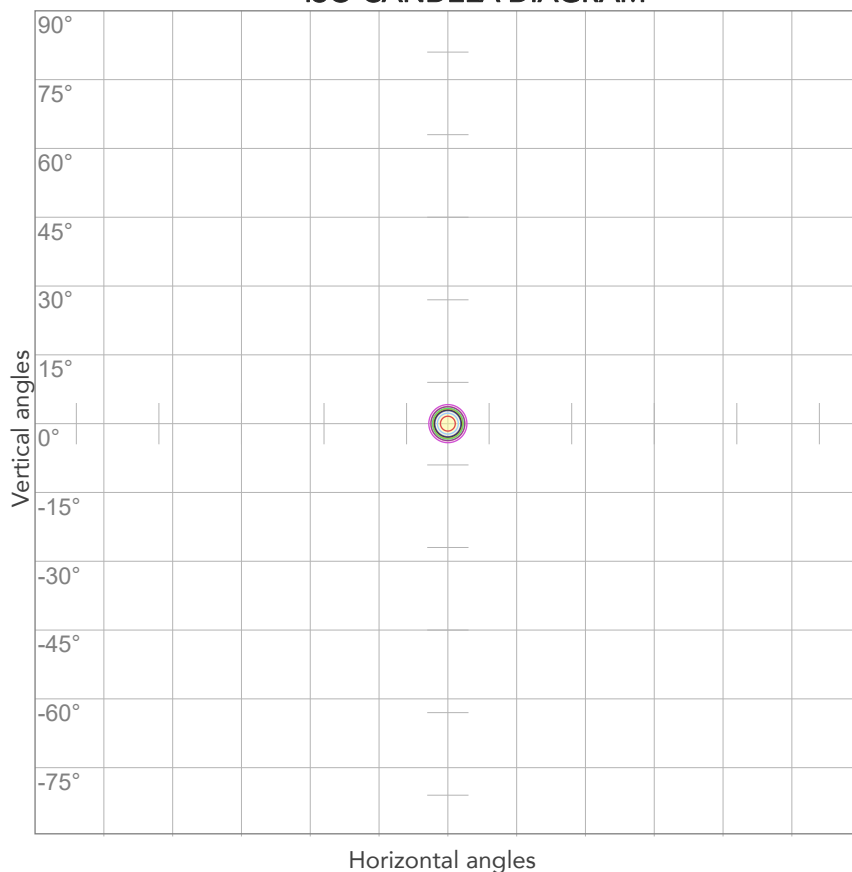


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,122A	23,2W	0,83	15lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



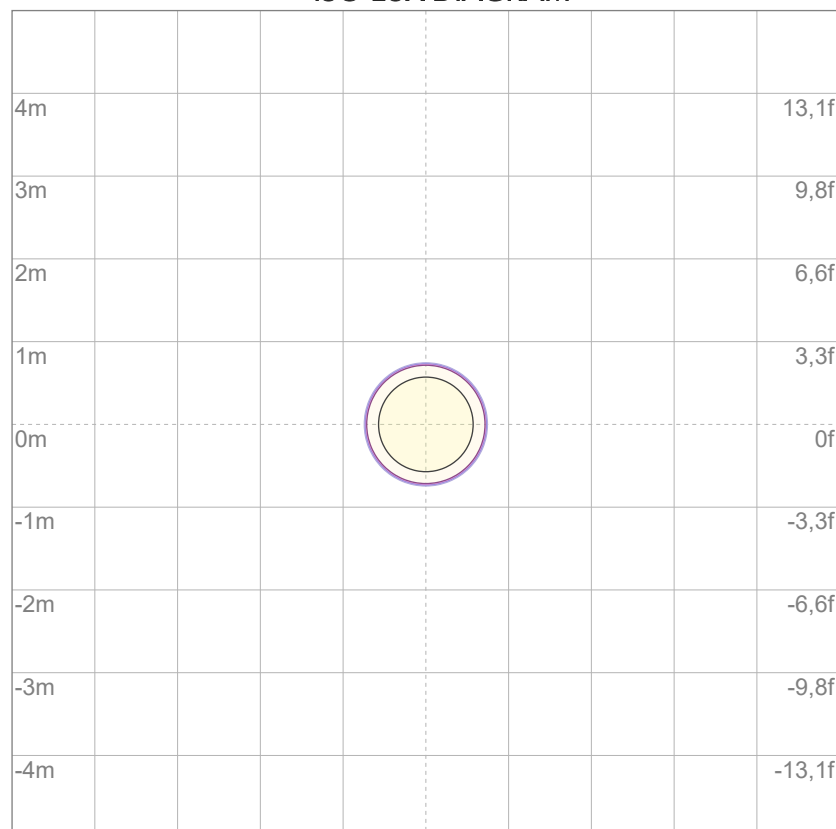
10%	3248 cd
20%	6496 cd
30%	9744 cd
40%	12991 cd
50%	16239 cd
60%	19487 cd
70%	22735 cd
80%	25983 cd

Conditions:

Number of c-planes: 2

Candela at center: 32478 cd

ISO LUX DIAGRAM



3%	9,74 lx
5%	16,2 lx
10%	32,5 lx
30%	97,4 lx
50%	162 lx

Conditions:

Number of c-planes: 2

Lux at center: 325 lx

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



Total lumen output:

383 lm

Peak candela output:

36432 cd

Light quality:

CRI: 84,5

Color temperature:

3231 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

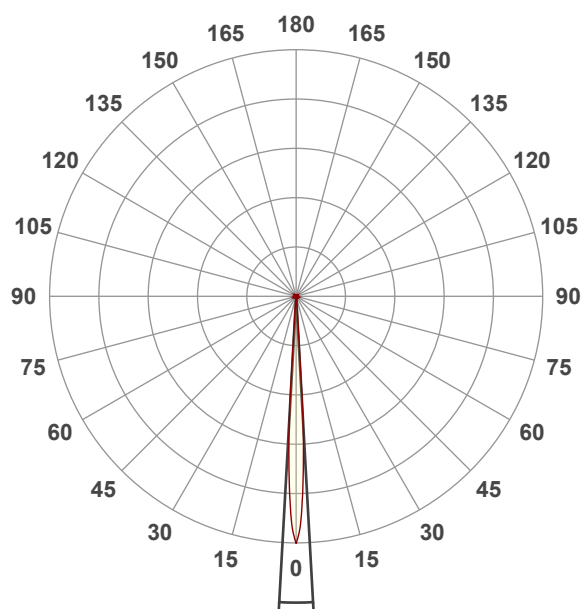
3200K

Operator:

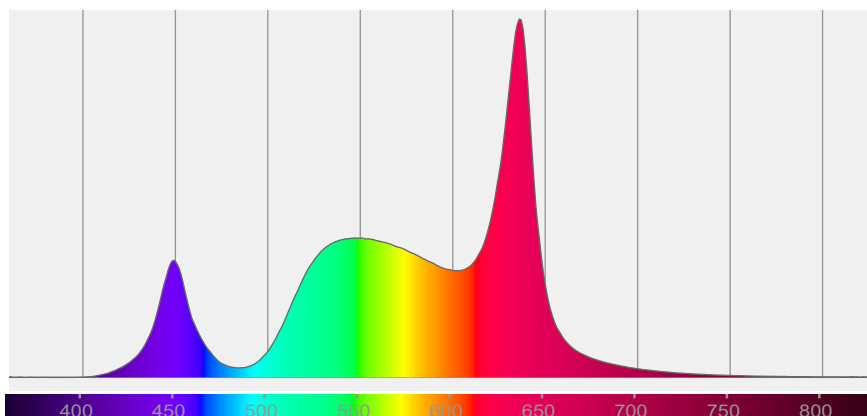
Giuseppe della Peruta

Date and time:

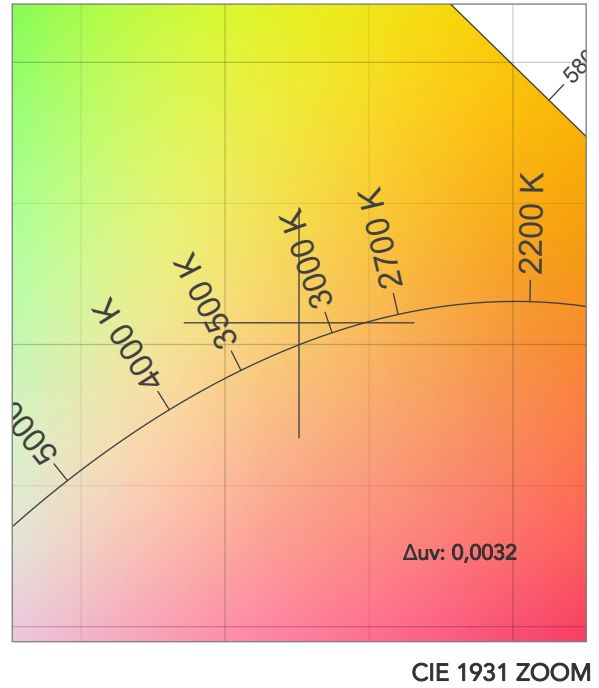
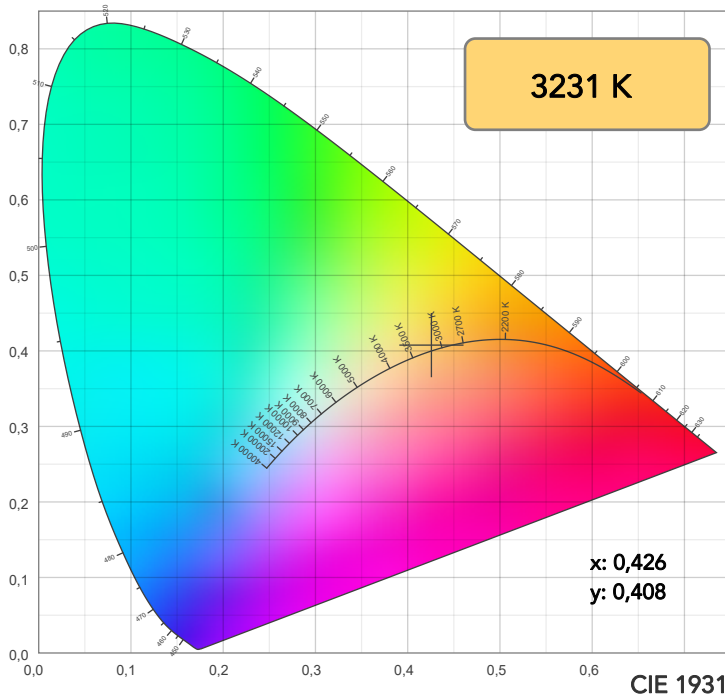
30/07/2025 11:29:11



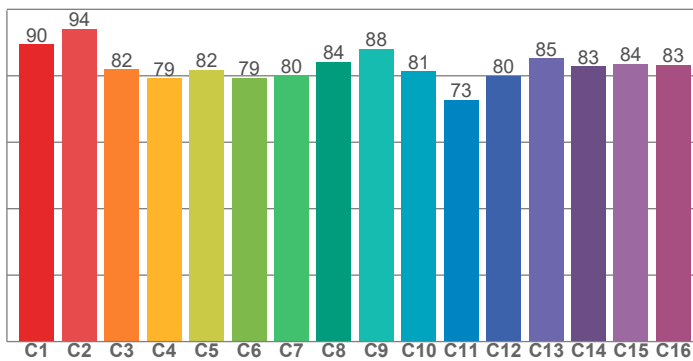
Spectra



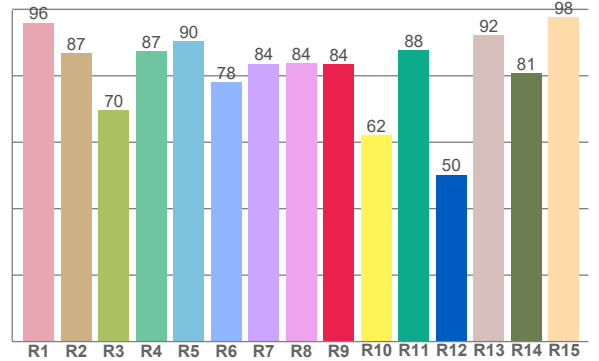
COLOR DETAILS



TM30: 83,2



CRI: 84,5 (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
96,0	86,8	69,7	87,5	90,5	78,0	83,7	83,9	83,6	62,2	87,6	50,2	92,3	80,7	97,6

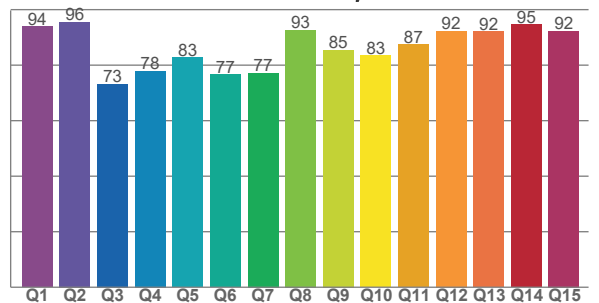
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,5	94,1	82,0	79,2	81,8	79,4	80,2	84,2	88,1	81,3	72,8	80,0	85,3	82,9	83,6	83,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,0	95,5	73,2	77,8	82,7	76,7	77,1	92,7	85,5	83,4	87,4	92,4	92,2	94,7	92,4

CQS: 84,5



COLOR PARAMETERS

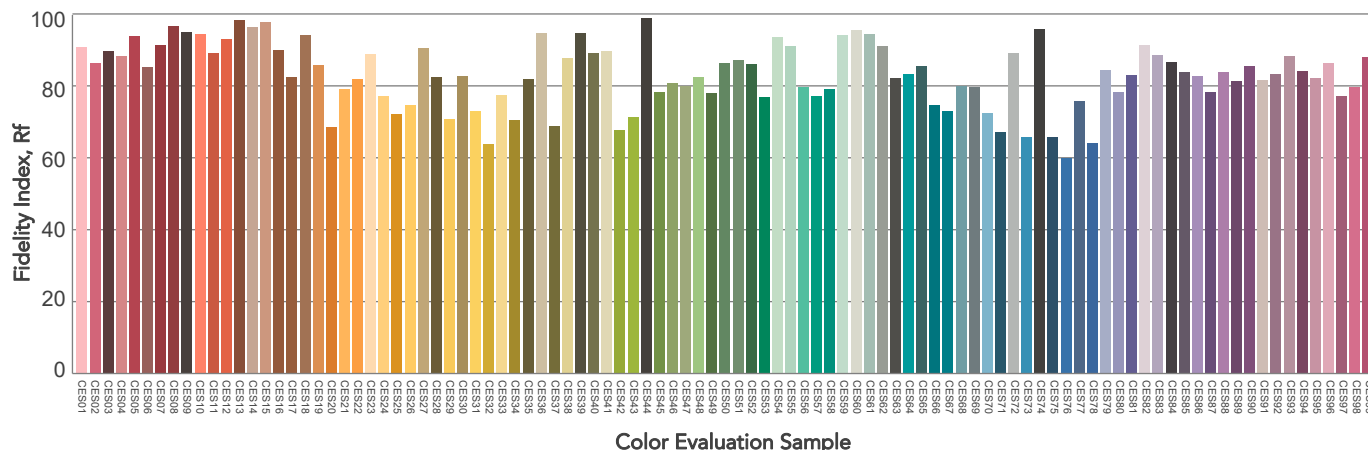
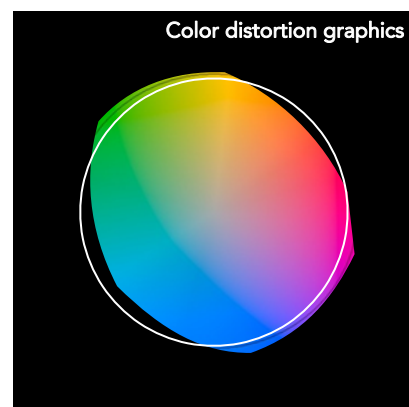
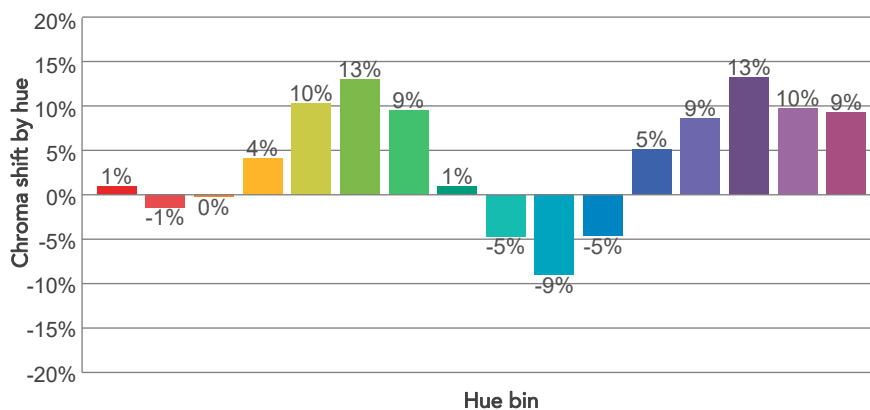
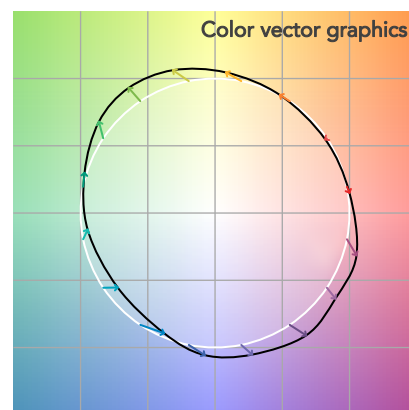
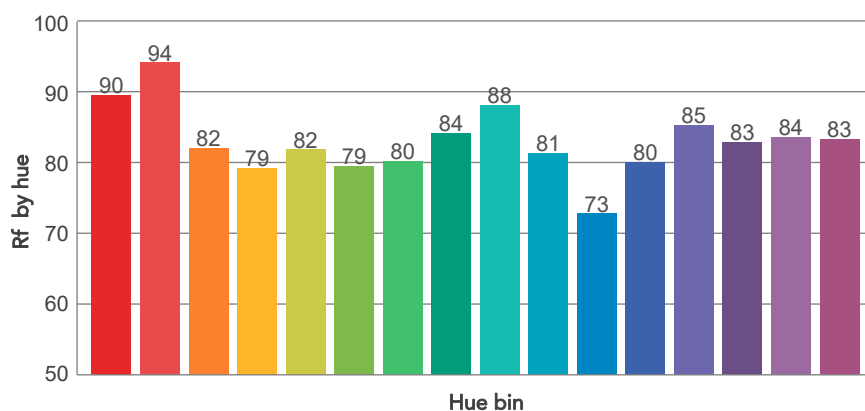
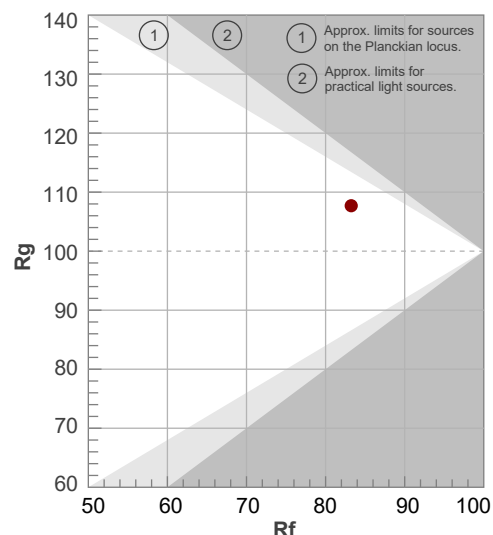
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3231 K	84,5	83,6	83,2	107,7	84,5	71	0,426	0,408	0,0032

TM30 DETAILS

Rf 83,2
Fidelity index Rf

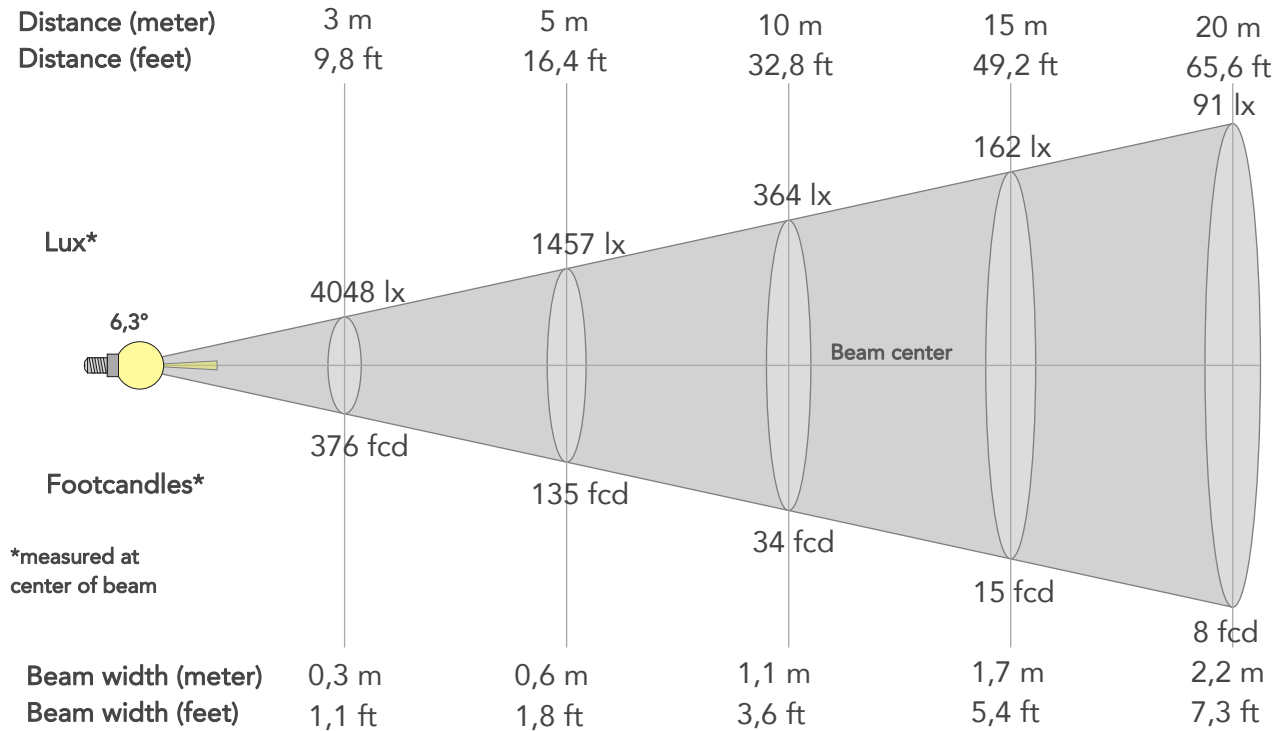
Rg 107,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	1%	-5%
2	94	-1%	0%
3	82	0%	9%
4	79	4%	12%
5	82	10%	10%
6	79	13%	2%
7	80	9%	-8%
8	84	1%	-10%
9	88	-5%	-6%
10	81	-9%	6%
11	73	-5%	18%
12	80	5%	13%
13	85	9%	7%
14	83	13%	6%
15	84	10%	-3%
16	83	9%	-10%



BEAM DETAILS

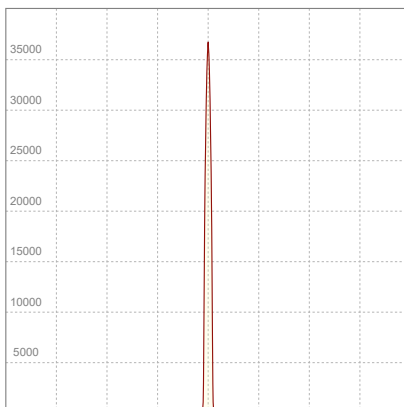
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,2°	9,7°	92,3%	90,5%



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	36432lx	9108lx	4048lx	2277lx	1457lx	648lx	364lx	162lx	91lx	58lx	40lx	23lx	15lx
Footcand.	3385fcd	846fcd	376fcd	212fcd	135fcd	60fcd	34fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,6ft	5,4ft	7,3ft	9,1ft	10,9ft	14,5ft	18,1ft

LINEAR DISTRIBUTION DIAGRAM

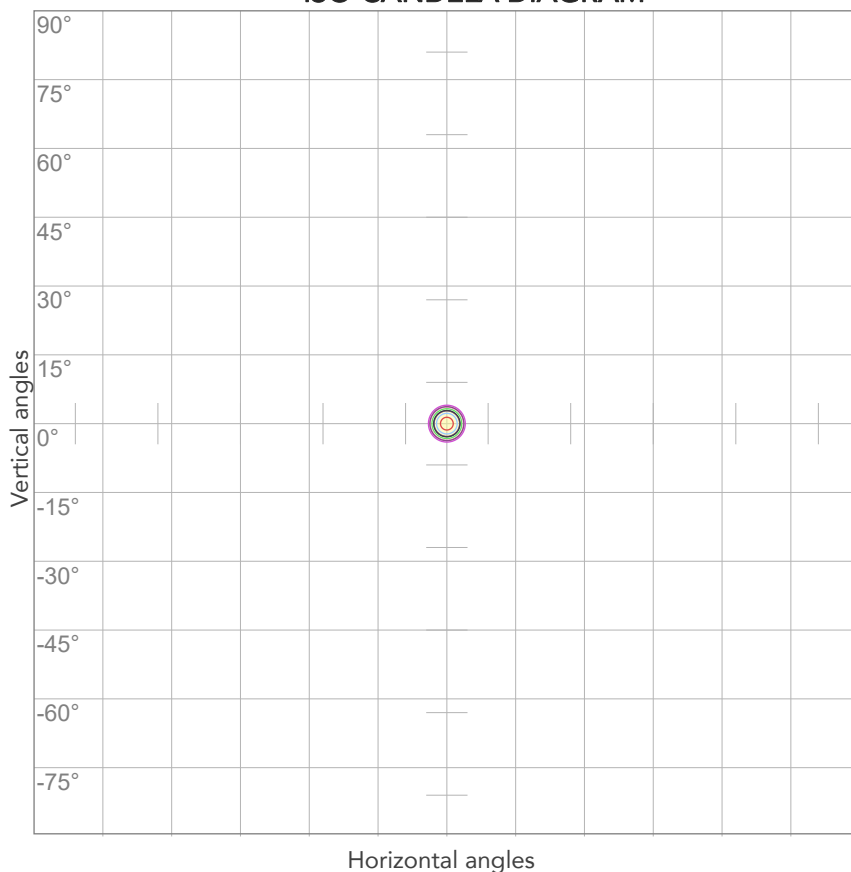


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,131A	25,6W	0,85	15lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



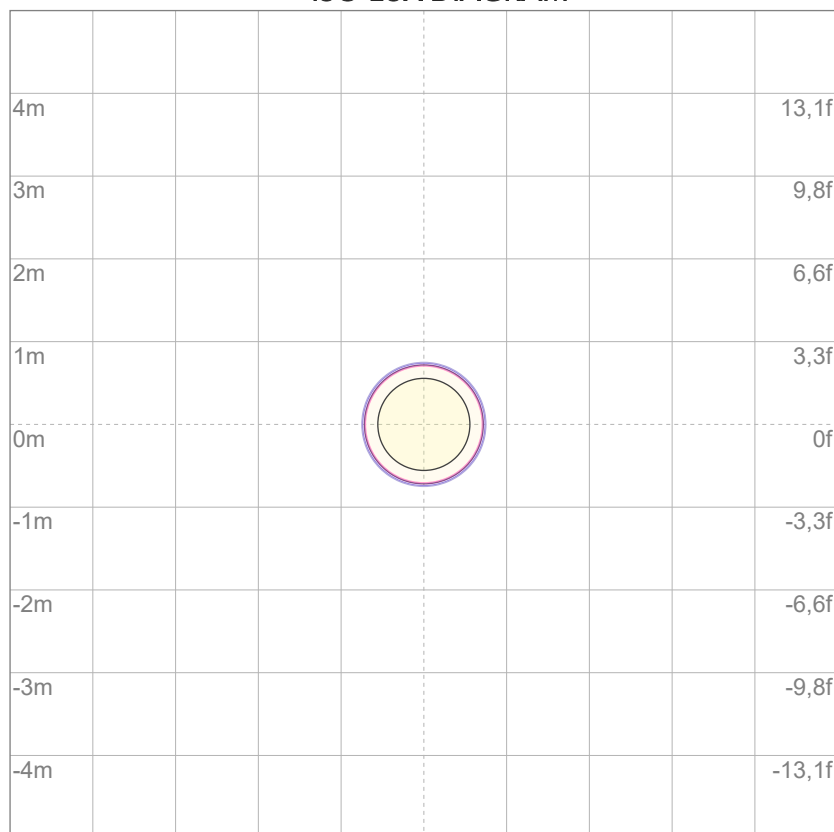
10%	3643 cd
20%	7286 cd
30%	10930 cd
40%	14573 cd
50%	18216 cd
60%	21859 cd
70%	25503 cd
80%	29146 cd

Conditions:

Number of c-planes: 2

Candela at center: 36432 cd

ISO LUX DIAGRAM



3%	10,9 lx
5%	18,2 lx
10%	36,4 lx
30%	109 lx
50%	182 lx

Conditions:

Number of c-planes: 2

Lux at center: 364 lx

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



Total lumen output:

364 lm

Peak candela output:

35452 cd

Light quality:

CRI: 82,7

Color temperature:

4025 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

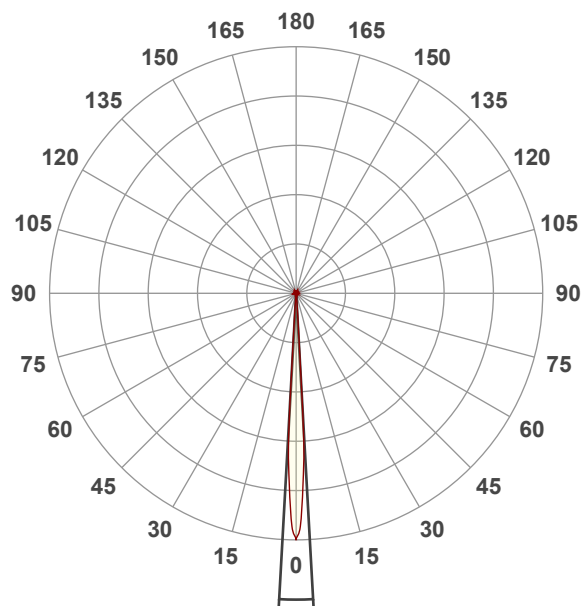
4000K

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:32:34

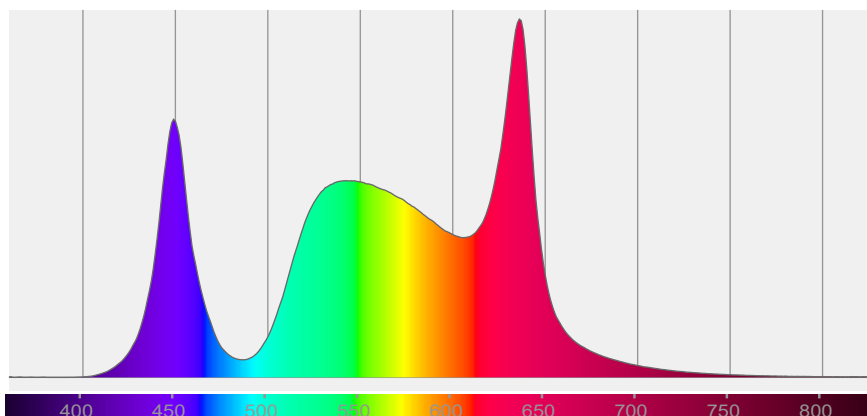


Beam angle 50%: 6,4°

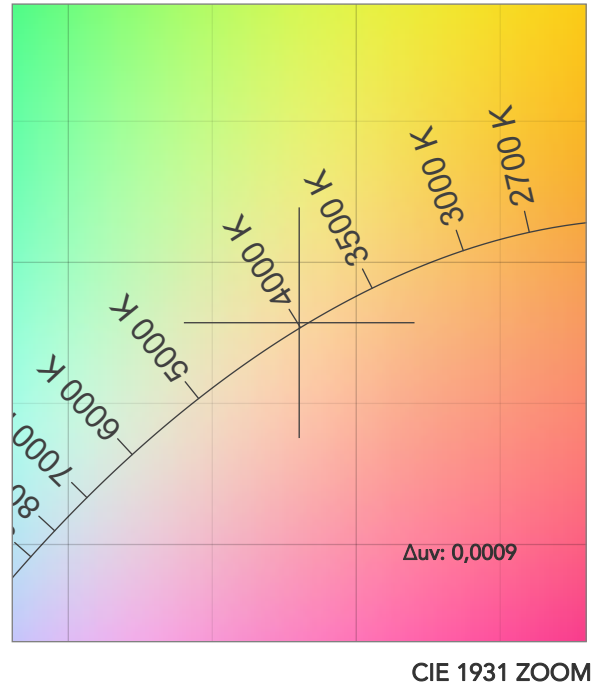
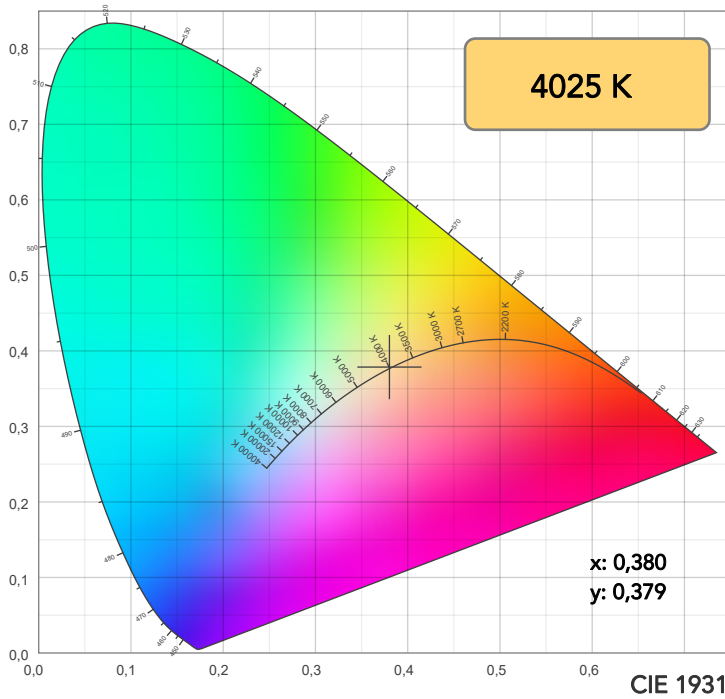
Field angle 10%: 8°

Cut off angle 2.5%: 9,5°

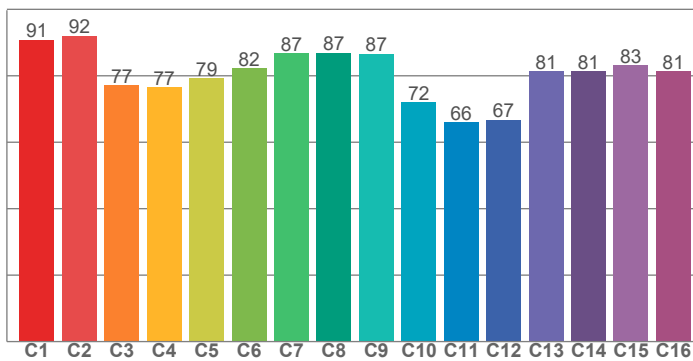
Spectra



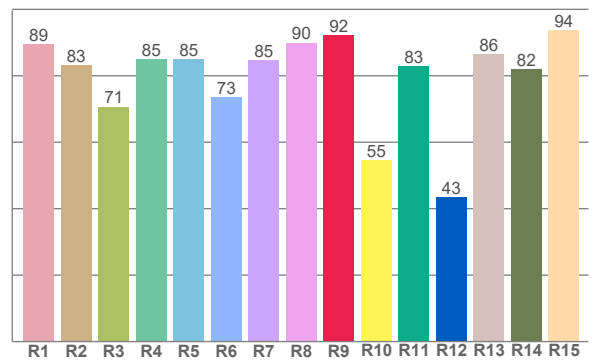
COLOR DETAILS



TM30: 80,6



CRI: 82,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89,5	83,2	70,7	85,1	84,9	73,4	84,7	90,0	92,3	54,6	83,0	43,4	86,4	82,0	93,6

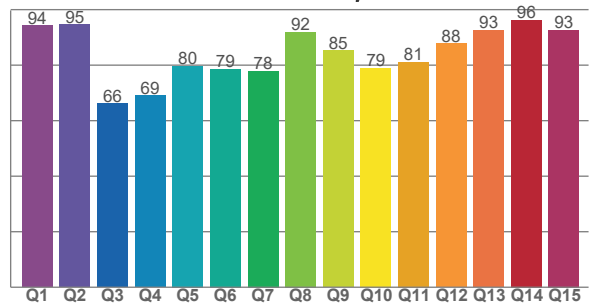
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,9	92,0	77,1	76,6	79,2	82,2	86,7	87,0	86,6	72,1	66,0	66,7	81,3	81,3	83,1	81,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,4	94,6	66,1	69,1	79,6	78,6	77,9	92,0	85,3	79,0	81,1	87,9	92,6	96,3	92,7

CQS: 82,0



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4025 K	82,7	92,3	80,6	104,6	82,0	69	0,380	0,379	0,0009

TM30 DETAILS

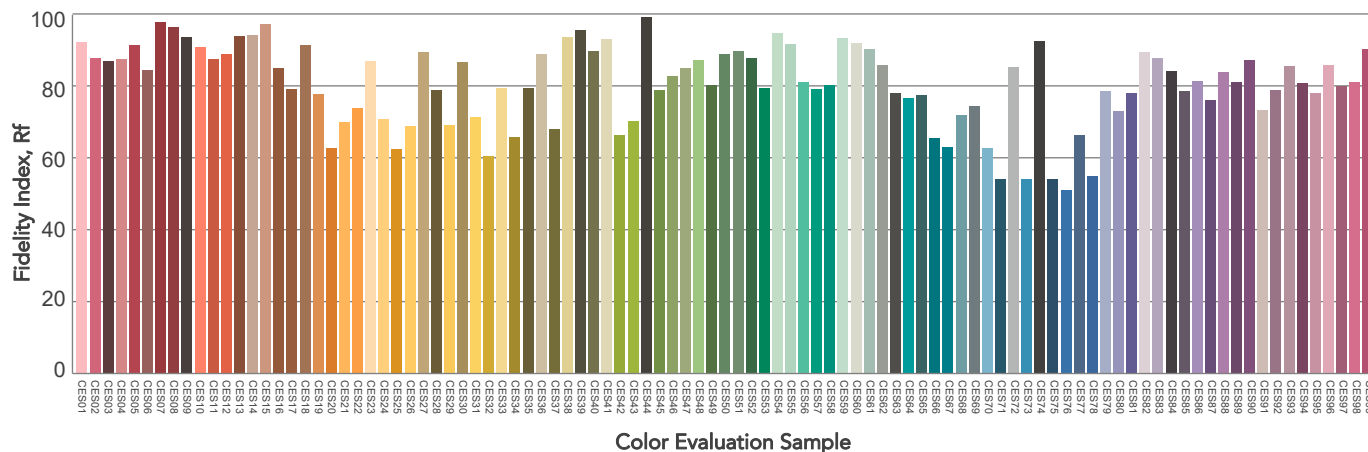
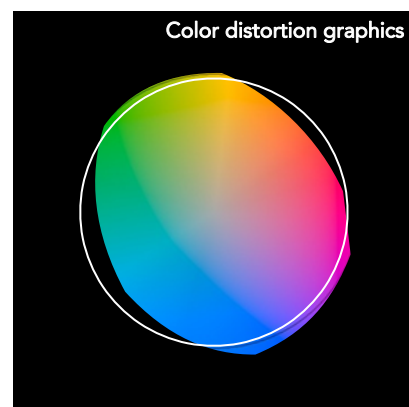
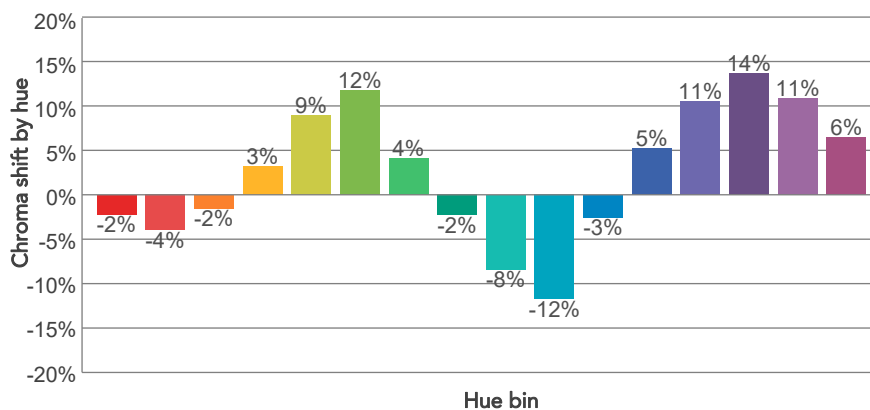
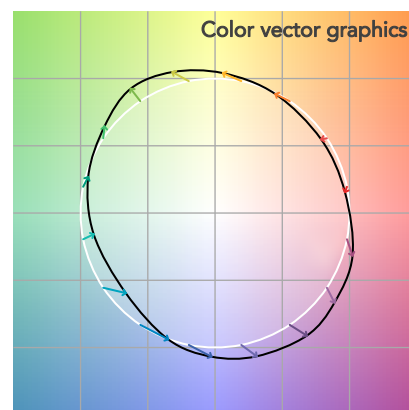
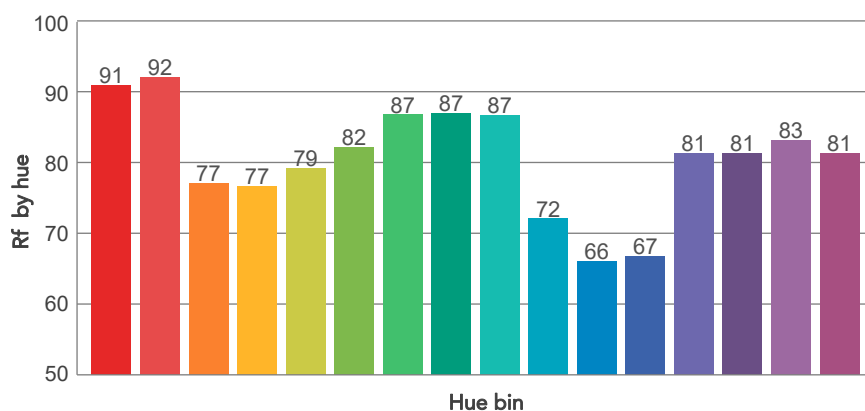
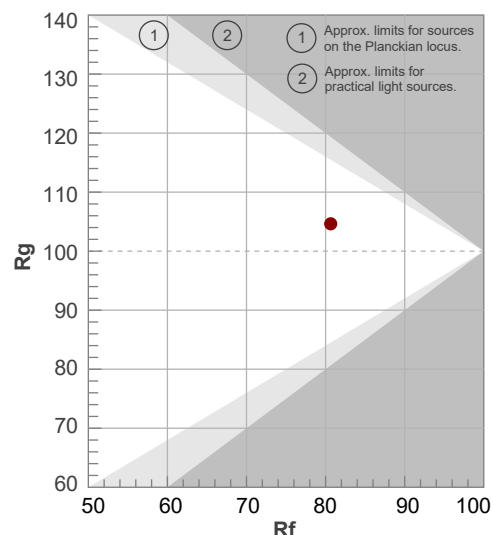
Rf 80,6

Fidelity index Rf

Rg 104,6

Gammut index

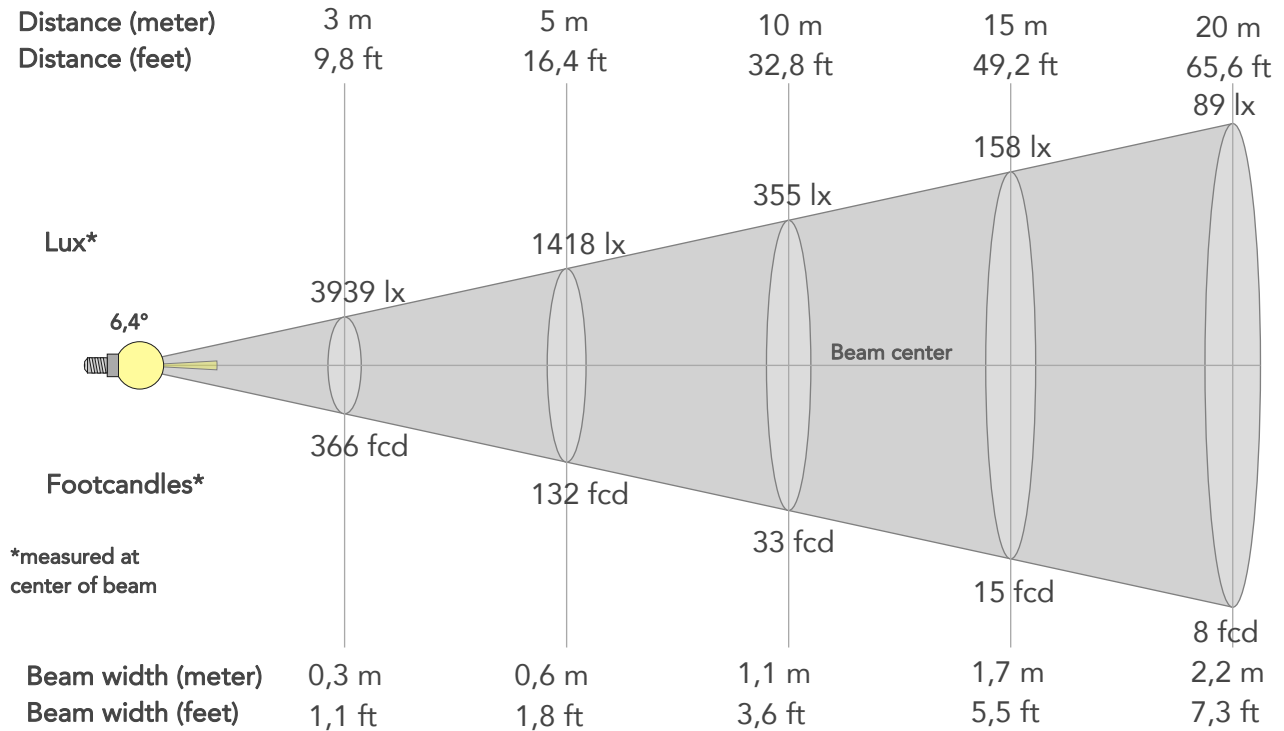
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-2%	-4%
2	92	-4%	2%
3	77	-2%	12%
4	77	3%	15%
5	79	9%	11%
6	82	12%	1%
7	87	4%	-8%
8	87	-2%	-8%
9	87	-8%	-2%
10	72	-12%	13%
11	66	-3%	23%
12	67	5%	18%
13	81	11%	10%
14	81	14%	6%
15	83	11%	-6%
16	81	6%	-11%



BEAM DETAILS



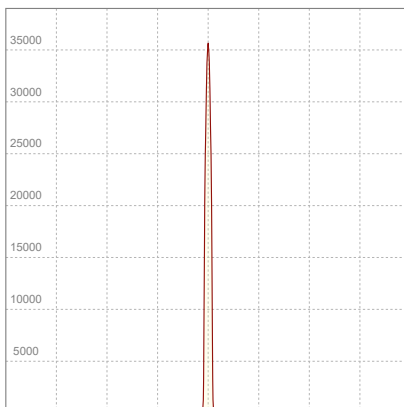
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,4°	8°	9,5°	93,9%	92,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	35452lx	8863lx	3939lx	2216lx	1418lx	630lx	355lx	158lx	89lx	57lx	39lx	22lx	14lx
Footcand.	3294fcd	823fcd	366fcd	206fcd	132fcd	59fcd	33fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,6m
Beam wid.	0,4ft	0,7ft	1,1ft	1,5ft	1,8ft	2,7ft	3,6ft	5,5ft	7,3ft	9,1ft	10,9ft	14,6ft	18,2ft

LINEAR DISTRIBUTION DIAGRAM

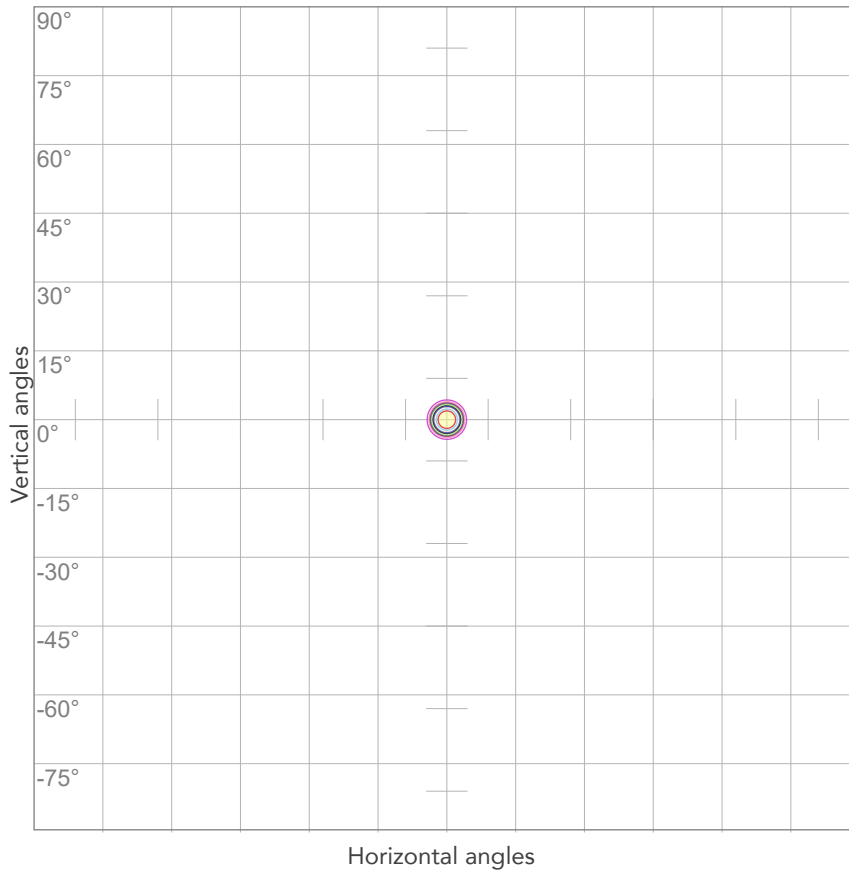


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,131A	25,8W	0,86	14lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



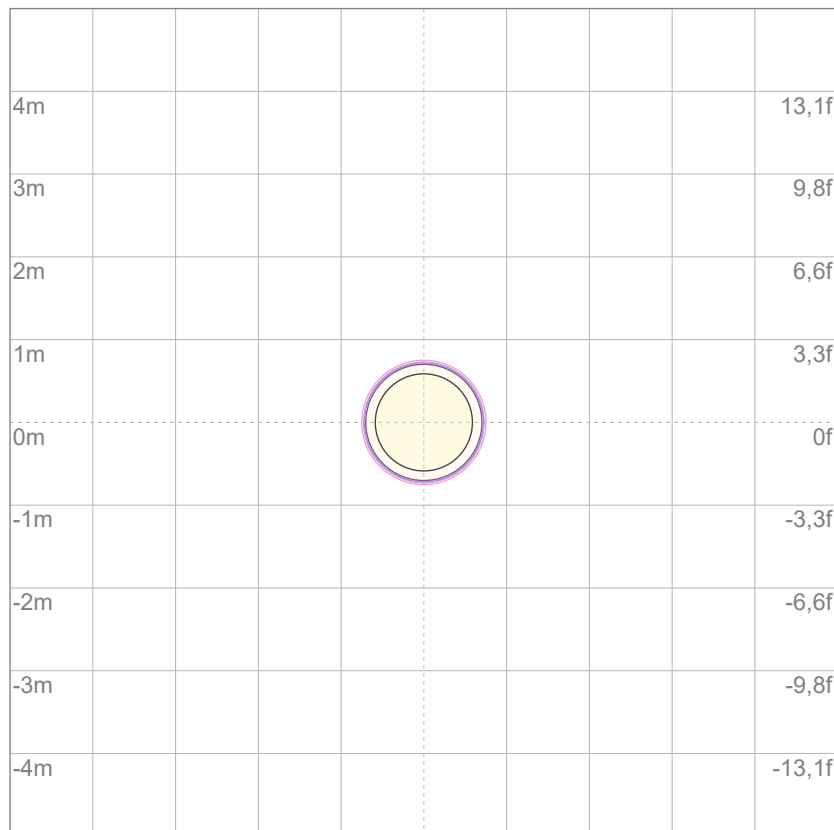
10%	3545 cd
20%	7090 cd
30%	10636 cd
40%	14181 cd
50%	17726 cd
60%	21271 cd
70%	24816 cd
80%	28362 cd

Conditions:

Number of c-planes: 2

Candela at center: 35452 cd

ISO LUX DIAGRAM



3%	10,6 lx
5%	17,7 lx
10%	35,5 lx
30%	106 lx
50%	177 lx

Conditions:

Number of c-planes: 2

Lux at center: 355 lx

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



Total lumen output:

381 lm

Peak candela output:

37254 cd

Light quality:

CRI: 83,2

Color temperature:

5590 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

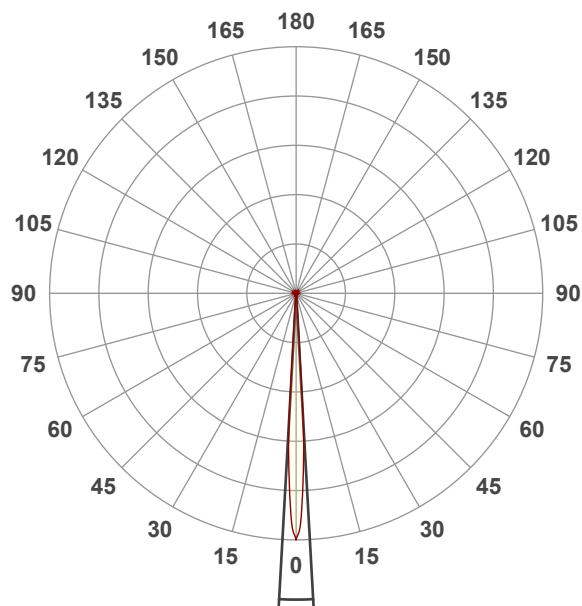
5600K

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:45:13

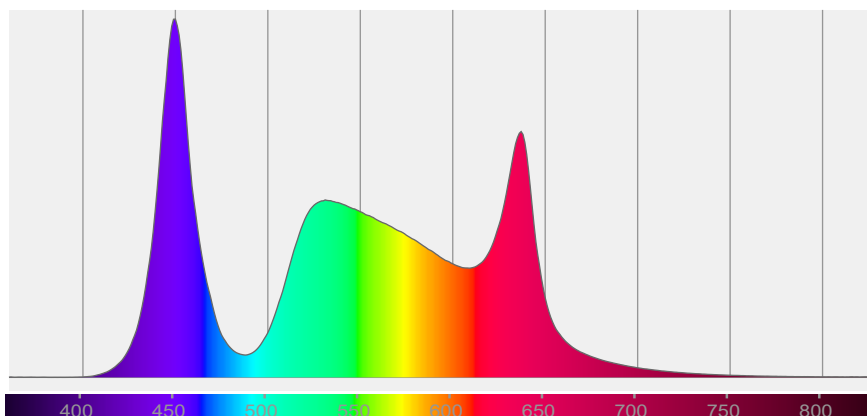


Beam angle 50%: 6,4°

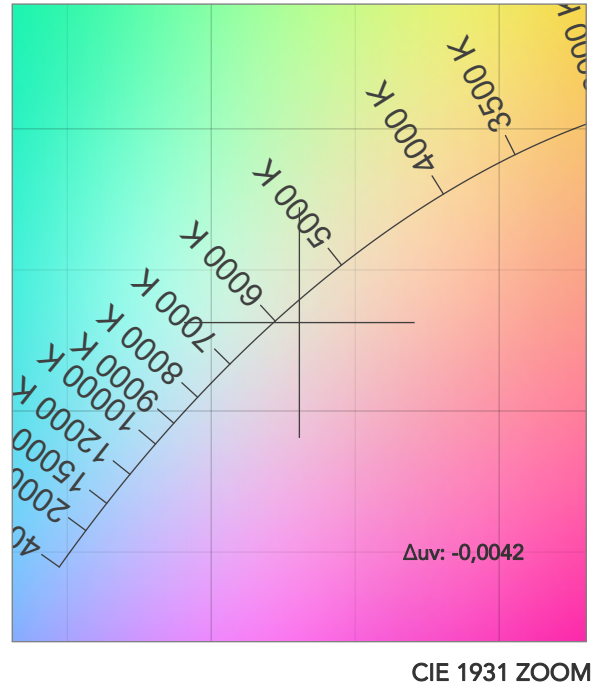
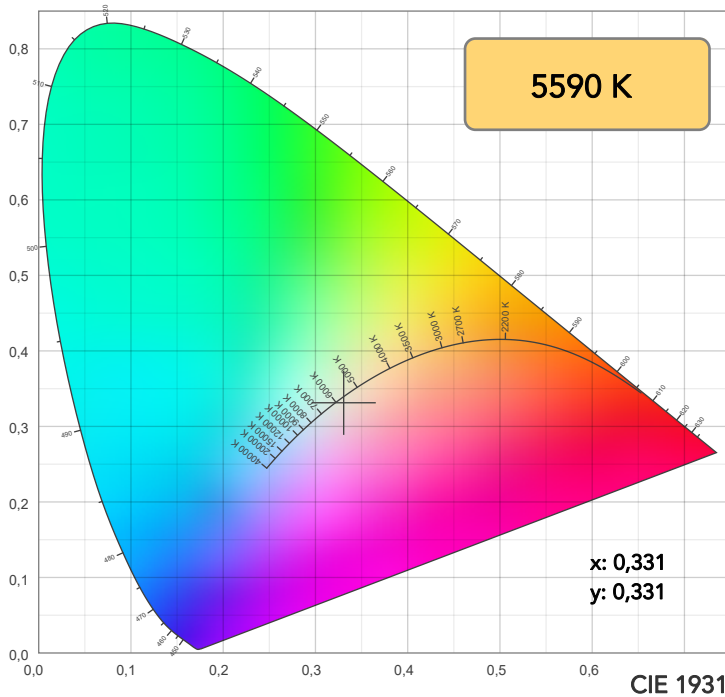
Field angle 10%: 8,4°

Cut off angle 2.5%: 9,7°

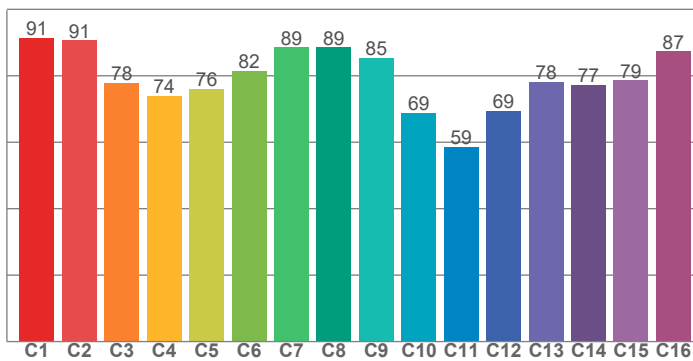
Spectra



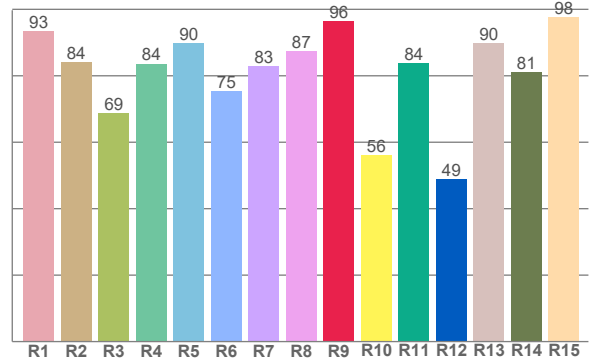
COLOR DETAILS



TM30: 79,2



CRI: 83,2 (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
93,5	84,0	68,8	83,7	89,7	75,3	83,0	87,4	96,4	56,1	83,8	48,9	89,8	81,1	97,6

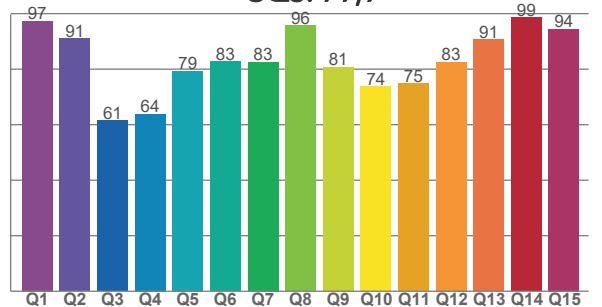
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,5	90,7	77,9	73,9	76,1	81,5	88,5	88,5	85,5	68,8	58,6	69,4	78,2	77,3	78,7	87,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	91,0	61,4	63,8	79,3	82,7	82,6	95,7	80,8	73,8	74,9	82,6	90,6	98,6	94,5

CQS: 79,9



COLOR PARAMETERS

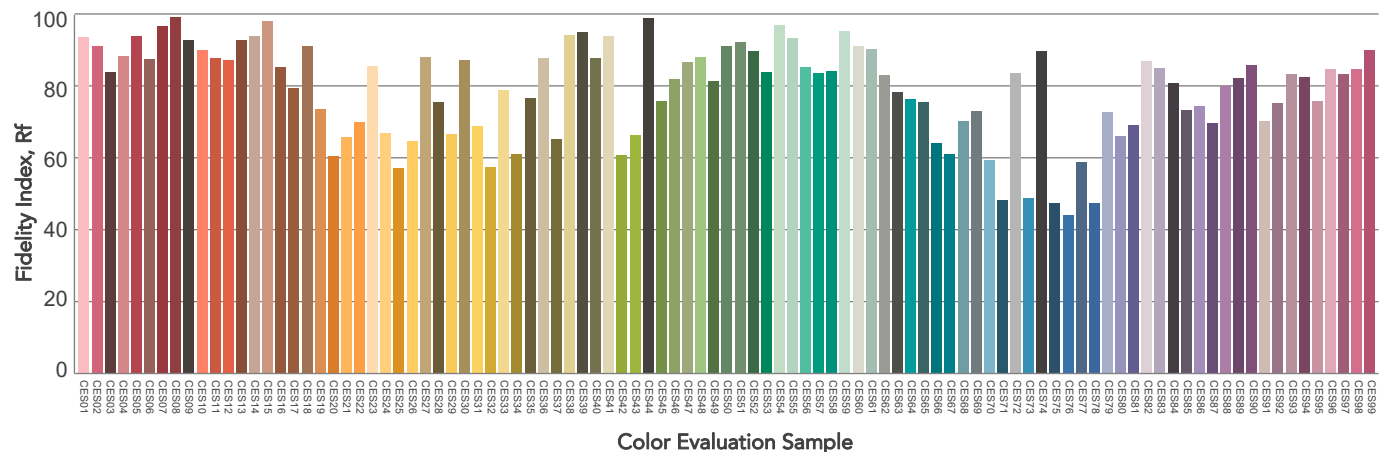
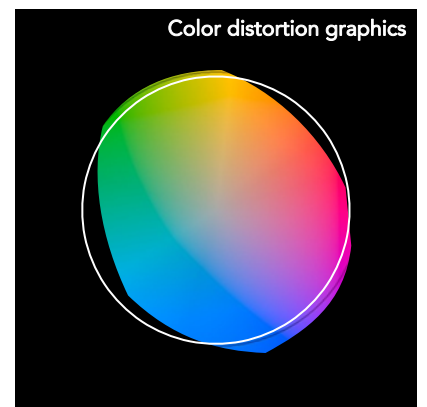
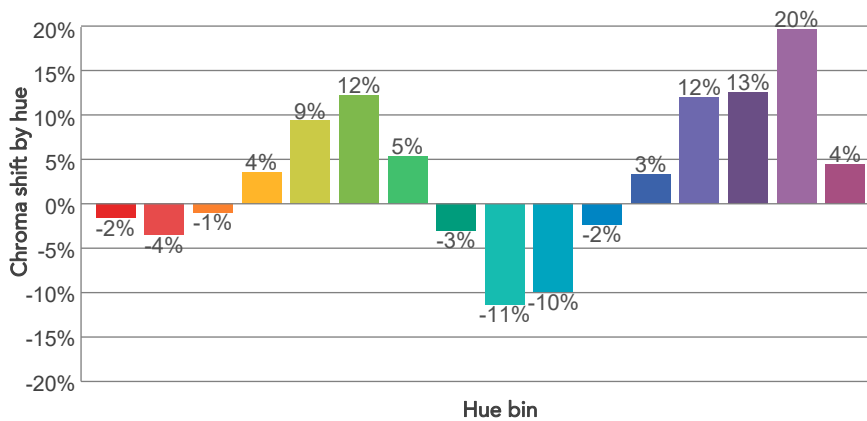
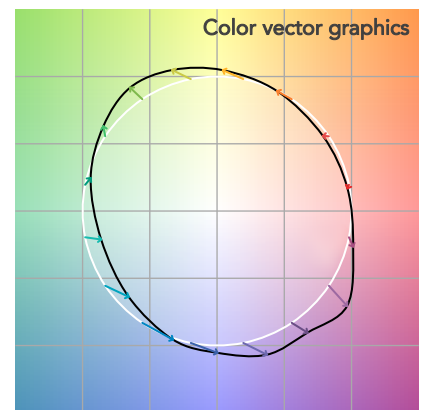
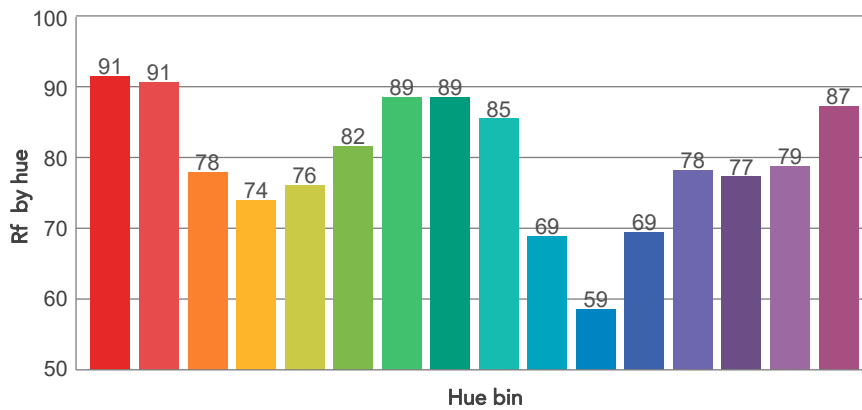
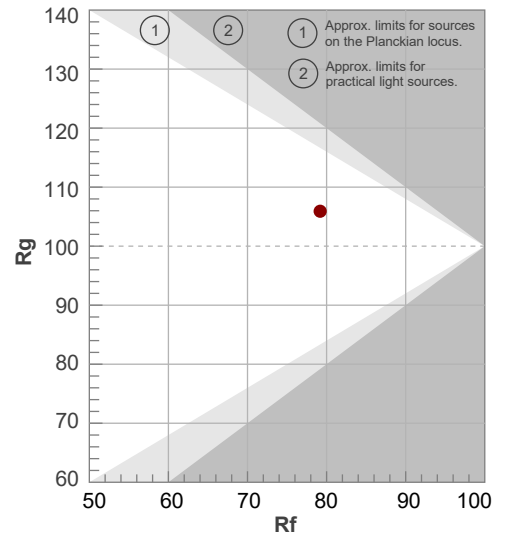
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5590 K	83,2	96,4	79,2	105,9	79,9	73	0,331	0,331	-0,0042

TM30 DETAILS

Rf 79,2
Fidelity index Rf

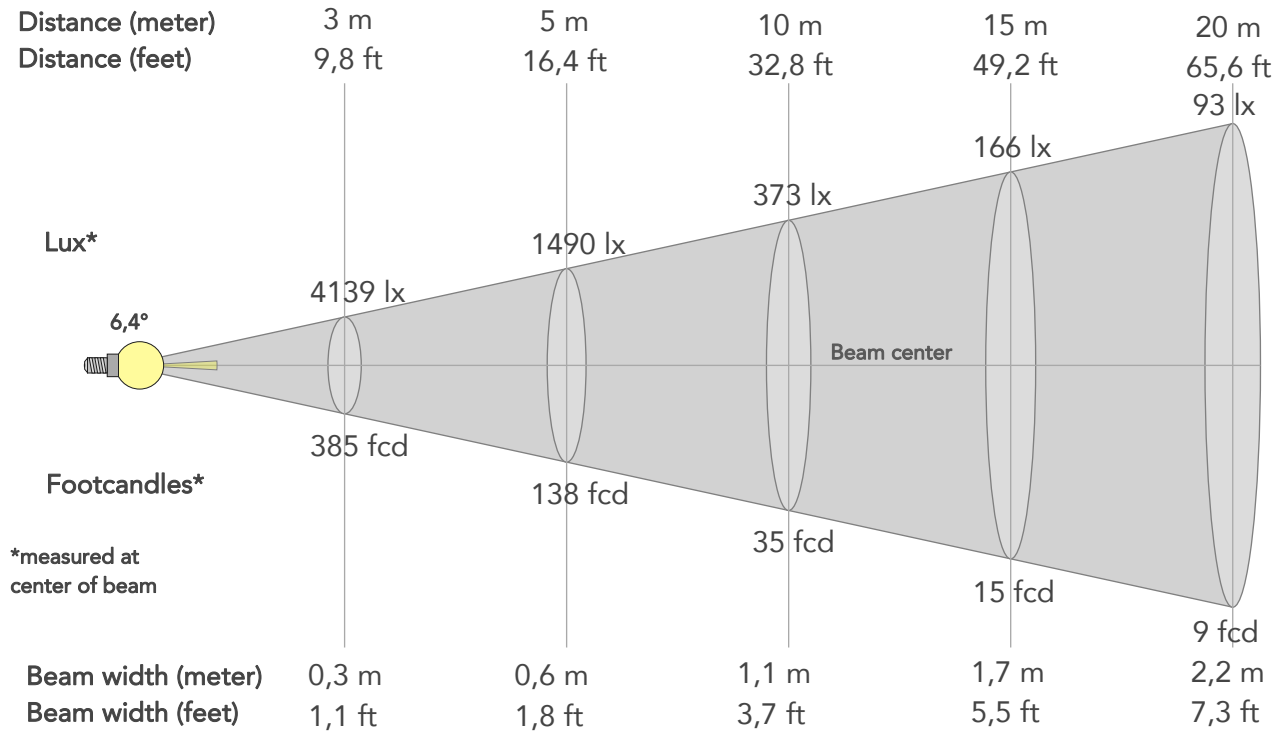
Rg 105,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-2%	-2%
2	91	-4%	3%
3	78	-1%	12%
4	74	4%	16%
5	76	9%	12%
6	82	12%	3%
7	89	5%	-5%
8	89	-3%	-6%
9	85	-11%	4%
10	69	-10%	17%
11	59	-2%	26%
12	69	3%	21%
13	78	12%	16%
14	77	13%	6%
15	79	20%	-5%
16	87	4%	-6%



BEAM DETAILS

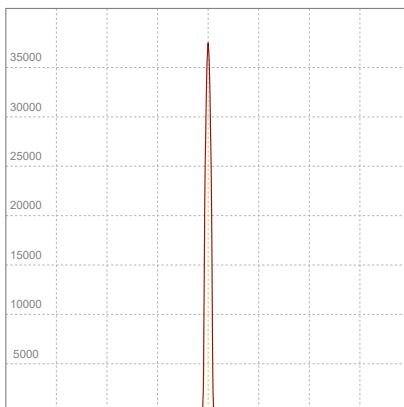
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,4°	8,4°	9,7°	95,2%	94,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	37254lx	9314lx	4139lx	2328lx	1490lx	662lx	373lx	166lx	93lx	60lx	41lx	23lx	15lx
Footcand.	3461fcd	865fcd	385fcd	216fcd	138fcd	62fcd	35fcd	15fcd	9fcd	6fcd	4fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,5m	5,6m
Beam wid.	0,4ft	0,7ft	1,1ft	1,5ft	1,8ft	2,7ft	3,7ft	5,5ft	7,3ft	9,1ft	11ft	14,6ft	18,3ft

LINEAR DISTRIBUTION DIAGRAM

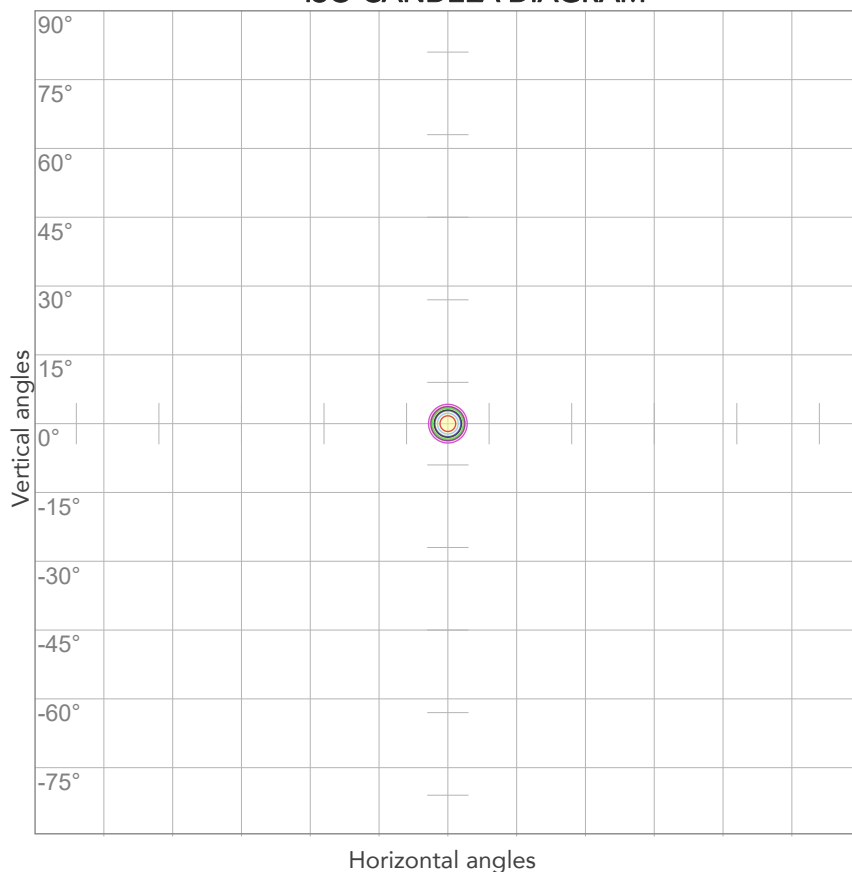


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,141A	28,3W	0,87	13lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



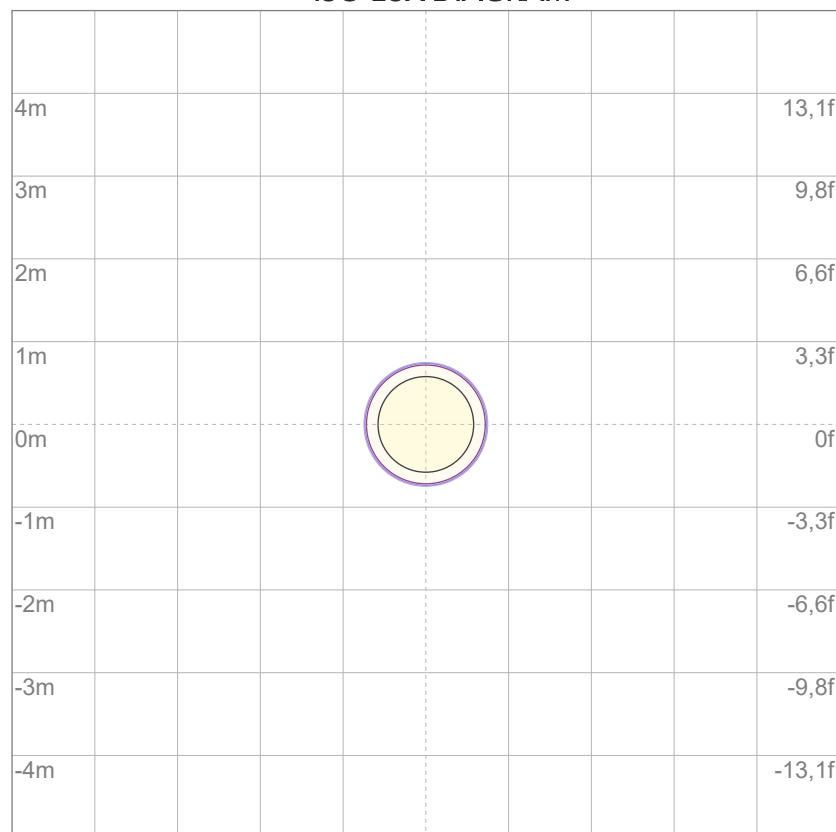
10%	3725 cd
20%	7451 cd
30%	11176 cd
40%	14902 cd
50%	18627 cd
60%	22353 cd
70%	26078 cd
80%	29803 cd

Conditions:

Number of c-planes: 2

Candela at center: 37254 cd

ISO LUX DIAGRAM



3%	11,2 lx
5%	18,6 lx
10%	37,3 lx
30%	112 lx
50%	186 lx

Conditions:

Number of c-planes: 2

Lux at center: 373 lx

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



Total lumen output:

372 lm

Peak candela output:

37490 cd

Light quality:

CRI: 83,3

Color temperature:

6003 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 8Deg

Target:

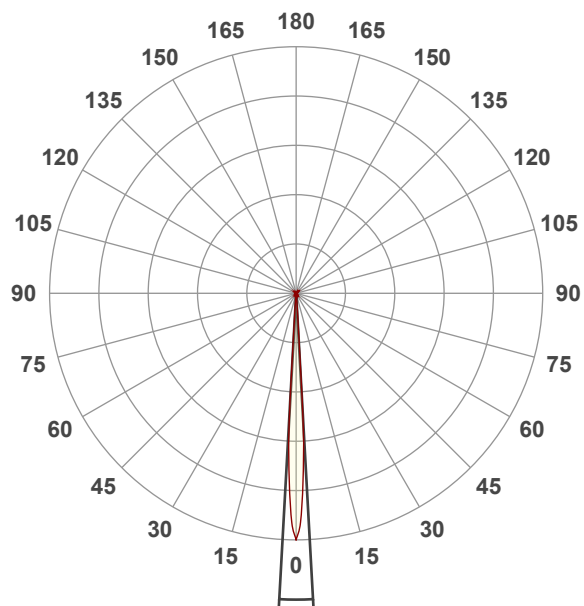
6000K

Operator:

Giuseppe della Peruta

Date and time:

30/07/2025 11:53:44

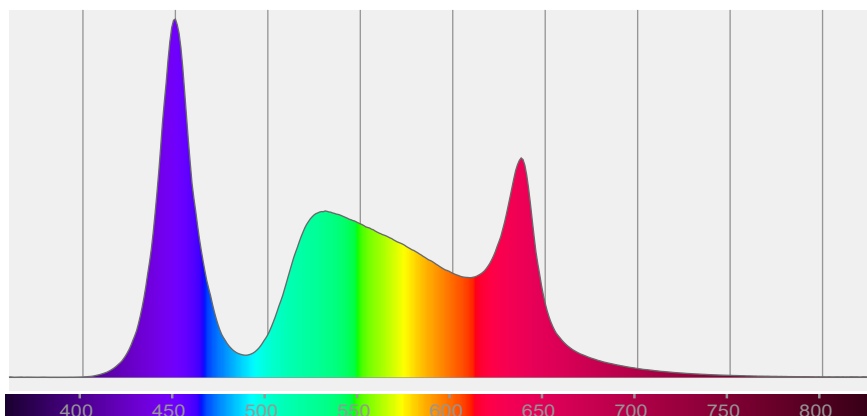


Beam angle 50%: 6,3°

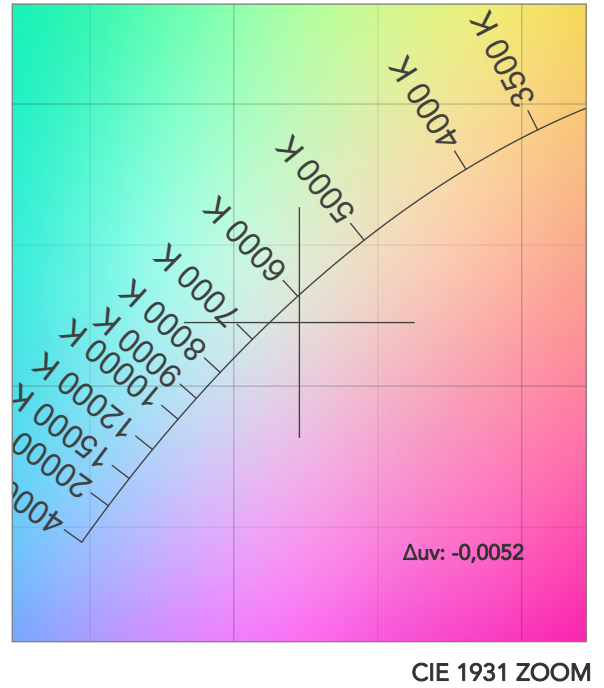
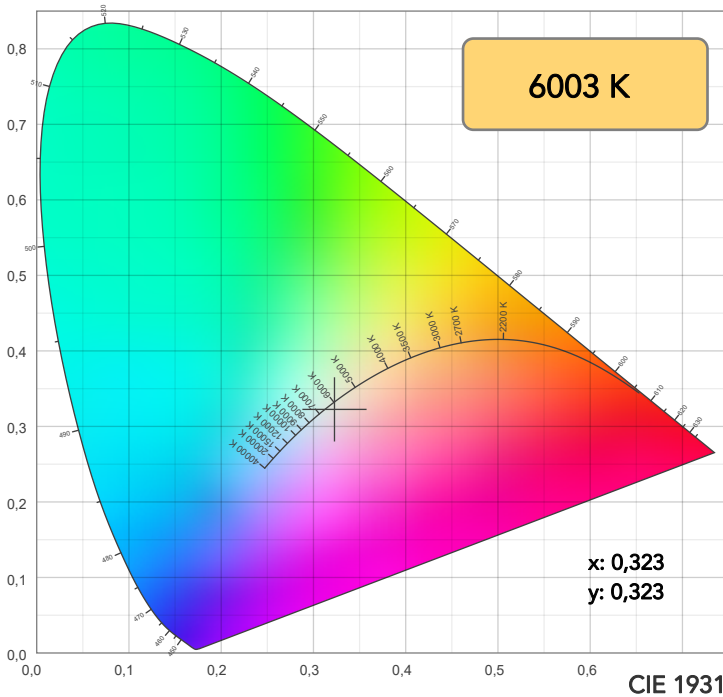
Field angle 10%: 8,1°

Cut off angle 2.5%: 9,5°

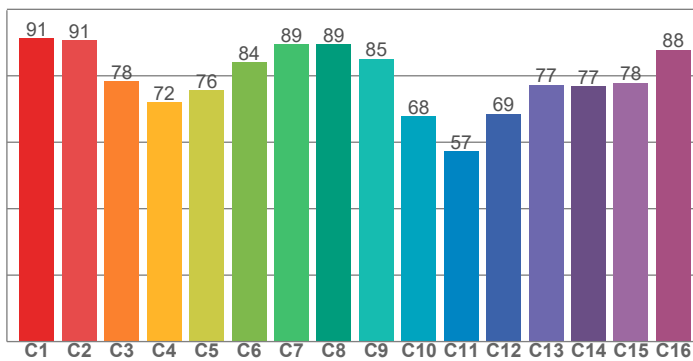
Spectra



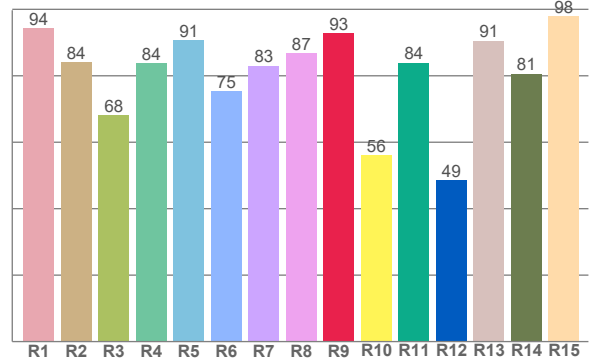
COLOR DETAILS



TM30: 79,1



CRI: 83,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,4	84,2	68,0	83,8	90,6	75,4	83,0	86,8	92,8	56,2	83,9	48,6	90,6	80,7	98,0

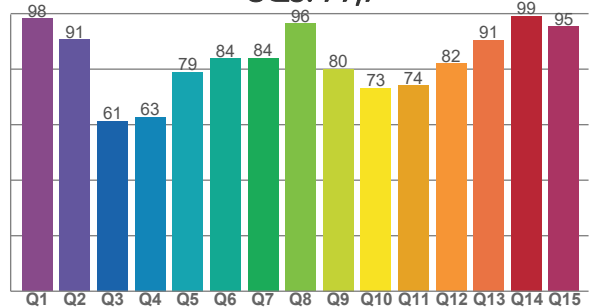
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,4	90,6	78,3	72,0	75,6	84,0	89,4	89,5	85,1	67,9	57,3	68,5	77,3	76,8	77,8	87,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,3	90,7	61,2	62,7	79,0	83,8	84,0	96,4	80,0	73,3	74,2	82,0	90,5	99,2	95,3

CQS: 79,7



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6003 K	83,3	92,8	79,1	105,9	79,7	73	0,323	0,323	-0,0052

TM30 DETAILS

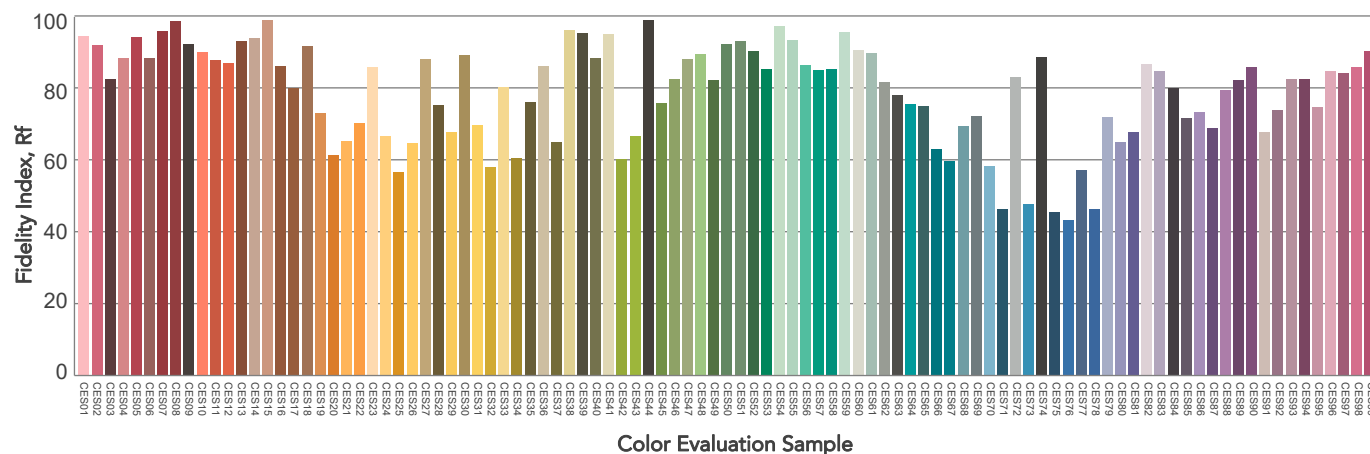
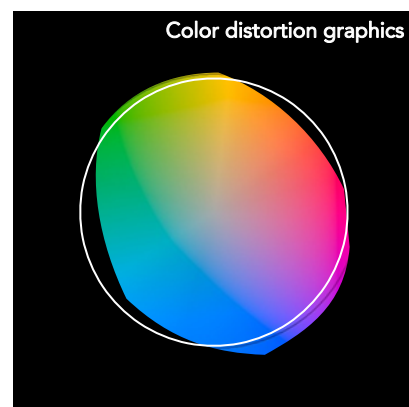
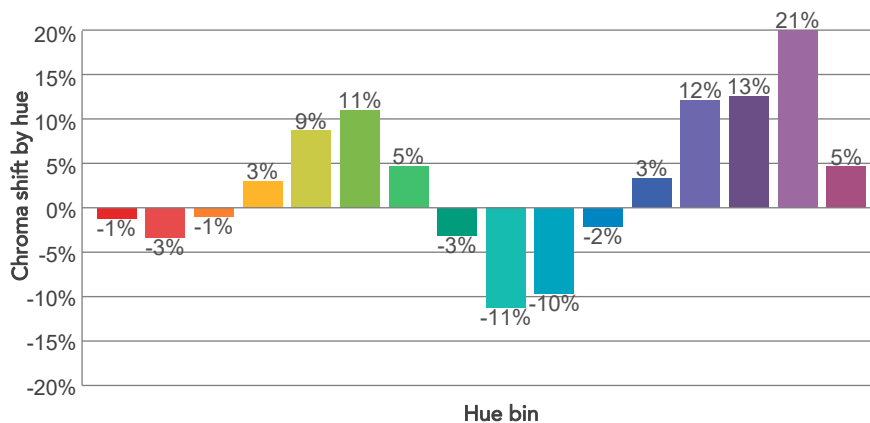
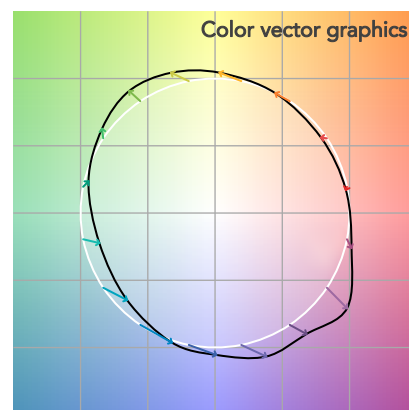
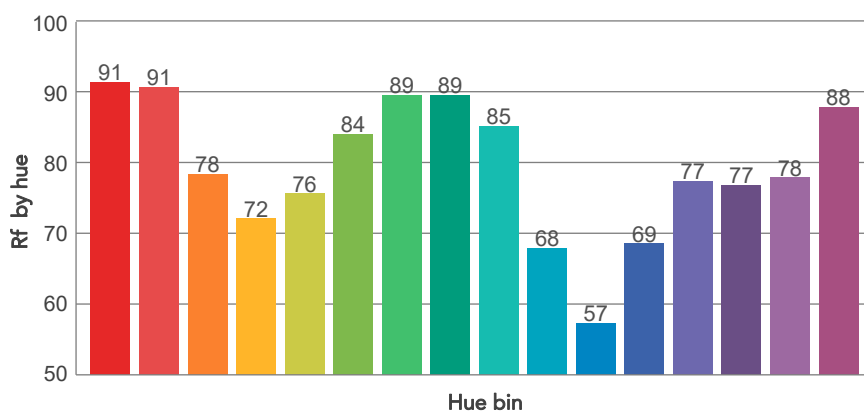
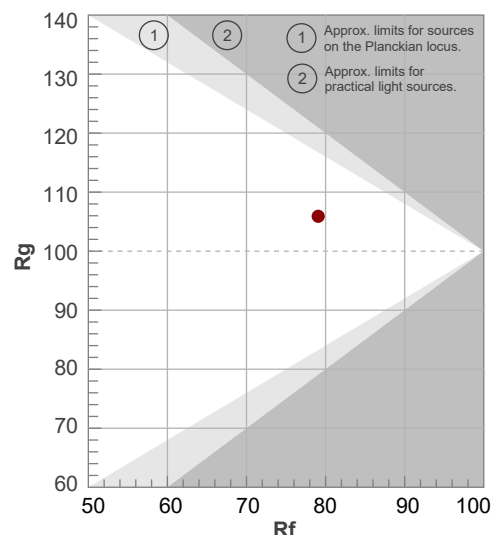
Rf 79,1

Fidelity index Rf

Rg 105,9

Gammut index

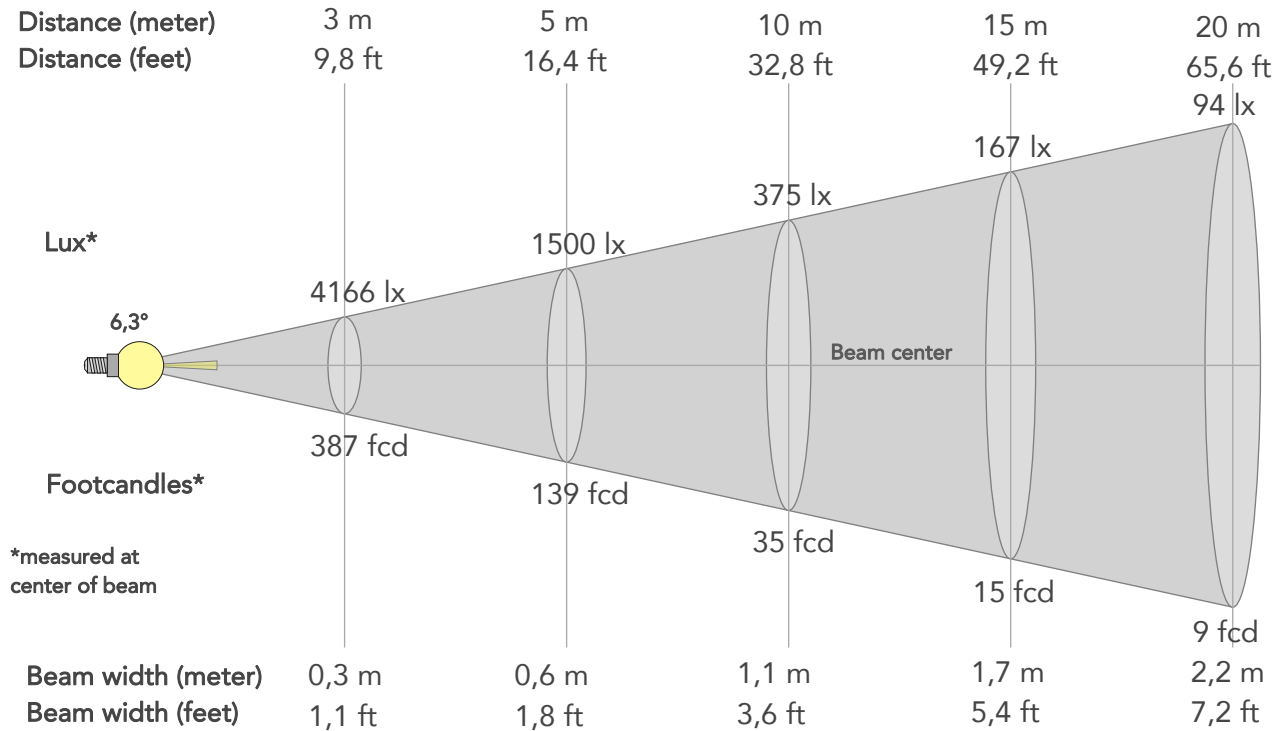
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-1%	-2%
2	91	-3%	3%
3	78	-1%	12%
4	72	3%	17%
5	76	9%	12%
6	84	11%	3%
7	89	5%	-5%
8	89	-3%	-5%
9	85	-11%	5%
10	68	-10%	17%
11	57	-2%	27%
12	69	3%	22%
13	77	12%	17%
14	77	13%	7%
15	78	21%	-4%
16	88	5%	-6%



BEAM DETAILS



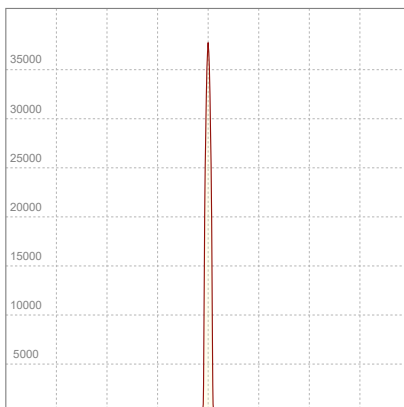
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	8,1°	9,5°	94,8%	93,6%



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	37490lx	9372lx	4166lx	2343lx	1500lx	666lx	375lx	167lx	94lx	60lx	42lx	23lx	15lx
Footcand.	3483fcd	871fcd	387fcd	218fcd	139fcd	62fcd	35fcd	15fcd	9fcd	6fcd	4fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,6ft	5,4ft	7,2ft	9ft	10,9ft	14,5ft	18,1ft

LINEAR DISTRIBUTION DIAGRAM

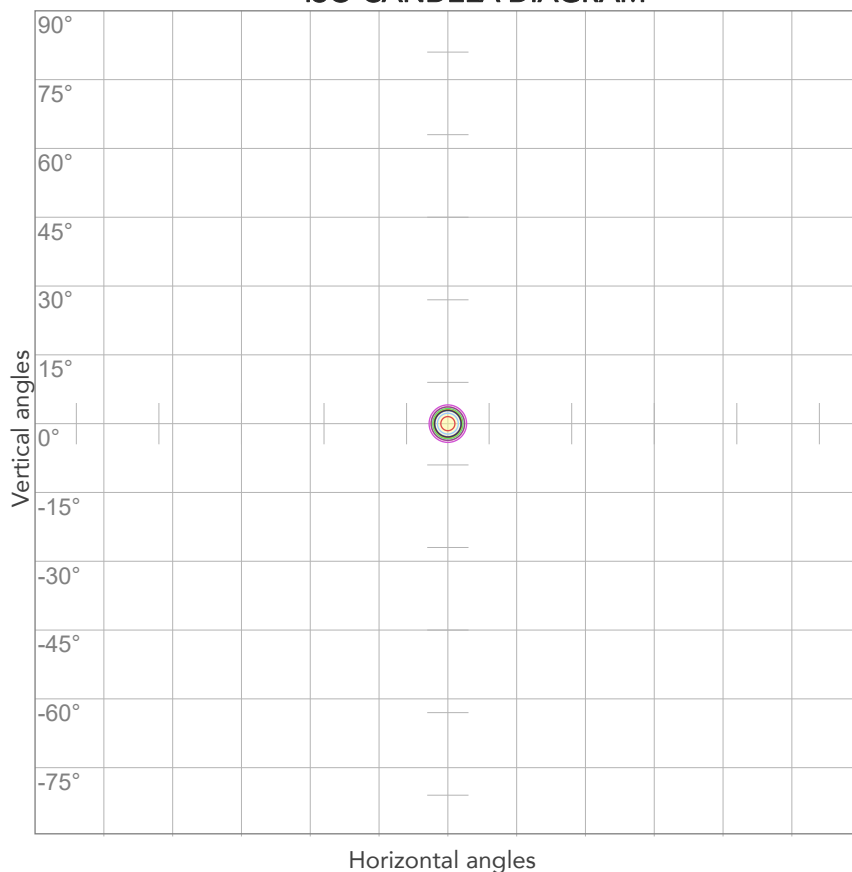


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,179A	30,6W	0,74	12lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



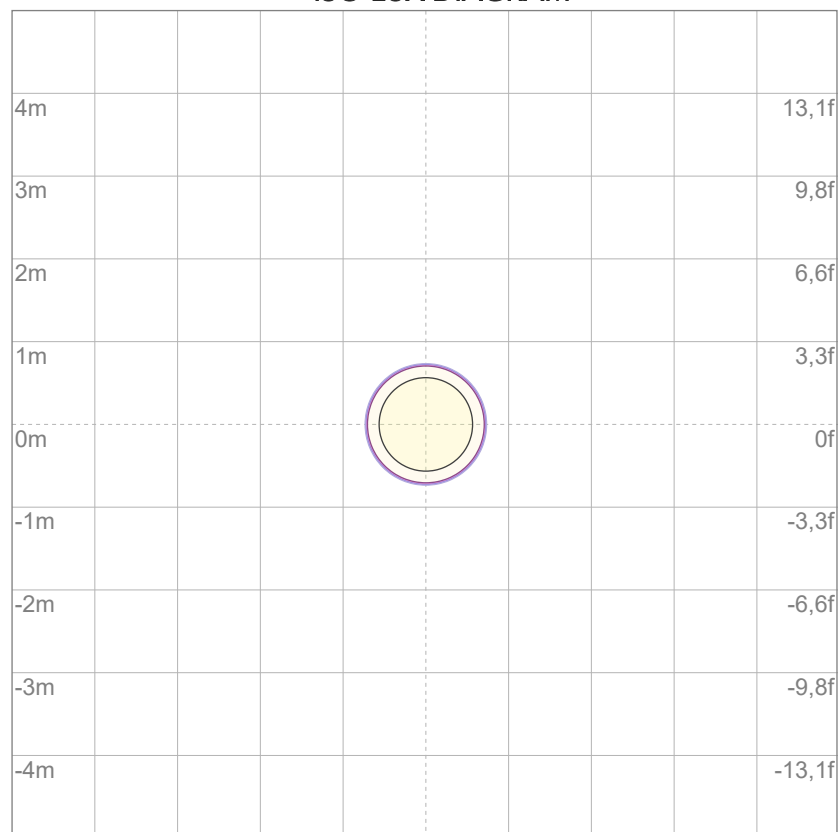
10%	3749 cd
20%	7498 cd
30%	11247 cd
40%	14996 cd
50%	18745 cd
60%	22494 cd
70%	26243 cd
80%	29992 cd

Conditions:

Number of c-planes: 2

Candela at center: 37490 cd

ISO LUX DIAGRAM



3%	11,2 lx
5%	18,7 lx
10%	37,5 lx
30%	112 lx
50%	187 lx

Conditions:

Number of c-planes: 2

Lux at center: 375 lx

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