

Photometric Test Report



EclDisplay XBFC

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

PROFILE LENS 36° HD

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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:

644 lm

Peak candela output:

3036 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

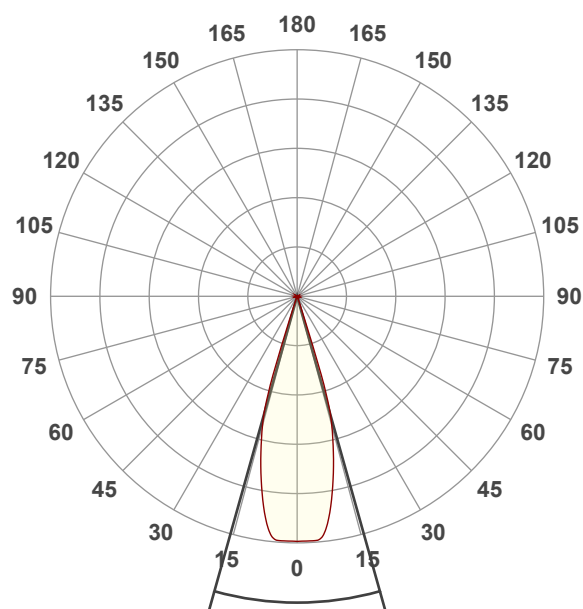
Full On

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 10:28:21

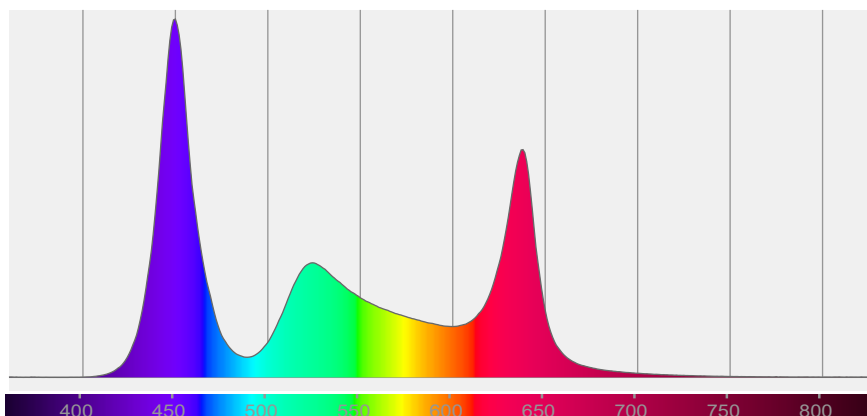


Beam angle 50%: 31,3°

Field angle 10%: 36,1°

Cut off angle 2.5%: 37,8°

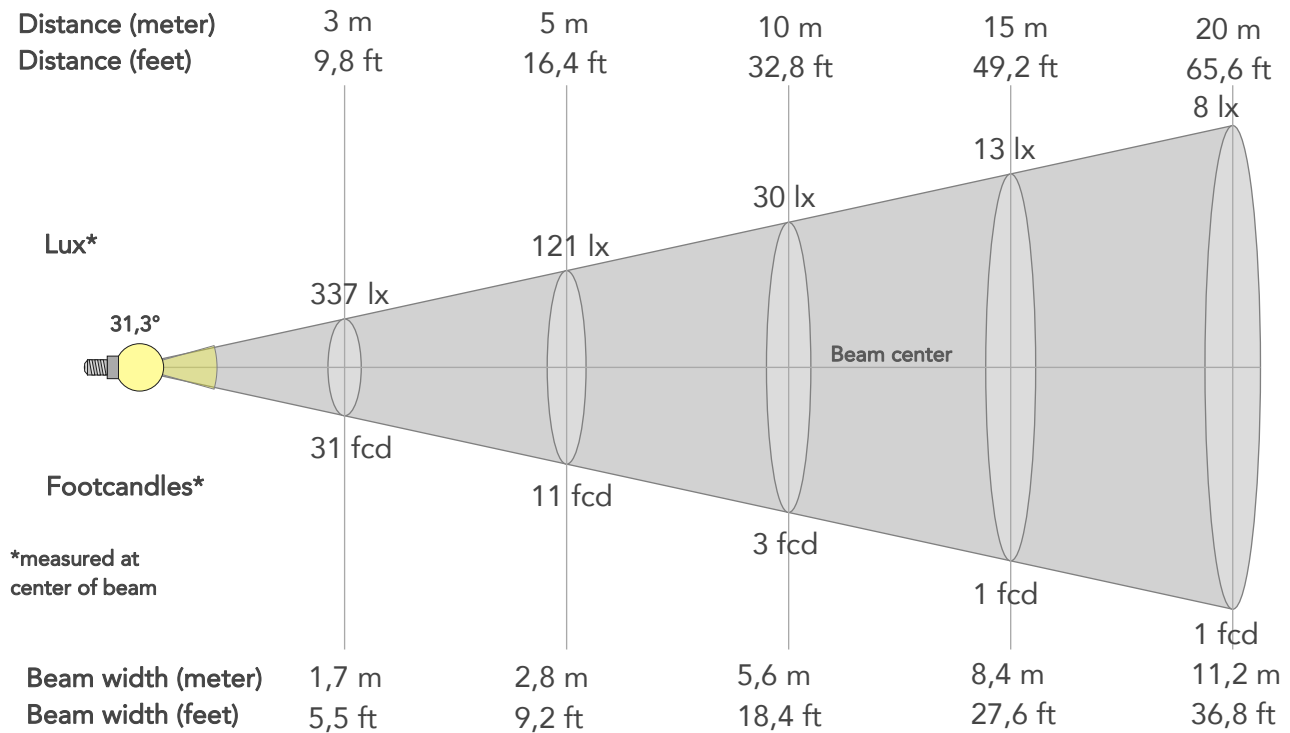
Spectra



BEAM DETAILS



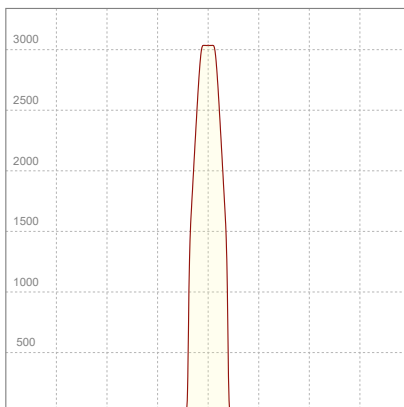
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,3°	36,1°	37,8°	99,4%	99,2%



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	3036lx	759lx	337lx	190lx	121lx	54lx	30lx	13lx	8lx	5lx	3lx	2lx	1lx
Footcand.	282fcd	71fcd	31fcd	18fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,6m	8,4m	11,2m	14m	16,8m	22,4m	28,1m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,2ft	13,8ft	18,4ft	27,6ft	36,8ft	46ft	55,2ft	73,6ft	92ft

LINEAR DISTRIBUTION DIAGRAM

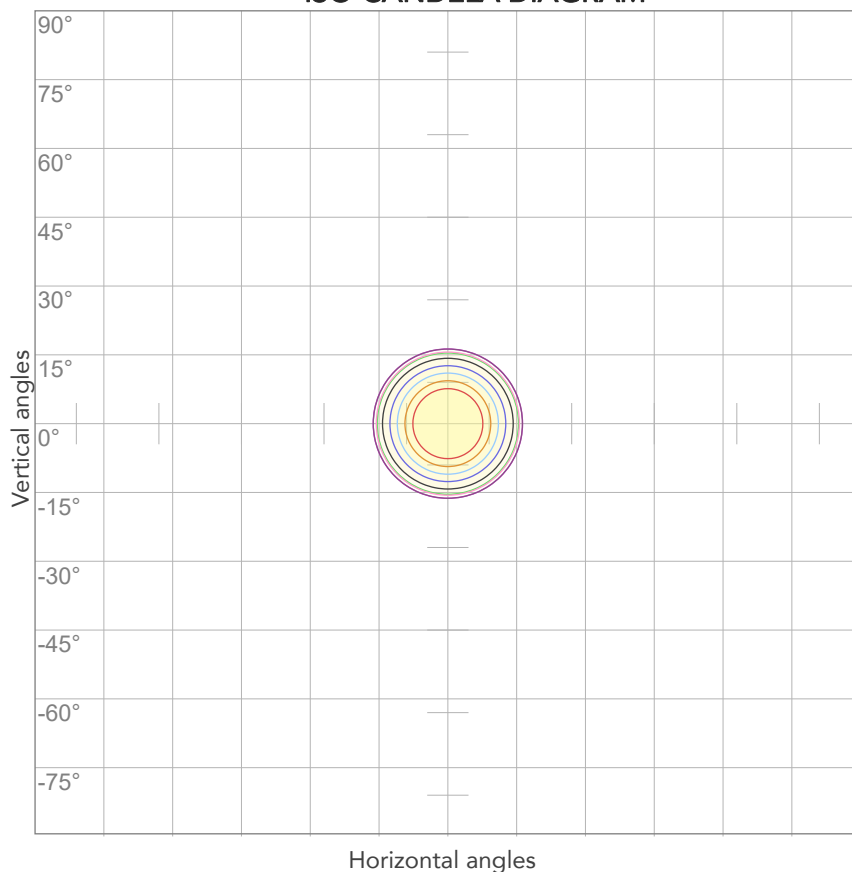


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,217A	46,1W	0,93	14lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



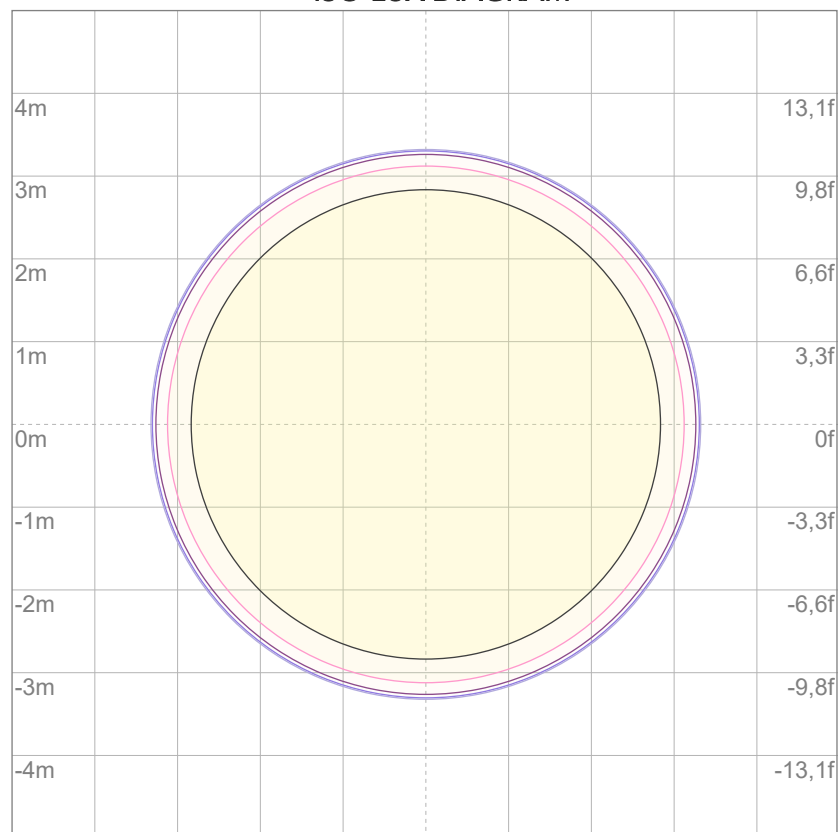
10%	304 cd
20%	607 cd
30%	911 cd
40%	1215 cd
50%	1518 cd
60%	1822 cd
70%	2125 cd
80%	2429 cd

Conditions:

Number of c-planes: 2

Candela at center: 3036 cd

ISO LUX DIAGRAM



3%	0,911 lx
5%	1,52 lx
10%	3,04 lx
30%	9,11 lx
50%	15,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 30,4 lx

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



Total lumen output:

104 lm

Peak candela output:

476 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

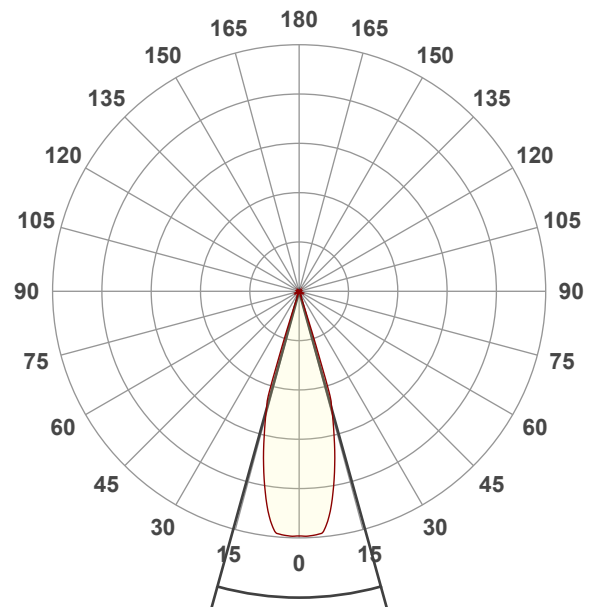
Red

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 12:31:54

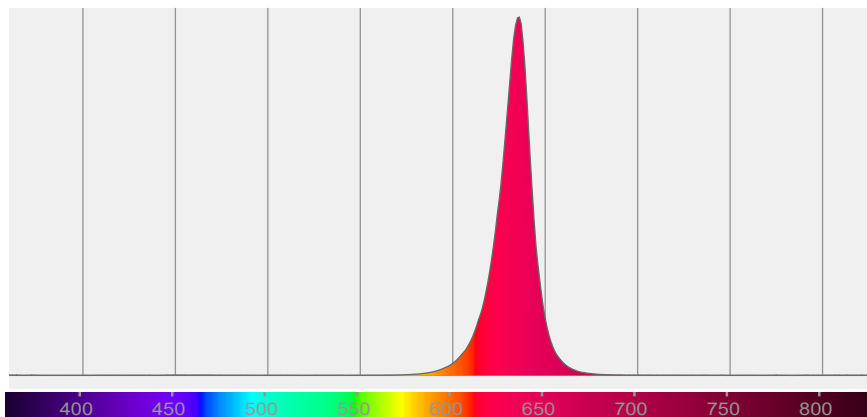


Beam angle 50%: 30,9°

Field angle 10%: 36°

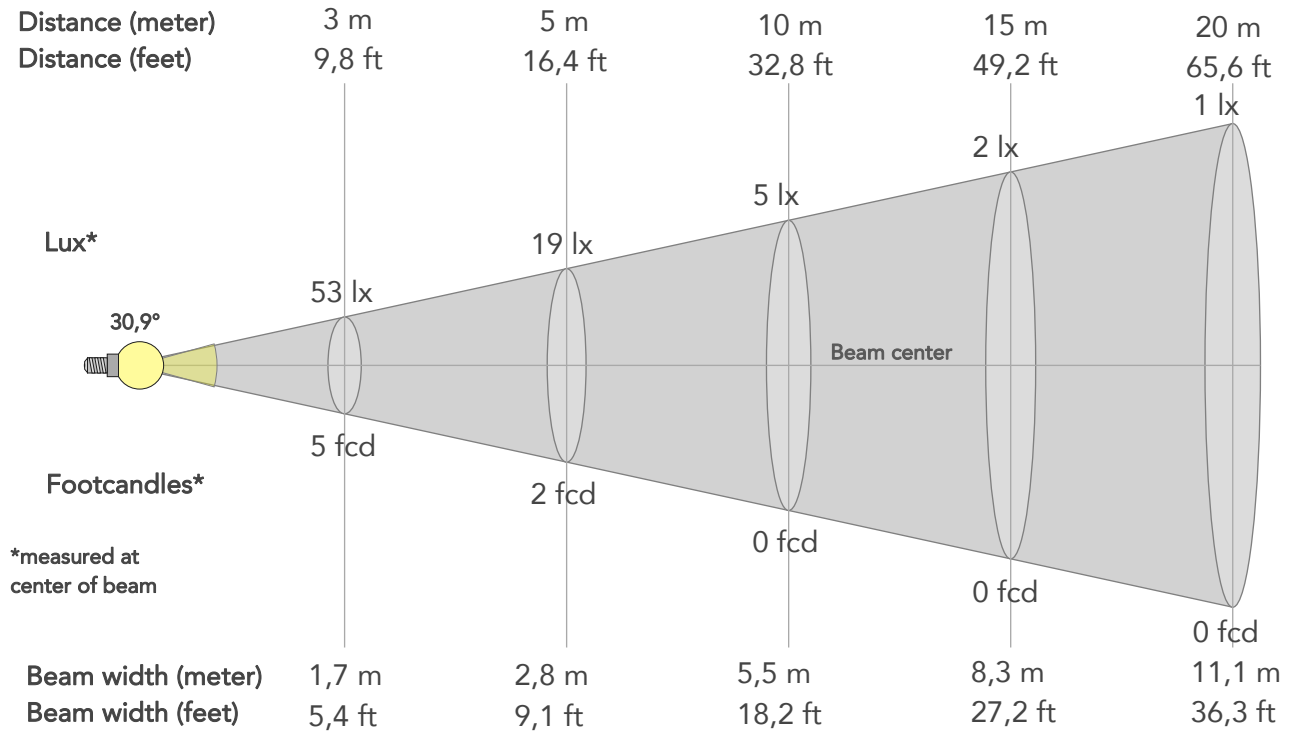
Cut off angle 2.5%: 36,9°

Spectra



BEAM DETAILS

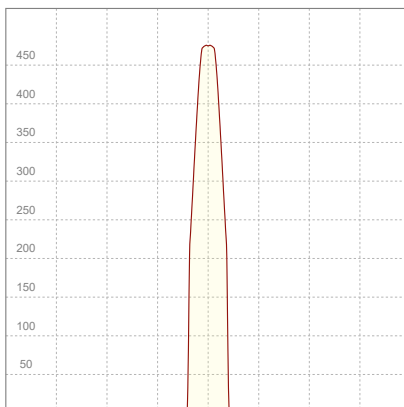
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,9°	36°	36,9°	95,6%	94,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	475lx	119lx	53lx	30lx	19lx	8lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	44fcd	11fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,2m	2,8m	4,2m	5,5m	8,3m	11,1m	13,8m	16,6m	22,1m	27,7m
Beam wid.	1,8ft	3,7ft	5,4ft	7,3ft	9,1ft	13,6ft	18,2ft	27,2ft	36,3ft	45,4ft	54,5ft	72,6ft	90,8ft

LINEAR DISTRIBUTION DIAGRAM

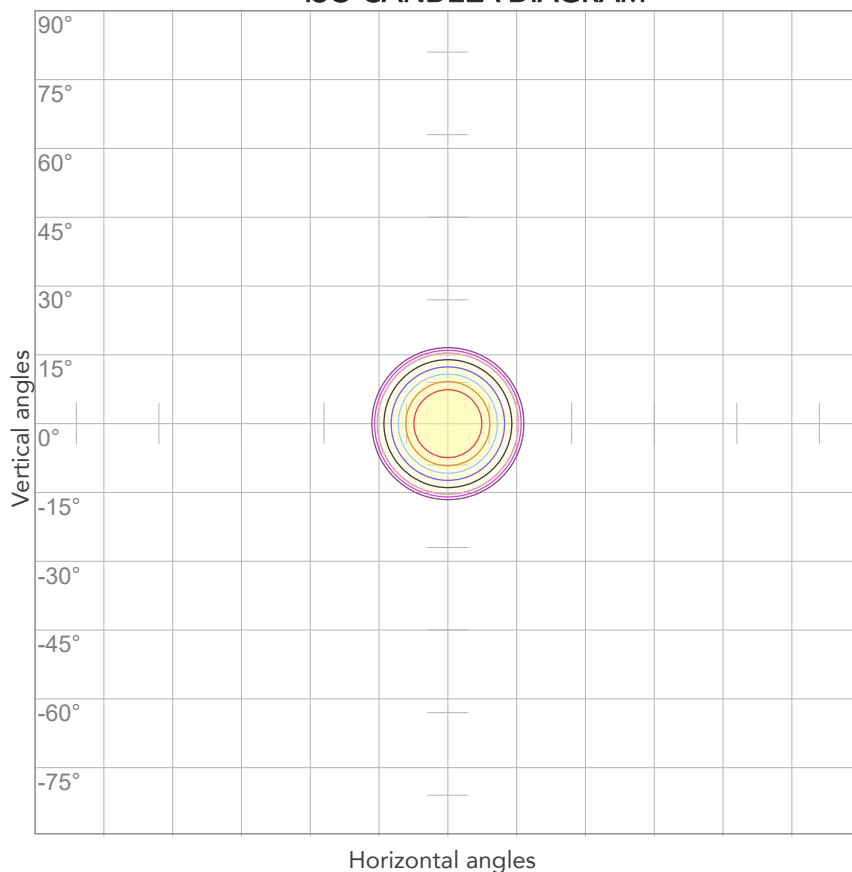


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,081A	9,7W	0,52	11lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



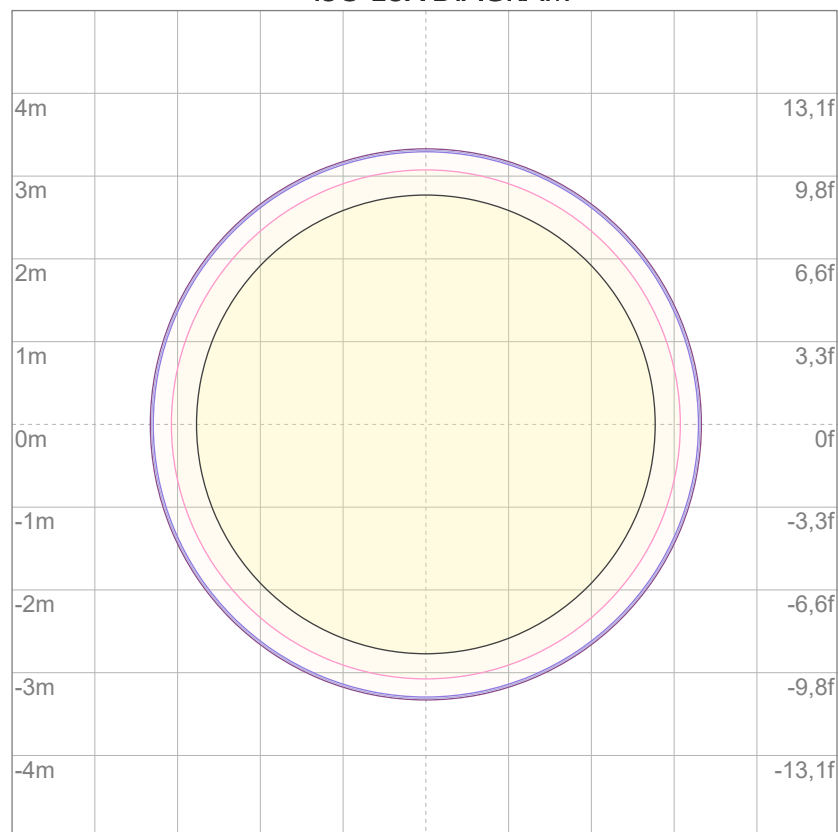
10%	48 cd
20%	95 cd
30%	143 cd
40%	190 cd
50%	238 cd
60%	285 cd
70%	333 cd
80%	380 cd

Conditions:

Number of c-planes: 2

Candela at center: 475 cd

ISO LUX DIAGRAM



3%	0,143 lx
5%	0,238 lx
10%	0,475 lx
30%	1,43 lx
50%	2,38 lx

Conditions:

Number of c-planes: 2

Lux at center: 4,75 lx

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



Total lumen output:

145 lm

Peak candela output:

682 cd

PRODUCT NAME:

ECLDISPLAYXB FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

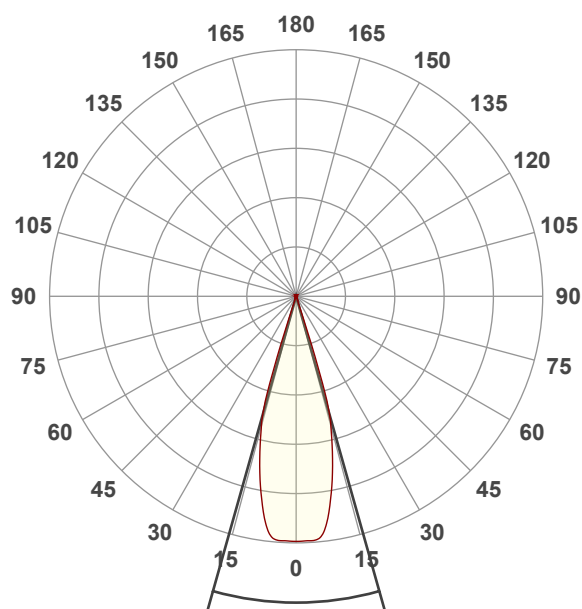
Green

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 12:48:22

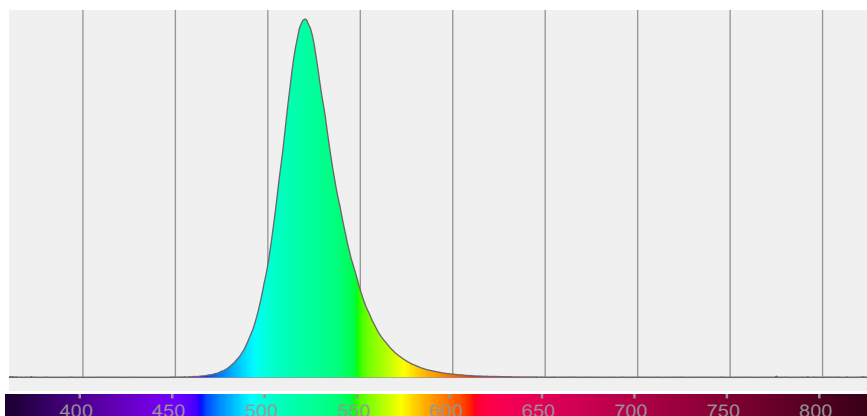


Beam angle 50%: 31,5°

Field angle 10%: 36,4°

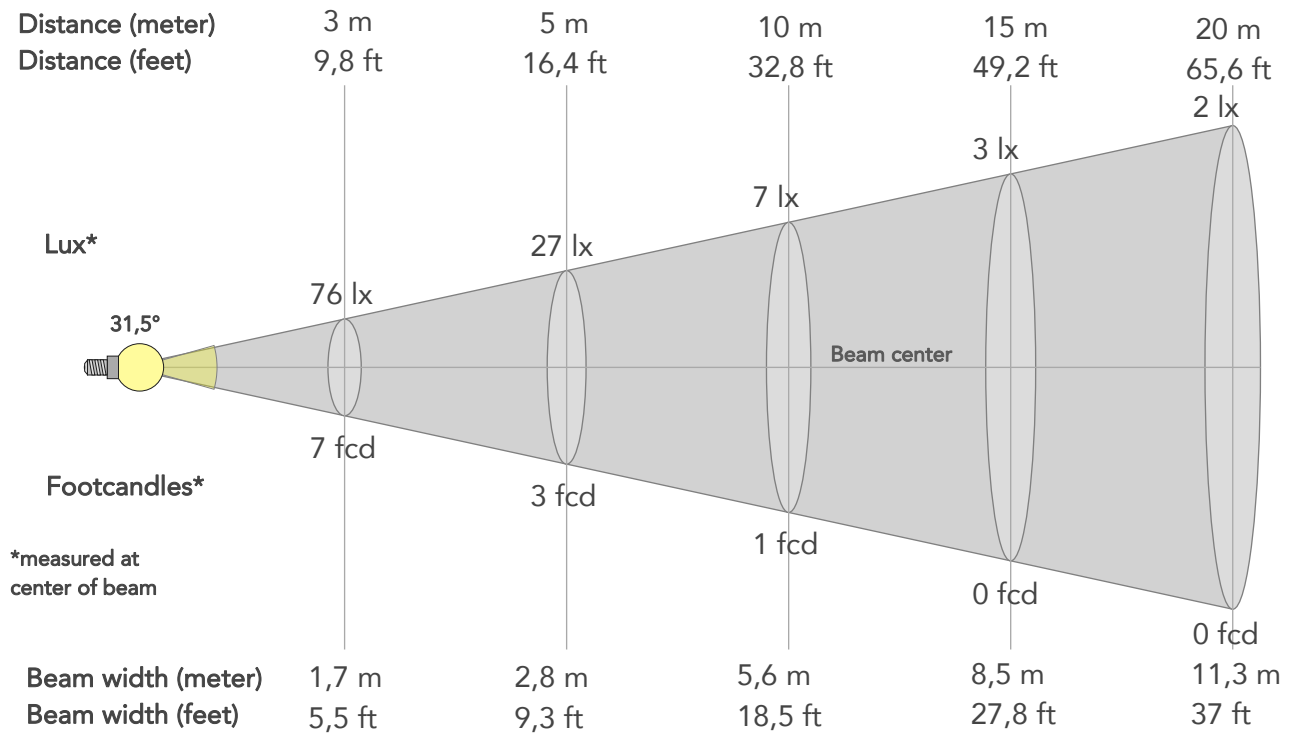
Cut off angle 2.5%: 37,1°

Spectra



BEAM DETAILS

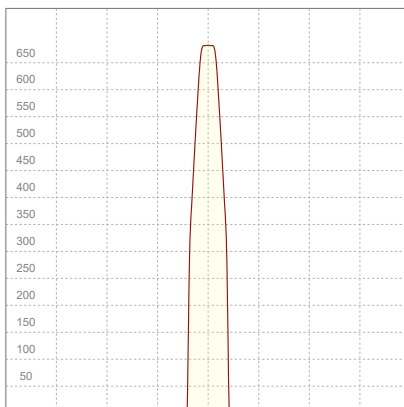
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,5°	36,4°	37,1°	99,1%	98,8%



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	682lx	171lx	76lx	43lx	27lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	63fcd	16fcd	7fcd	4fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,6m	8,5m	11,3m	14,1m	16,9m	22,6m	28,2m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,5ft	27,8ft	37ft	46,3ft	55,5ft	74ft	92,5ft

LINEAR DISTRIBUTION DIAGRAM

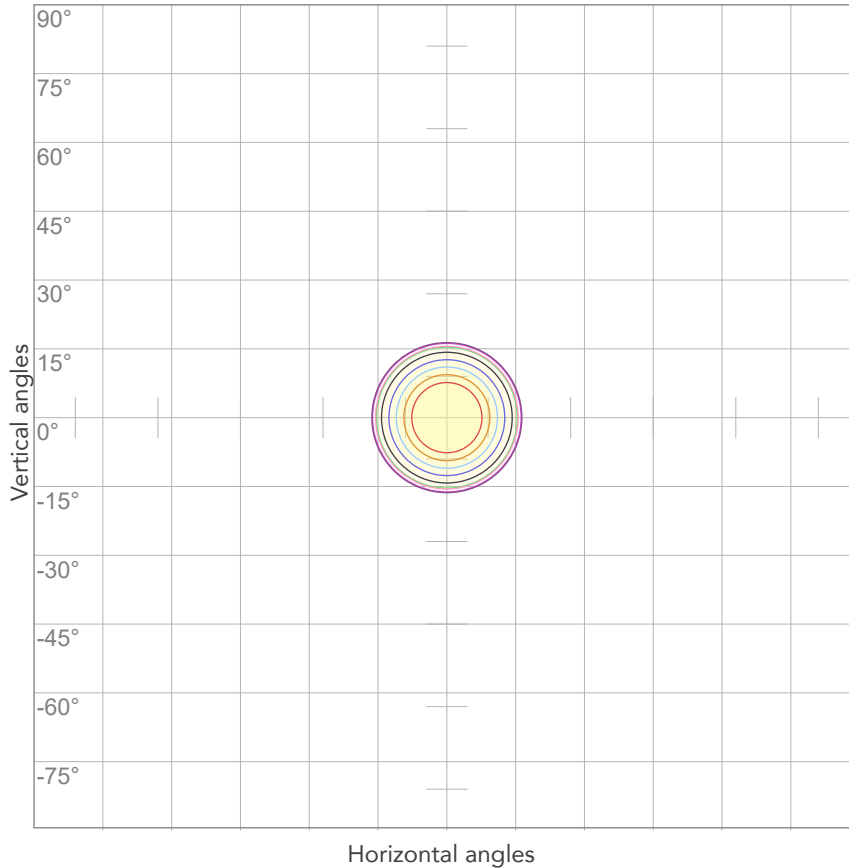


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,081A	10,4W	0,56	14lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



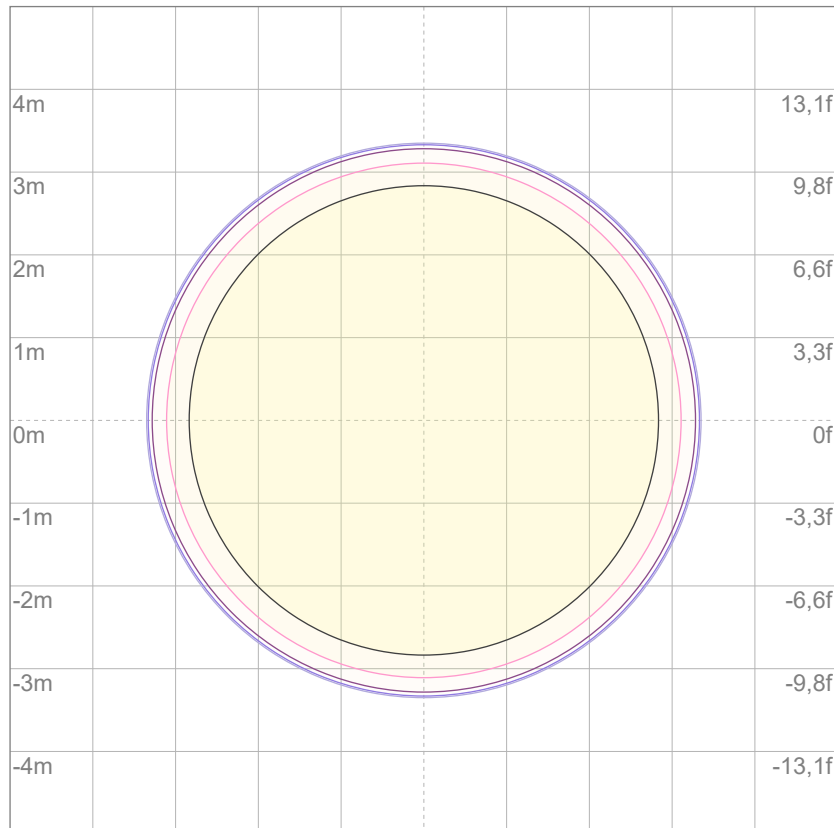
10%	68 cd
20%	136 cd
30%	205 cd
40%	273 cd
50%	341 cd
60%	409 cd
70%	478 cd
80%	546 cd

Conditions:

Number of c-planes: 2

Candela at center: 682 cd

ISO LUX DIAGRAM



3%	0,205 lx
5%	0,341 lx
10%	0,682 lx
30%	2,05 lx
50%	3,41 lx

Conditions:

Number of c-planes: 2

Lux at center: 6,82 lx

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



Total lumen output:

52,7 lm

Peak candela output:

201 cd

PRODUCT NAME:

ECLDISPLAYXB FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

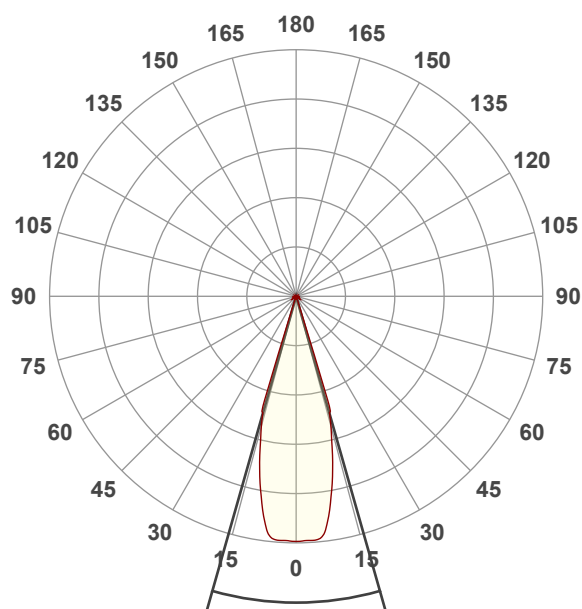
Blue

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 12:51:30

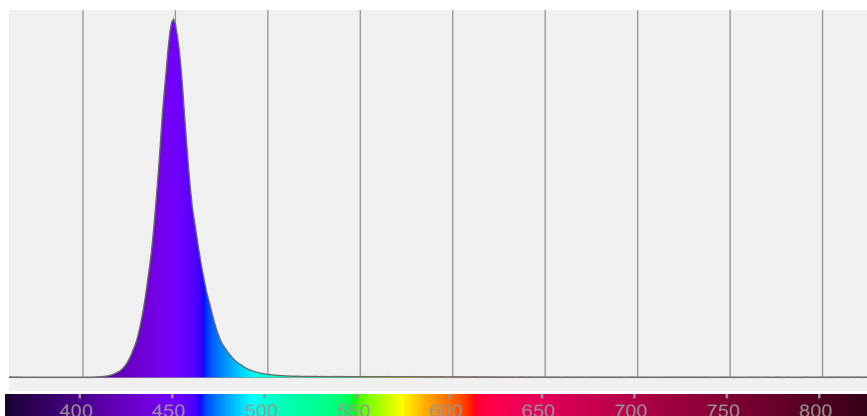


Beam angle 50%: 31,7°

Field angle 10%: 35,6°

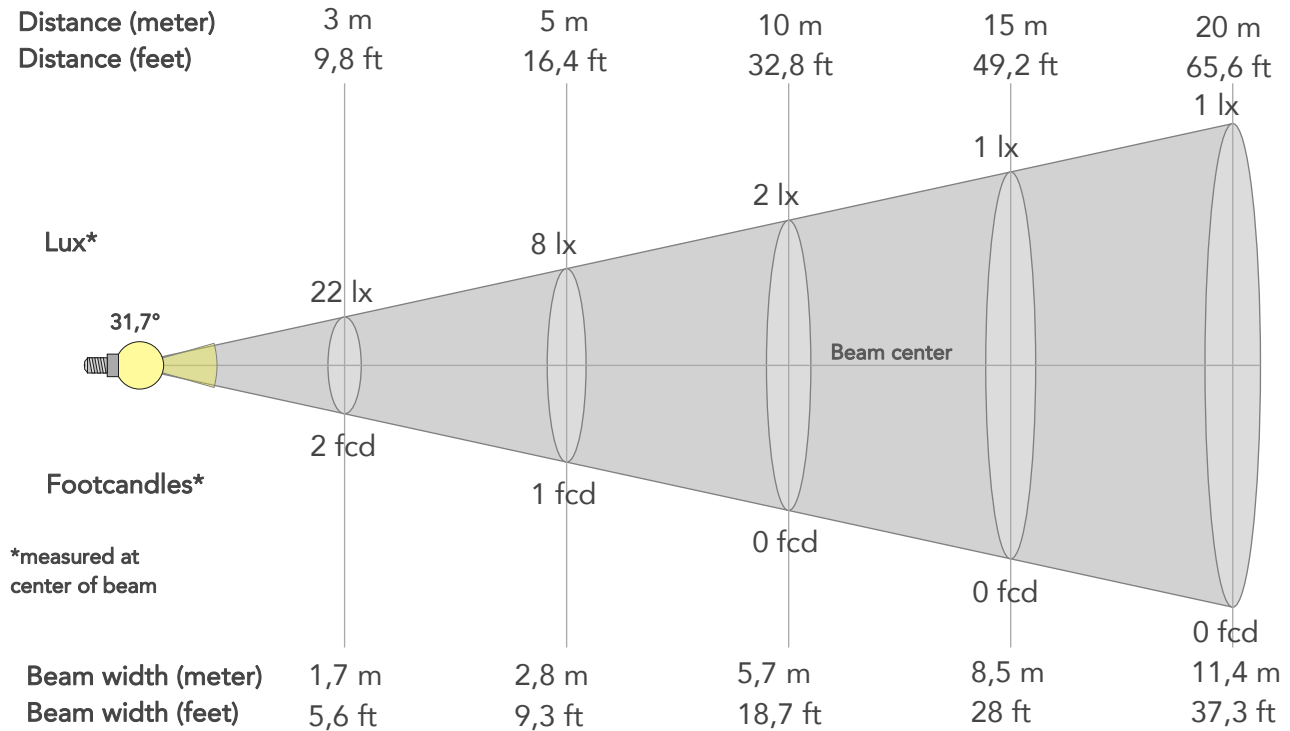
Cut off angle 2.5%: 37,3°

Spectra



BEAM DETAILS

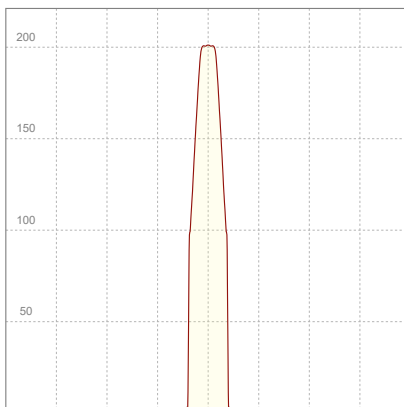
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,7°	35,6°	37,3°	86,9%	83,5%



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	201lx	50lx	22lx	13lx	8lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	19fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,3m	5,7m	8,5m	11,4m	14,2m	17,1m	22,7m	28,4m
Beam wid.	1,9ft	3,8ft	5,6ft	7,4ft	9,3ft	14ft	18,7ft	28ft	37,3ft	46,6ft	56ft	74,6ft	93,3ft

LINEAR DISTRIBUTION DIAGRAM

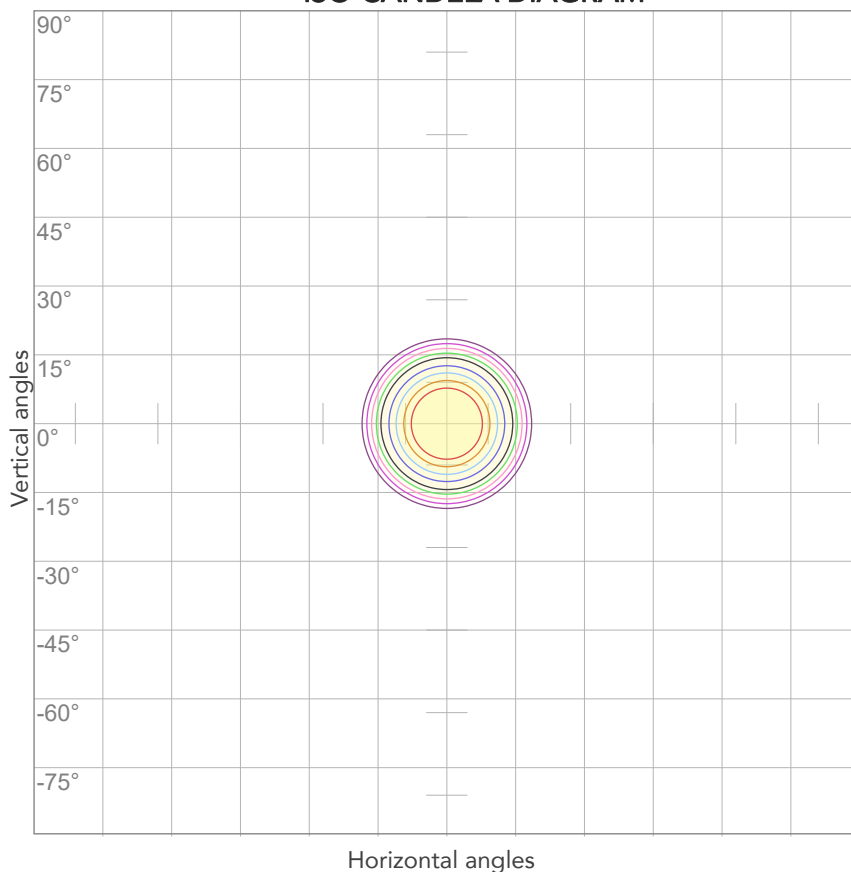


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,086A	11,4W	0,59	5lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



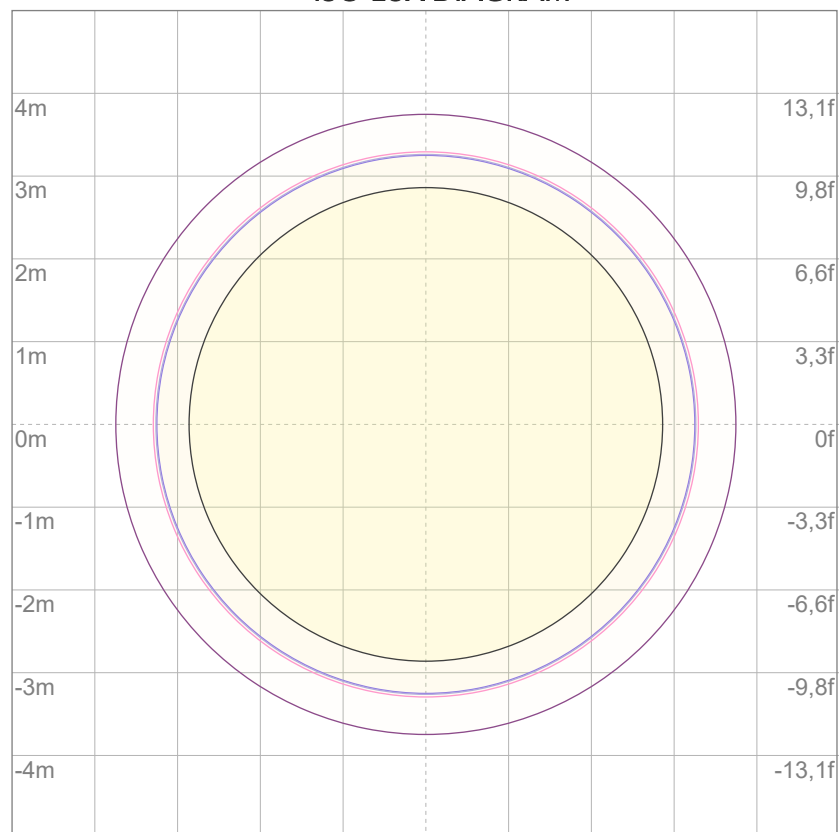
10%	20 cd
20%	40 cd
30%	60 cd
40%	80 cd
50%	101 cd
60%	121 cd
70%	141 cd
80%	161 cd

Conditions:

Number of c-planes: 2

Candela at center: 201 cd

ISO LUX DIAGRAM



3%	60,3m lx
5%	0,101 lx
10%	0,201 lx
30%	0,603 lx
50%	1,01 lx

Conditions:

Number of c-planes: 2

Lux at center: 2,01 lx

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



Total lumen output:

381 lm

Peak candela output:

1810 cd

PRODUCT NAME:

ECLDISPLAYXB FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

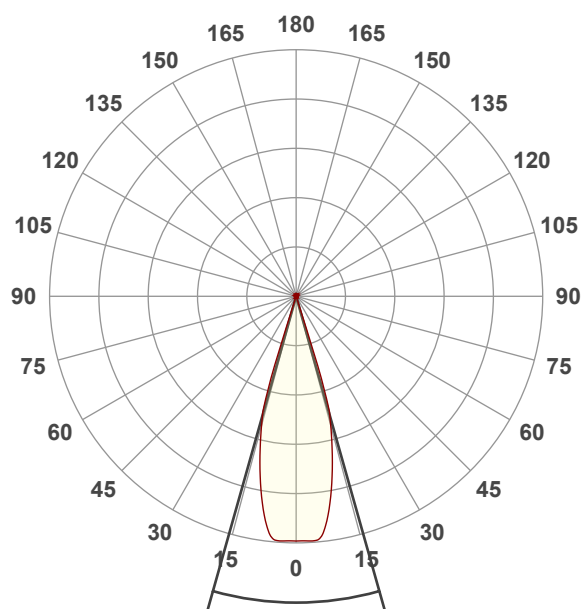
Lime

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 12:53:56

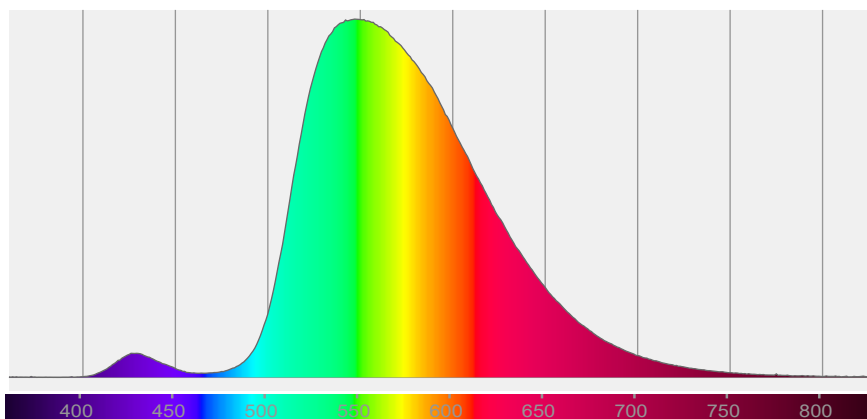


Beam angle 50%: 31,5°

Field angle 10%: 36°

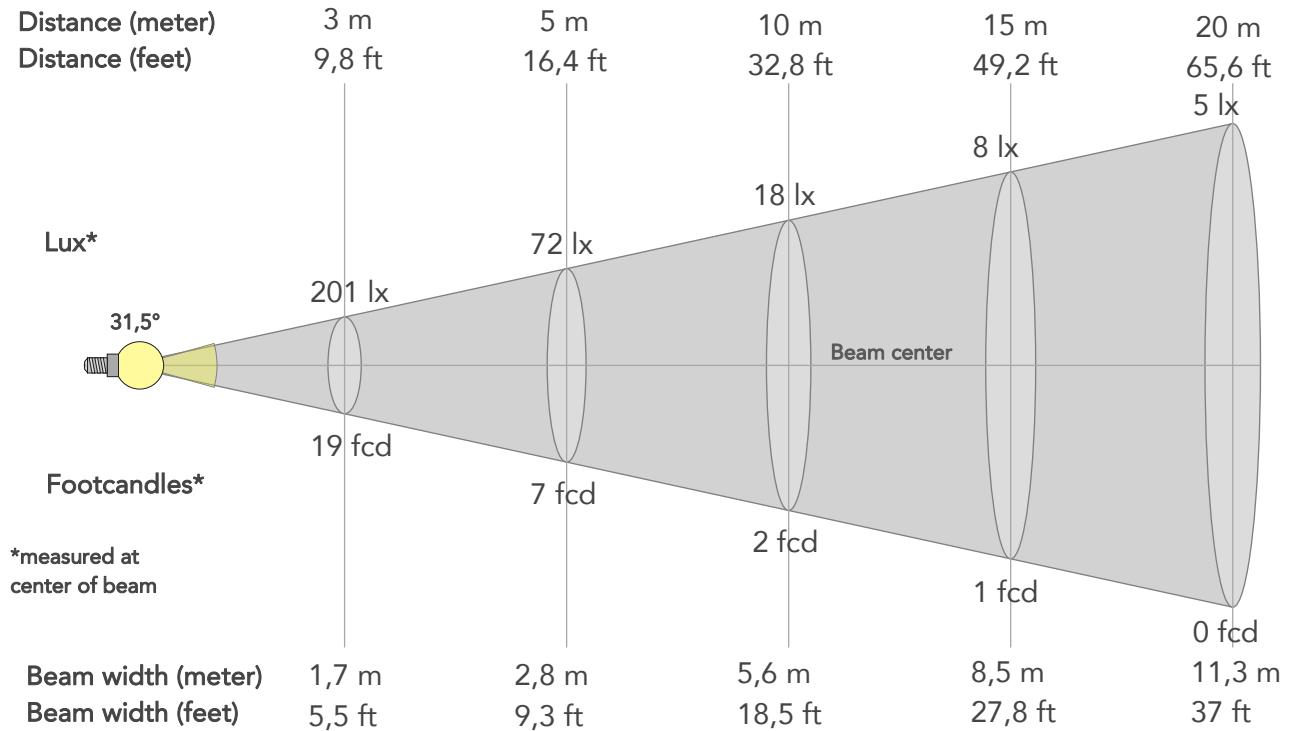
Cut off angle 2.5%: 36,5°

Spectra



BEAM DETAILS

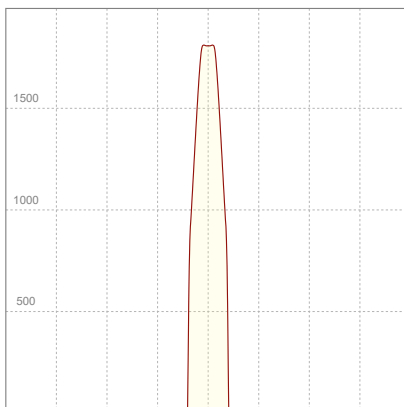
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,5°	36°	36,5°	99,2%	99,1%



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	1808lx	452lx	201lx	113lx	72lx	32lx	18lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	168fcd	42fcd	19fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,6m	8,5m	11,3m	14,1m	16,9m	22,6m	28,2m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,5ft	27,8ft	37ft	46,3ft	55,5ft	74,1ft	92,6ft

LINEAR DISTRIBUTION DIAGRAM

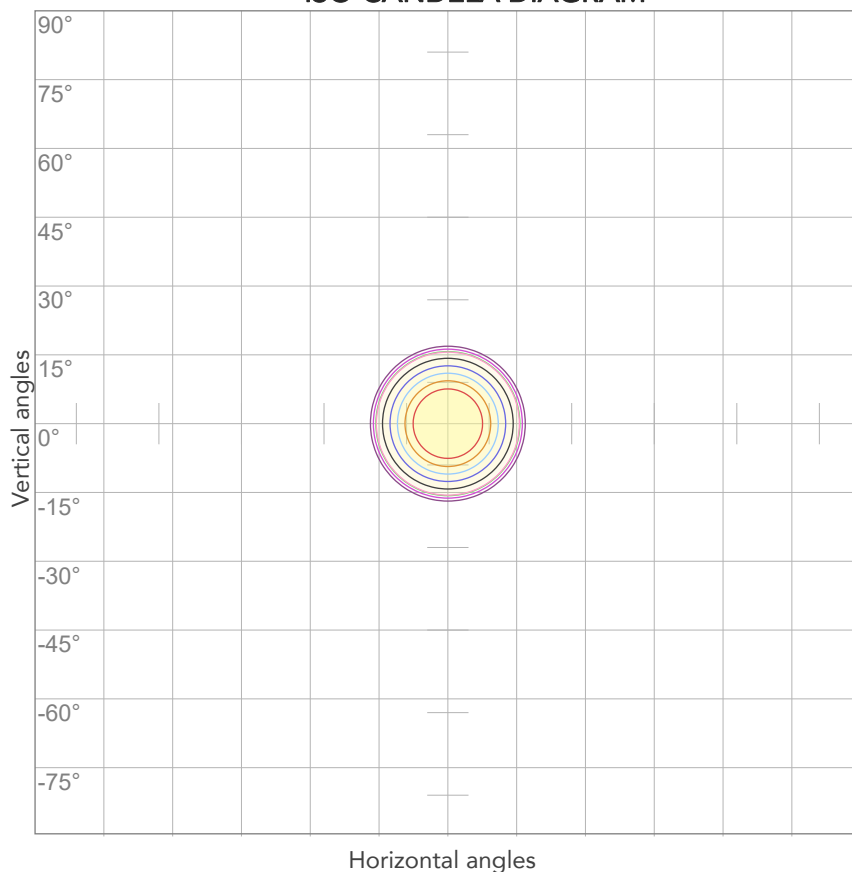


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,110A	19,7W	0,79	19lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



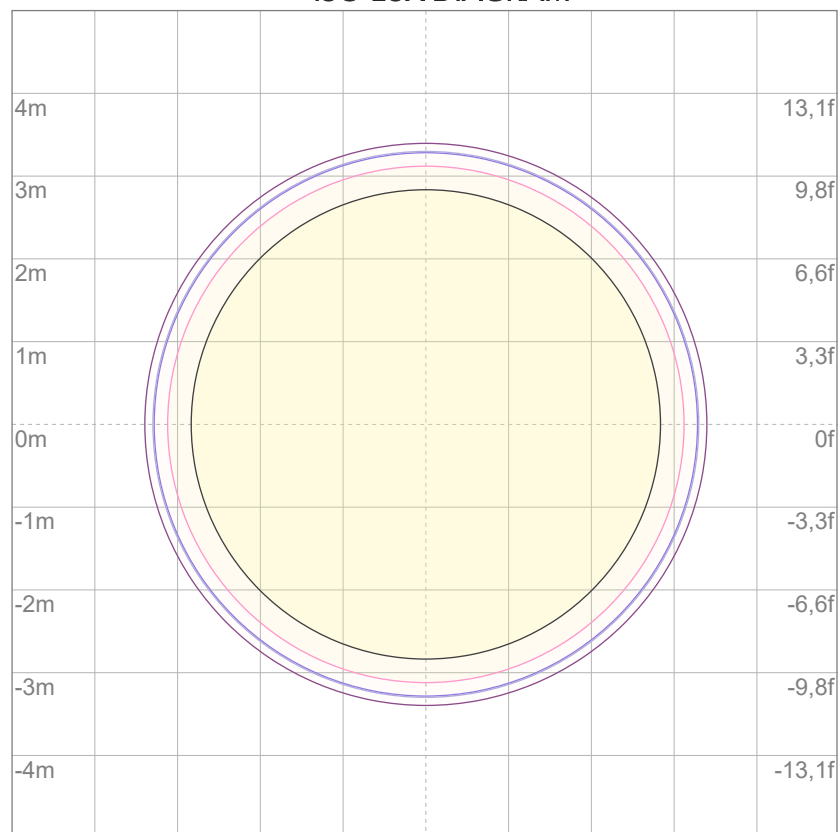
10%	181 cd
20%	362 cd
30%	542 cd
40%	723 cd
50%	904 cd
60%	1085 cd
70%	1265 cd
80%	1446 cd

Conditions:

Number of c-planes: 2

Candela at center: 1808 cd

ISO LUX DIAGRAM



3%	0,542 lx
5%	0,904 lx
10%	1,81 lx
30%	5,42 lx
50%	9,04 lx

Conditions:

Number of c-planes: 2

Lux at center: 18,1 lx

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



Total lumen output:

389 lm

Peak candela output:

1835 cd

Light quality:

CRI: 84,8

Color temperature:

2902 K

PRODUCT NAME:

ECLDISPLAYXB FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

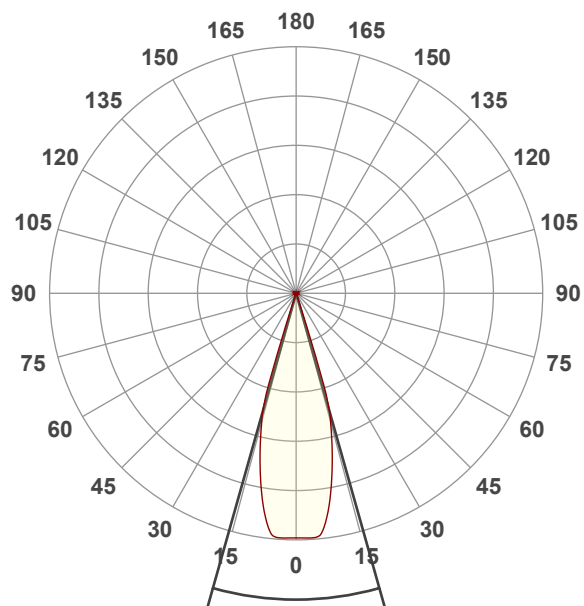
2800K

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 13:00:55

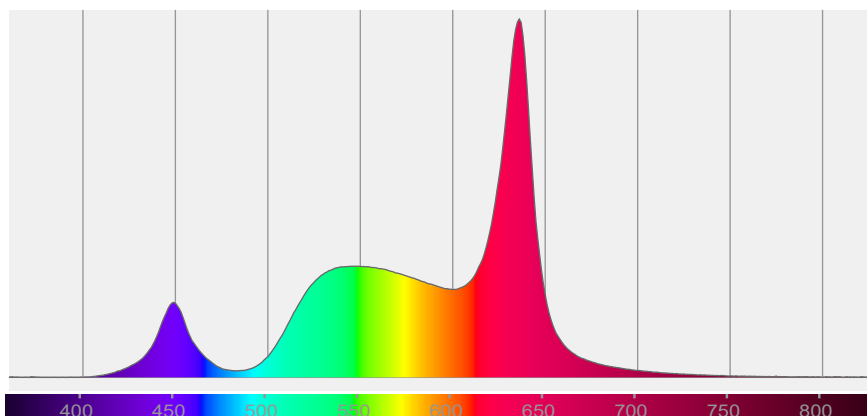


Beam angle 50%: 31,5°

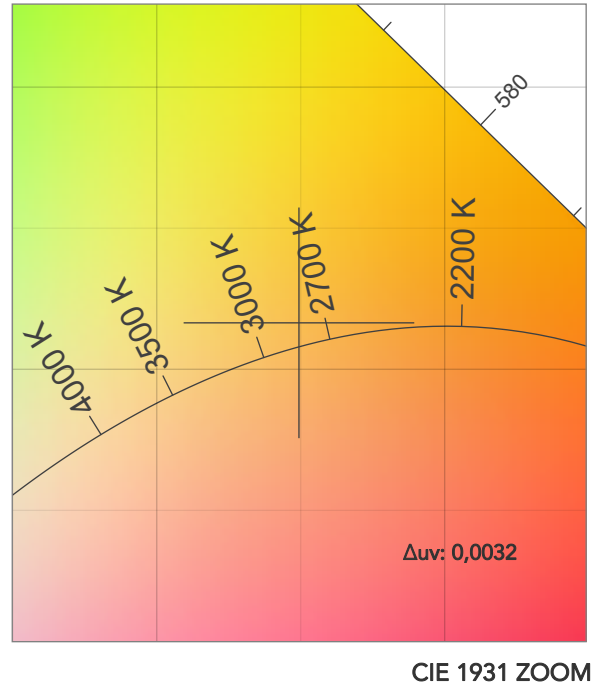
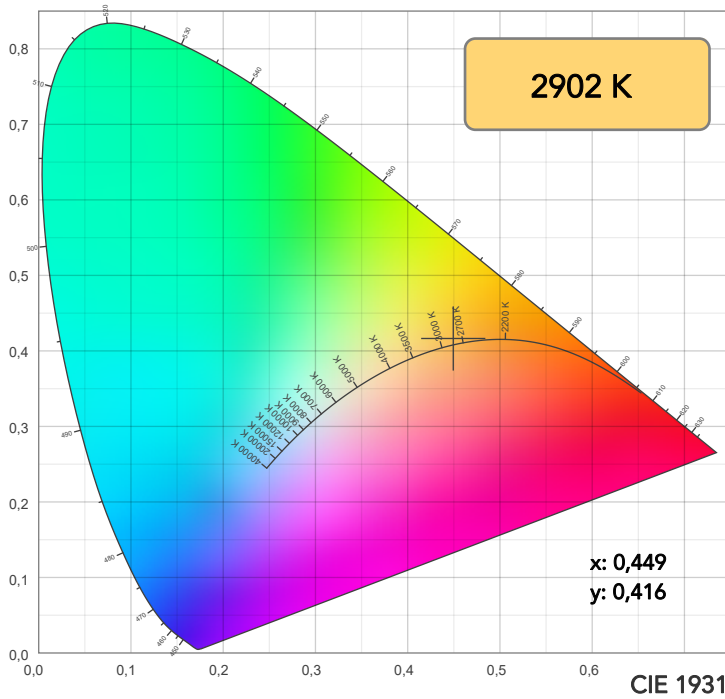
Field angle 10%: 36,2°

Cut off angle 2.5%: 37,3°

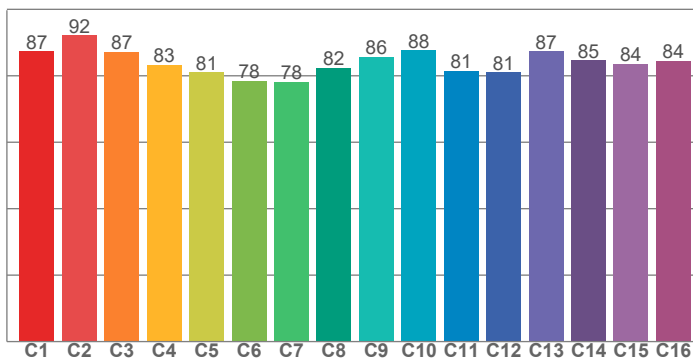
Spectra



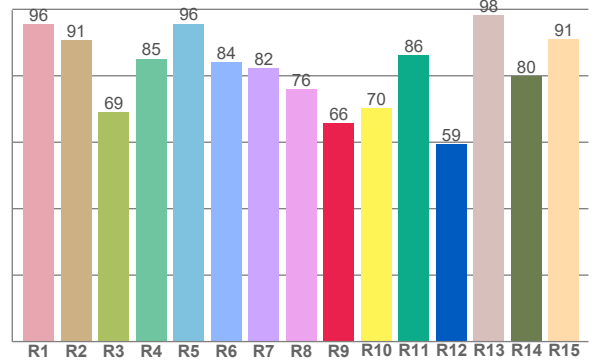
COLOR DETAILS



TM30: 84,6



CRI: 84,8 (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
95,6	90,7	69,1	85,1	95,7	84,1	82,3	76,0	65,7	70,3	86,1	59,3	98,3	79,8	91,1

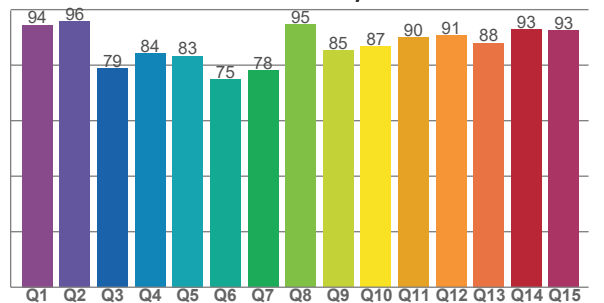
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,4	92,3	87,2	83,3	81,1	78,5	78,2	82,4	85,8	87,8	81,4	81,1	87,4	84,7	83,5	84,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,5	95,8	78,8	84,2	83,3	74,8	78,1	94,7	85,2	86,8	89,9	90,7	87,9	92,9	92,5

CQS: 85,6



COLOR PARAMETERS

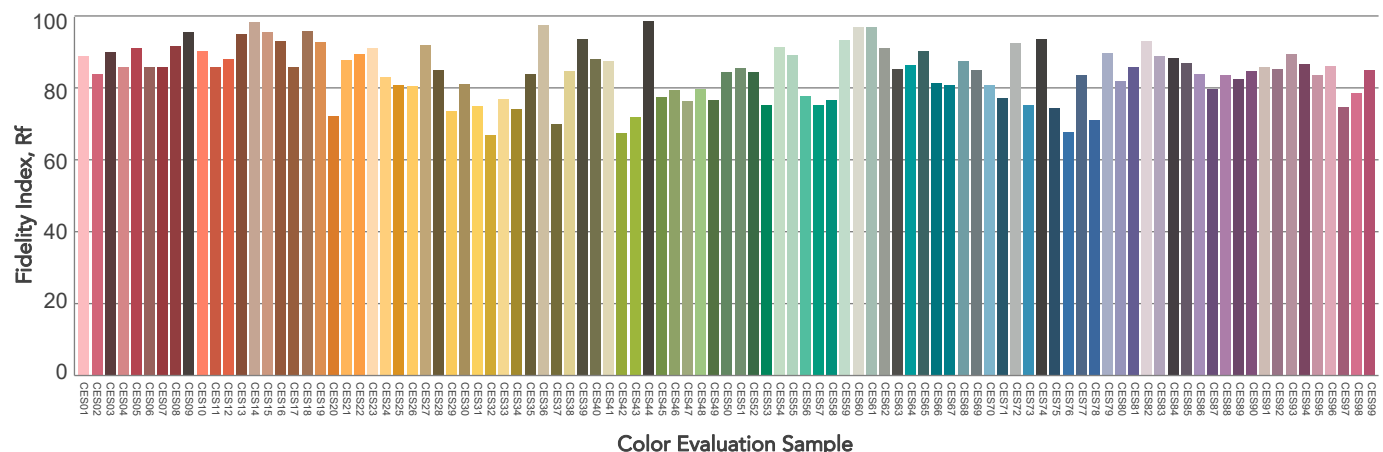
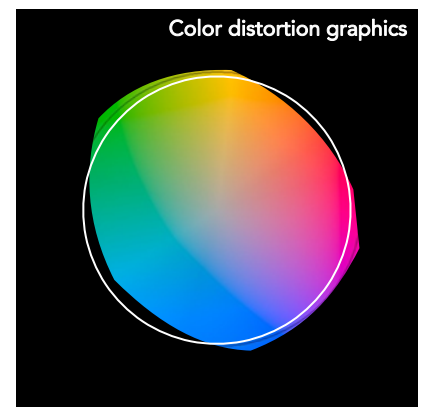
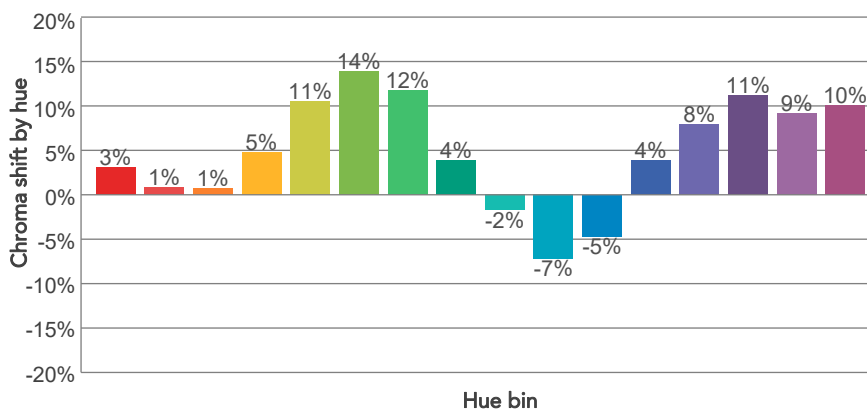
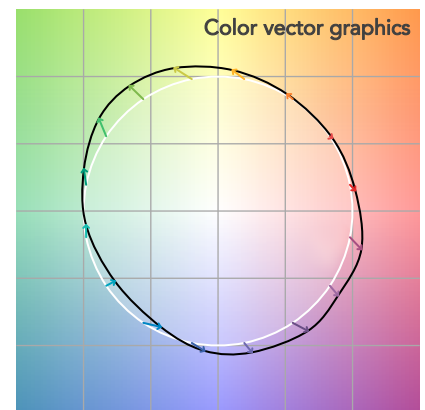
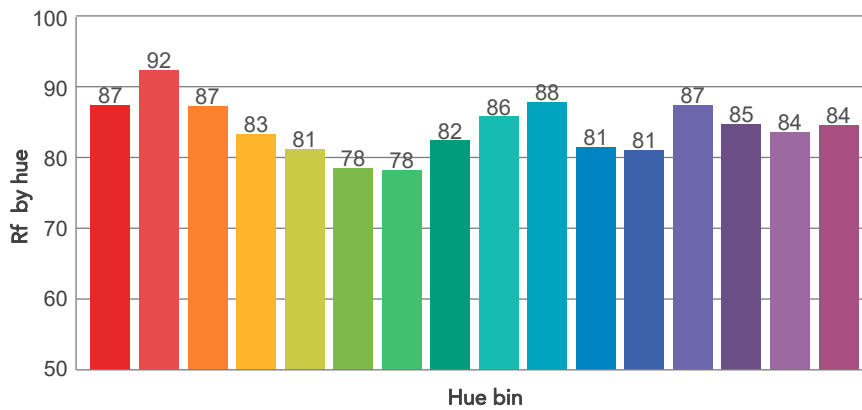
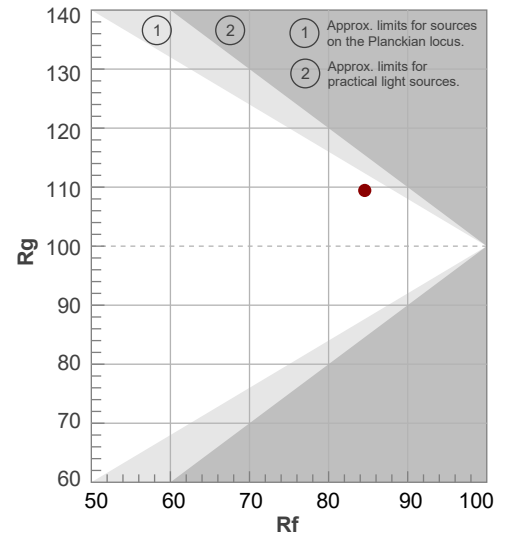
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2902 K	84,8	65,7	84,6	109,4	85,6	70	0,449	0,416	0,0032

TM30 DETAILS

Rf 84,6
Fidelity index Rf

Rg 109,4
Gammut index

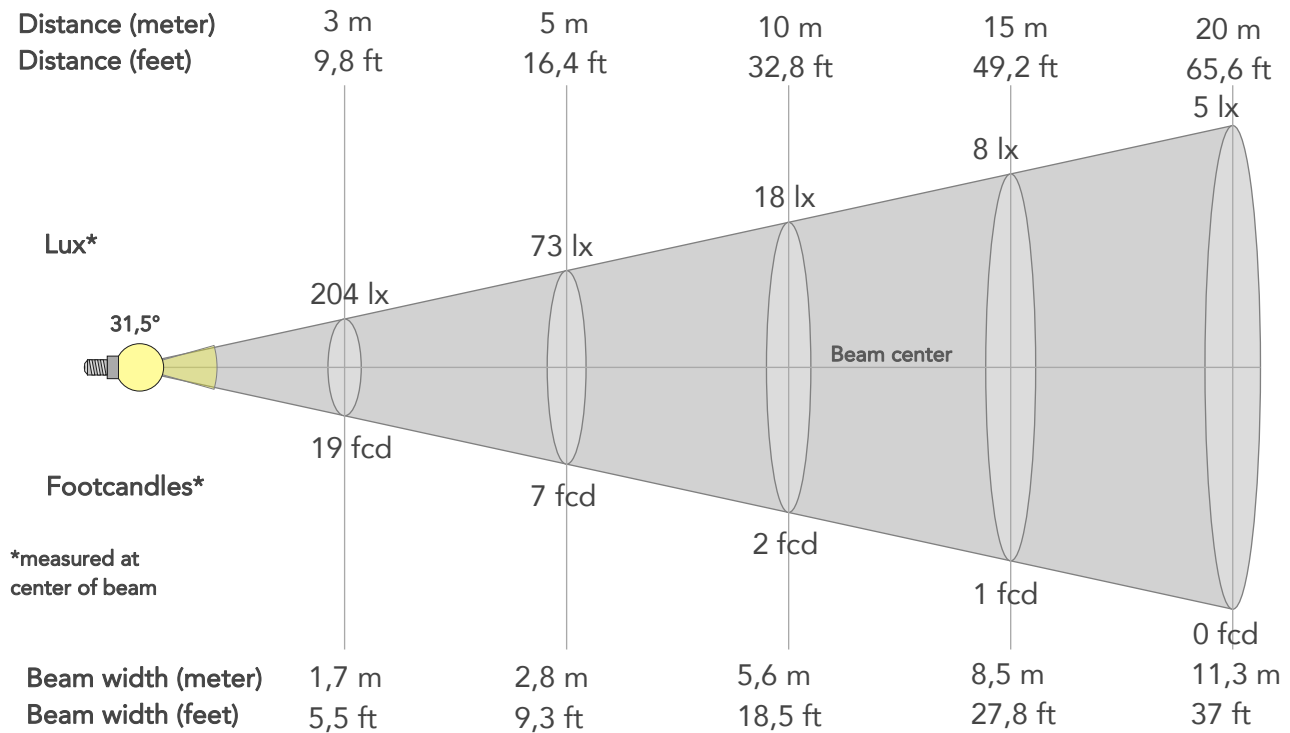
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	87	3%	-5%
2	92	1%	-2%
3	87	1%	5%
4	83	5%	10%
5	81	11%	11%
6	78	14%	3%
7	78	12%	-8%
8	82	4%	-11%
9	86	-2%	-9%
10	88	-7%	1%
11	81	-5%	12%
12	81	4%	10%
13	87	8%	4%
14	85	11%	6%
15	84	9%	-3%
16	84	10%	-7%



BEAM DETAILS



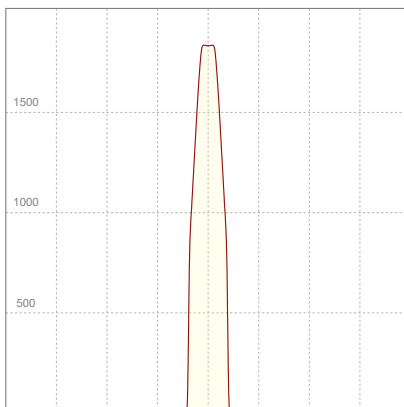
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,5°	36,2°	37,3°	98,6%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1832lx	458lx	204lx	115lx	73lx	33lx	18lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	170fcd	43fcd	19fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,6m	8,5m	11,3m	14,1m	16,9m	22,6m	28,2m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,5ft	27,8ft	37ft	46,3ft	55,6ft	74,1ft	92,6ft

LINEAR DISTRIBUTION DIAGRAM

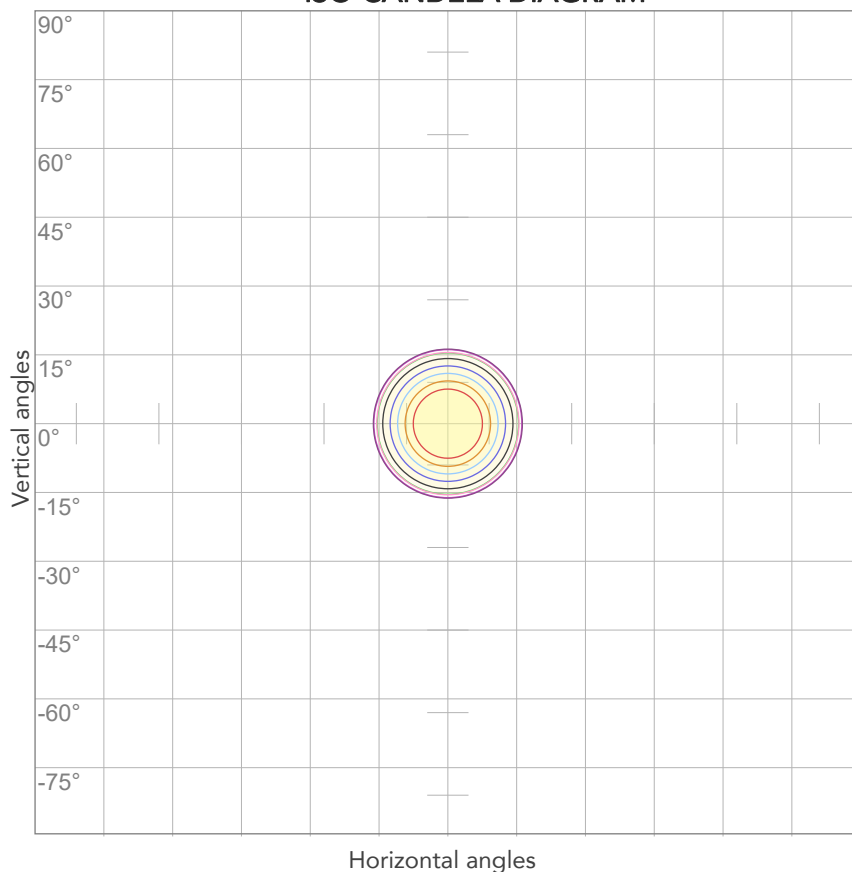


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,124A	23,2W	0,83	17lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



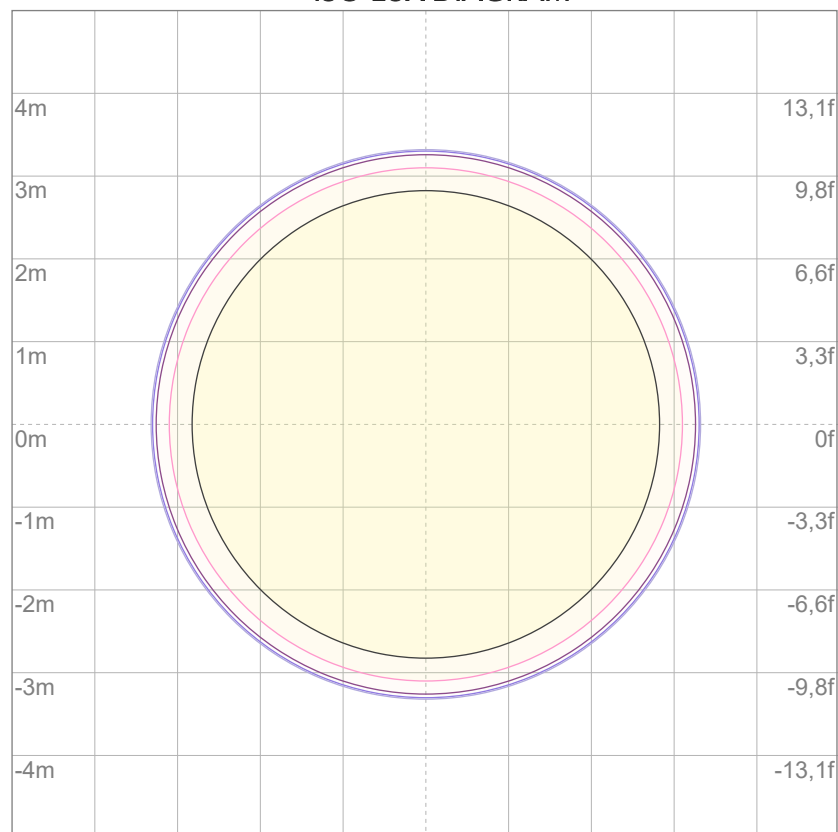
10%	183 cd
20%	366 cd
30%	550 cd
40%	733 cd
50%	916 cd
60%	1099 cd
70%	1283 cd
80%	1466 cd

Conditions:

Number of c-planes: 2

Candela at center: 1832 cd

ISO LUX DIAGRAM



3%	0,550 lx
5%	0,916 lx
10%	1,83 lx
30%	5,50 lx
50%	9,16 lx

Conditions:

Number of c-planes: 2

Lux at center: 18,3 lx

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



Total lumen output:

431 lm

Peak candela output:

2029 cd

Light quality:

CRI: 84,5

Color temperature:

3205 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

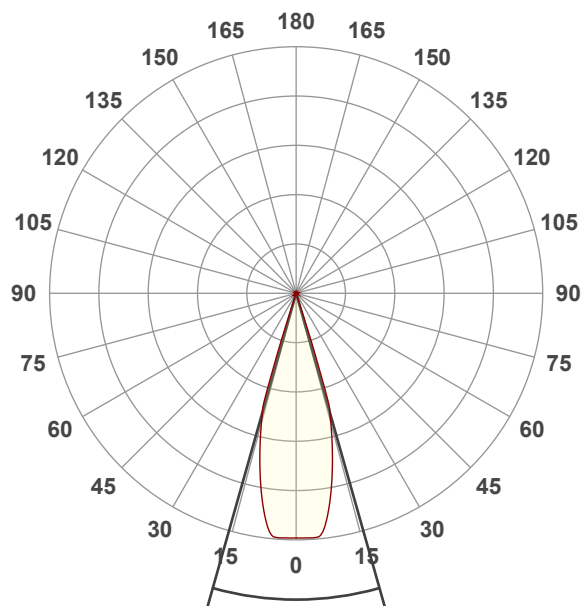
3200K

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 10:40:09

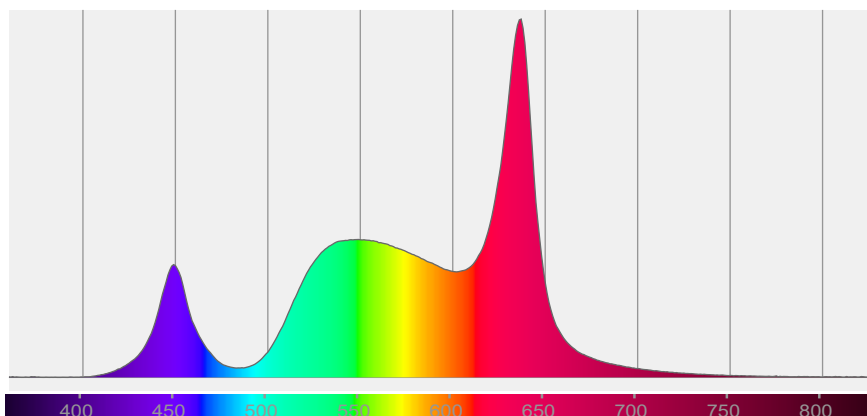


Beam angle 50%: 31,6°

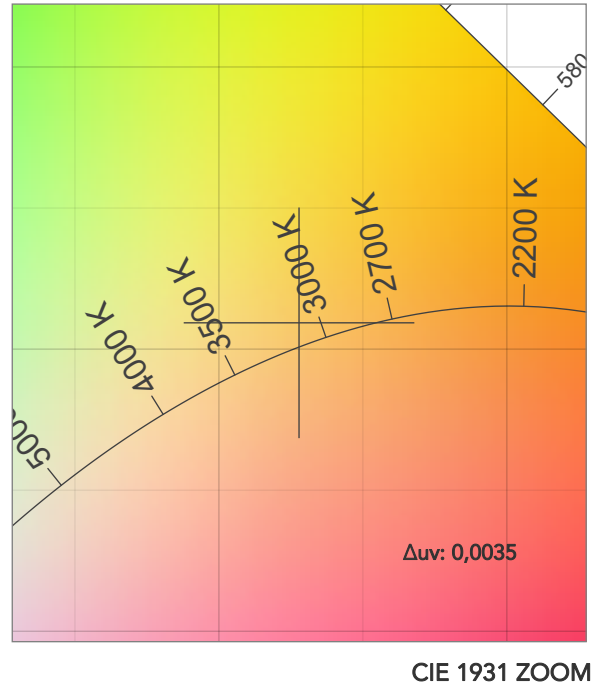
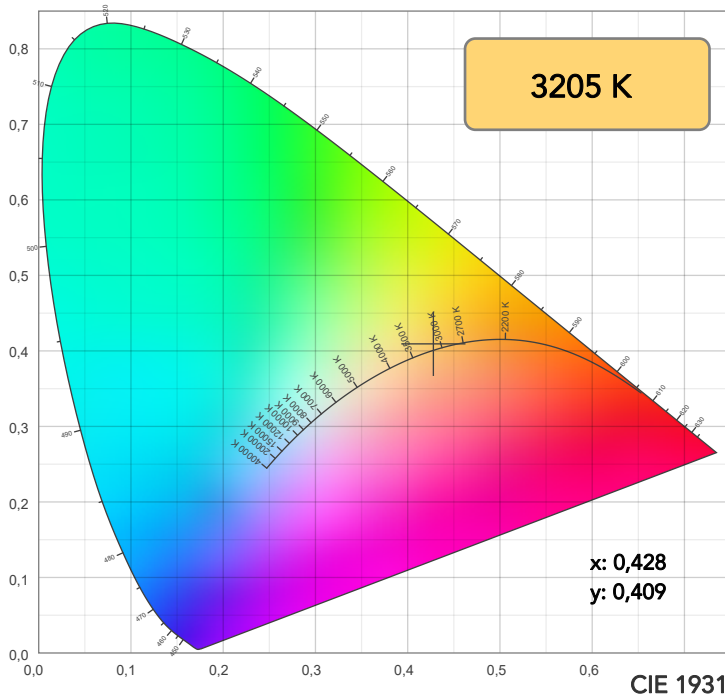
Field angle 10%: 36,1°

Cut off angle 2.5%: 36,9°

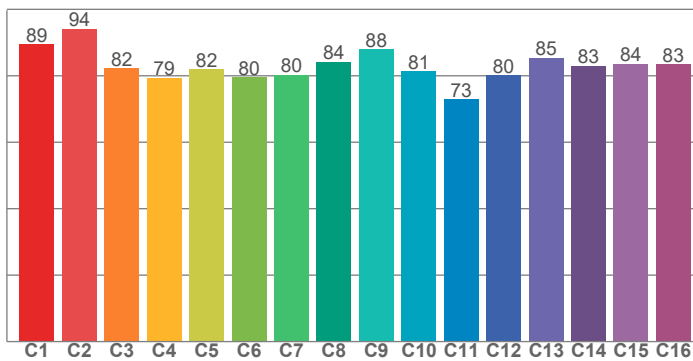
Spectra



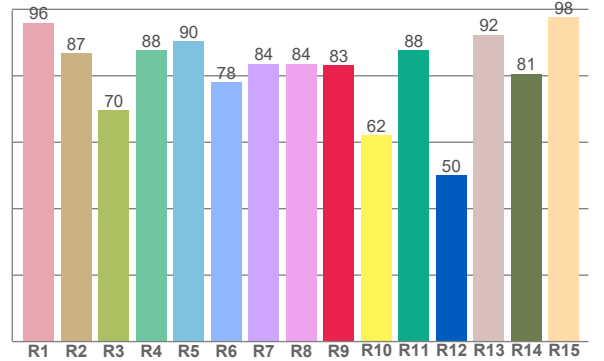
COLOR DETAILS



TM30: 83,4



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	69,6	87,6	90,5	78,0	83,6	83,6	83,1	62,2	87,8	50,1	92,4	80,6	97,6

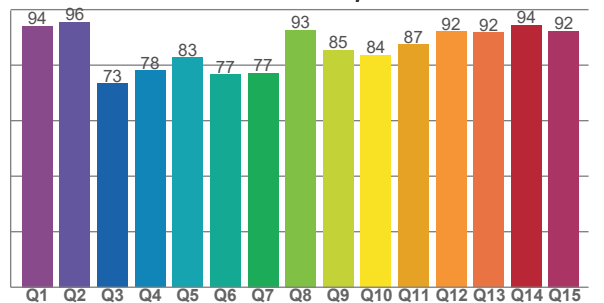
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,5	94,1	82,3	79,4	81,9	79,6	80,3	84,2	88,1	81,4	73,0	80,2	85,4	83,0	83,7	83,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,0	95,5	73,4	78,0	82,7	76,6	77,1	92,7	85,4	83,6	87,4	92,1	91,8	94,4	92,3

CQS: 84,5



COLOR PARAMETERS

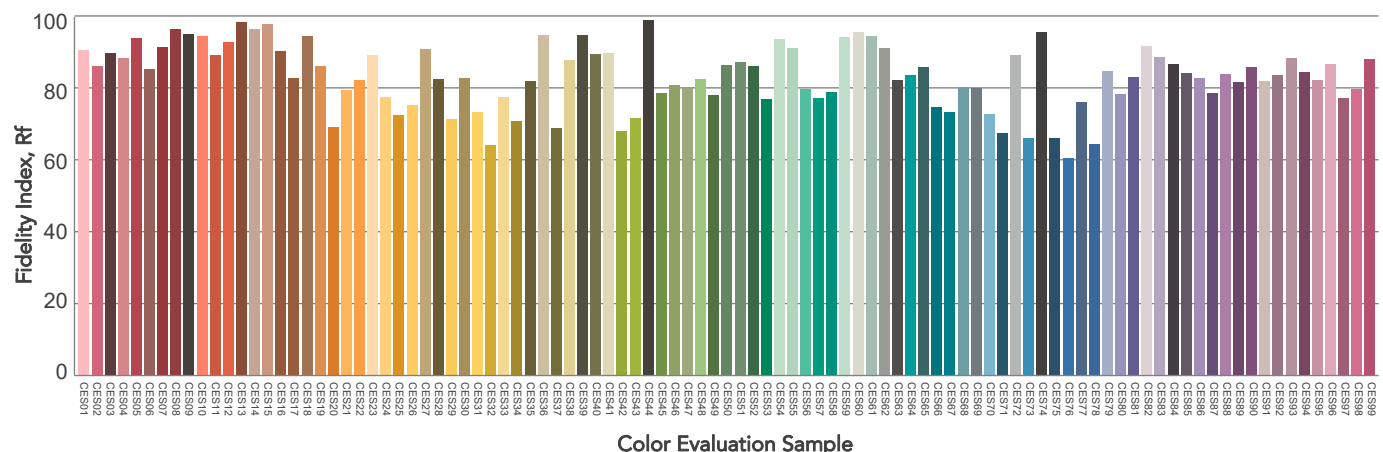
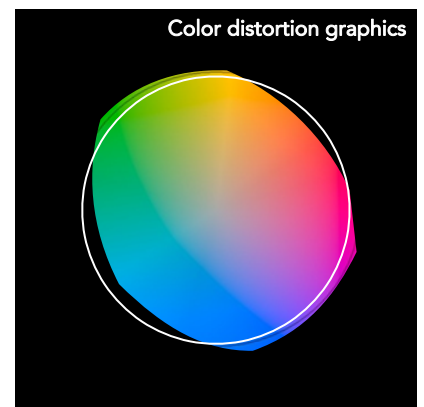
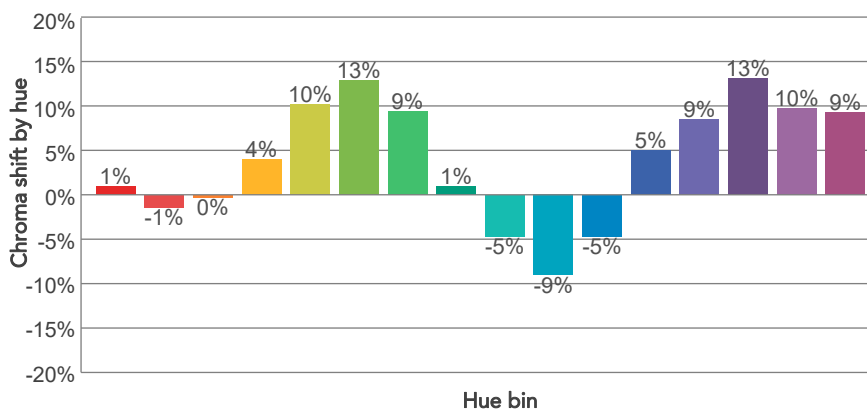
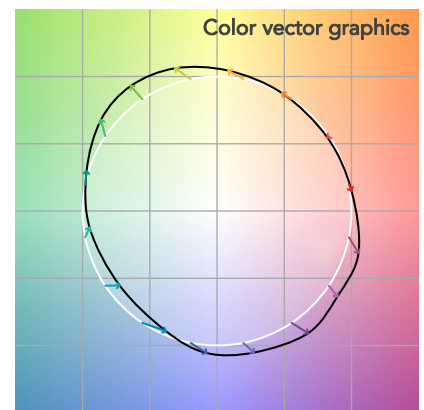
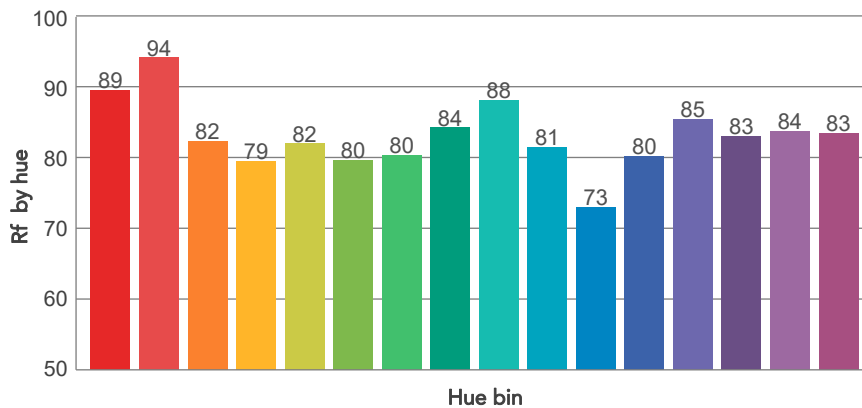
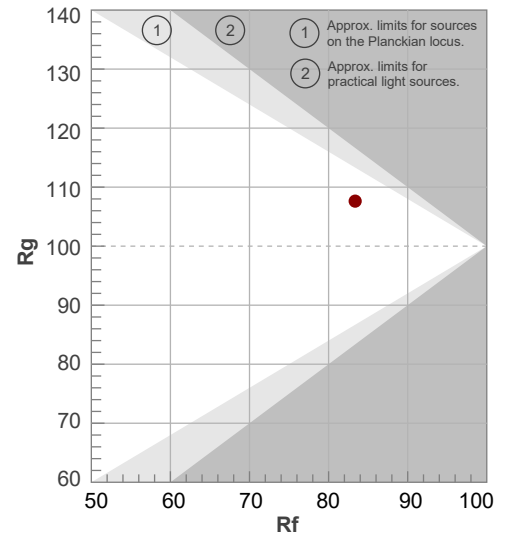
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3205 K	84,5	83,1	83,4	107,6	84,5	71	0,428	0,409	0,0035

TM30 DETAILS

Rf 83,4
Fidelity index Rf

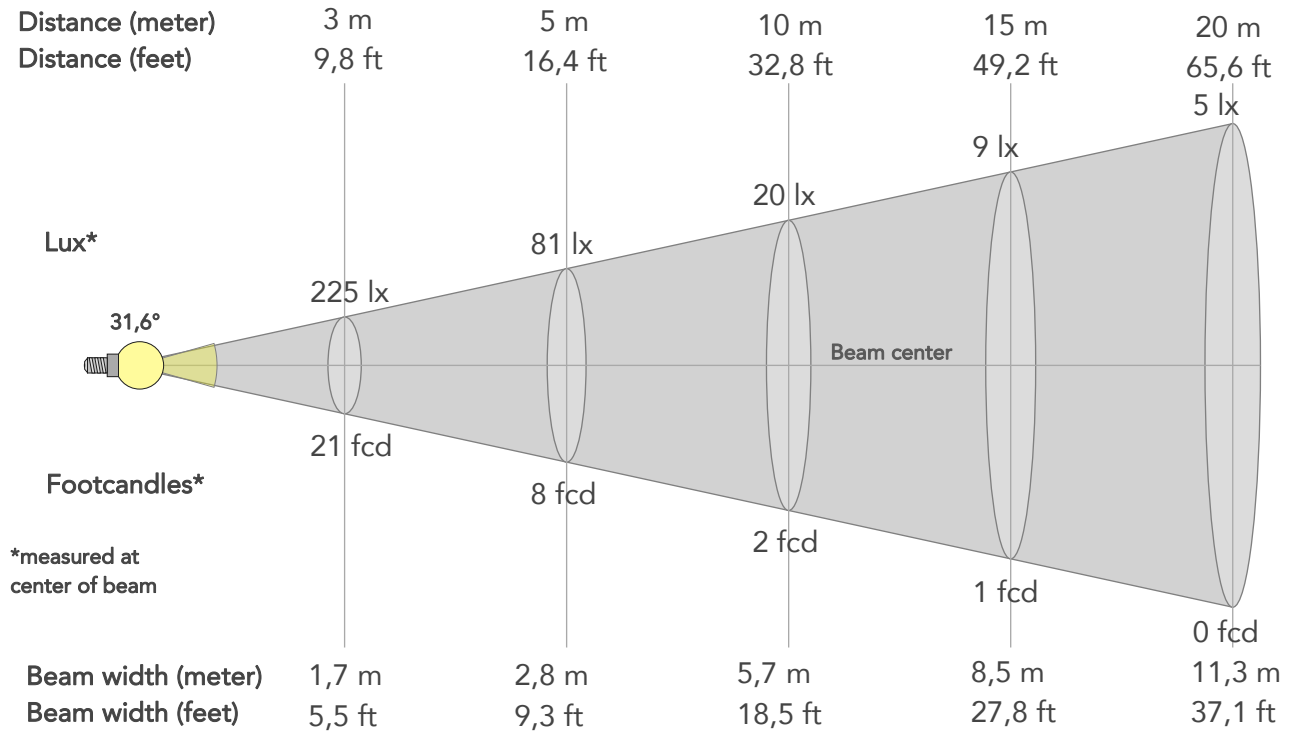
Rg 107,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	1%	-5%
2	94	-1%	0%
3	82	0%	8%
4	79	4%	12%
5	82	10%	10%
6	80	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%	6%
14	83	13%	6%
15	84	10%	-3%
16	83	9%	-10%



BEAM DETAILS

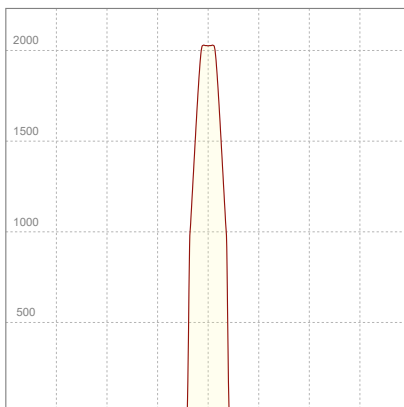
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,6°	36,1°	36,9°	99,0%	98,7%



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	2026lx	506lx	225lx	127lx	81lx	36lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	188fcd	47fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,7m	8,5m	11,3m	14,1m	17m	22,6m	28,3m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,5ft	27,8ft	37,1ft	46,4ft	55,6ft	74,2ft	92,7ft

LINEAR DISTRIBUTION DIAGRAM

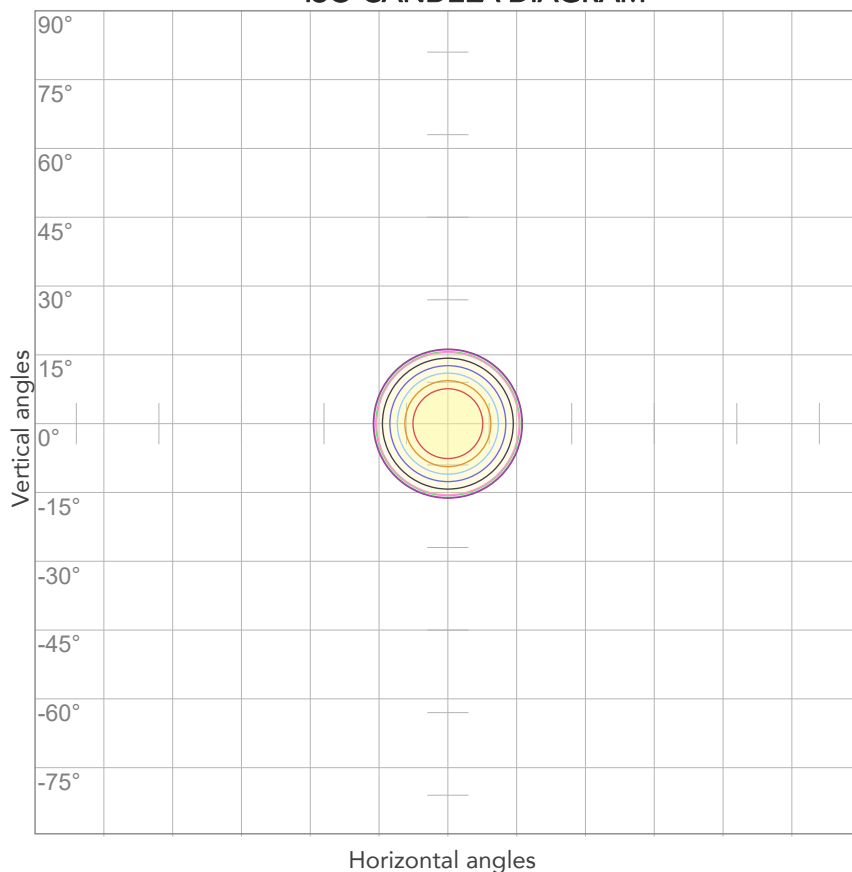


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,132A	25,5W	0,85	17lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



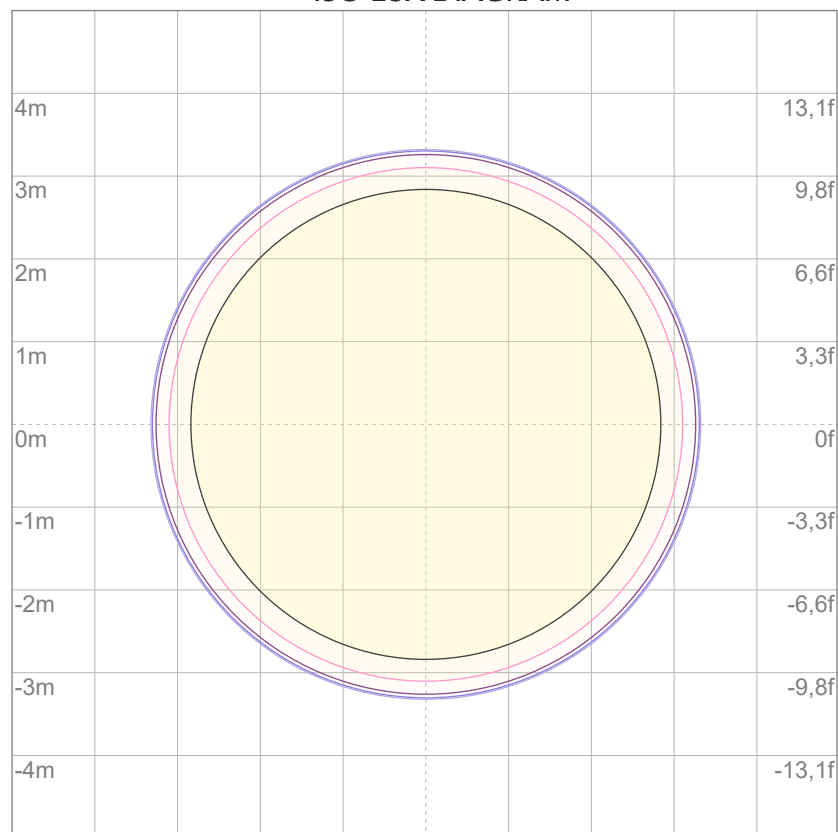
10%	203 cd
20%	405 cd
30%	608 cd
40%	810 cd
50%	1013 cd
60%	1216 cd
70%	1418 cd
80%	1621 cd

Conditions:

Number of c-planes: 2

Candela at center: 2026 cd

ISO LUX DIAGRAM



3%	0,608 lx
5%	1,01 lx
10%	2,03 lx
30%	6,08 lx
50%	10,1 lx

Conditions:

Number of c-planes: 2

Lux at center: 20,3 lx

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



Total lumen output:

422 lm

Peak candela output:

1997 cd

Light quality:

CRI: 82,7

Color temperature:

4009 K

PRODUCT NAME:

ECLDISPLAYXB FC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

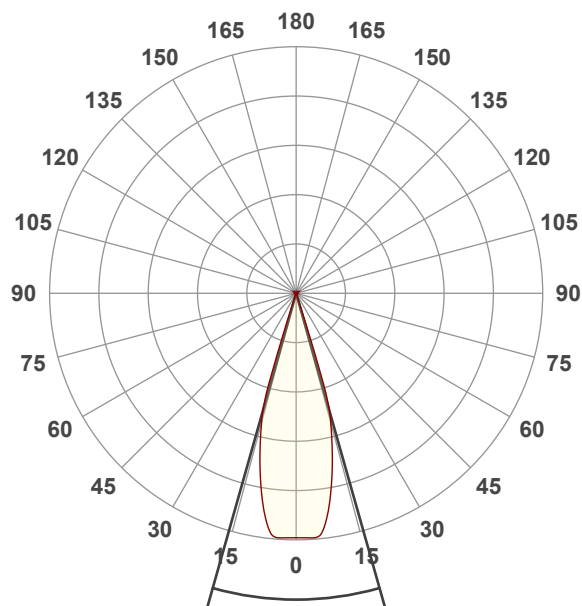
4000K

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 13:19:30

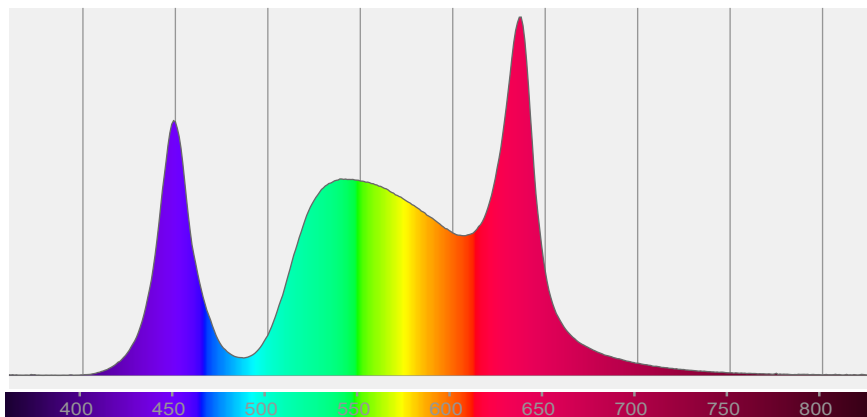


Beam angle 50%: 31,6°

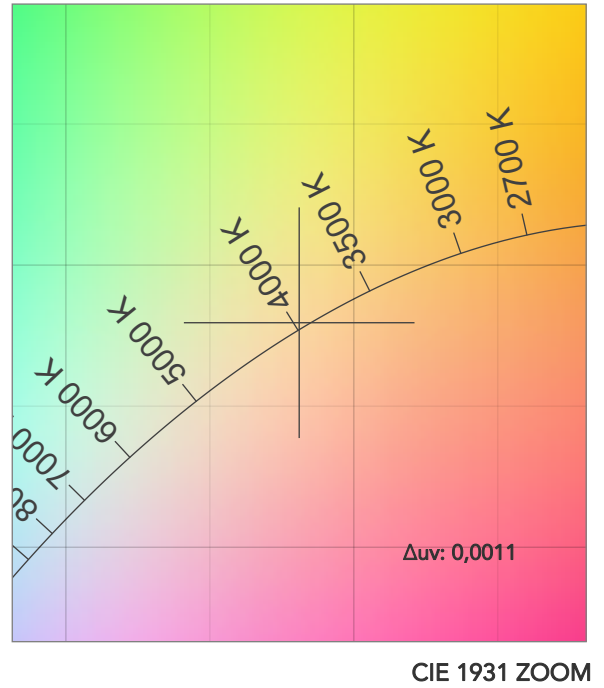
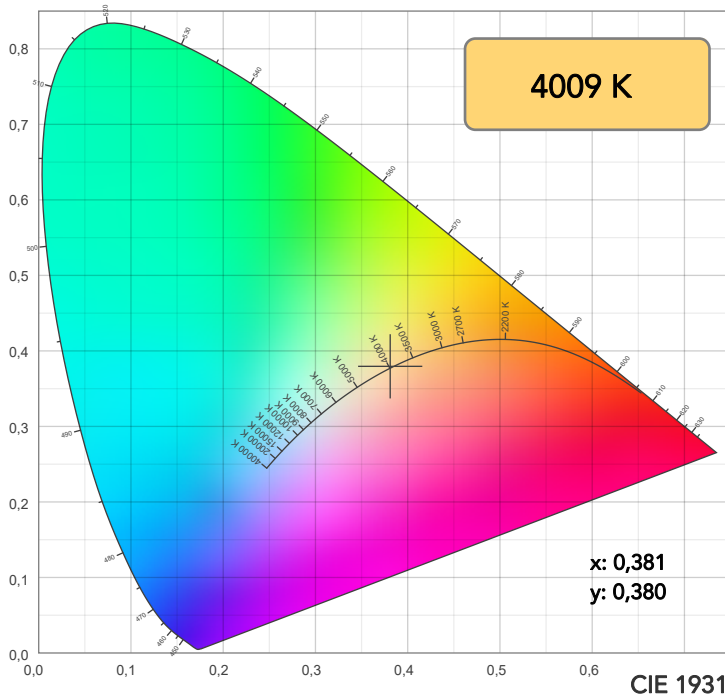
Field angle 10%: 36,1°

Cut off angle 2.5%: 37,3°

Spectra

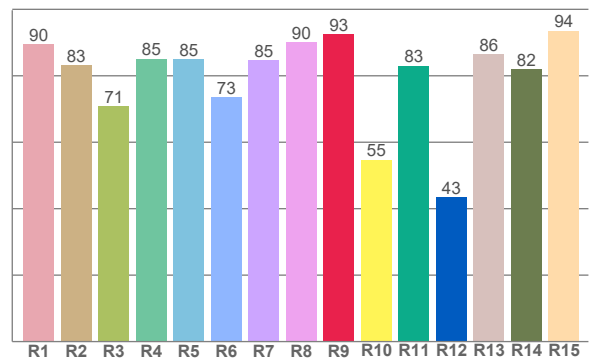
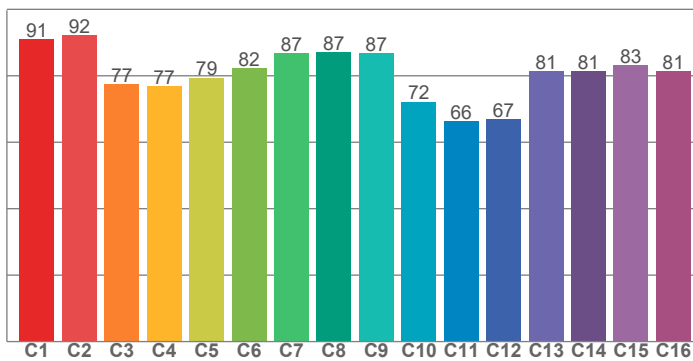


COLOR DETAILS



TM30: 80,8

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	70,8	85,2	84,9	73,5	84,7	90,0	92,5	54,7	83,0	43,5	86,4	82,0	93,6

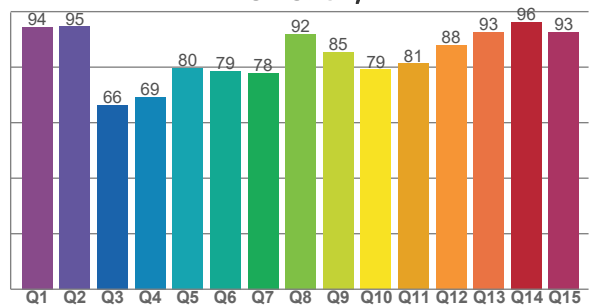
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,0	92,1	77,4	76,9	79,4	82,3	86,8	87,0	86,7	72,2	66,2	67,0	81,4	81,4	83,2	81,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,4	94,6	66,4	69,3	79,8	78,7	78,0	92,0	85,4	79,2	81,3	88,1	92,6	96,3	92,7

CQS: 82,1



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
4009 K	82,7	92,5	80,8	104,6	82,1	69	0,381	0,380	0,0011

TM30 DETAILS

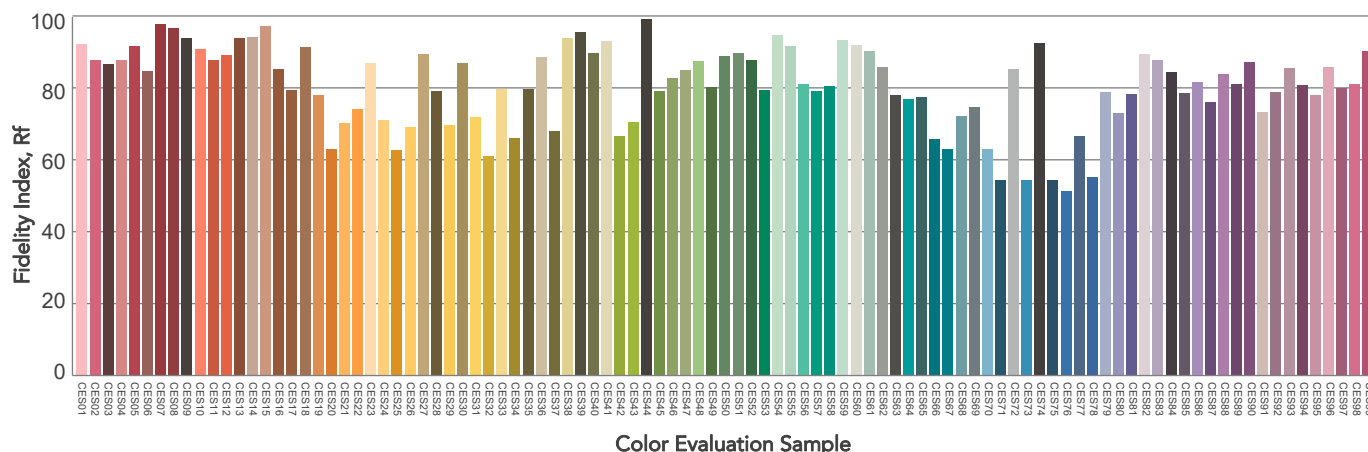
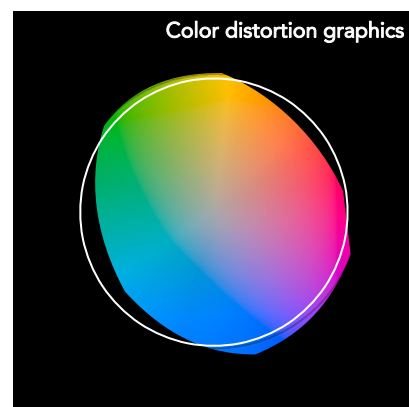
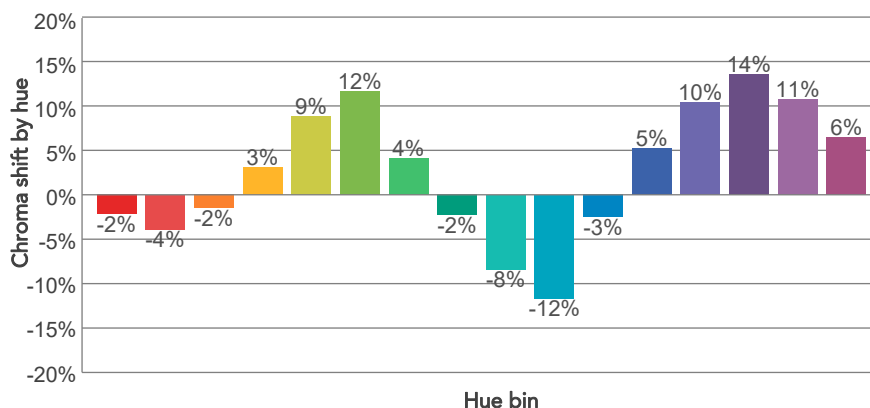
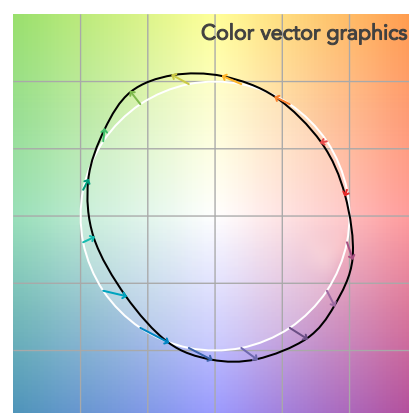
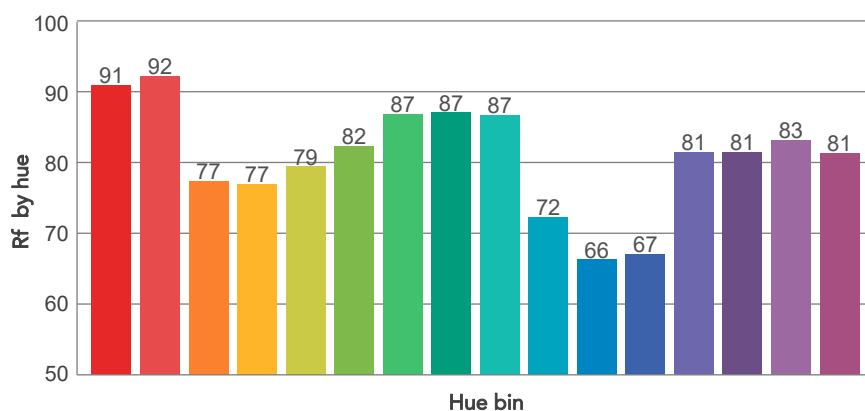
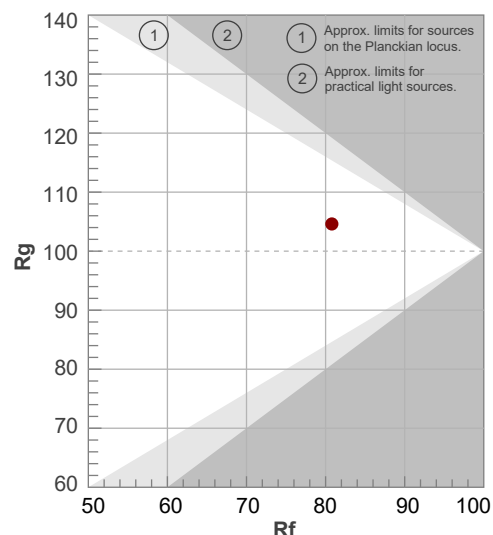
Rf 80,8

Fidelity index Rf

Rg 104,6

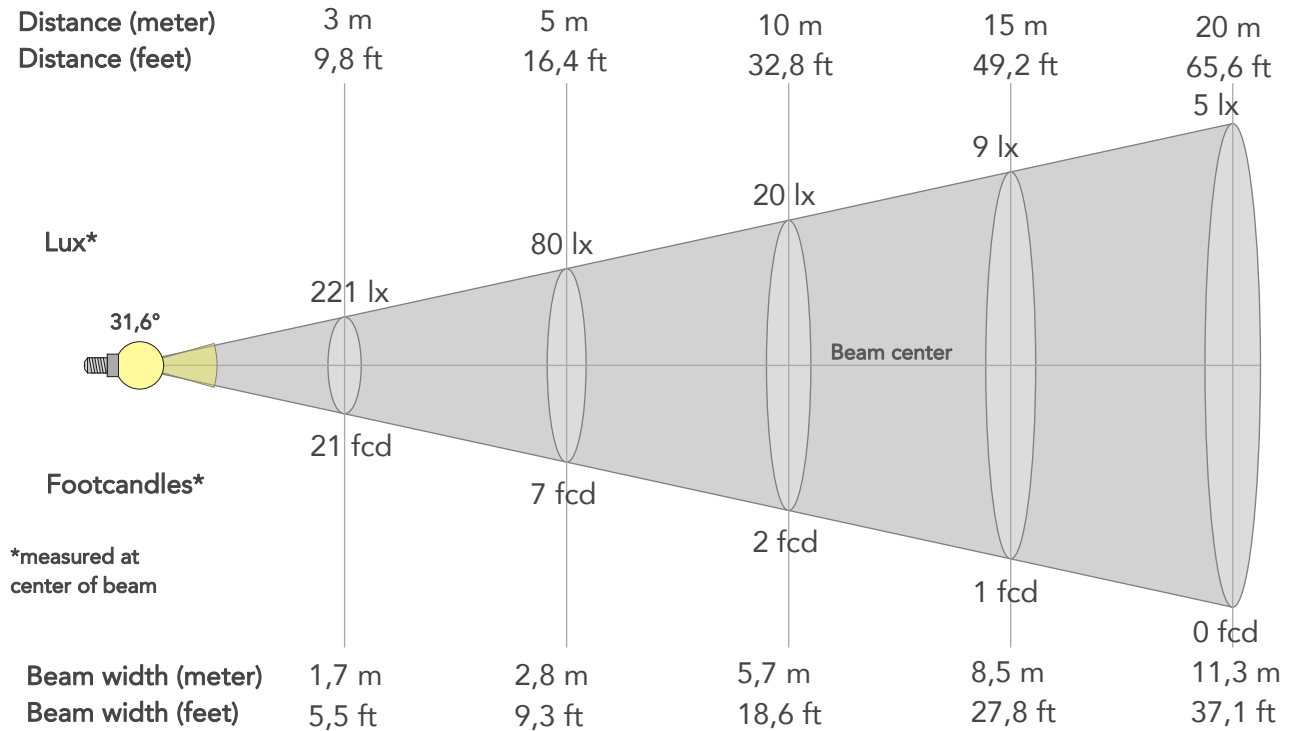
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-2%	-4%
2	92	-4%	2%
3	77	-2%	12%
4	77	3%	14%
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	10%	10%
14	81	14%	6%
15	83	11%	-6%
16	81	6%	-11%



BEAM DETAILS

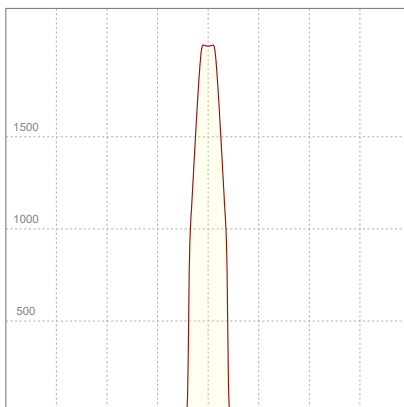
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,6°	36,1°	37,3°	99,0%	98,8%



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	1992lx	498lx	221lx	125lx	80lx	35lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	185fcd	46fcd	21fcd	12fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,7m	8,5m	11,3m	14,1m	17m	22,6m	28,3m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,6ft	27,8ft	37,1ft	46,4ft	55,7ft	74,2ft	92,8ft

LINEAR DISTRIBUTION DIAGRAM

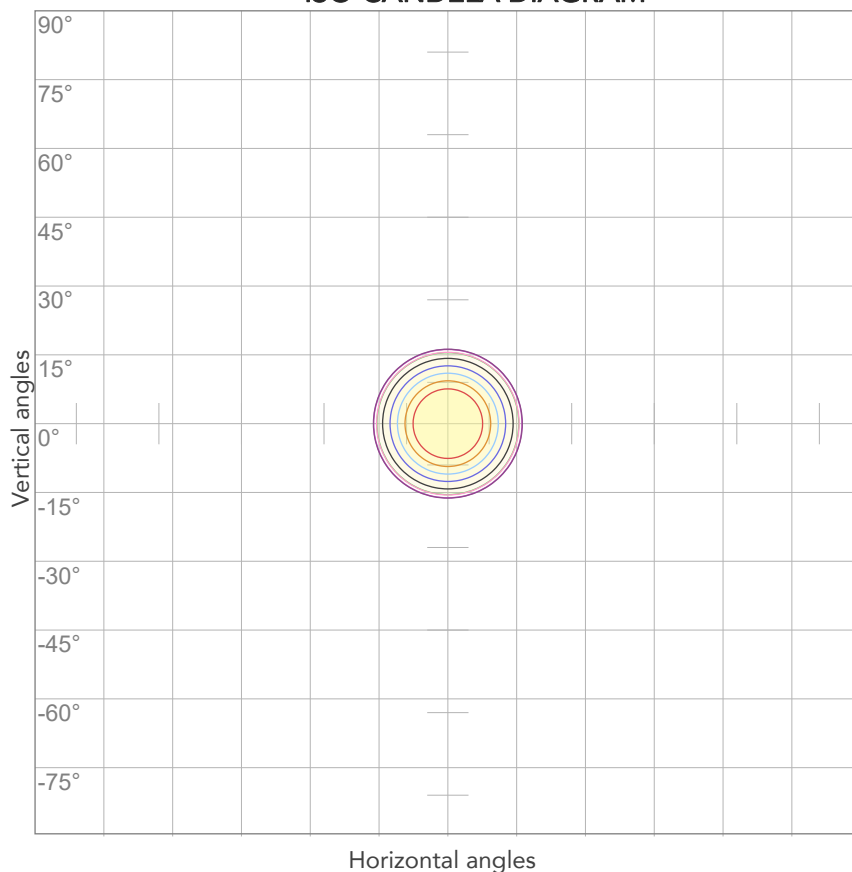


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,132A	25,7W	0,86	16lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



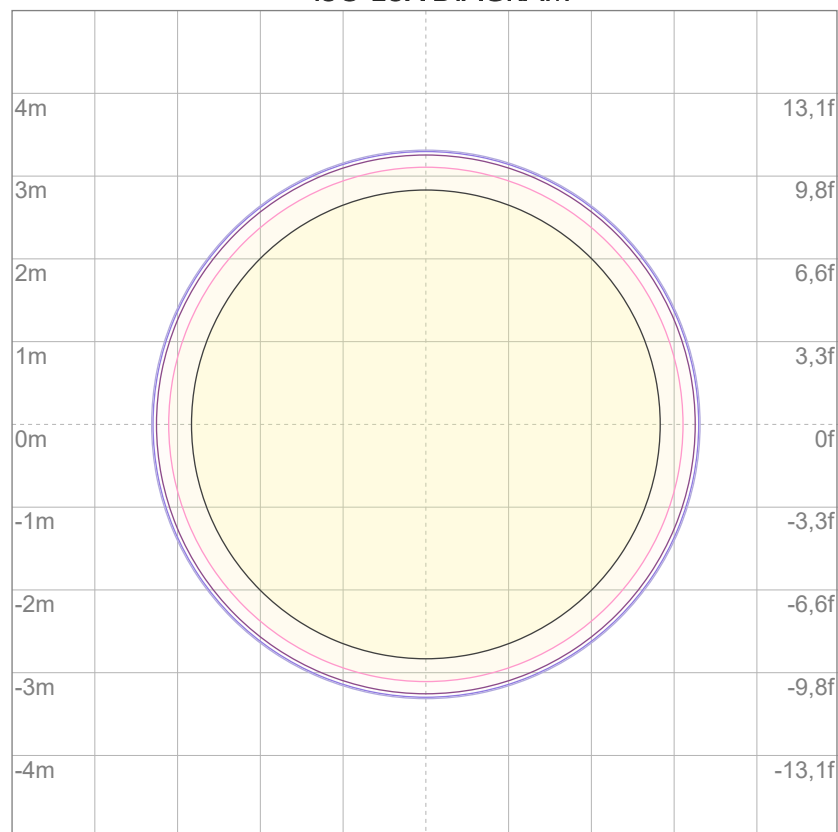
10%	199 cd
20%	398 cd
30%	598 cd
40%	797 cd
50%	996 cd
60%	1195 cd
70%	1395 cd
80%	1594 cd

Conditions:

Number of c-planes: 2

Candela at center: 1992 cd

ISO LUX DIAGRAM



3%	0,598 lx
5%	0,996 lx
10%	1,99 lx
30%	5,98 lx
50%	9,96 lx

Conditions:

Number of c-planes: 2

Lux at center: 19,9 lx

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



Total lumen output:

447 lm

Peak candela output:

2116 cd

Light quality:

CRI: 82,9

Color temperature:

5627 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

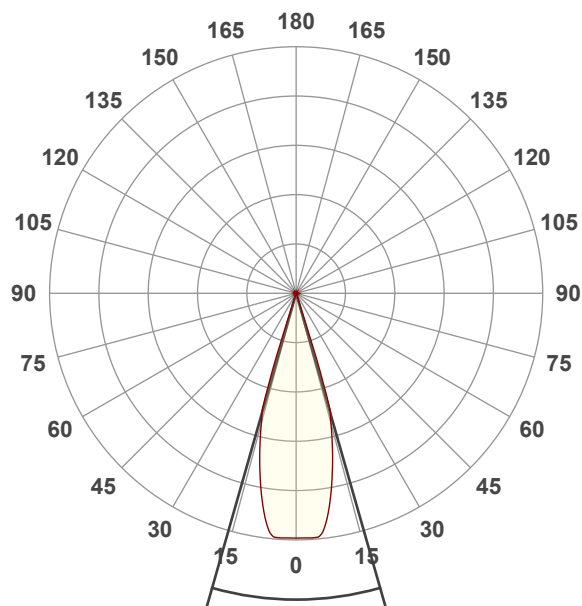
5600K

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 10:53:11

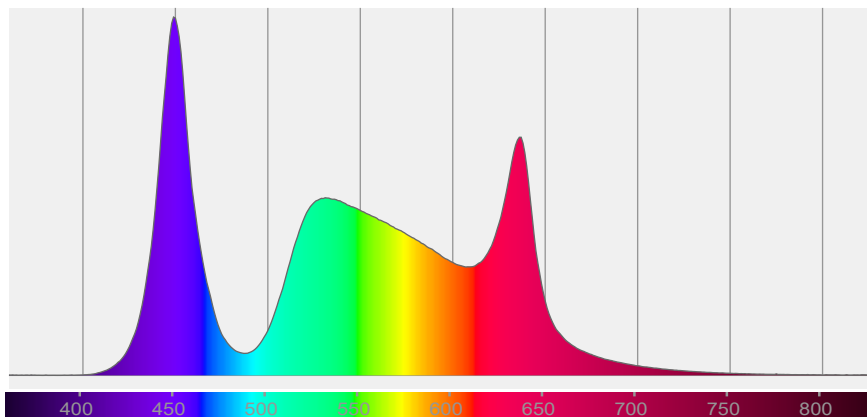


Beam angle 50%: 31,8°

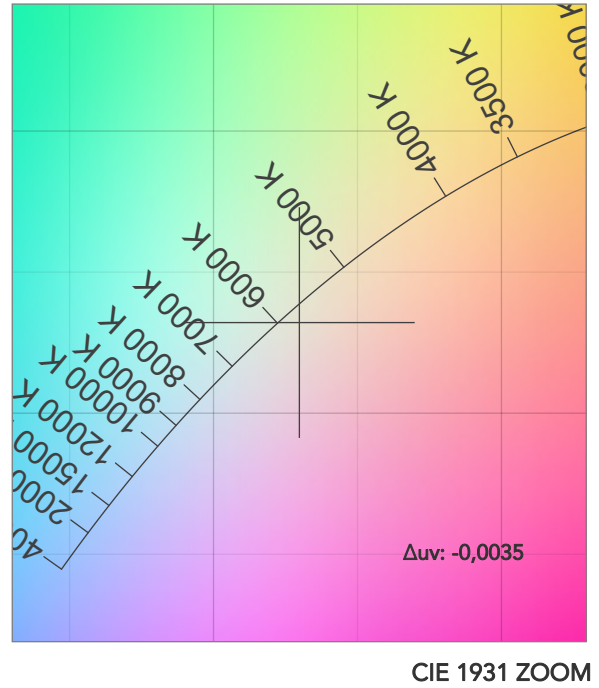
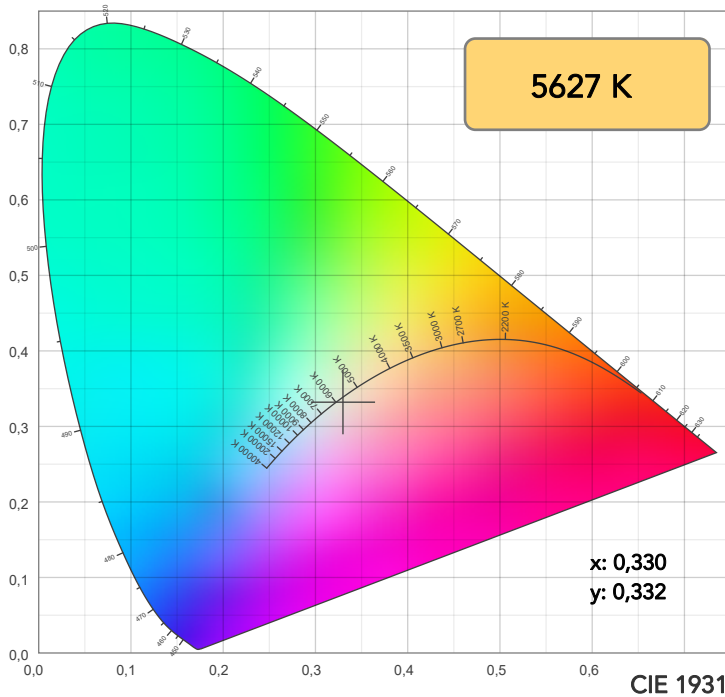
Field angle 10%: 36°

Cut off angle 2.5%: 36,6°

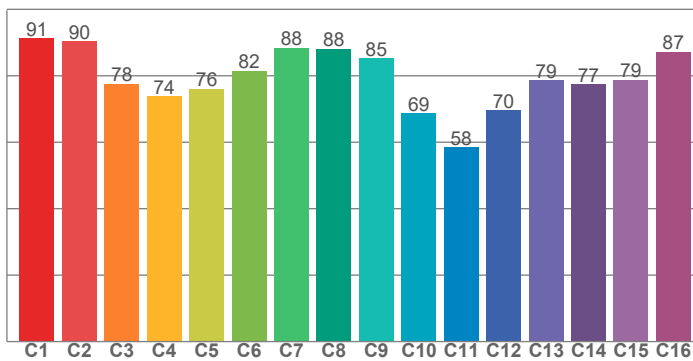
Spectra



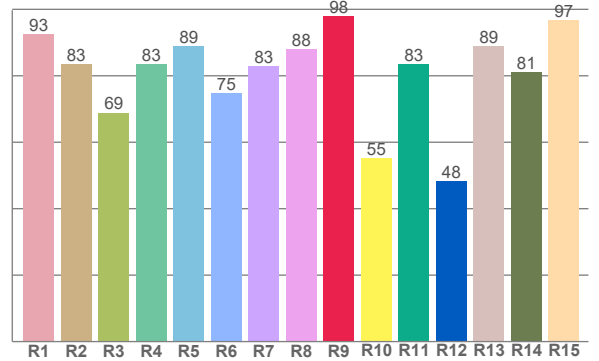
COLOR DETAILS



TM30: 79,1



CRI: 82,9 (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
92,6	83,5	68,9	83,4	89,0	74,9	83,0	88,0	97,8	55,1	83,5	48,2	89,0	81,2	96,8

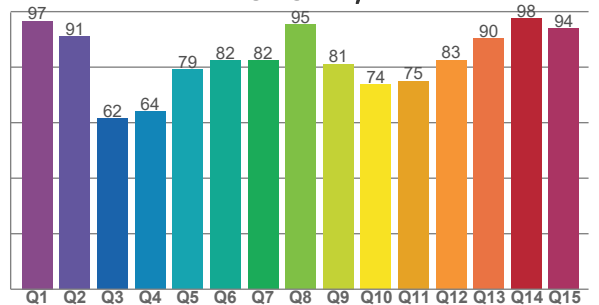
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	91,1	61,6	64,0	79,2	82,4	82,4	95,4	81,1	73,8	75,0	82,5	90,3	97,6	94,0

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
5627 K	82,9	97,8	79,1	105,6	79,9	73	0,330	0,332	-0,0035

TM30 DETAILS

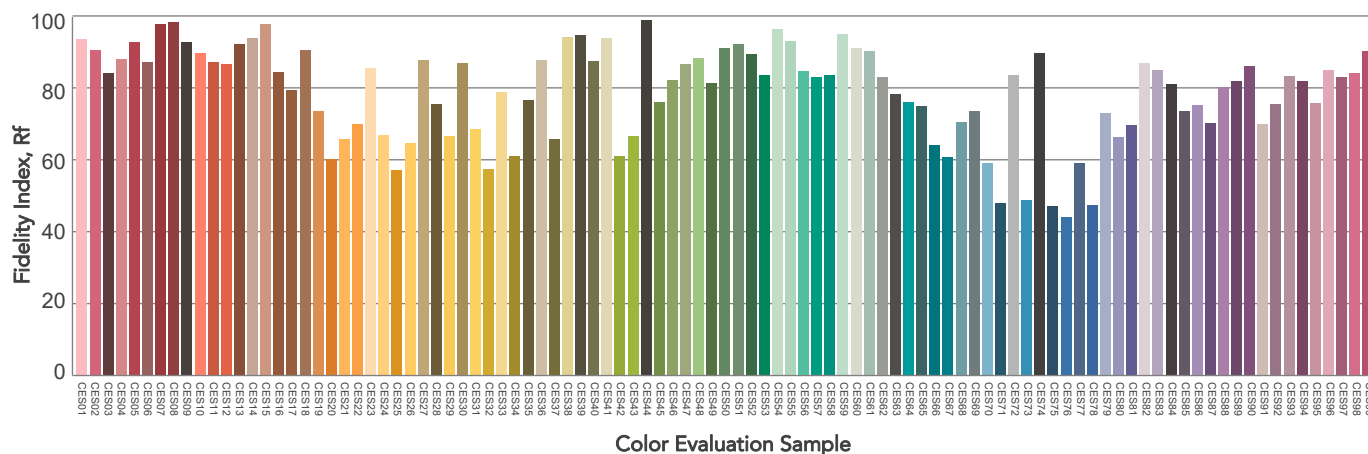
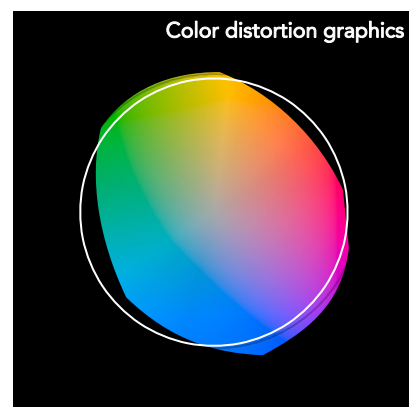
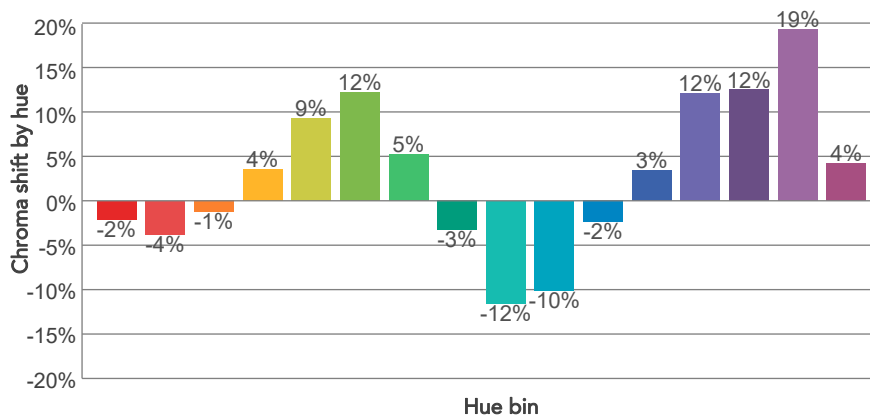
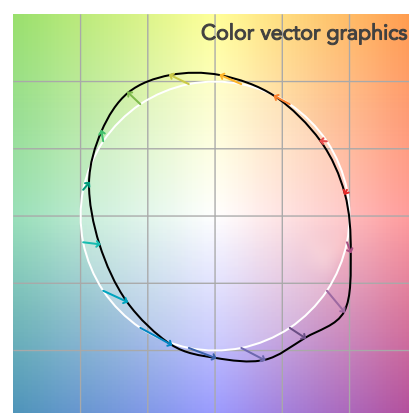
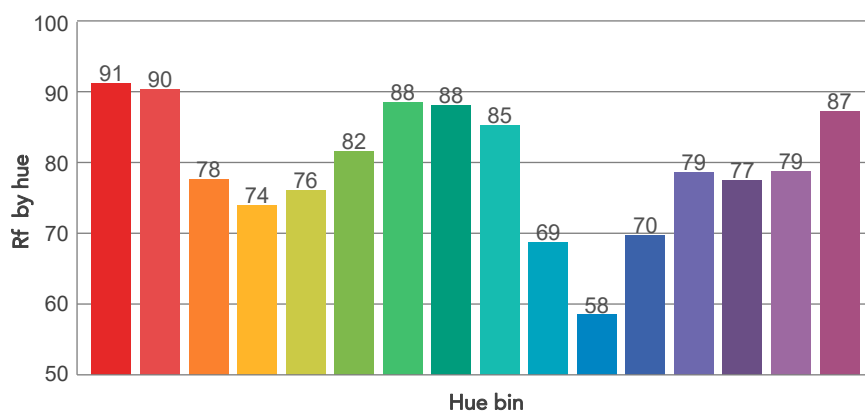
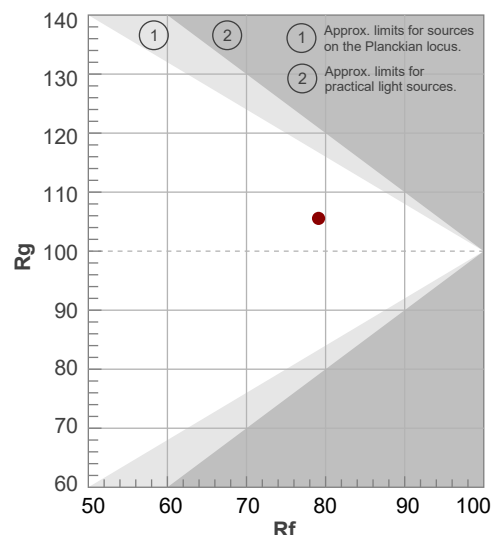
Rf 79,1

Fidelity index Rf

Rg 105,6

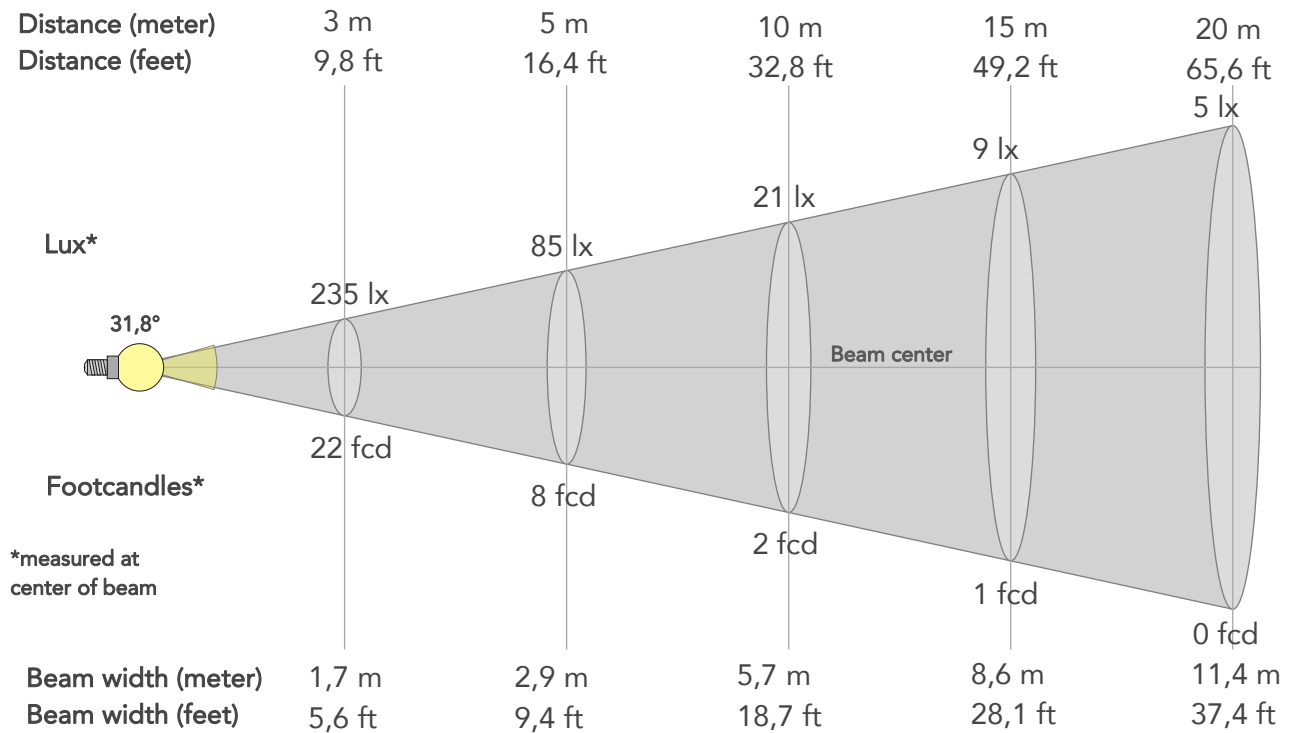
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-2%	-3%
2	90	-4%	3%
3	78	-1%	13%
4	74	4%	16%
5	76	9%	12%
6	82	12%	3%
7	88	5%	-6%
8	88	-3%	-6%
9	85	-12%	4%
10	69	-10%	17%
11	58	-2%	26%
12	70	3%	21%
13	79	12%	15%
14	77	12%	5%
15	79	19%	-6%
16	87	4%	-6%



BEAM DETAILS

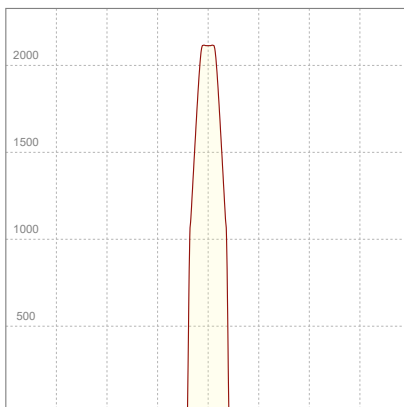
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,8°	36°	36,6°	99,5%	99,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2113lx	528lx	235lx	132lx	85lx	38lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	196fcd	49fcd	22fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,9m	4,3m	5,7m	8,6m	11,4m	14,3m	17,1m	22,8m	28,5m
Beam wid.	1,9ft	3,8ft	5,6ft	7,5ft	9,4ft	14ft	18,7ft	28,1ft	37,4ft	46,8ft	56,1ft	74,8ft	93,5ft

LINEAR DISTRIBUTION DIAGRAM

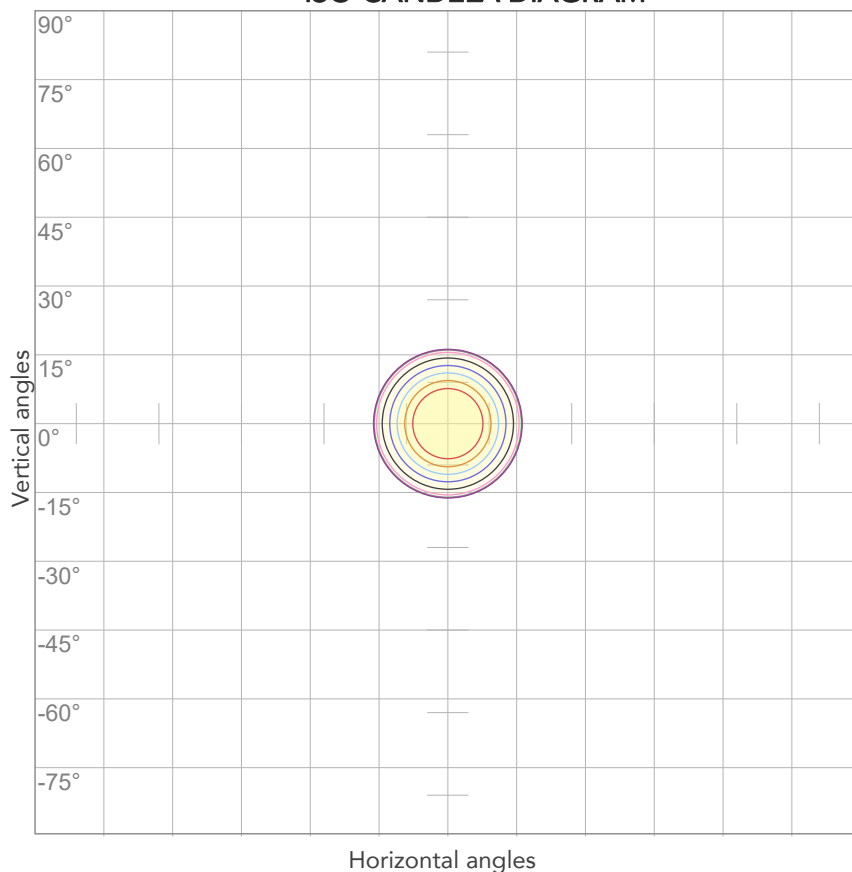


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,144A	28,5W	0,87	16lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



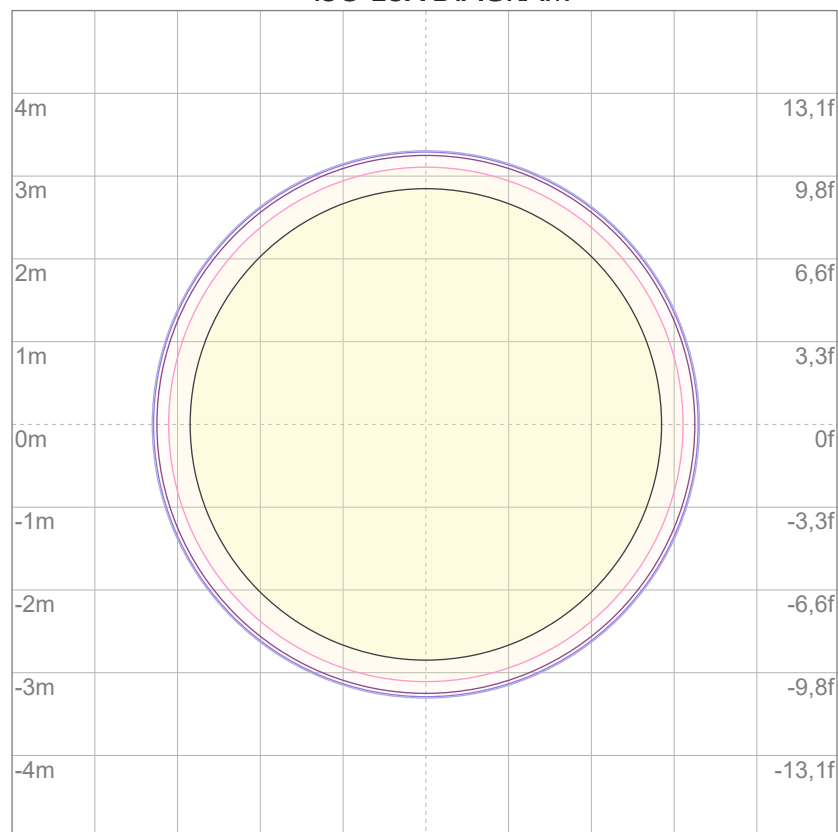
10%	211 cd
20%	423 cd
30%	634 cd
40%	845 cd
50%	1057 cd
60%	1268 cd
70%	1479 cd
80%	1691 cd

Conditions:

Number of c-planes: 2

Candela at center: 2113 cd

ISO LUX DIAGRAM



3%	0,634 lx
5%	1,06 lx
10%	2,11 lx
30%	6,34 lx
50%	10,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 21,1 lx

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



Total lumen output:

561 lm

Peak candela output:

2640 cd

Light quality:

CRI: 80,5

Color temperature:

5999 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 36° HD

Target:

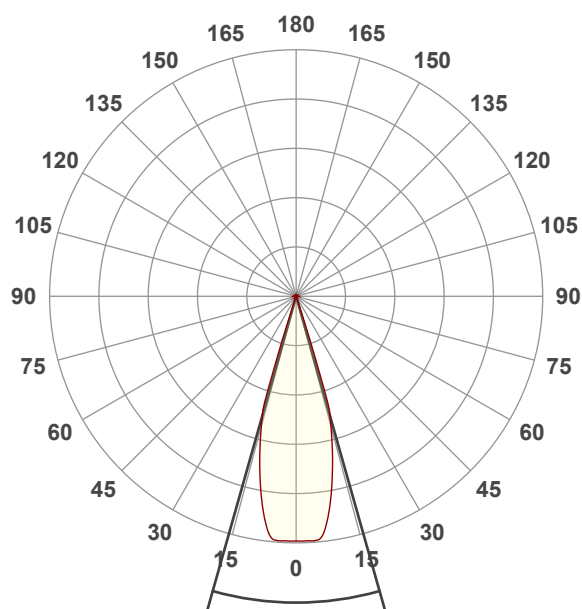
6000K

Operator:

Giuseppe della Peruta

Date and time:

23/07/2025 11:07:50

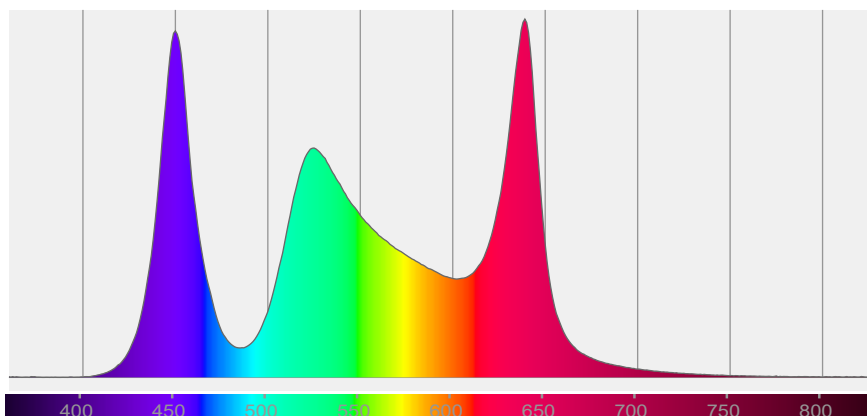


Beam angle 50%: 31,6°

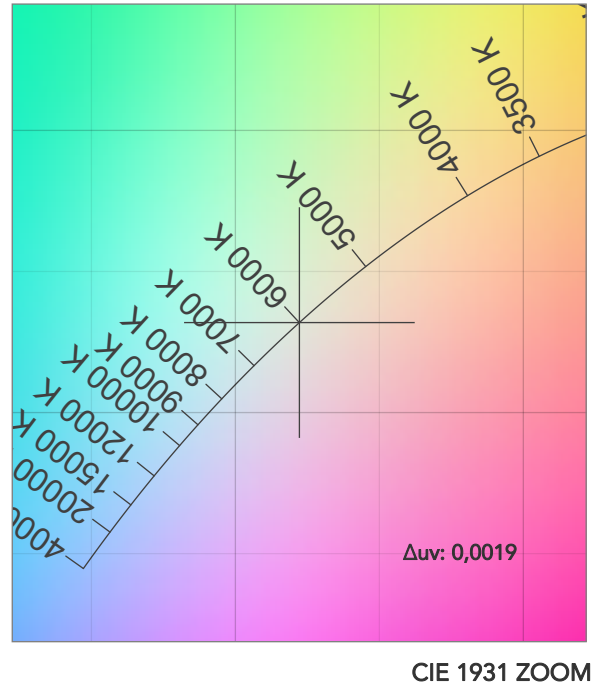
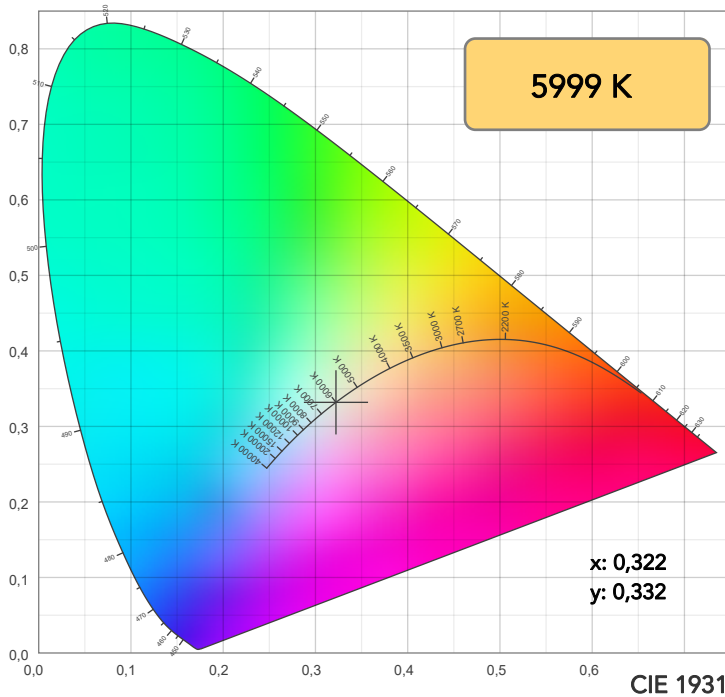
Field angle 10%: 36,2°

Cut off angle 2.5%: 37°

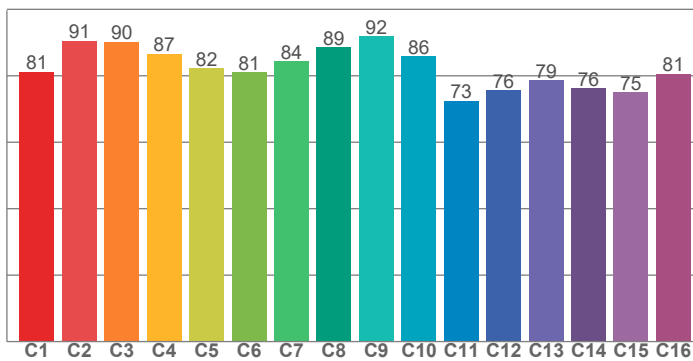
Spectra



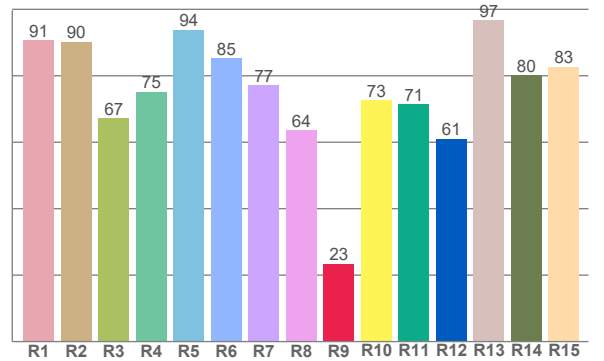
COLOR DETAILS



TM30: 82,9



CRI: 80,5 (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
90,8	90,2	67,3	75,2	93,9	85,3	77,2	63,7	23,4	72,7	71,4	61,1	96,7	80,2	82,7

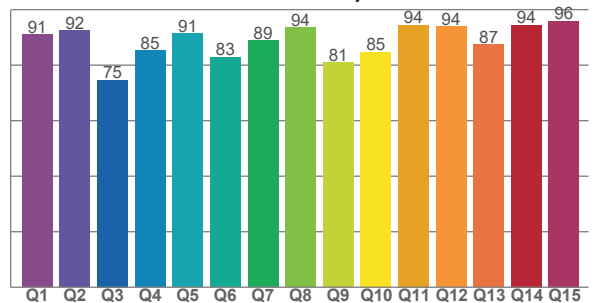
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81,2	90,5	90,3	86,6	82,3	81,0	84,3	88,6	91,9	85,9	72,5	75,6	78,6	76,3	75,1	80,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,1	92,4	74,6	85,2	91,4	82,8	88,9	93,6	80,9	84,8	94,5	93,9	87,4	94,4	96,0

CQS: 87,3



COLOR PARAMETERS

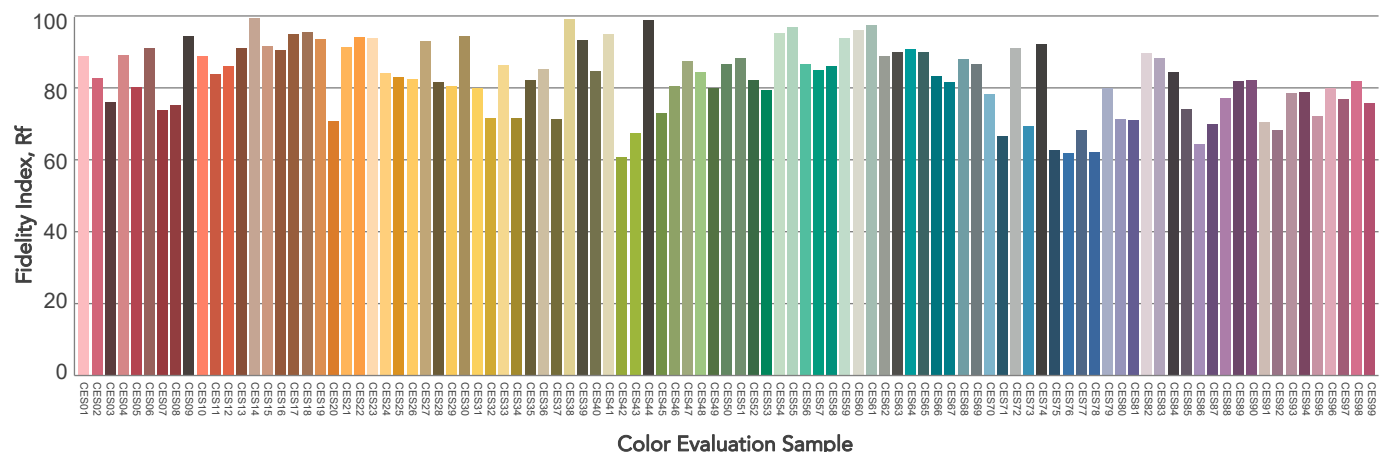
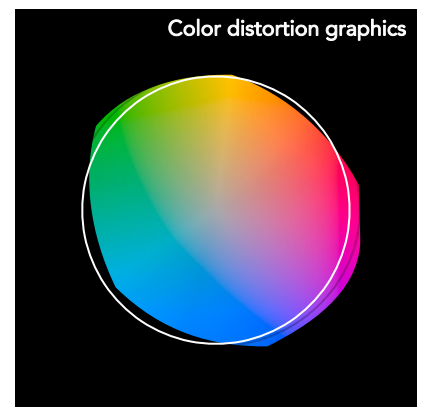
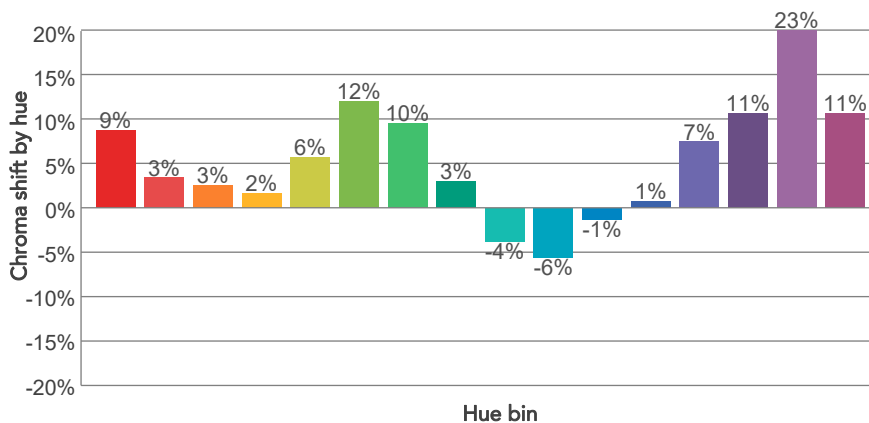
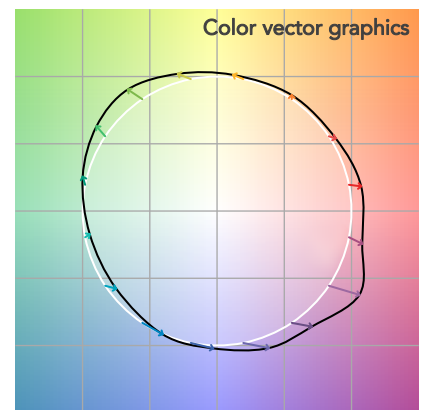
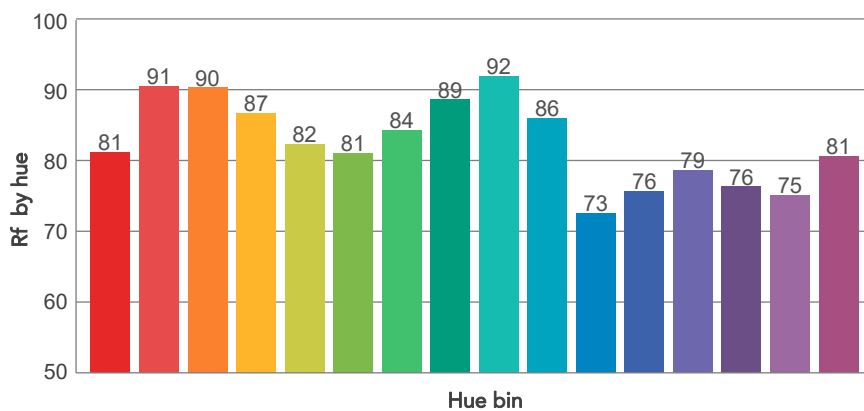
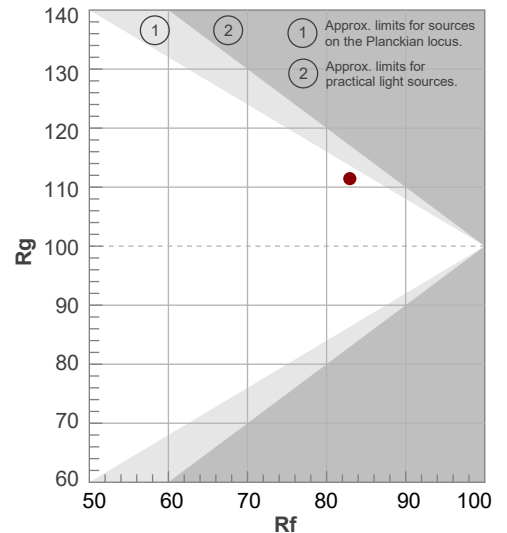
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5999 K	80,5	23,4	82,9	111,4	87,3	76	0,322	0,332	0,0019

TM30 DETAILS

Rf 82,9
Fidelity index Rf

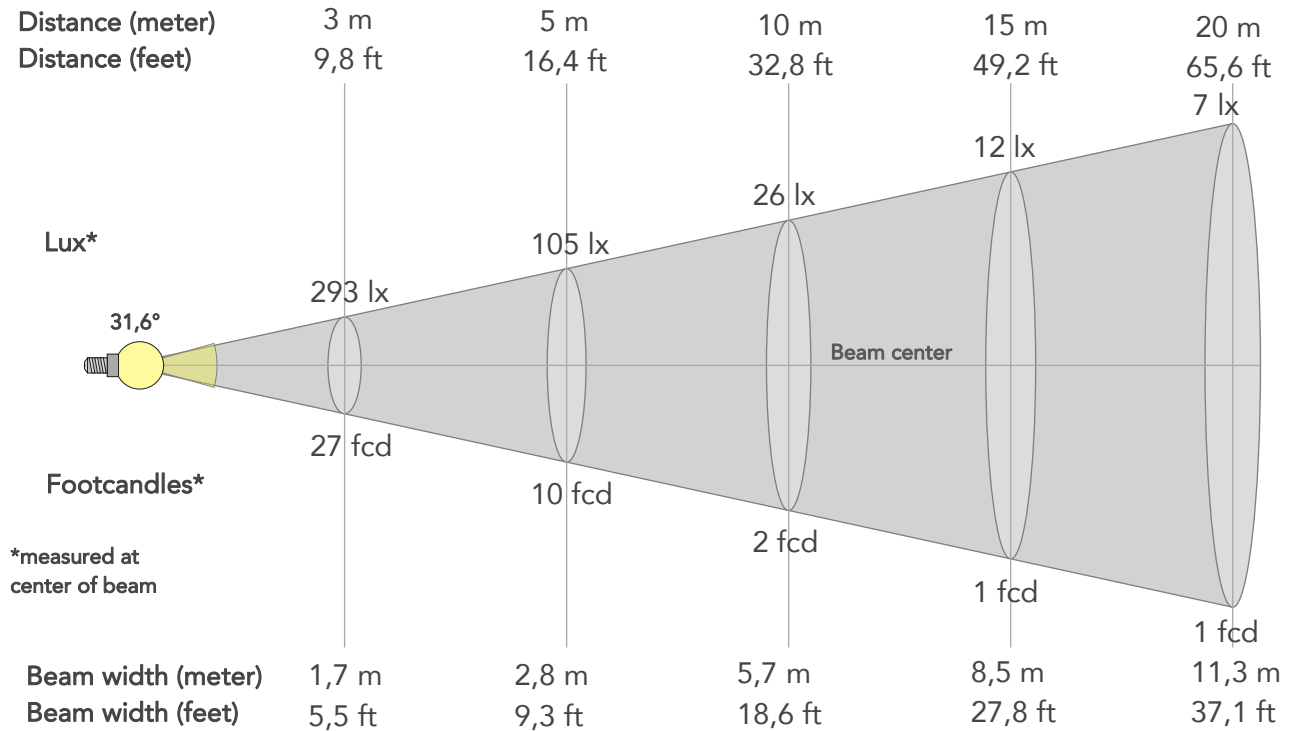
Rg 111,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	9%	-3%
2	91	3%	-4%
3	90	3%	2%
4	87	2%	8%
5	82	6%	9%
6	81	12%	5%
7	84	10%	-3%
8	89	3%	-6%
9	92	-4%	-2%
10	86	-6%	6%
11	73	-1%	17%
12	76	1%	17%
13	79	7%	18%
14	76	11%	11%
15	75	23%	7%
16	81	11%	-3%



BEAM DETAILS

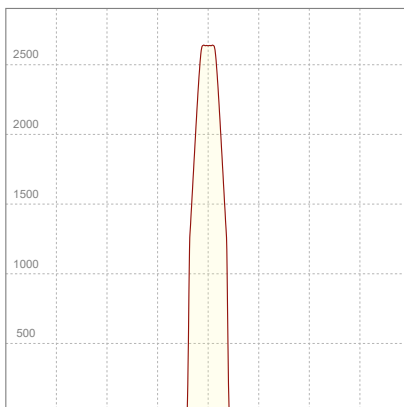
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31,6°	36,2°	37°	99,0%	98,8%



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	2637lx	659lx	293lx	165lx	105lx	47lx	26lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	245fcd	61fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,6m	1,1m	1,7m	2,3m	2,8m	4,2m	5,7m	8,5m	11,3m	14,2m	17m	22,6m	28,3m
Beam wid.	1,9ft	3,7ft	5,5ft	7,4ft	9,3ft	13,9ft	18,6ft	27,8ft	37,1ft	46,4ft	55,7ft	74,3ft	92,8ft

LINEAR DISTRIBUTION DIAGRAM

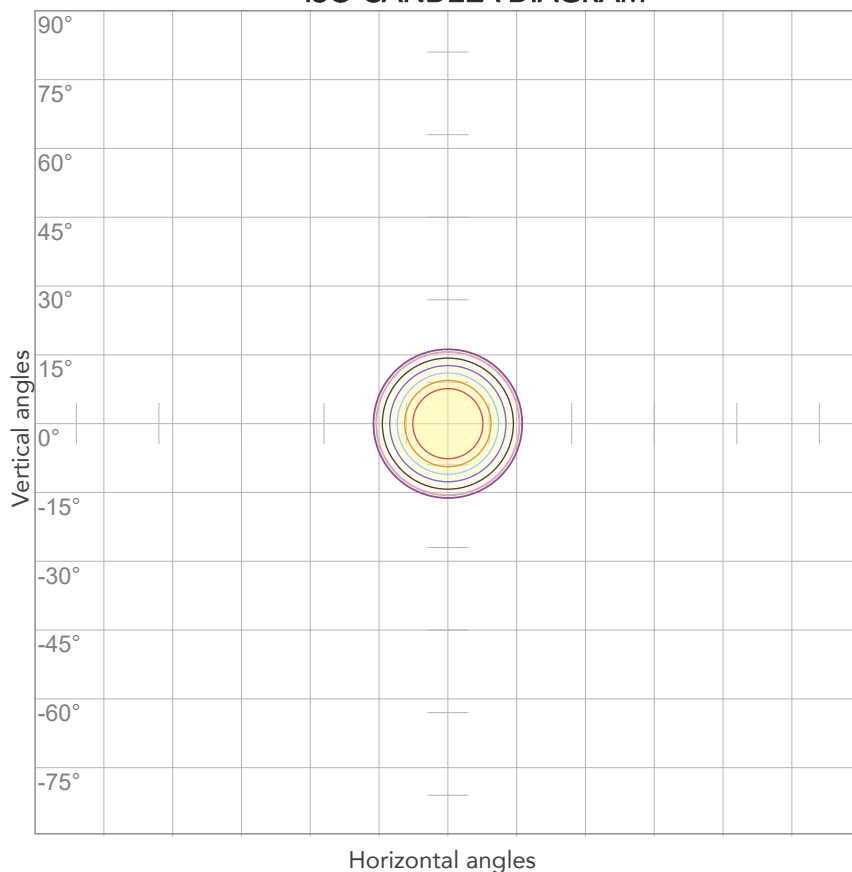


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,184A	38,0W	0,9	15lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



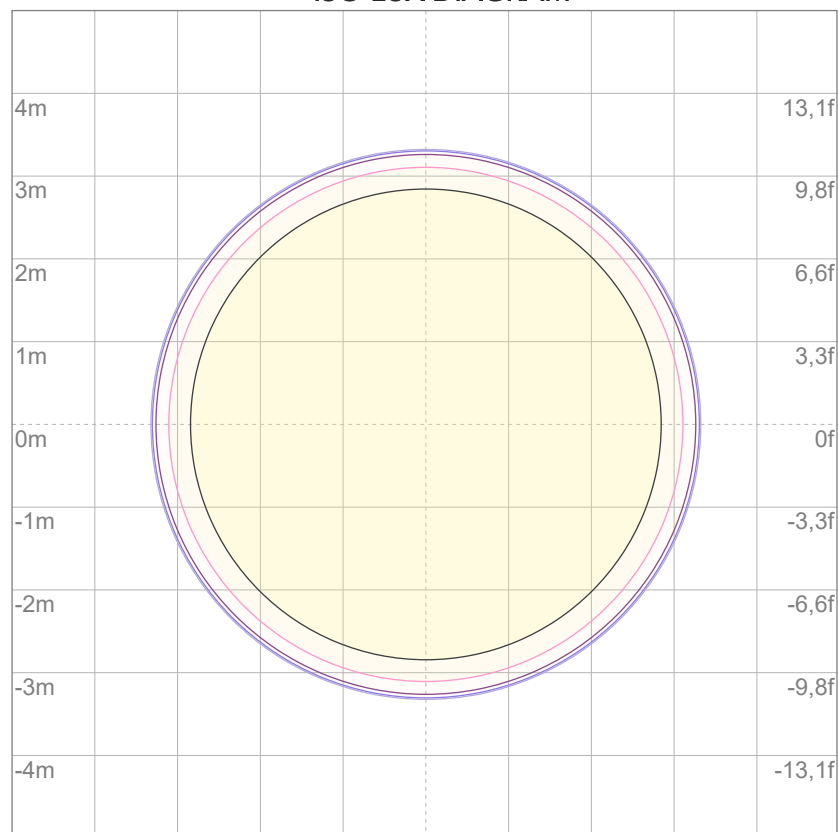
10%	264 cd
20%	527 cd
30%	791 cd
40%	1055 cd
50%	1318 cd
60%	1582 cd
70%	1846 cd
80%	2109 cd

Conditions:

Number of c-planes: 2

Candela at center: 2637 cd

ISO LUX DIAGRAM



3%	0,791 lx
5%	1,32 lx
10%	2,64 lx
30%	7,91 lx
50%	13,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 26,4 lx

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