PROLiGHTS

Photometric Test Report



EclDisplay XBFC

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

PROFILE LENS 50° 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:

680 lm

Peak candela output:

1373 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

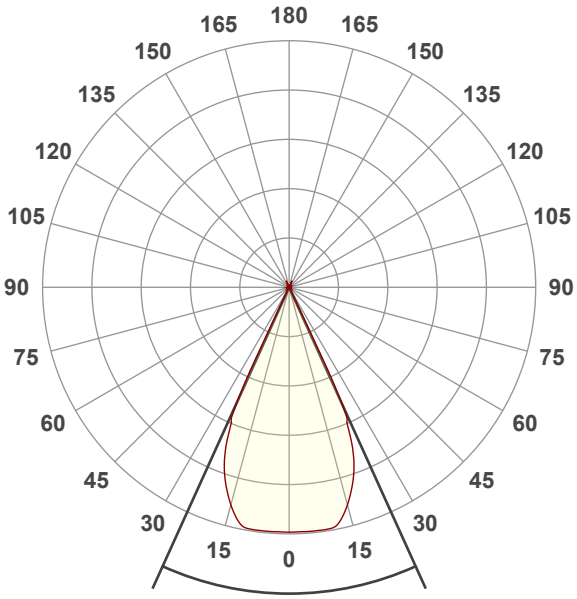
Full On

Operator:

Giuseppe della Peruta

Date and time:

24/07/2025 14:00:00

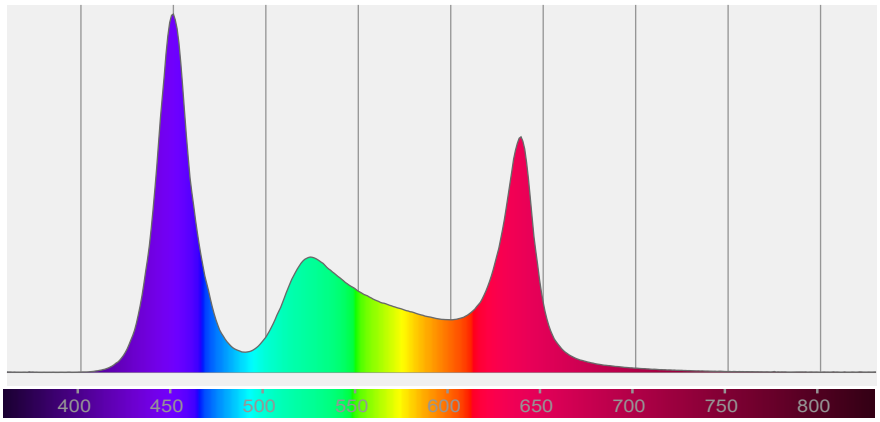


Beam angle 50%: 48,8°

Field angle 10%: 51,6°

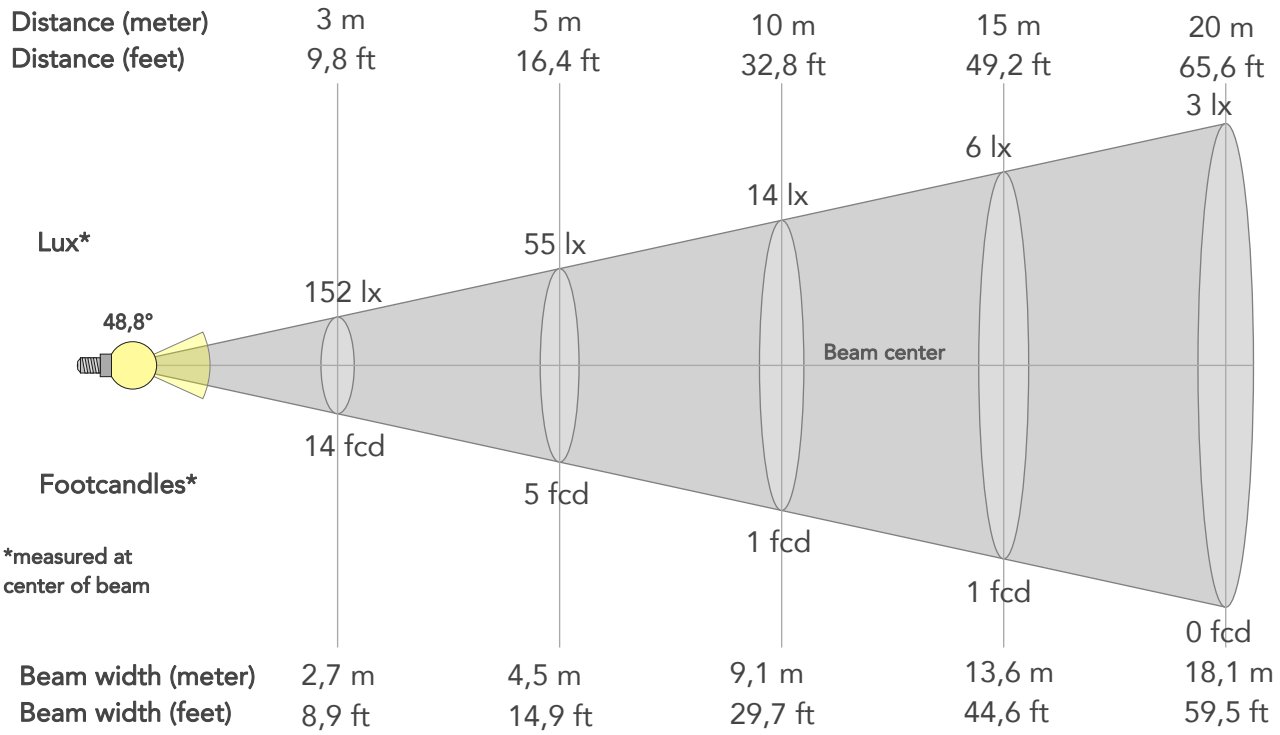
Cut off angle 2.5%: 52°

Spectra



BEAM DETAILS

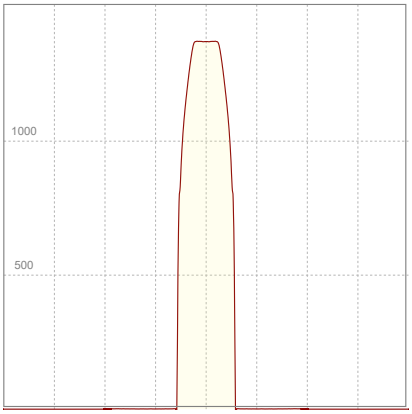
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,8°	51,6°	52°	99,4%	99,3%



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	1372lx	343lx	152lx	86lx	55lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	127fcd	32fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,1m	22,7m	27,2m	36,3m	45,3m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,3ft	29,7ft	44,6ft	59,5ft	74,4ft	89,2ft	119ft	148,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,217A	46,0W	0,93	15lm/W

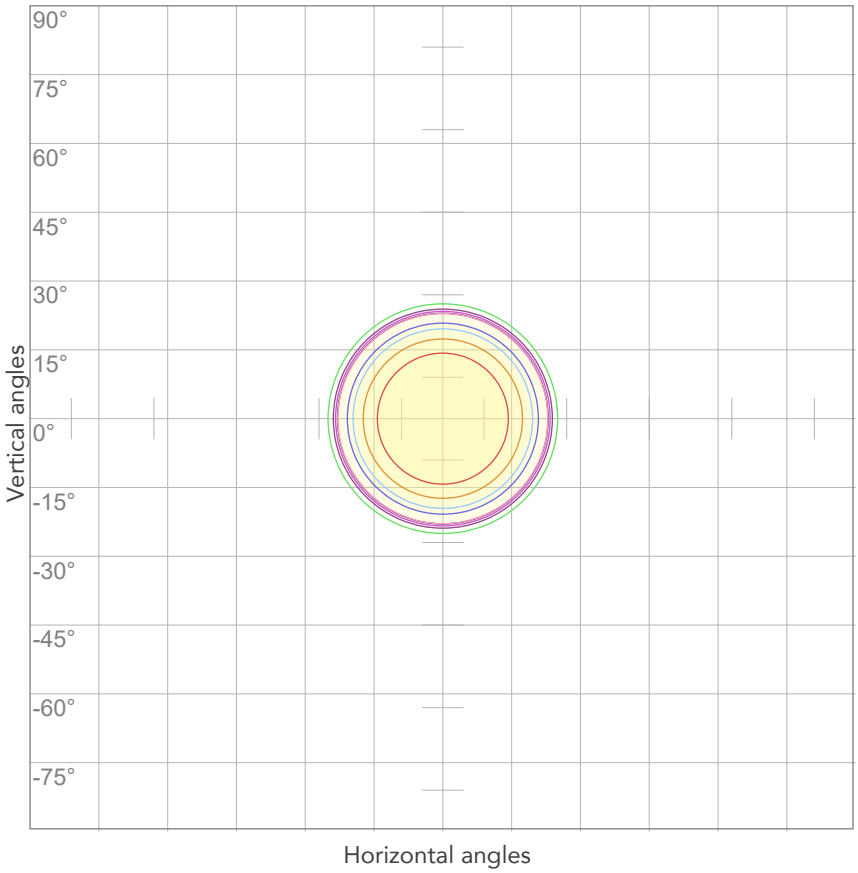
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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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ISO DIAGRAMS

ISO CANDELA DIAGRAM



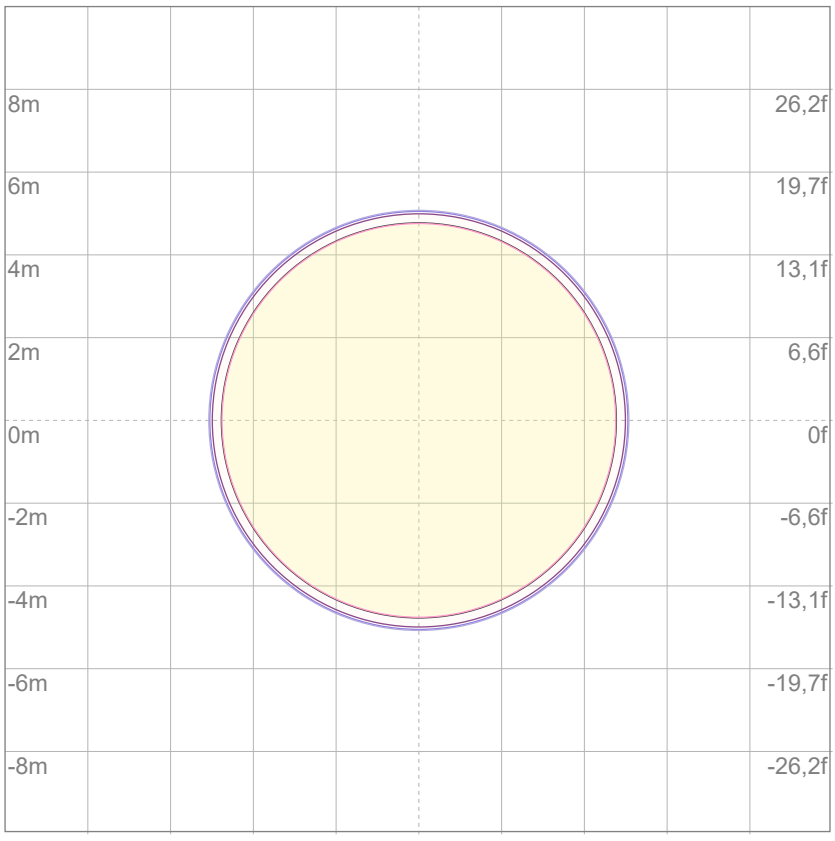
10%	137 cd
20%	274 cd
30%	411 cd
40%	549 cd
50%	686 cd
60%	823 cd
70%	960 cd
80%	1097 cd

Conditions:

Number of c-planes: 2

Candela at center: 1372 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,411 lx
5%	0,686 lx
10%	1,37 lx
30%	4,11 lx
50%	6,86 lx

Conditions:

Number of c-planes: 2

Lux at center: 13,7 lx

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

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Total lumen output:

110 lm

Peak candela output:

217 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

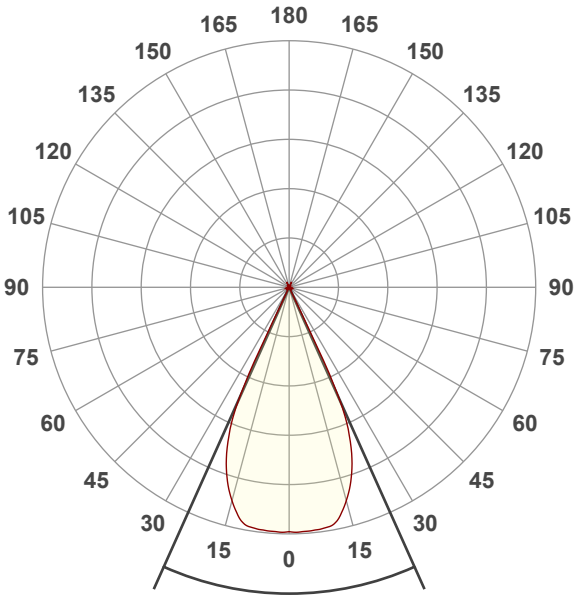
Red

Operator:

Giuseppe della Peruta

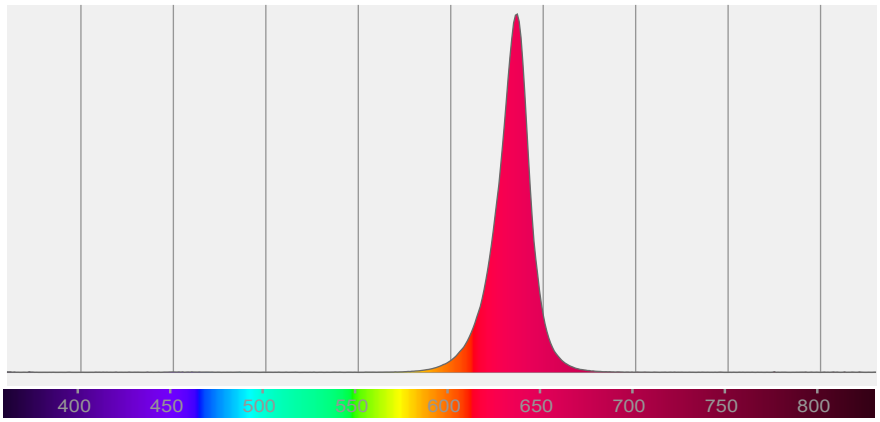
Date and time:

24/07/2025 14:03:19



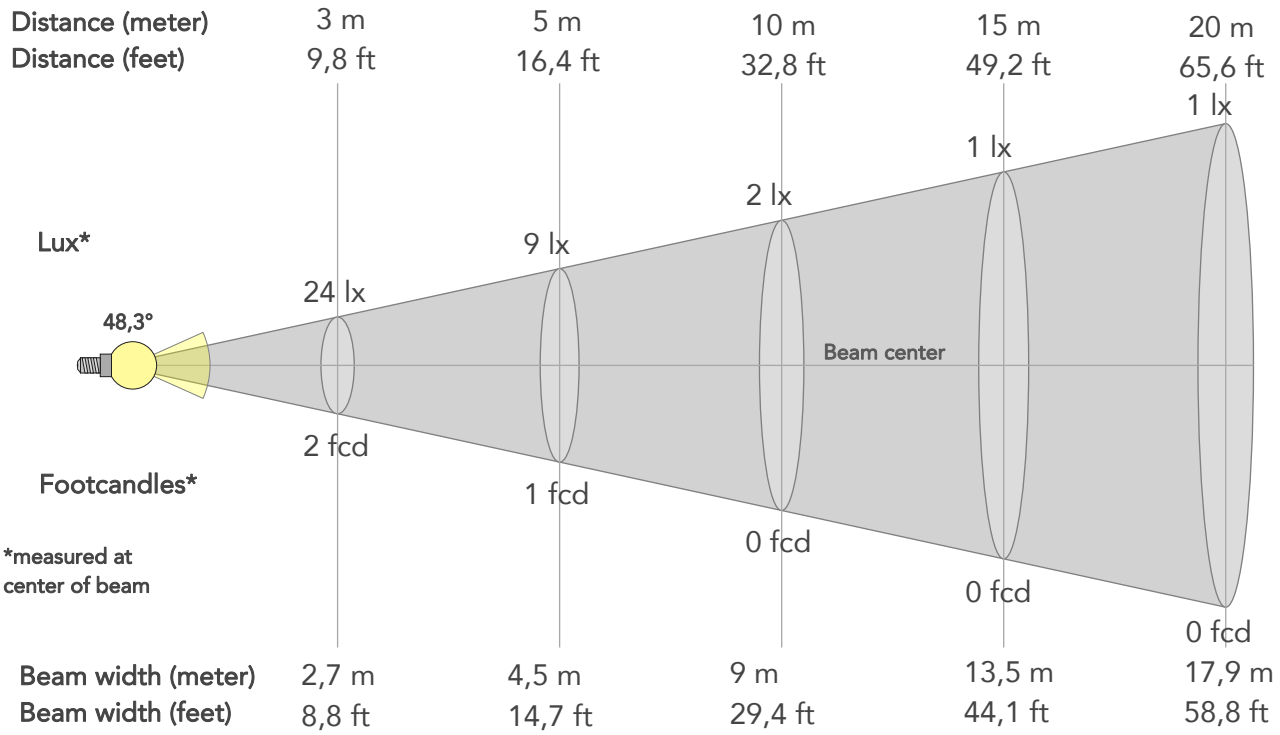
Beam angle 50%: 48,3°
Field angle 10%: 51,7°
Cut off angle 2.5%: 52,1°

Spectra



BEAM DETAILS

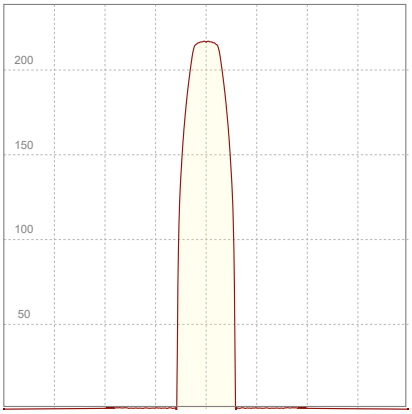
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,3°	51,7°	52,1°	96,2%	95,6%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	216lx	54lx	24lx	14lx	9lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	20fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,7m	9m	13,5m	17,9m	22,4m	26,9m	35,9m	44,8m
Beam wid.	3ft	5,9ft	8,8ft	11,8ft	14,7ft	22,1ft	29,4ft	44,1ft	58,8ft	73,6ft	88,3ft	117,7ft	147,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,077A	8,9W	0,5	12lm/W

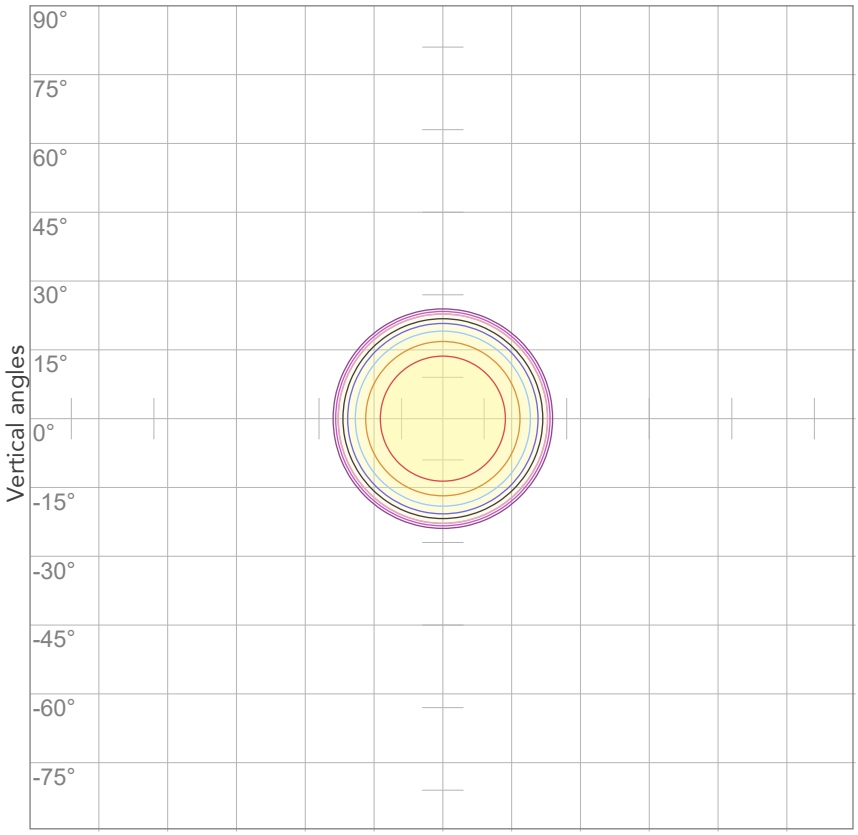
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



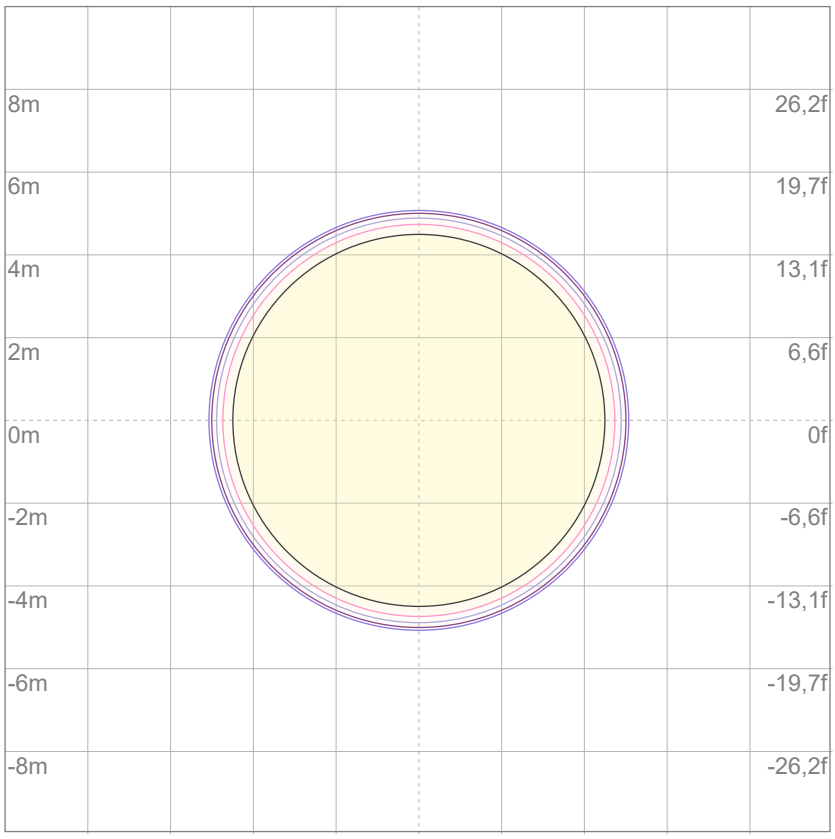
10%	22 cd
20%	43 cd
30%	65 cd
40%	87 cd
50%	108 cd
60%	130 cd
70%	151 cd
80%	173 cd

Conditions:

Number of c-planes: 2

Candela at center: 216 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	64,9m lx
5%	0,108 lx
10%	0,216 lx
30%	0,649 lx
50%	1,08 lx

Conditions:

Number of c-planes: 2

Lux at center: 2,16 lx

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



Total lumen output:

152 lm

Peak candela output:

305 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

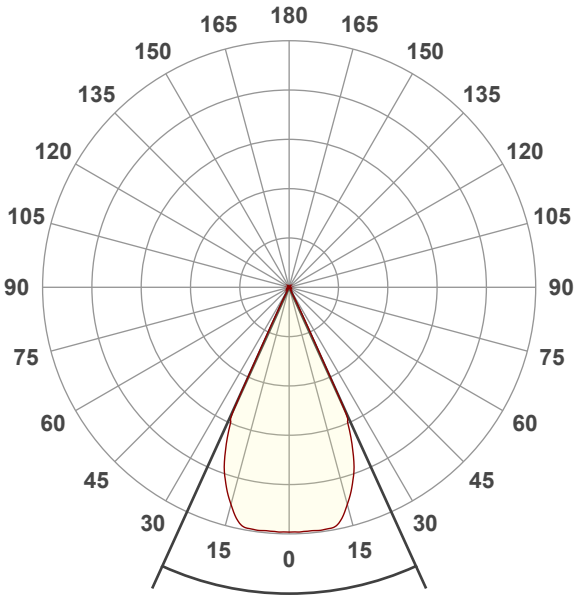
Green

Operator:

Giuseppe della Peruta

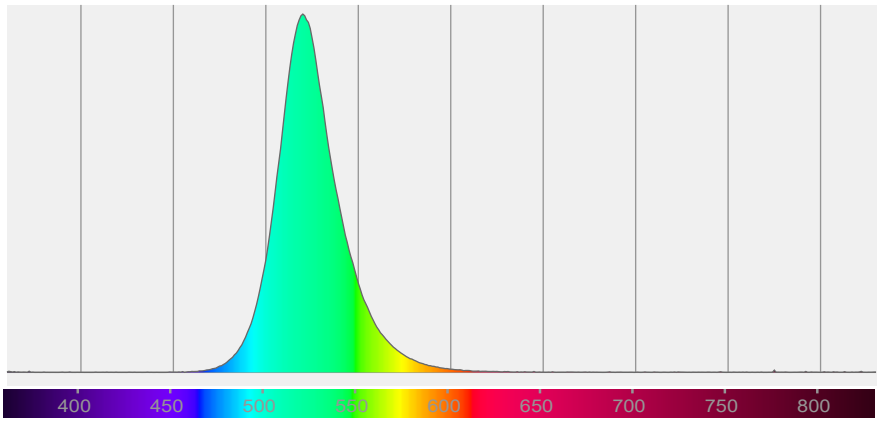
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24/07/2025 14:05:18



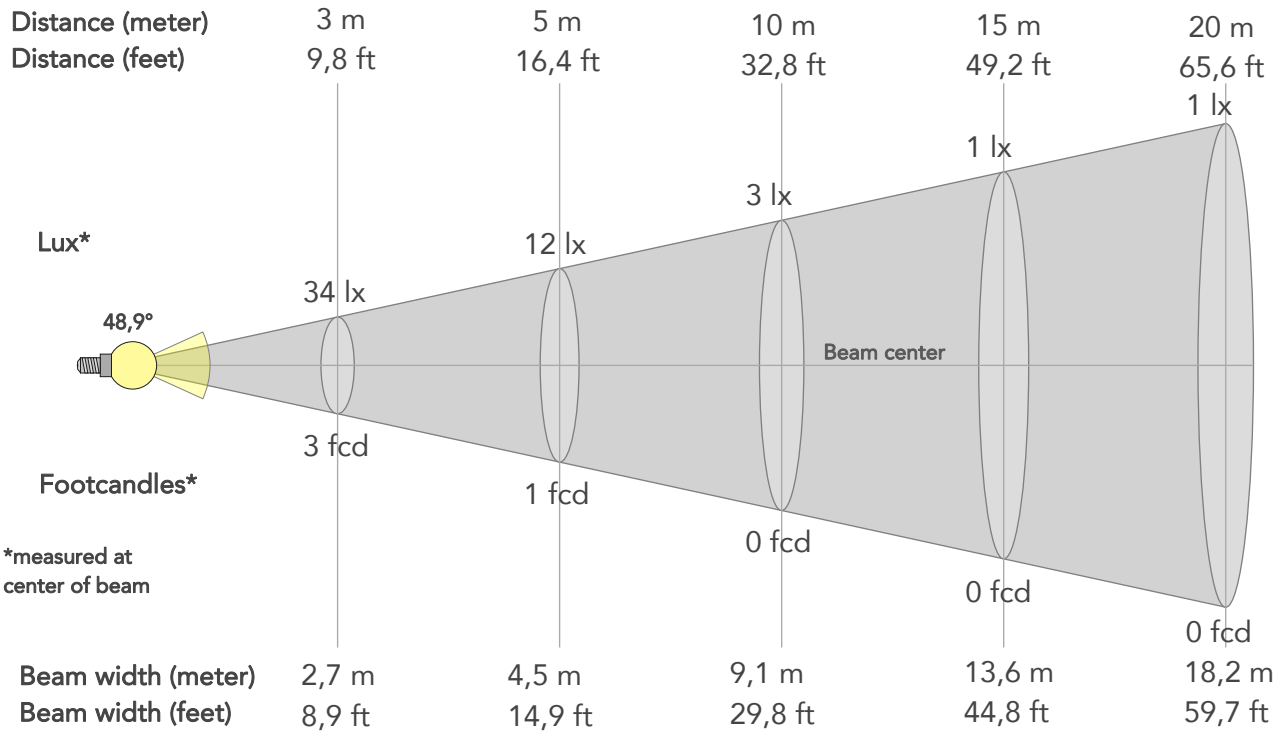
Beam angle 50%: 48,9°
Field angle 10%: 51,7°
Cut off angle 2.5%: 52,7°

Spectra



BEAM DETAILS

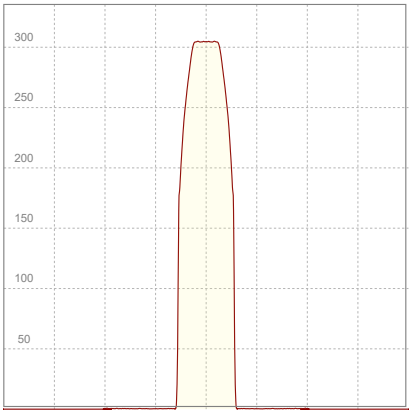
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,9°	51,7°	52,7°	99,1%	98,7%



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	305lx	76lx	34lx	19lx	12lx	5lx	3lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	28fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,2m	22,7m	27,3m	36,4m	45,5m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,4ft	29,8ft	44,8ft	59,7ft	74,6ft	89,5ft	119,4ft	149,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,080A	10,2W	0,56	15lm/W

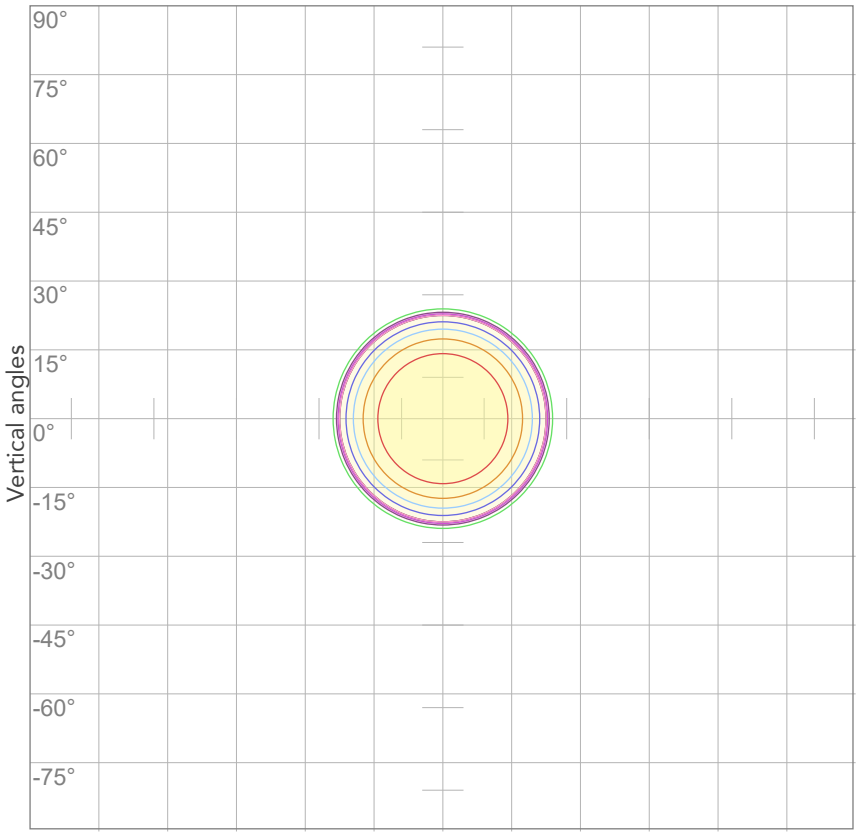
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04026 - Minturno (LT) ITALY
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



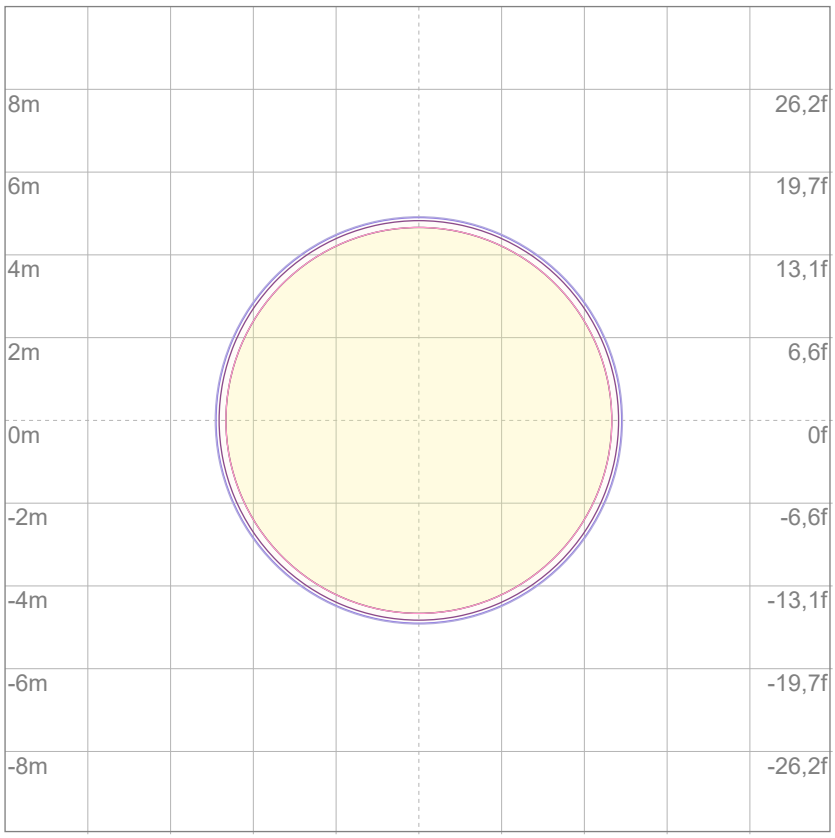
10%	30 cd
20%	61 cd
30%	91 cd
40%	122 cd
50%	152 cd
60%	183 cd
70%	213 cd
80%	244 cd

Conditions:

Number of c-planes: 2

Candela at center: 305 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	91,4m lx
5%	0,152 lx
10%	0,305 lx
30%	0,914 lx
50%	1,52 lx

Conditions:

Number of c-planes: 2

Lux at center: 3,05 lx

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

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Total lumen output:

49,9 lm

Peak candela output:

90,8 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

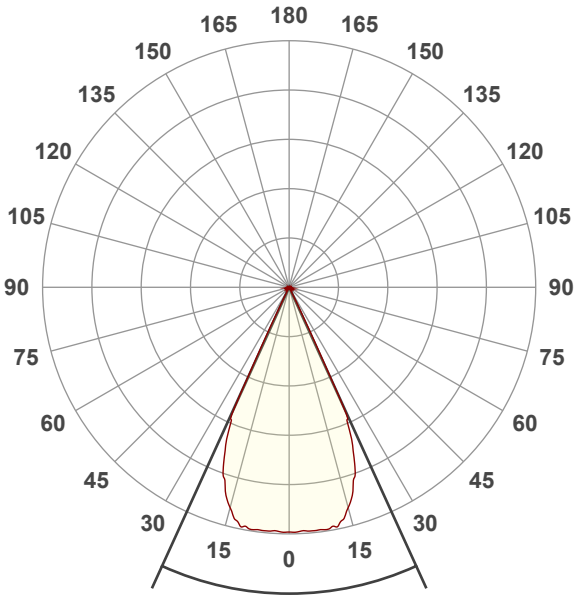
Blue

Operator:

Giuseppe della Peruta

Date and time:

24/07/2025 14:07:39

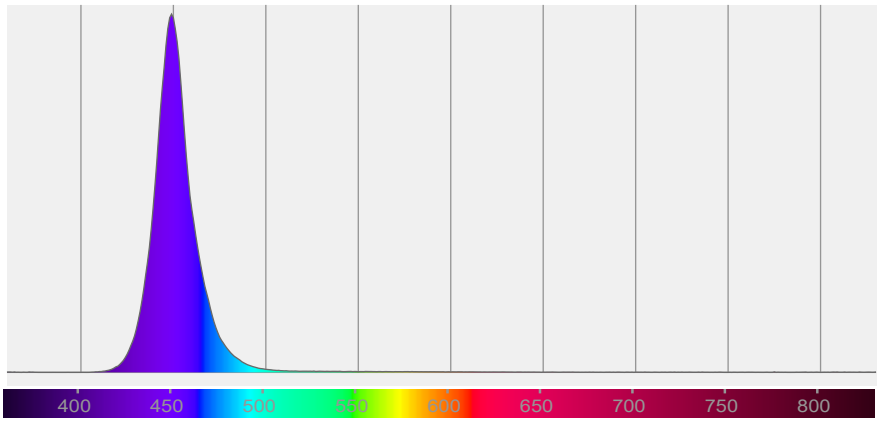


Beam angle 50%: 49°

Field angle 10%: 51,8°

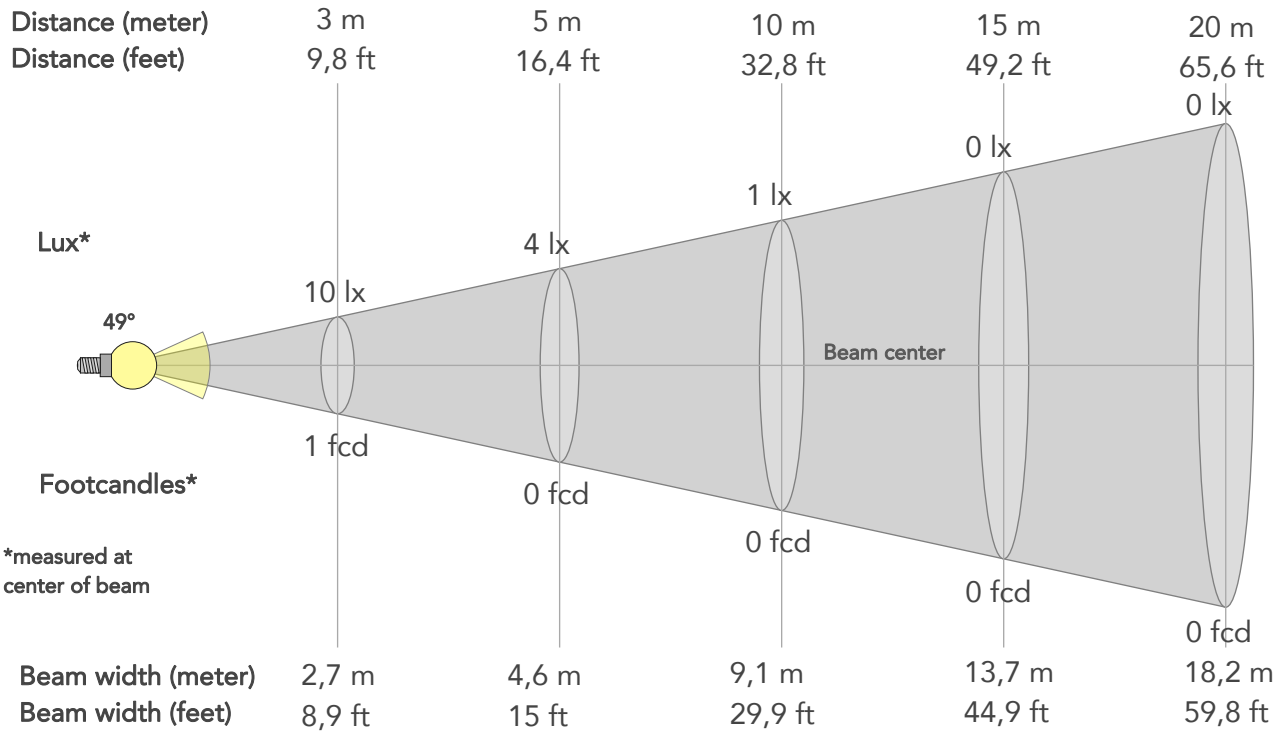
Cut off angle 2.5%: 52,6°

Spectra



BEAM DETAILS

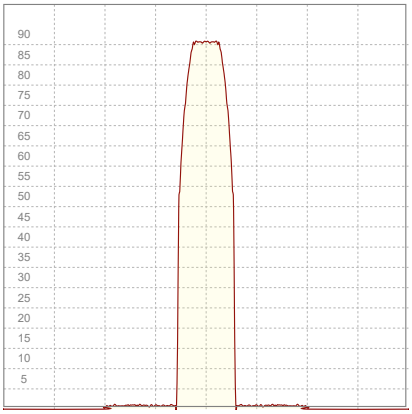
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49°	51,8°	52,6°	94,4%	92,1%



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	91lx	23lx	10lx	6lx	4lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
Footcand.	8fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,6m	6,8m	9,1m	13,7m	18,2m	22,8m	27,4m	36,5m	45,6m
Beam wid.	3ft	6ft	8,9ft	11,9ft	15ft	22,4ft	29,9ft	44,9ft	59,8ft	74,8ft	89,7ft	119,6ft	149,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,086A	11,6W	0,59	4lm/W

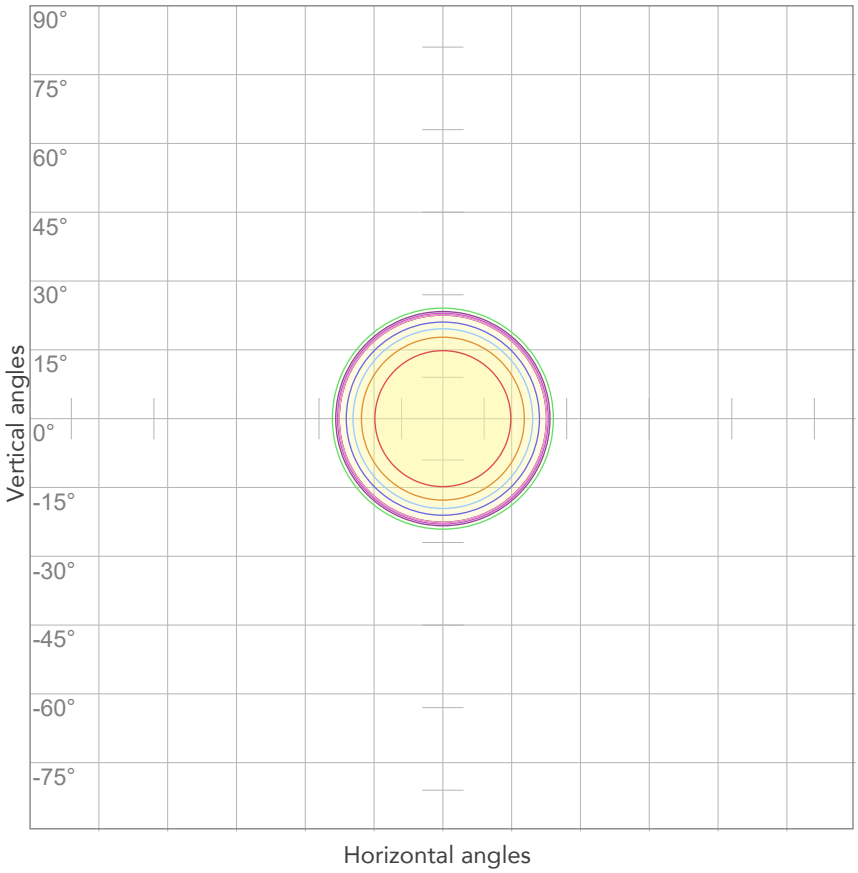
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



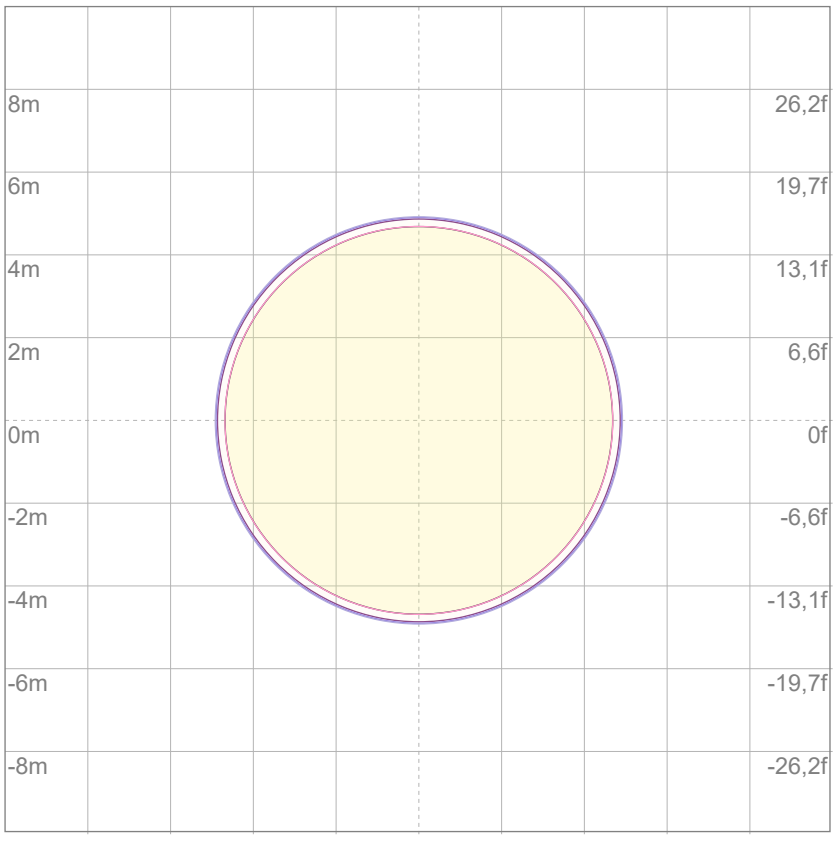
10%	9 cd
20%	18 cd
30%	27 cd
40%	36 cd
50%	45 cd
60%	54 cd
70%	64 cd
80%	73 cd

Conditions:

Number of c-planes: 2

Candela at center: 91 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	27,2m lx
5%	45,4m lx
10%	90,7m lx
30%	0,272 lx
50%	0,454 lx

Conditions:

Number of c-planes: 2

Lux at center: 0,907 lx

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

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Total lumen output:

407 lm

Peak candela output:

819 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

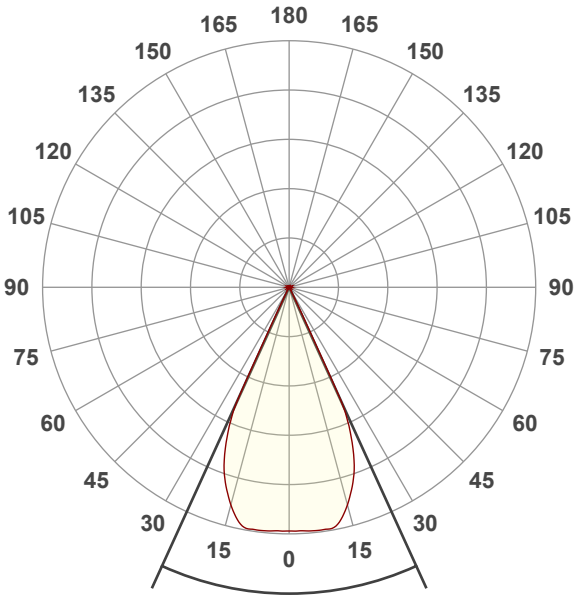
Lime

Operator:

Giuseppe della Peruta

Date and time:

24/07/2025 14:10:16

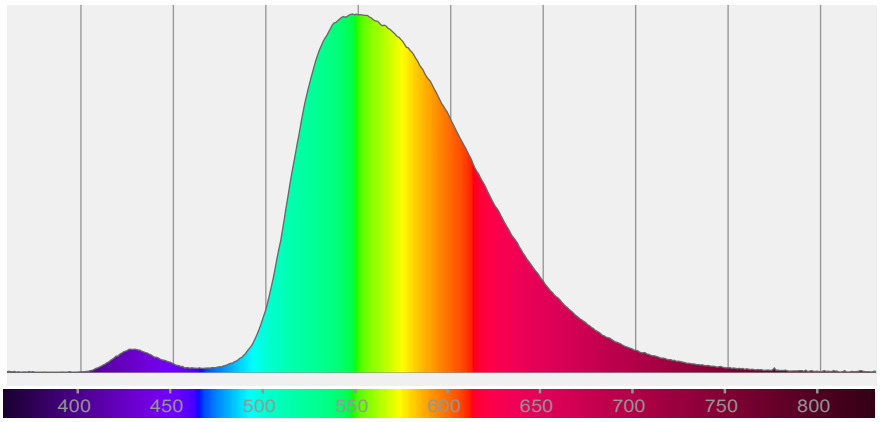


Beam angle 50%: 49°

Field angle 10%: 51,5°

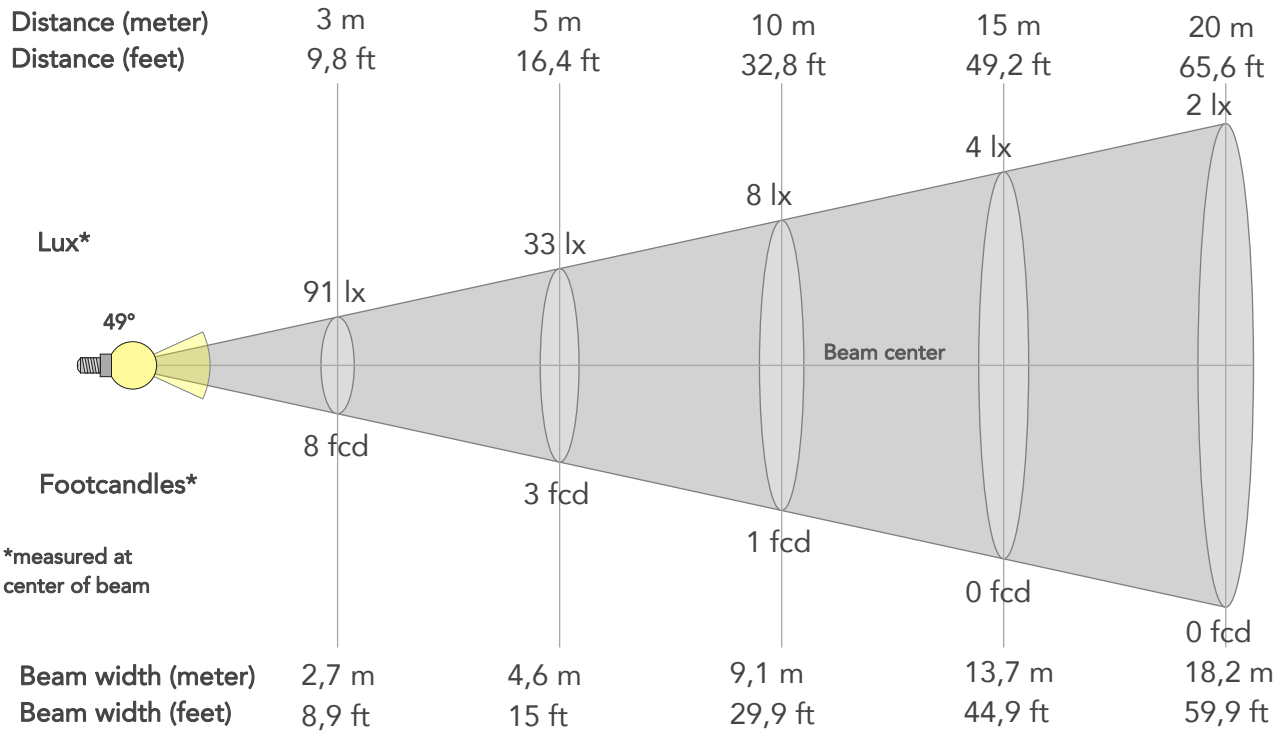
Cut off angle 2.5%: 52,8°

Spectra



BEAM DETAILS

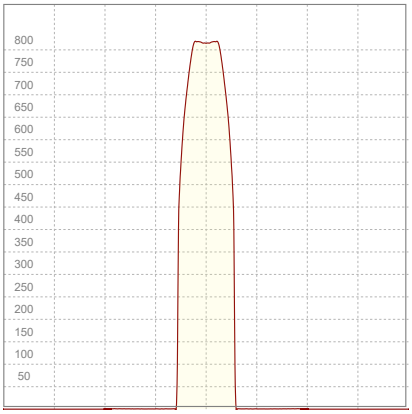
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49°	51,5°	52,8°	99,4%	99,3%



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	815lx	204lx	91lx	51lx	33lx	14lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	76fcd	19fcd	8fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,6m	6,8m	9,1m	13,7m	18,2m	22,8m	27,4m	36,5m	45,6m
Beam wid.	3ft	6ft	8,9ft	12ft	15ft	22,4ft	29,9ft	44,9ft	59,9ft	74,8ft	89,8ft	119,7ft	149,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,108A	19,6W	0,8	21lm/W

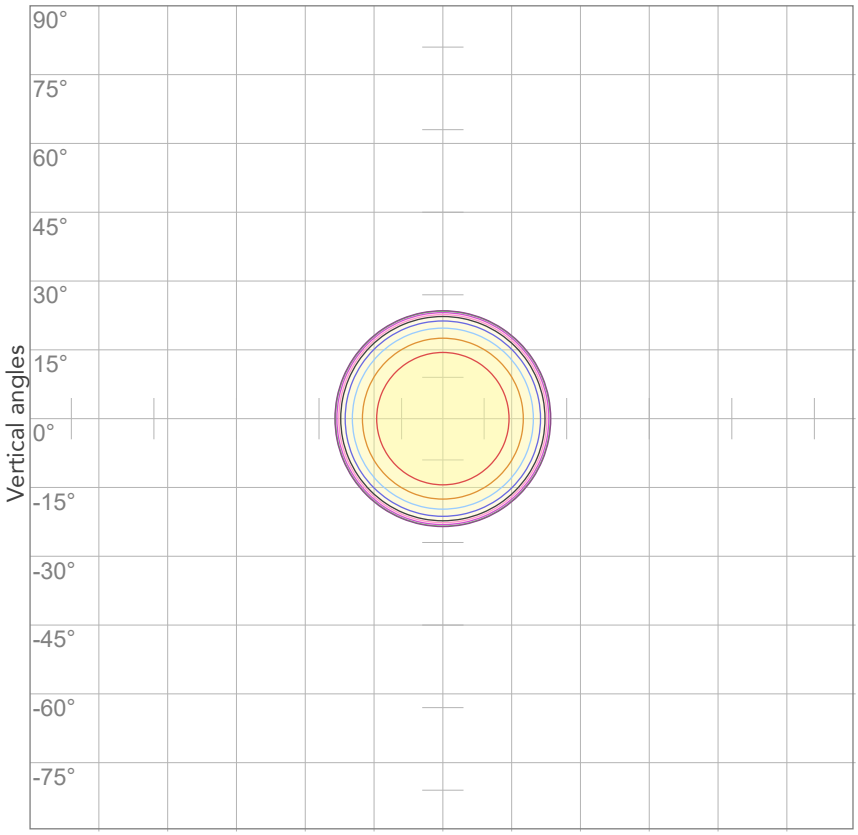
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



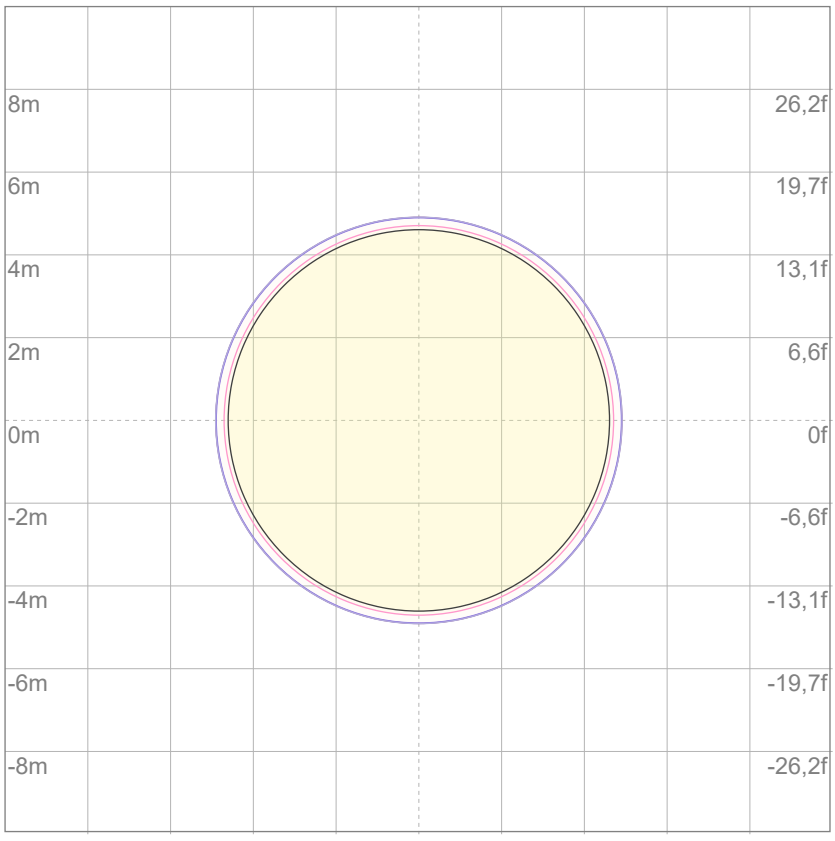
10%	81 cd
20%	163 cd
30%	244 cd
40%	326 cd
50%	407 cd
60%	489 cd
70%	570 cd
80%	652 cd

Conditions:

Number of c-planes: 2

Candela at center: 815 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,244 lx
5%	0,407 lx
10%	0,815 lx
30%	2,44 lx
50%	4,07 lx

Conditions:

Number of c-planes: 2

Lux at center: 8,15 lx

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

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Total lumen output:

413 lm

Peak candela output:

832 cd

Light quality:

CRI: 85,0

Color temperature:

2870 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

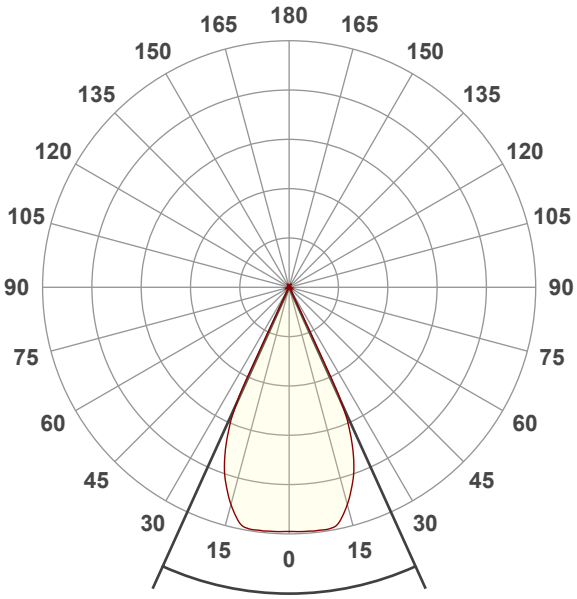
2800K

Operator:

Giuseppe della Peruta

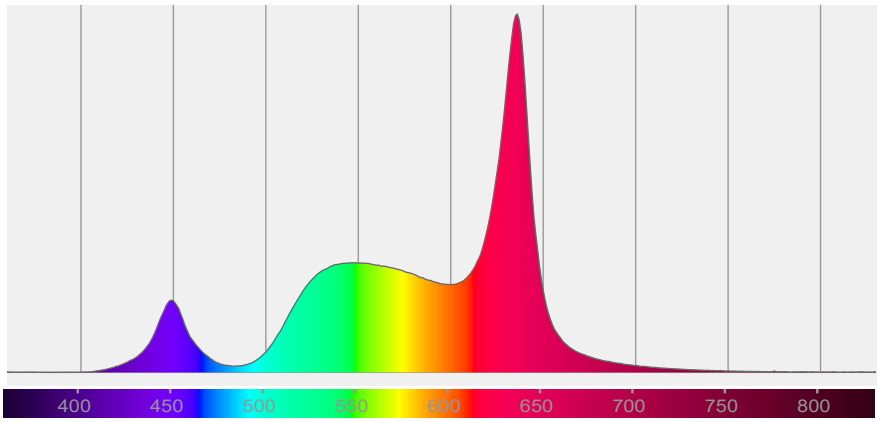
Date and time:

24/07/2025 14:15:49

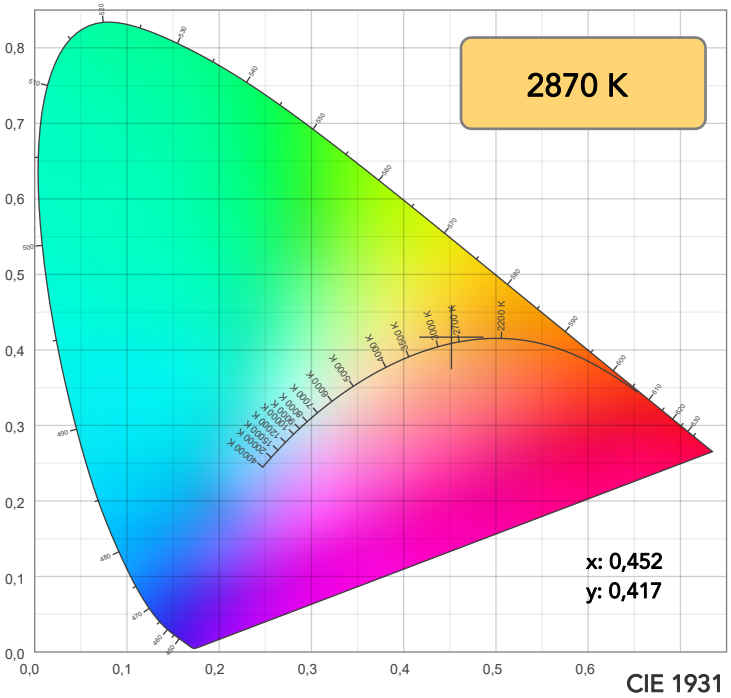


Beam angle 50%: 48,7°
Field angle 10%: 51,5°
Cut off angle 2.5%: 52,3°

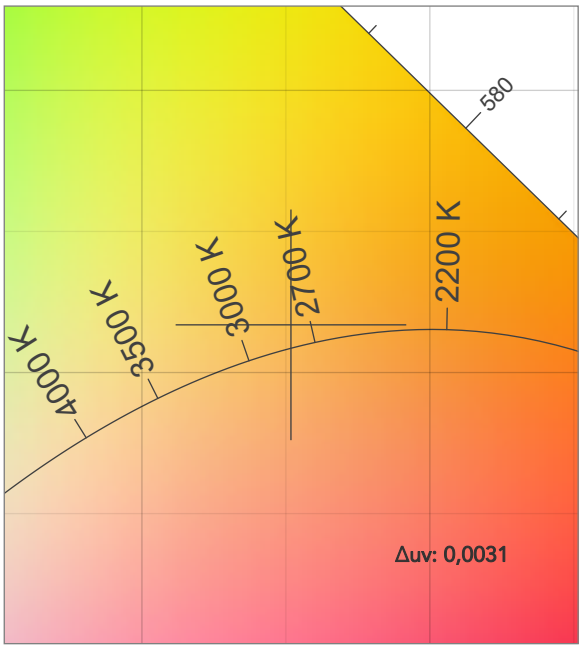
Spectra



COLOR DETAILS

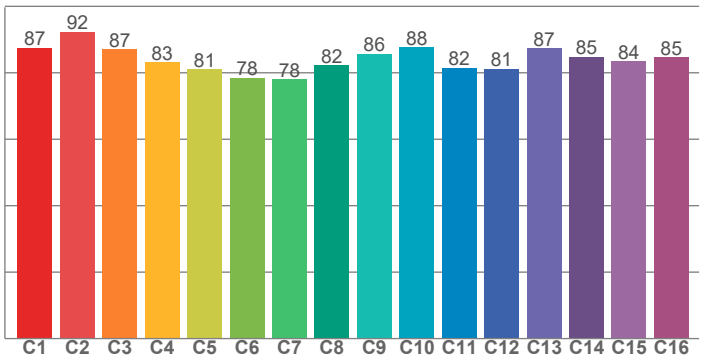


CIE 1931

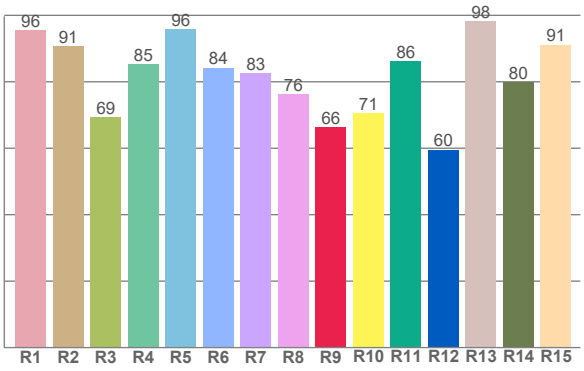


CIE 1931 ZOOM

TM30: 84,6



CRI: 85,0 (R1-R8)



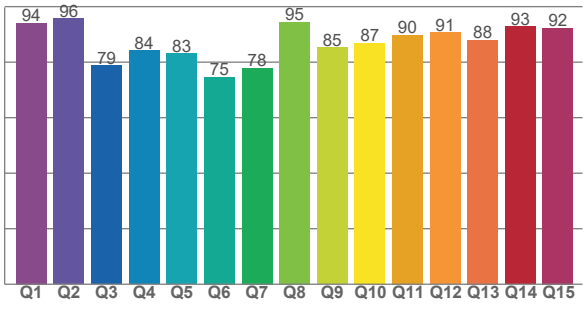
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,6	90,8	69,2	85,3	95,7	84,3	82,5	76,3	66,4	70,6	86,3	59,6	98,3	79,9	91,2

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
87,5	92,3	87,1	83,2	81,1	78,4	78,0	82,3	85,7	87,7	81,5	81,2	87,4	84,8	83,5	84,6

CQS: 85,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,1	95,8	78,8	84,2	83,2	74,6	77,8	94,5	85,3	86,8	89,8	90,6	88,0	92,8	92,4

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2870 K	85,0	66,4	84,6	109,4	85,6	70	0,452	0,417	0,0031

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TM30 DETAILS

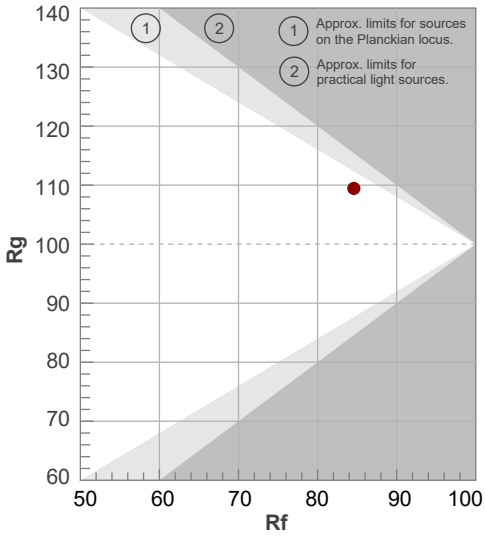
Rf 84,6

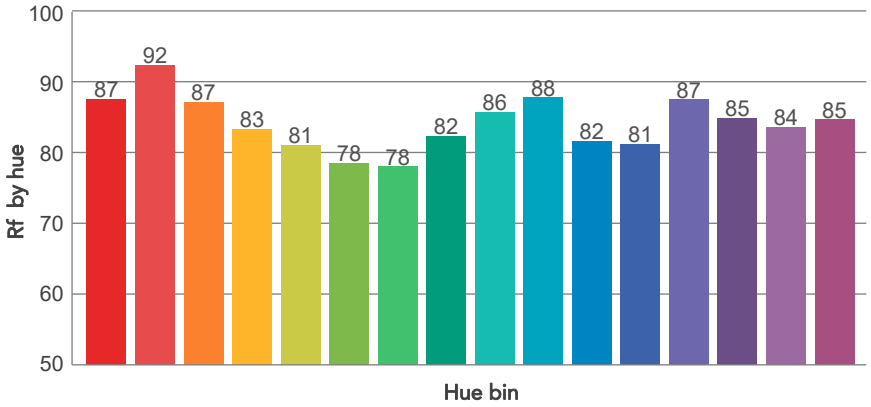
Fidelity index Rf

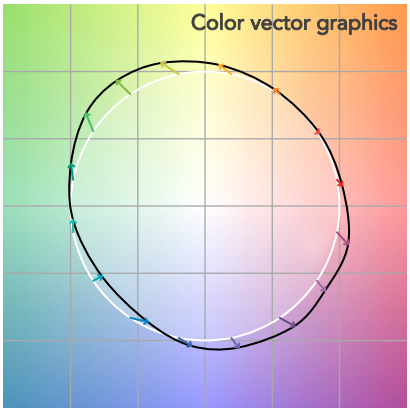
Rg 109,4

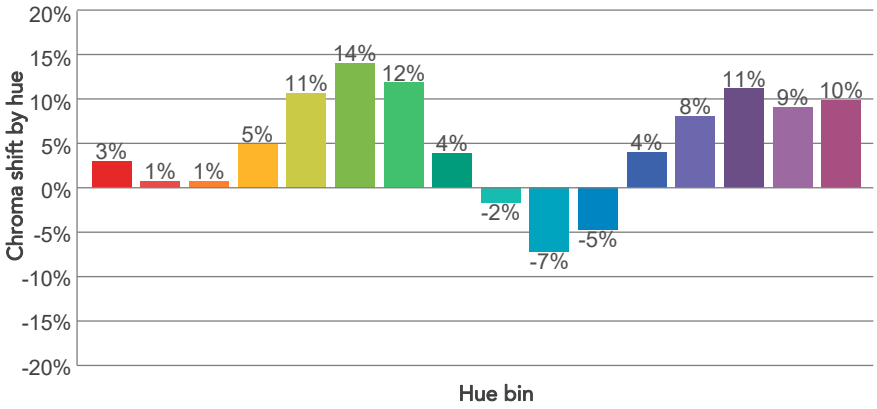
Gammut index

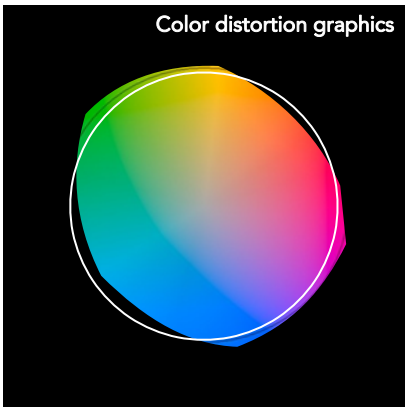
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	87	3%	-5%
2	92	1%	-2%
3	87	1%	6%
4	83	5%	10%
5	81	11%	11%
6	78	14%	3%
7	78	12%	-8%
8	82	4%	-11%
9	86	-2%	-9%
10	88	-7%	1%
11	82	-5%	12%
12	81	4%	10%
13	87	8%	4%
14	85	11%	6%
15	84	9%	-3%
16	85	10%	-7%

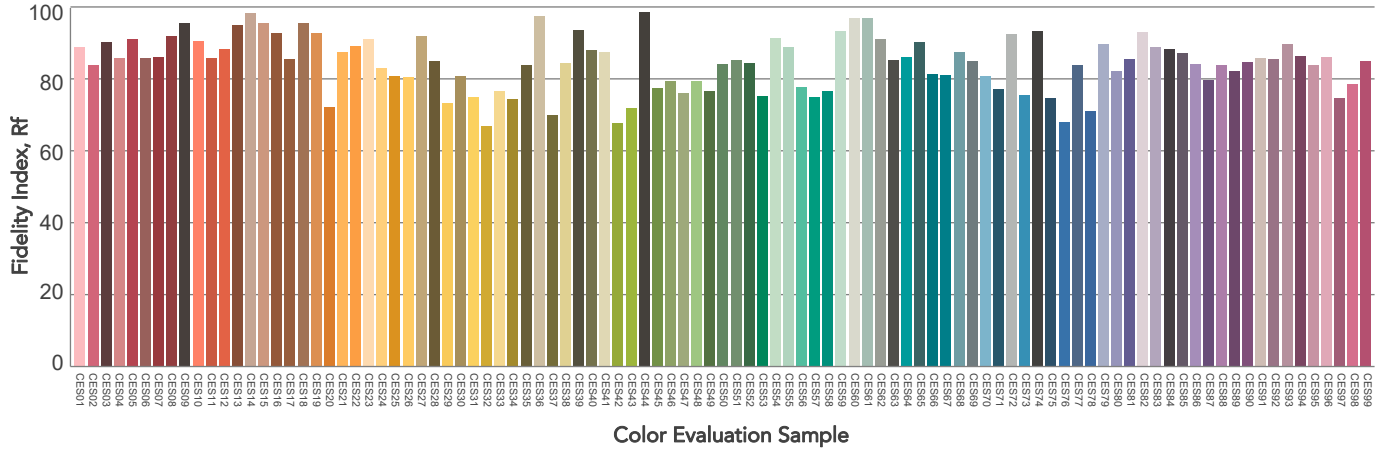












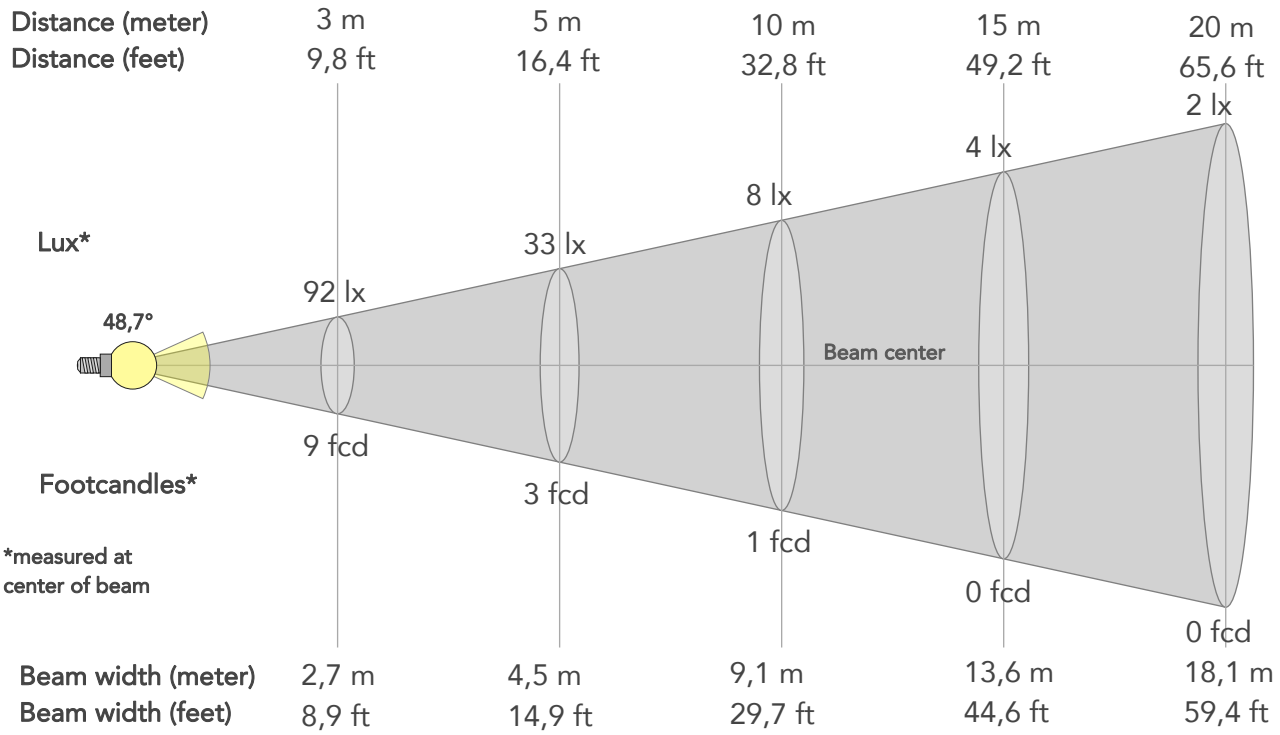
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BEAM DETAILS

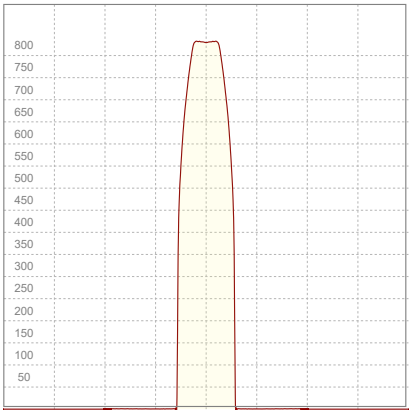
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,7°	51,5°	52,3°	99,4%	99,2%



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	830lx	207lx	92lx	52lx	33lx	15lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	77fcd	19fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,6m	4,5m	6,8m	9,1m	13,6m	18,1m	22,7m	27,2m	36,2m	45,3m
Beam wid.	3ft	6ft	8,9ft	11,9ft	14,9ft	22,3ft	29,7ft	44,6ft	59,4ft	74,3ft	89,2ft	118,9ft	148,6ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,123A	23,1W	0,82	18lm/W

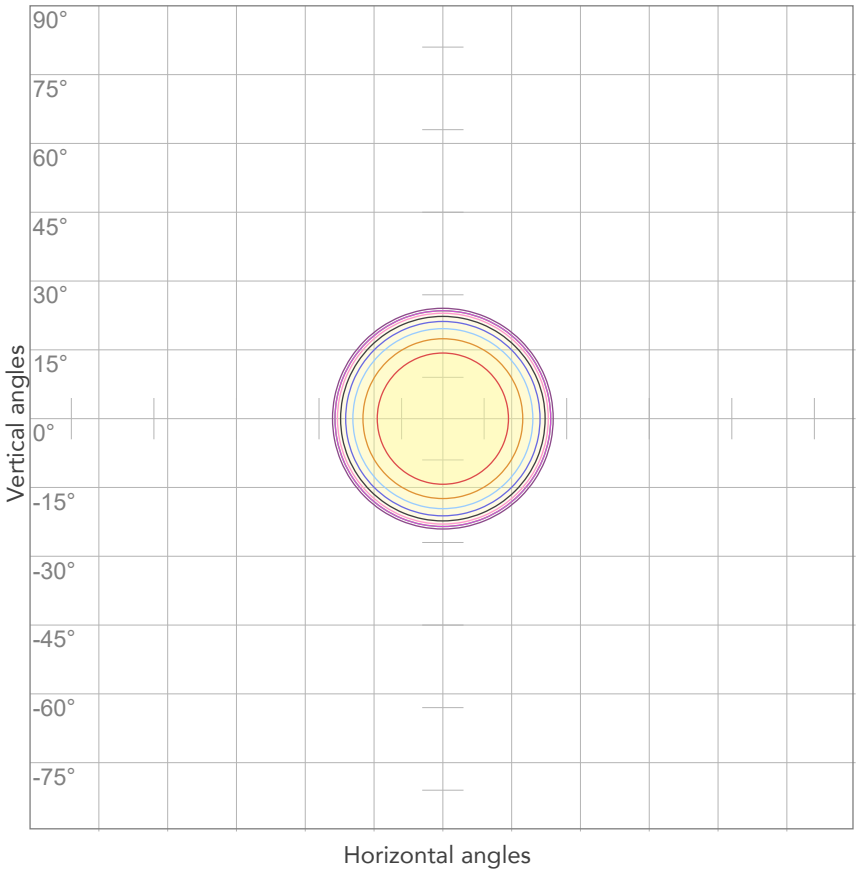
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



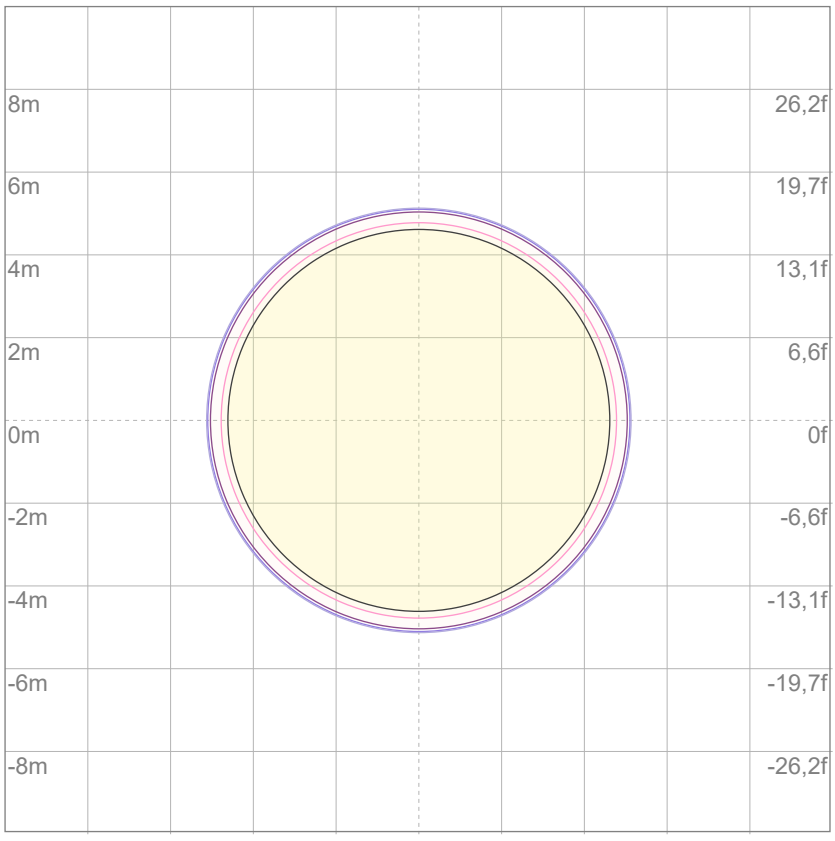
10%	83 cd
20%	166 cd
30%	249 cd
40%	332 cd
50%	415 cd
60%	498 cd
70%	581 cd
80%	664 cd

Conditions:

Number of c-planes: 2

Candela at center: 830 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,249 lx
5%	0,415 lx
10%	0,830 lx
30%	2,49 lx
50%	4,15 lx

Conditions:

Number of c-planes: 2

Lux at center: 8,30 lx

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

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Total lumen output:

459 lm

Peak candela output:

923 cd

Light quality:

CRI: 84,5

Color temperature:

3196 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

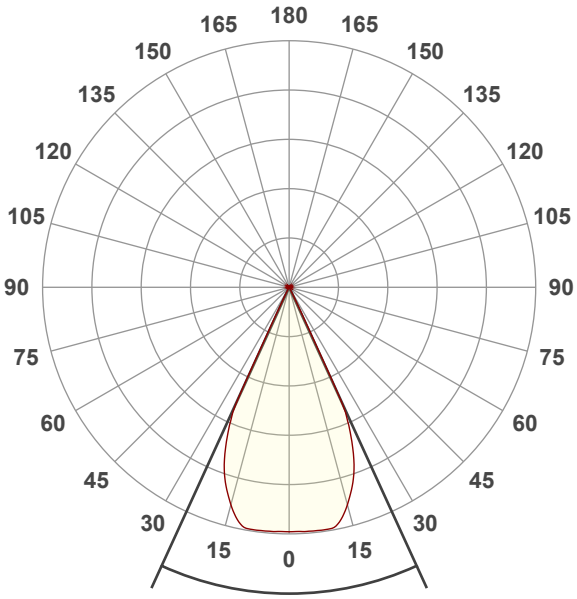
3200K

Operator:

Giuseppe della Peruta

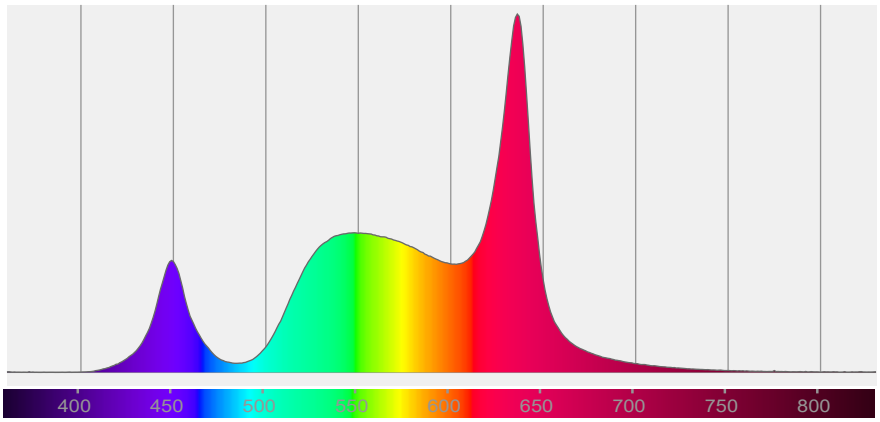
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24/07/2025 14:19:20

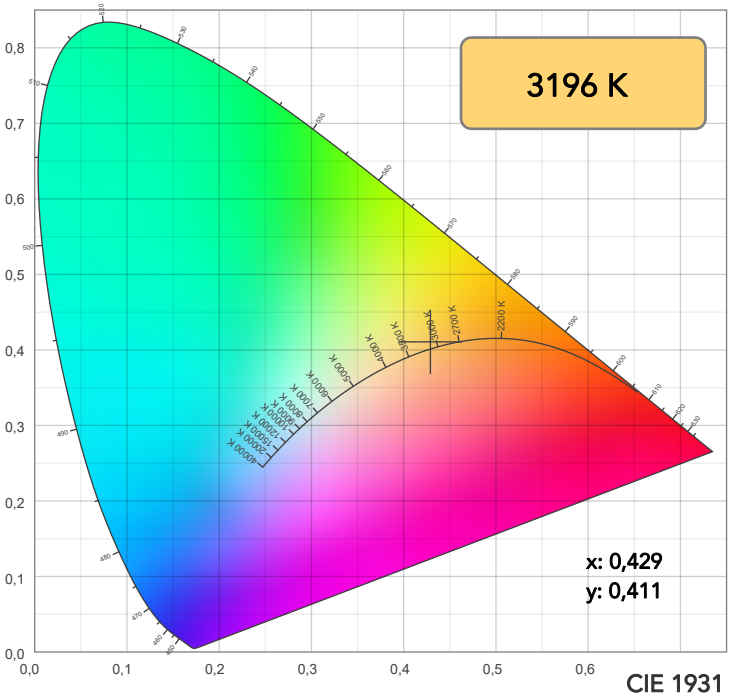


Beam angle 50%: 49,2°
Field angle 10%: 51,5°
Cut off angle 2.5%: 52,8°

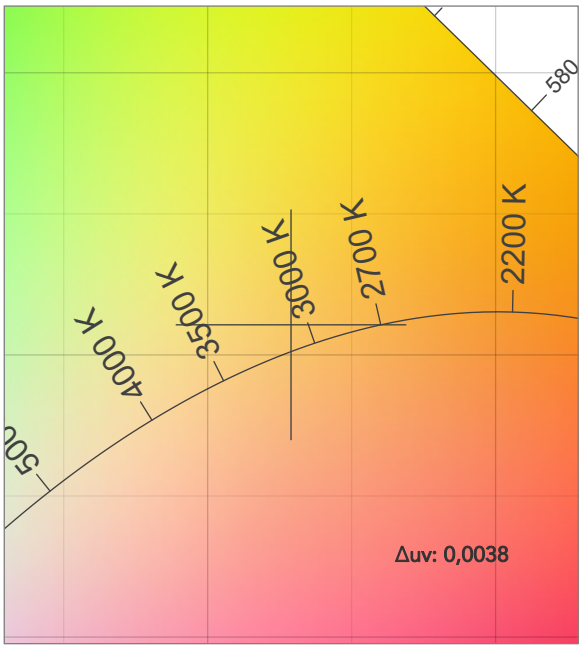
Spectra



COLOR DETAILS

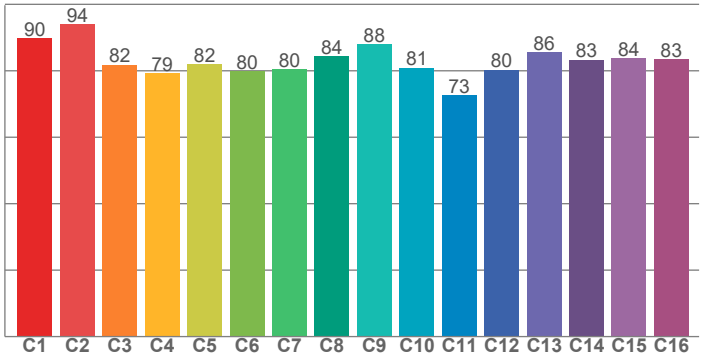


CIE 1931

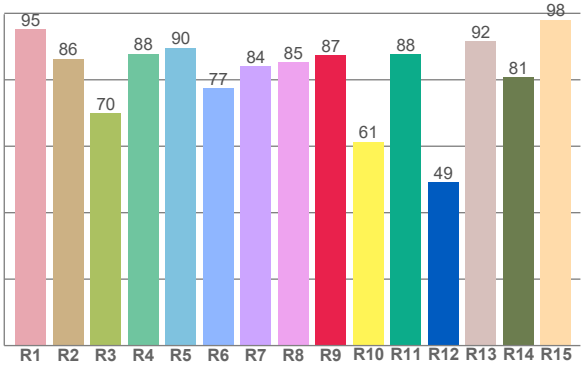


CIE 1931 ZOOM

TM30: 83,3



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
95,2	86,4	69,9	87,9	89,7	77,5	84,1	85,3	87,3	61,3	87,7	49,2	91,5	80,9	98,1

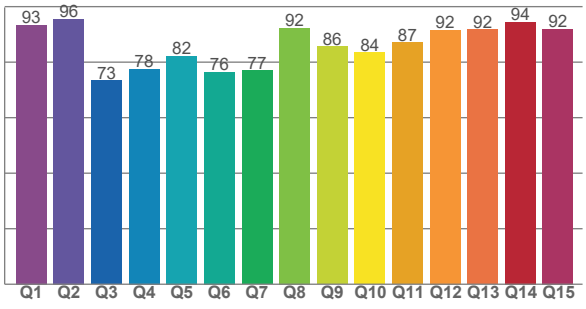
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,8	94,0	81,8	79,3	82,0	79,9	80,4	84,3	87,9	80,9	72,7	80,3	85,6	83,3	83,8	83,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,3	95,6	73,4	77,6	82,3	76,4	77,0	92,4	85,6	83,5	87,0	91,6	91,8	94,4	92,0

CQS: 84,3



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3196 K	84,5	87,3	83,3	107,2	84,3	71	0,429	0,411	0,0038

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TM30 DETAILS

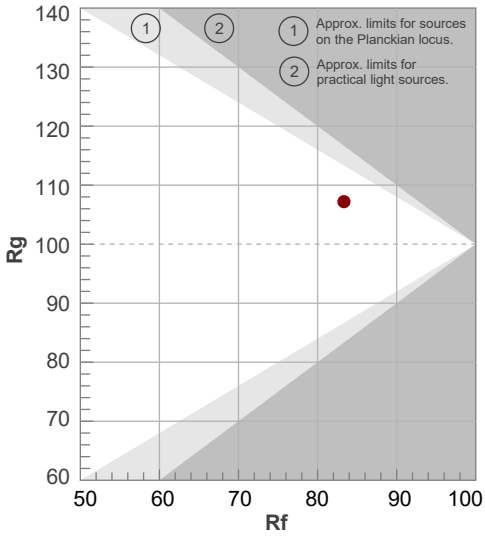
Rf 83,3

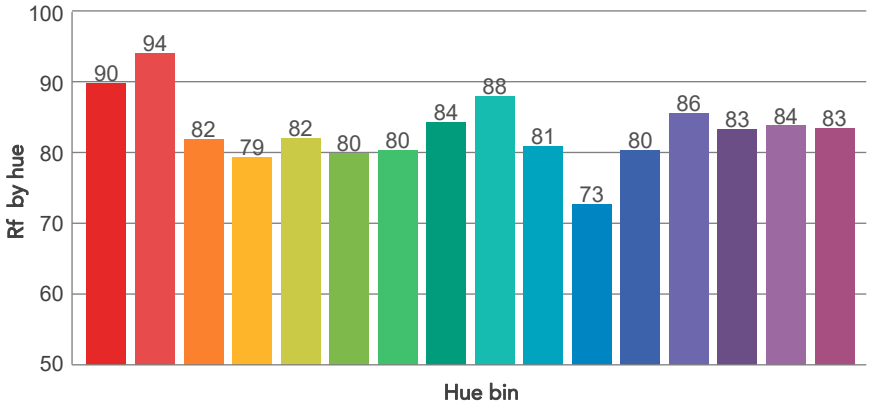
Fidelity index Rf

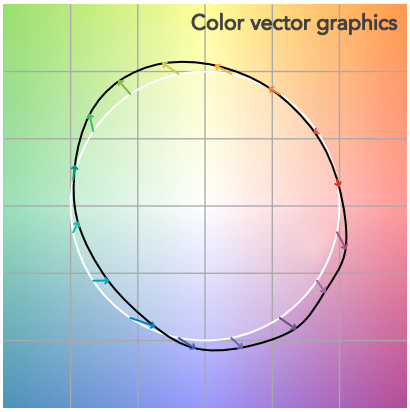
Rg 107,2

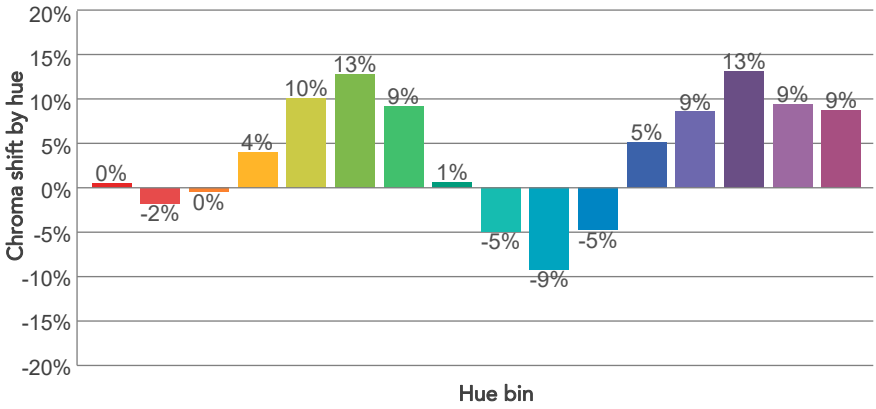
Gammut index

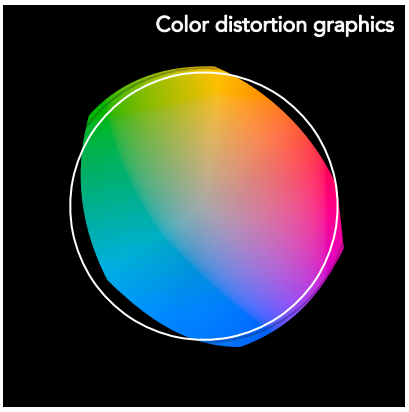
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	90	0%	-5%
2	94	-2%	0%
3	82	0%	9%
4	79	4%	12%
5	82	10%	10%
6	80	13%	2%
7	80	9%	-9%
8	84	1%	-10%
9	88	-5%	-6%
10	81	-9%	6%
11	73	-5%	18%
12	80	5%	13%
13	86	9%	6%
14	83	13%	5%
15	84	9%	-4%
16	83	9%	-10%

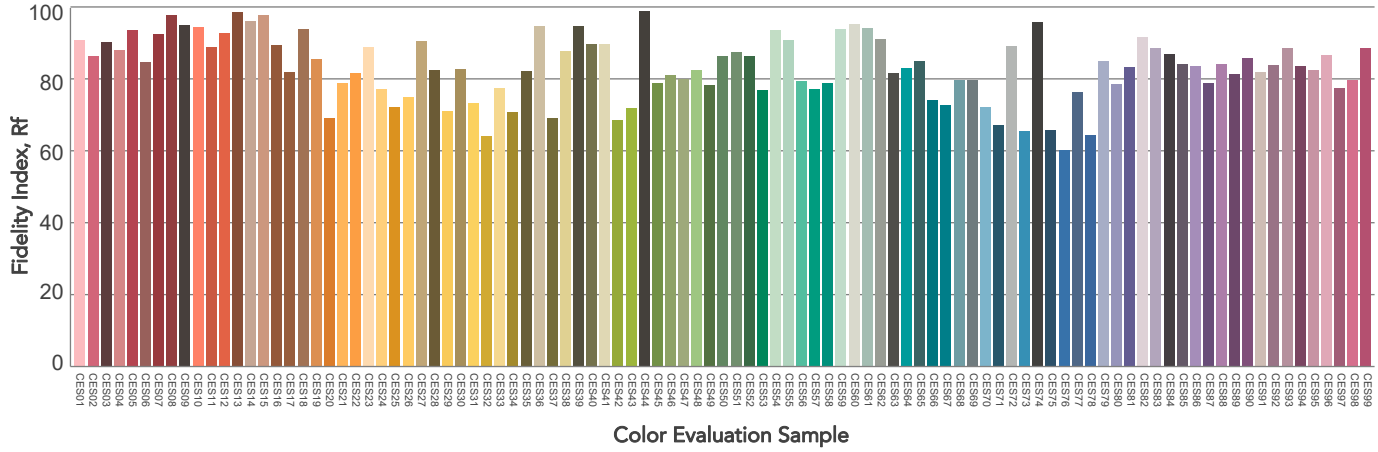












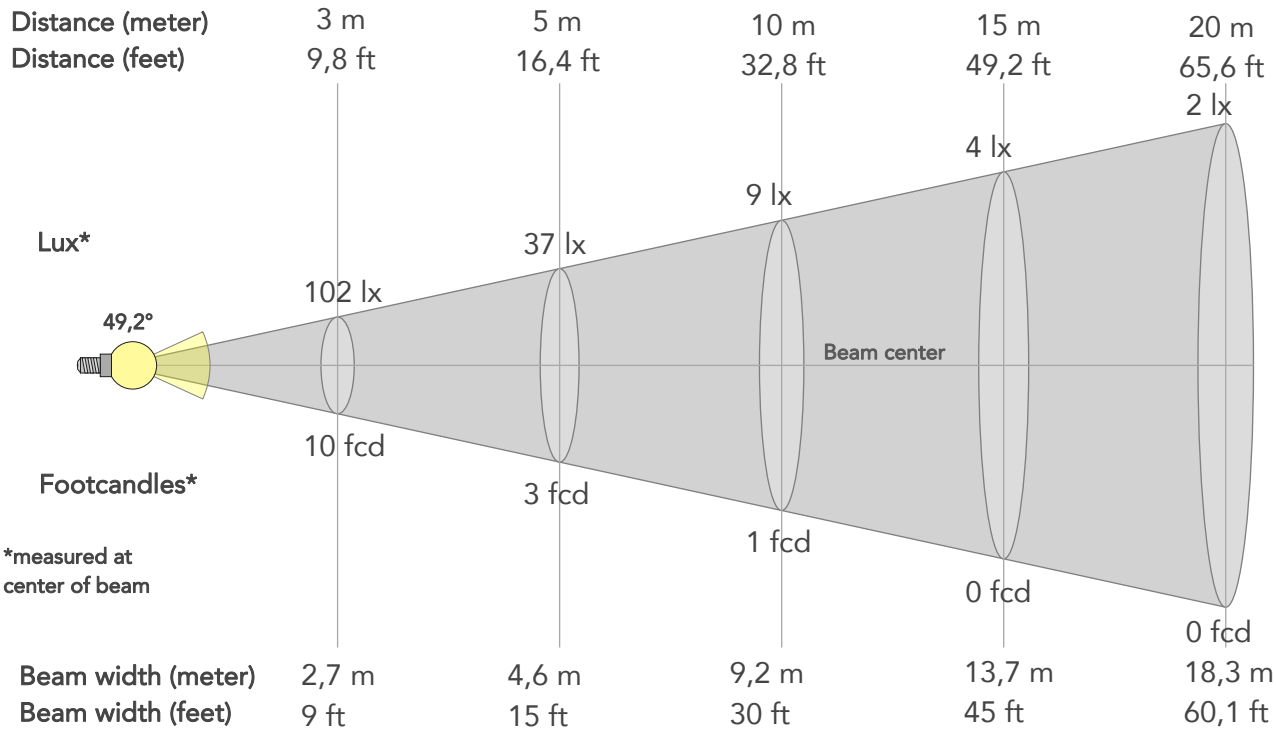
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BEAM DETAILS

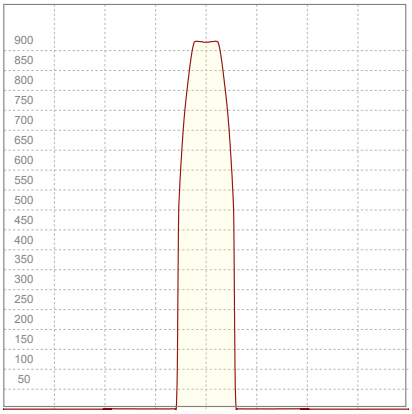
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,2°	51,5°	52,8°	99,4%	99,3%



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	921lx	230lx	102lx	58lx	37lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	86fcd	21fcd	10fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,7m	4,6m	6,9m	9,2m	13,7m	18,3m	22,9m	27,5m	36,6m	45,8m
Beam wid.	3ft	6ft	9ft	12ft	15ft	22,5ft	30ft	45ft	60,1ft	75,1ft	90,1ft	120,1ft	150,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,132A	25,4W	0,85	18lm/W

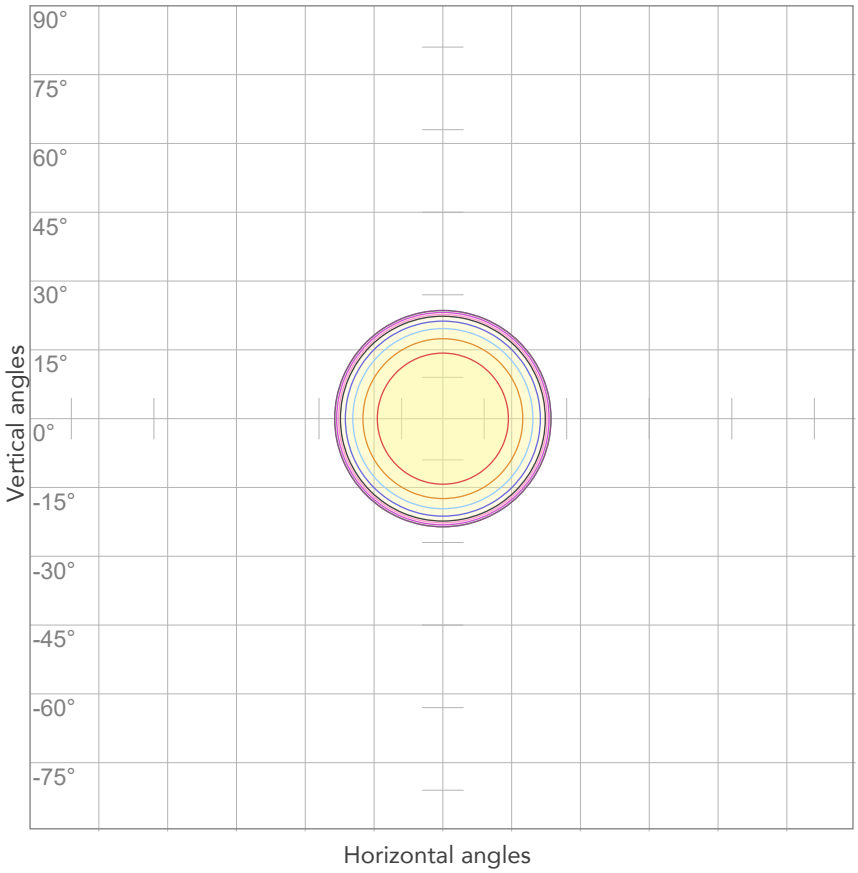
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



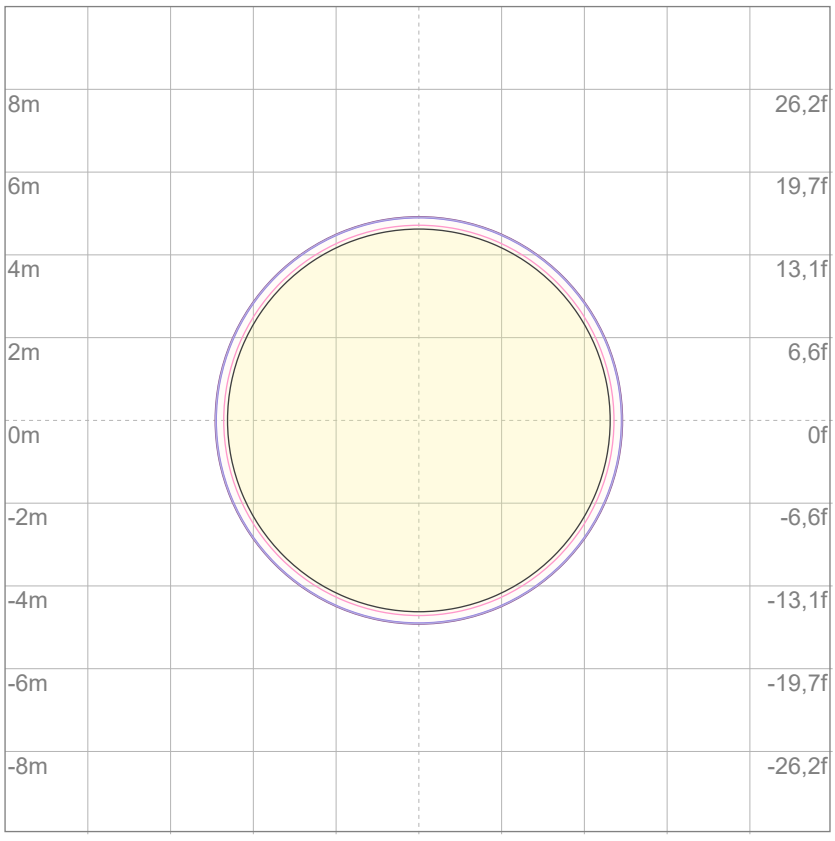
10%	92 cd
20%	184 cd
30%	276 cd
40%	368 cd
50%	461 cd
60%	553 cd
70%	645 cd
80%	737 cd

Conditions:

Number of c-planes: 2

Candela at center: 921 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,276 lx
5%	0,461 lx
10%	0,921 lx
30%	2,76 lx
50%	4,61 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,21 lx

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

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Total lumen output:

456 lm

Peak candela output:

918 cd

Light quality:

CRI: 82,7

Color temperature:

3998 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

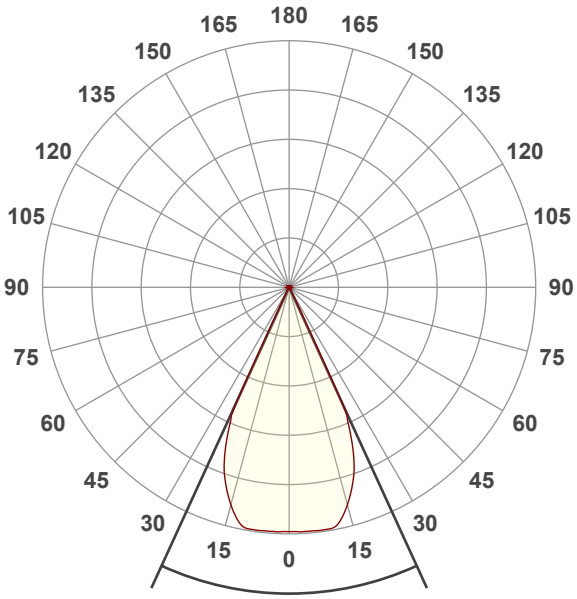
4000K

Operator:

Giuseppe della Peruta

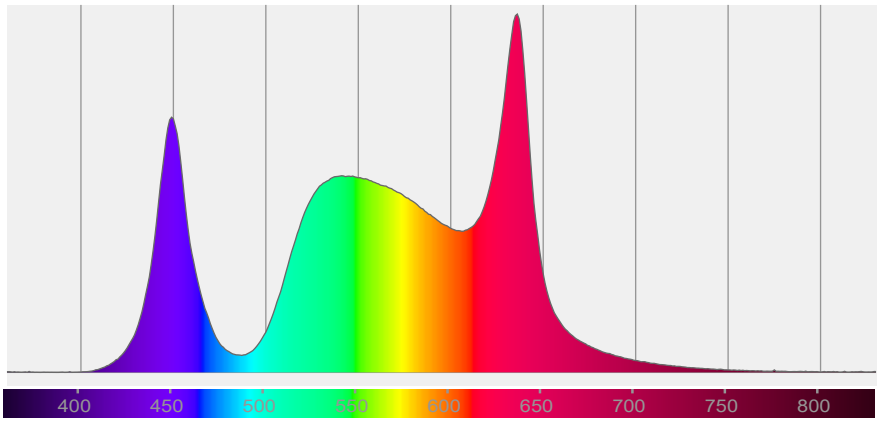
Date and time:

24/07/2025 14:21:35

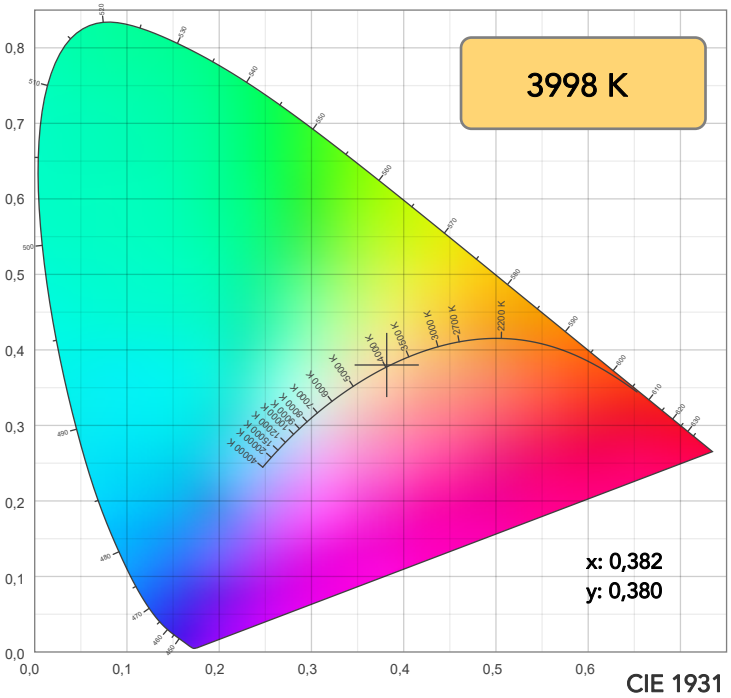


Beam angle 50%: 49,2°
Field angle 10%: 51,5°
Cut off angle 2.5%: 52,7°

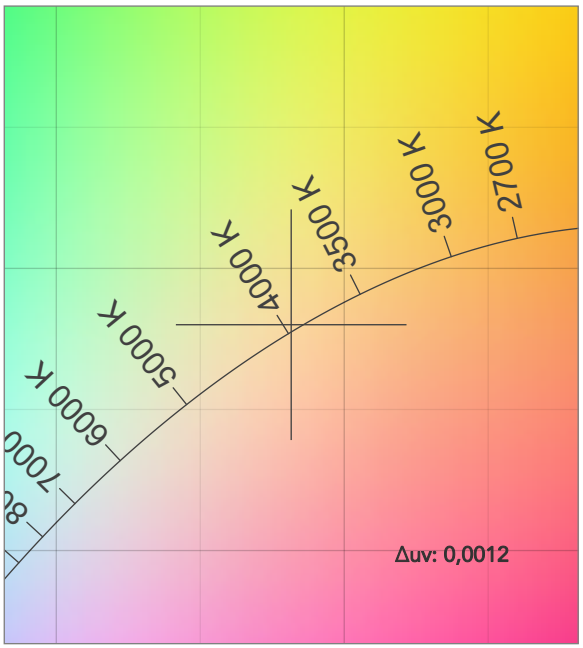
Spectra



COLOR DETAILS

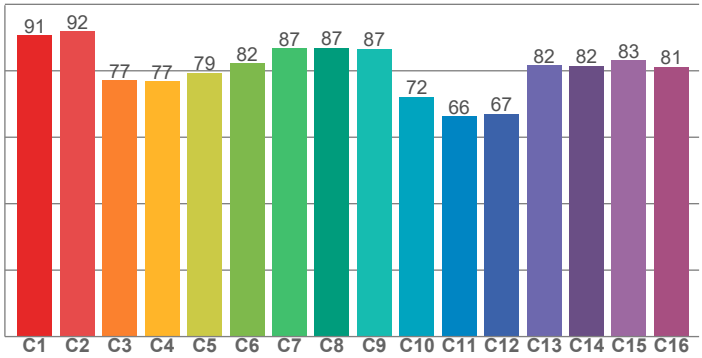


CIE 1931

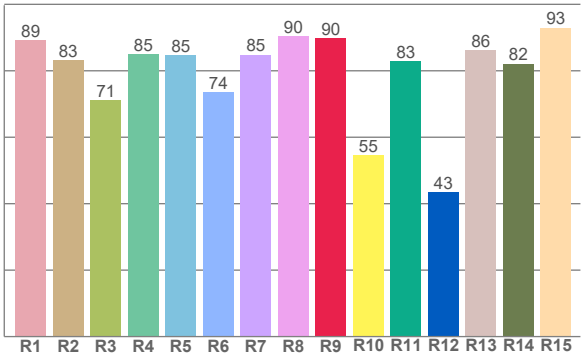


CIE 1931 ZOOM

TM30: 80,7



CRI: 82,7 (R1-R8)



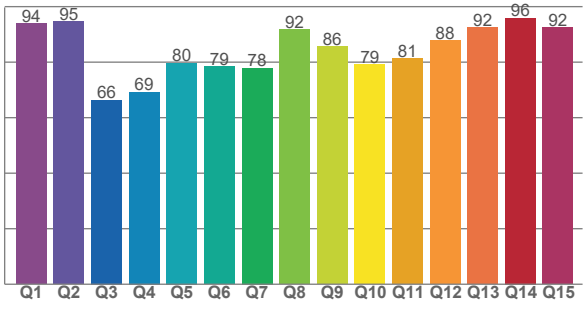
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89,2	83,1	71,1	85,1	84,7	73,5	84,9	90,3	89,8	54,6	82,9	43,4	86,2	82,2	93,0

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
90,7	91,9	77,1	76,8	79,3	82,3	86,8	86,9	86,6	72,2	66,3	67,1	81,7	81,5	83,1	81,2

CQS: 82,0



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	94,7	66,4	69,3	79,7	78,5	77,9	91,8	85,6	79,2	81,3	87,9	92,5	95,9	92,5

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3998 K	82,7	89,8	80,7	104,5	82,0	69	0,382	0,380	0,0012

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TM30 DETAILS

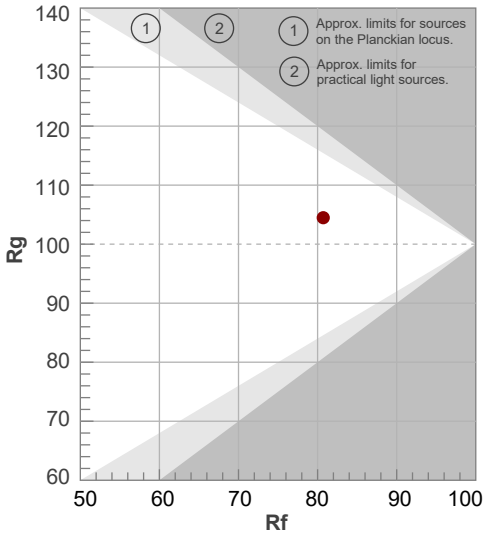
Rf 80,7

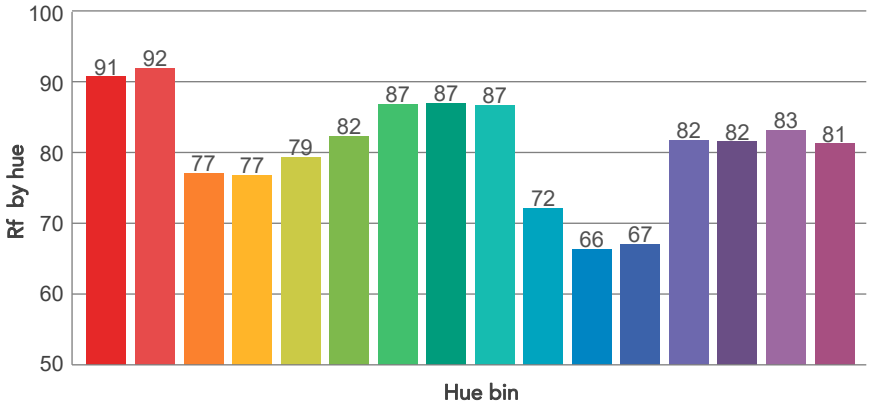
Fidelity index Rf

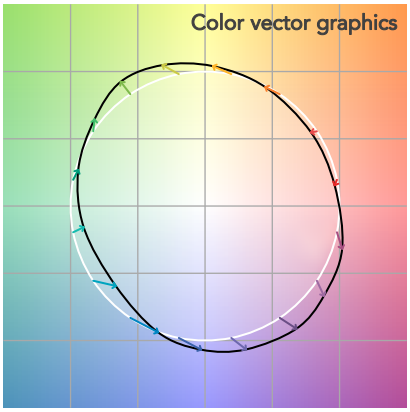
Rg 104,5

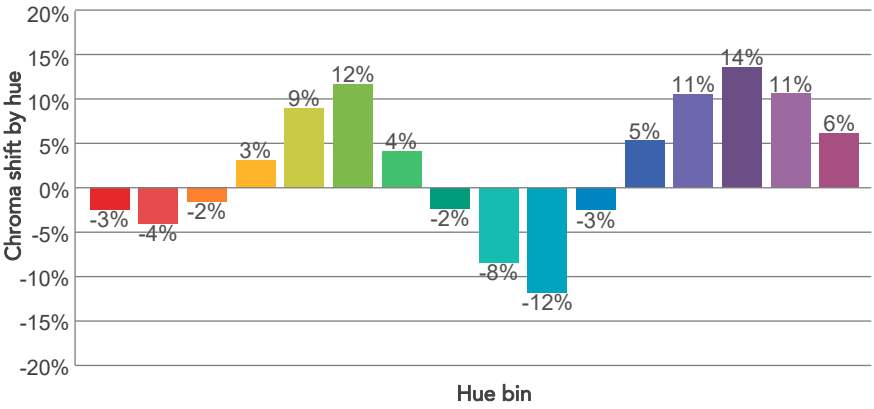
Gammut index

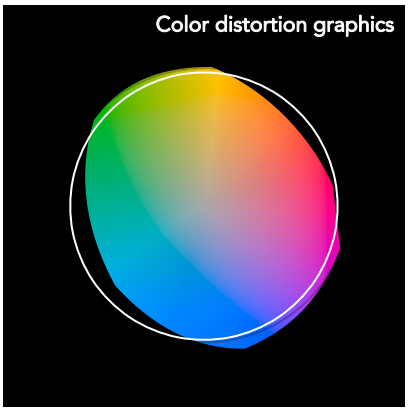
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	-3%	-4%
2	92	-4%	2%
3	77	-2%	12%
4	77	3%	15%
5	79	9%	11%
6	82	12%	1%
7	87	4%	-8%
8	87	-2%	-8%
9	87	-8%	-2%
10	72	-12%	12%
11	66	-3%	23%
12	67	5%	18%
13	82	11%	9%
14	82	14%	6%
15	83	11%	-6%
16	81	6%	-11%

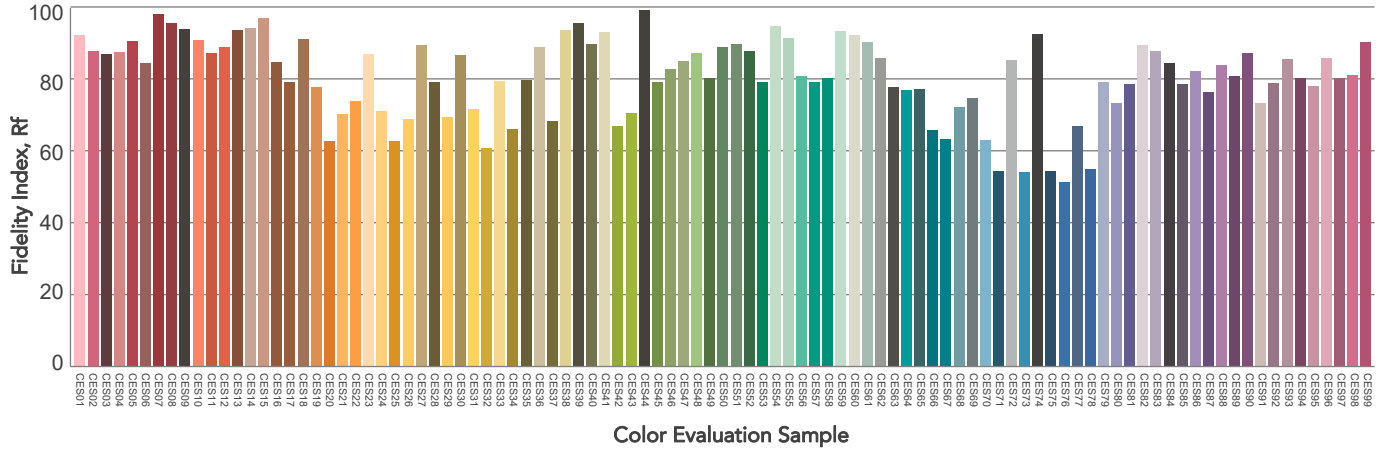












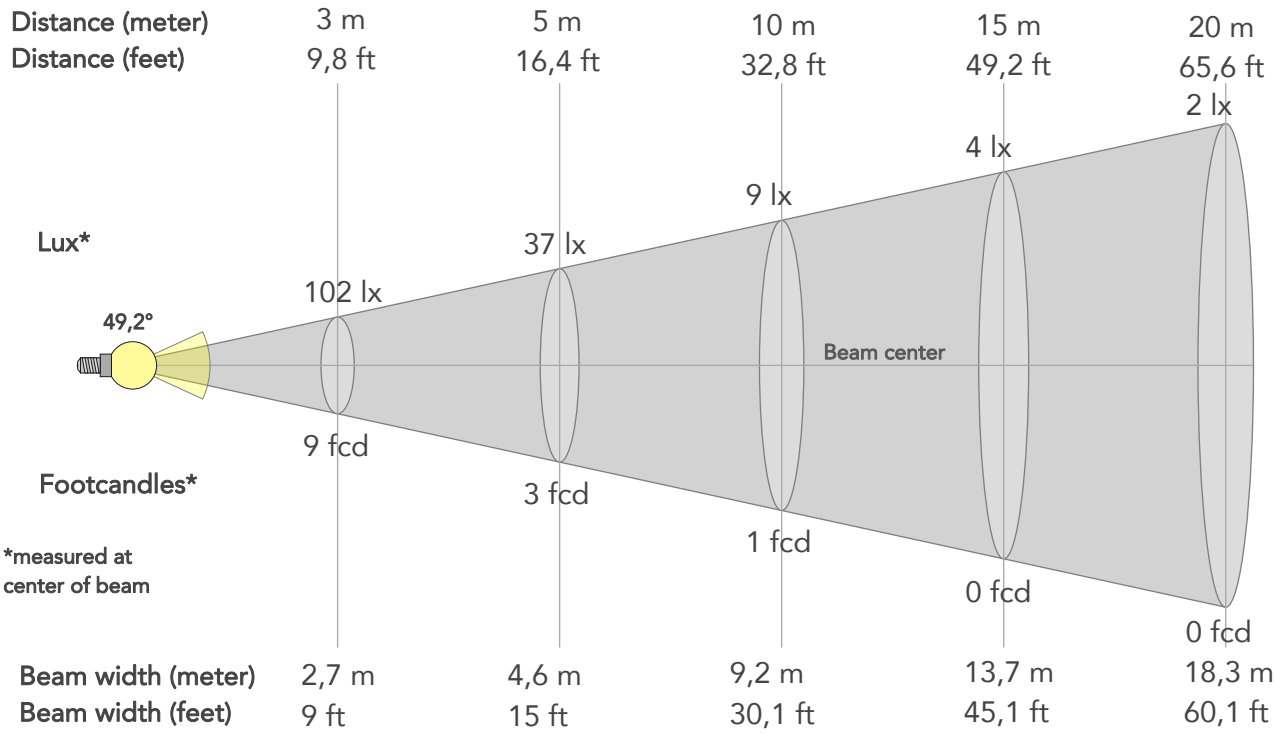
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BEAM DETAILS

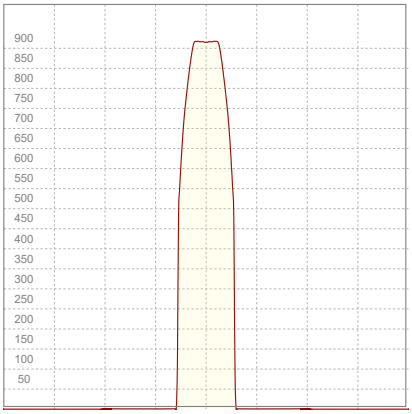
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,2°	51,5°	52,7°	99,5%	99,3%



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	915lx	229lx	102lx	57lx	37lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	85fcd	21fcd	9fcd	5fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,7m	4,6m	6,9m	9,2m	13,7m	18,3m	22,9m	27,5m	36,6m	45,8m
Beam wid.	3ft	6ft	9ft	12ft	15ft	22,5ft	30,1ft	45,1ft	60,1ft	75,1ft	90,2ft	120,2ft	150,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,135A	25,9W	0,85	18lm/W

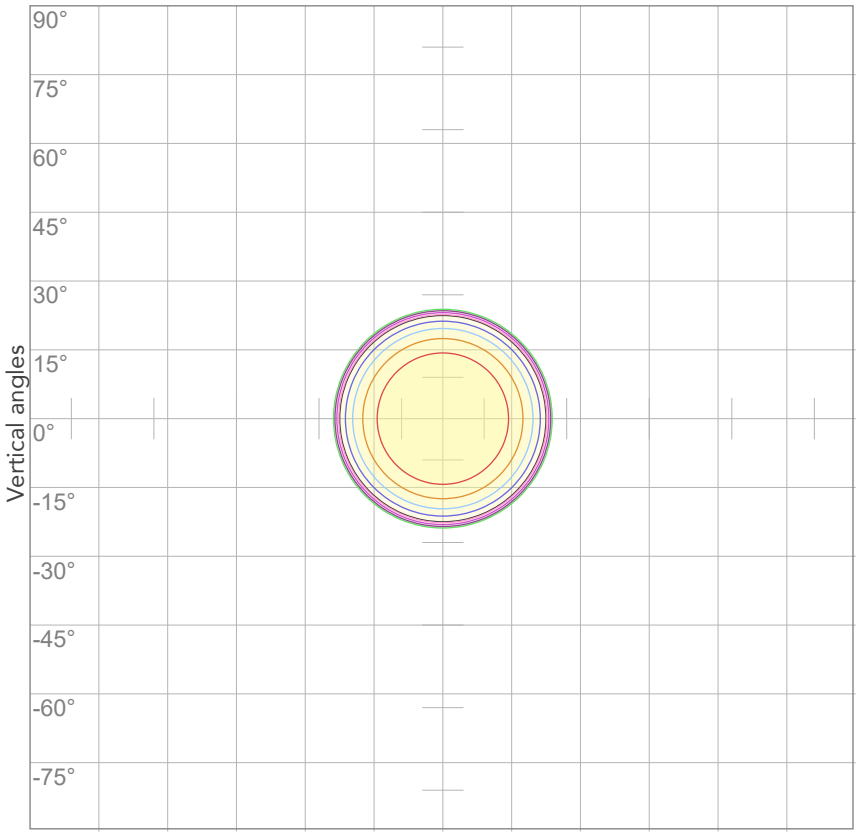
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



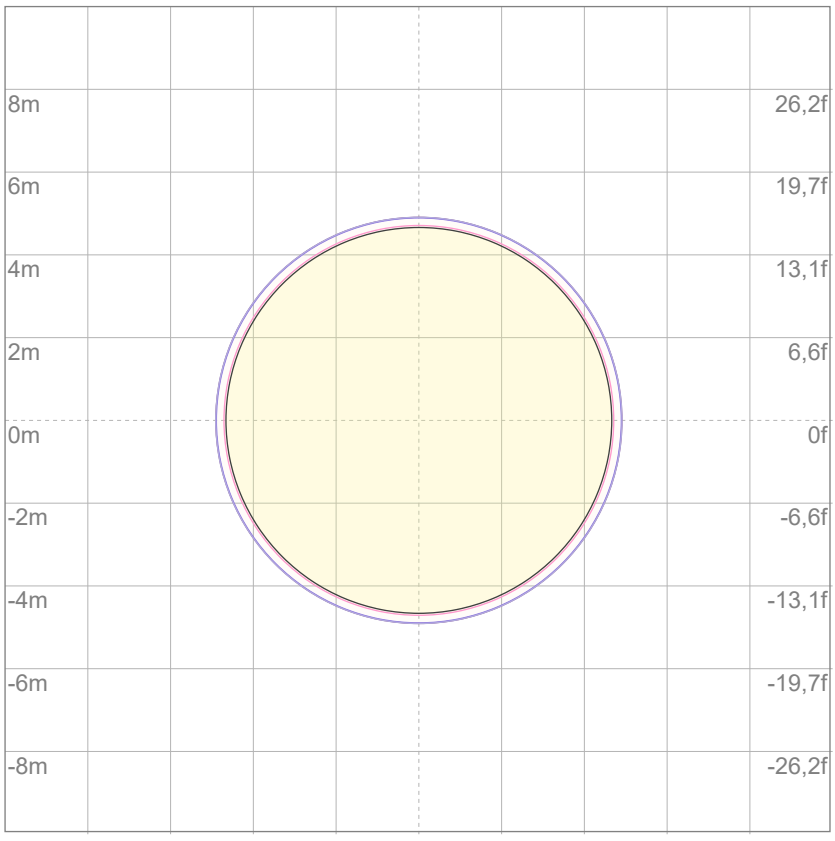
10%	91 cd
20%	183 cd
30%	274 cd
40%	366 cd
50%	457 cd
60%	549 cd
70%	640 cd
80%	732 cd

Conditions:

Number of c-planes: 2

Candela at center: 915 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,274 lx
5%	0,457 lx
10%	0,915 lx
30%	2,74 lx
50%	4,57 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,15 lx

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

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Total lumen output:

486 lm

Peak candela output:

973 cd

Light quality:

CRI: 82,9

Color temperature:

5604 K

PRODUCT NAME:

ECLDISPLAYXBFC

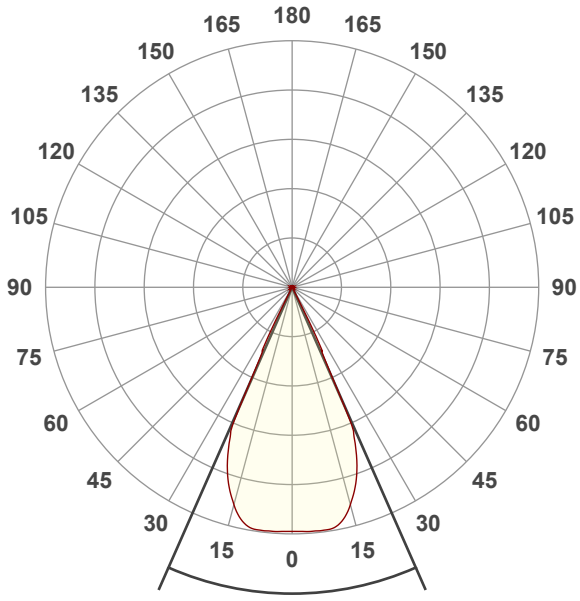
MEASURAMENT CONDITIONS:

Beam angle:
Profile 50° HD

Target:
5600K

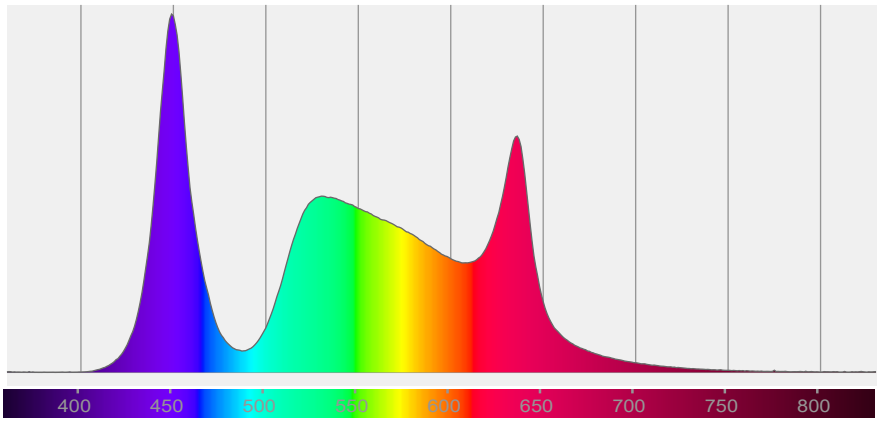
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 14:24:06

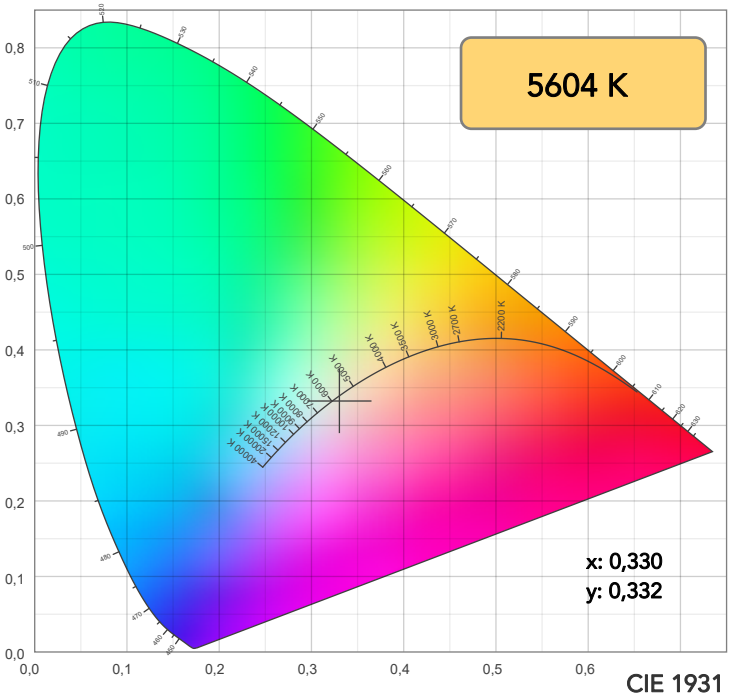


Beam angle 50%: 47,6°
Field angle 10%: 53,6°
Cut off angle 2.5%: 54,7°

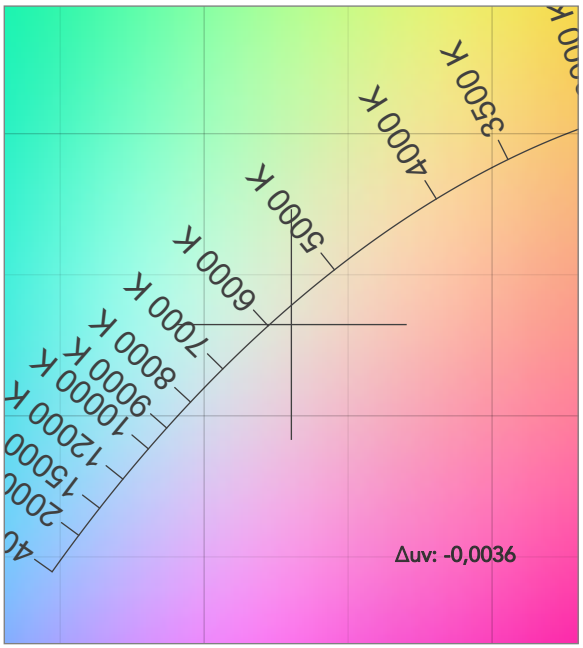
Spectra



COLOR DETAILS

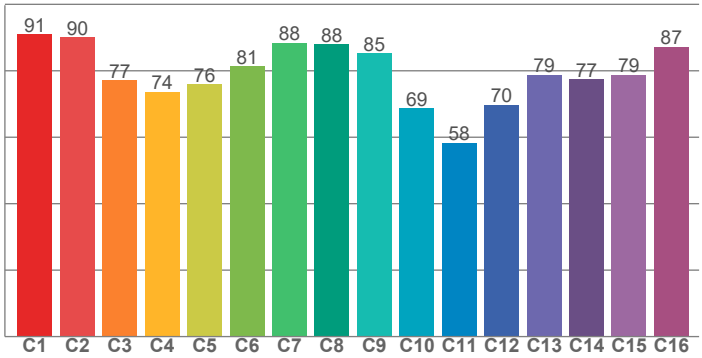


CIE 1931

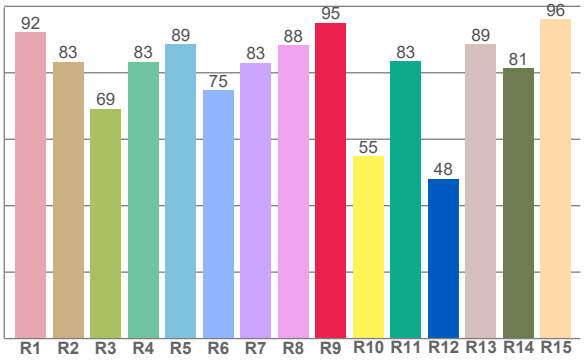


CIE 1931 ZOOM

TM30: 79,0



CRI: 82,9 (R1-R8)



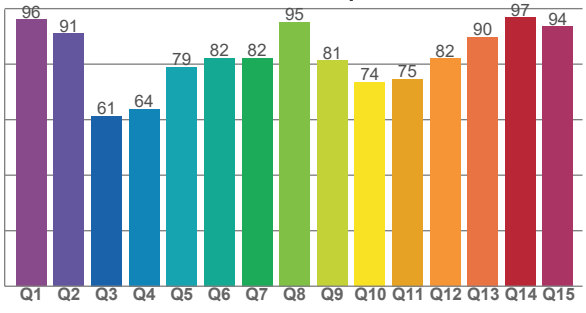
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,2	83,3	69,2	83,4	88,7	74,8	83,0	88,4	95,1	54,9	83,4	48,1	88,7	81,4	96,2

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
90,9	90,0	77,1	73,6	75,9	81,4	88,4	87,9	85,2	68,6	58,3	69,7	78,8	77,5	78,8	87,2

CQS: 79,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,1	91,1	61,4	63,8	79,0	82,2	82,2	95,2	81,3	73,6	74,7	82,1	89,8	96,7	93,7

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5604 K	82,9	95,1	79,0	105,4	79,7	72	0,330	0,332	-0,0036

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TM30 DETAILS

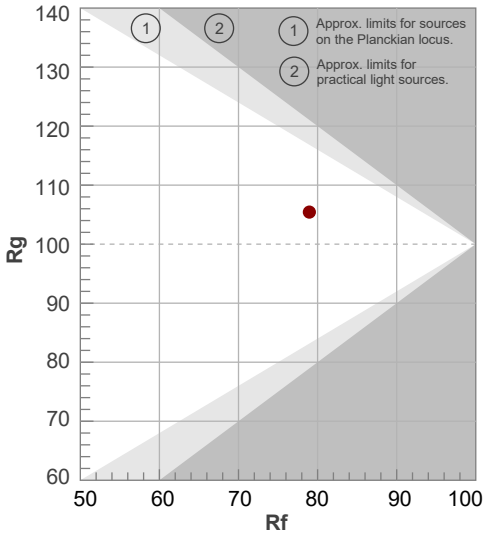
Rf 79,0

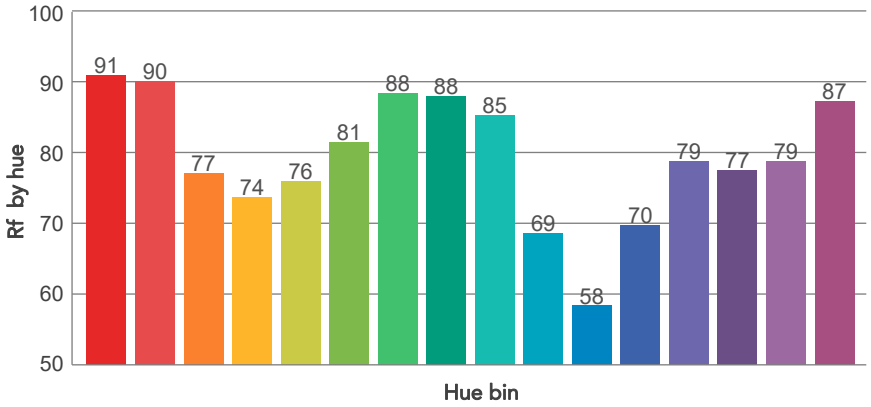
Fidelity index Rf

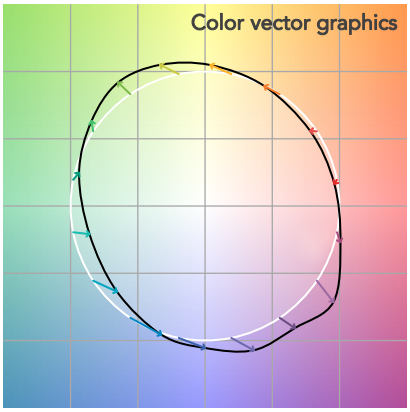
Rg 105,4

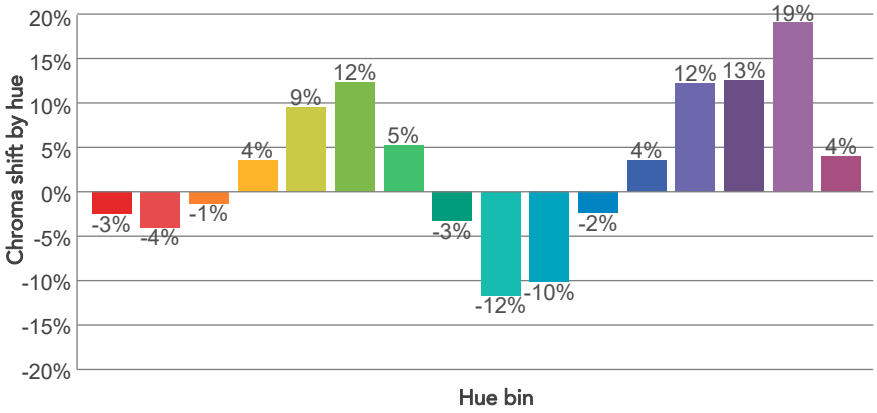
Gammut index

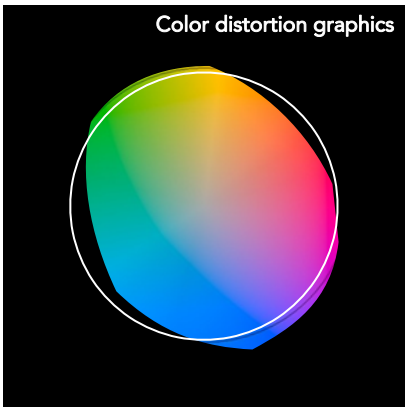
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	91	-3%	-3%
2	90	-4%	3%
3	77	-1%	13%
4	74	4%	16%
5	76	9%	12%
6	81	12%	3%
7	88	5%	-6%
8	88	-3%	-6%
9	85	-12%	4%
10	69	-10%	17%
11	58	-2%	26%
12	70	4%	21%
13	79	12%	15%
14	77	13%	5%
15	79	19%	-6%
16	87	4%	-7%

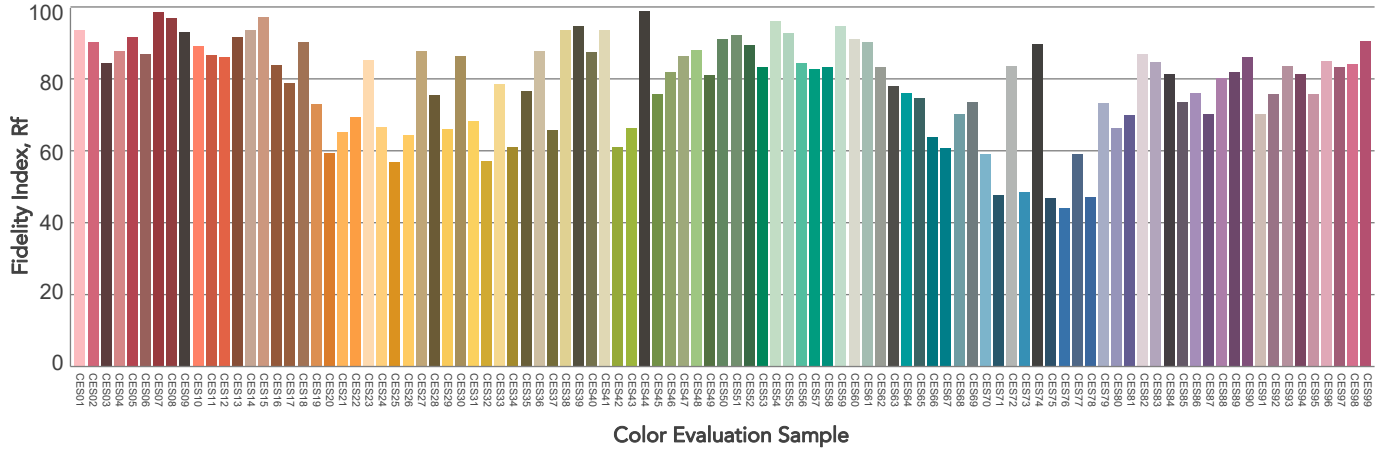












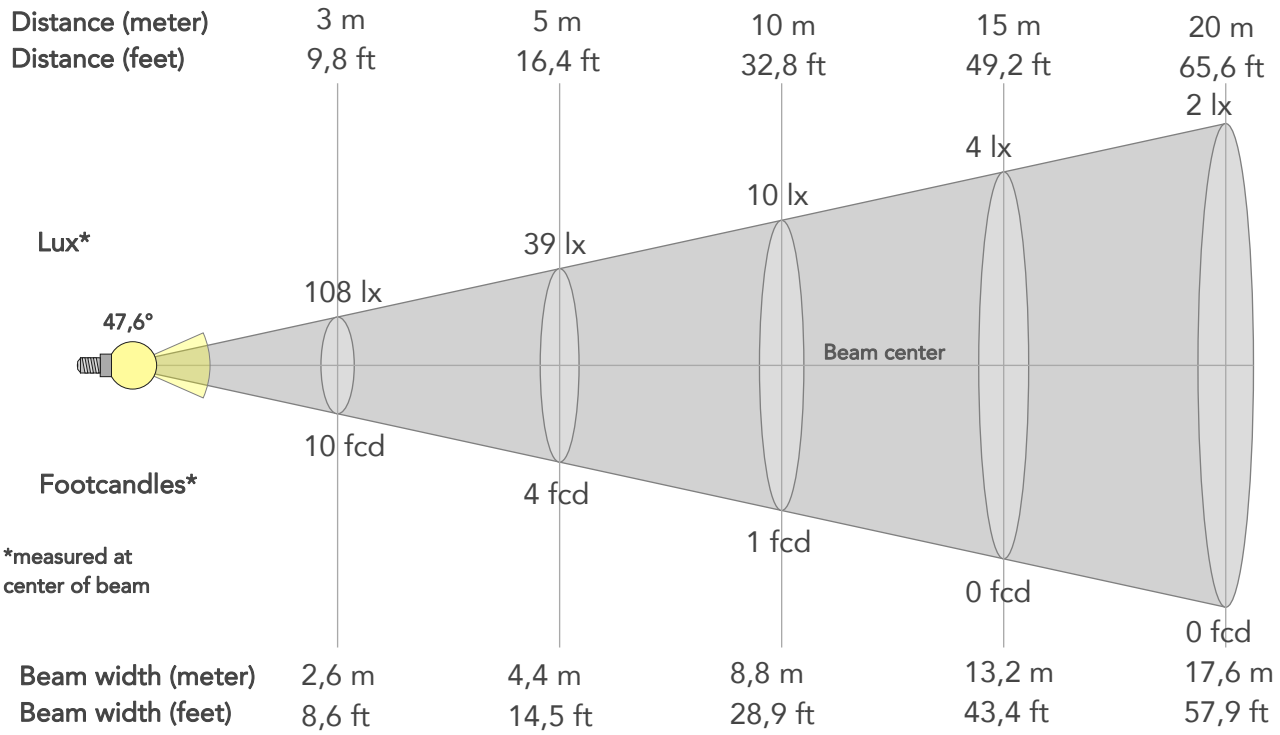
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BEAM DETAILS

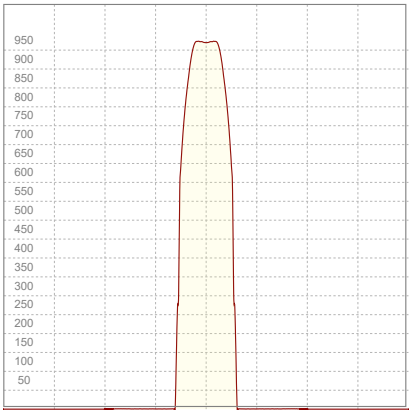
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47,6°	53,6°	54,7°	99,5%	99,3%



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	970lx	242lx	108lx	61lx	39lx	17lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	90fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,6m	3,5m	4,4m	6,6m	8,8m	13,2m	17,6m	22,1m	26,5m	35,3m	44,1m
Beam wid.	2,9ft	5,8ft	8,6ft	11,6ft	14,5ft	21,7ft	28,9ft	43,4ft	57,9ft	72,4ft	86,8ft	115,8ft	144,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,145A	28,9W	0,87	17lm/W

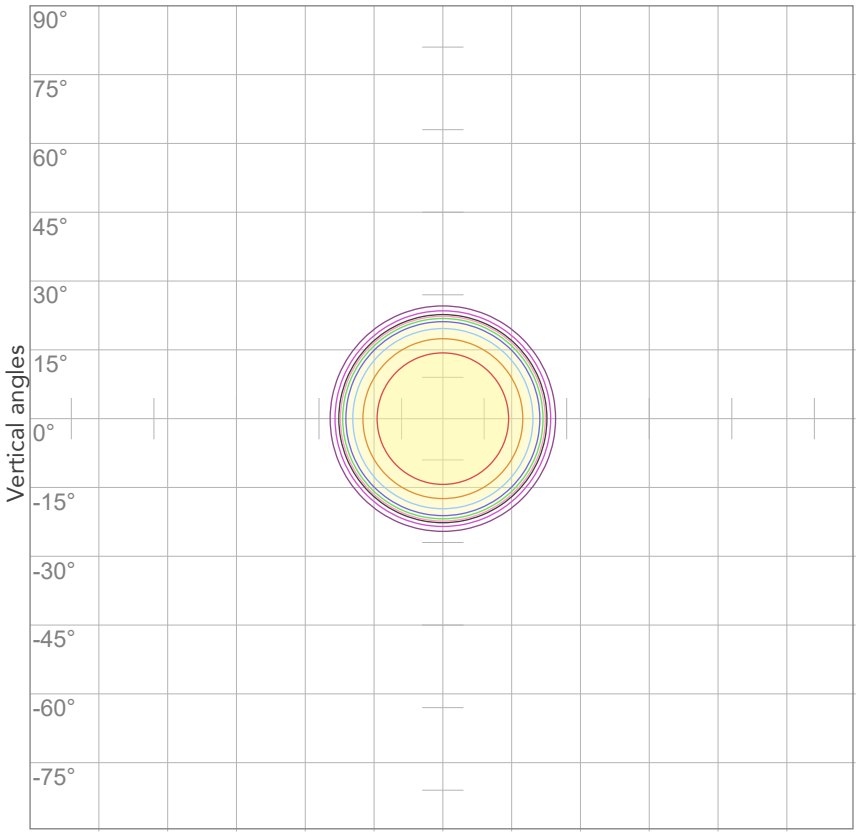
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



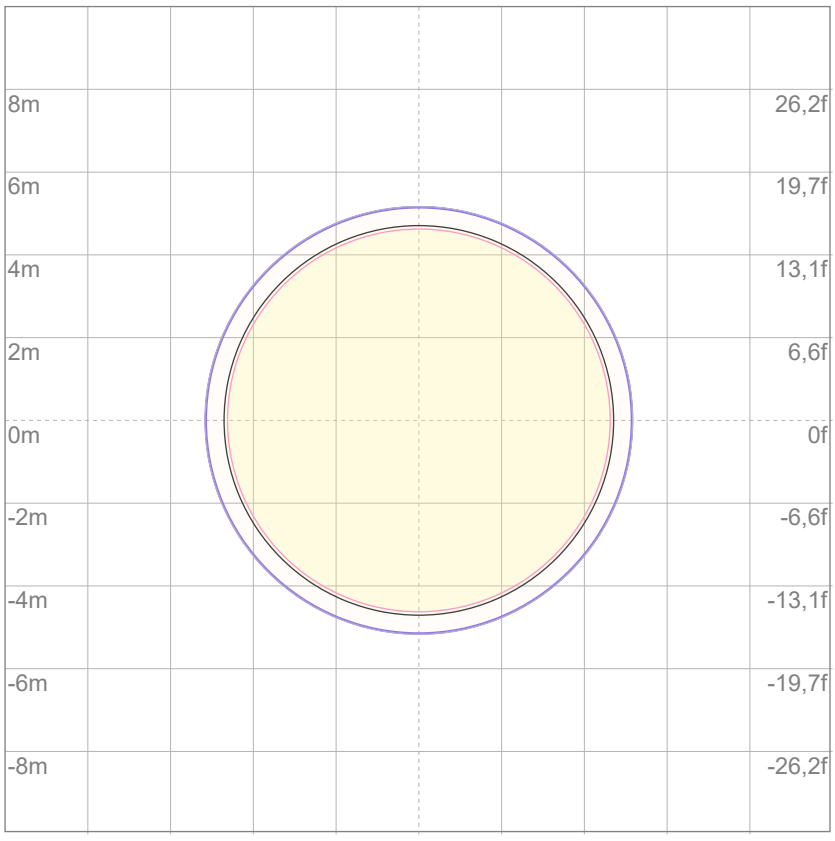
10%	97 cd
20%	194 cd
30%	291 cd
40%	388 cd
50%	485 cd
60%	582 cd
70%	679 cd
80%	776 cd

Conditions:

Number of c-planes: 2

Candela at center: 970 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,291 lx
5%	0,485 lx
10%	0,970 lx
30%	2,91 lx
50%	4,85 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,70 lx

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

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Total lumen output:

486 lm

Peak candela output:

979 cd

Light quality:

CRI: 82,9

Color temperature:

6019 K

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 50° HD

Target:

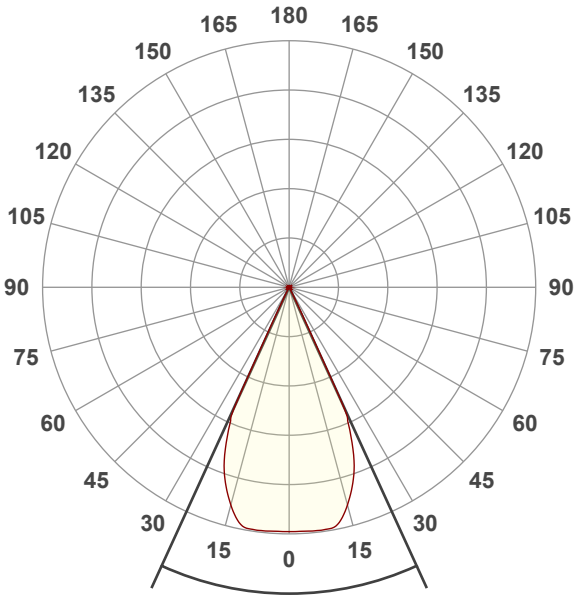
6000K

Operator:

Giuseppe della Peruta

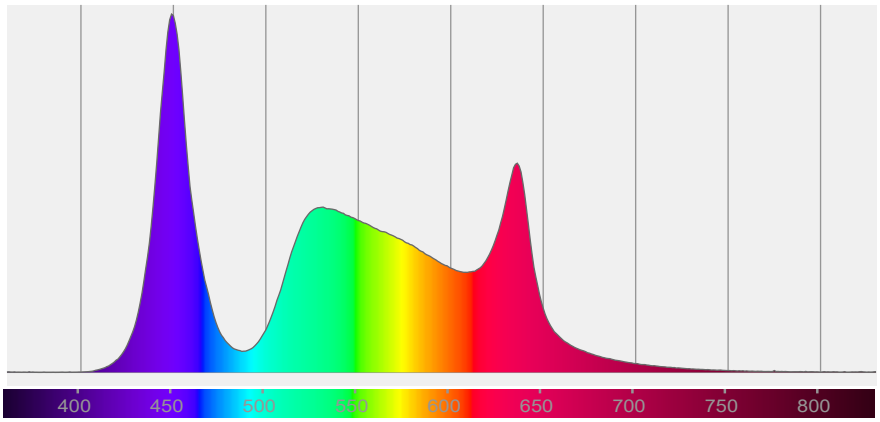
Date and time:

24/07/2025 14:25:58

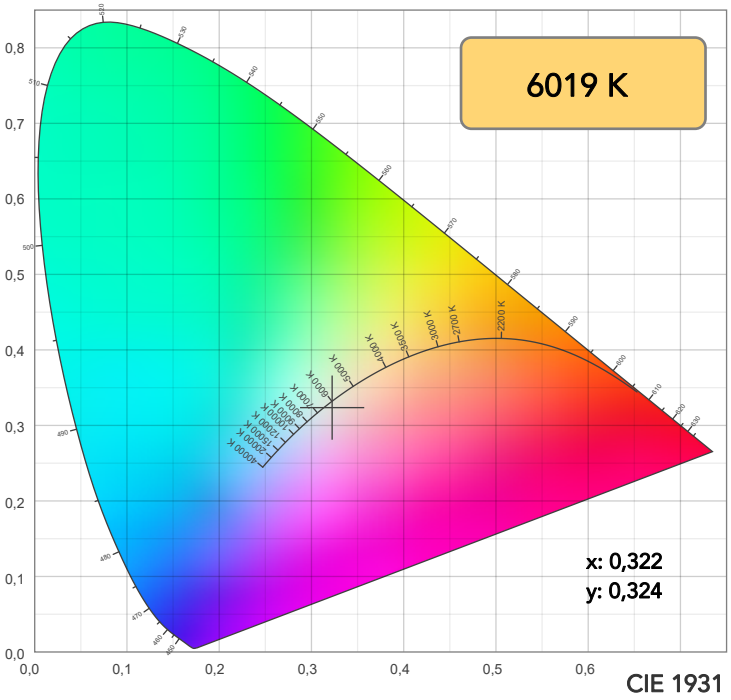


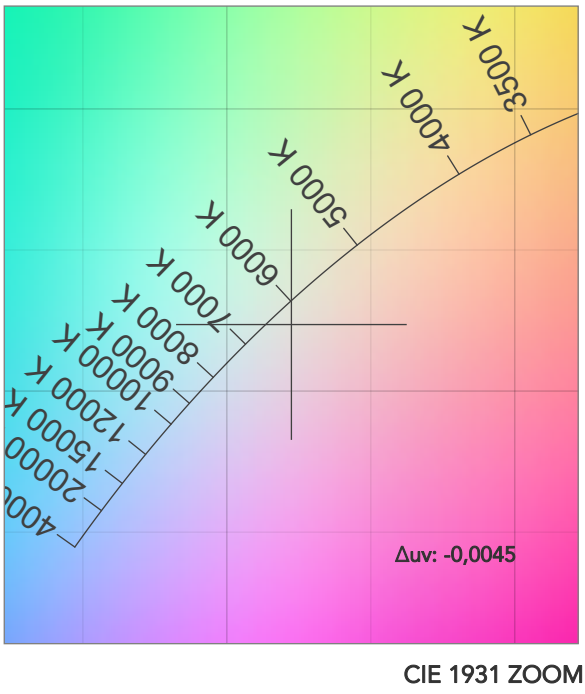
Beam angle 50%: 49,2°
Field angle 10%: 51,5°
Cut off angle 2.5%: 52,7°

Spectra

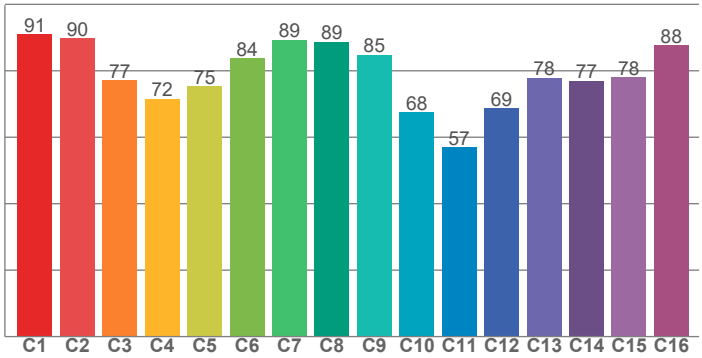


COLOR DETAILS

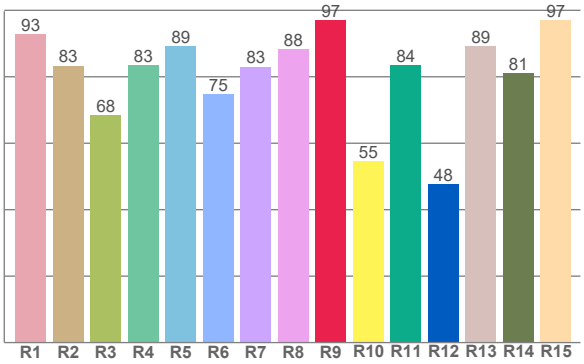




TM30: 78,8



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
92,9	83,3	68,4	83,5	89,3	74,7	83,1	88,2	97,0	54,6	83,6	47,7	89,2	81,0	97,1

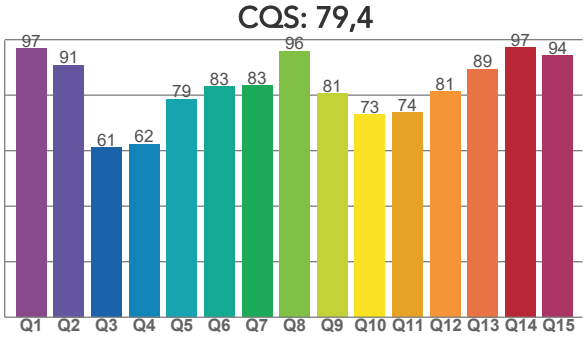
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,0	89,8	77,2	71,6	75,3	83,8	89,3	88,7	84,8	67,5	56,9	68,8	77,9	77,0	78,0	87,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	90,9	61,1	62,5	78,5	83,1	83,4	95,9	80,5	73,0	73,8	81,3	89,4	97,1	94,3

CQS: 79,4



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6019 K	82,9	97,0	78,8	105,3	79,4	73	0,322	0,324	-0,0045

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TM30 DETAILS

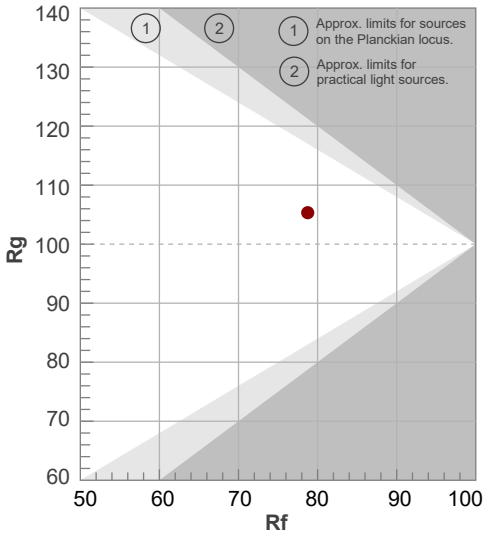
Rf 78,8

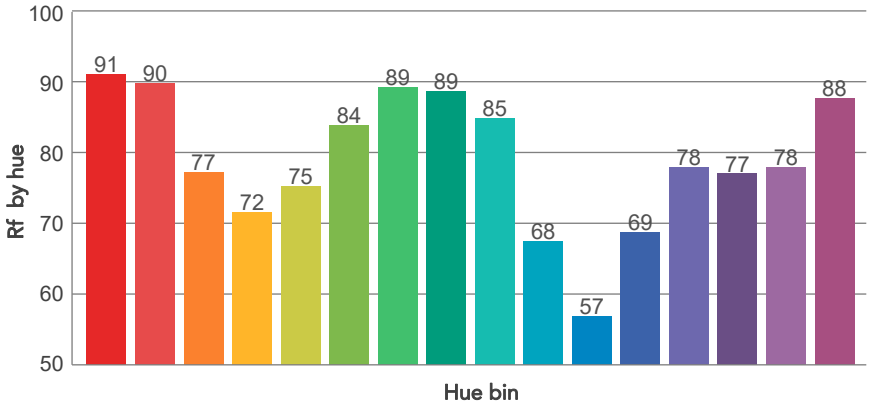
Fidelity index Rf

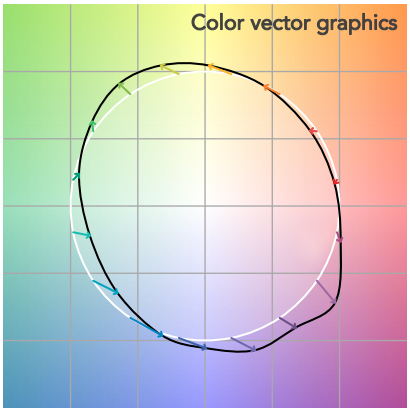
Rg 105,3

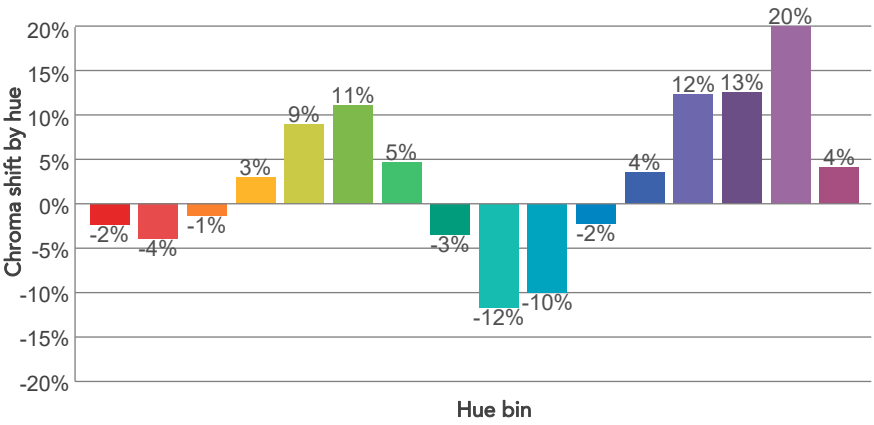
Gammut index

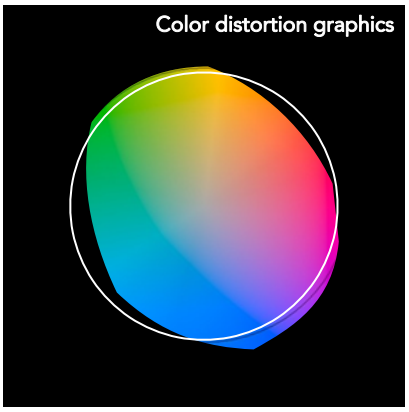
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	91	-2%	-2%
2	90	-4%	3%
3	77	-1%	13%
4	72	3%	17%
5	75	9%	12%
6	84	11%	3%
7	89	5%	-6%
8	89	-3%	-5%
9	85	-12%	5%
10	68	-10%	18%
11	57	-2%	27%
12	69	4%	21%
13	78	12%	16%
14	77	13%	6%
15	78	20%	-6%
16	88	4%	-6%

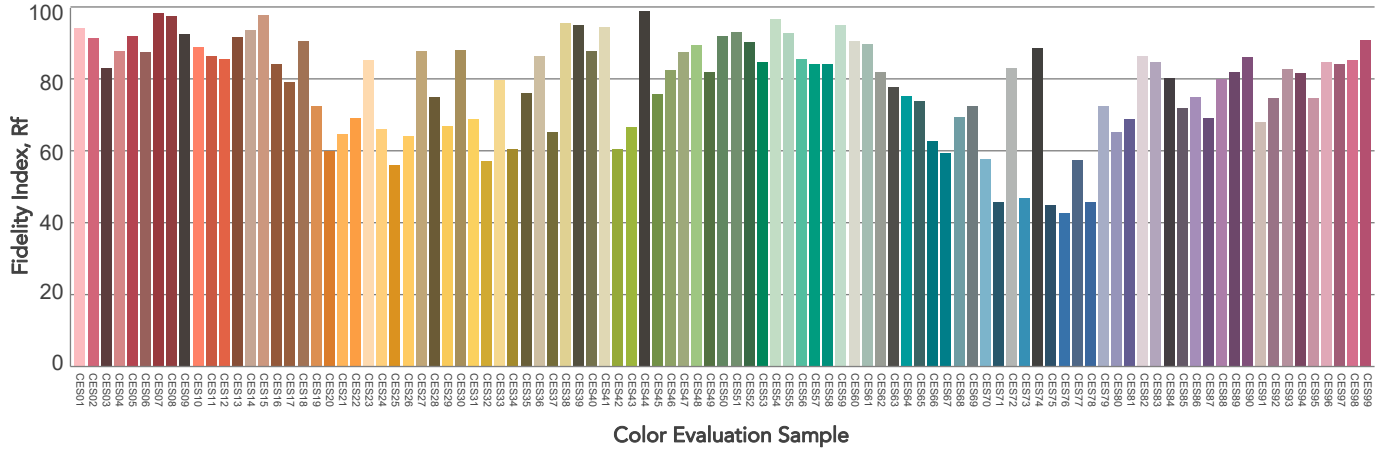












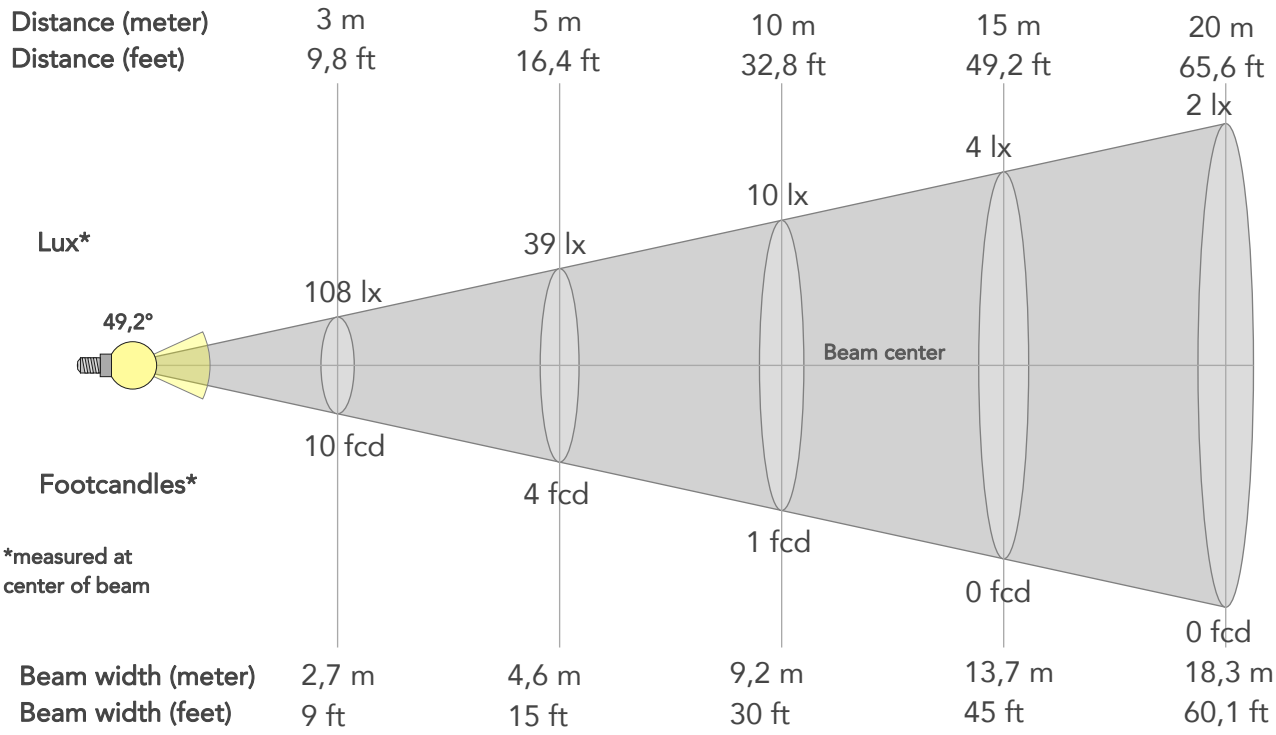
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BEAM DETAILS

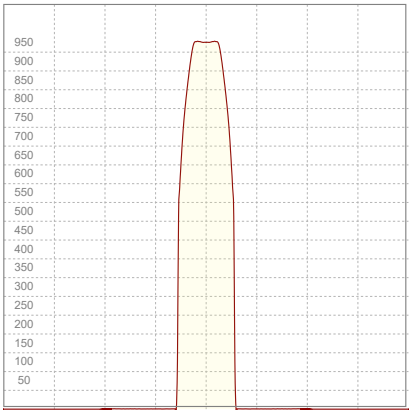
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,2°	51,5°	52,7°	99,5%	99,3%



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	976lx	244lx	108lx	61lx	39lx	17lx	10lx	4lx	2lx	2lx	1lx	1lx	0lx
Footcand.	91fcd	23fcd	10fcd	6fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,9m	1,8m	2,7m	3,7m	4,6m	6,9m	9,2m	13,7m	18,3m	22,9m	27,5m	36,6m	45,8m
Beam wid.	3ft	6ft	9ft	12ft	15ft	22,5ft	30ft	45ft	60,1ft	75,1ft	90,1ft	120,1ft	150,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,146A	29,1W	0,87	171m/W

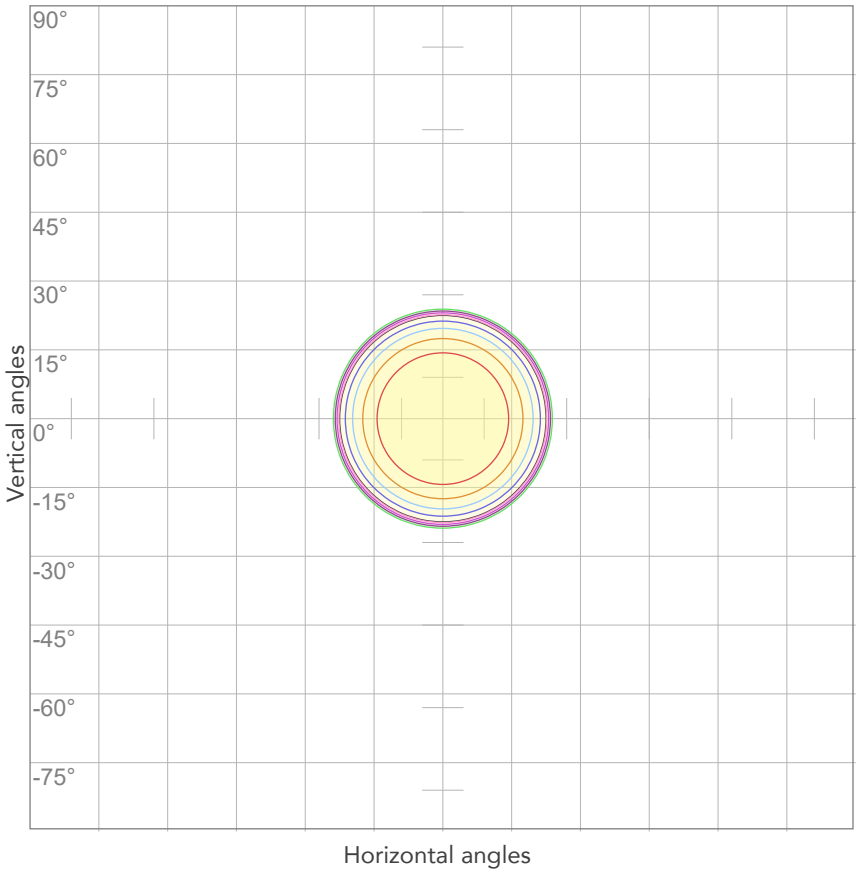
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ISO DIAGRAMS

ISO CANDELA DIAGRAM



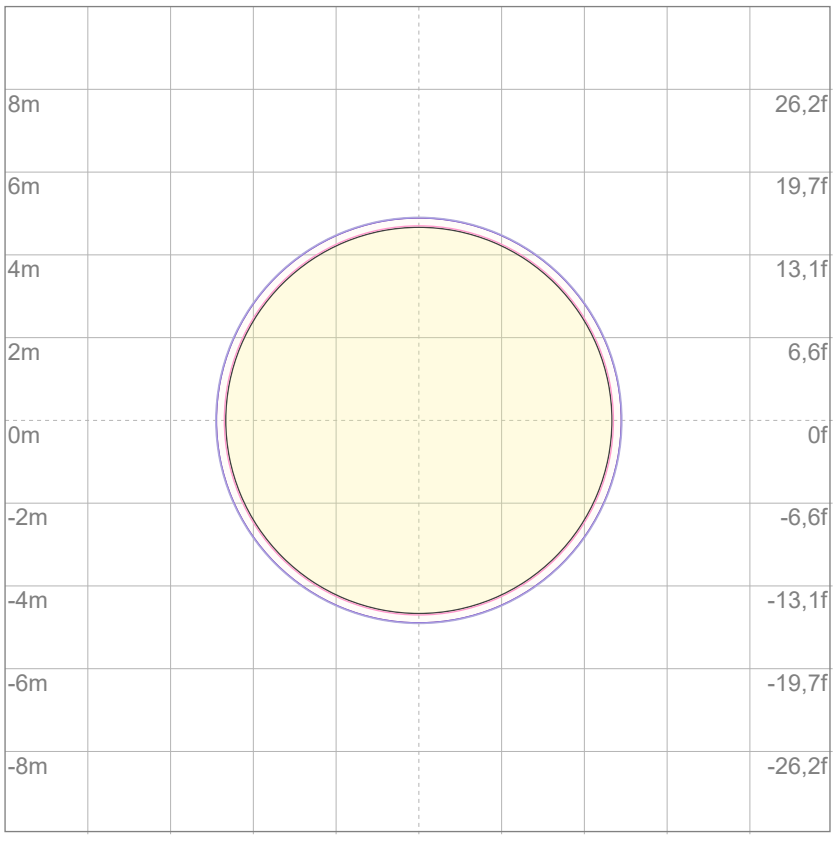
10%	98 cd
20%	195 cd
30%	293 cd
40%	390 cd
50%	488 cd
60%	586 cd
70%	683 cd
80%	781 cd

Conditions:

Number of c-planes: 2

Candela at center: 976 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,293 lx
5%	0,488 lx
10%	0,976 lx
30%	2,93 lx
50%	4,88 lx

Conditions:

Number of c-planes: 2

Lux at center: 9,76 lx

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

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