Photometric Test Report

EclDisplay XBFC

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

PROFILE LENS 18° HD

CONTENTS

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:

691 lm

Peak candela output:

12521 cd

PRODUCT NAME:

ECLDISPLAYXBFC

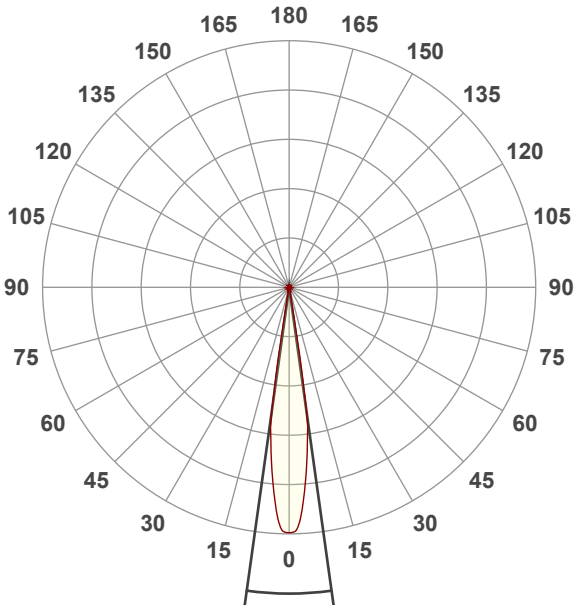
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
Full On

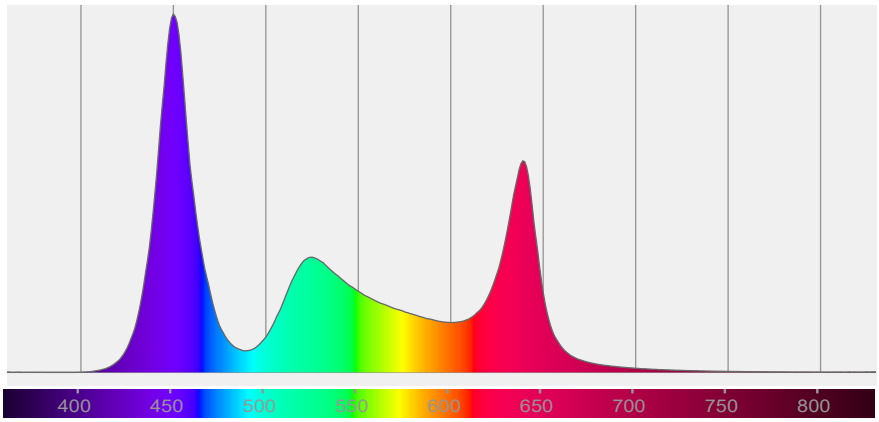
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 15:16:06



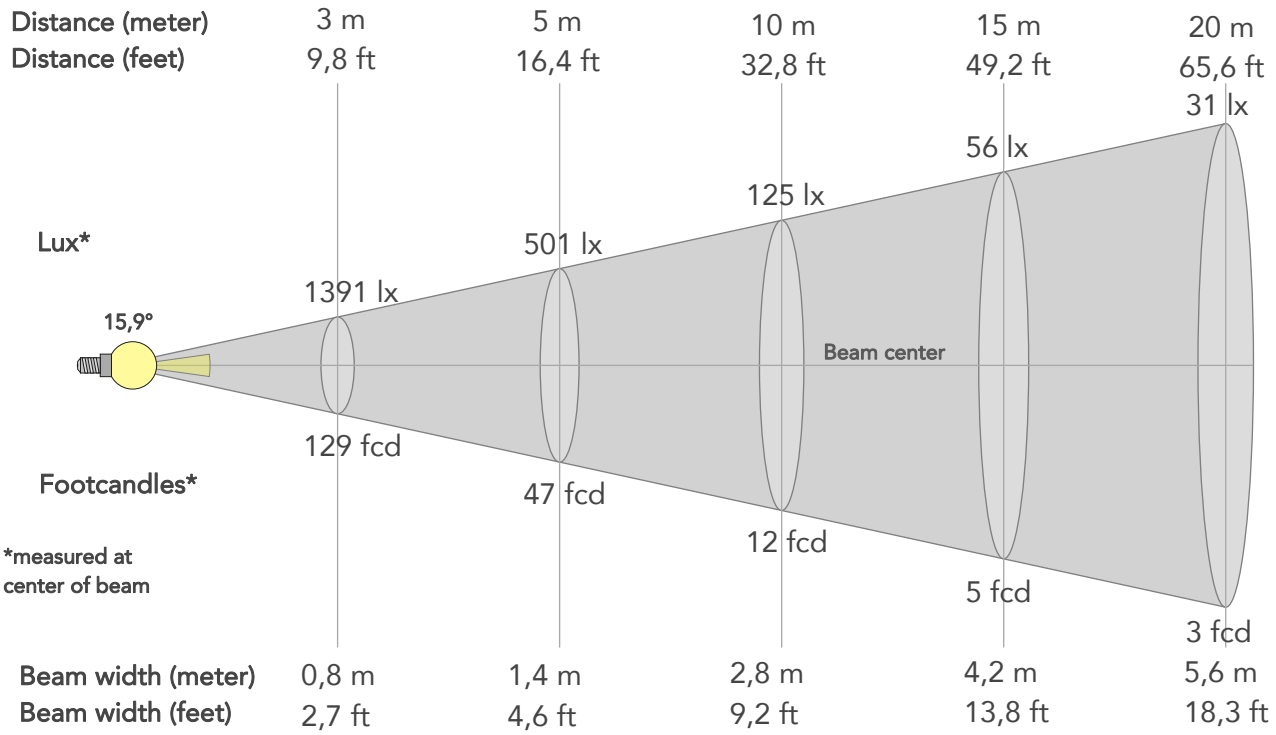
Beam angle 50%: 15,9°
Field angle 10%: 19°
Cut off angle 2.5%: 19,6°

Spectra



BEAM DETAILS

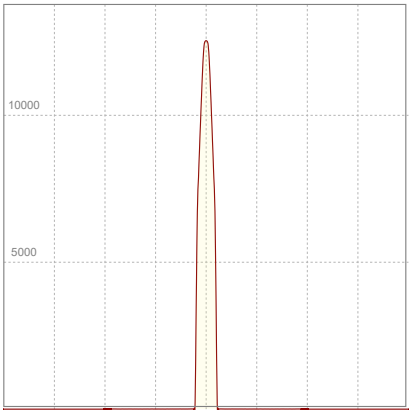
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,9°	19°	19,6°	98,0%	97,3%



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	12521lx	3130lx	1391lx	783lx	501lx	223lx	125lx	56lx	31lx	20lx	14lx	8lx	5lx
Footcand.	1163fcd	291fcd	129fcd	73fcd	47fcd	21fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,8ft	2,7ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,3ft	22,9ft	27,5ft	36,7ft	45,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,212A	44,9W	0,93	15lm/W

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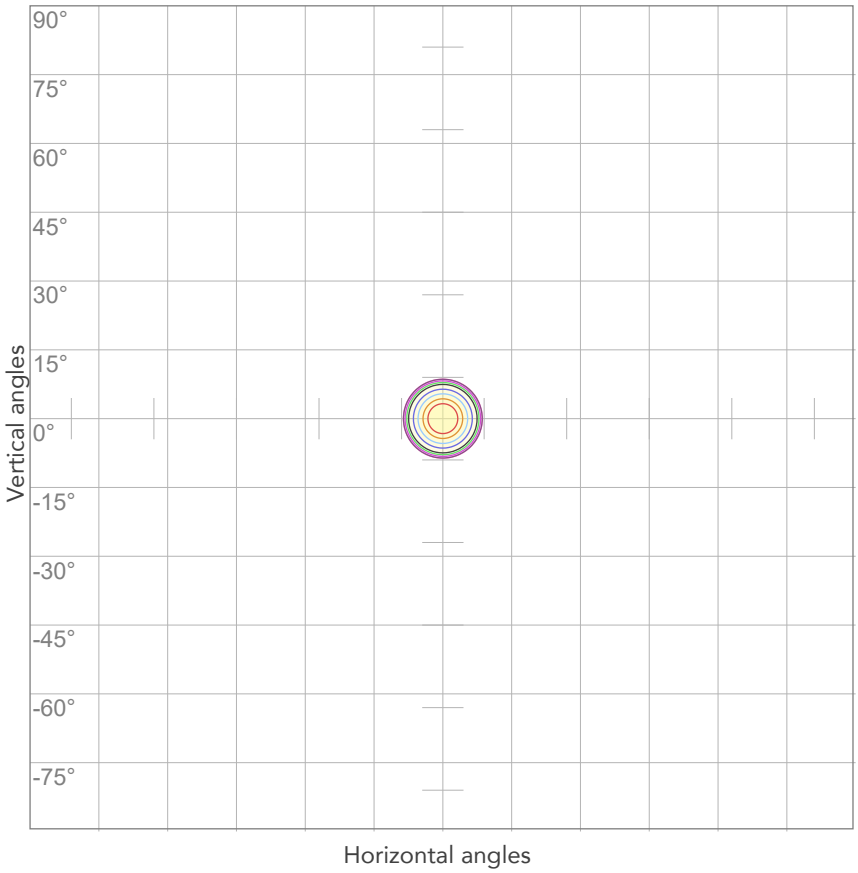
ISO DIAGRAMS

ISO CANDELA DIAGRAM



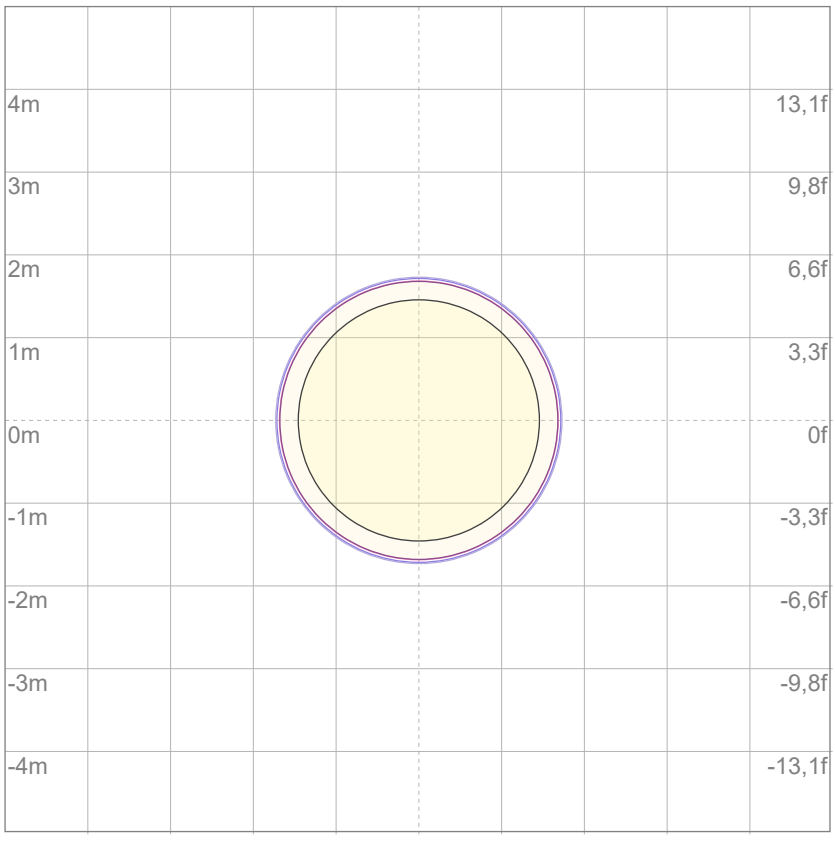
10%	1252 cd
20%	2504 cd
30%	3756 cd
40%	5009 cd
50%	6261 cd
60%	7513 cd
70%	8765 cd
80%	10017 cd

Conditions:

Number of c-planes: 2

Candela at center: 12521 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,76 lx
5%	6,26 lx
10%	12,5 lx
30%	37,6 lx
50%	62,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 125 lx

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

Total lumen output:

118 lm

Peak candela output:

1832 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 18° HD

Target:

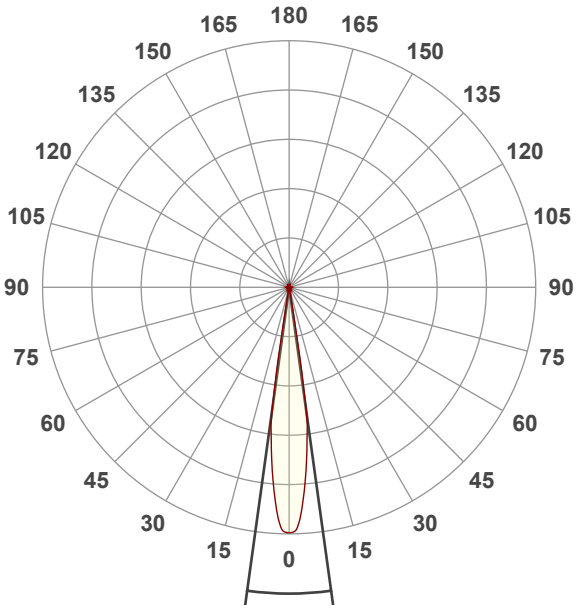
Red

Operator:

Giuseppe della Peruta

Date and time:

24/07/2025 15:18:37

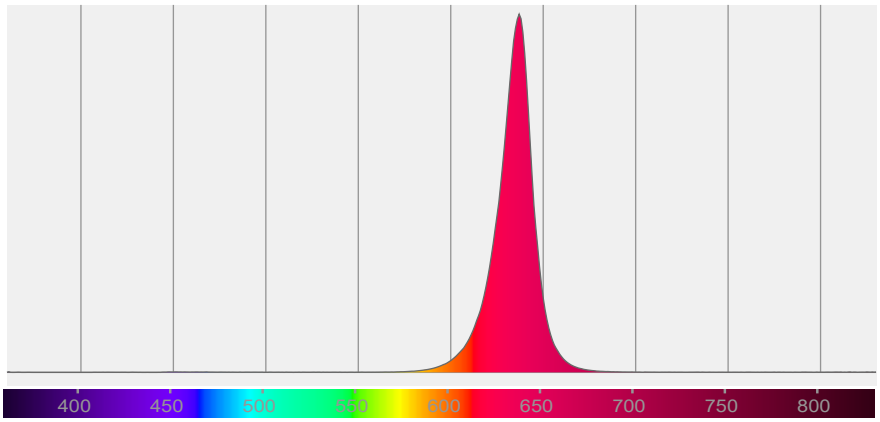


Beam angle 50%: 15,8°

Field angle 10%: 18,9°

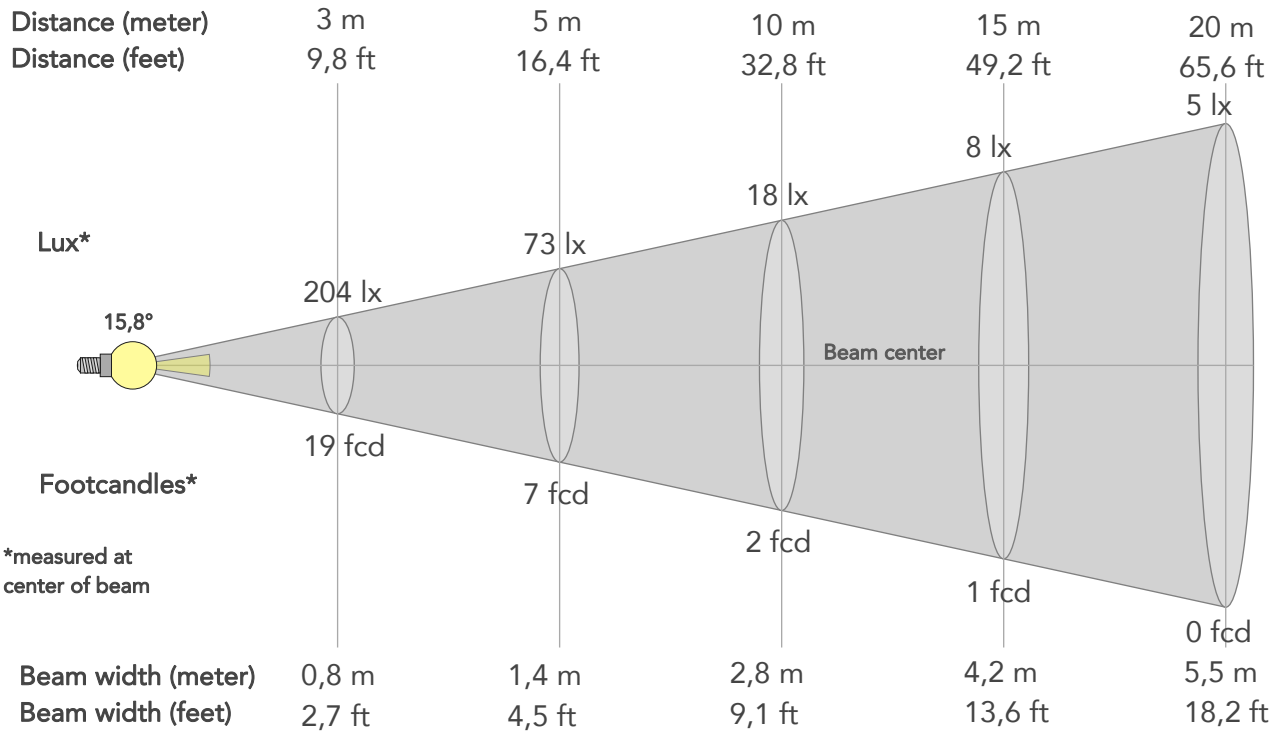
Cut off angle 2.5%: 19,5°

Spectra



BEAM DETAILS

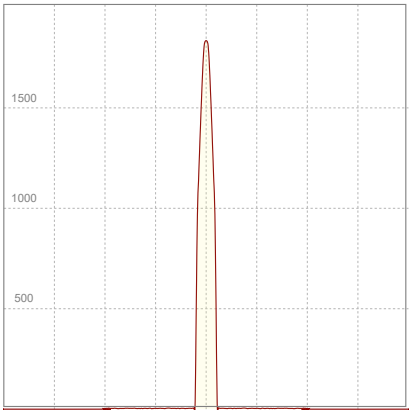
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,8°	18,9°	19,5°	89,9%	86,1%



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	1832lx	458lx	204lx	114lx	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.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,5m	6,9m	8,3m	11,1m	13,8m
Beam wid.	0,9ft	1,8ft	2,7ft	3,6ft	4,5ft	6,8ft	9,1ft	13,6ft	18,2ft	22,7ft	27,2ft	36,3ft	45,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,078A	8,6W	0,48	14lm/W

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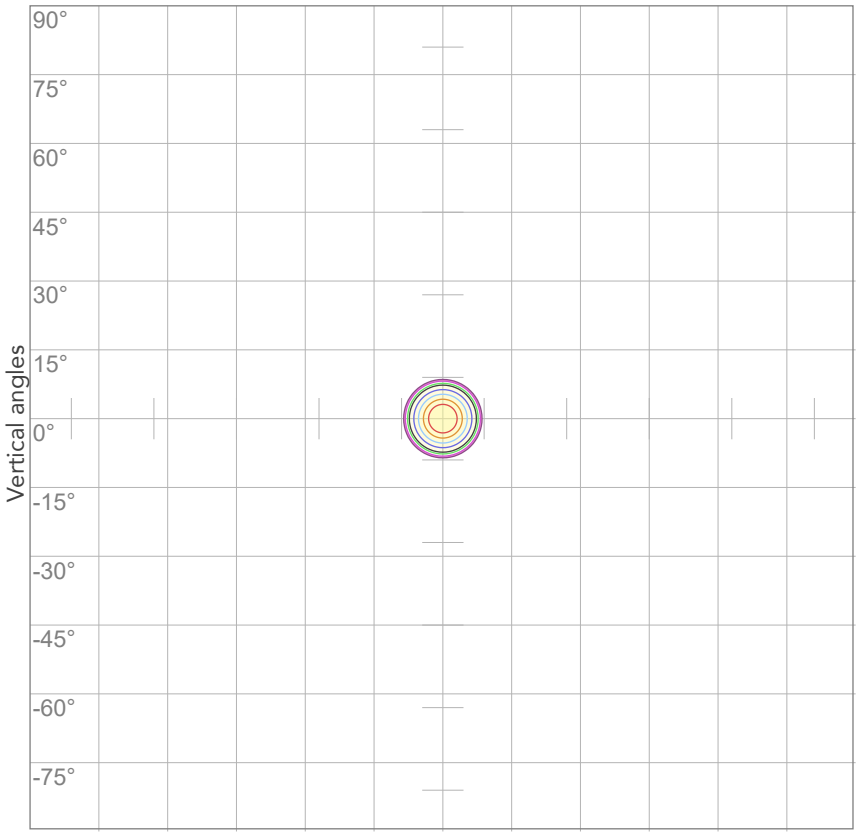
ISO DIAGRAMS

ISO CANDELA DIAGRAM



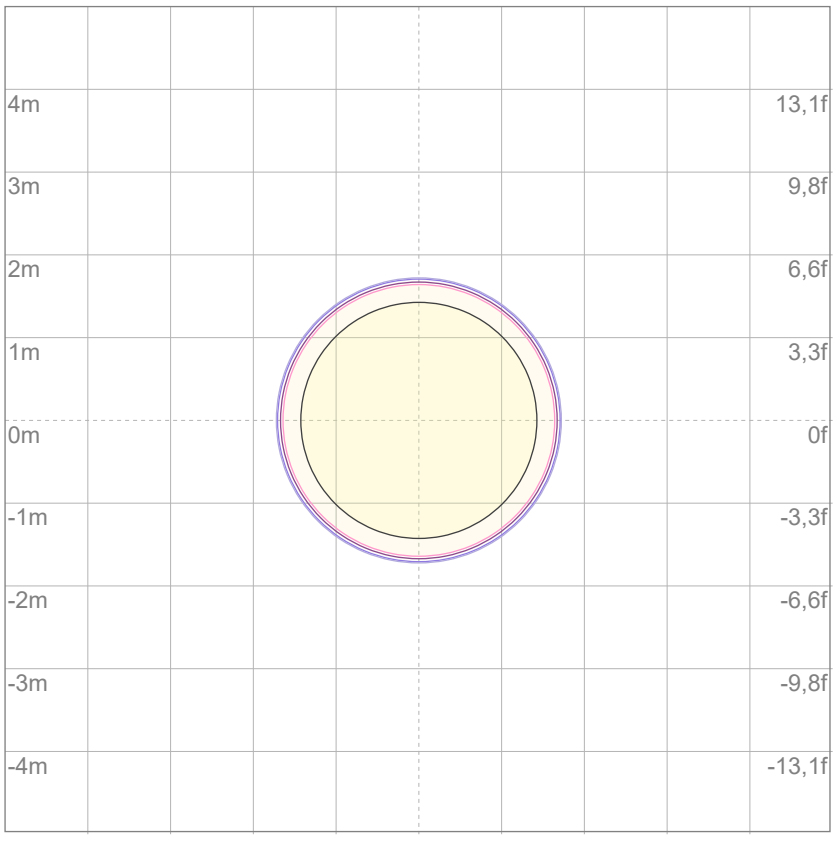
10%	183 cd
20%	366 cd
30%	550 cd
40%	733 cd
50%	916 cd
60%	1099 cd
70%	1282 cd
80%	1465 cd

Conditions:

Number of c-planes: 2

Candela at center: 1832 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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:

162 lm

Peak candela output:

2907 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 18° HD

Target:

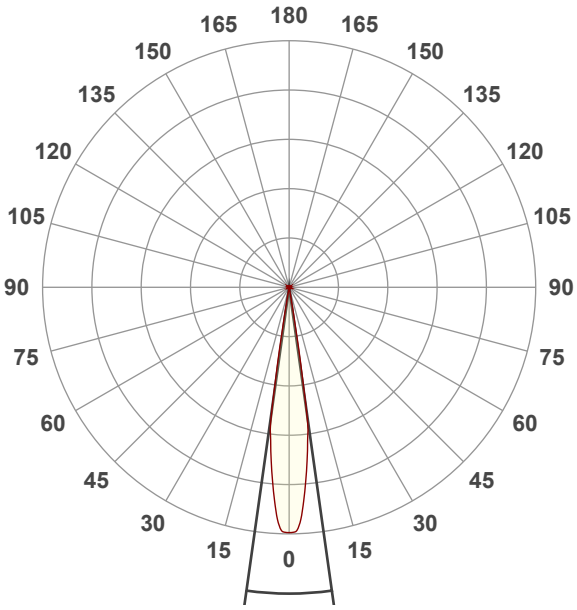
Green

Operator:

Giuseppe della Peruta

Date and time:

24/07/2025 15:23:13

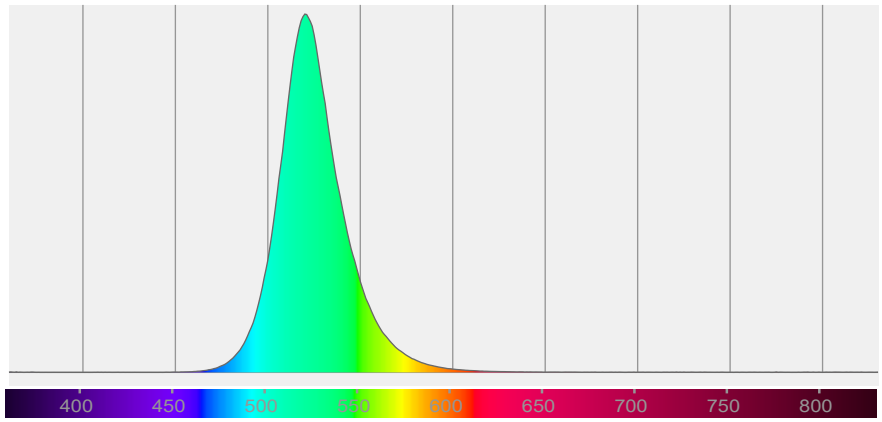


Beam angle 50%: 16°

Field angle 10%: 19,1°

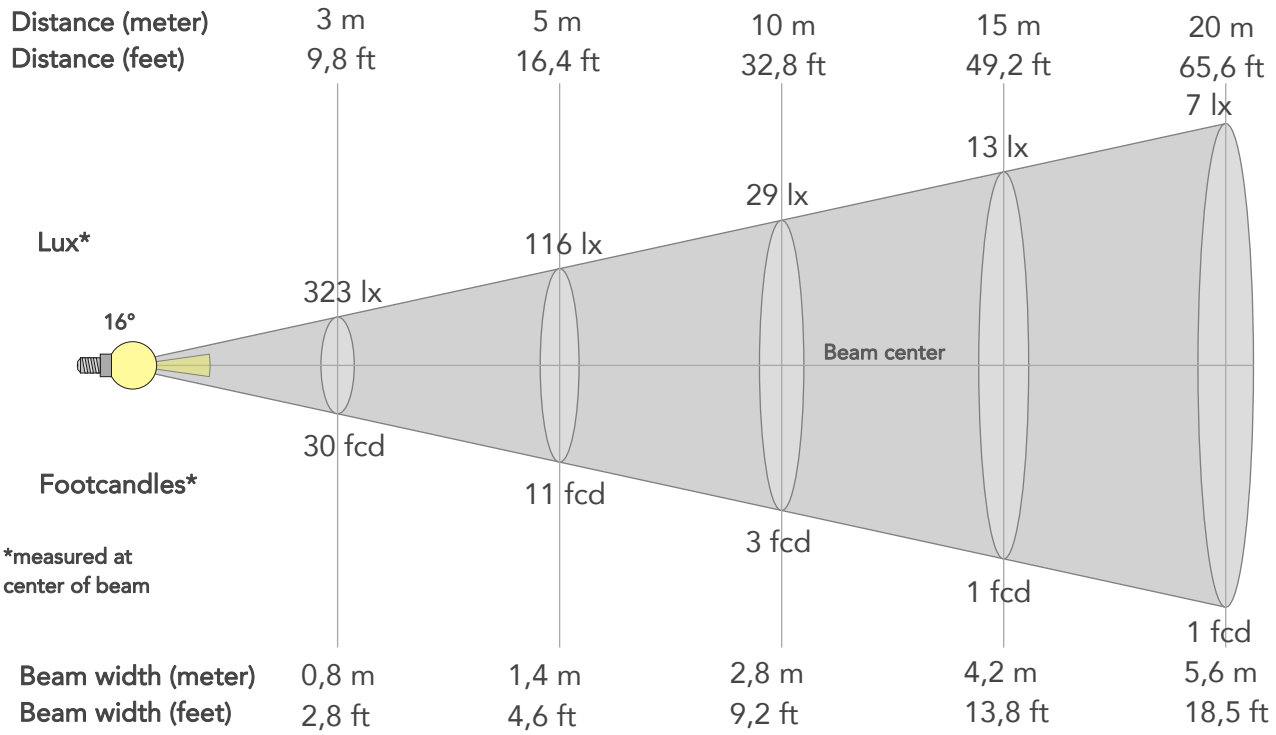
Cut off angle 2.5%: 19,7°

Spectra



BEAM DETAILS

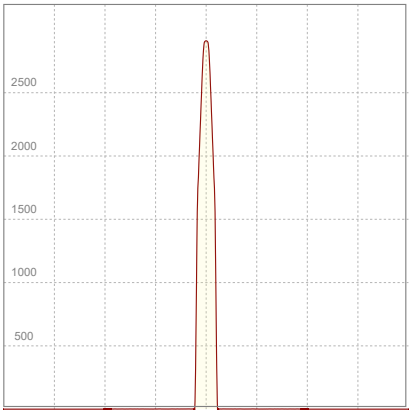
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	19,1°	19,7°	97,9%	97,1%



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	2907lx	727lx	323lx	182lx	116lx	52lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	270fcd	68fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,3m	14,1m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,5ft	23,1ft	27,7ft	36,9ft	46,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,080A	10,1W	0,55	16lm/W

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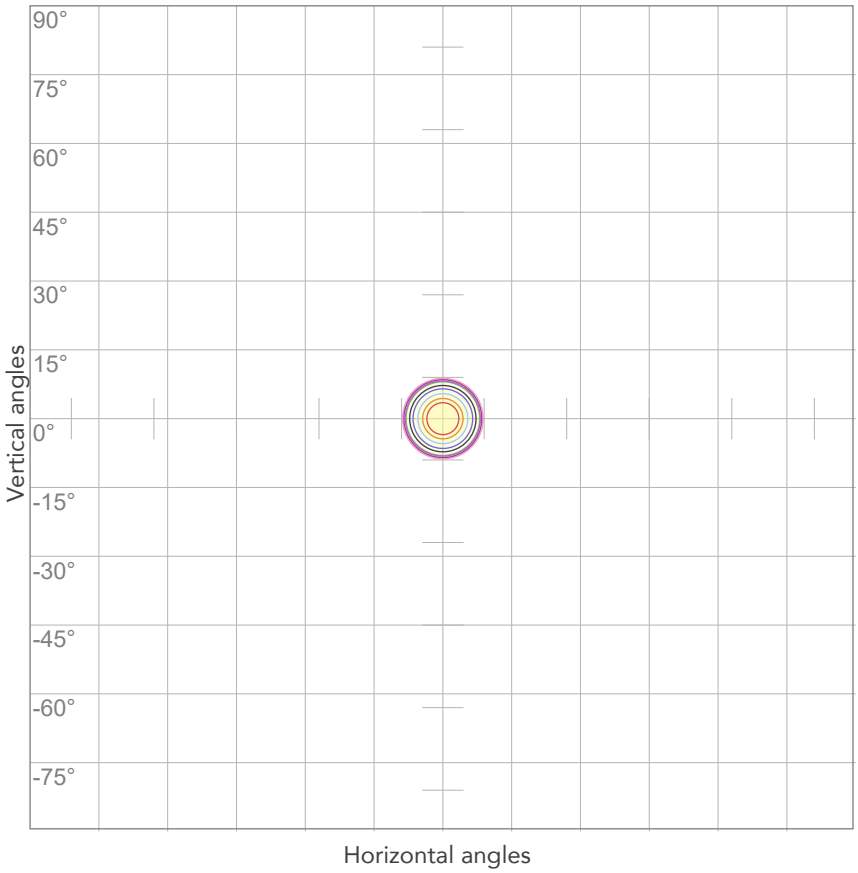
ISO DIAGRAMS

ISO CANDELA DIAGRAM



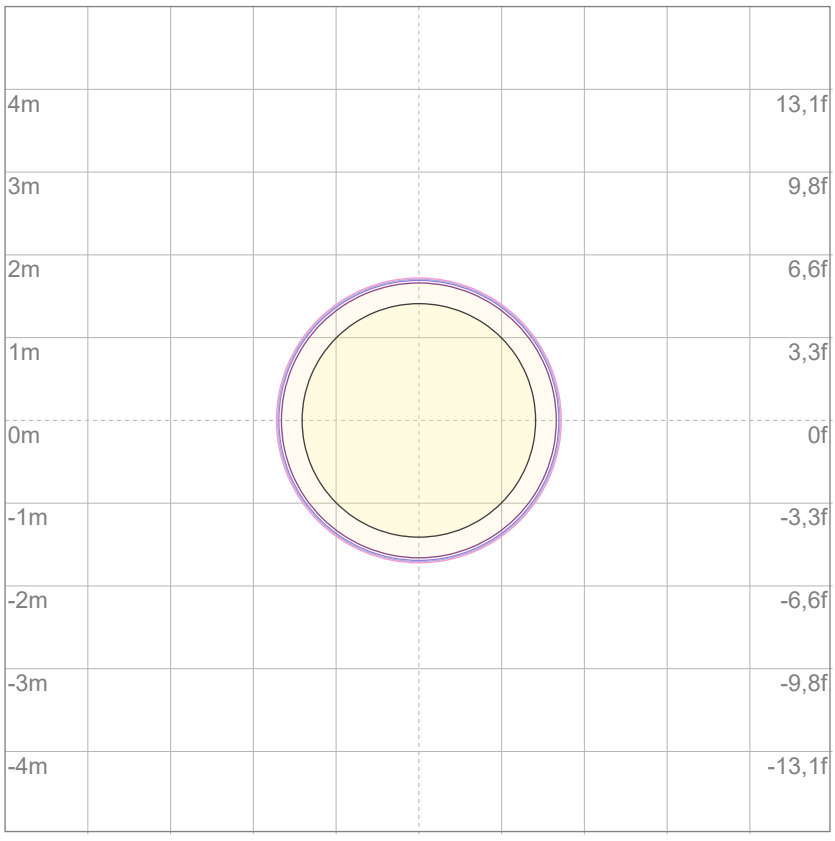
10%	291 cd
20%	581 cd
30%	872 cd
40%	1163 cd
50%	1453 cd
60%	1744 cd
70%	2035 cd
80%	2325 cd

Conditions:

Number of c-planes: 2

Candela at center: 2907 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,872 lx
5%	1,45 lx
10%	2,91 lx
30%	8,72 lx
50%	14,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 29,1 lx

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

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Total lumen output:

68,7 lm

Peak candela output:

872 cd

PRODUCT NAME:

ECLDISPLAYXBFC

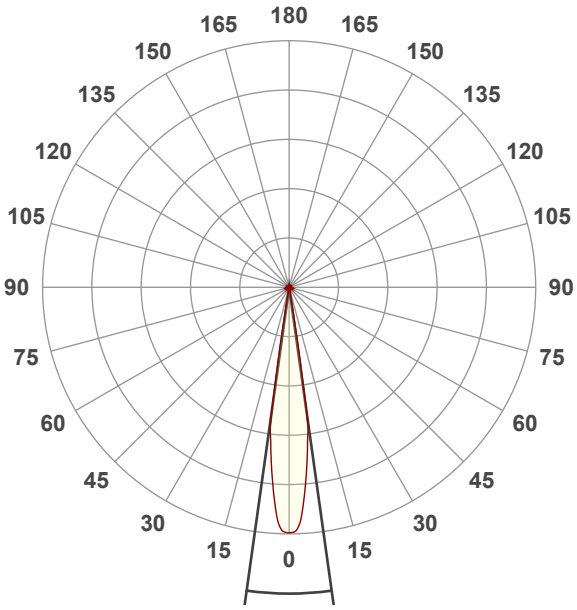
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
Blue

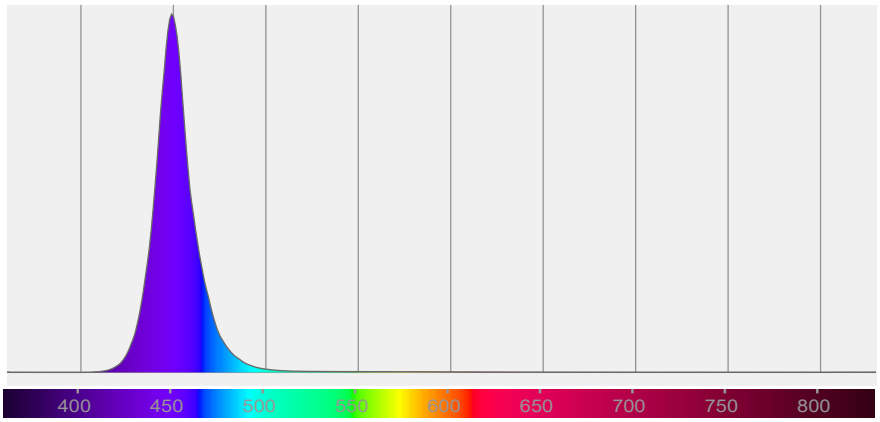
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 15:25:35



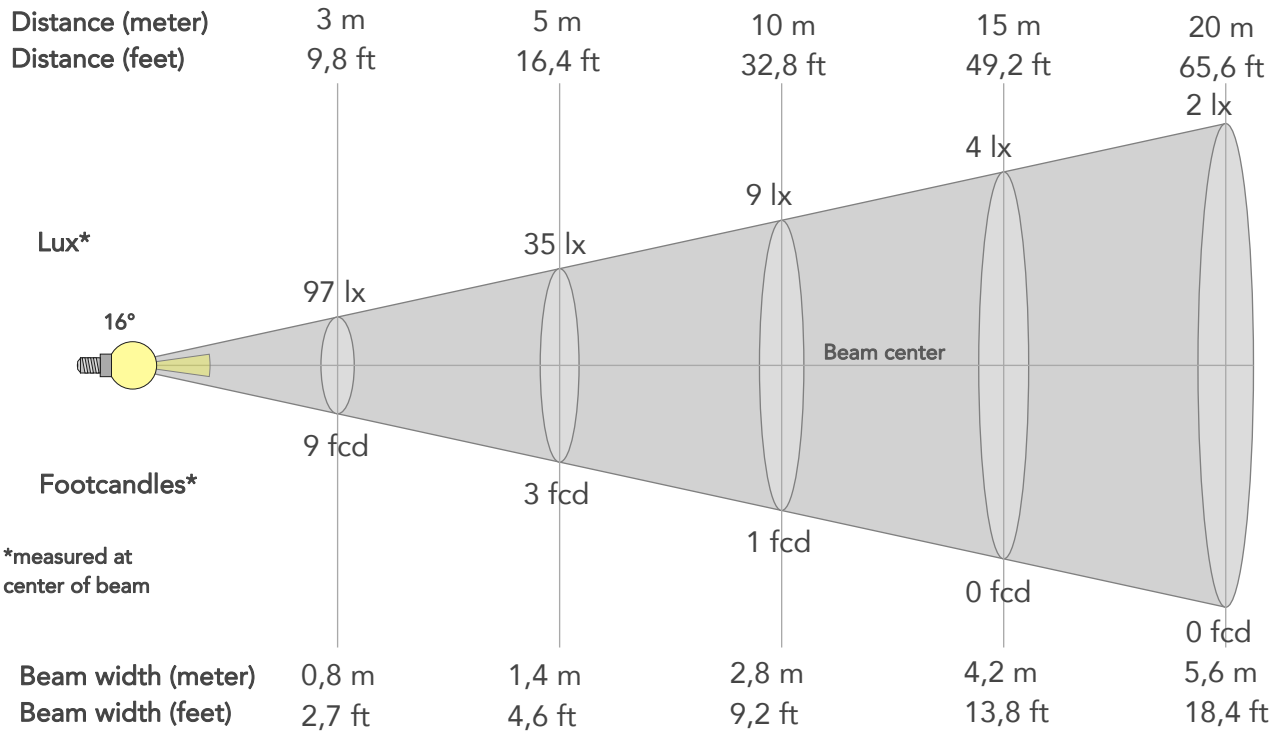
Beam angle 50%: 16°
Field angle 10%: 18,9°
Cut off angle 2.5%: 19,5°

Spectra



BEAM DETAILS

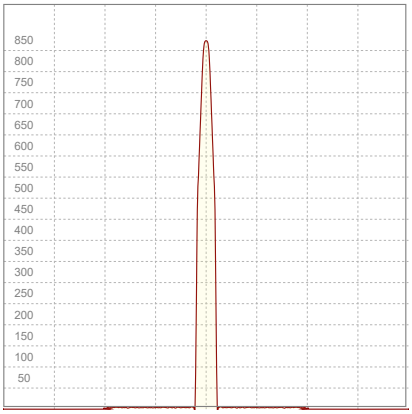
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	18,9°	19,5°	83,1%	76,5%



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	872lx	218lx	97lx	54lx	35lx	16lx	9lx	4lx	2lx	1lx	1lx	1lx	0lx
Footcand.	81fcd	20fcd	9fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,8ft	2,7ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,4ft	23ft	27,6ft	36,8ft	46ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,088A	11,0W	0,55	61m/W

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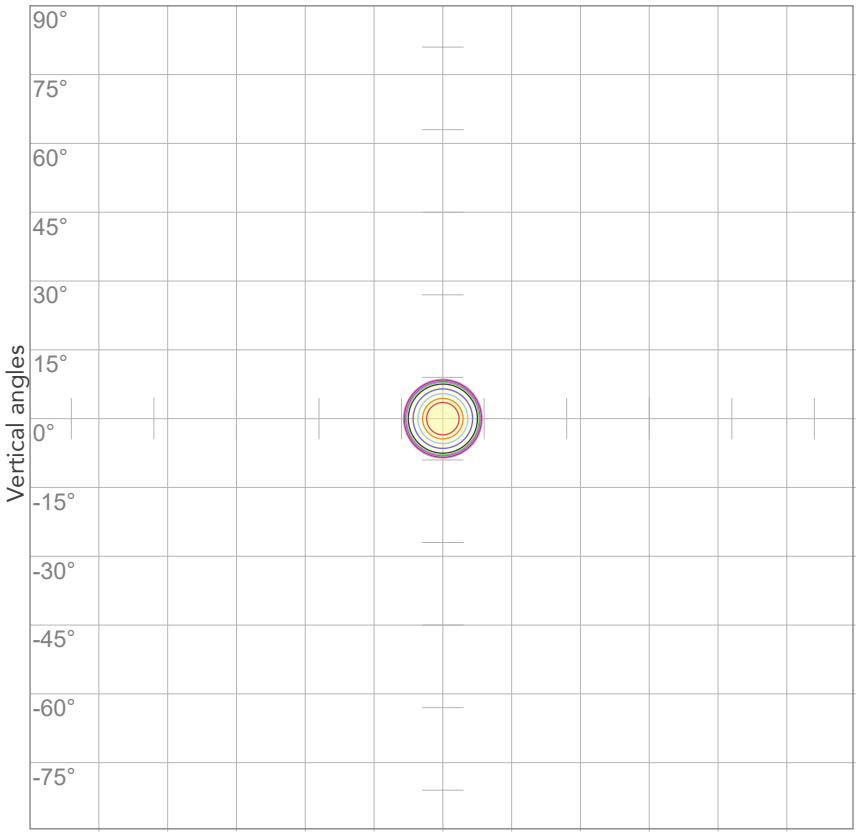
ISO DIAGRAMS

ISO CANDELA DIAGRAM



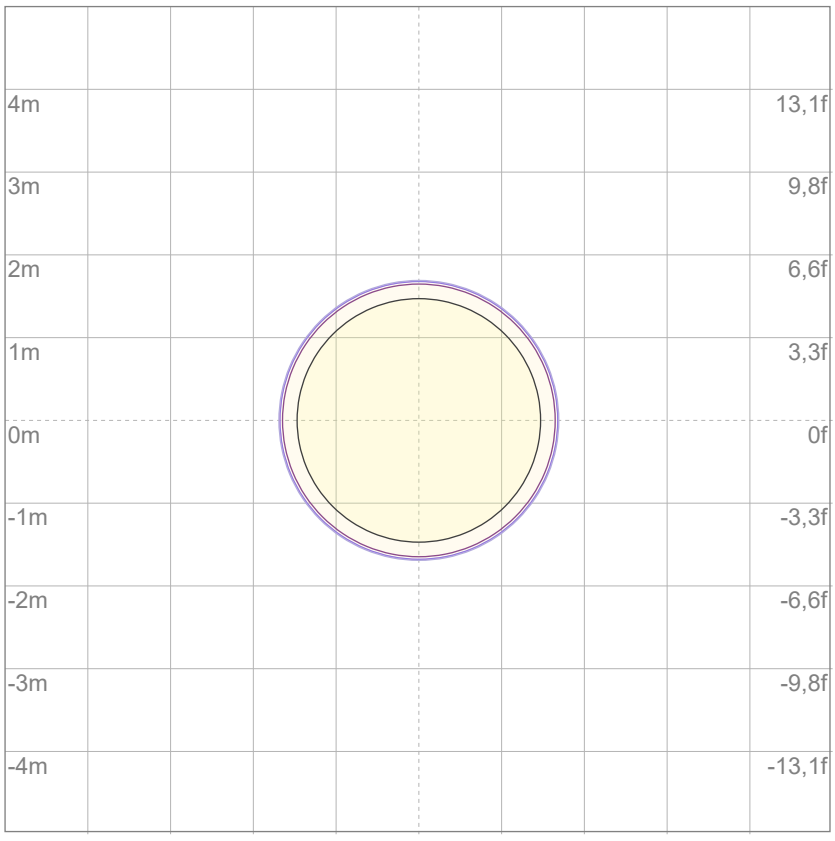
10%	87 cd
20%	174 cd
30%	262 cd
40%	349 cd
50%	436 cd
60%	523 cd
70%	610 cd
80%	698 cd

Conditions:

Number of c-planes: 2

Candela at center: 872 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0,262 lx
5%	0,436 lx
10%	0,872 lx
30%	2,62 lx
50%	4,36 lx

Conditions:

Number of c-planes: 2

Lux at center: 8,72 lx

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

Total lumen output:

413 lm

Peak candela output:

7649 cd

PRODUCT NAME:

ECLDISPLAYXBFC

MEASURAMENT CONDITIONS:

Beam angle:

Profile 18° HD

Target:

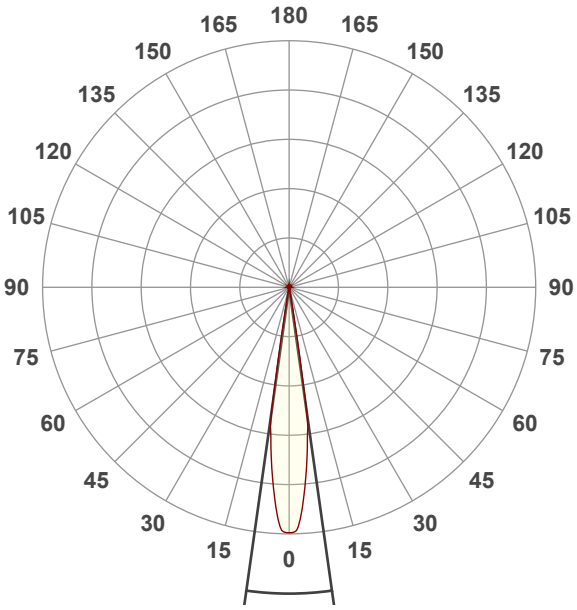
Lime

Operator:

Giuseppe della Peruta

Date and time:

24/07/2025 15:28:09

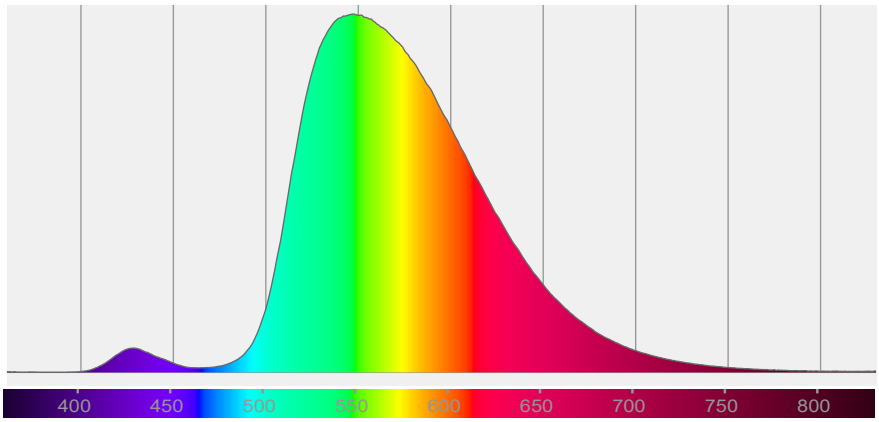


Beam angle 50%: 16,1°

Field angle 10%: 19°

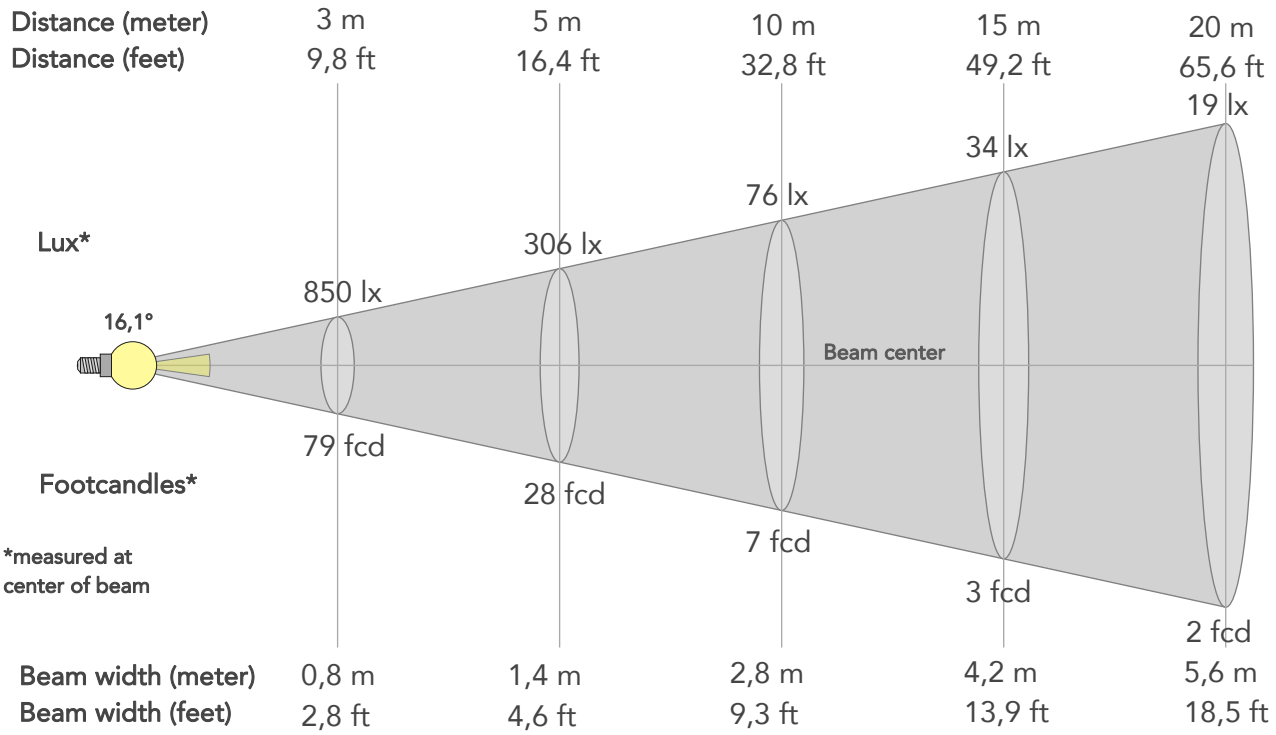
Cut off angle 2.5%: 19,7°

Spectra



BEAM DETAILS

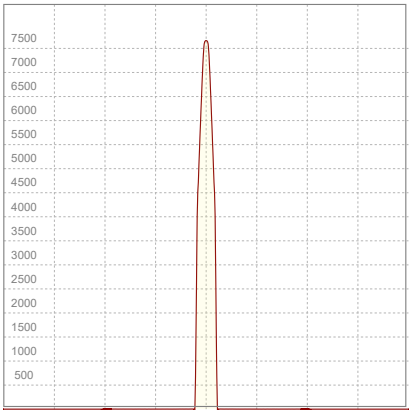
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,1°	19°	19,7°	98,9%	98,6%



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	7649lx	1912lx	850lx	478lx	306lx	136lx	76lx	34lx	19lx	12lx	8lx	5lx	3lx
Footcand.	711fcd	178fcd	79fcd	44fcd	28fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7,1m	8,5m	11,3m	14,1m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,3ft	13,9ft	18,5ft	23,1ft	27,8ft	37ft	46,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,108A	19,3W	0,79	21lm/W

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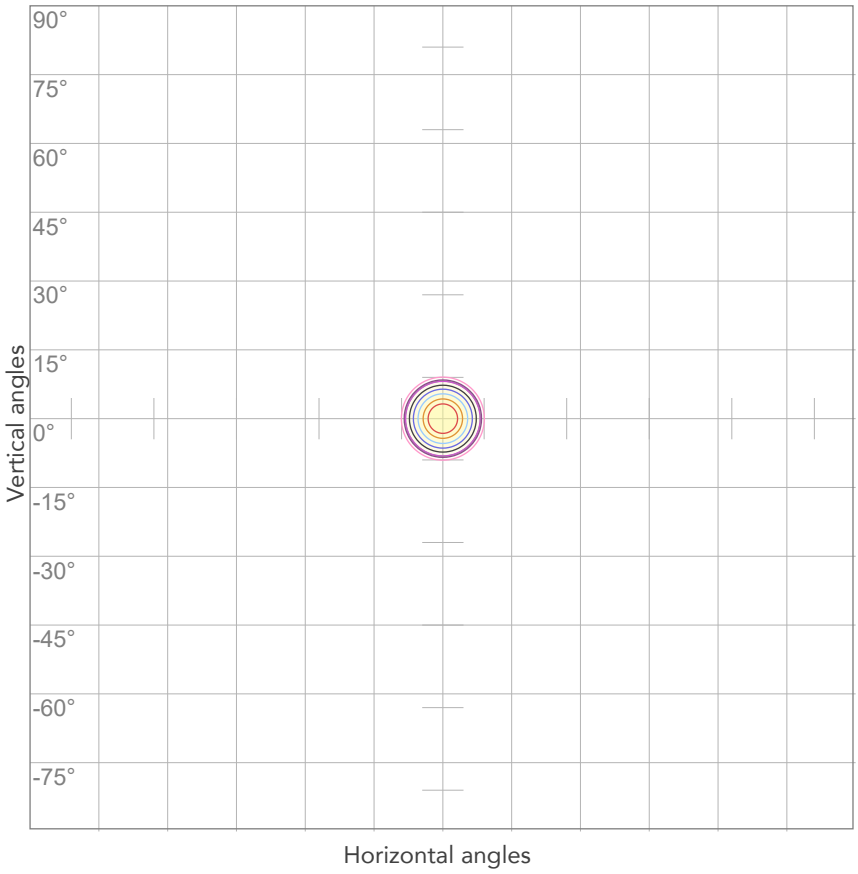
ISO DIAGRAMS

ISO CANDELA DIAGRAM



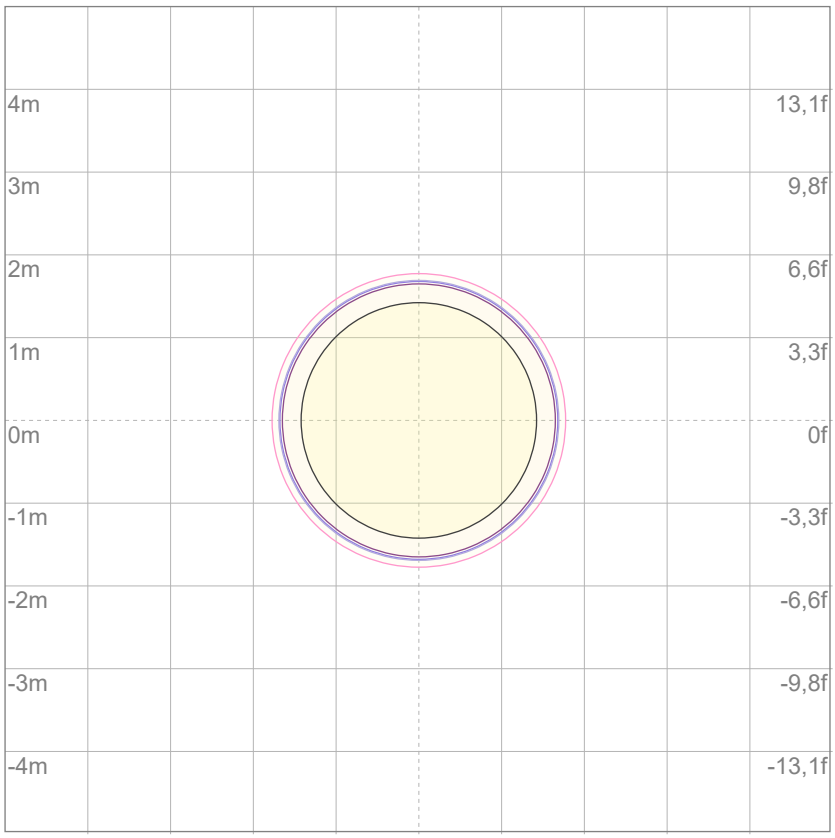
10%	765 cd
20%	1530 cd
30%	2295 cd
40%	3060 cd
50%	3825 cd
60%	4590 cd
70%	5355 cd
80%	6119 cd

Conditions:

Number of c-planes: 2

Candela at center: 7649 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,29 lx
5%	3,82 lx
10%	7,65 lx
30%	22,9 lx
50%	38,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 76,5 lx

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

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Total lumen output:

420 lm

Peak candela output:

7701 cd

Light quality:

CRI: 84,0

Color temperature:

2892 K

PRODUCT NAME:

ECLDISPLAYXBFC

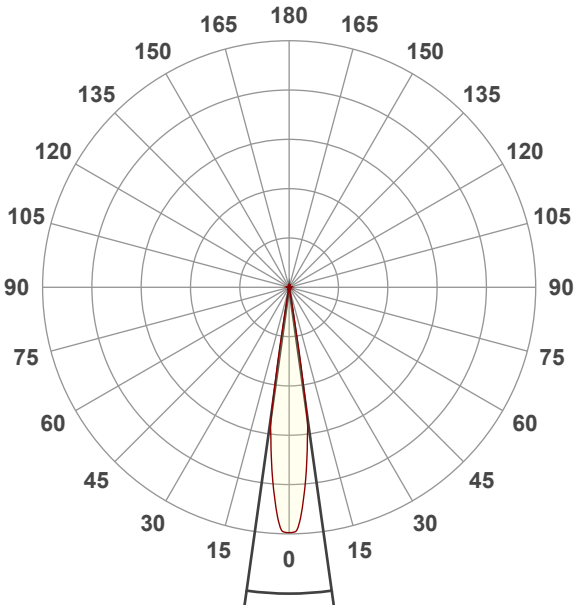
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
2800K

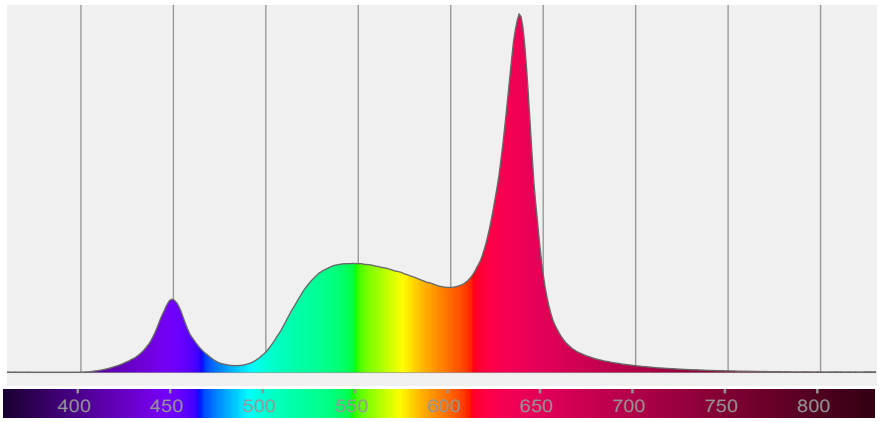
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 15:12:09



Beam angle 50%: 16°
Field angle 10%: 19°
Cut off angle 2.5%: 19,7°

Spectra



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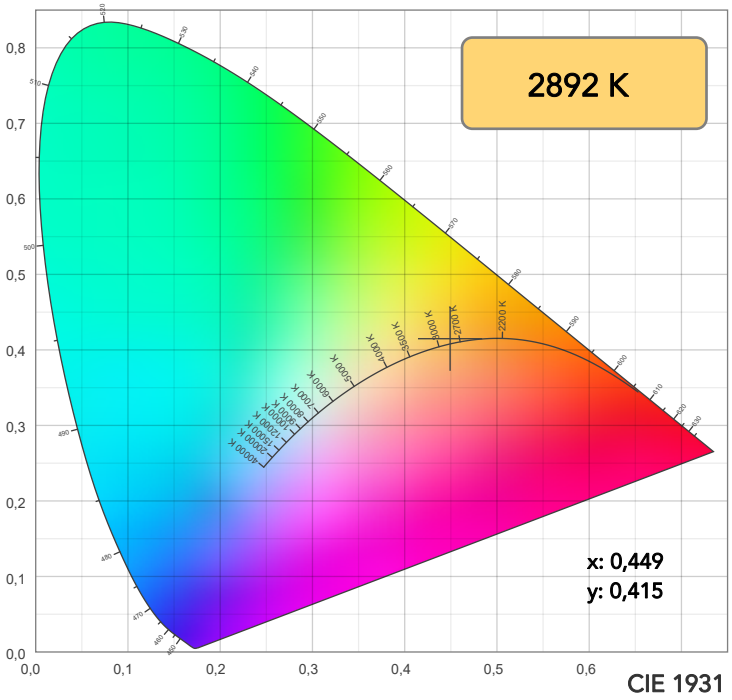
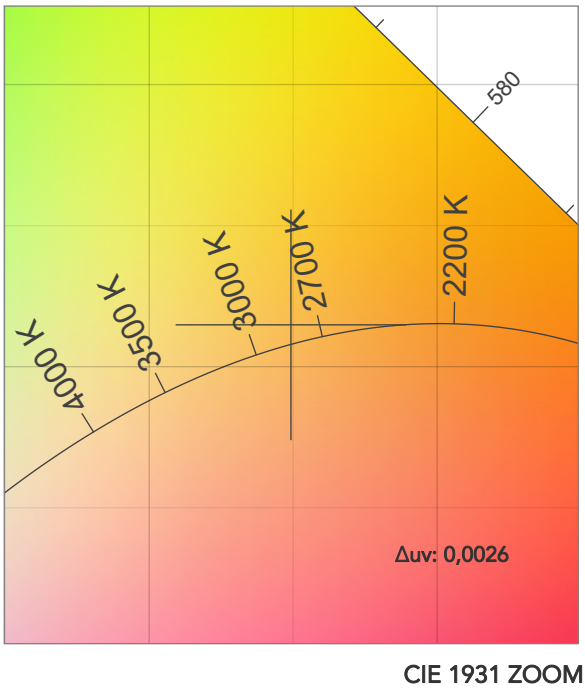
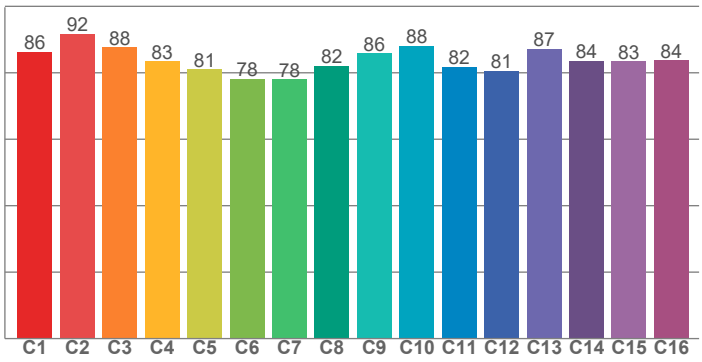
COLOR DETAILS

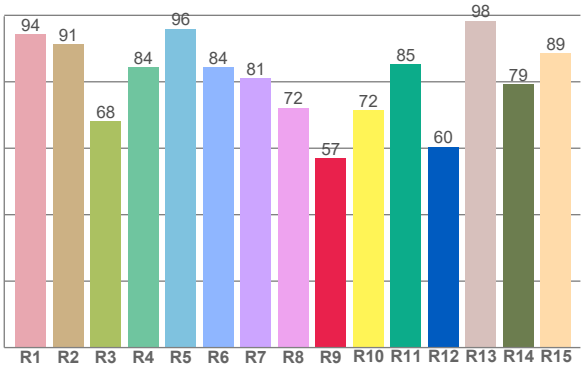




TM30: 84,4



CRI: 84,0 (R1-R8)



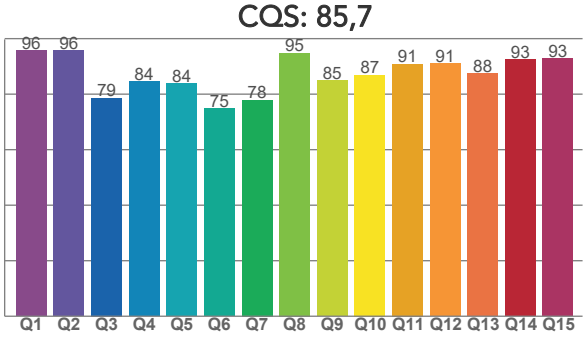
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,4	91,3	68,2	84,4	96,0	84,3	81,0	72,2	57,1	71,5	85,4	60,5	98,4	79,3	88,7

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
86,4	91,8	87,7	83,5	81,0	78,2	78,0	82,1	85,8	88,2	81,8	80,7	87,2	83,6	83,4	83,8

CQS: 85,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,7	95,7	78,7	84,5	83,8	74,9	77,9	94,8	84,8	86,8	90,8	91,1	87,5	92,5	92,8

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2892 K	84,0	57,1	84,4	110,1	85,7	71	0,449	0,415	0,0026

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TM30 DETAILS

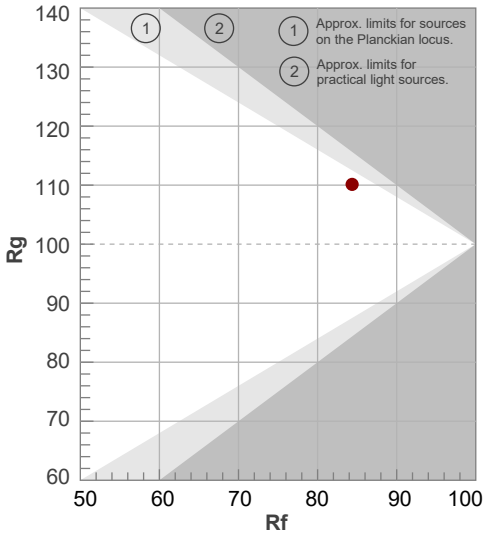
Rf 84,4

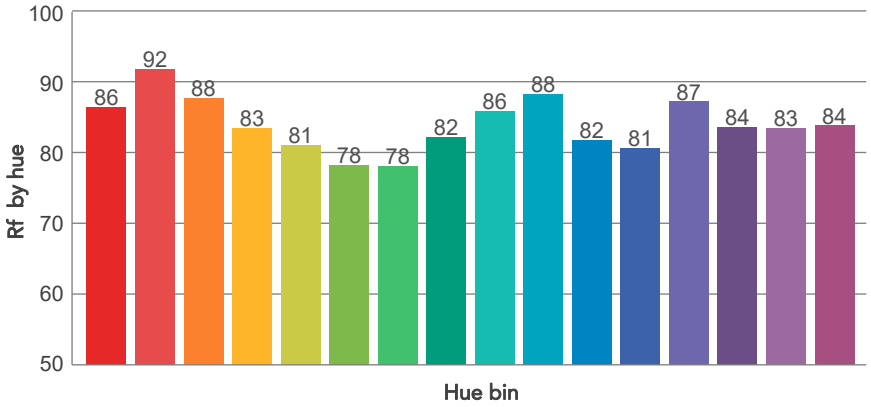
Fidelity index Rf

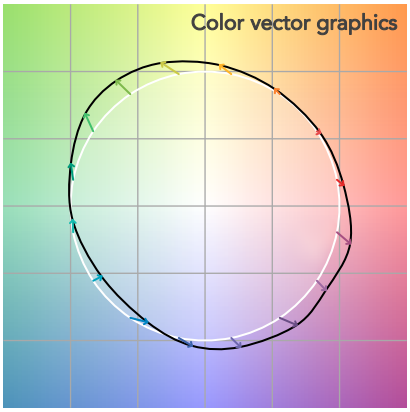
Rg 110,1

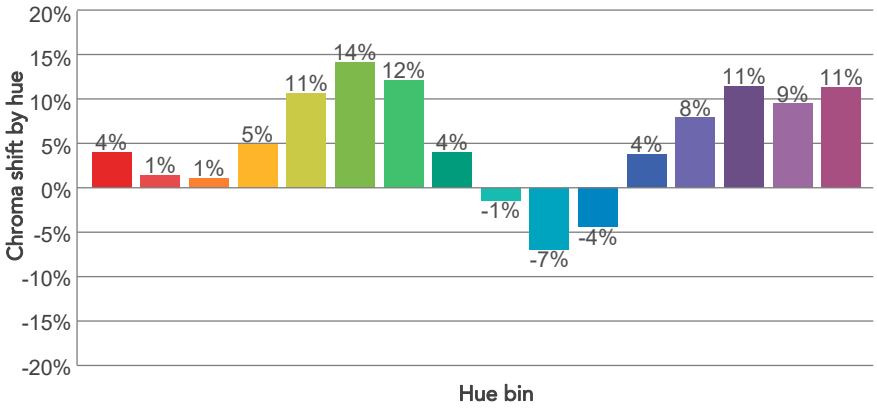
Gammut index

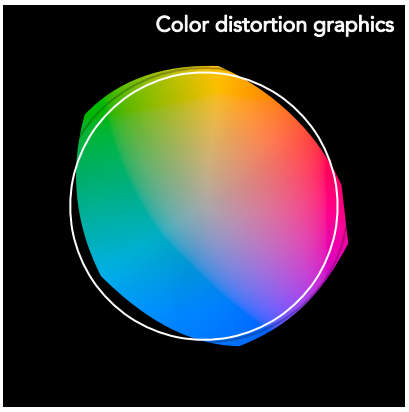
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	86	4%	-5%
2	92	1%	-2%
3	88	1%	5%
4	83	5%	10%
5	81	11%	11%
6	78	14%	3%
7	78	12%	-7%
8	82	4%	-11%
9	86	-1%	-9%
10	88	-7%	1%
11	82	-4%	12%
12	81	4%	11%
13	87	8%	5%
14	84	11%	7%
15	83	9%	-2%
16	84	11%	-6%

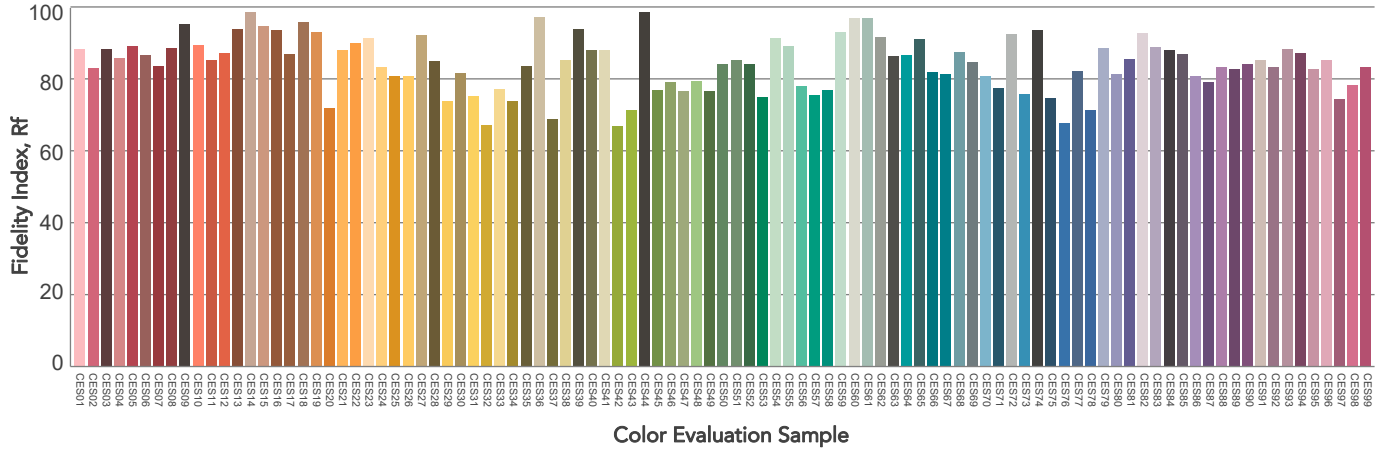












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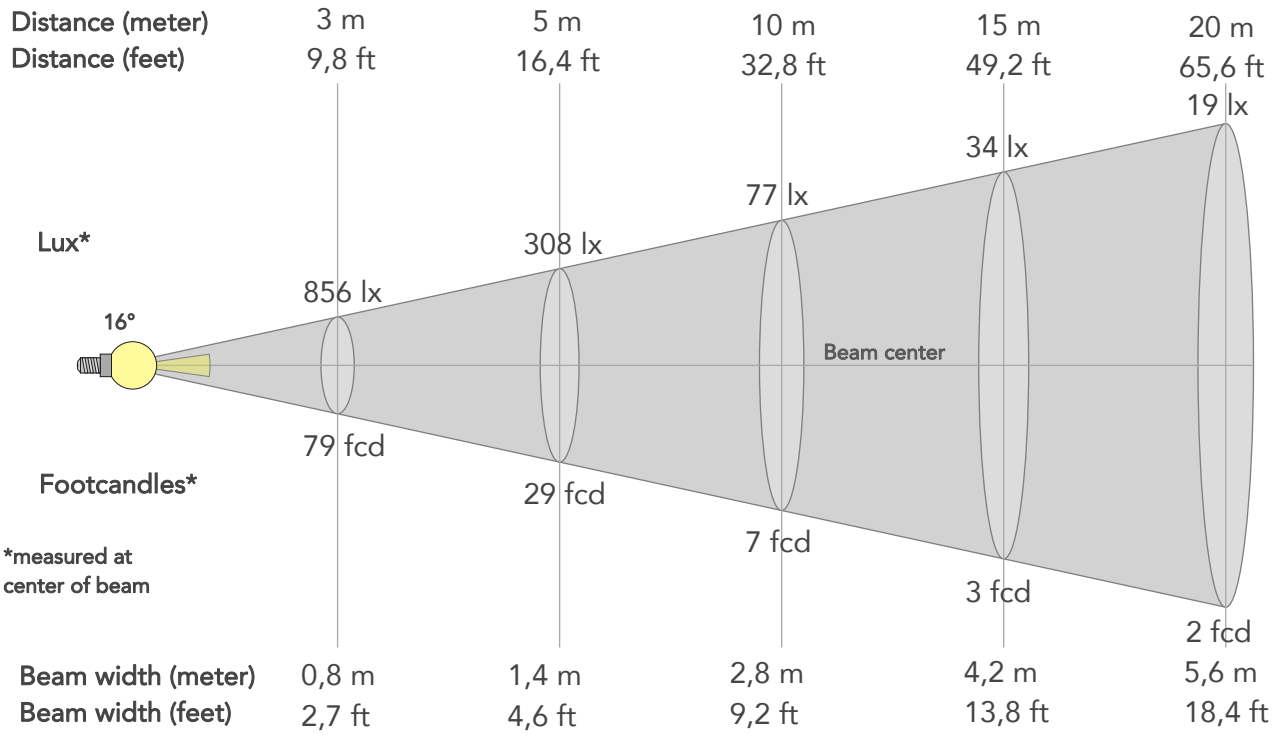
BEAM DETAILS

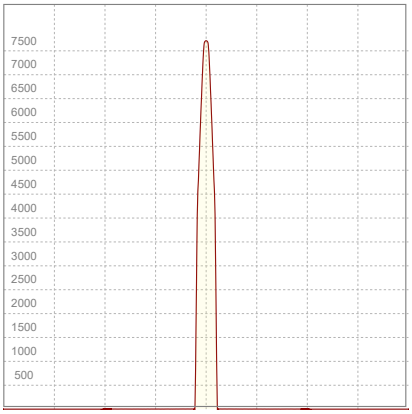
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	19°	19,7°	98,5%	98,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	7701lx	1925lx	856lx	481lx	308lx	137lx	77lx	34lx	19lx	12lx	9lx	5lx	3lx
Footcand.	715fcd	179fcd	79fcd	45fcd	29fcd	13fcd	7fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,9ft	2,7ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,4ft	23ft	27,6ft	36,8ft	46ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,134A	22,2W	0,73	19lm/W

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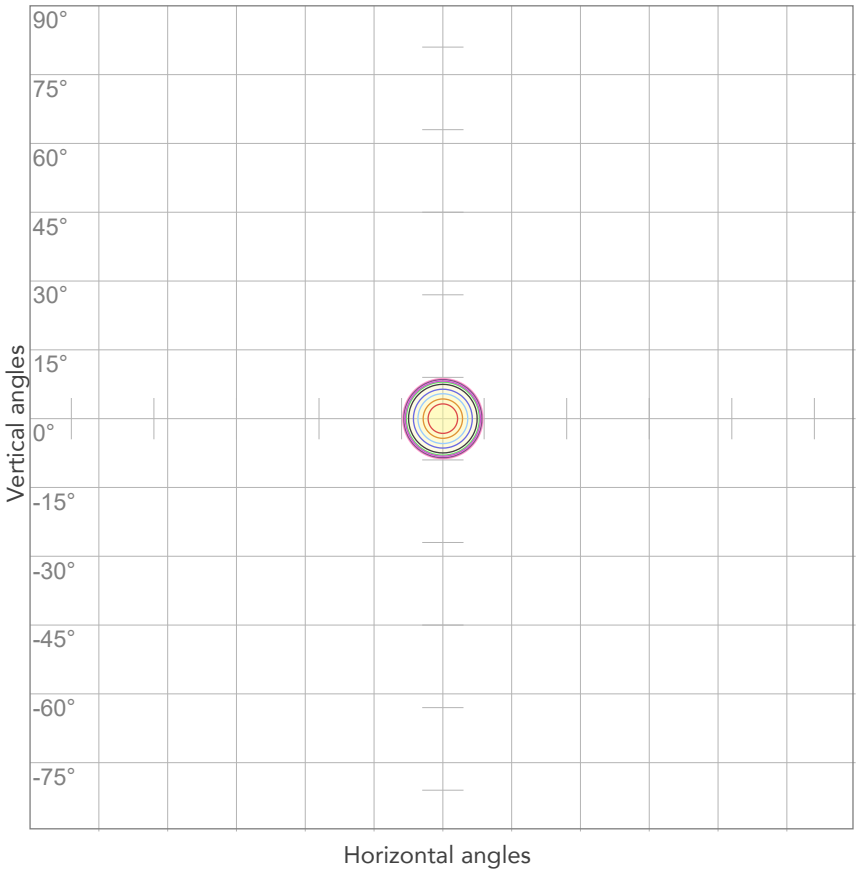
ISO DIAGRAMS

ISO CANDELA DIAGRAM



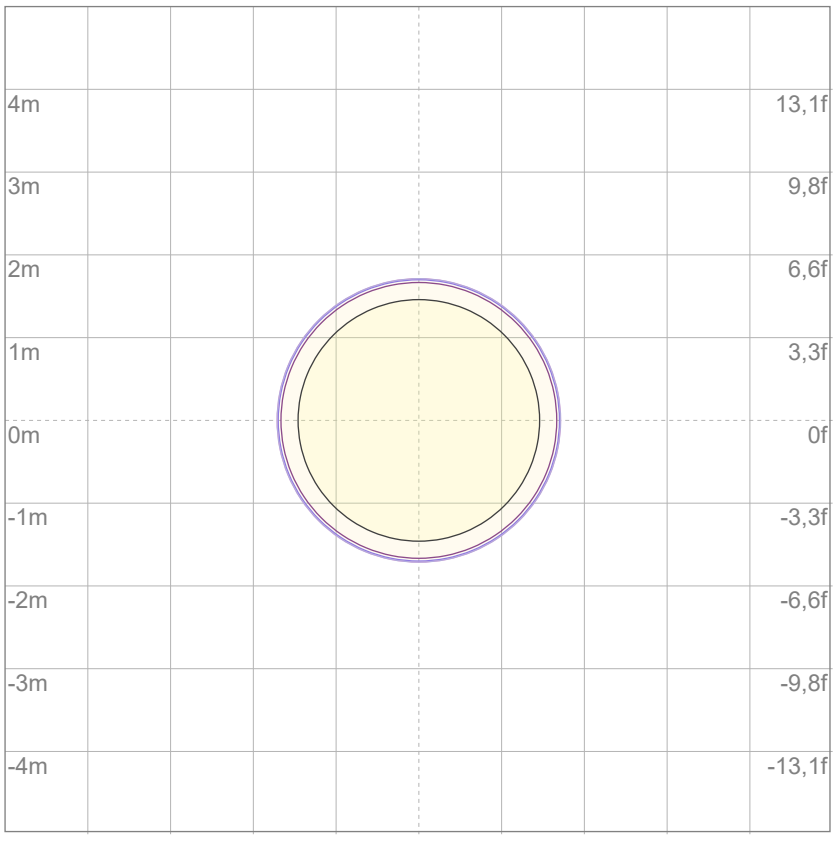
10%	770 cd
20%	1540 cd
30%	2310 cd
40%	3080 cd
50%	3850 cd
60%	4620 cd
70%	5390 cd
80%	6161 cd

Conditions:

Number of c-planes: 2

Candela at center: 7701 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,31 lx
5%	3,85 lx
10%	7,70 lx
30%	23,1 lx
50%	38,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 77,0 lx

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

Total lumen output:

468 lm

Peak candela output:

8624 cd

Light quality:

CRI: 84,3

Color temperature:

3215 K

PRODUCT NAME:

ECLDISPLAYXBFC

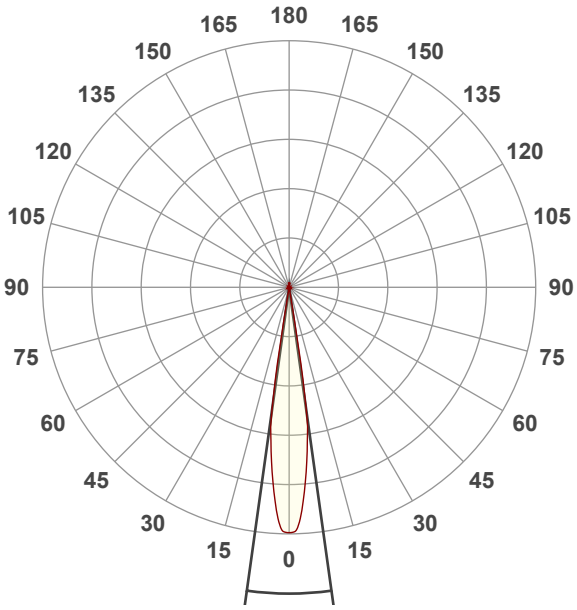
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
3200K

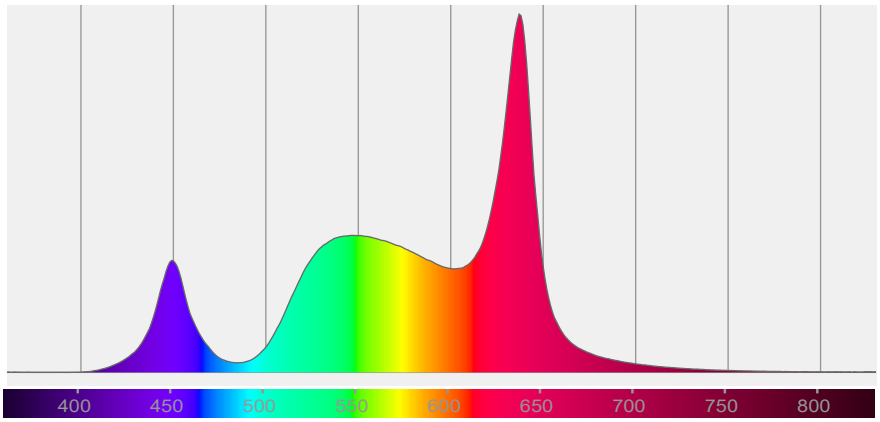
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 15:08:24

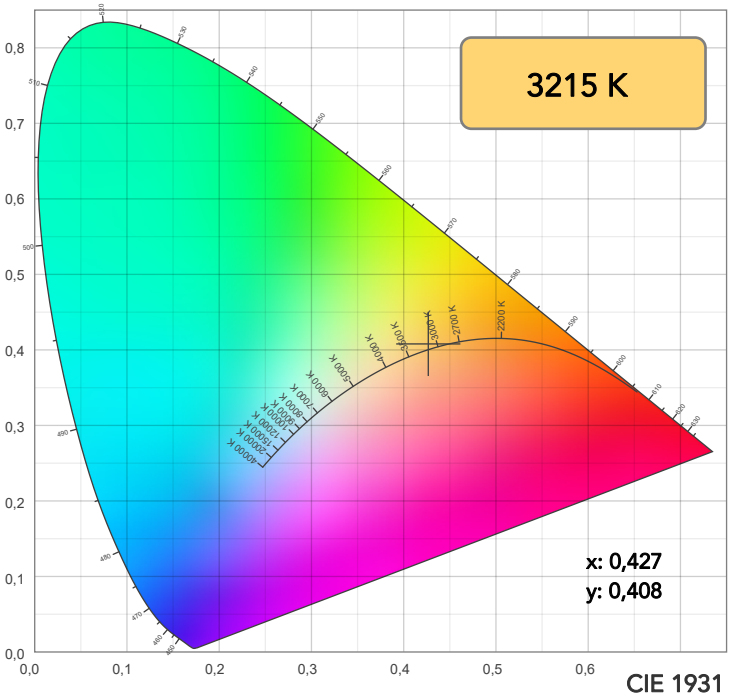


Beam angle 50%: 15,9°
Field angle 10%: 18,9°
Cut off angle 2.5%: 19,4°

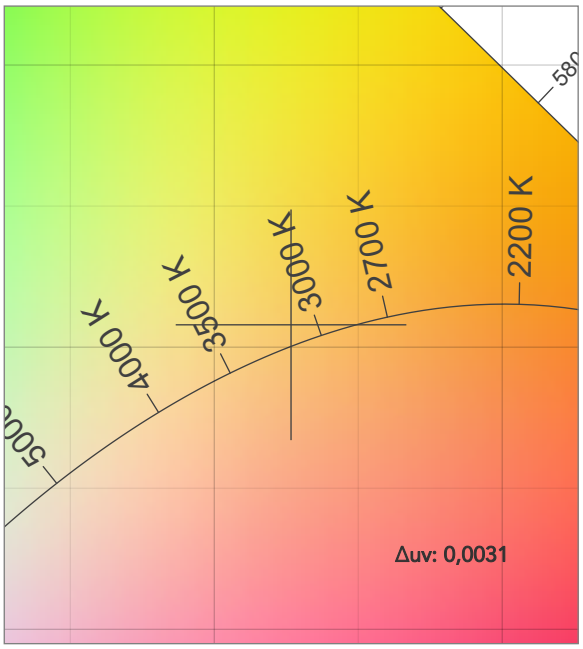
Spectra



COLOR DETAILS

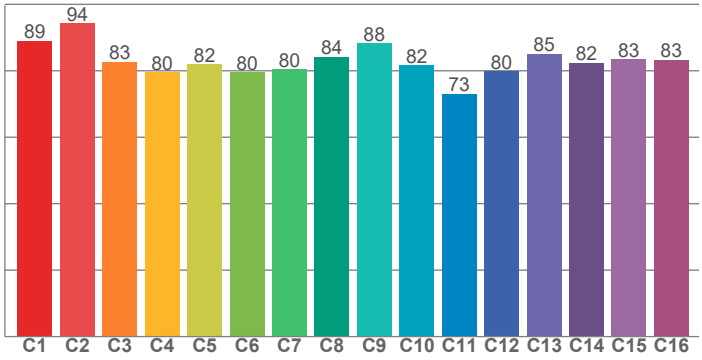


CIE 1931

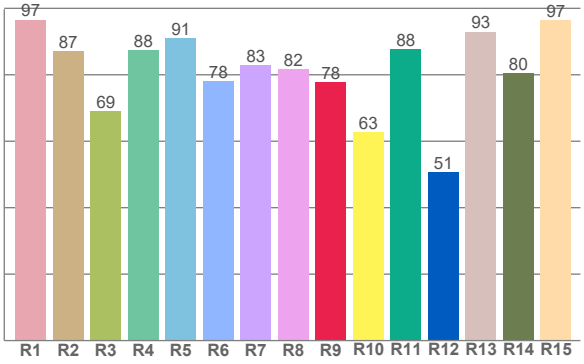


CIE 1931 ZOOM

TM30: 83,3



CRI: 84,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,6	87,1	69,1	87,5	91,1	78,0	83,0	81,6	77,7	62,7	87,8	50,6	93,0	80,4	96,5

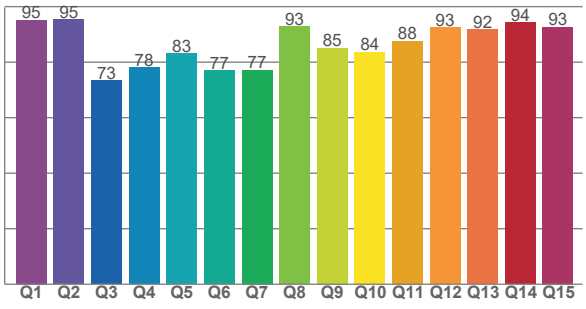
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,1	94,2	82,7	79,6	82,0	79,6	80,5	84,2	88,3	81,6	73,0	79,8	85,1	82,4	83,5	83,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,1	95,4	73,3	78,0	83,0	76,9	77,2	92,9	85,1	83,6	87,6	92,6	91,8	94,3	92,7

CQS: 84,6



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3215 K	84,3	77,7	83,3	108,0	84,6	72	0,427	0,408	0,0031

TM30 DETAILS

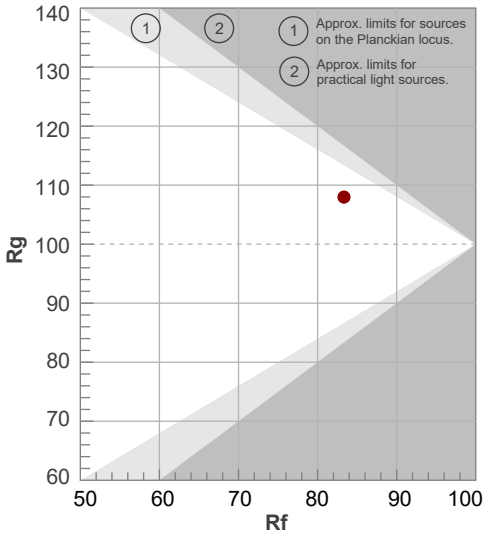
Rf 83,3

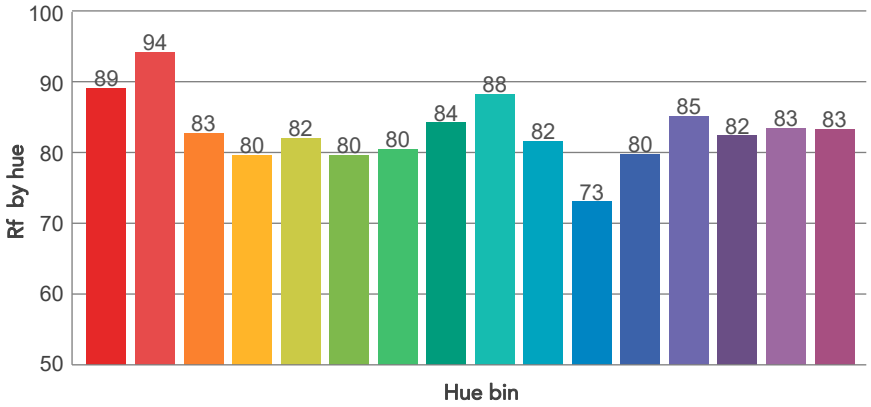
Fidelity index Rf

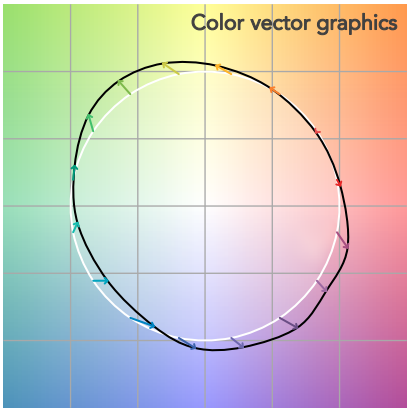
Rg 108,0

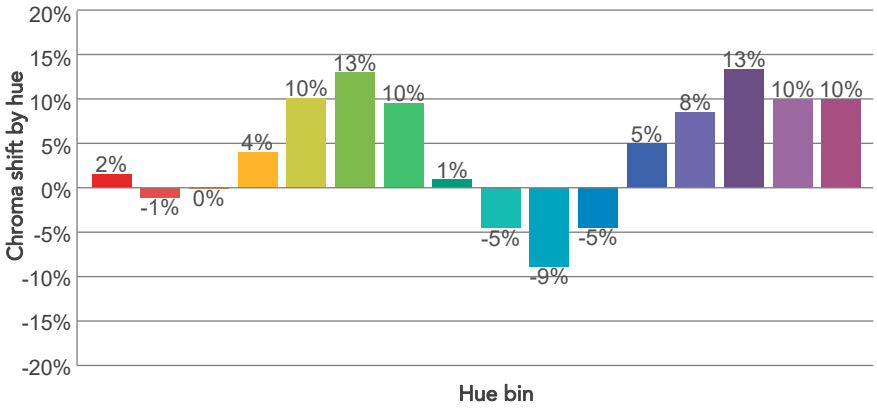
Gammut index

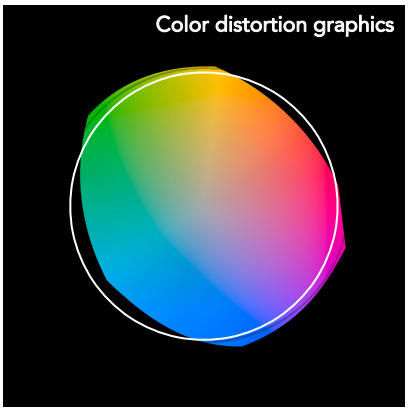
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	89	2%	-5%
2	94	-1%	0%
3	83	0%	8%
4	80	4%	12%
5	82	10%	10%
6	80	13%	2%
7	80	10%	-8%
8	84	1%	-10%
9	88	-5%	-6%
10	82	-9%	6%
11	73	-5%	18%
12	80	5%	13%
13	85	8%	7%
14	82	13%	7%
15	83	10%	-3%
16	83	10%	-10%

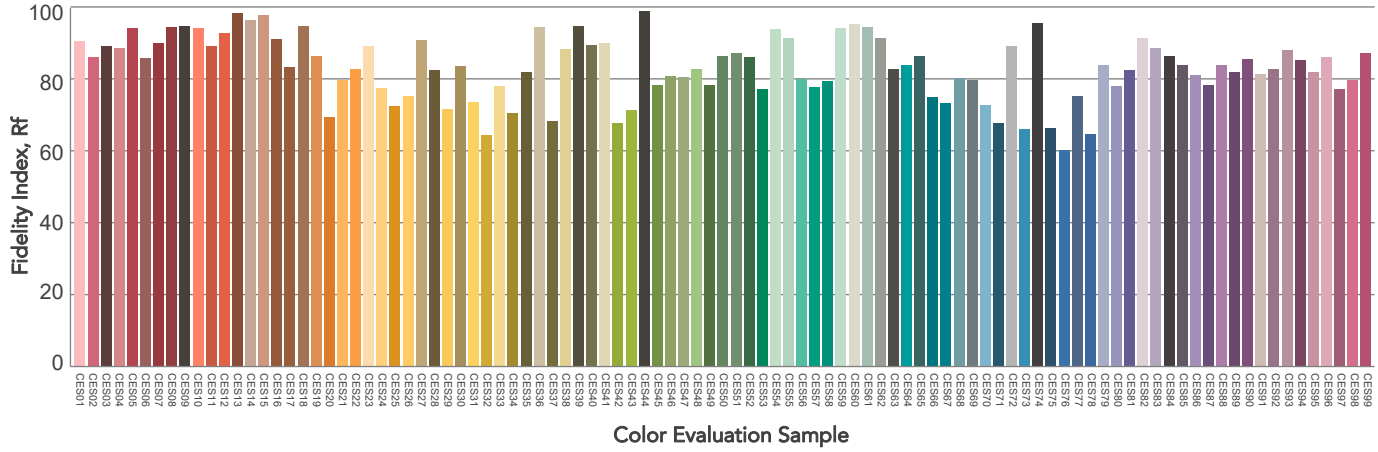












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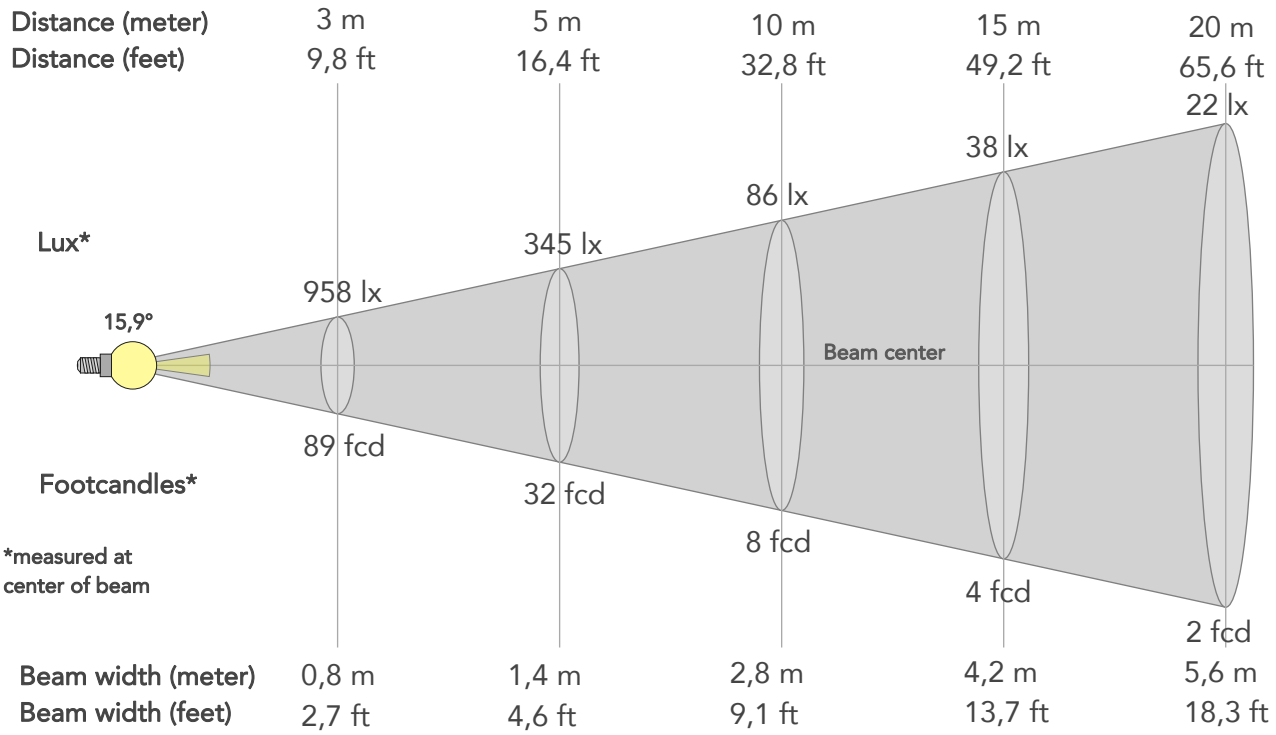
BEAM DETAILS

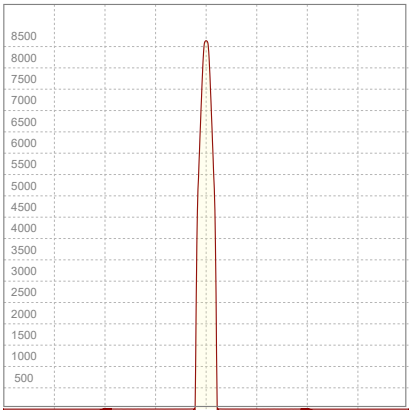
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,9°	18,9°	19,4°	98,6%	98,2%



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	8624lx	2156lx	958lx	539lx	345lx	153lx	86lx	38lx	22lx	14lx	10lx	5lx	3lx
Footcand.	801fcd	200fcd	89fcd	50fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	13,9m
Beam wid.	0,9ft	1,8ft	2,7ft	3,7ft	4,6ft	6,9ft	9,1ft	13,7ft	18,3ft	22,9ft	27,4ft	36,6ft	45,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,143A	24,6W	0,76	19lm/W

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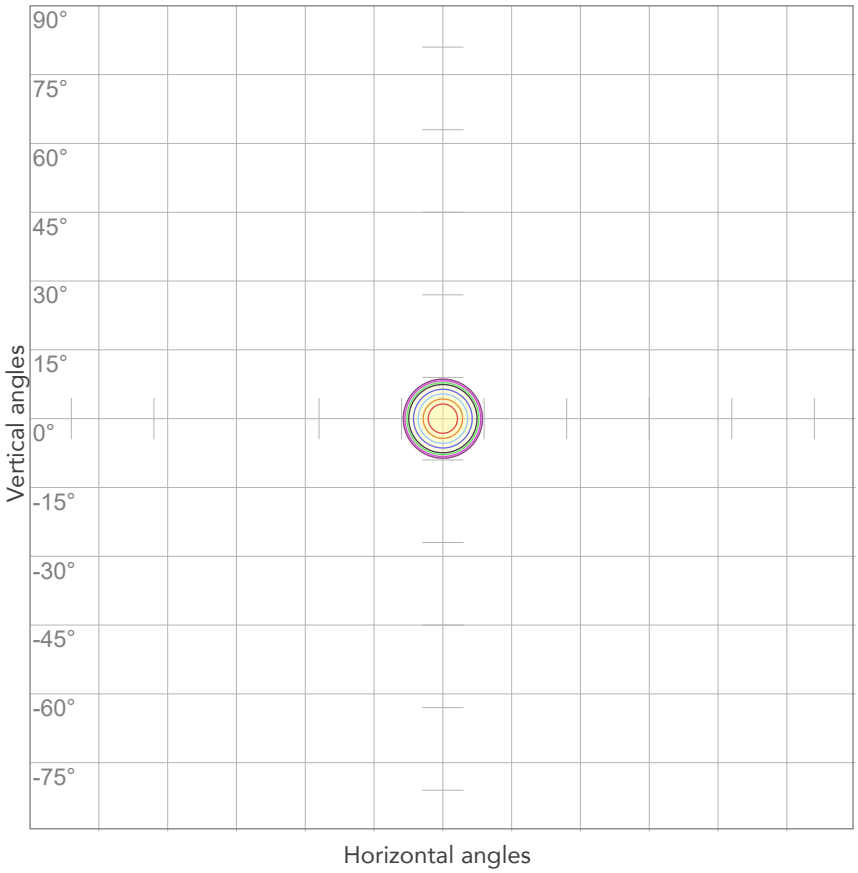
ISO DIAGRAMS

ISO CANDELA DIAGRAM



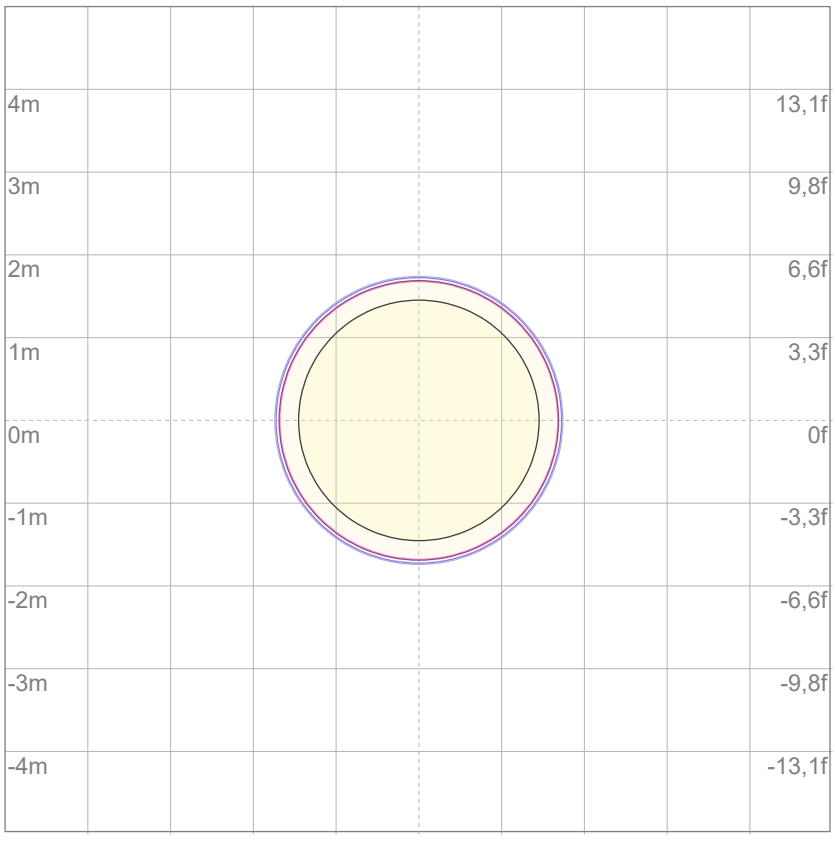
10%	862 cd
20%	1725 cd
30%	2587 cd
40%	3450 cd
50%	4312 cd
60%	5175 cd
70%	6037 cd
80%	6899 cd

Conditions:

Number of c-planes: 2

Candela at center: 8624 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

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

Conditions:

Number of c-planes: 2

Lux at center: 86,2 lx

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

Total lumen output:

461 lm

Peak candela output:

8509 cd

Light quality:

CRI: 82,6

Color temperature:

3999 K

PRODUCT NAME:

ECLDISPLAYXBFC

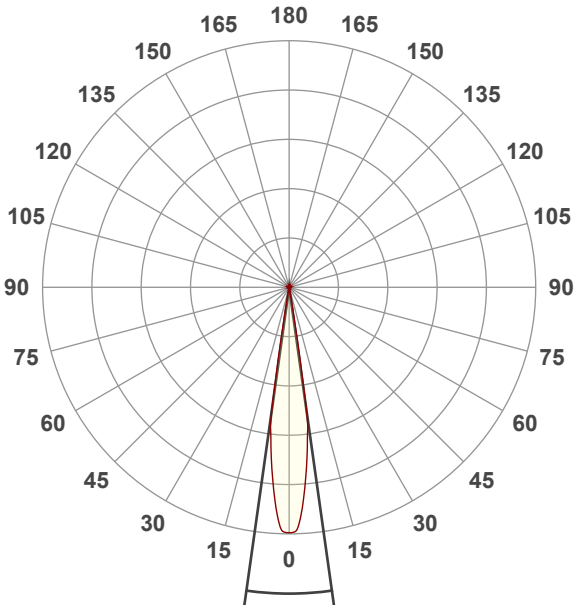
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
4000K

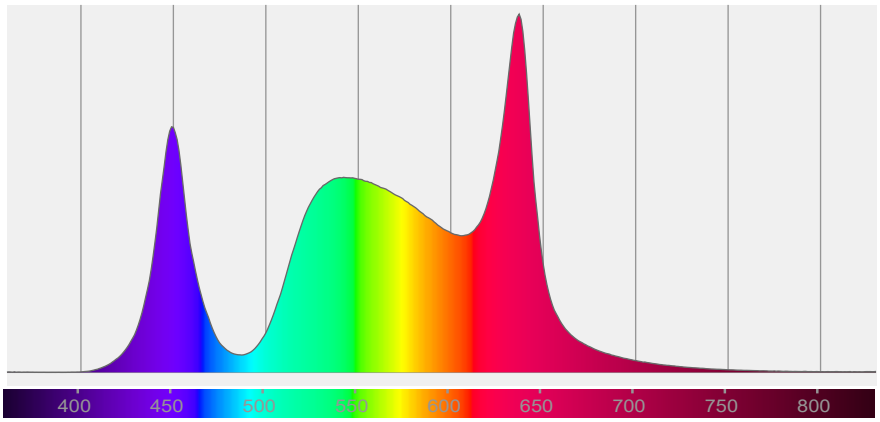
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 15:01:36

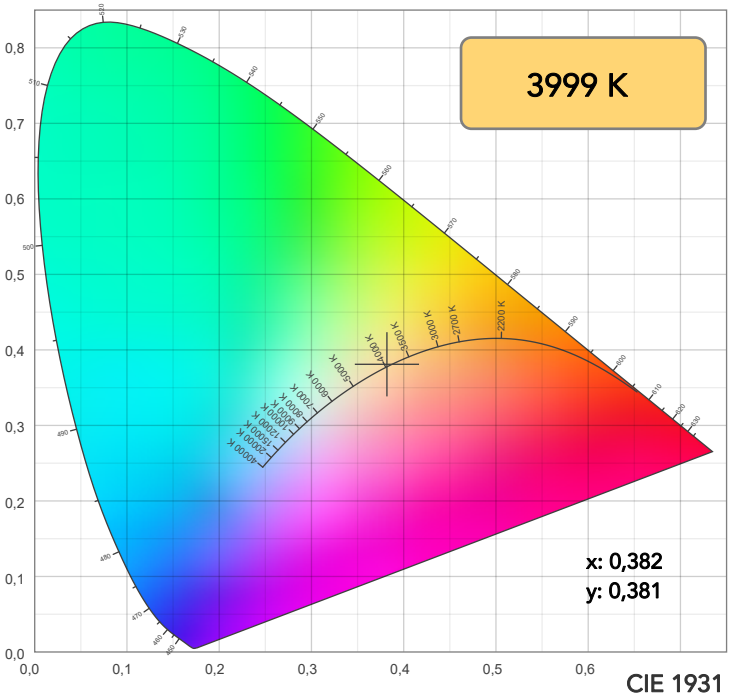


Beam angle 50%: 16°
Field angle 10%: 19°
Cut off angle 2.5%: 19,7°

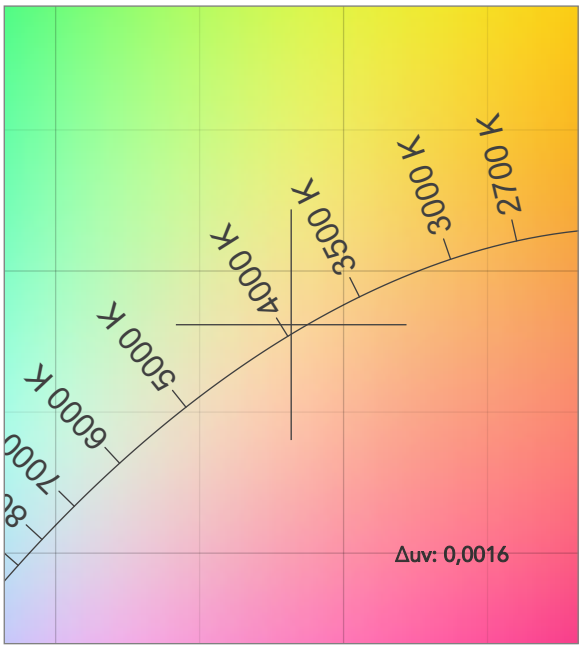
Spectra



COLOR DETAILS

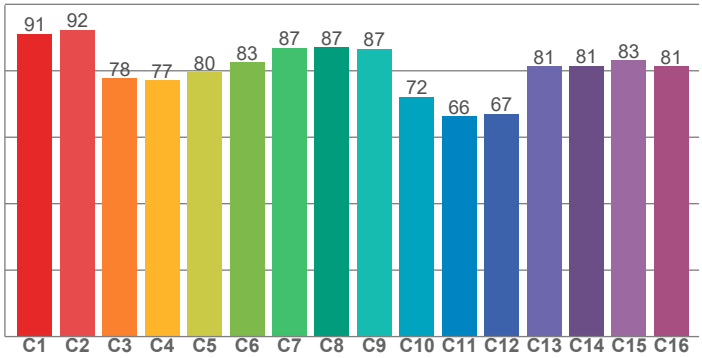


CIE 1931

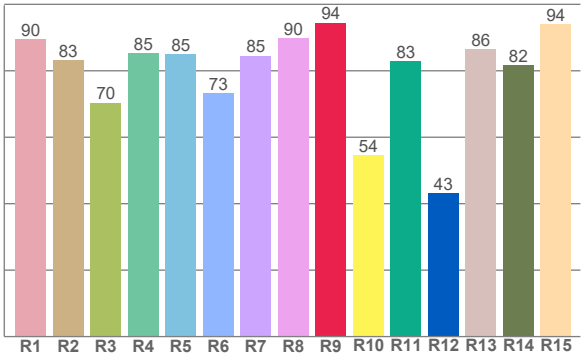


CIE 1931 ZOOM

TM30: 80,9



CRI: 82,6 (R1-R8)



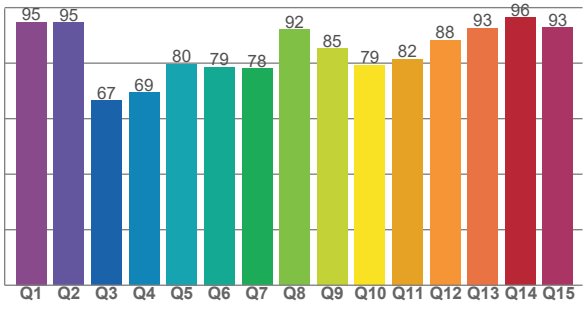
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89,5	83,1	70,4	85,3	84,9	73,2	84,5	89,7	94,5	54,5	83,0	43,1	86,4	81,8	93,9

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,1	92,3	77,8	77,1	79,6	82,5	86,9	87,0	86,7	72,2	66,3	67,1	81,4	81,4	83,2	81,4

CQS: 82,2



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,9	94,7	66,6	69,4	79,8	78,7	78,0	92,1	85,3	79,4	81,6	88,3	92,7	96,5	92,9

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3999 K	82,6	94,5	80,9	104,6	82,2	69	0,382	0,381	0,0016

TM30 DETAILS

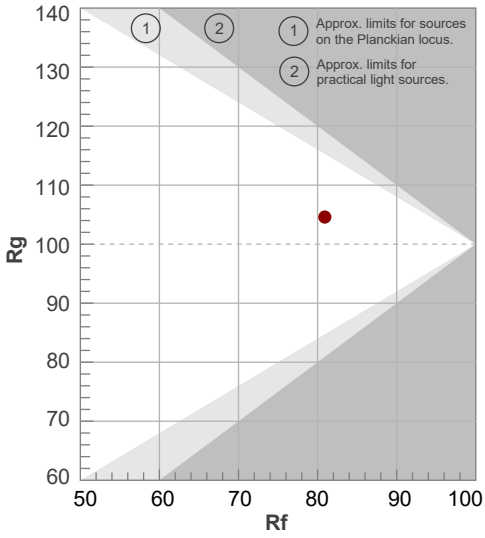
Rf 80,9

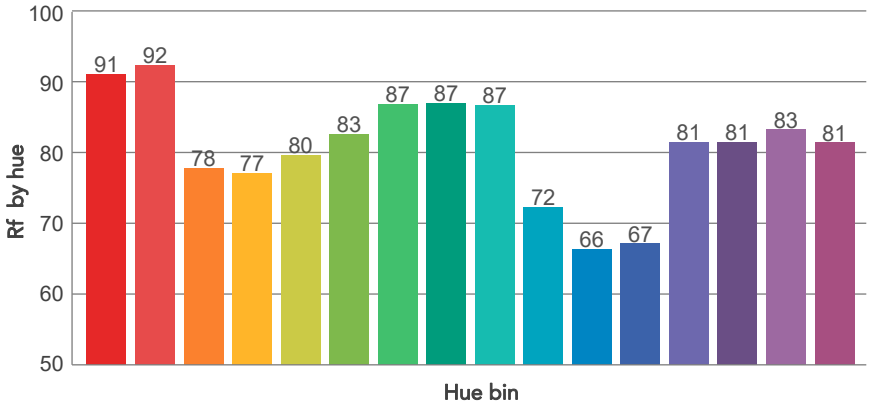
Fidelity index Rf

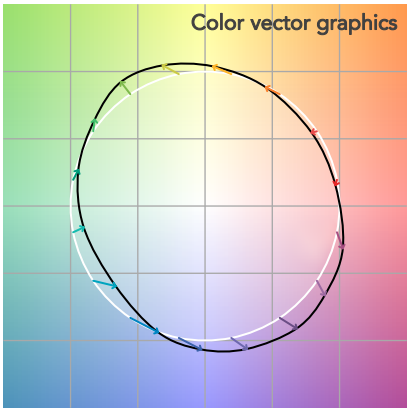
Rg 104,6

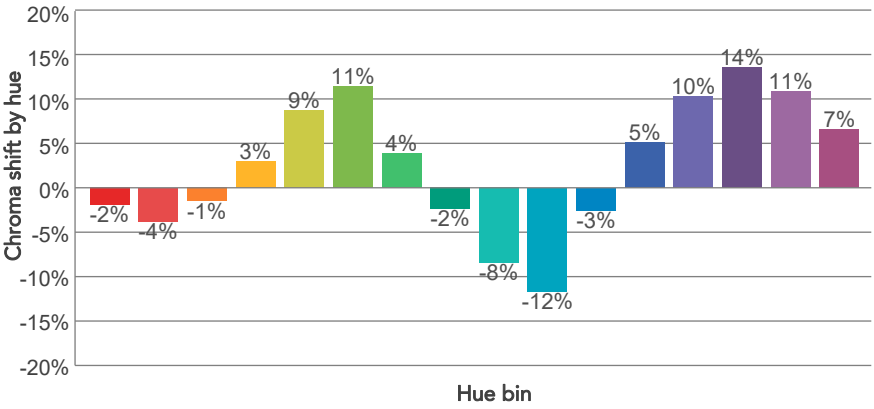
Gammut index

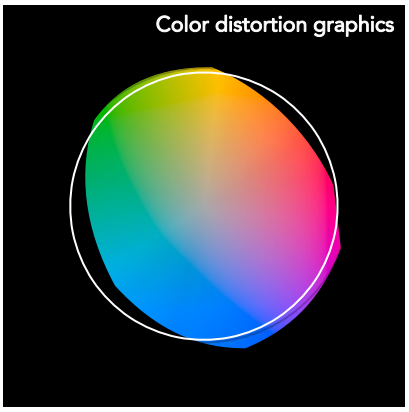
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	-2%	-4%
2	92	-4%	1%
3	78	-1%	11%
4	77	3%	14%
5	80	9%	10%
6	83	11%	1%
7	87	4%	-8%
8	87	-2%	-8%
9	87	-8%	-2%
10	72	-12%	13%
11	66	-3%	23%
12	67	5%	18%
13	81	10%	10%
14	81	14%	6%
15	83	11%	-6%
16	81	7%	-11%

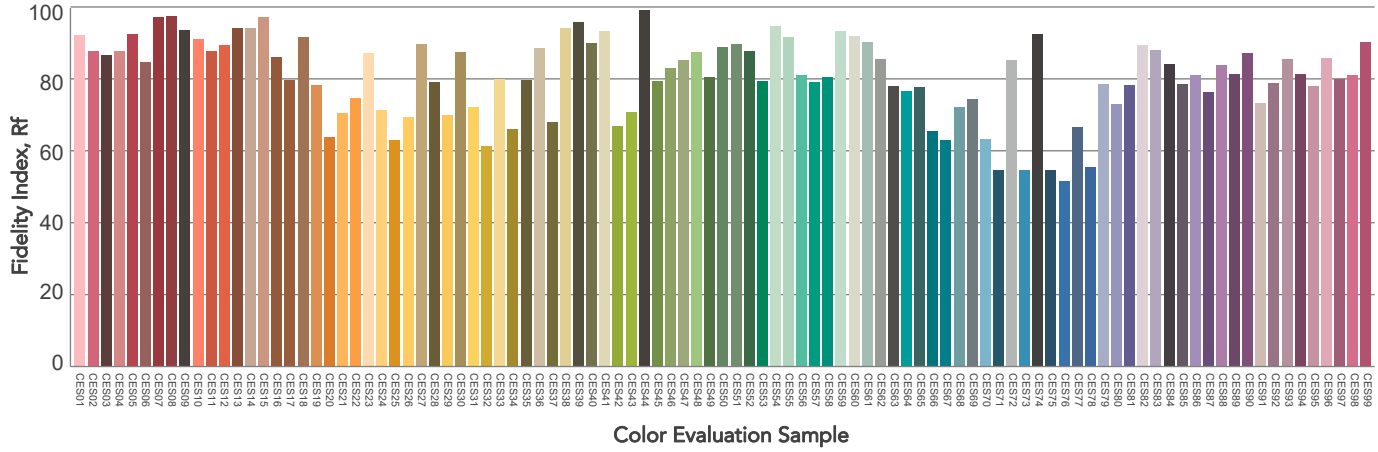












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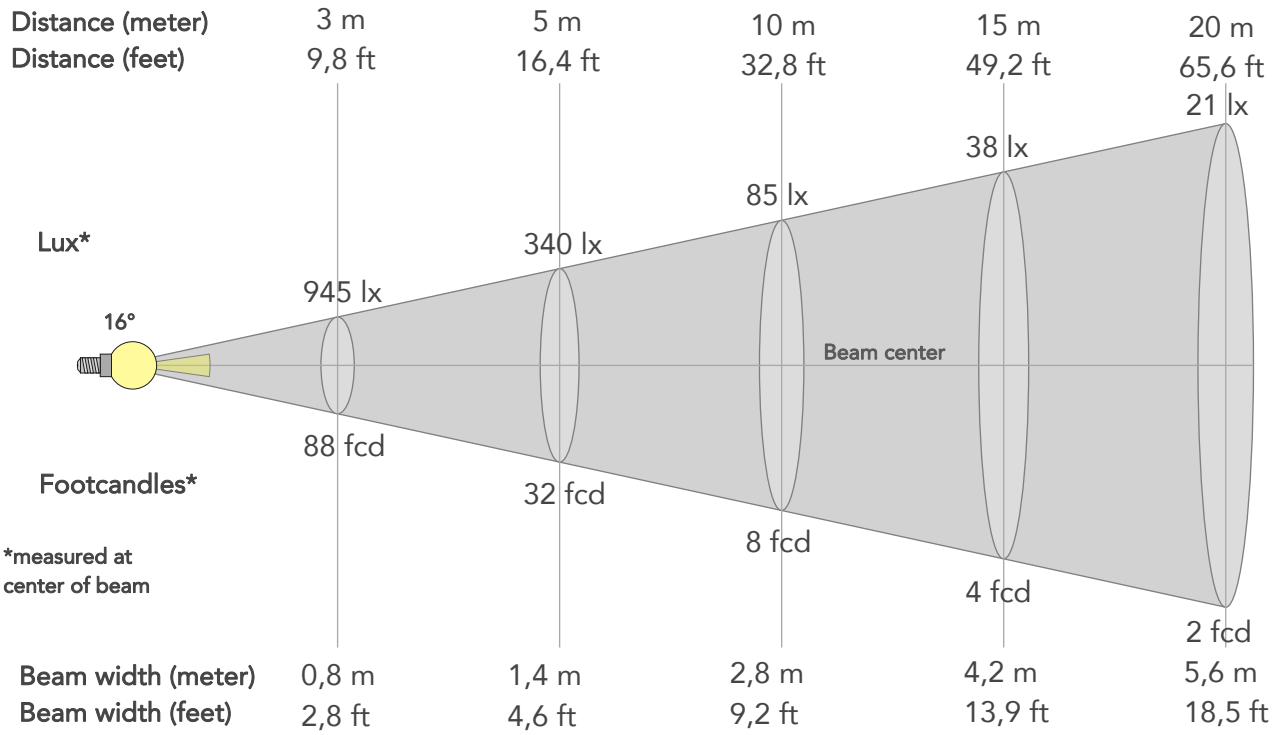
BEAM DETAILS

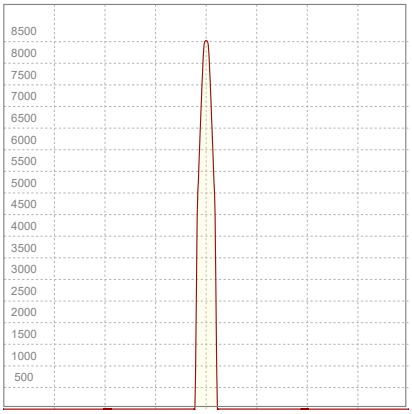
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16°	19°	19,7°	98,8%	98,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	8509lx	2127lx	945lx	532lx	340lx	151lx	85lx	38lx	21lx	14lx	9lx	5lx	3lx
Footcand.	791fcd	198fcd	88fcd	49fcd	32fcd	14fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,5m	11,3m	14,1m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,6ft	6,9ft	9,2ft	13,9ft	18,5ft	23,1ft	27,7ft	37ft	46,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,134A	25,7W	0,84	18lm/W

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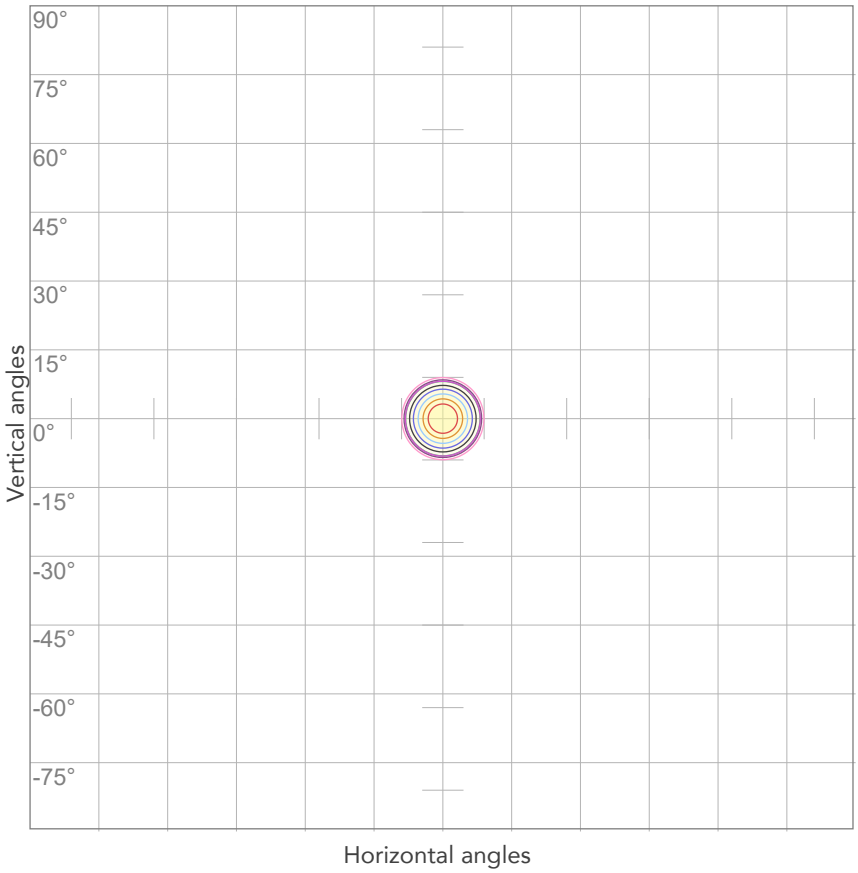
ISO DIAGRAMS

ISO CANDELA DIAGRAM



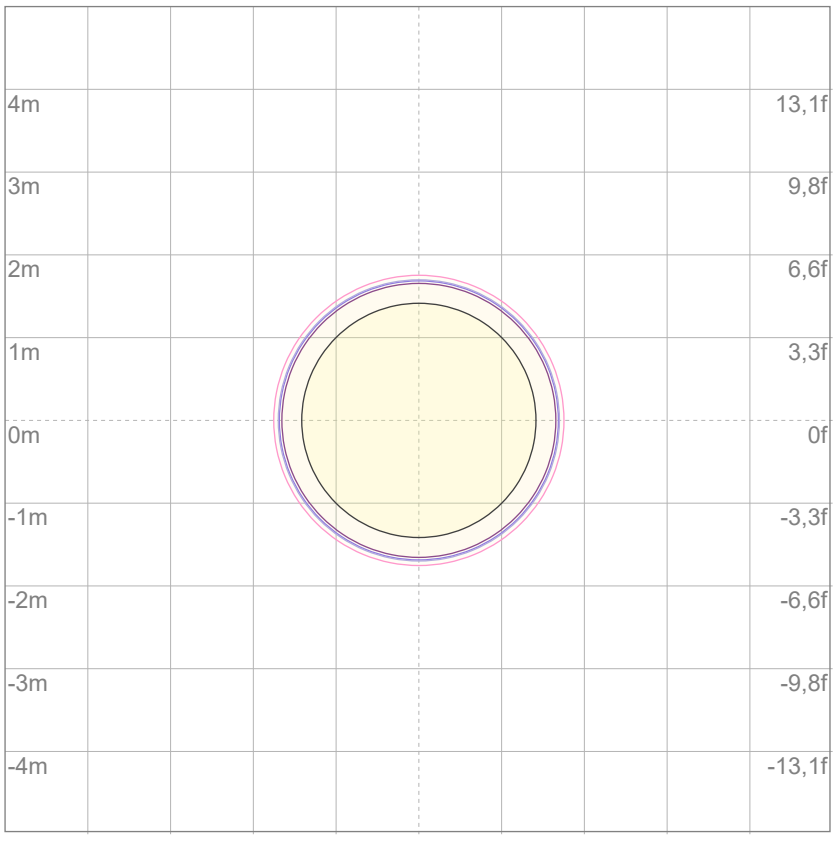
10%	851 cd
20%	1702 cd
30%	2553 cd
40%	3404 cd
50%	4255 cd
60%	5106 cd
70%	5957 cd
80%	6808 cd

Conditions:

Number of c-planes: 2

Candela at center: 8509 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,55 lx
5%	4,25 lx
10%	8,51 lx
30%	25,5 lx
50%	42,5 lx

Conditions:

Number of c-planes: 2

Lux at center: 85,1 lx

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

Total lumen output:

492 lm

Peak candela output:

9119 cd

Light quality:

CRI: 82,8

Color temperature:

5658 K

PRODUCT NAME:

ECLDISPLAYXBFC

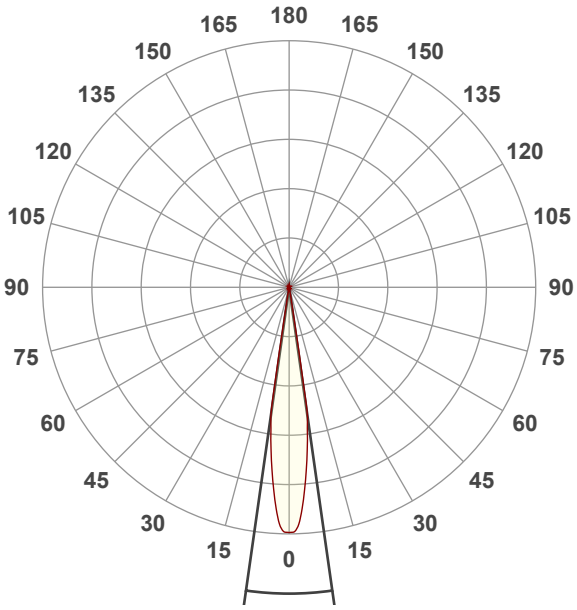
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
5600K

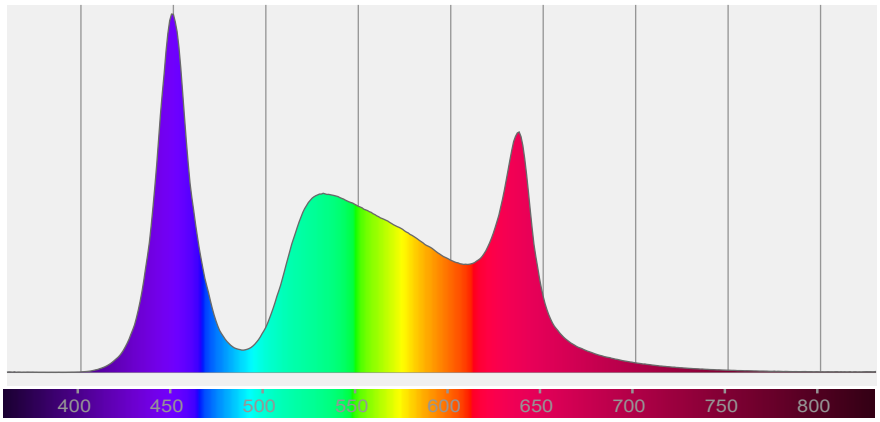
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 14:54:49



Beam angle 50%: 16,2°
Field angle 10%: 18,5°
Cut off angle 2.5%: 19,9°

Spectra



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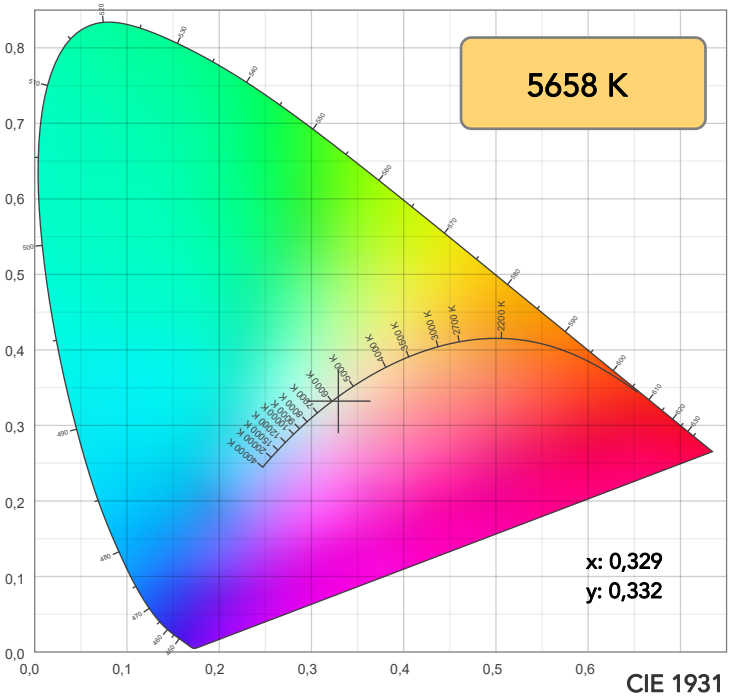
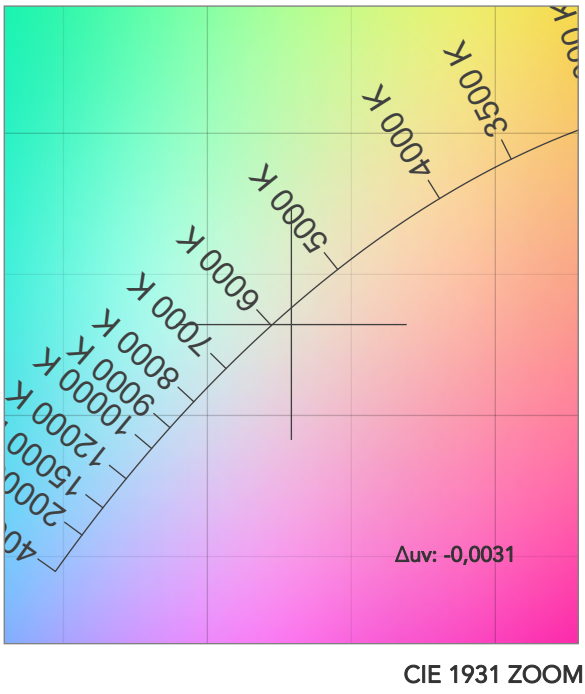
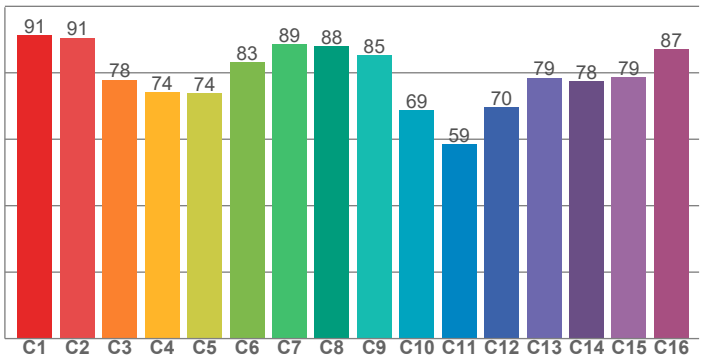
COLOR DETAILS

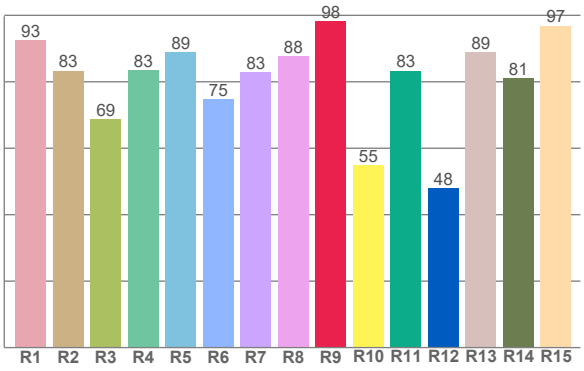




TM30: 79,2



CRI: 82,8 (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
92,5	83,3	68,7	83,4	88,9	74,7	82,9	87,8	98,3	54,8	83,4	47,9	88,9	81,1	96,9

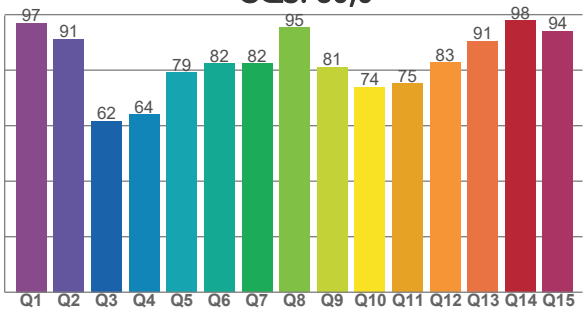
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,3	90,5	77,9	74,1	73,9	83,2	88,5	88,0	85,3	68,7	58,5	69,6	78,5	77,5	78,7	87,1

CQS Q values

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

CQS: 80,0



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5658 K	82,8	98,3	79,2	105,5	80,0	73	0,329	0,332	-0,0031

TM30 DETAILS

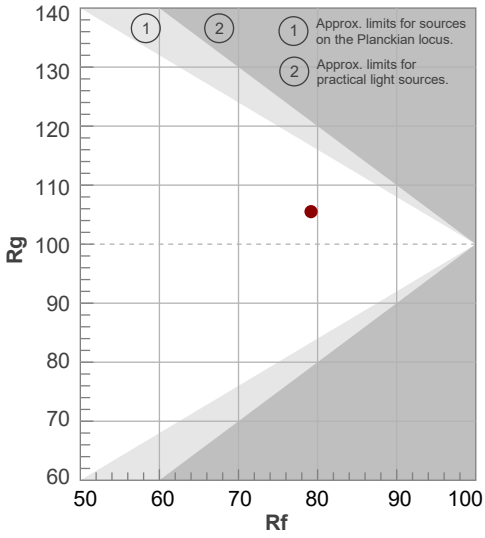
Rf 79,2

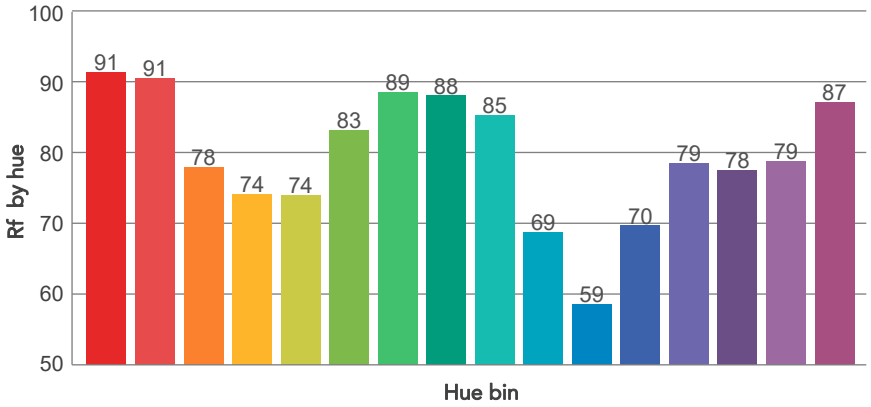
Fidelity index Rf

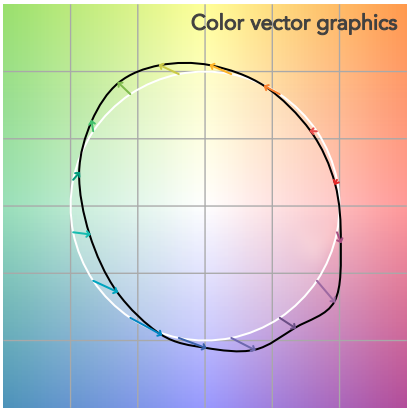
Rg 105,5

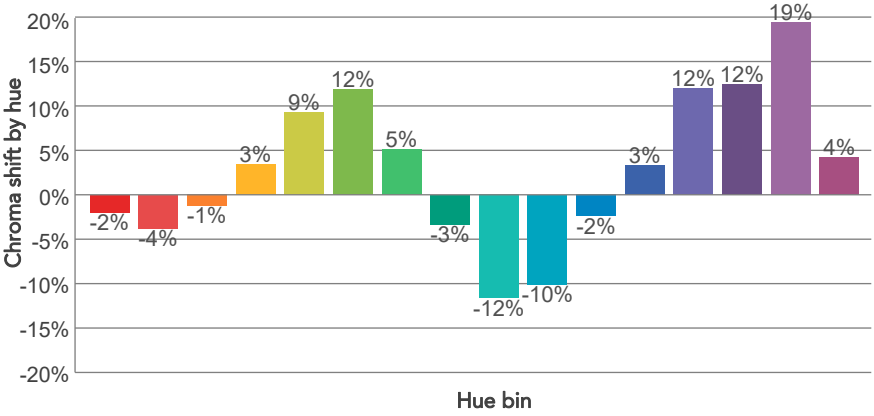
Gammut index

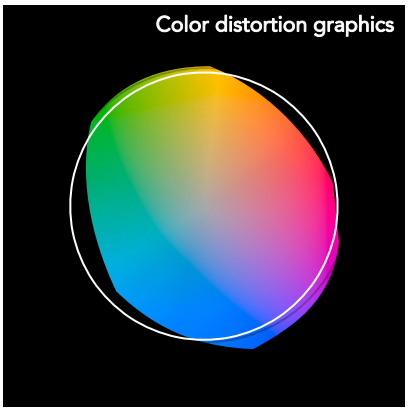
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	91	-2%	-3%
2	91	-4%	3%
3	78	-1%	12%
4	74	3%	16%
5	74	9%	13%
6	83	12%	3%
7	89	5%	-6%
8	88	-3%	-6%
9	85	-12%	4%
10	69	-10%	17%
11	59	-2%	26%
12	70	3%	21%
13	79	12%	15%
14	78	12%	5%
15	79	19%	-6%
16	87	4%	-6%

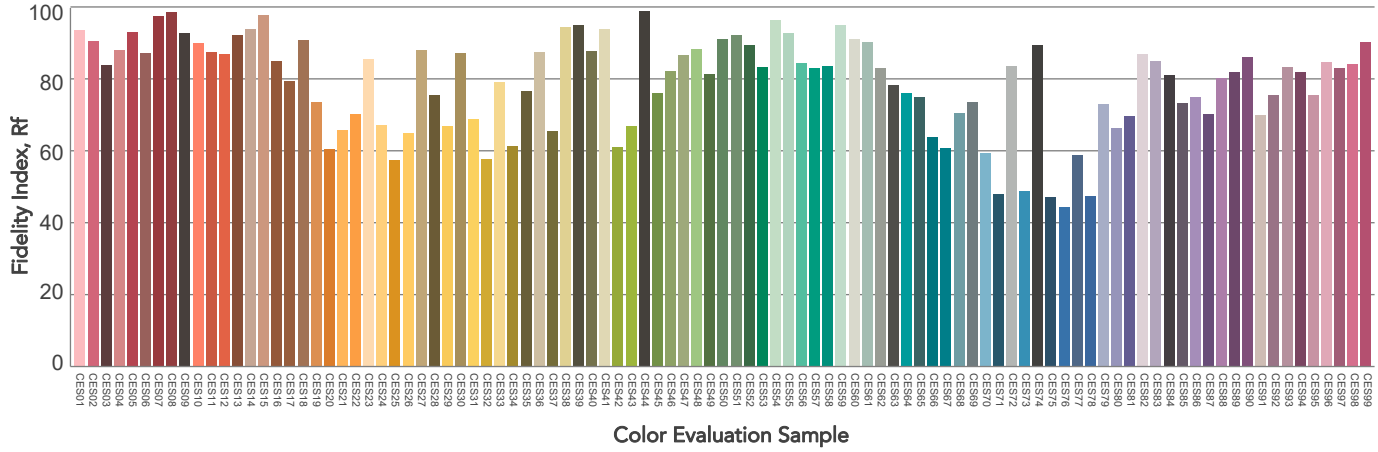












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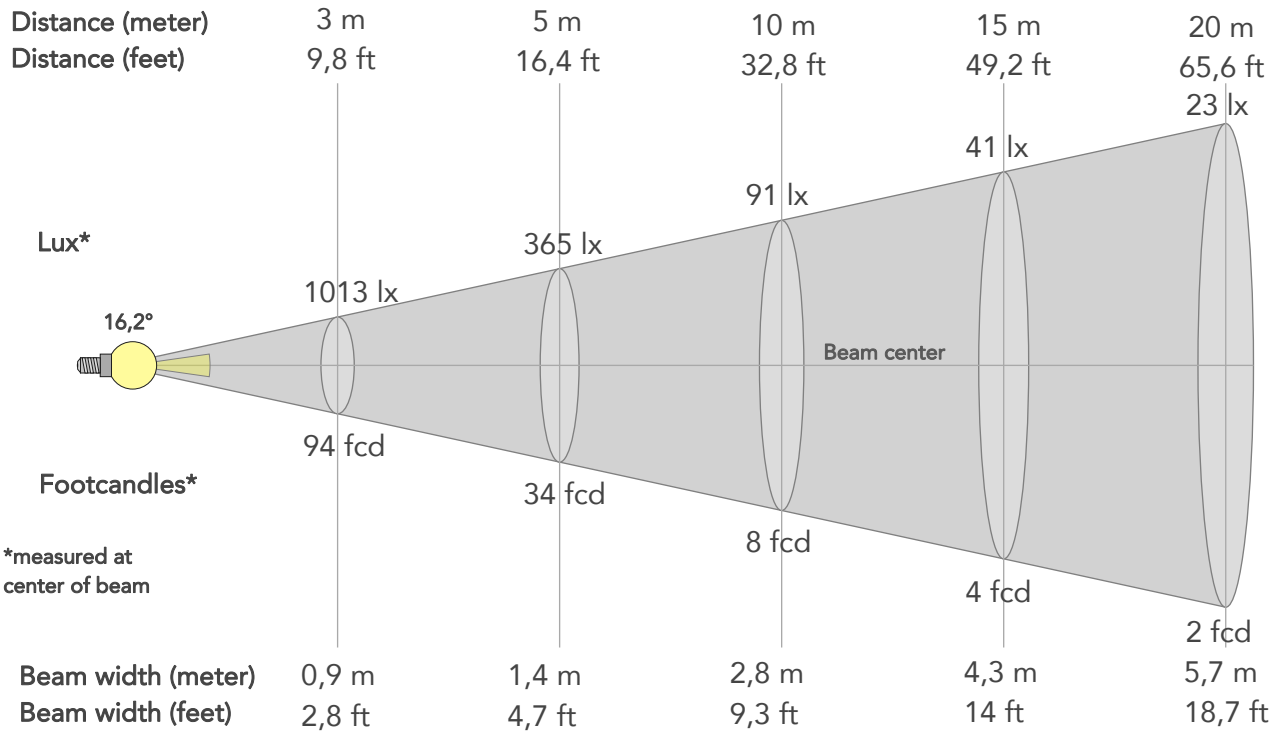
BEAM DETAILS

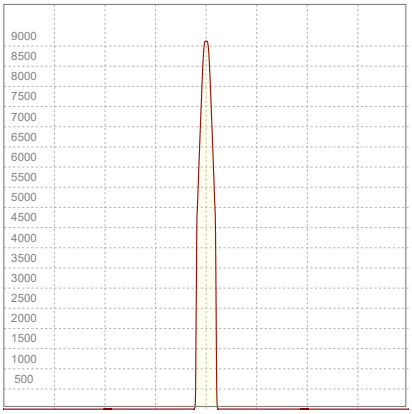
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16,2°	18,5°	19,9°	98,9%	98,6%



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	9119lx	2280lx	1013lx	570lx	365lx	162lx	91lx	41lx	23lx	15lx	10lx	6lx	4lx
Footcand.	847fcd	212fcd	94fcd	53fcd	34fcd	15fcd	8fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,9m	1,1m	1,4m	2,1m	2,8m	4,3m	5,7m	7,1m	8,5m	11,4m	14,2m
Beam wid.	0,9ft	1,9ft	2,8ft	3,7ft	4,7ft	7ft	9,3ft	14ft	18,7ft	23,3ft	28ft	37,3ft	46,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,144A	28,4W	0,86	17lm/W

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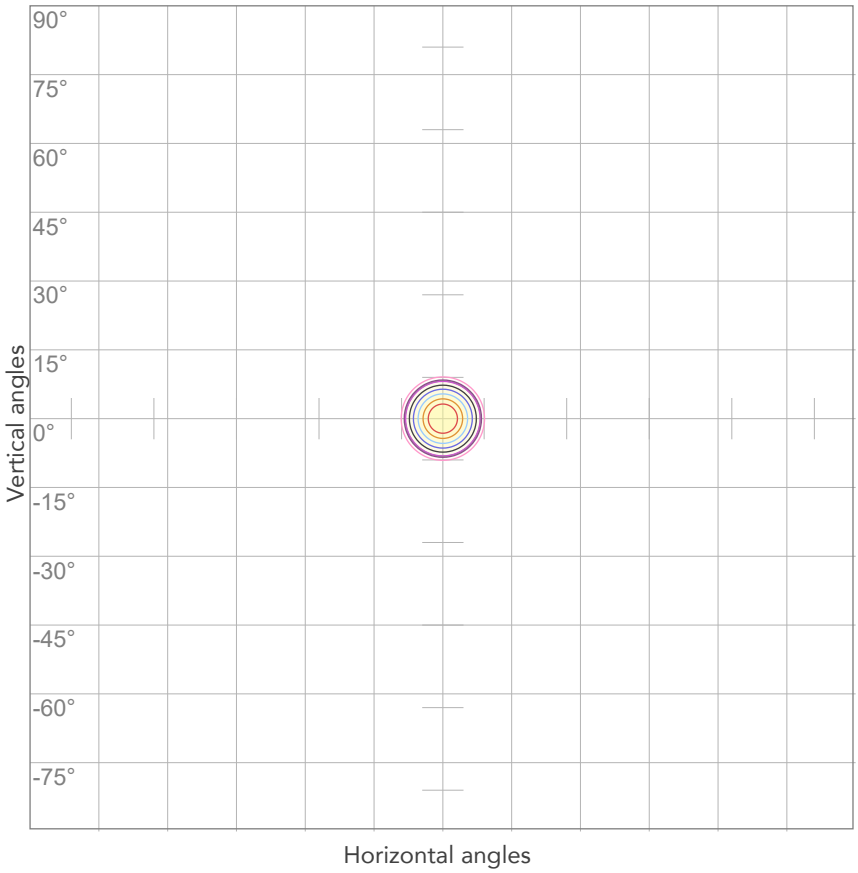
ISO DIAGRAMS

ISO CANDELA DIAGRAM



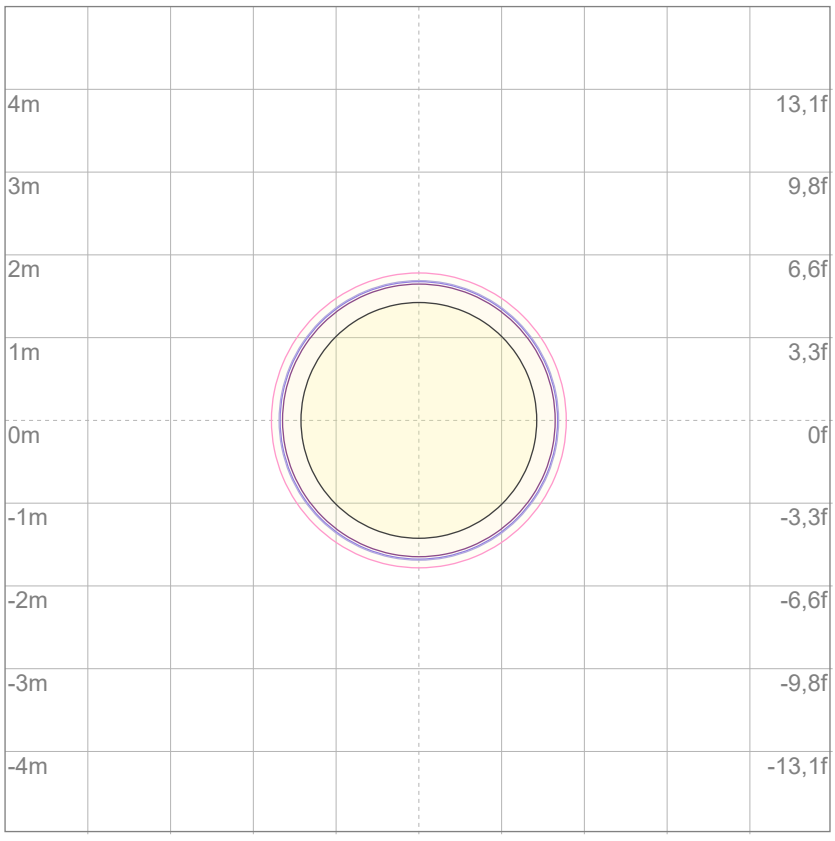
10%	912 cd
20%	1824 cd
30%	2736 cd
40%	3648 cd
50%	4560 cd
60%	5471 cd
70%	6383 cd
80%	7295 cd

Conditions:

Number of c-planes: 2

Candela at center: 9119 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,74 lx
5%	4,56 lx
10%	9,12 lx
30%	27,4 lx
50%	45,6 lx

Conditions:

Number of c-planes: 2

Lux at center: 91,2 lx

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

Total lumen output:

506 lm

Peak candela output:

9248 cd

Light quality:

CRI: 82,8

Color temperature:

6045 K

PRODUCT NAME:

ECLDISPLAYXBFC

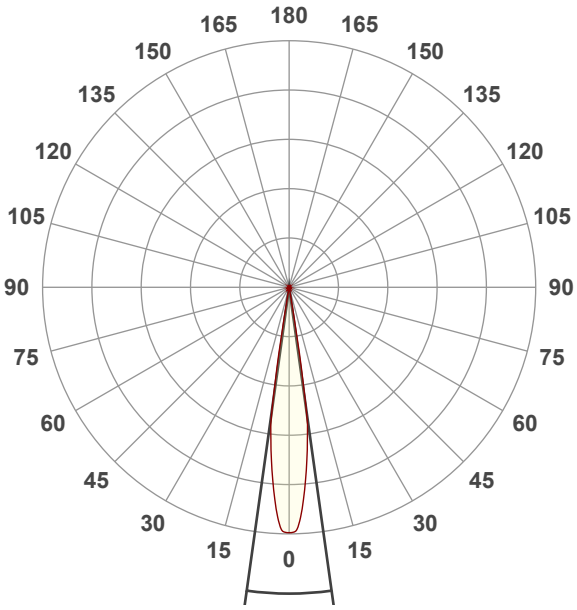
MEASURAMENT CONDITIONS:

Beam angle:
Profile 18° HD

Target:
6000K

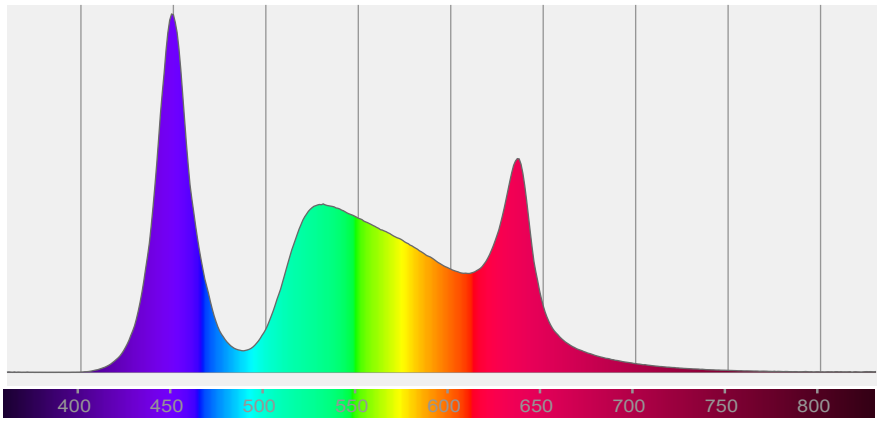
Operator:
Giuseppe della Peruta

Date and time:
24/07/2025 14:44:52

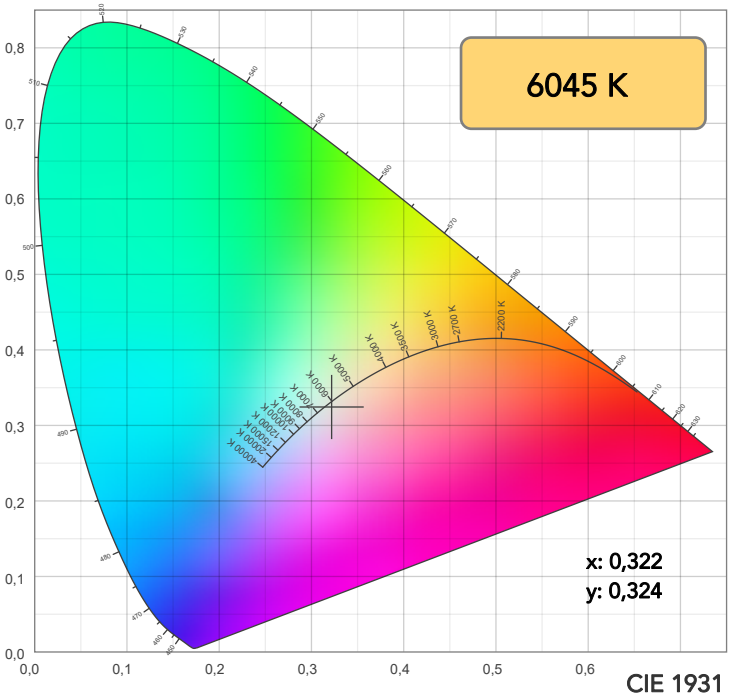


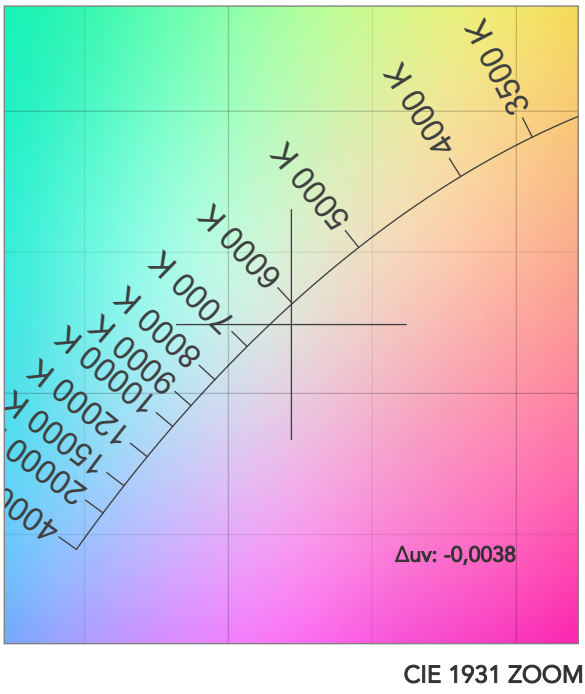
Beam angle 50%: 15,9°
Field angle 10%: 19,1°
Cut off angle 2.5%: 19,7°

Spectra

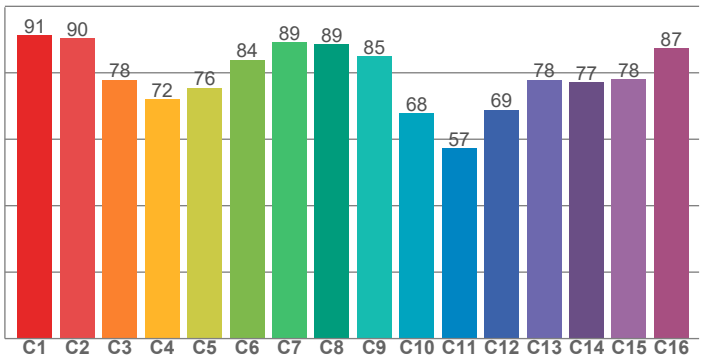


COLOR DETAILS

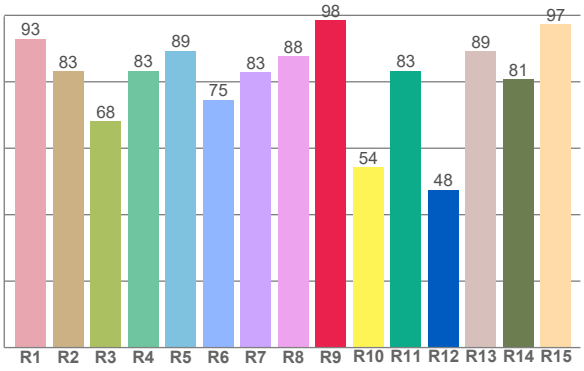




TM30: 79,0



CRI: 82,8 (R1-R8)



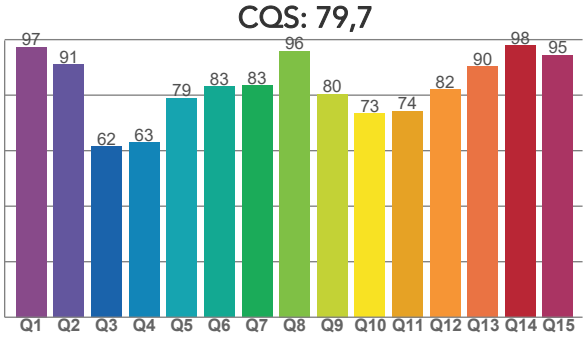
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,0	83,2	68,1	83,3	89,3	74,6	82,8	87,7	98,5	54,4	83,3	47,5	89,2	80,8	97,4

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	90,3	77,9	72,0	75,5	83,9	89,2	88,6	85,0	67,9	57,3	68,9	77,8	77,1	78,0	87,4

CQS: 79,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,4	91,0	61,6	63,0	78,9	83,2	83,4	96,0	80,5	73,3	74,4	82,1	90,2	98,0	94,5

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
6045 K	82,8	98,5	79,0	105,4	79,7	73	0,322	0,324	-0,0038

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TM30 DETAILS

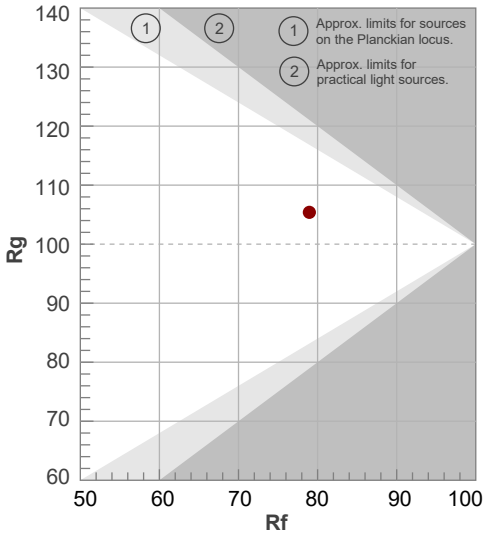
Rf 79,0

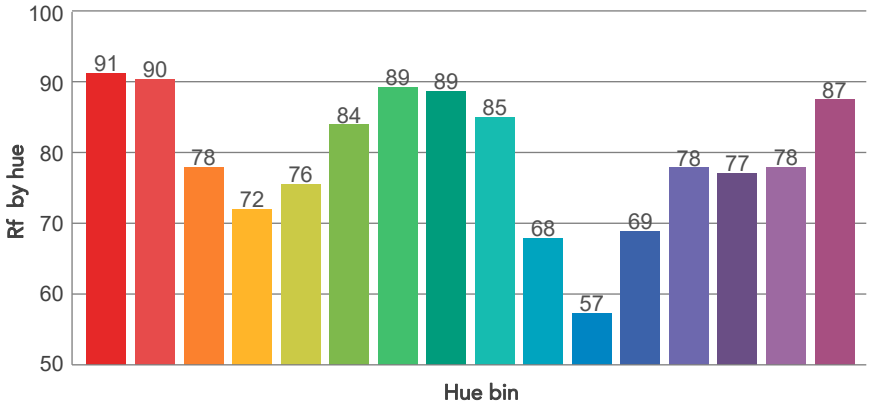
Fidelity index Rf

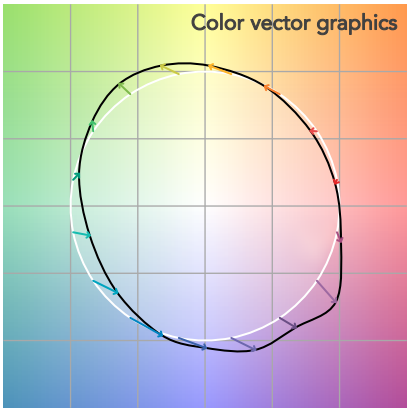
Rg 105,4

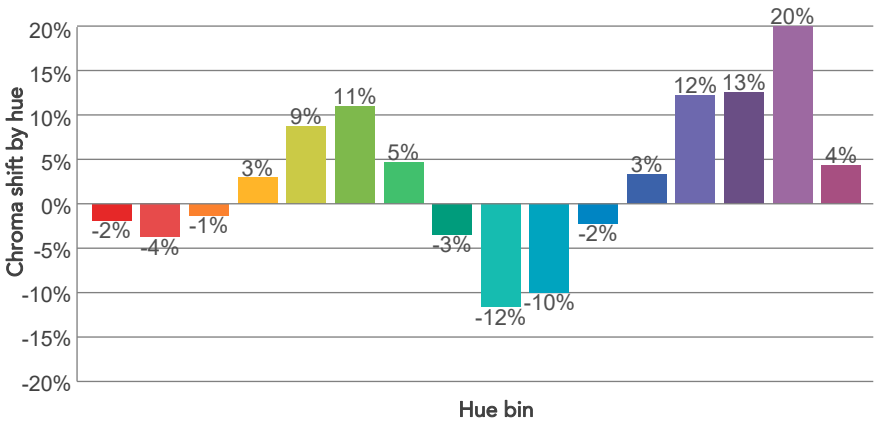
Gammut index

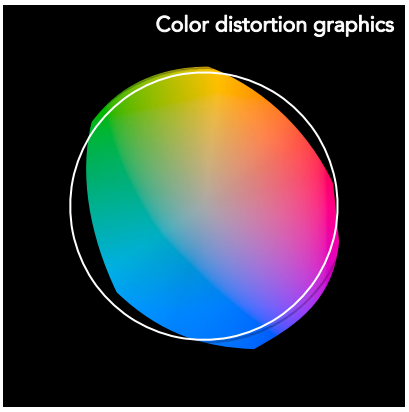
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	91	-2%	-2%
2	90	-4%	3%
3	78	-1%	12%
4	72	3%	17%
5	76	9%	12%
6	84	11%	2%
7	89	5%	-6%
8	89	-3%	-5%
9	85	-12%	5%
10	68	-10%	17%
11	57	-2%	27%
12	69	3%	21%
13	78	12%	16%
14	77	13%	6%
15	78	20%	-5%
16	87	4%	-6%

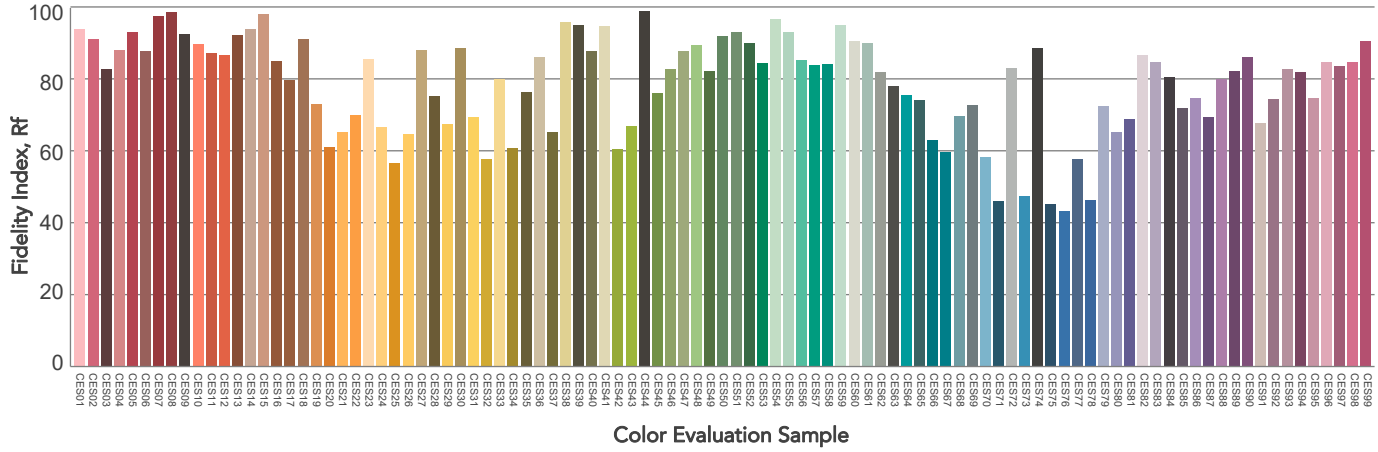












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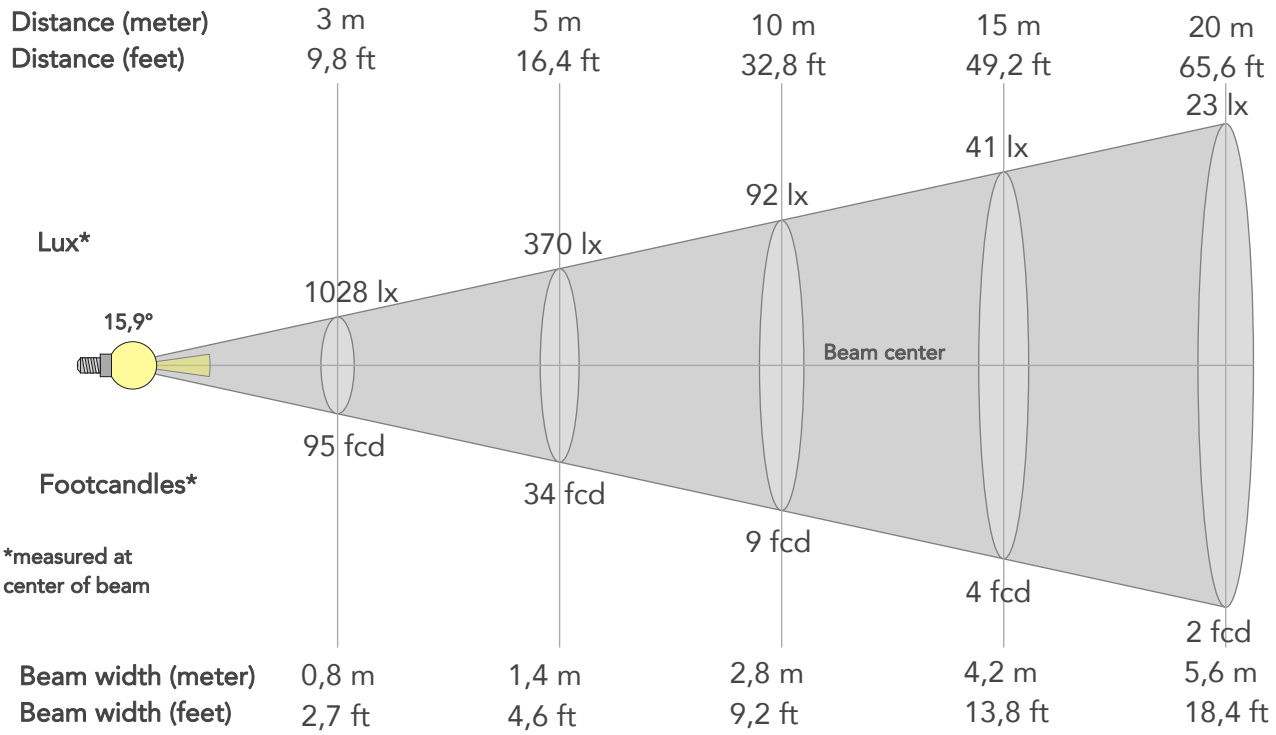
BEAM DETAILS

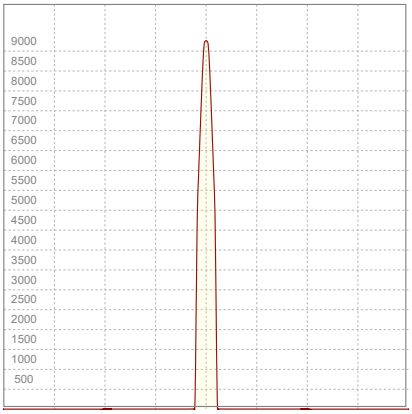
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15,9°	19,1°	19,7°	98,6%	98,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	9248lx	2312lx	1028lx	578lx	370lx	164lx	92lx	41lx	23lx	15lx	10lx	6lx	4lx
Footcand.	859fcd	215fcd	95fcd	54fcd	34fcd	15fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	0,3m	0,6m	0,8m	1,1m	1,4m	2,1m	2,8m	4,2m	5,6m	7m	8,4m	11,2m	14m
Beam wid.	0,9ft	1,8ft	2,7ft	3,7ft	4,6ft	6,9ft	9,2ft	13,8ft	18,4ft	22,9ft	27,5ft	36,7ft	45,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,145A	28,8W	0,87	18lm/W

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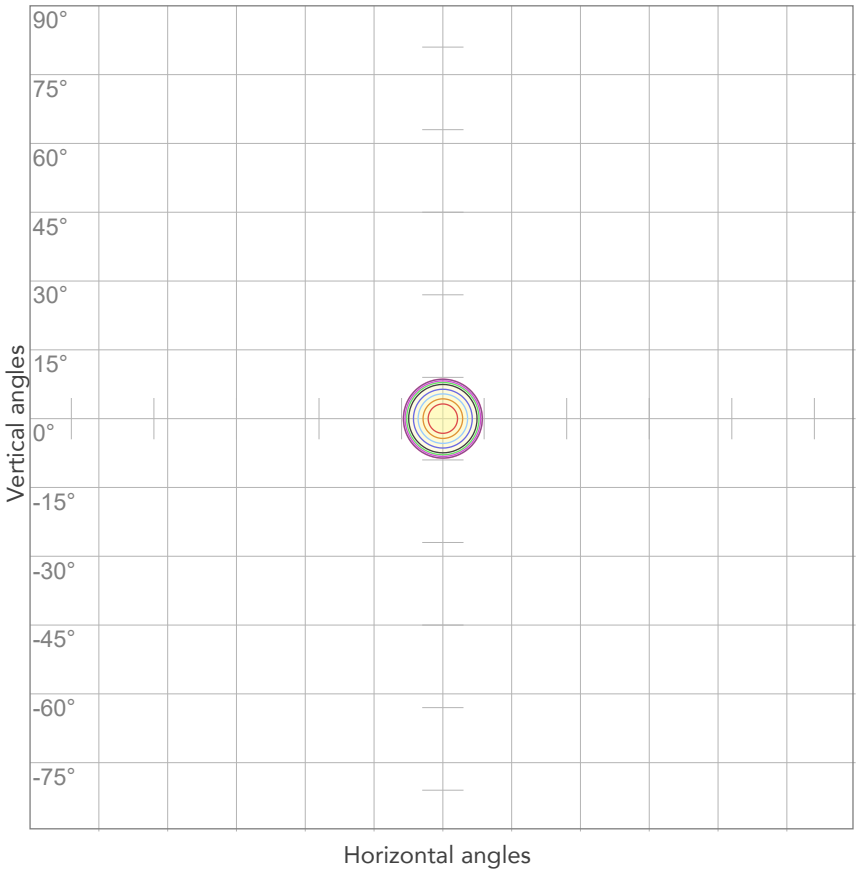
ISO DIAGRAMS

ISO CANDELA DIAGRAM



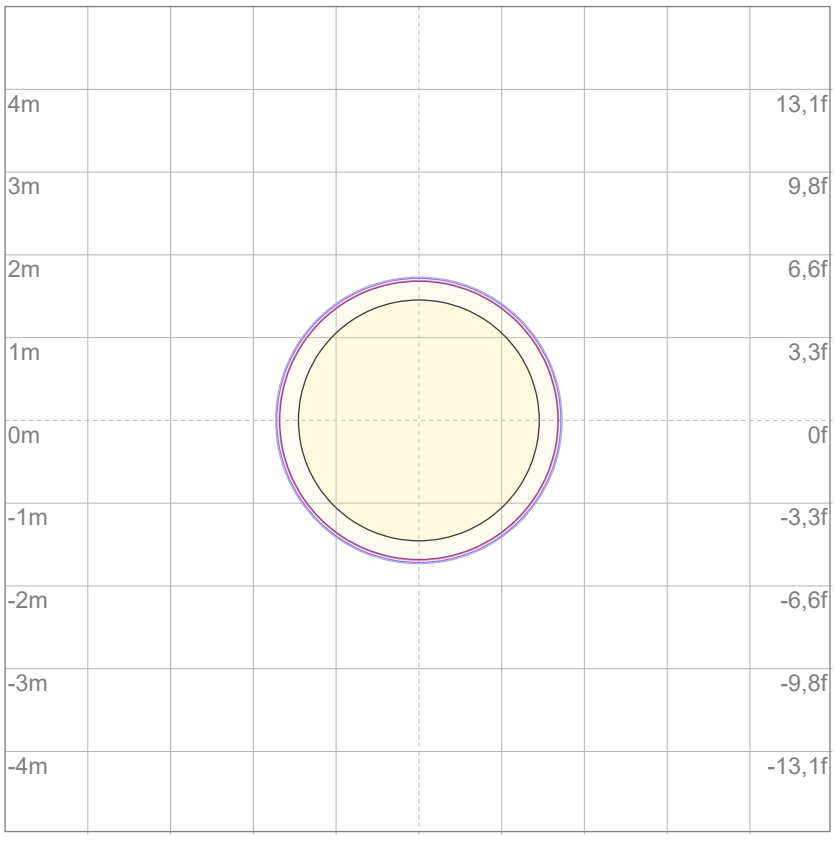
10%	925 cd
20%	1850 cd
30%	2774 cd
40%	3699 cd
50%	4624 cd
60%	5549 cd
70%	6474 cd
80%	7399 cd

Conditions:

Number of c-planes: 2

Candela at center: 9248 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,77 lx
5%	4,62 lx
10%	9,25 lx
30%	27,7 lx
50%	46,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 92,5 lx

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