

Photometric Test Report



EclExpoFlood 150IPFC

IP65 150W Full Colour RGB+WarmWhite
asymmetric LED floodlight
(High Brightness)

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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:

5354 lm

Peak candela output:

3808 cd

Light quality:

CRI: 92,0

Color temperature:

5474 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

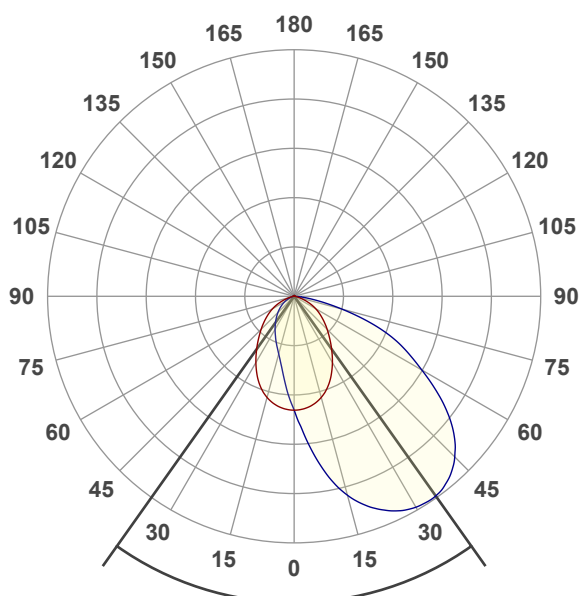
Full On HB

Operator:

Giuseppe della Peruta

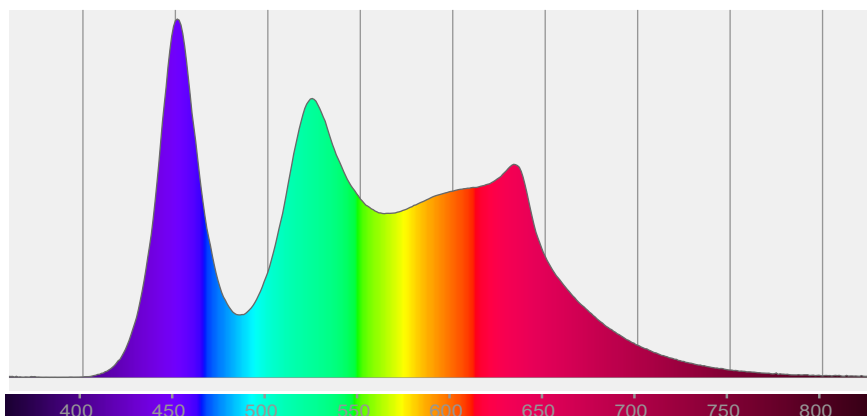
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22/09/2025 15:37:22

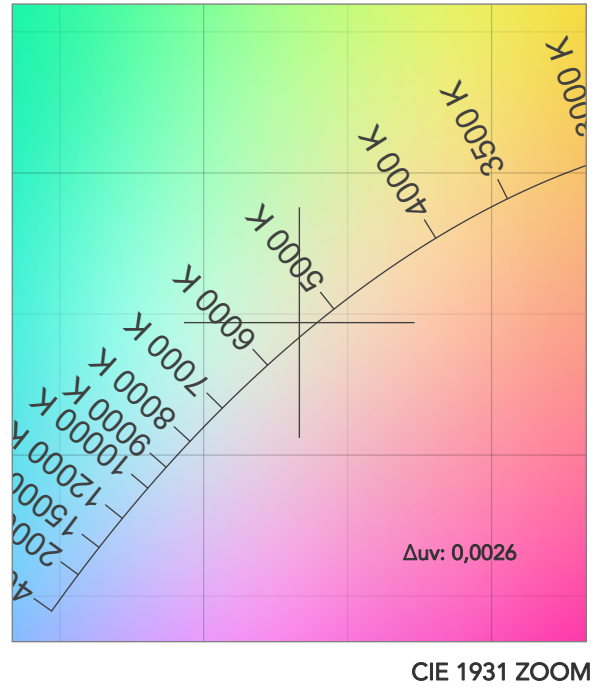
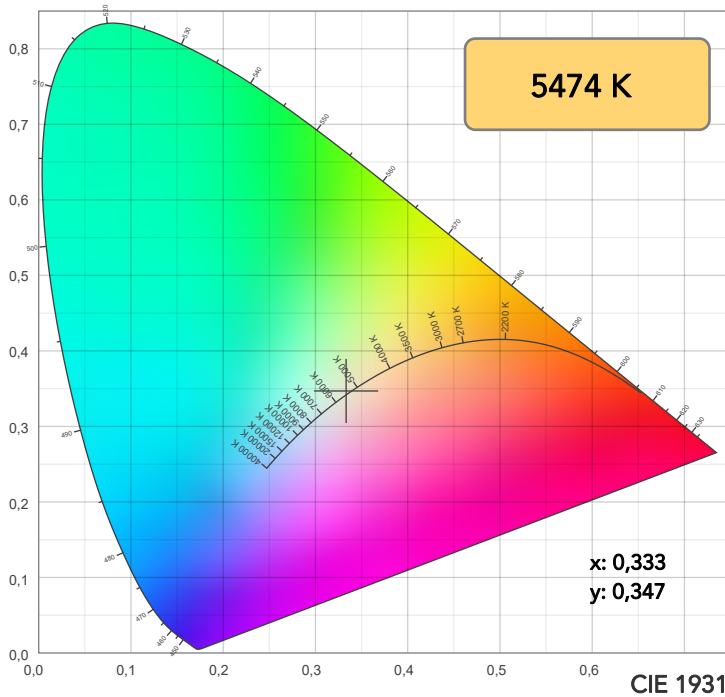


	Blue curve V	Red curve H
Beam angle 50%:	63°	78,4°
Field angle 10%:	122,6°	139,4°
Cut off angle 2.5%:	151,8°	157,3°

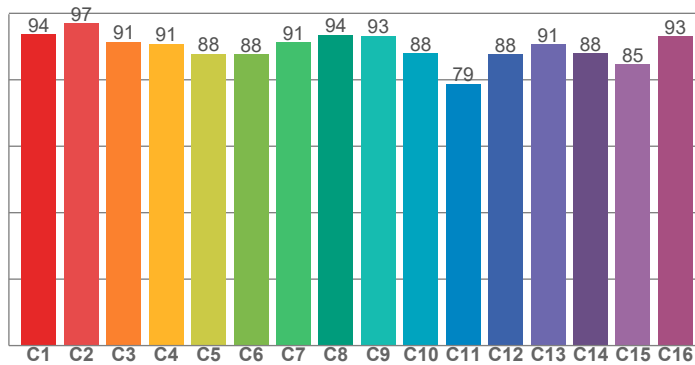
Spectra



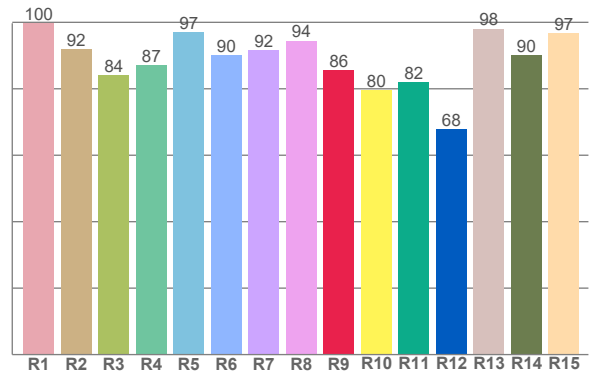
COLOR DETAILS



TM30: 89,6



CRI: 92,0 (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
99,7	92,0	84,1	87,2	97,0	90,1	91,6	94,5	85,7	79,6	82,1	67,8	98,1	90,2	96,8

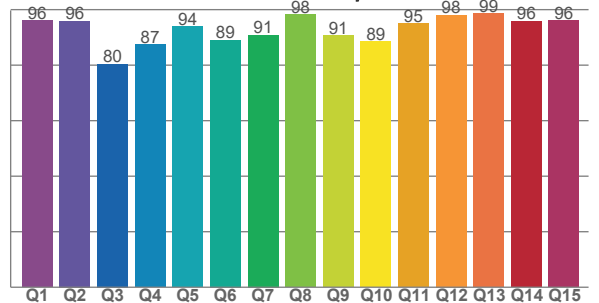
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	97,0	91,5	90,8	87,9	87,6	91,3	93,5	93,3	87,9	78,8	87,6	90,7	88,0	84,6	93,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,0	95,8	80,4	87,4	93,9	89,0	90,9	98,3	90,7	88,5	94,9	98,0	98,6	95,8	96,0

CQS: 91,4



COLOR PARAMETERS

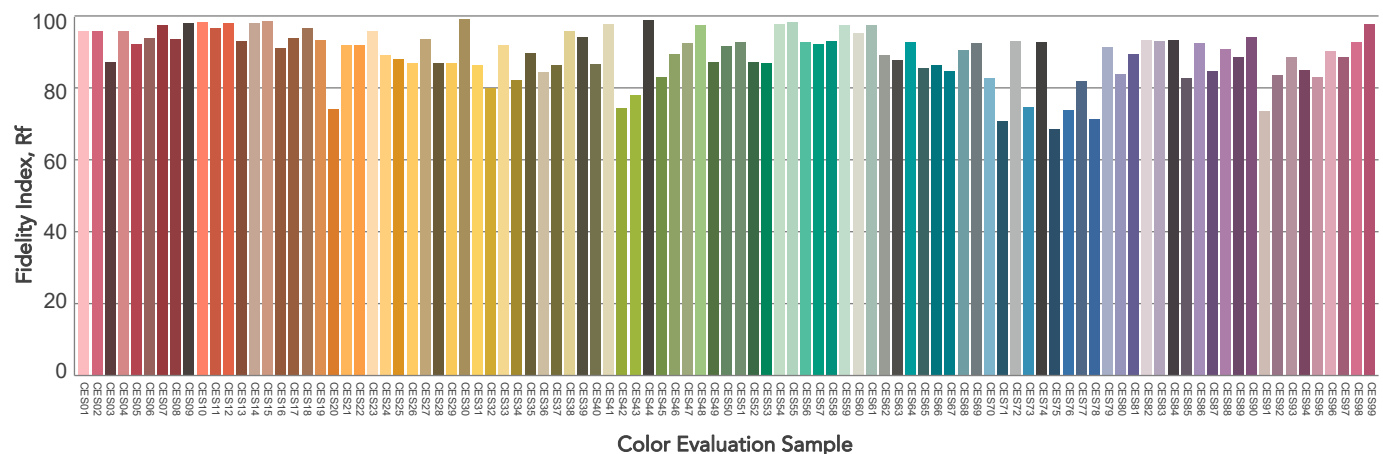
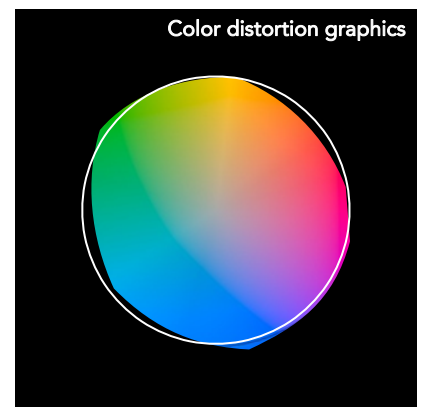
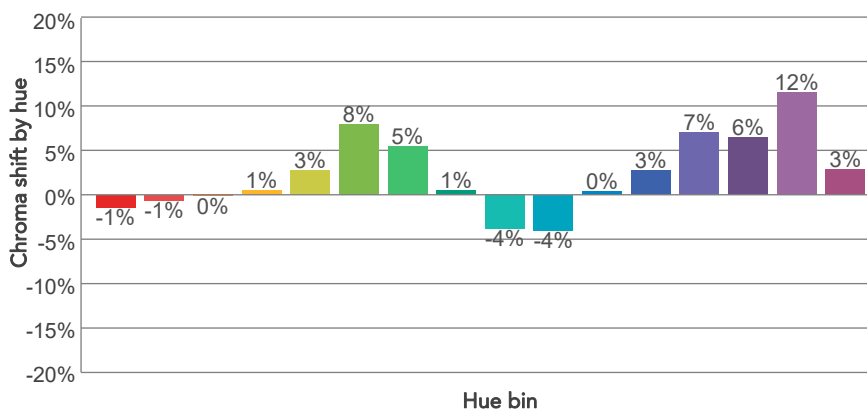
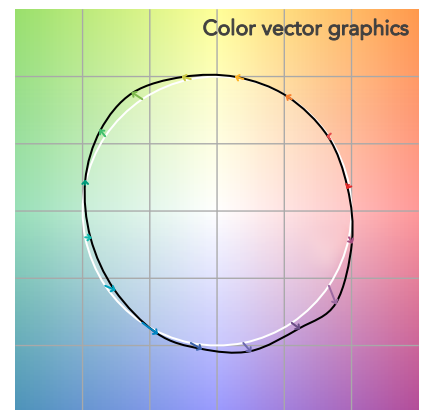
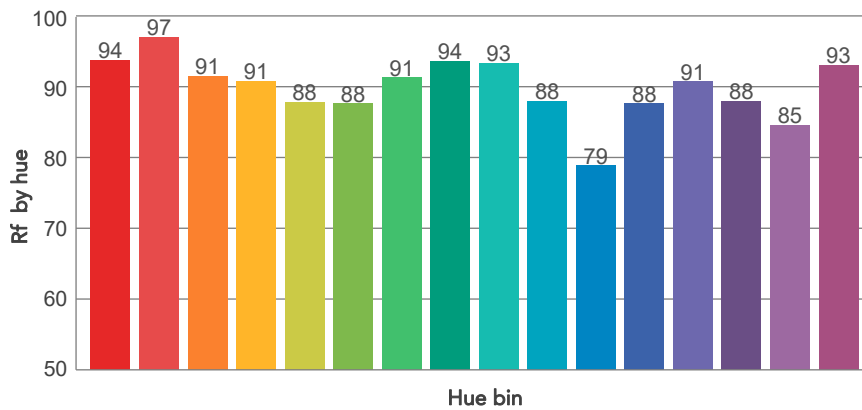
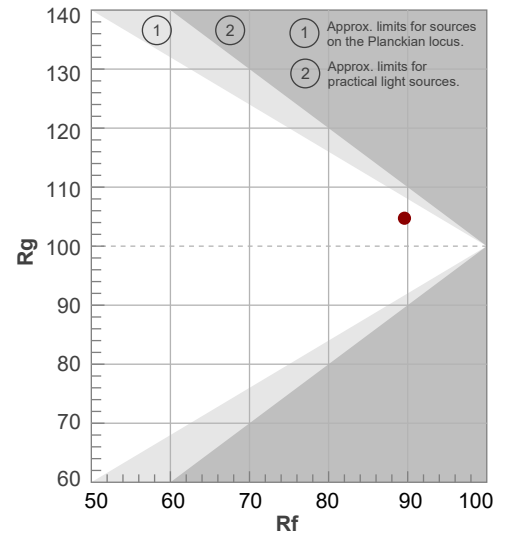
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5474 K	92,0	85,7	89,6	104,7	91,4	89	0,333	0,347	0,0026

TM30 DETAILS

Rf 89,6
Fidelity index Rf

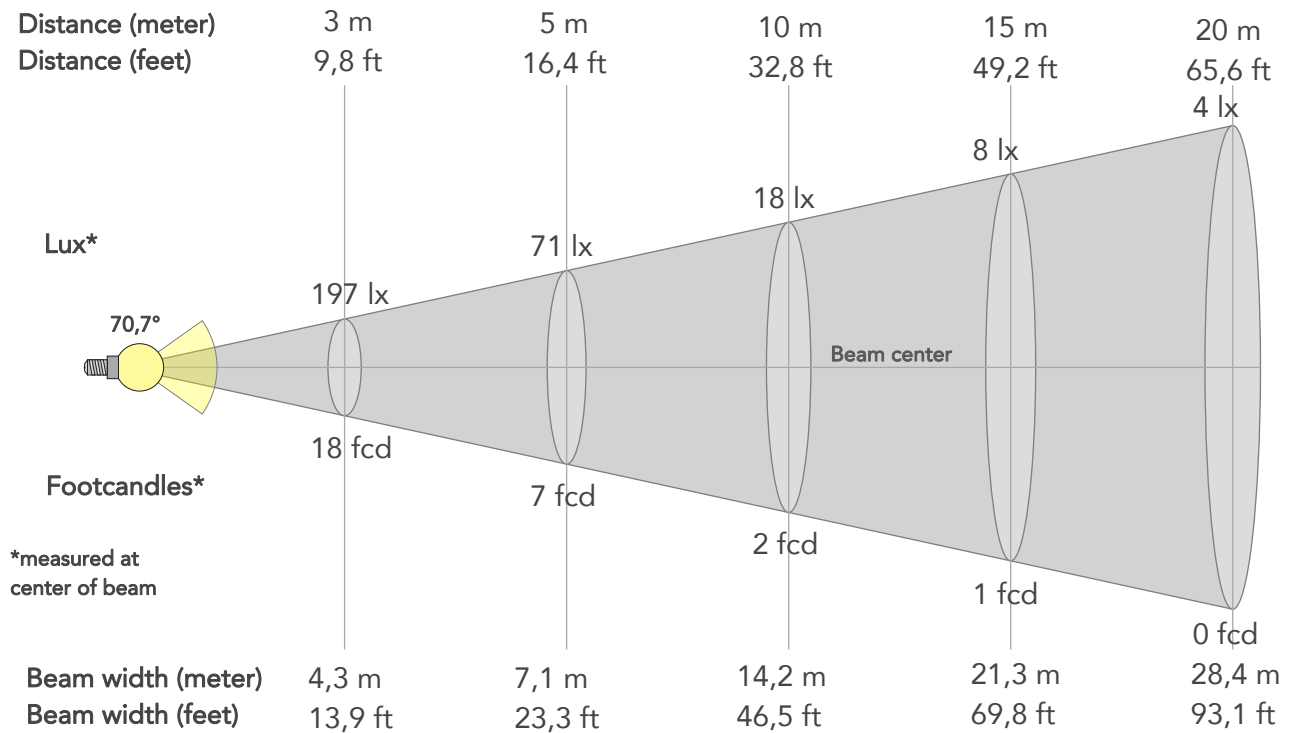
Rg 104,7
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-2%
2	97	-1%	1%
3	91	0%	4%
4	91	1%	6%
5	88	3%	5%
6	88	8%	3%
7	91	5%	-2%
8	94	1%	-3%
9	93	-4%	1%
10	88	-4%	6%
11	79	0%	13%
12	88	3%	8%
13	91	7%	4%
14	88	6%	2%
15	85	12%	-8%
16	93	3%	-3%



BEAM DETAILS

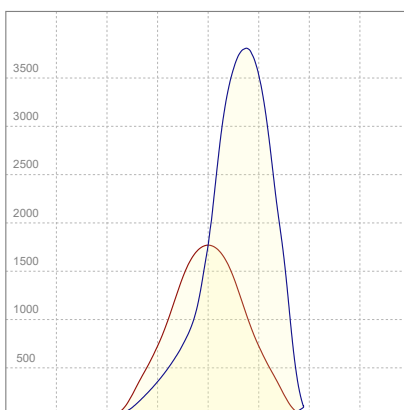
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,7°	131°	154,6°	82,6%	56,4%



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	1769lx	442lx	197lx	111lx	71lx	31lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	164fcd	41fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,3m	5,7m	7,1m	10,6m	14,2m	21,3m	28,4m	35,5m	42,6m	56,7m	70,9m
Beam wid.	4,7ft	9,4ft	13,9ft	18,6ft	23,3ft	34,9ft	46,5ft	69,8ft	93,1ft	116,3ft	139,6ft	186,1ft	232,7ft

LINEAR DISTRIBUTION DIAGRAM

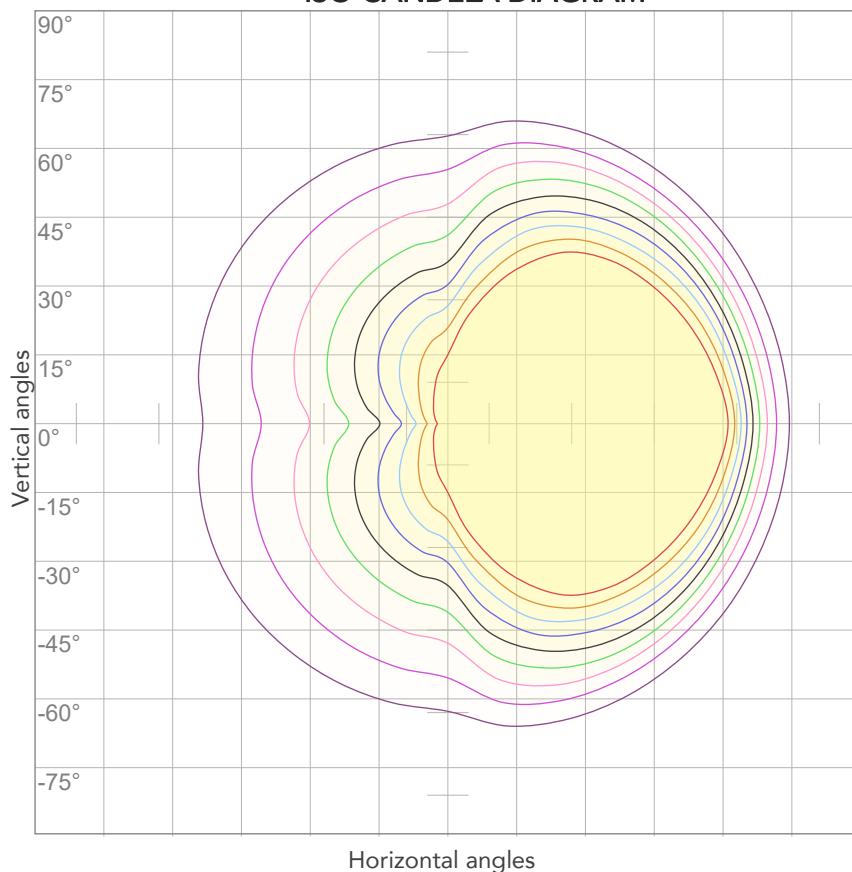


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,550A	122,7W	0,98	44lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



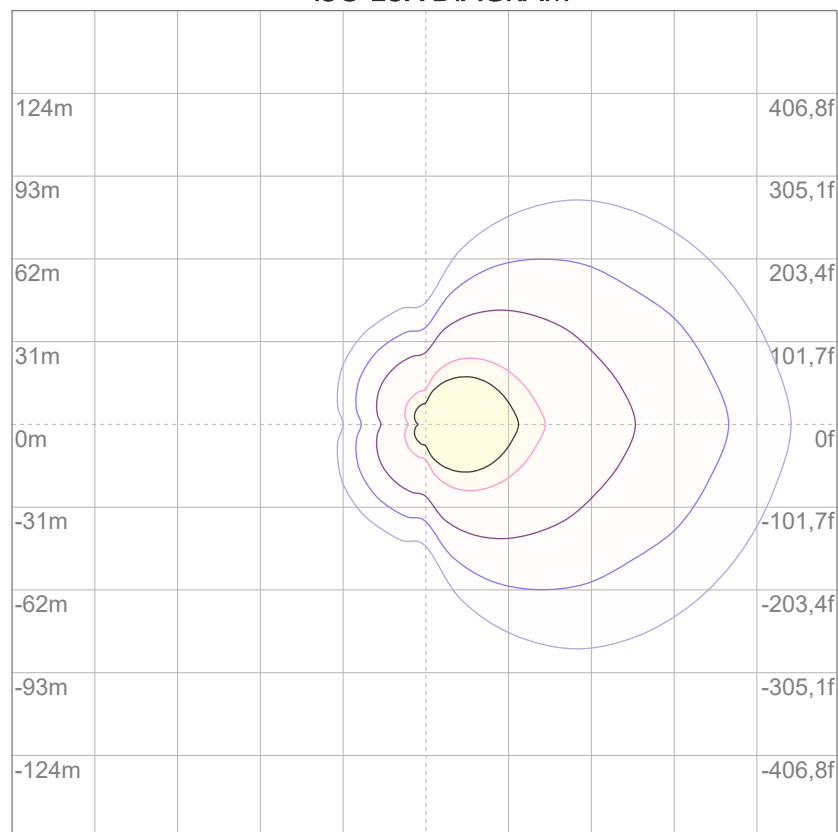
10%	177 cd
20%	354 cd
30%	531 cd
40%	708 cd
50%	885 cd
60%	1061 cd
70%	1238 cd
80%	1415 cd

Conditions:

Number of c-planes: 4

Candela at center: 1769 cd

ISO LUX DIAGRAM



3%	0,531 lx
5%	0,885 lx
10%	1,77 lx
30%	5,31 lx
50%	8,85 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,7 lx

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



Total lumen output:

1731 lm

Peak candela output:

1257 cd

PRODUCT NAME:

ECLEXPOTL150IPFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

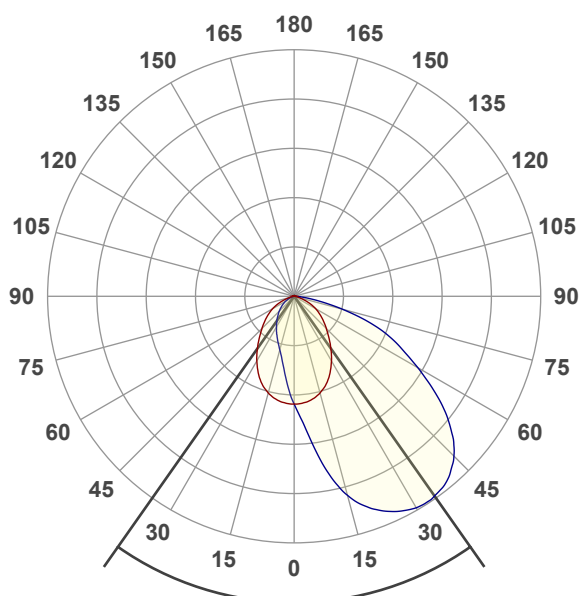
Red HB

Operator:

Giuseppe della Peruta

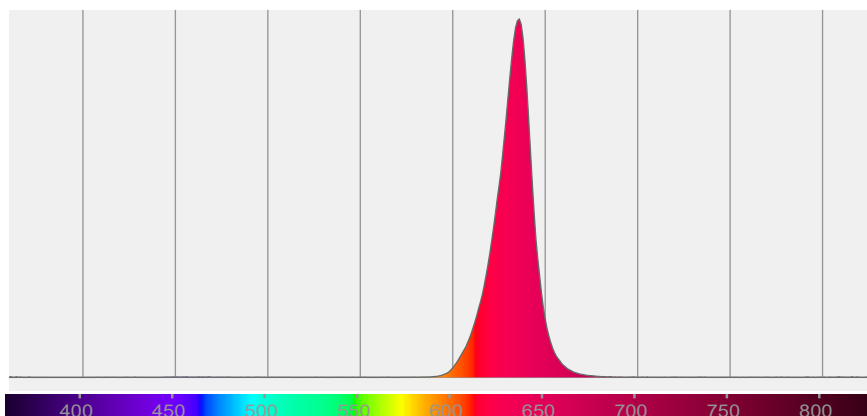
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22/09/2025 15:40:59



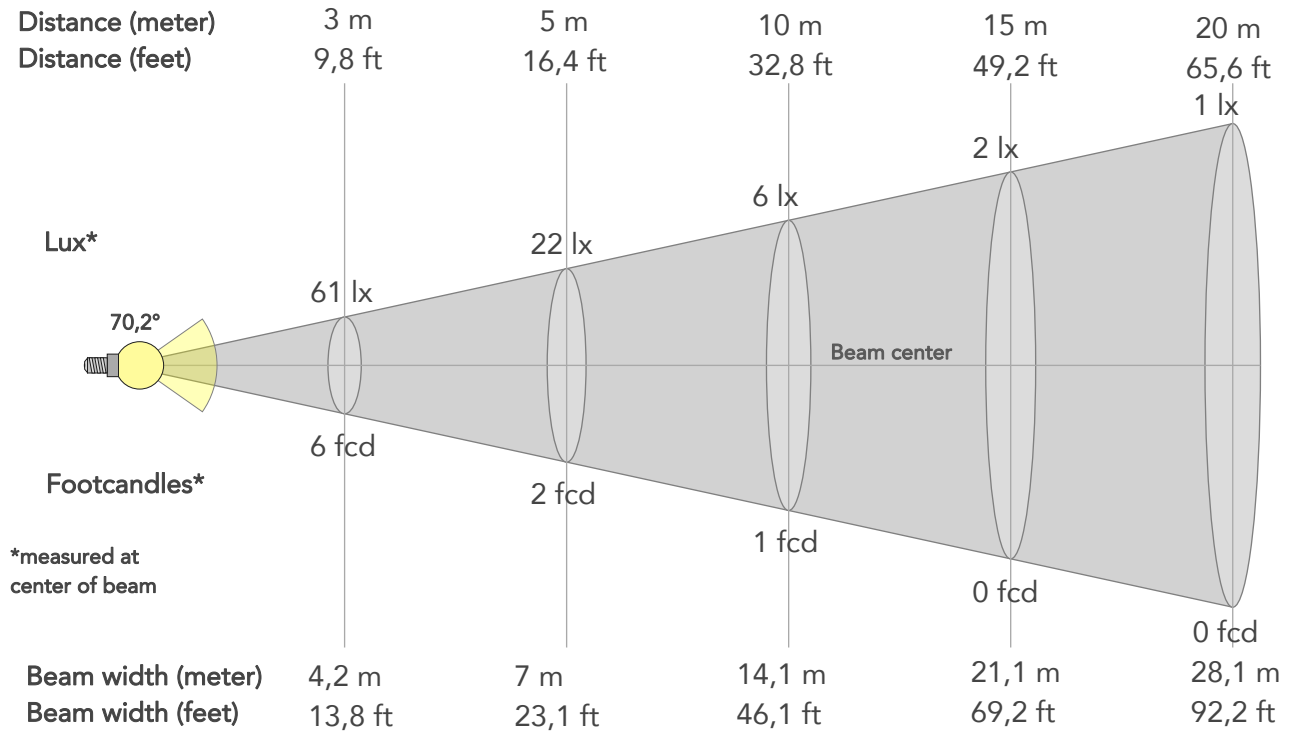
	Blue curve V	Red curve H
Beam angle 50%:	60,2°	80,2°
Field angle 10%:	120,3°	139,7°
Cut off angle 2.5%:	151,2°	157,6°

Spectra



BEAM DETAILS

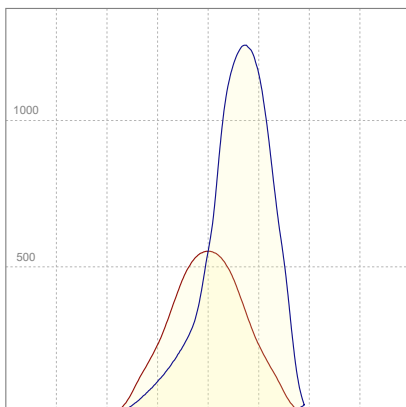
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,2°	130°	154,4°	82,6%	56,5%



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	553lx	138lx	61lx	35lx	22lx	10lx	6lx	2lx	1lx	1lx	1lx	0lx	0lx
Footcand.	51fcd	13fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,2m	5,6m	7m	10,5m	14,1m	21,1m	28,1m	35,2m	42,2m	56,2m	70,3m
Beam wid.	4,6ft	9,3ft	13,8ft	18,4ft	23,1ft	34,6ft	46,1ft	69,2ft	92,2ft	115,3ft	138,4ft	184,5ft	230,6ft

LINEAR DISTRIBUTION DIAGRAM

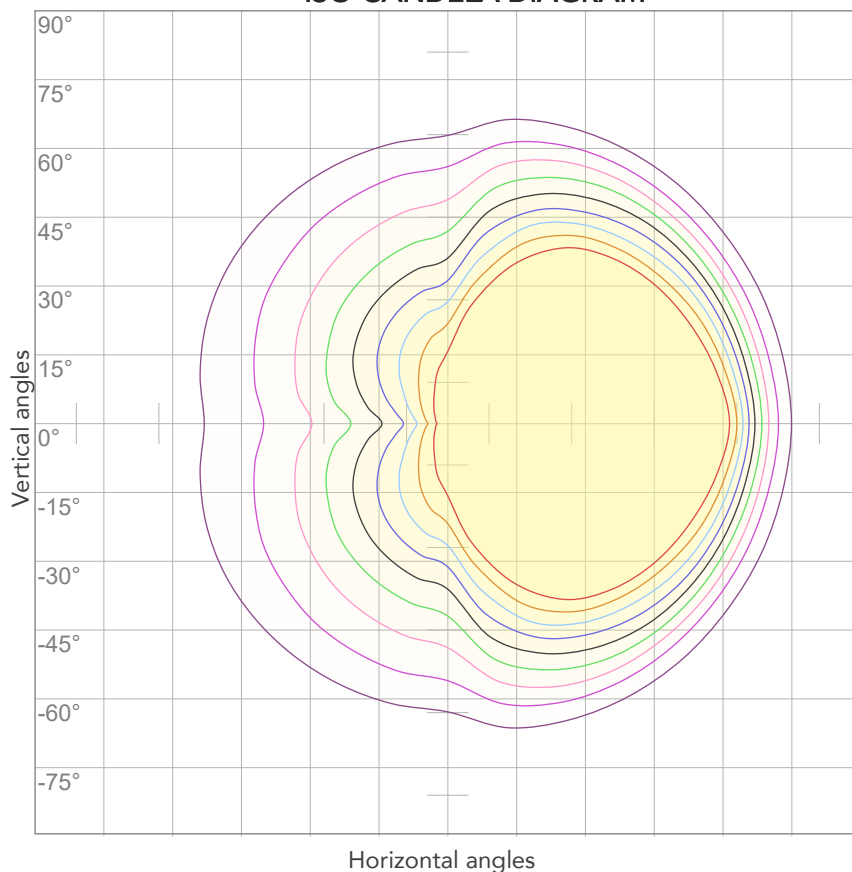


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,345A	74,4W	0,95	23lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



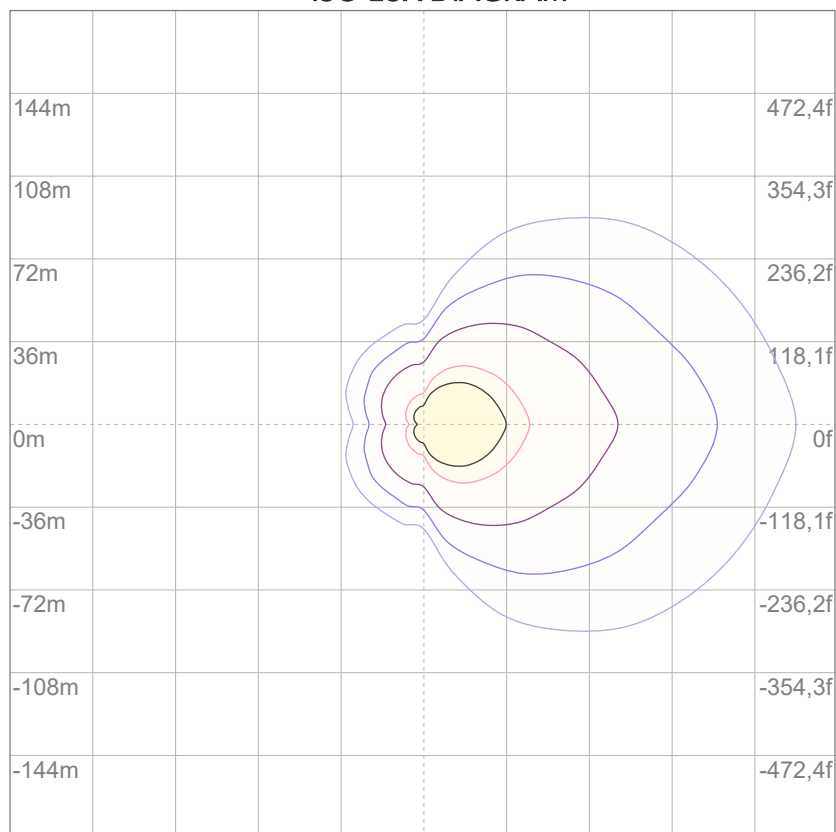
10%	55 cd
20%	111 cd
30%	166 cd
40%	221 cd
50%	276 cd
60%	332 cd
70%	387 cd
80%	442 cd

Conditions:

Number of c-planes: 4

Candela at center: 553 cd

ISO LUX DIAGRAM



3%	0,166 lx
5%	0,276 lx
10%	0,553 lx
30%	1,66 lx
50%	2,76 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,53 lx

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



Total lumen output:

3523 lm

Peak candela output:

2548 cd

PRODUCT NAME:

ECLEXPFL150IPFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

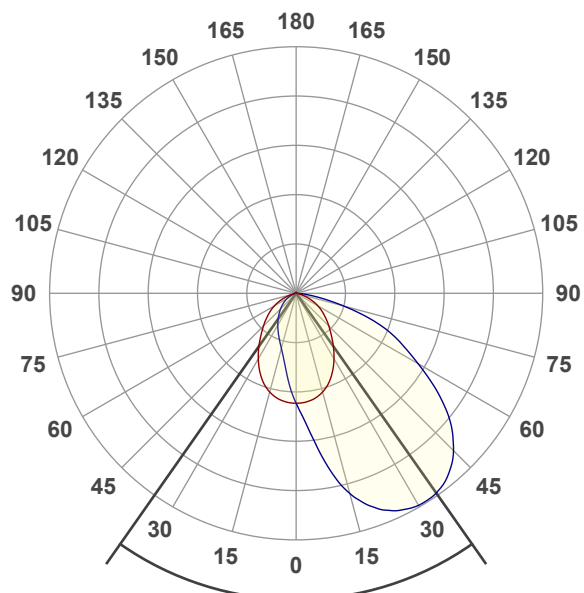
Green HB

Operator:

Giuseppe della Peruta

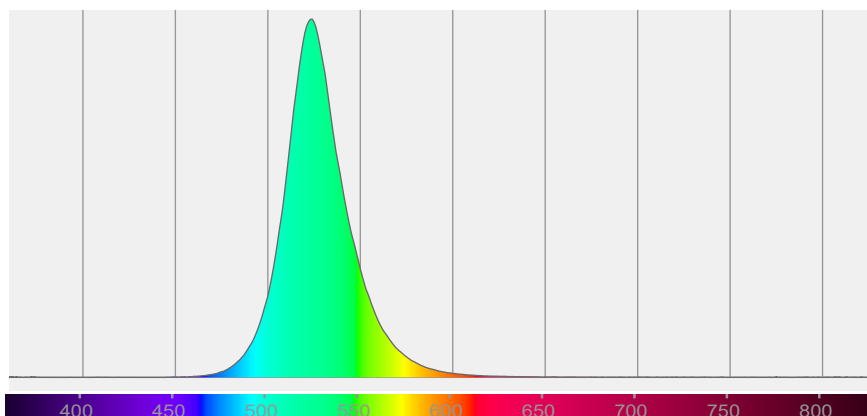
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22/09/2025 15:44:43



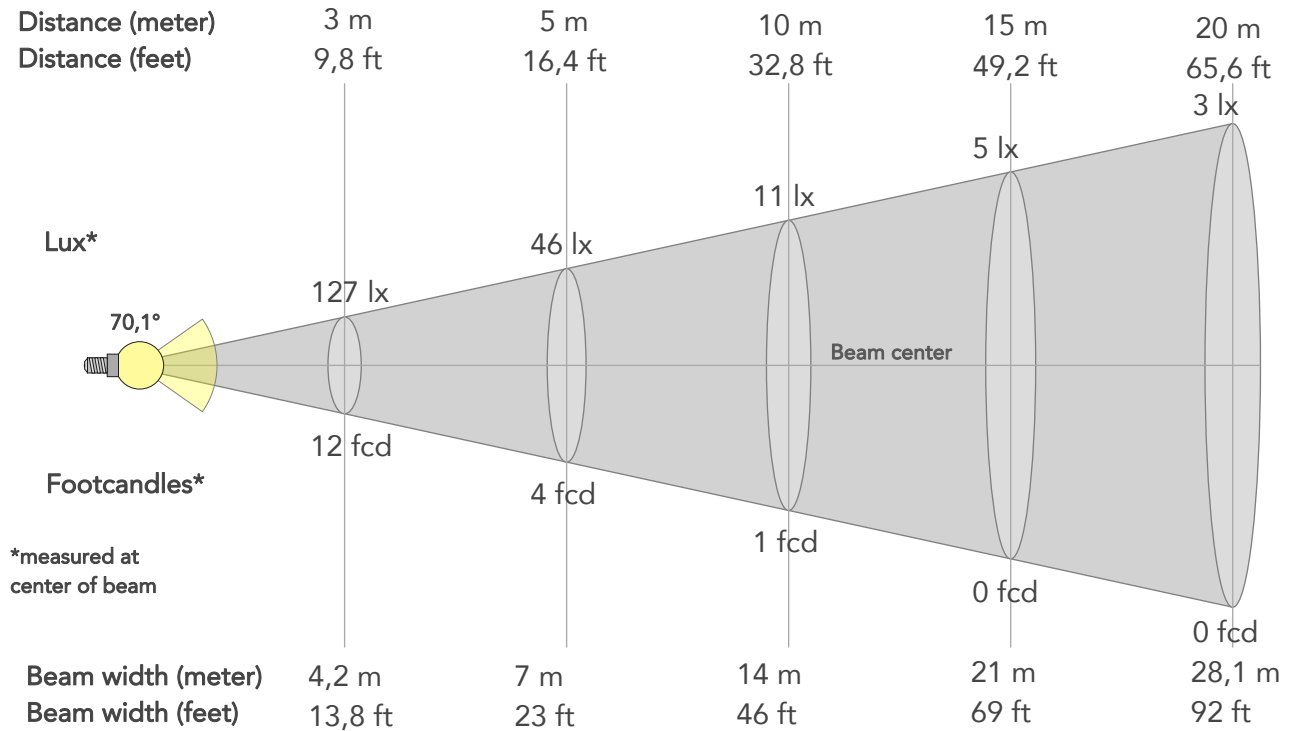
	Blue curve V	Red curve H
Beam angle 50%:	60,4°	79,8°
Field angle 10%:	121,6°	140,1°
Cut off angle 2.5%:	151,6°	157,9°

Spectra



BEAM DETAILS

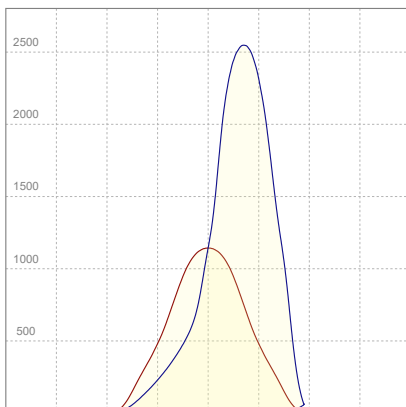
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,1°	130,8°	154,8°	82,6%	56,7%



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	1143lx	286lx	127lx	71lx	46lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	106fcd	27fcd	12fcd	7fcd	4fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,2m	5,6m	7m	10,5m	14m	21m	28,1m	35,1m	42,1m	56,1m	70,2m
Beam wid.	4,6ft	9,3ft	13,8ft	18,4ft	23ft	34,5ft	46ft	69ft	92ft	115,1ft	138,1ft	184,1ft	230,1ft

LINEAR DISTRIBUTION DIAGRAM

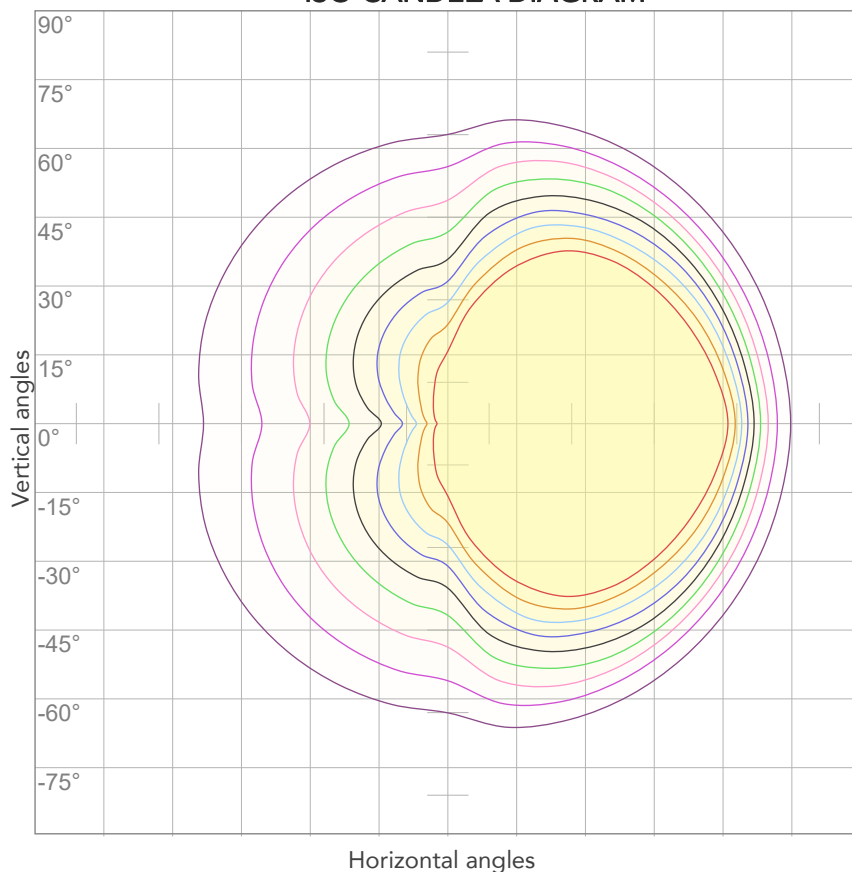


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,380A	82,7W	0,95	43lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



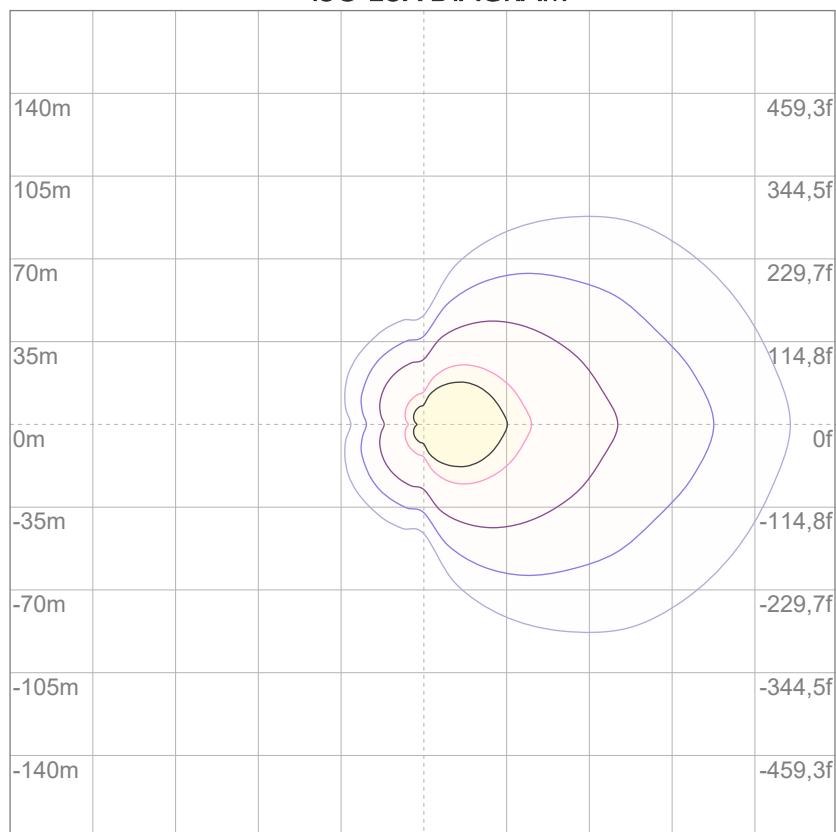
10%	114 cd
20%	229 cd
30%	343 cd
40%	457 cd
50%	572 cd
60%	686 cd
70%	800 cd
80%	914 cd

Conditions:

Number of c-planes: 4

Candela at center: 1143 cd

ISO LUX DIAGRAM



3%	0,343 lx
5%	0,572 lx
10%	1,14 lx
30%	3,43 lx
50%	5,72 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,4 lx

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



Total lumen output:

702 lm

Peak candela output:

506 cd

PRODUCT NAME:

ECLEXPOFL150IPFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

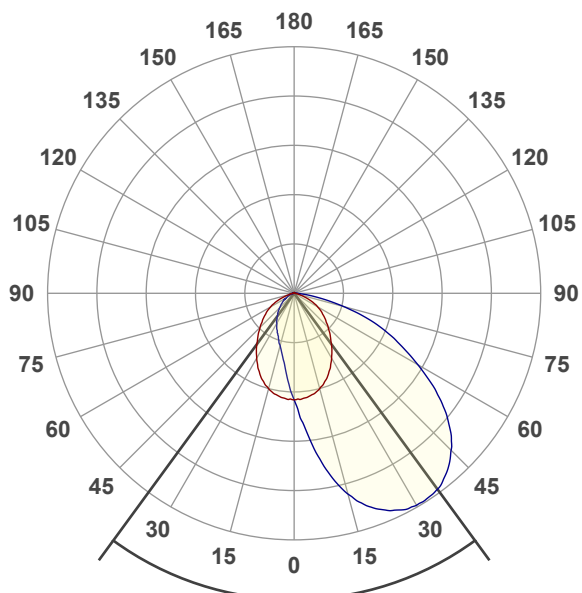
Blue HB

Operator:

Giuseppe della Peruta

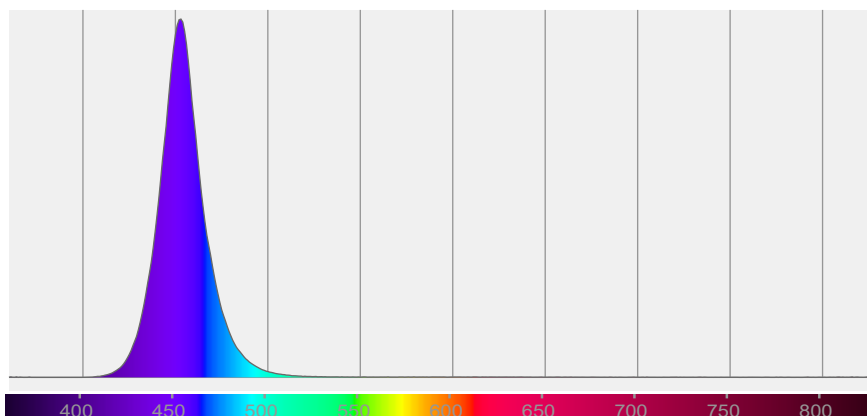
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22/09/2025 15:48:58



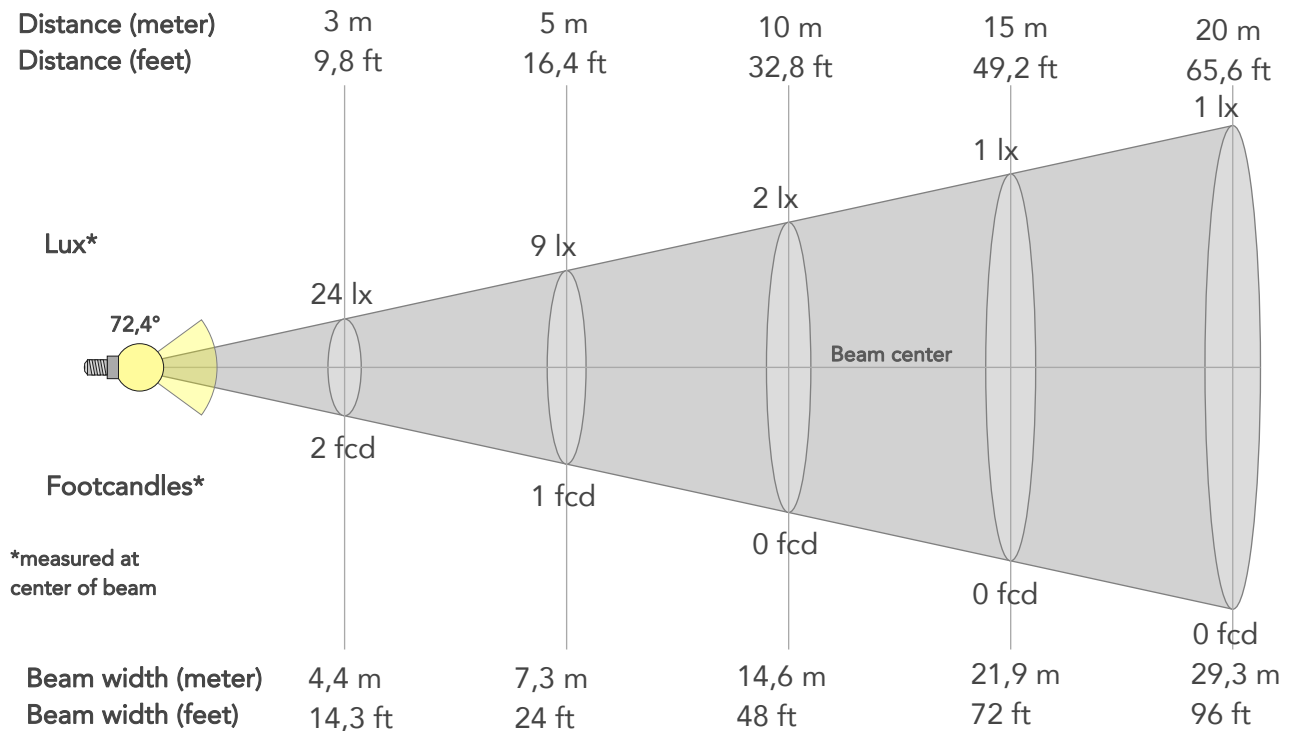
	Blue curve V	Red curve H
Beam angle 50%:	60,8°	84°
Field angle 10%:	120,7°	141,7°
Cut off angle 2.5%:	151,3°	159,1°

Spectra



BEAM DETAILS

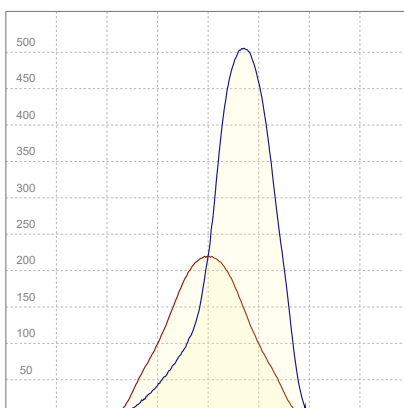
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72,4°	131,2°	155,2°	82,2%	56,0%



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	220lx	55lx	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.	1,5m	2,9m	4,4m	5,9m	7,3m	11m	14,6m	21,9m	29,3m	36,6m	43,9m	58,5m	73,2m
Beam wid.	4,8ft	9,7ft	14,3ft	19,2ft	24ft	36ft	48ft	72ft	96ft	120ft	144ft	192ft	240ft

LINEAR DISTRIBUTION DIAGRAM

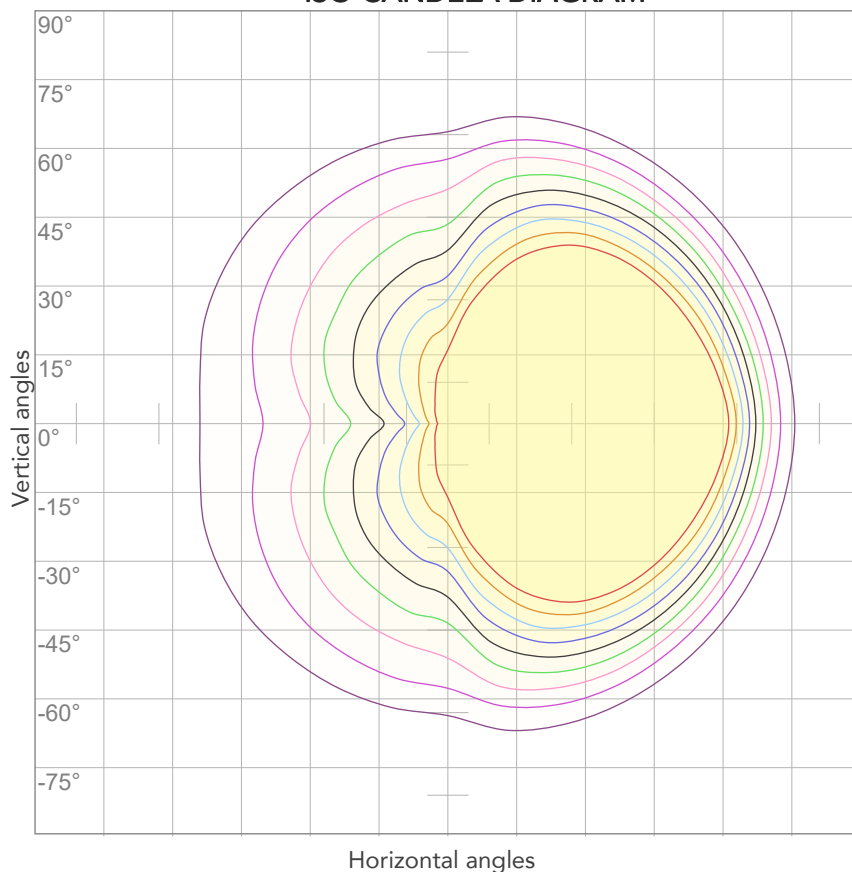


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,395A	86,5W	0,96	8lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



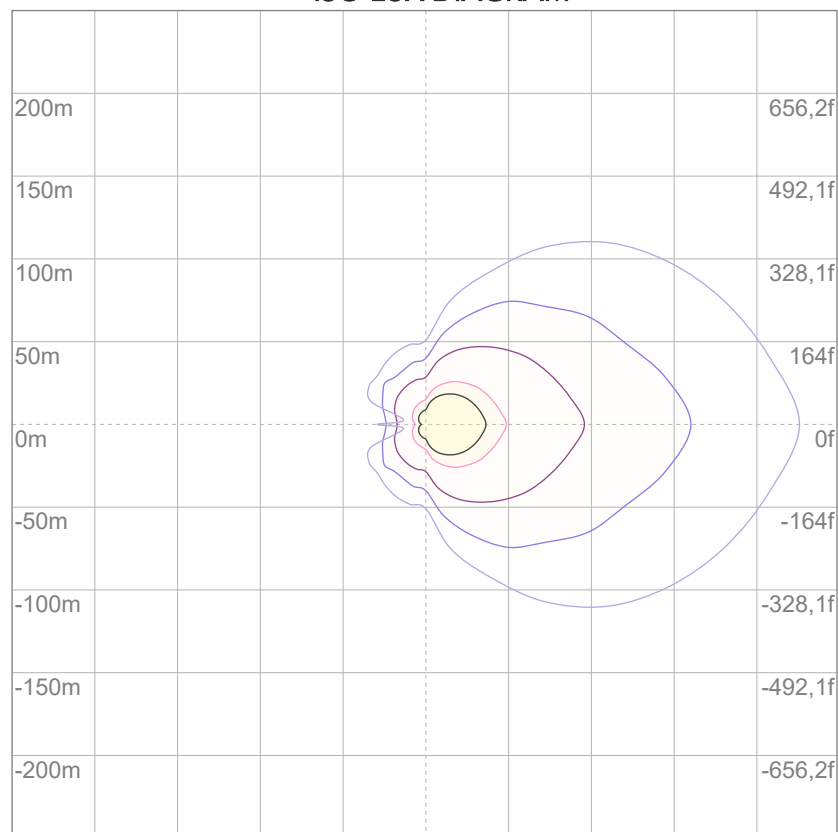
10%	22 cd
20%	44 cd
30%	66 cd
40%	88 cd
50%	110 cd
60%	132 cd
70%	154 cd
80%	176 cd

Conditions:

Number of c-planes: 4

Candela at center: 220 cd

ISO LUX DIAGRAM



3%	65,9m lx
5%	0,110 lx
10%	0,220 lx
30%	0,659 lx
50%	1,10 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,20 lx

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



Total lumen output:

4032 lm

Peak candela output:

2853 cd

Light quality:

CRI: 82,3

Color temperature:

3244 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

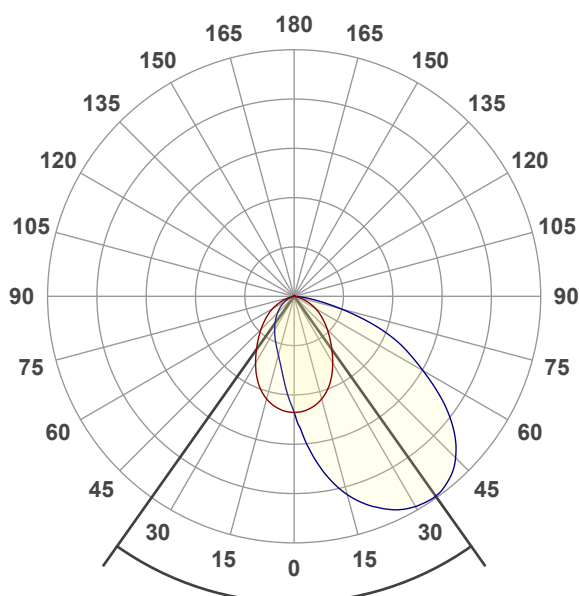
White HB

Operator:

Giuseppe della Peruta

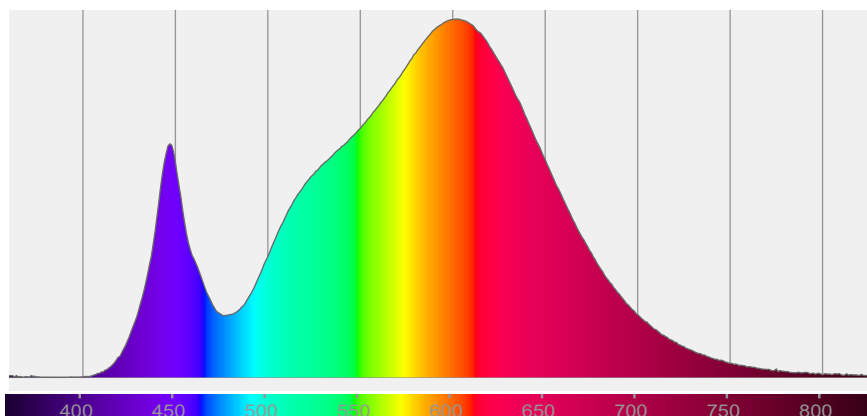
Date and time:

22/09/2025 15:53:18

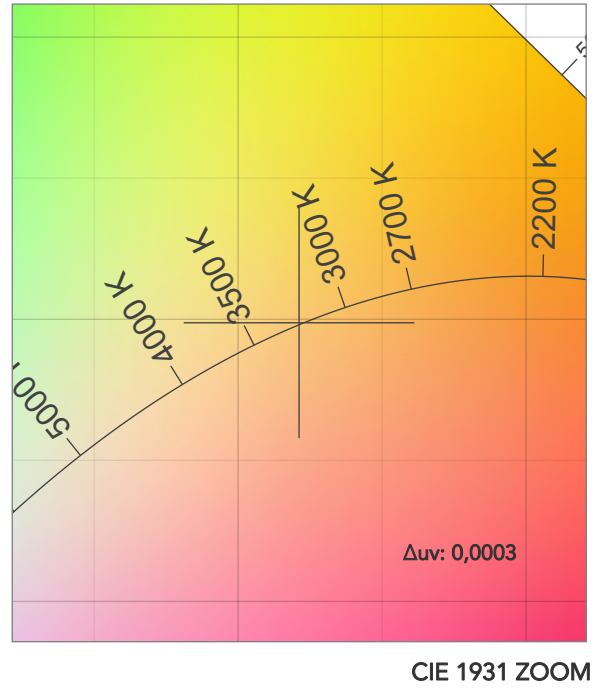
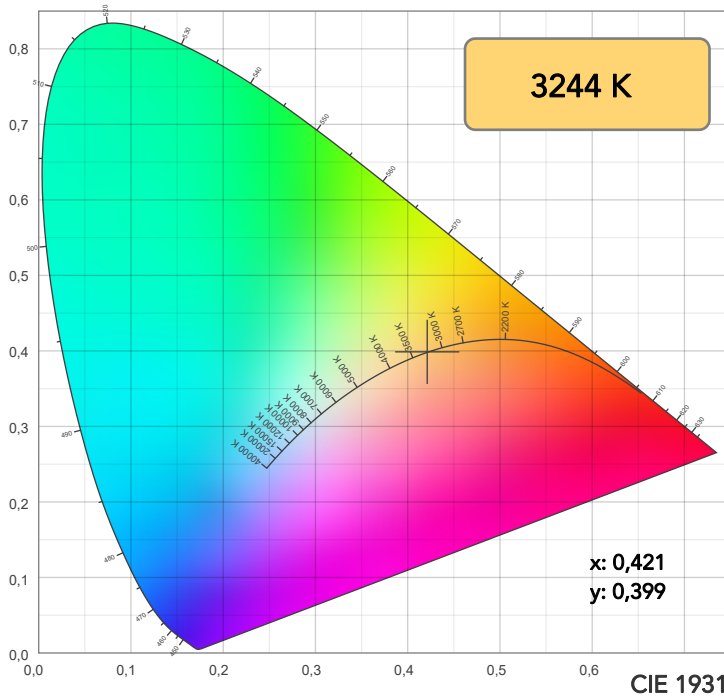


	Blue curve V	Red curve H
Beam angle 50%:	63,7°	77,6°
Field angle 10%:	123,1°	139°
Cut off angle 2.5%:	152°	157,2°

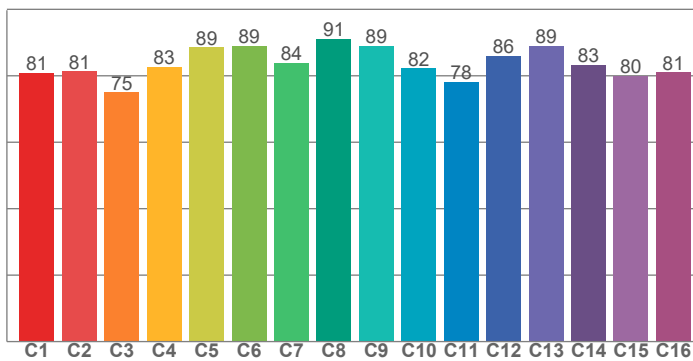
Spectra



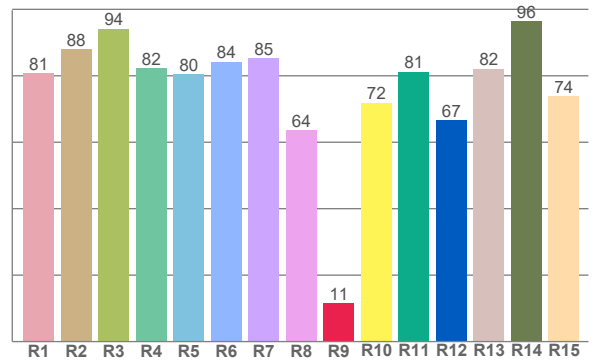
COLOR DETAILS



TM30: 83,6



CRI: 82,3 (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
80,7	87,9	94,2	82,2	80,4	84,2	85,4	63,5	11,5	71,9	81,3	66,7	82,1	96,5	73,8

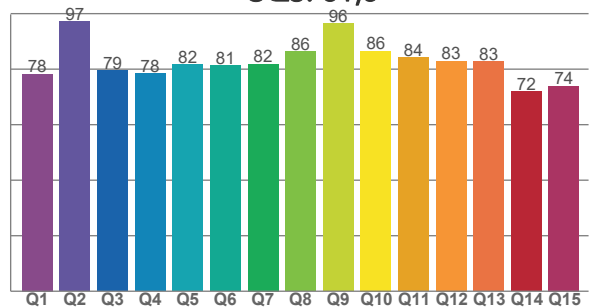
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,8	81,3	75,1	82,7	88,6	89,1	83,8	91,2	89,0	82,2	78,2	86,0	89,0	83,3	80,0	81,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,3	97,2	79,5	78,3	81,8	81,3	81,9	86,4	96,5	86,5	84,1	82,9	82,7	71,9	74,0

CQS: 81,5



COLOR PARAMETERS

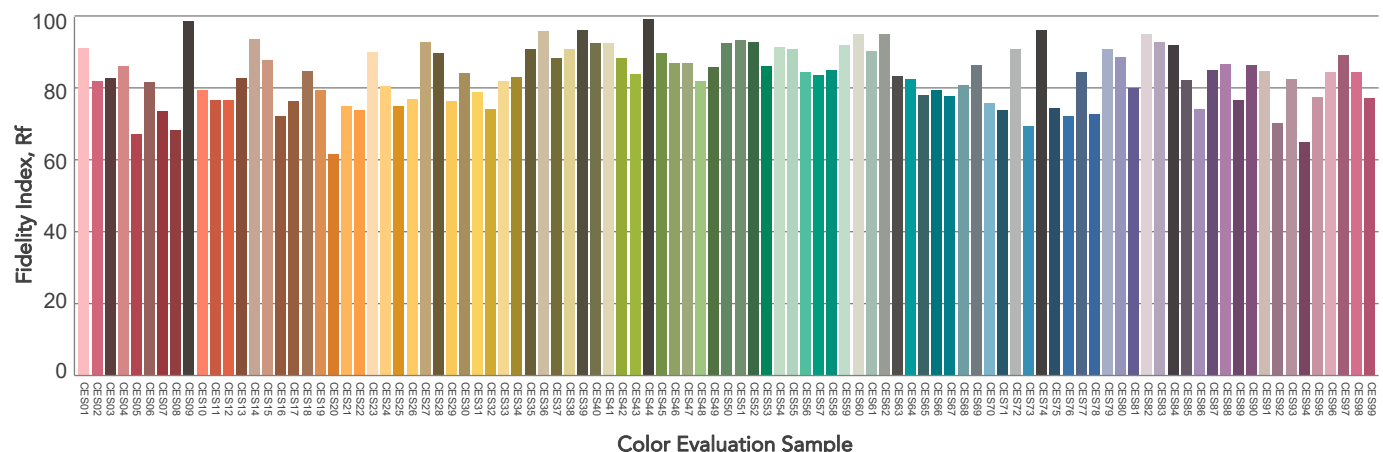
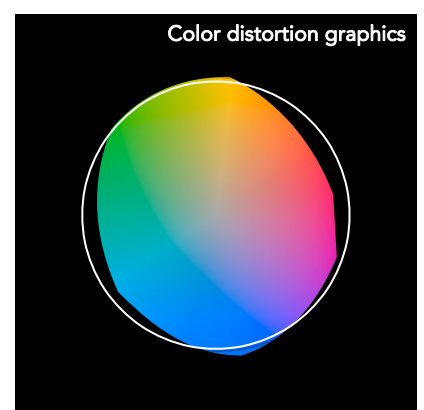
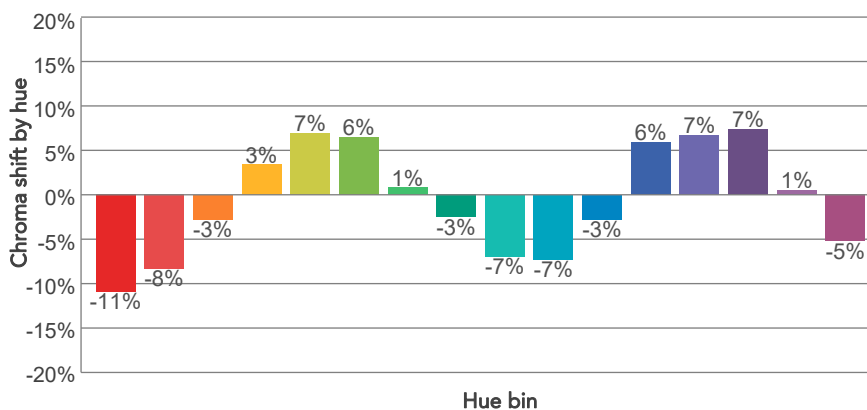
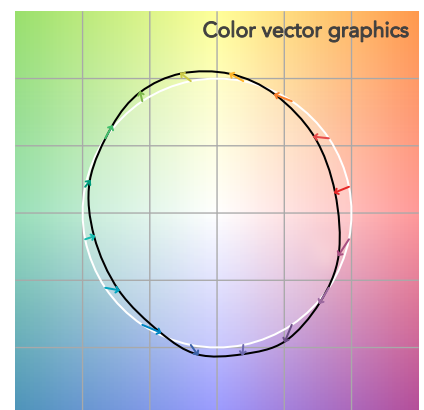
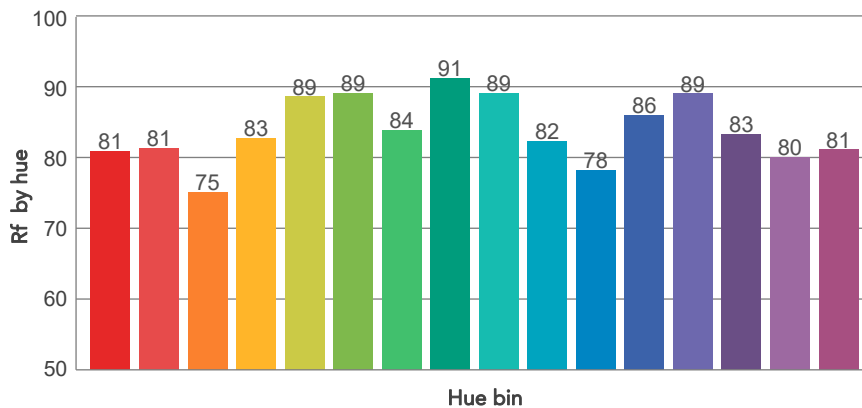
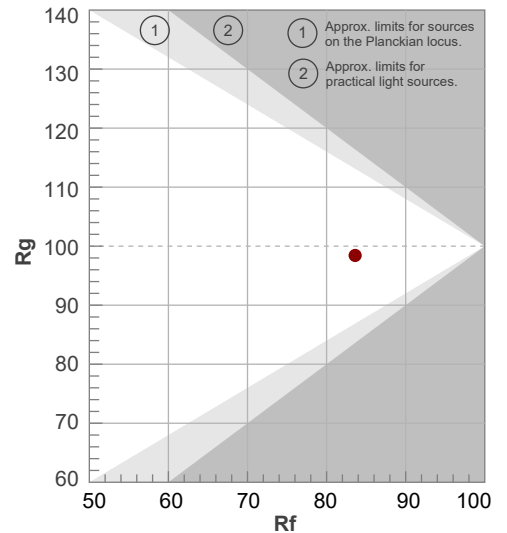
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3244 K	82,3	11,5	83,6	98,4	81,5	68	0,421	0,399	0,0003

TM30 DETAILS

Rf 83,6
Fidelity index Rf

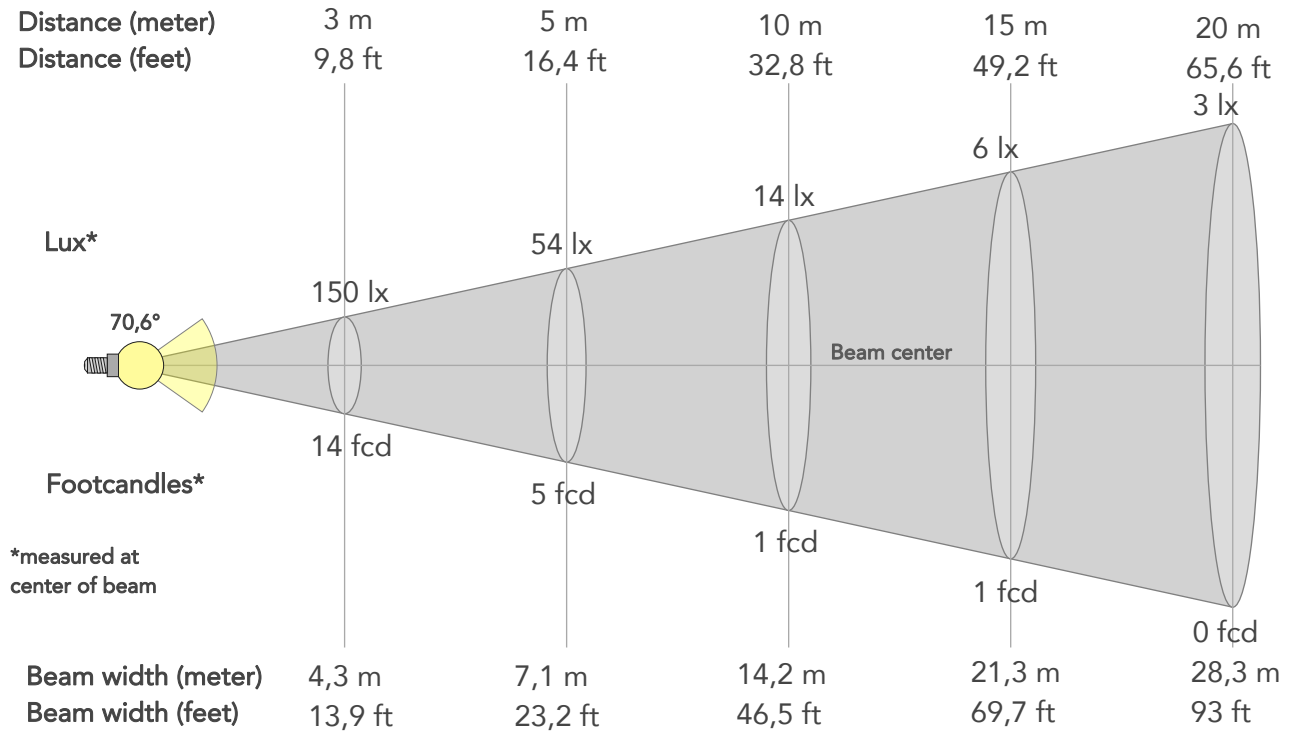
Rg 98,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	-2%
2	81	-8%	7%
3	75	-3%	13%
4	83	3%	10%
5	89	7%	6%
6	89	6%	-2%
7	84	1%	-10%
8	91	-3%	-5%
9	89	-7%	-1%
10	82	-7%	7%
11	78	-3%	14%
12	86	6%	6%
13	89	7%	-2%
14	83	7%	-11%
15	80	1%	-13%
16	81	-5%	-13%



BEAM DETAILS

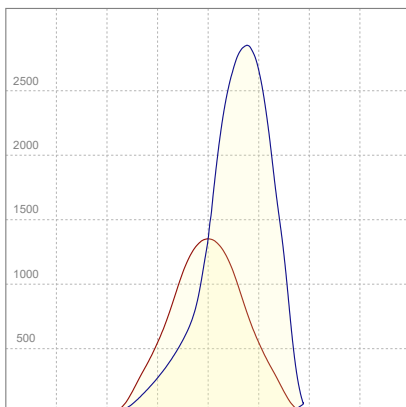
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,6°	131°	154,6°	82,7%	56,5%



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	1352lx	338lx	150lx	84lx	54lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	126fcd	31fcd	14fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,3m	5,7m	7,1m	10,6m	14,2m	21,3m	28,3m	35,4m	42,5m	56,7m	70,8m
Beam wid.	4,7ft	9,4ft	13,9ft	18,6ft	23,2ft	34,9ft	46,5ft	69,7ft	93ft	116,2ft	139,4ft	185,9ft	232,4ft

LINEAR DISTRIBUTION DIAGRAM

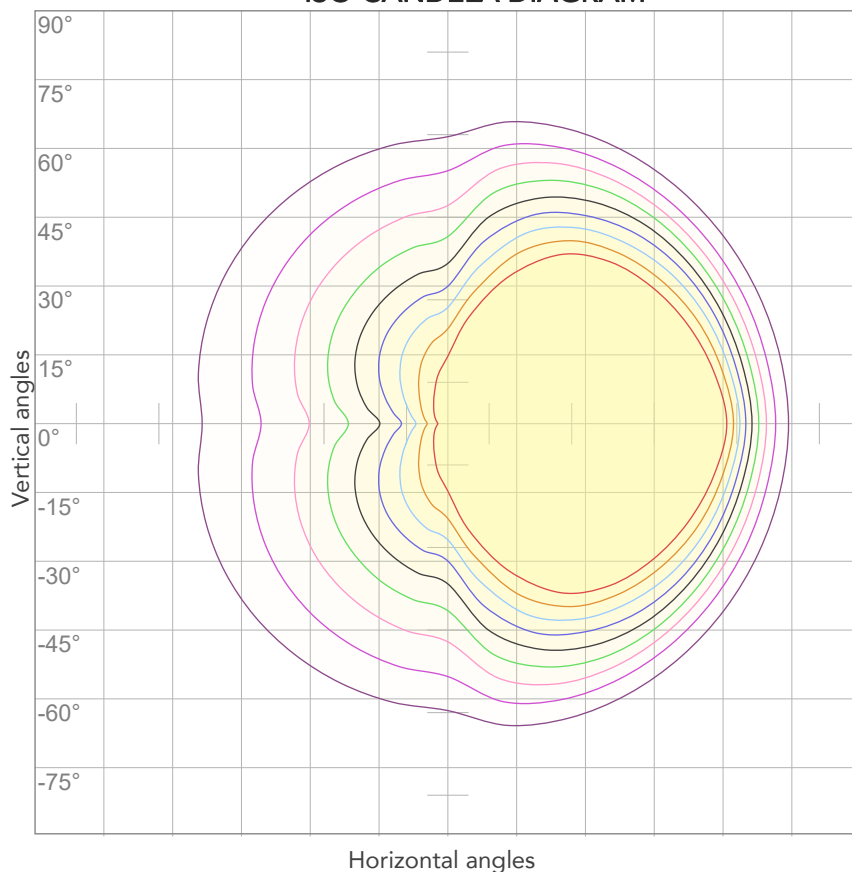


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,393A	86,0W	0,96	47lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



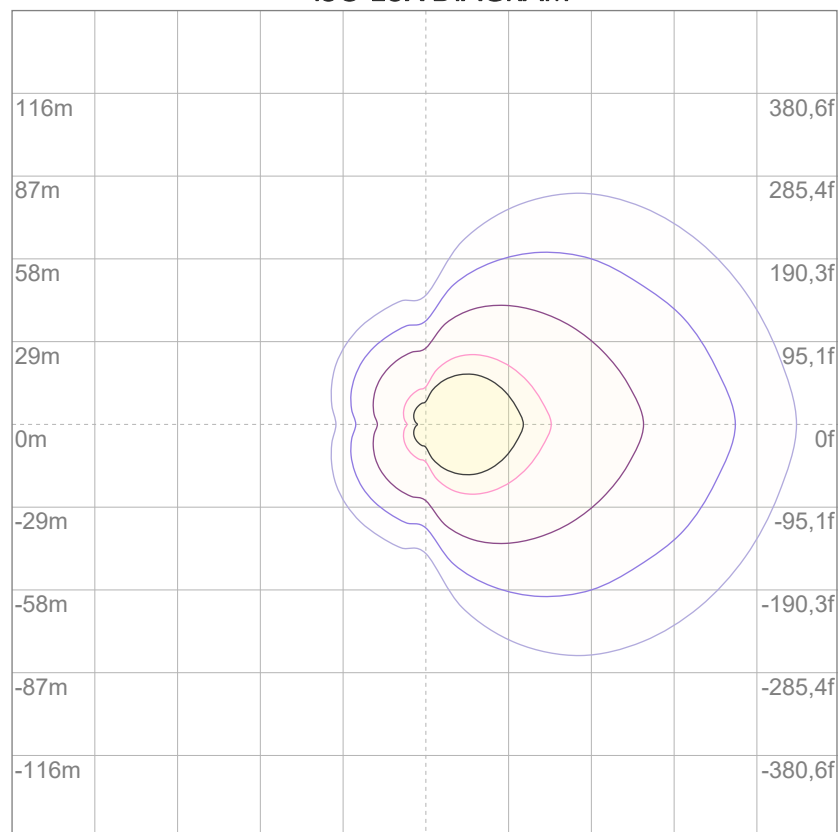
10%	135 cd
20%	270 cd
30%	406 cd
40%	541 cd
50%	676 cd
60%	811 cd
70%	946 cd
80%	1082 cd

Conditions:

Number of c-planes: 4

Candela at center: 1352 cd

ISO LUX DIAGRAM



3%	0,406 lx
5%	0,676 lx
10%	1,35 lx
30%	4,06 lx
50%	6,76 lx

Conditions:

Number of c-planes: 4

Lux at center: 13,5 lx

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



Total lumen output:

5314 lm

Peak candela output:

3785 cd

Light quality:

CRI: 81,7

Color temperature:

2831 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

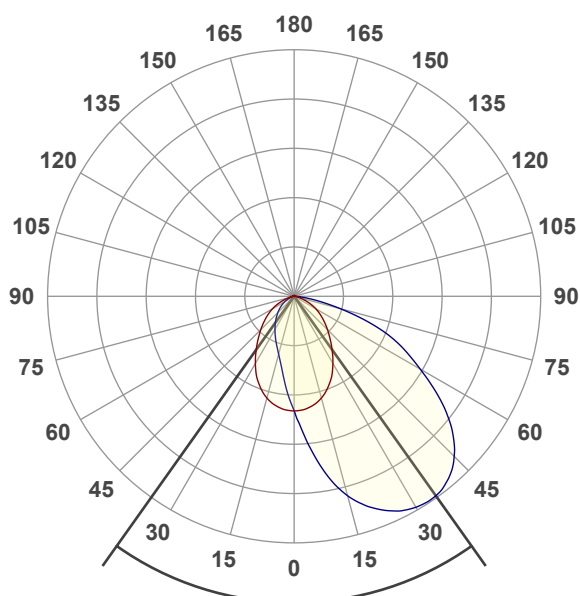
2800K HB

Operator:

Giuseppe della Peruta

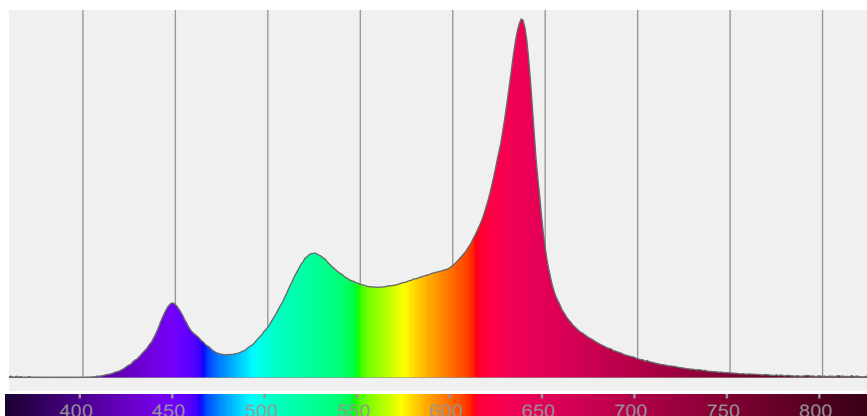
Date and time:

22/09/2025 16:34:11

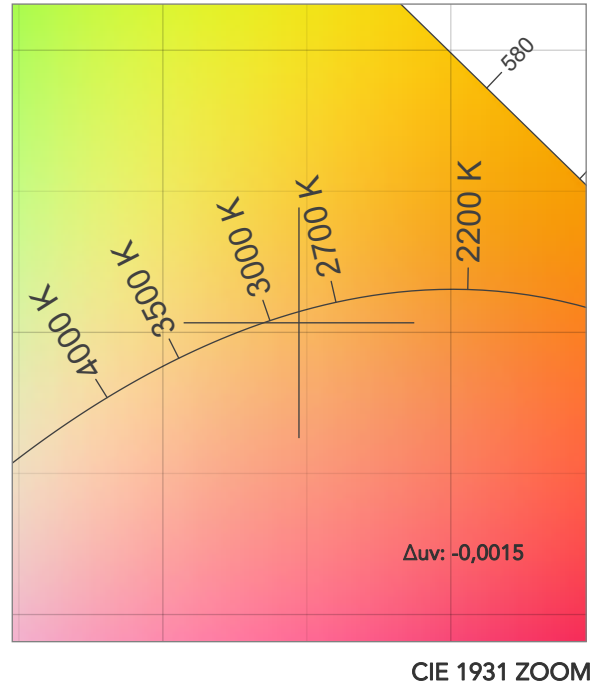
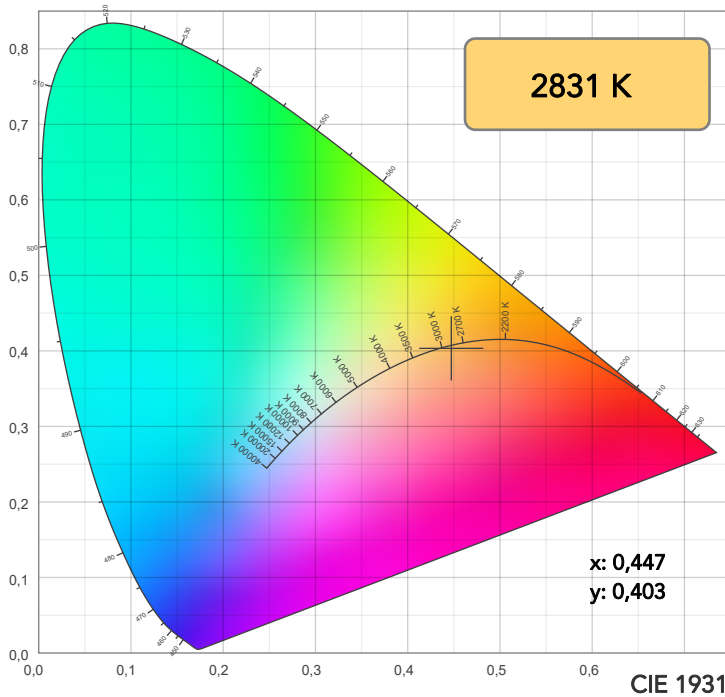


	Blue curve V	Red curve H
Beam angle 50%:	62,8°	78,8°
Field angle 10%:	122,4°	139,2°
Cut off angle 2.5%:	151,9°	157,4°

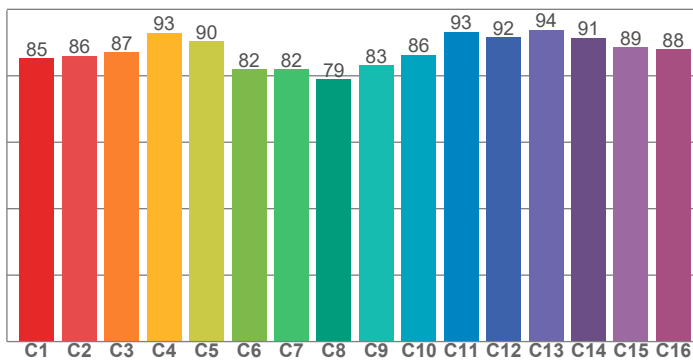
Spectra



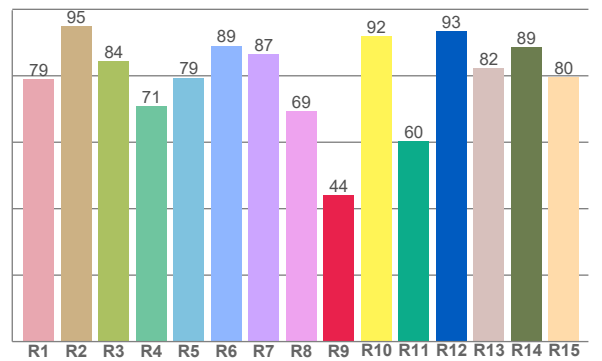
COLOR DETAILS



TM30: 87,9



CRI: 81,7 (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
78,9	94,8	84,3	70,8	79,5	89,1	86,6	69,4	44,2	92,0	60,3	93,4	82,4	88,6	79,6

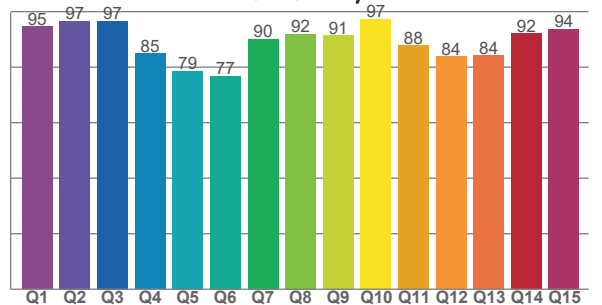
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
85,3	86,0	87,0	92,9	90,4	81,9	82,0	79,0	83,2	86,3	93,2	91,7	93,9	91,4	88,6	88,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,6	96,7	96,7	85,0	78,6	76,8	90,1	91,9	91,5	97,3	87,7	83,7	84,1	92,1	93,8

CQS: 87,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2831 K	81,7	44,2	87,9	111,1	87,3	75	0,447	0,403	-0,0015

TM30 DETAILS

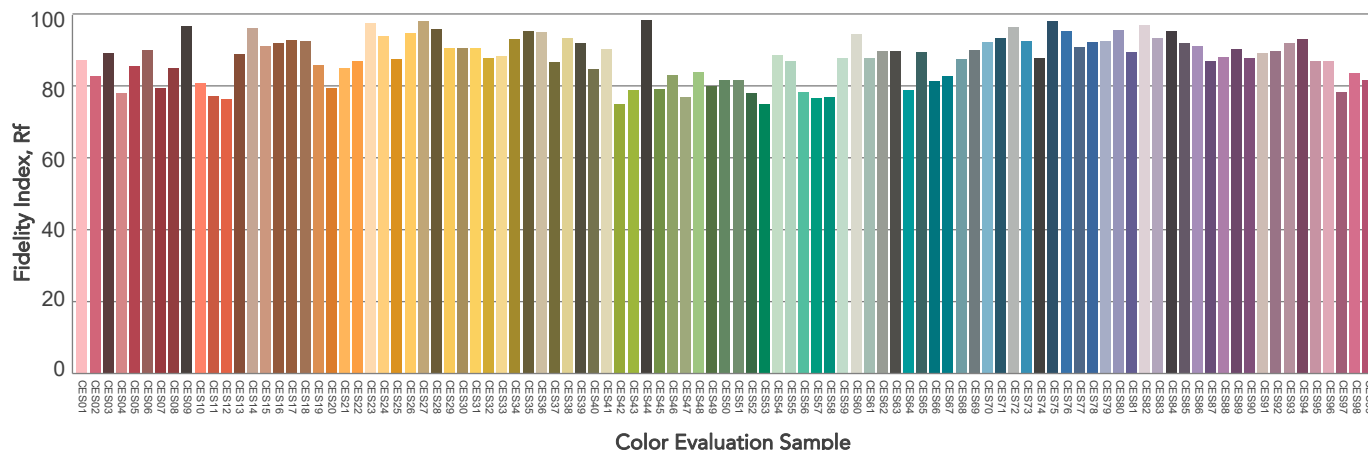
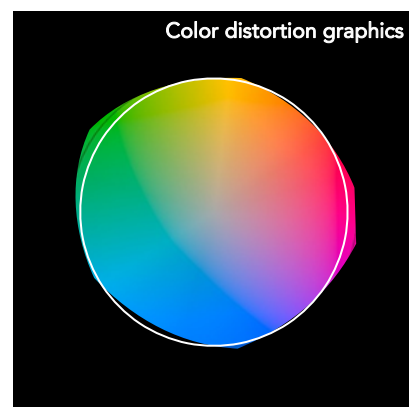
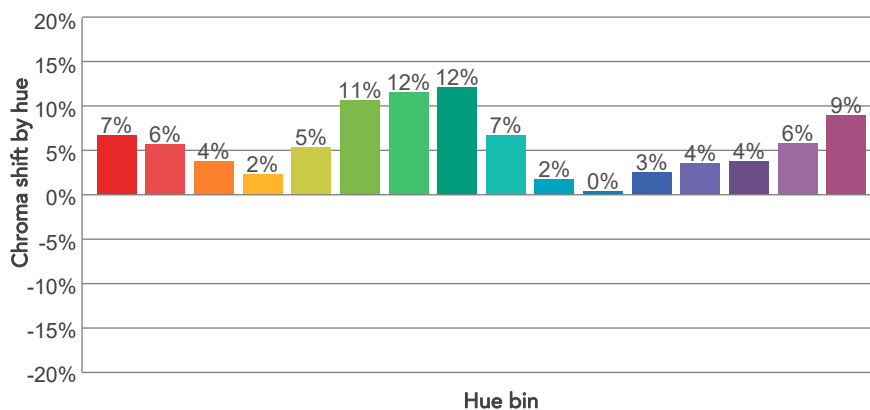
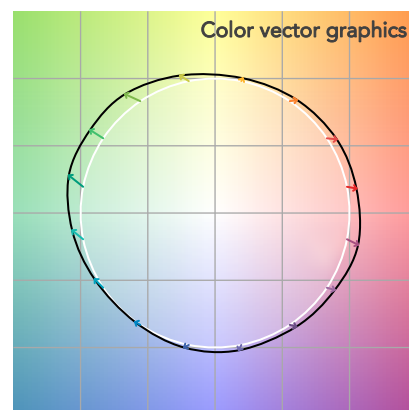
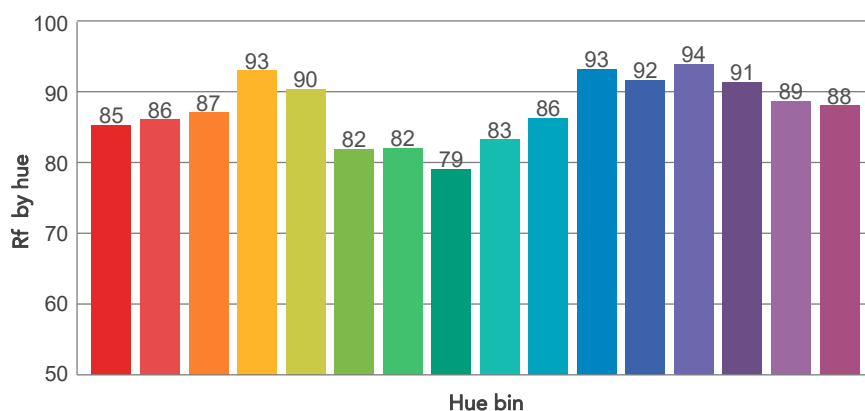
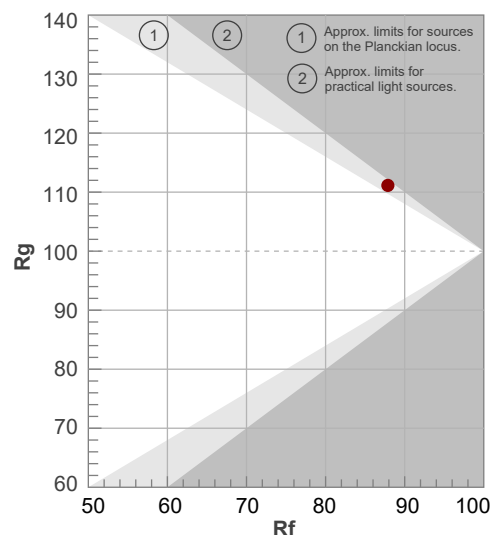
Rf 87,9

Fidelity index Rf

Rg 111,1

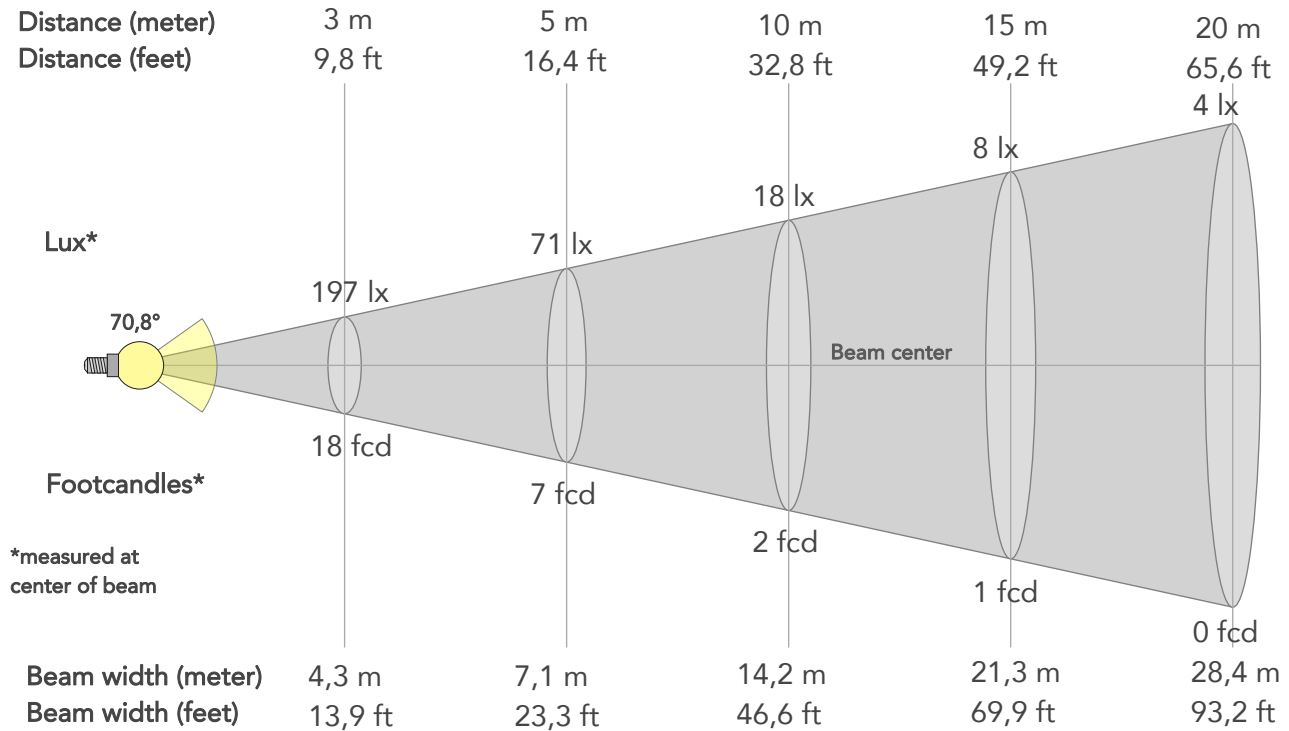
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	85	7%	-3%
2	86	6%	-5%
3	87	4%	-4%
4	93	2%	-1%
5	90	5%	6%
6	82	11%	7%
7	82	12%	0%
8	79	12%	-6%
9	83	7%	-8%
10	86	2%	-9%
11	93	0%	-4%
12	92	3%	-3%
13	94	4%	-3%
14	91	4%	3%
15	89	6%	2%
16	88	9%	-2%



BEAM DETAILS

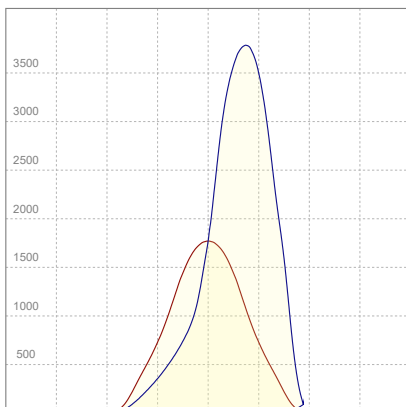
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,8°	130,8°	154,6°	82,8%	56,7%



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	1770lx	442lx	197lx	111lx	71lx	31lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	164fcd	41fcd	18fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,3m	5,7m	7,1m	10,7m	14,2m	21,3m	28,4m	35,5m	42,6m	56,8m	71m
Beam wid.	4,7ft	9,4ft	13,9ft	18,6ft	23,3ft	35ft	46,6ft	69,9ft	93,2ft	116,5ft	139,8ft	186,4ft	233ft

LINEAR DISTRIBUTION DIAGRAM

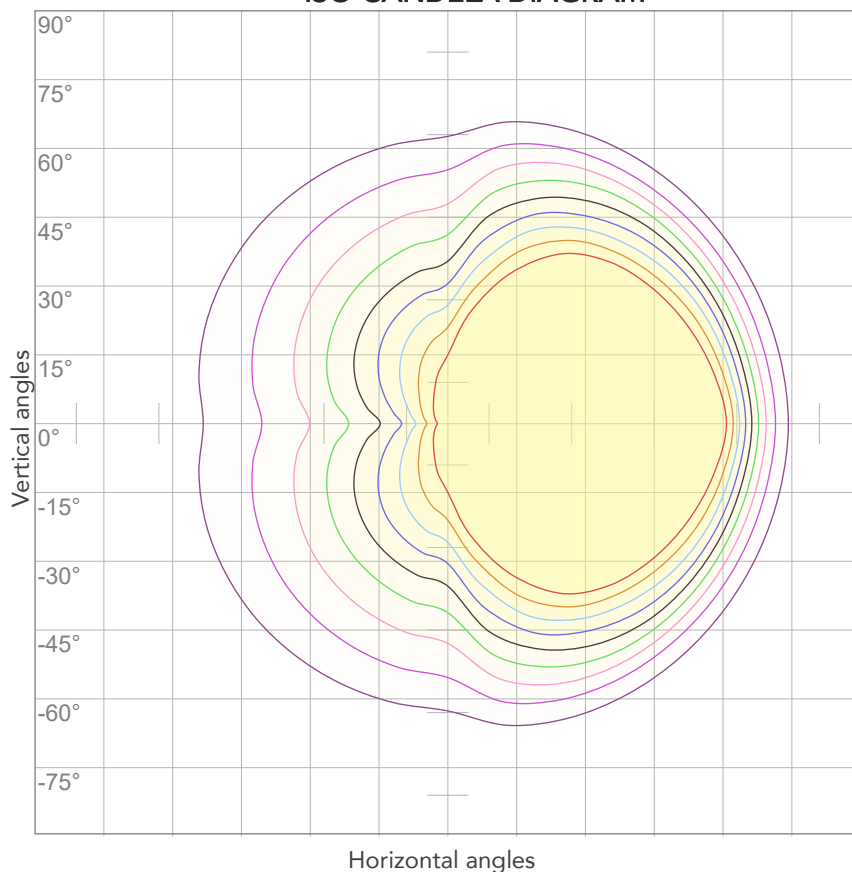


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,588A	131,9W	0,98	40lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



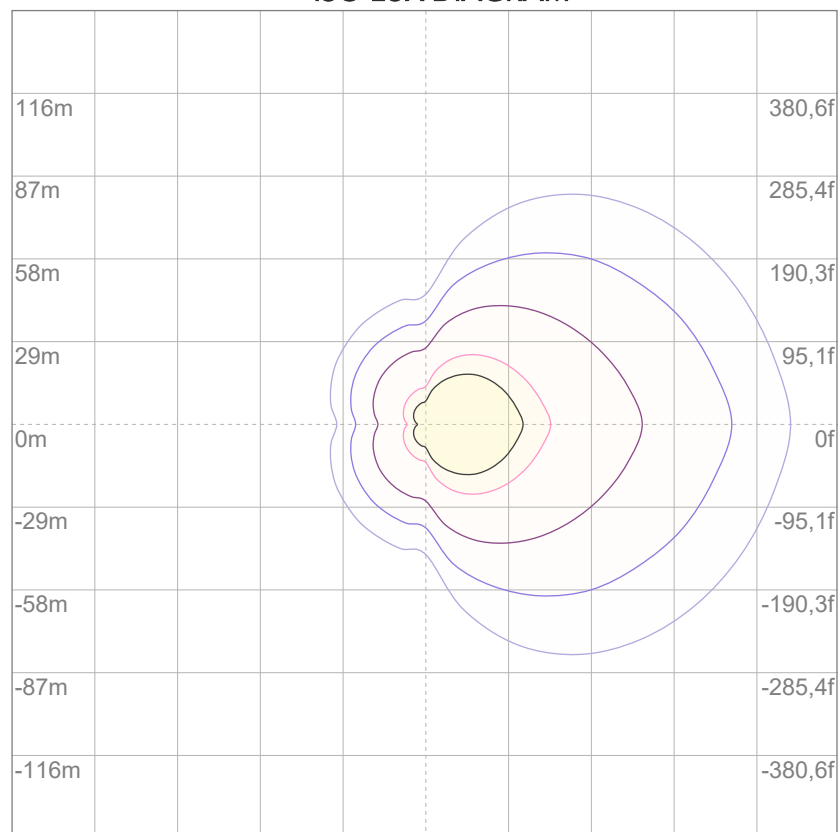
10%	177 cd
20%	354 cd
30%	531 cd
40%	708 cd
50%	885 cd
60%	1062 cd
70%	1239 cd
80%	1416 cd

Conditions:

Number of c-planes: 4

Candela at center: 1770 cd

ISO LUX DIAGRAM



3%	0,531 lx
5%	0,885 lx
10%	1,77 lx
30%	5,31 lx
50%	8,85 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,7 lx

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



Total lumen output:

5235 lm

Peak candela output:

3731 cd

Light quality:

CRI: 88,0

Color temperature:

3195 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

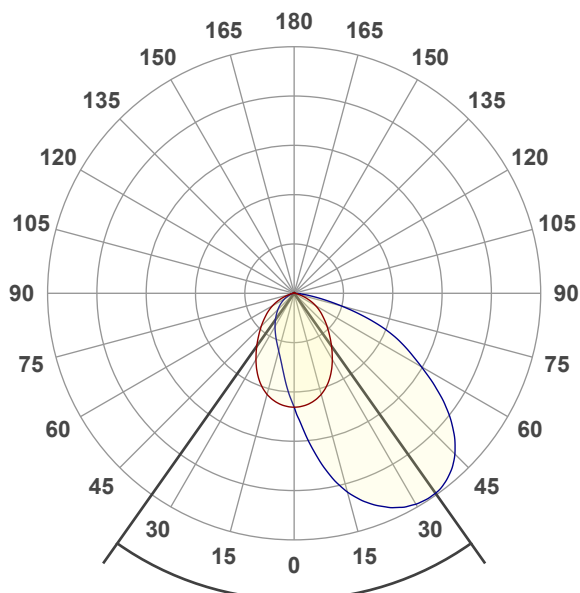
3200K HB

Operator:

Giuseppe della Peruta

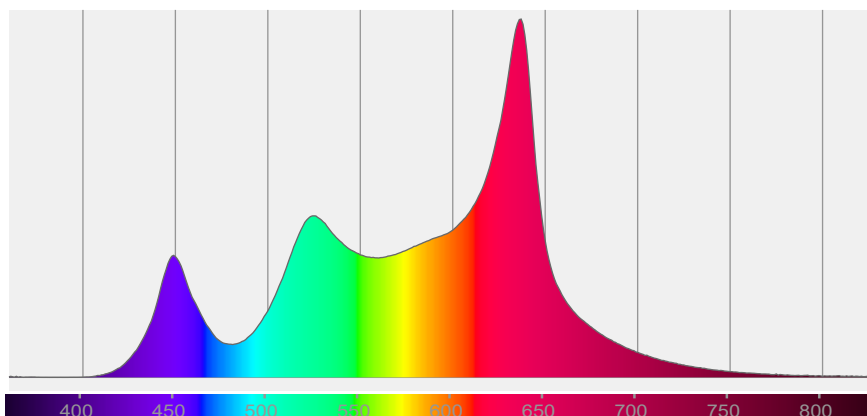
Date and time:

22/09/2025 16:29:38

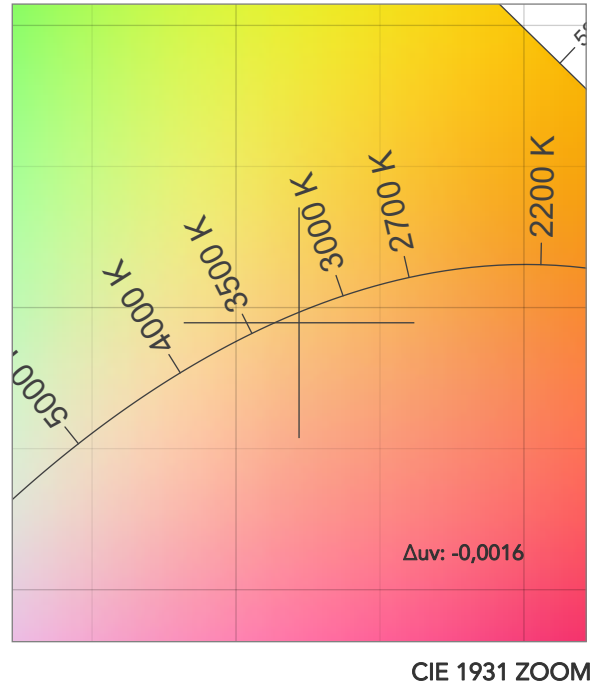
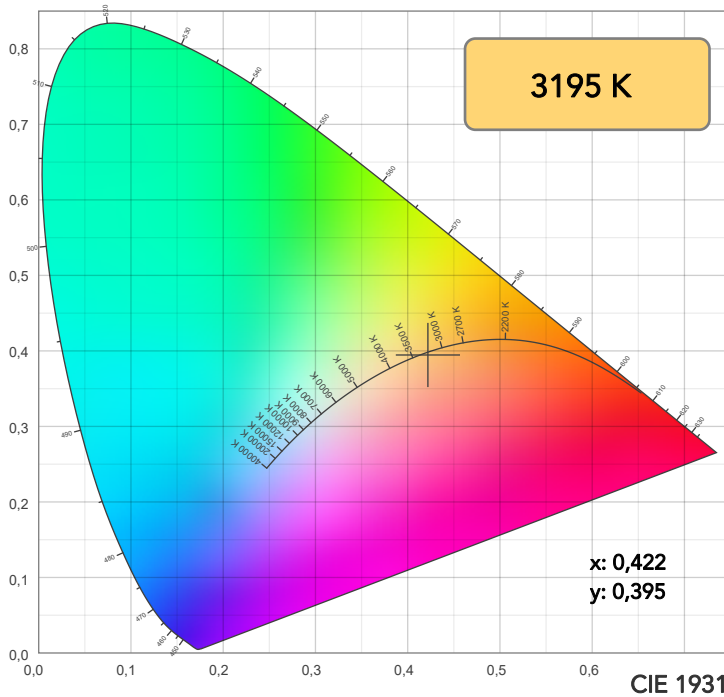


	Blue curve V	Red curve H
Beam angle 50%:	62,9°	78,2°
Field angle 10%:	122,5°	139,1°
Cut off angle 2.5%:	151,9°	157,3°

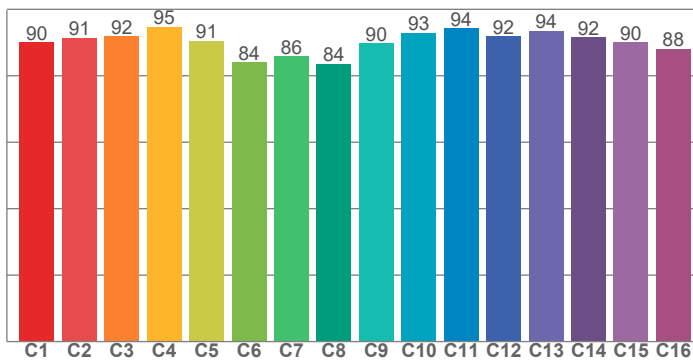
Spectra



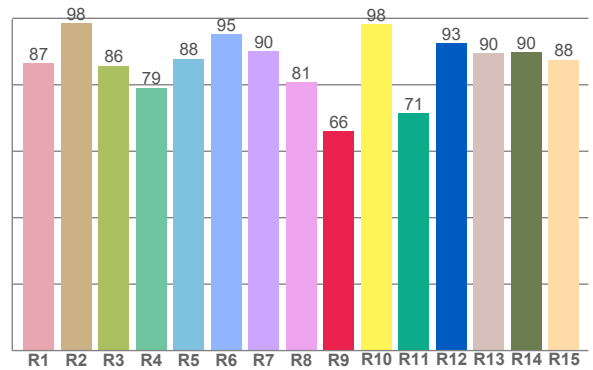
COLOR DETAILS



TM30: 90,7



CRI: 88,0 (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
86,6	98,4	85,7	79,1	87,9	95,3	90,1	80,8	66,1	98,3	71,3	92,5	89,5	89,9	87,5

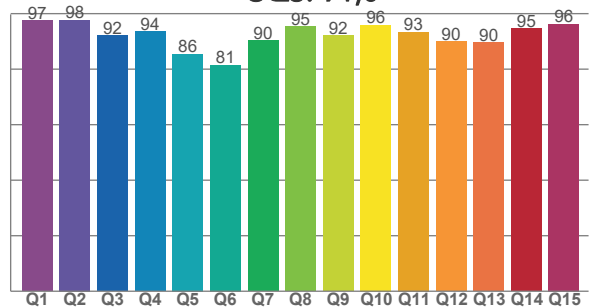
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,1	91,5	91,9	94,7	90,6	84,0	85,8	83,6	89,7	92,9	94,4	91,9	93,6	91,7	90,1	88,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	97,6	92,2	93,5	85,5	81,4	90,2	95,4	92,1	95,9	93,3	89,9	89,5	94,7	96,2

CQS: 91,0



COLOR PARAMETERS

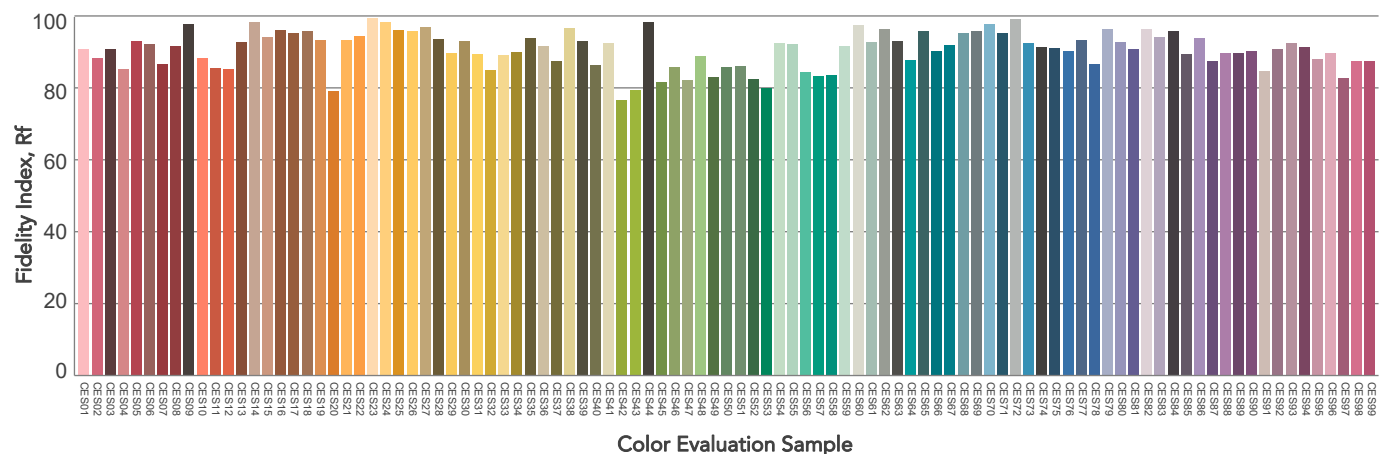
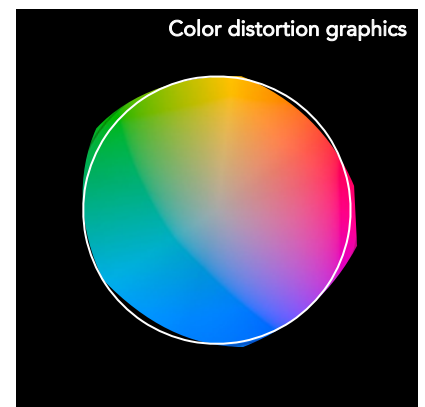
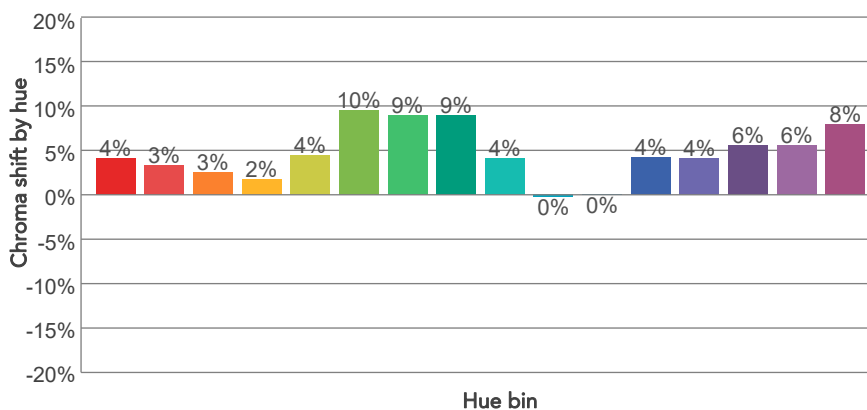
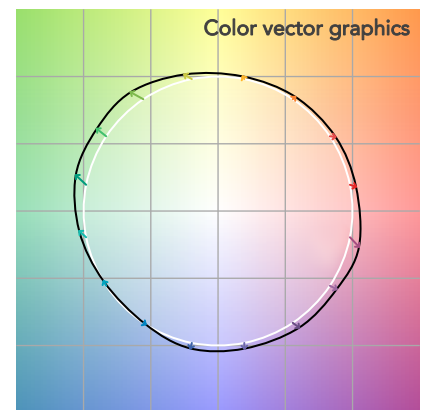
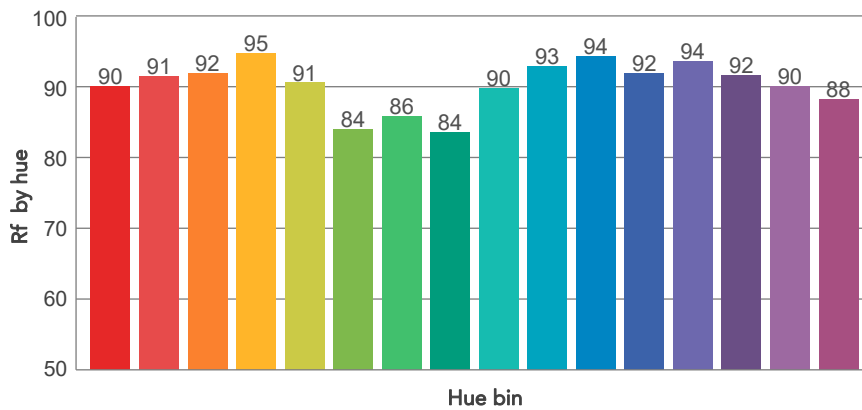
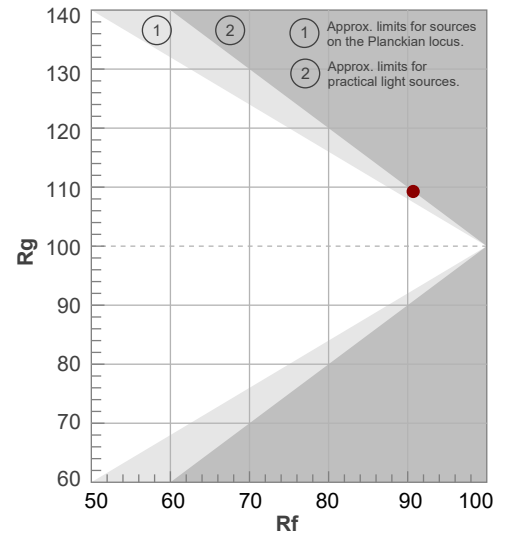
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3195 K	88,0	66,1	90,7	109,3	91,0	83	0,422	0,395	-0,0016

TM30 DETAILS

Rf 90,7
Fidelity index Rf

Rg 109,3
Gammut index

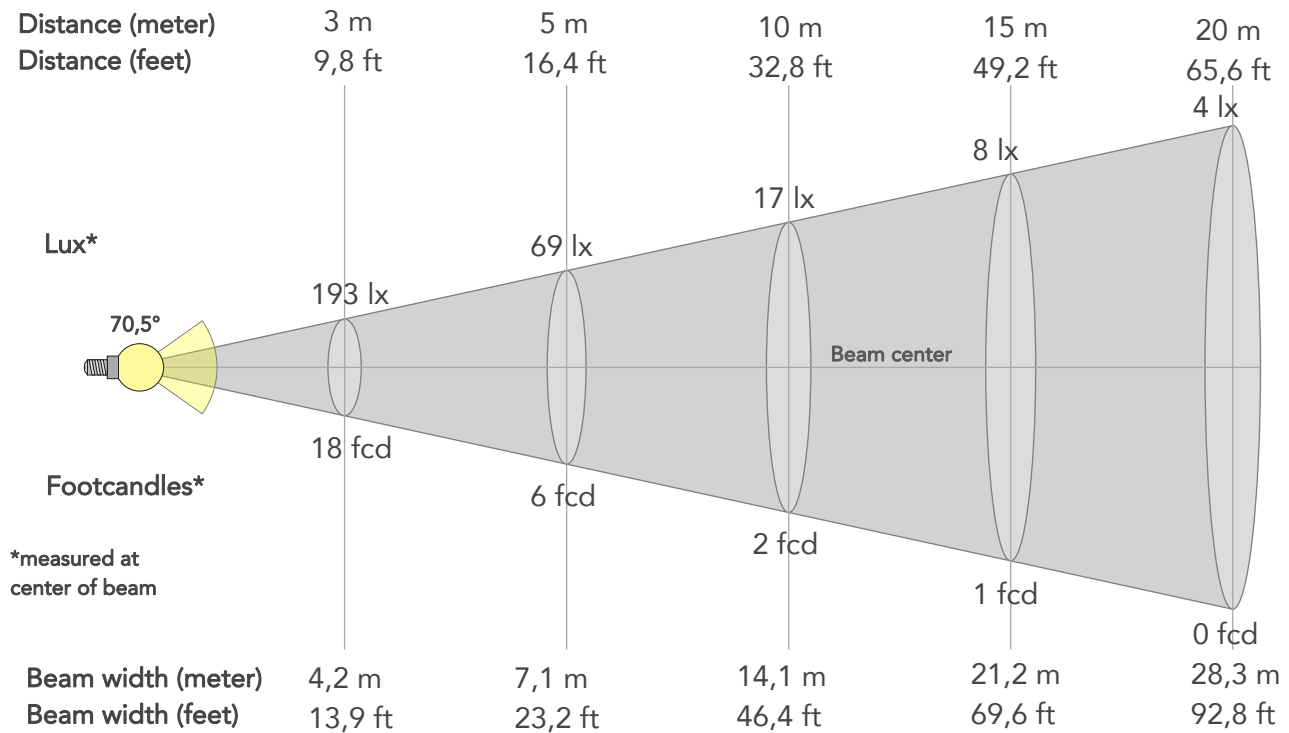
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	4%	-2%
2	91	3%	-3%
3	92	3%	-1%
4	95	2%	2%
5	91	4%	5%
6	84	10%	5%
7	86	9%	-1%
8	84	9%	-6%
9	90	4%	-5%
10	93	0%	-4%
11	94	0%	2%
12	92	4%	0%
13	94	4%	-1%
14	92	6%	2%
15	90	6%	1%
16	88	8%	-6%



BEAM DETAILS



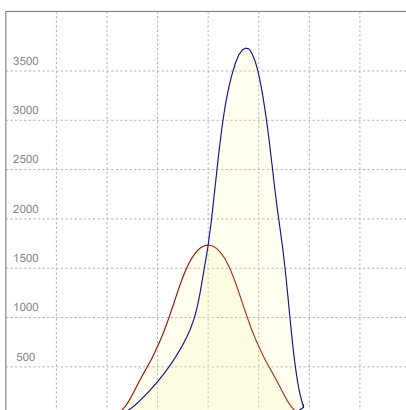
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,5°	130,8°	154,6°	82,6%	56,5%



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	1734lx	433lx	193lx	108lx	69lx	31lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	161fcd	40fcd	18fcd	10fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,2m	5,7m	7,1m	10,6m	14,1m	21,2m	28,3m	35,4m	42,4m	56,6m	70,7m
Beam wid.	4,7ft	9,3ft	13,9ft	18,5ft	23,2ft	34,8ft	46,4ft	69,6ft	92,8ft	116ft	139,2ft	185,6ft	231,9ft

LINEAR DISTRIBUTION DIAGRAM

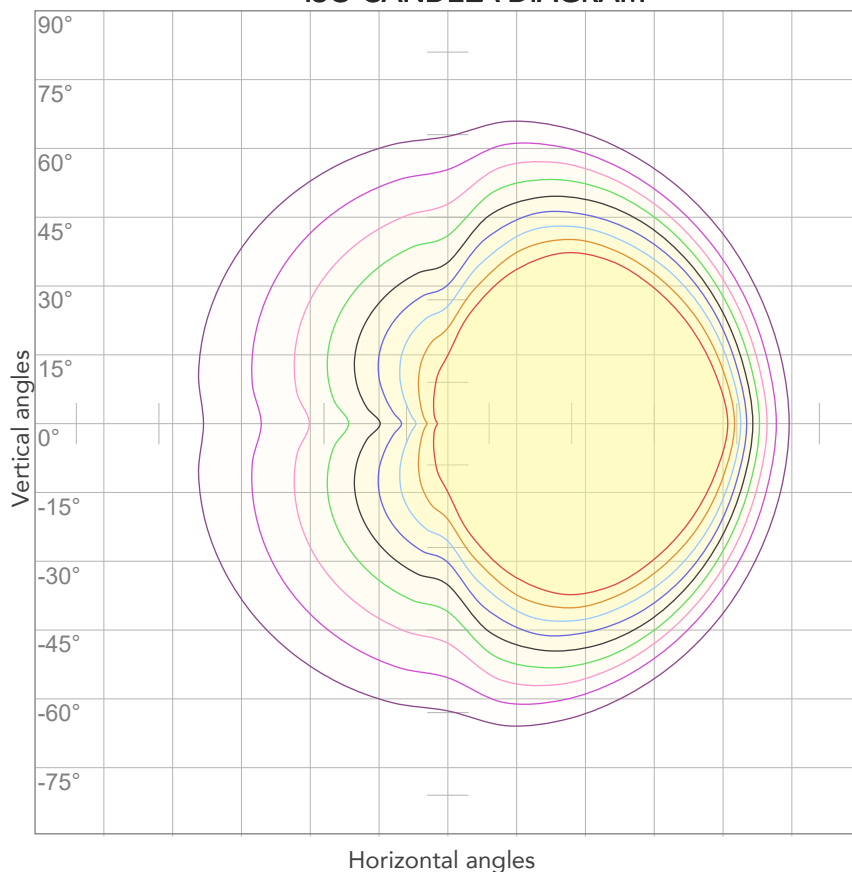


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,641A	144,6W	0,98	36lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



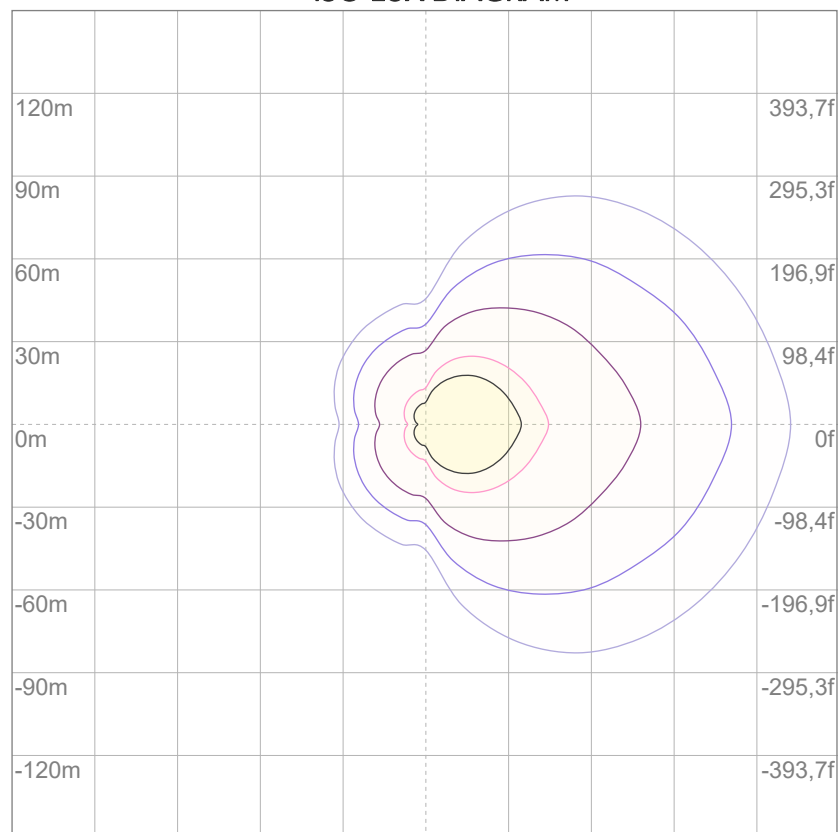
10%	173 cd
20%	347 cd
30%	520 cd
40%	693 cd
50%	867 cd
60%	1040 cd
70%	1214 cd
80%	1387 cd

Conditions:

Number of c-planes: 4

Candela at center: 1734 cd

ISO LUX DIAGRAM



3%	0,520 lx
5%	0,867 lx
10%	1,73 lx
30%	5,20 lx
50%	8,67 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,3 lx

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



Total lumen output:

5748 lm

Peak candela output:

4104 cd

Light quality:

CRI: 82,1

Color temperature:

3991 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

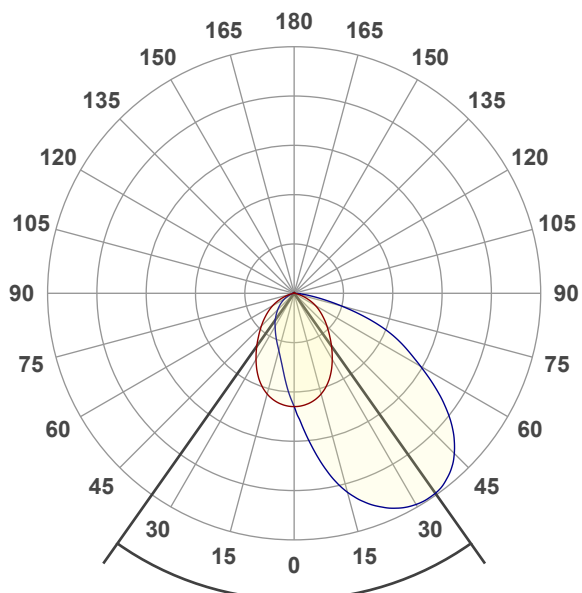
4000K HB

Operator:

Giuseppe della Peruta

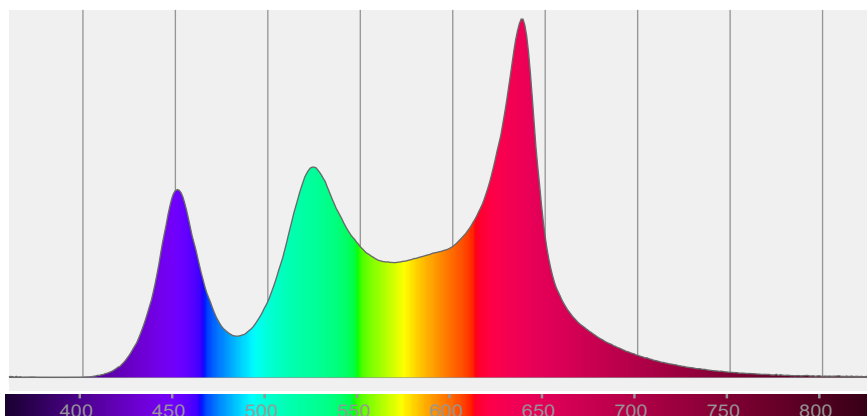
Date and time:

22/09/2025 16:22:05

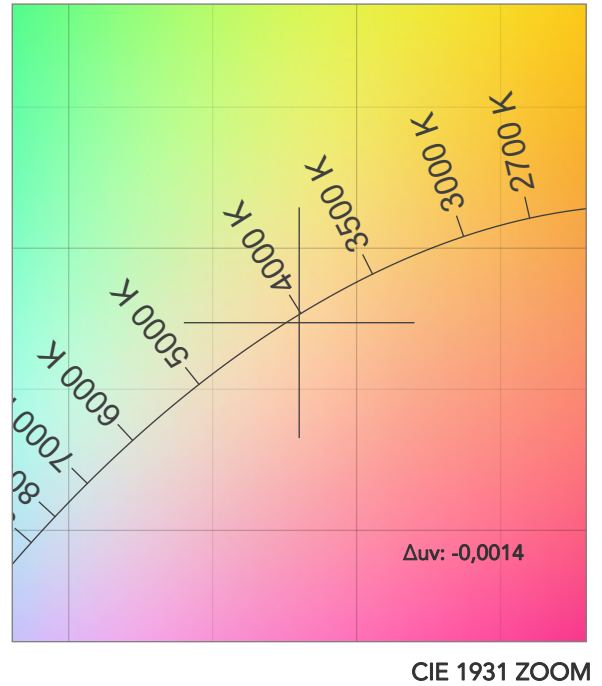
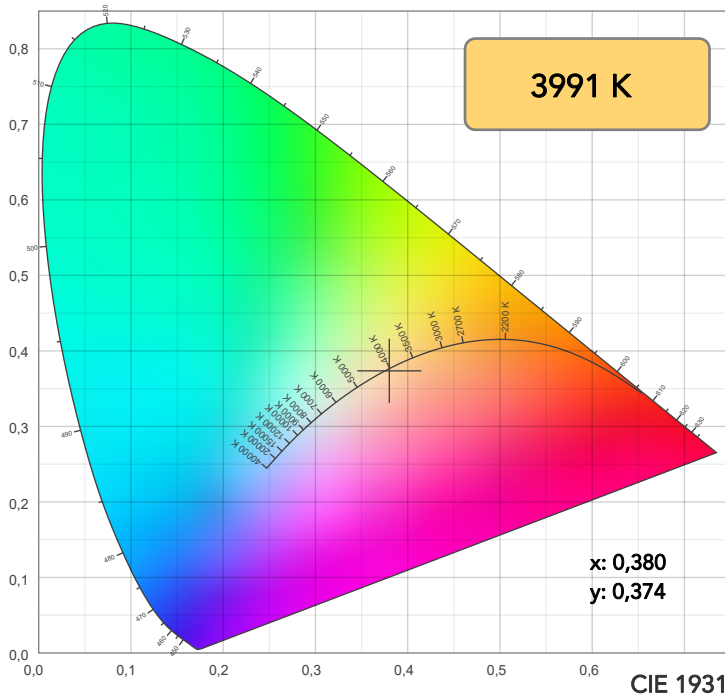


	Blue curve V	Red curve H
Beam angle 50%:	62,6°	78,4°
Field angle 10%:	122,8°	139,2°
Cut off angle 2.5%:	152°	157,4°

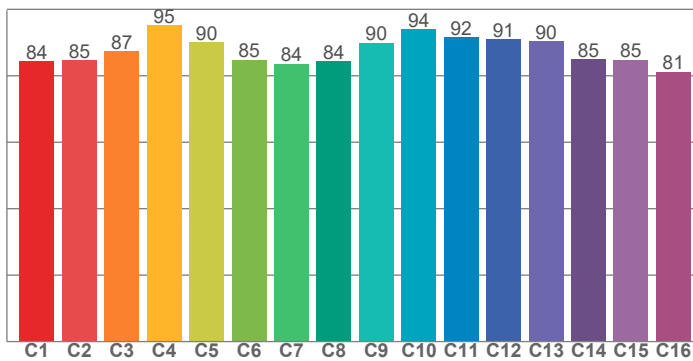
Spectra



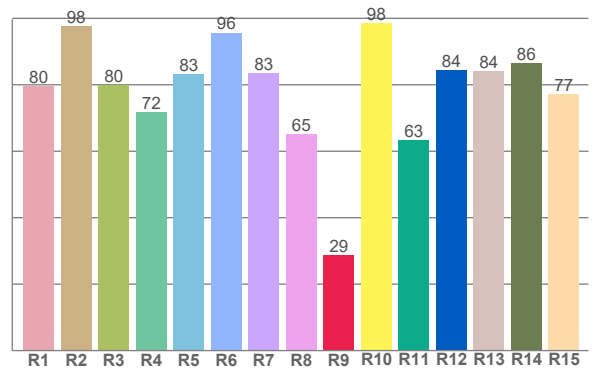
COLOR DETAILS



TM30: 88,0



CRI: 82,1 (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
79,6	97,7	79,8	71,8	83,2	95,7	83,4	65,2	28,8	98,5	63,2	84,5	84,1	86,4	77,2

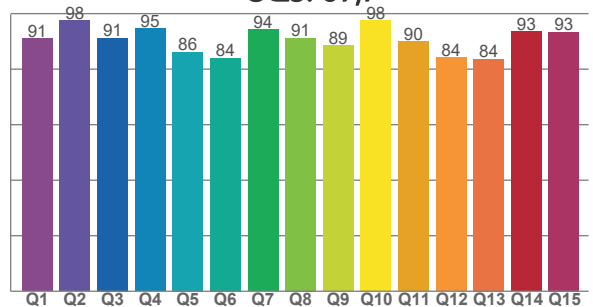
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84,3	84,7	87,4	95,1	90,1	84,8	83,6	84,3	89,9	93,9	91,5	91,1	90,3	85,0	84,9	81,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,1	97,5	91,2	94,6	86,2	84,1	94,3	91,2	88,6	97,6	90,0	84,1	83,7	93,5	93,5

CQS: 89,7



COLOR PARAMETERS

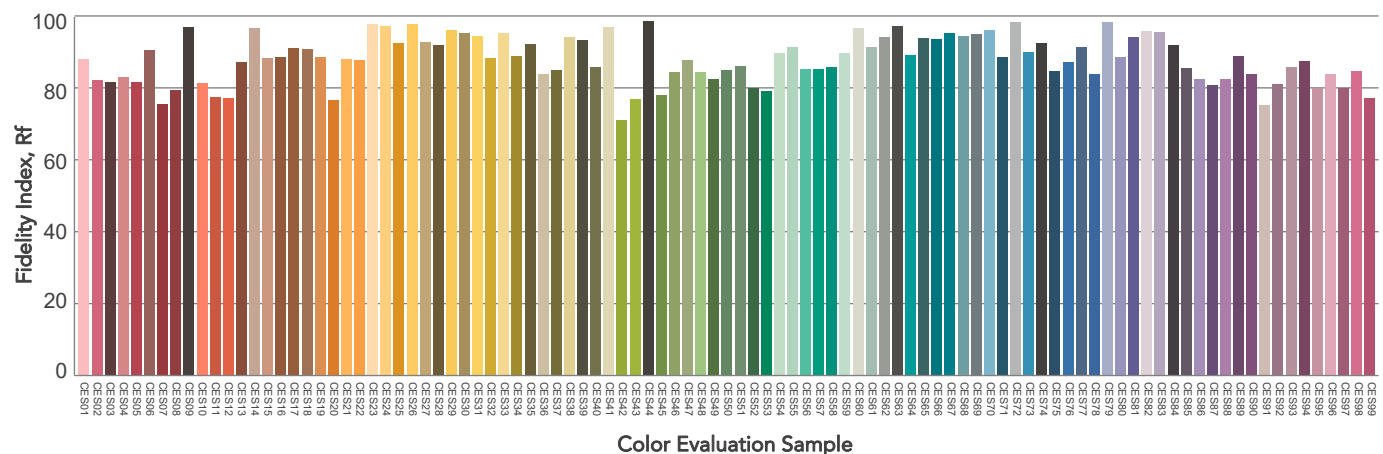
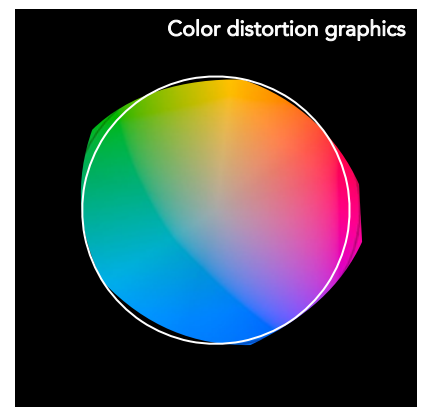
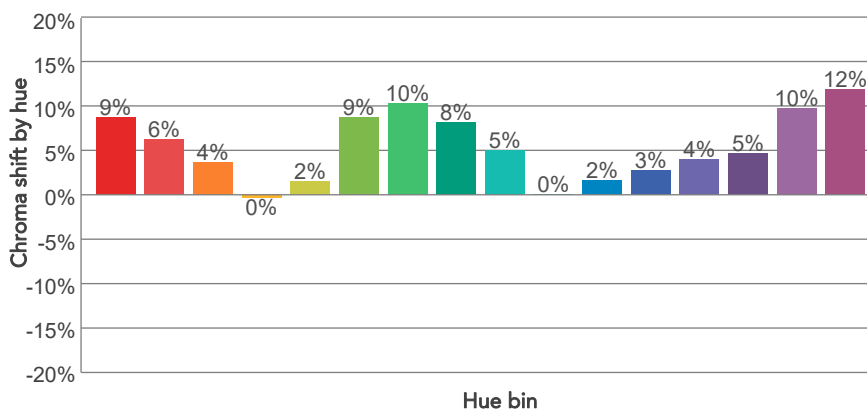
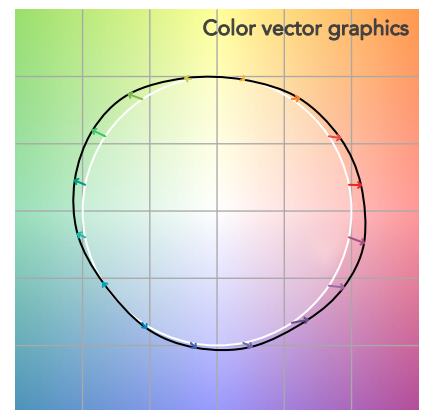
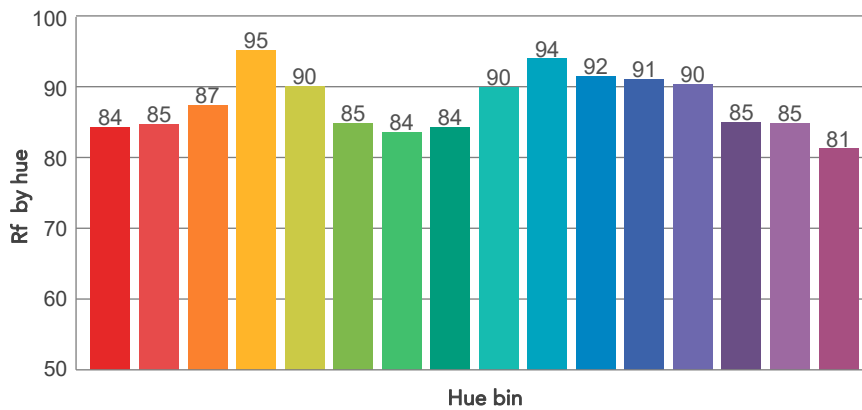
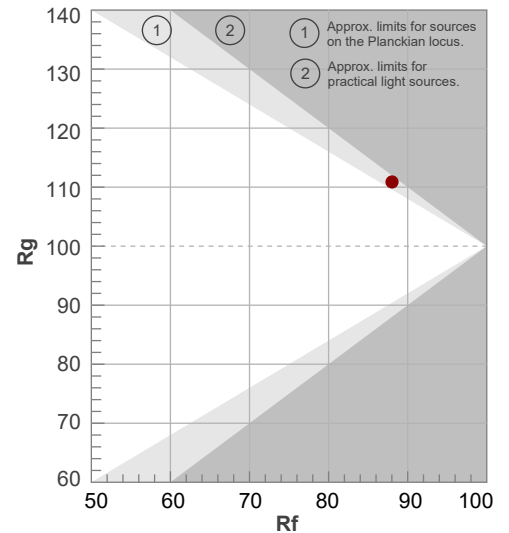
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3991 K	82,1	28,8	88,0	110,9	89,7	80	0,380	0,374	-0,0014

TM30 DETAILS

Rf 88,0
Fidelity index Rf

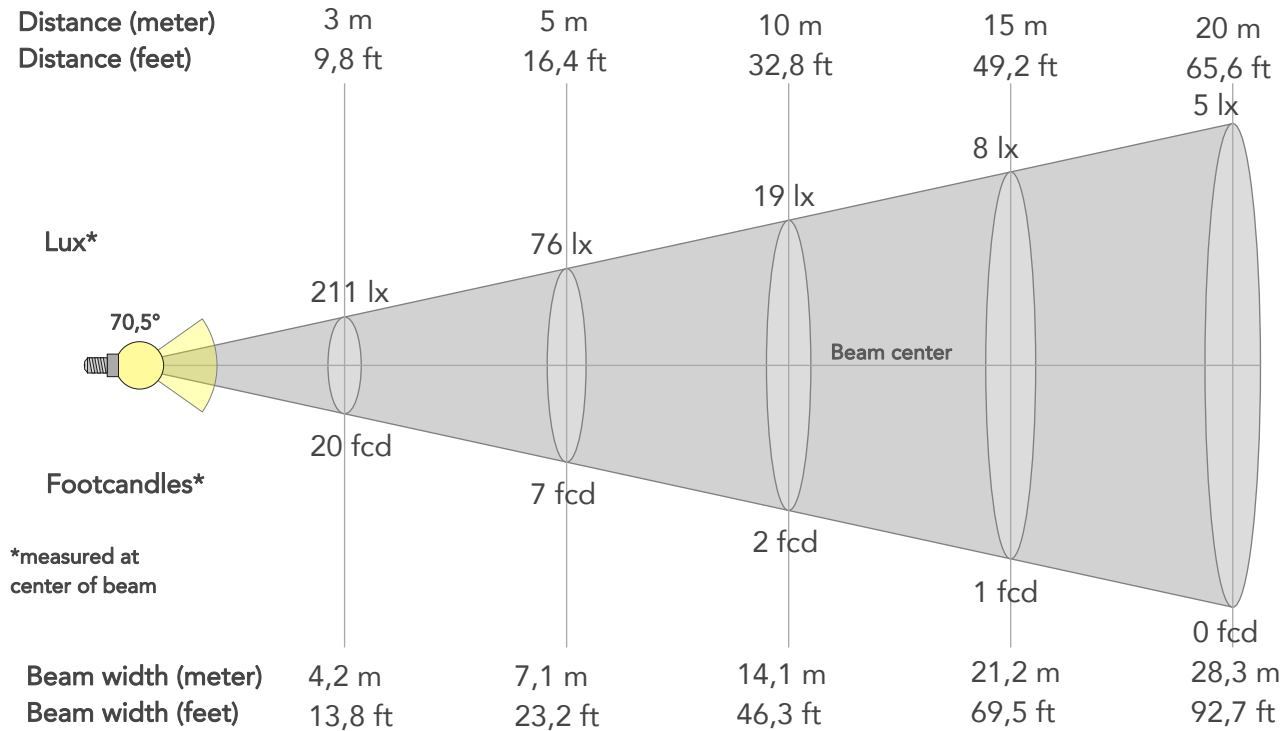
Rg 110,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	9%	-2%
2	85	6%	-6%
3	87	4%	-4%
4	95	0%	-1%
5	90	2%	4%
6	85	9%	6%
7	84	10%	1%
8	84	8%	-2%
9	90	5%	-4%
10	94	0%	-2%
11	92	2%	4%
12	91	3%	4%
13	90	4%	6%
14	85	5%	11%
15	85	10%	5%
16	81	12%	-2%



BEAM DETAILS

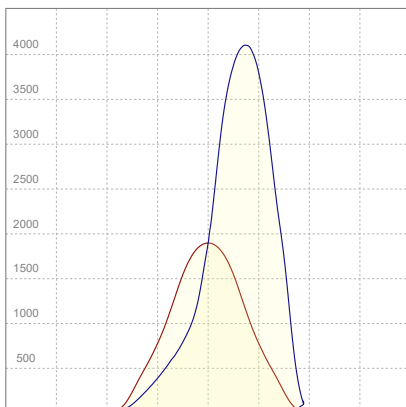
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,5°	131°	154,7°	82,7%	56,6%



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	1897lx	474lx	211lx	119lx	76lx	34lx	19lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	176fcd	44fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,2m	5,7m	7,1m	10,6m	14,1m	21,2m	28,3m	35,3m	42,4m	56,5m	70,6m
Beam wid.	4,7ft	9,3ft	13,8ft	18,5ft	23,2ft	34,8ft	46,3ft	69,5ft	92,7ft	115,8ft	139ft	185,3ft	231,7ft

LINEAR DISTRIBUTION DIAGRAM

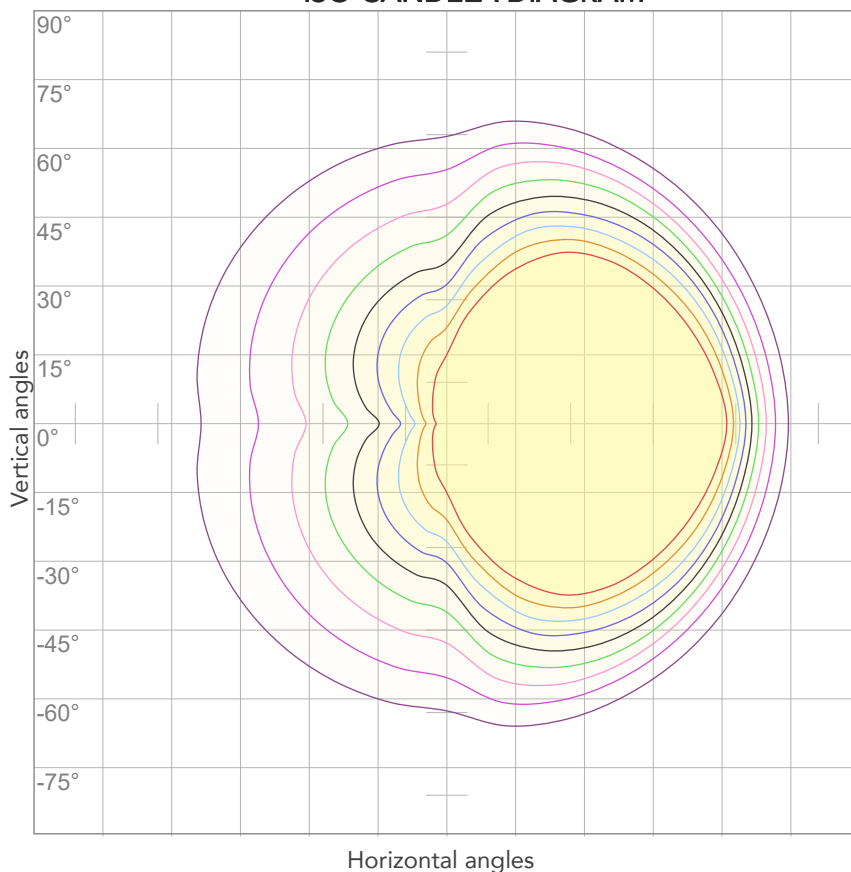


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
230V	0,665A	150,4W	0,99	38lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



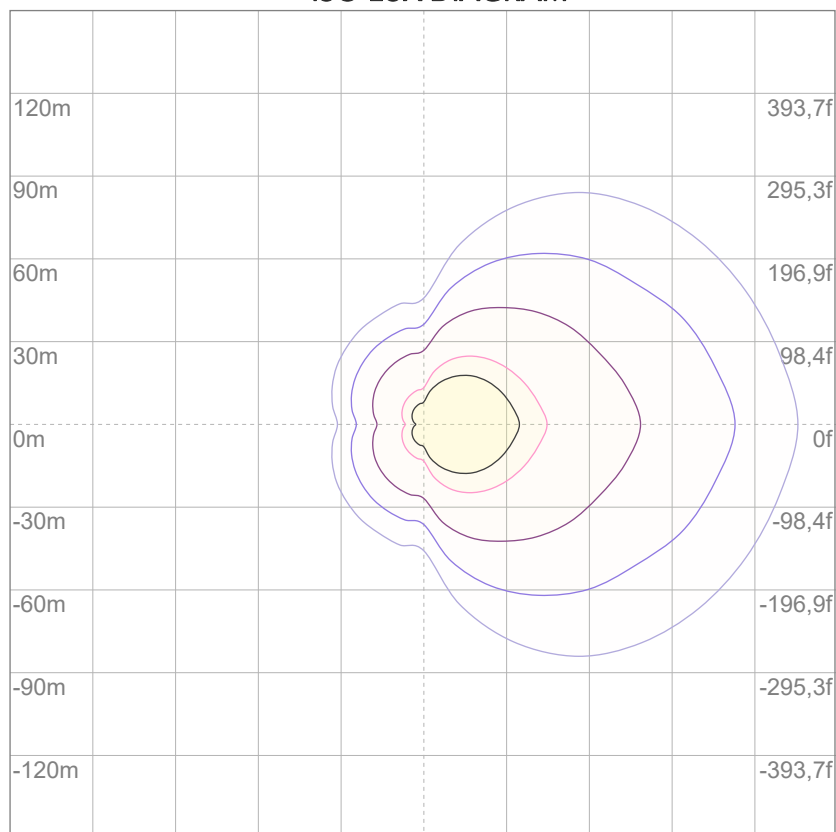
10%	190 cd
20%	379 cd
30%	569 cd
40%	759 cd
50%	949 cd
60%	1138 cd
70%	1328 cd
80%	1518 cd

Conditions:

Number of c-planes: 4

Candela at center: 1897 cd

ISO LUX DIAGRAM



3%	0,569 lx
5%	0,949 lx
10%	1,90 lx
30%	5,69 lx
50%	9,49 lx

Conditions:

Number of c-planes: 4

Lux at center: 19,0 lx

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



Total lumen output:

6210 lm

Peak candela output:

4413 cd

Light quality:

CRI: 81,9

Color temperature:

5598 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

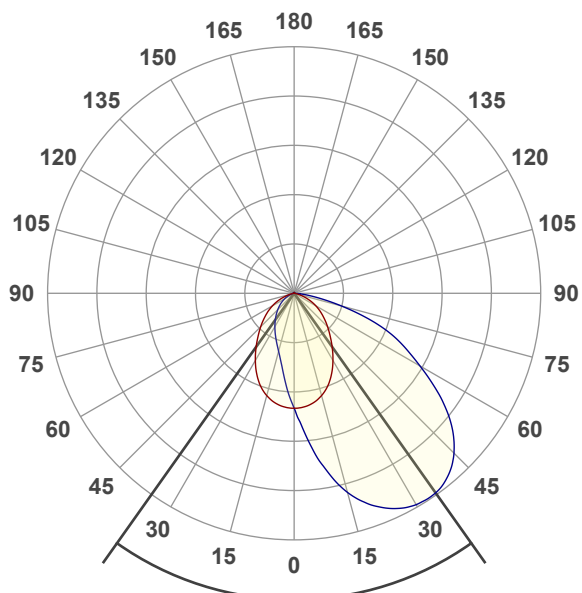
5600K HB

Operator:

Giuseppe della Peruta

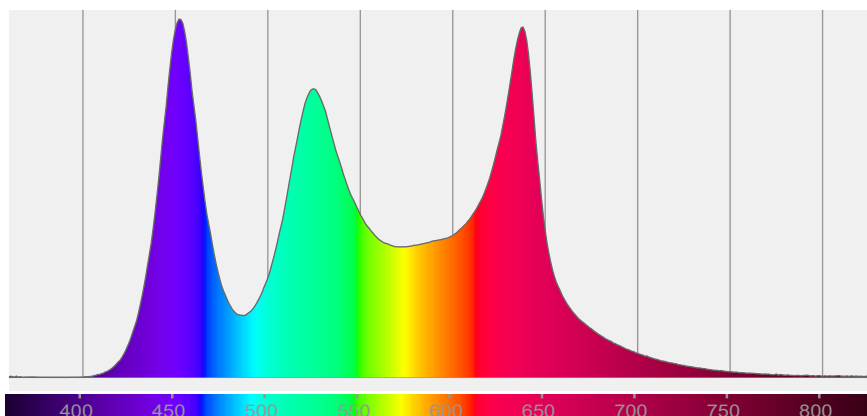
Date and time:

22/09/2025 16:18:08

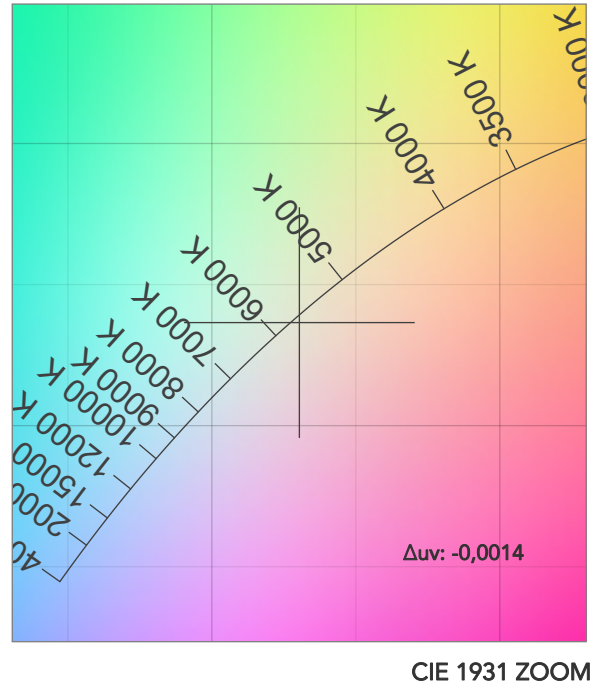
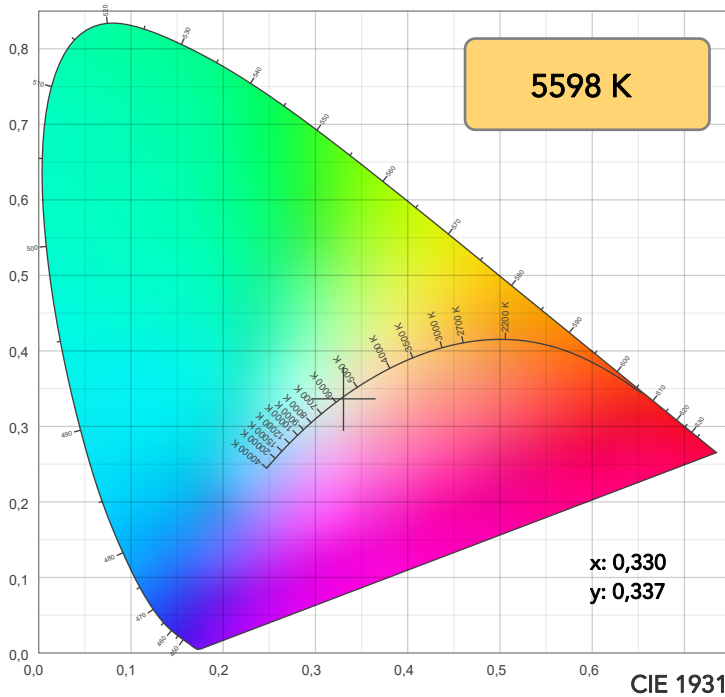


	Blue curve V	Red curve H
Beam angle 50%:	62,7°	78,6°
Field angle 10%:	122,8°	139,1°
Cut off angle 2.5%:	152°	157,4°

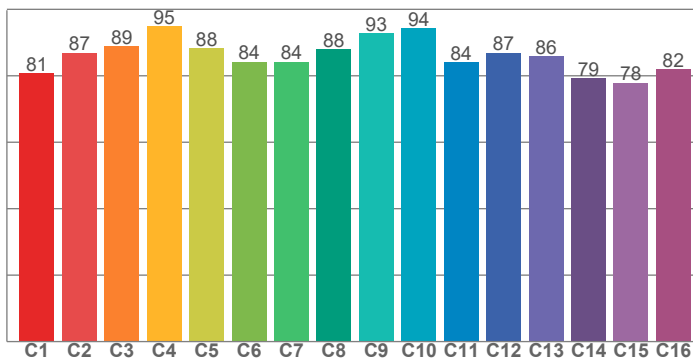
Spectra



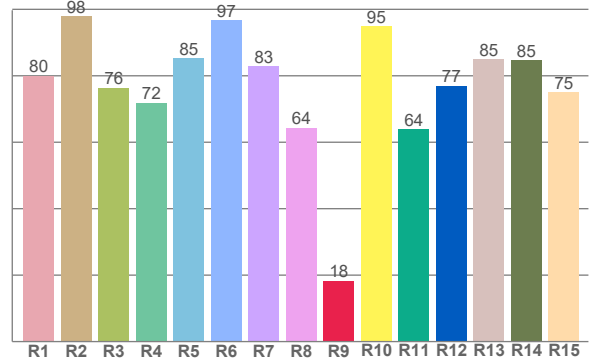
COLOR DETAILS



TM30: 86,5



CRI: 81,9 (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
80,0	97,9	76,4	71,9	85,3	96,8	82,8	64,4	18,3	94,8	63,9	77,0	85,1	84,7	75,1

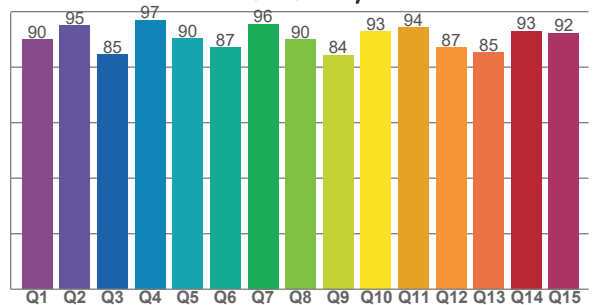
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,7	86,9	88,8	94,9	88,2	84,3	84,2	87,9	92,8	94,3	84,0	86,9	85,8	79,2	77,9	81,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,9	95,0	84,6	97,0	90,4	87,1	95,5	90,0	84,3	92,9	94,3	87,0	85,3	93,1	92,3

CQS: 89,8



COLOR PARAMETERS

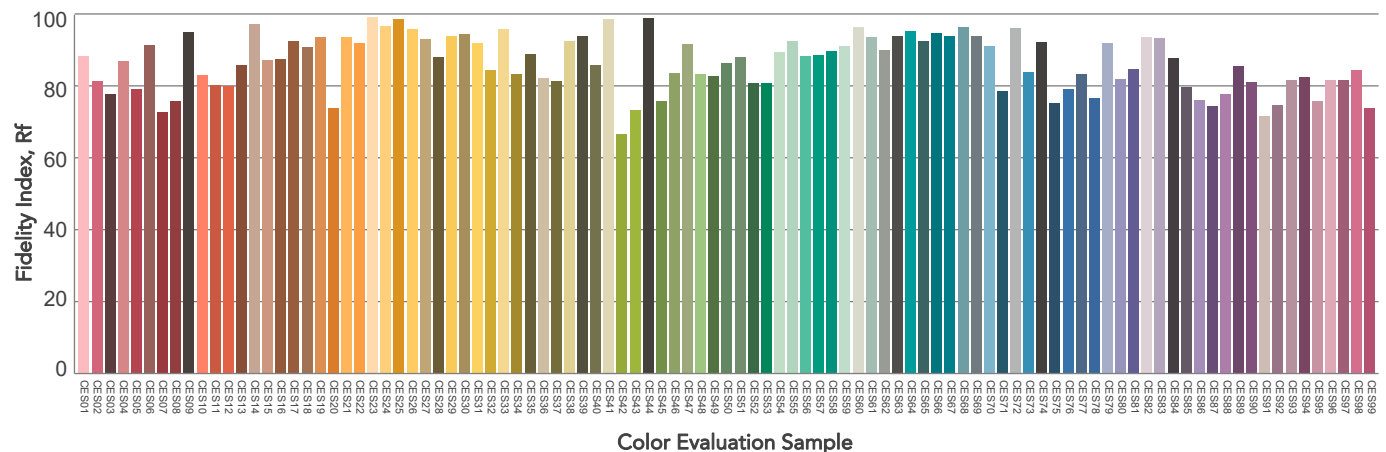
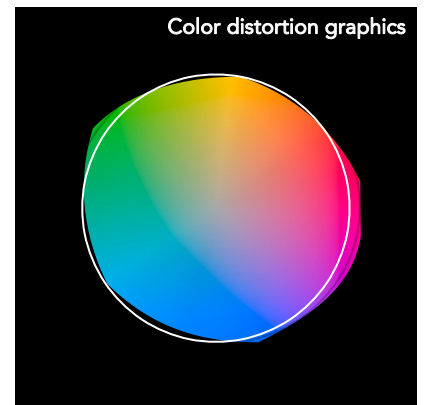
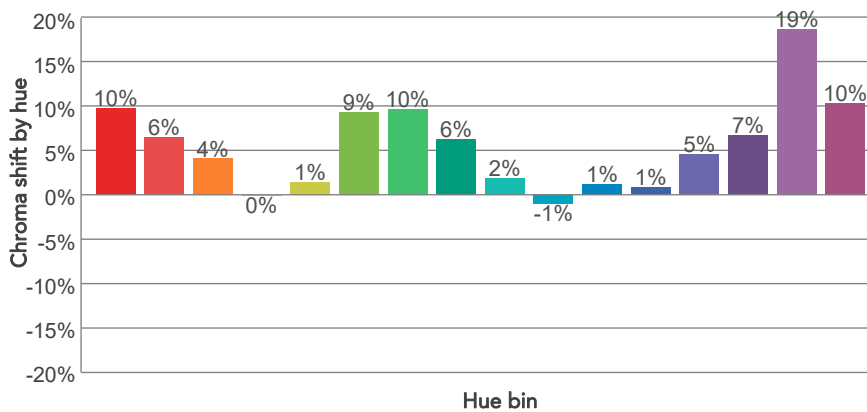
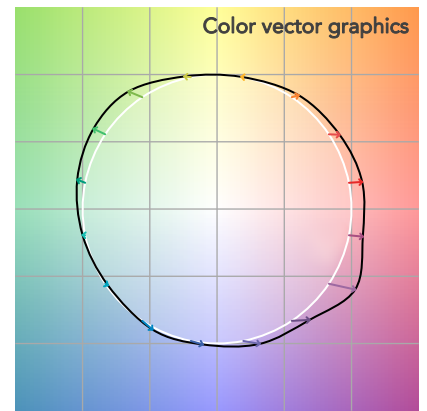
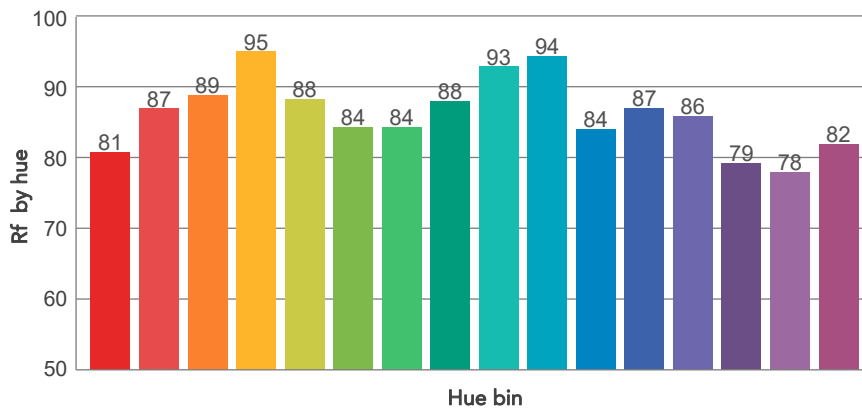
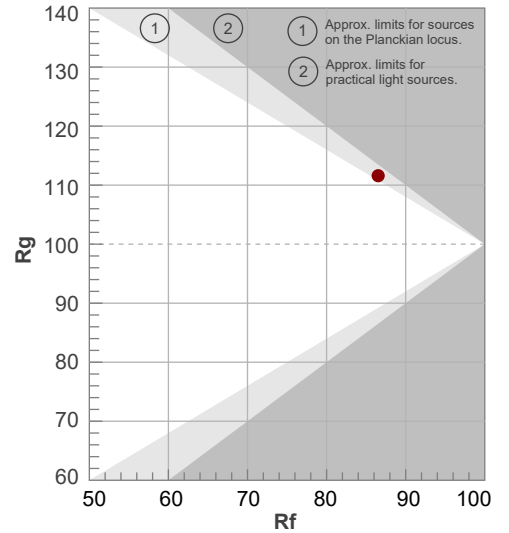
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5598 K	81,9	18,3	86,5	111,6	89,8	82	0,330	0,337	-0,0014

TM30 DETAILS

Rf 86,5
Fidelity index Rf

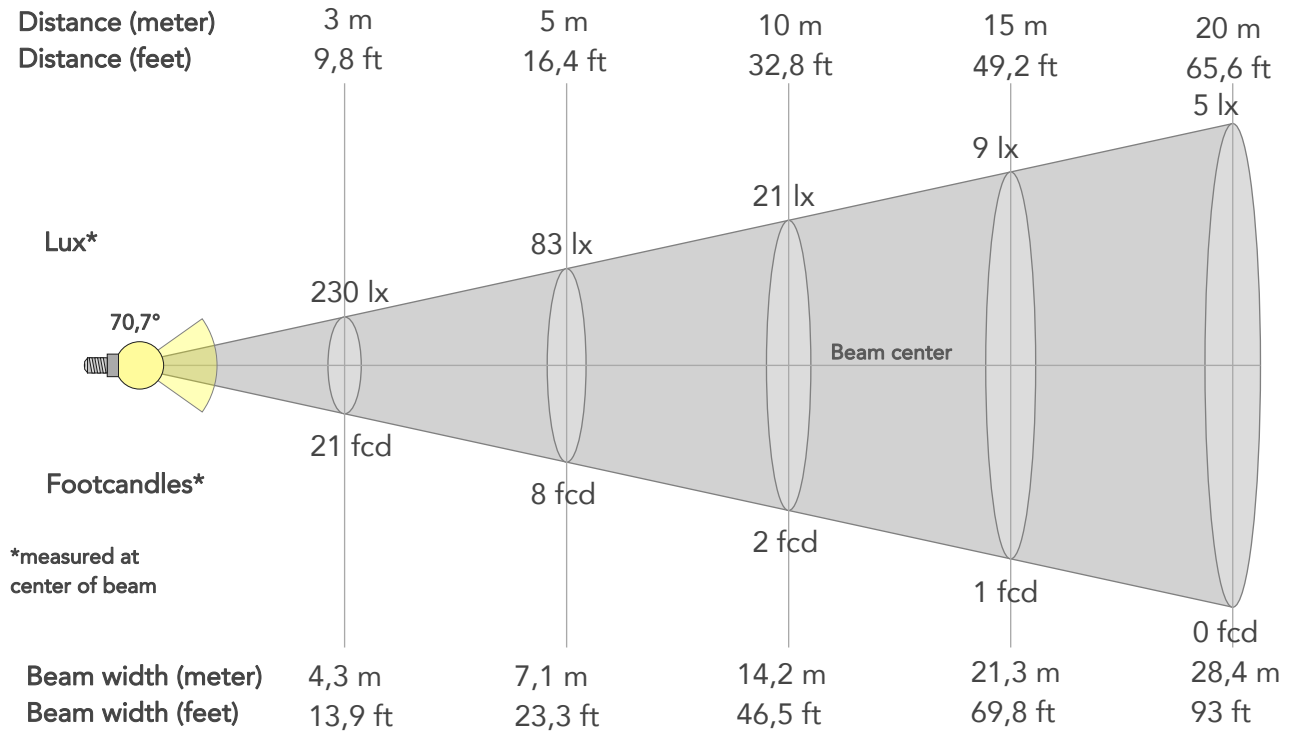
Rg 111,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	10%	-1%
2	87	6%	-5%
3	89	4%	-3%
4	95	0%	1%
5	88	1%	5%
6	84	9%	6%
7	84	10%	1%
8	88	6%	-1%
9	93	2%	-1%
10	94	-1%	2%
11	84	1%	10%
12	87	1%	9%
13	86	5%	12%
14	79	7%	11%
15	78	19%	7%
16	82	10%	1%



BEAM DETAILS

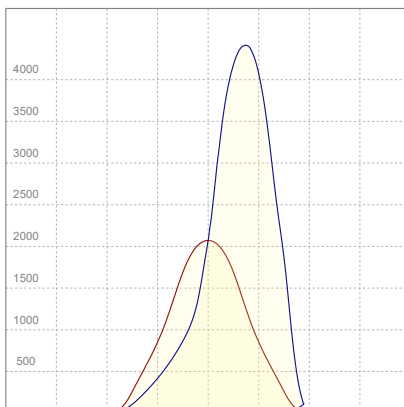
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,7°	131°	154,7°	82,7%	56,7%



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	2070lx	517lx	230lx	129lx	83lx	37lx	21lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	192fcd	48fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,3m	5,7m	7,1m	10,6m	14,2m	21,3m	28,4m	35,4m	42,5m	56,7m	70,9m
Beam wid.	4,7ft	9,4ft	13,9ft	18,6ft	23,3ft	34,9ft	46,5ft	69,8ft	93ft	116,3ft	139,5ft	186ft	232,5ft

LINEAR DISTRIBUTION DIAGRAM

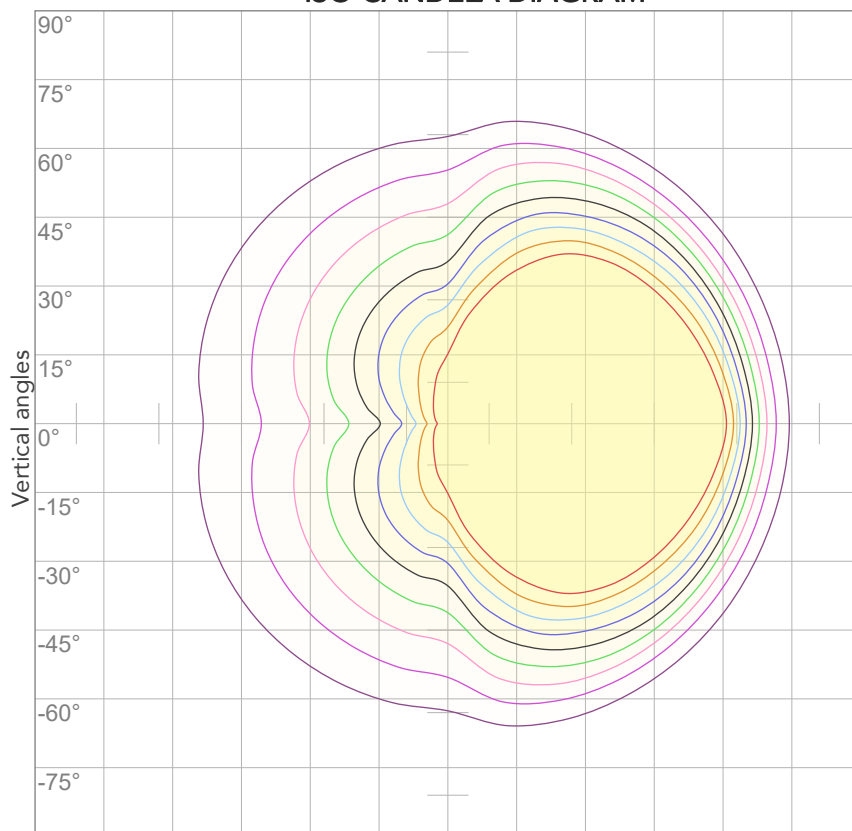


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,776A	175,7W	0,99	35lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



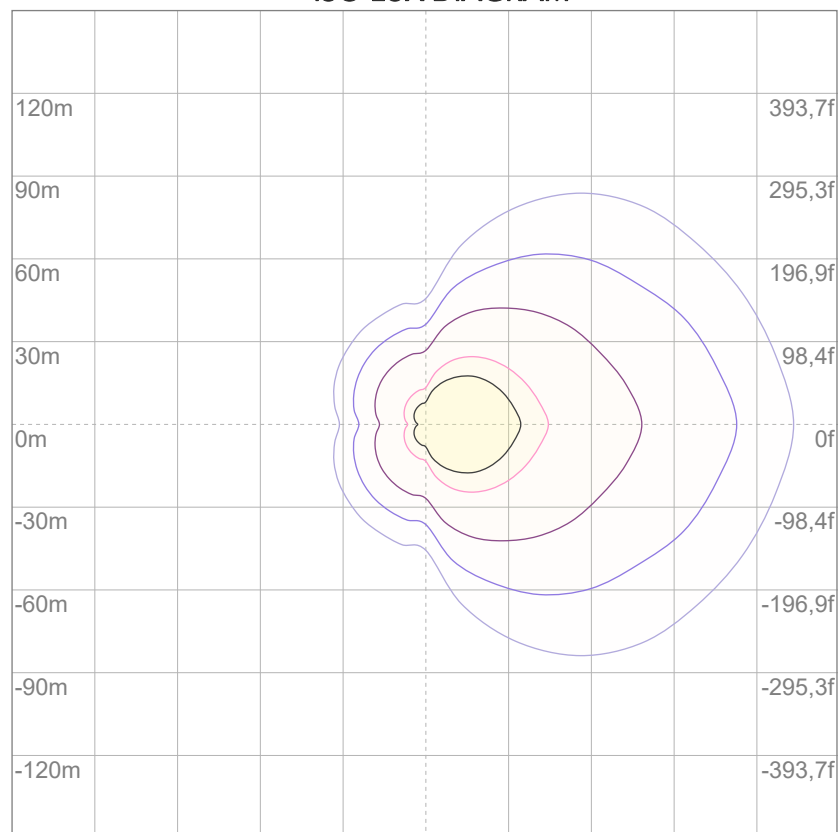
10%	207 cd
20%	414 cd
30%	621 cd
40%	828 cd
50%	1035 cd
60%	1242 cd
70%	1449 cd
80%	1656 cd

Conditions:

Number of c-planes: 4

Candela at center: 2070 cd

ISO LUX DIAGRAM



3%	0,621 lx
5%	1,03 lx
10%	2,07 lx
30%	6,21 lx
50%	10,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,7 lx

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



Total lumen output:

5767 lm

Peak candela output:

4105 cd

Light quality:

CRI: 91,1

Color temperature:

6030 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

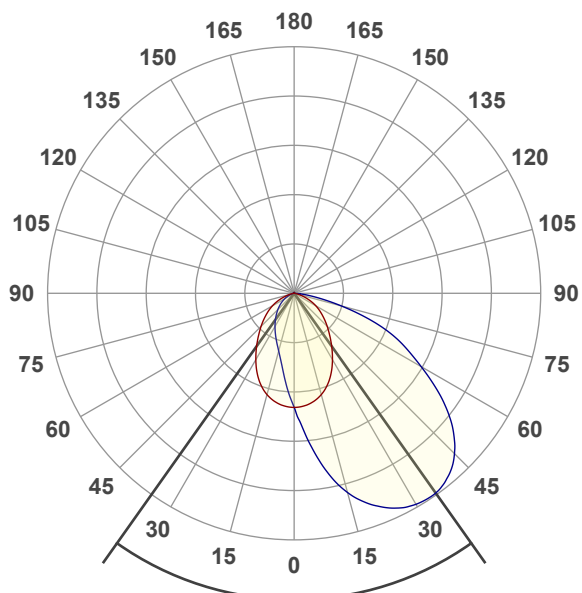
6000K HB

Operator:

Giuseppe della Peruta

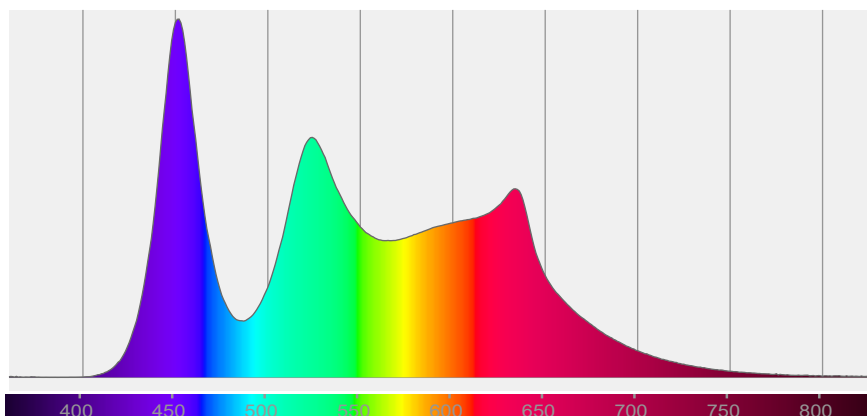
Date and time:

22/09/2025 16:00:30

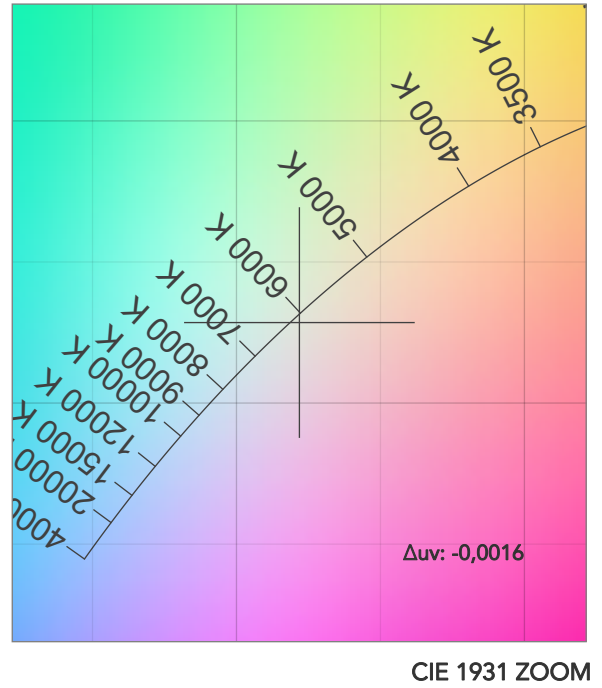
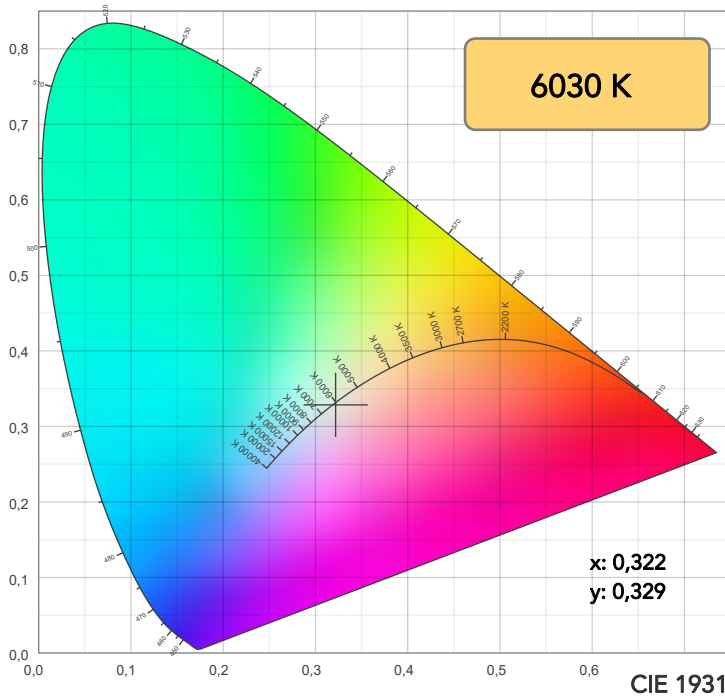


	Blue curve V	Red curve H
Beam angle 50%:	62,9°	78,4°
Field angle 10%:	122,6°	139,4°
Cut off angle 2.5%:	151,9°	157,3°

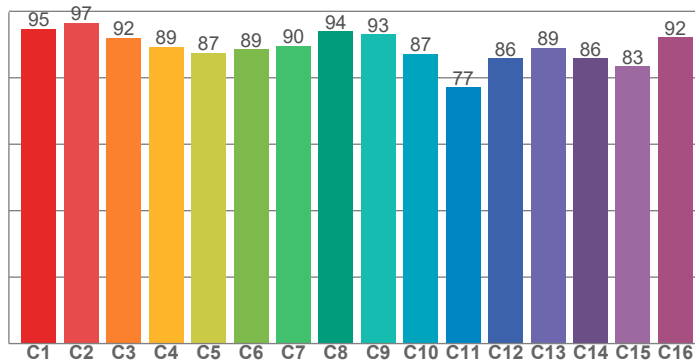
Spectra



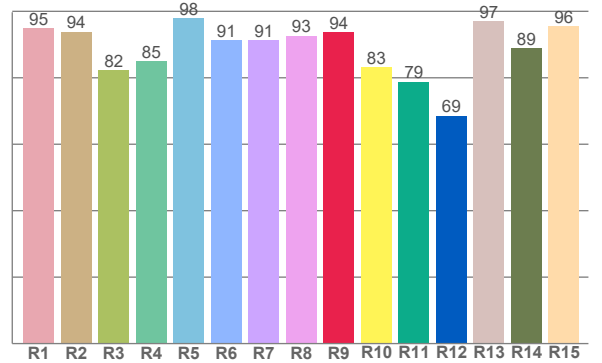
COLOR DETAILS



TM30: 89,0



CRI: 91,1 (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
94,8	93,9	82,4	84,9	98,0	91,2	91,3	92,7	93,8	83,3	78,8	68,6	97,0	88,9	95,6

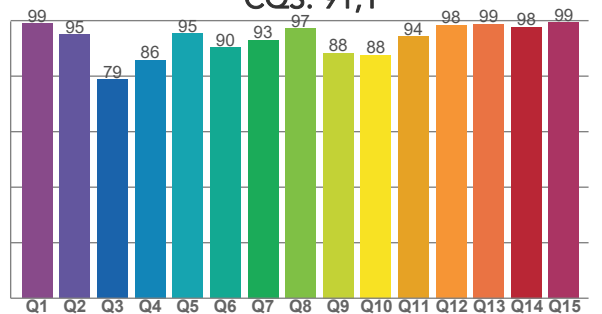
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,6	92,0	89,3	87,5	88,6	89,6	93,9	93,1	87,2	77,2	85,8	89,1	85,8	83,4	92,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,0	95,0	78,9	85,9	95,3	90,3	93,0	97,2	88,3	87,6	94,3	98,4	98,8	97,8	99,4

CQS: 91,1



COLOR PARAMETERS

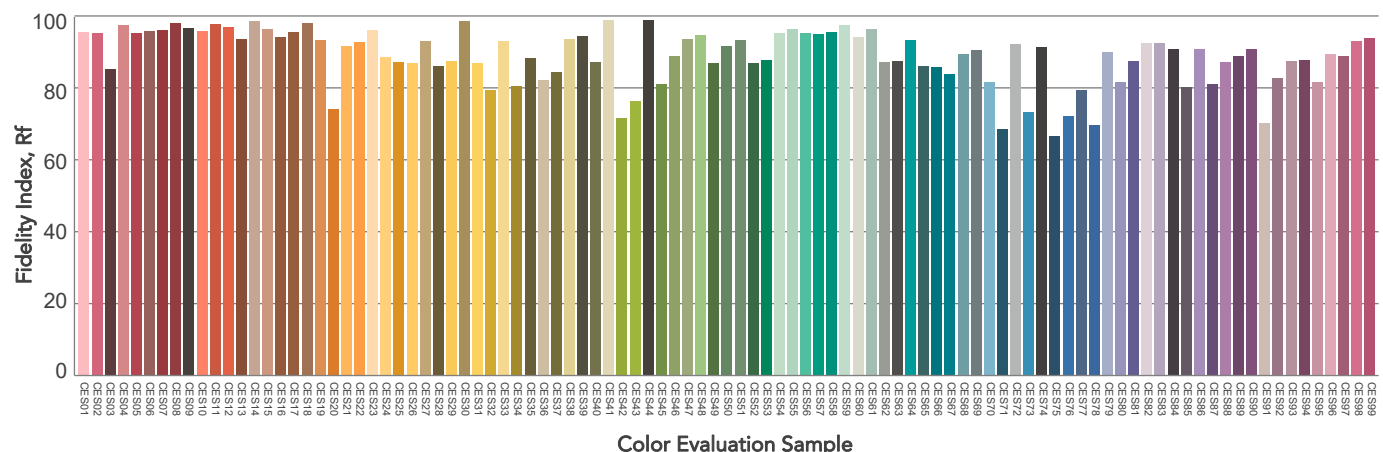
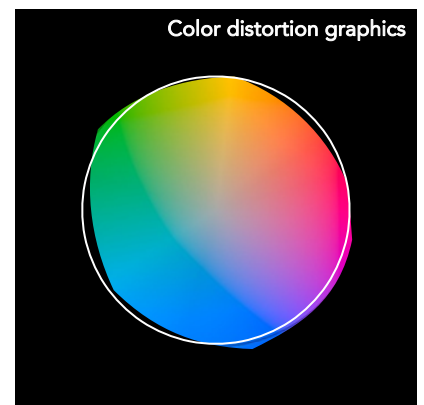
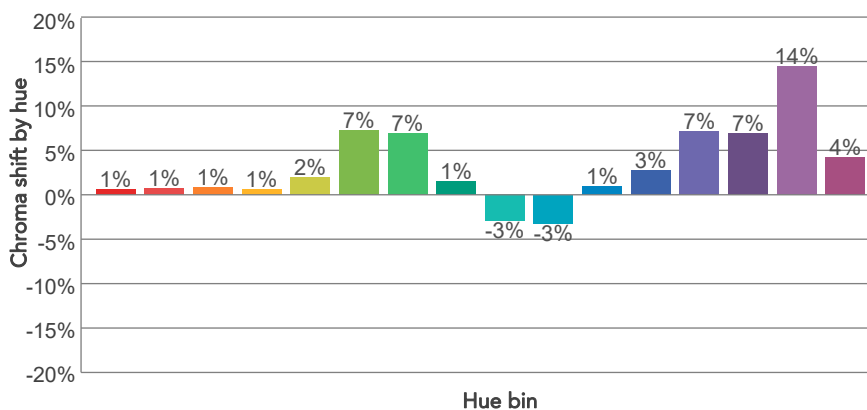
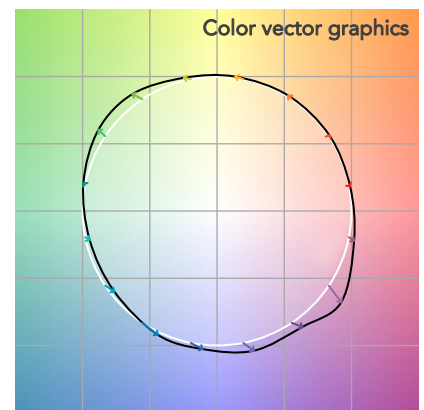
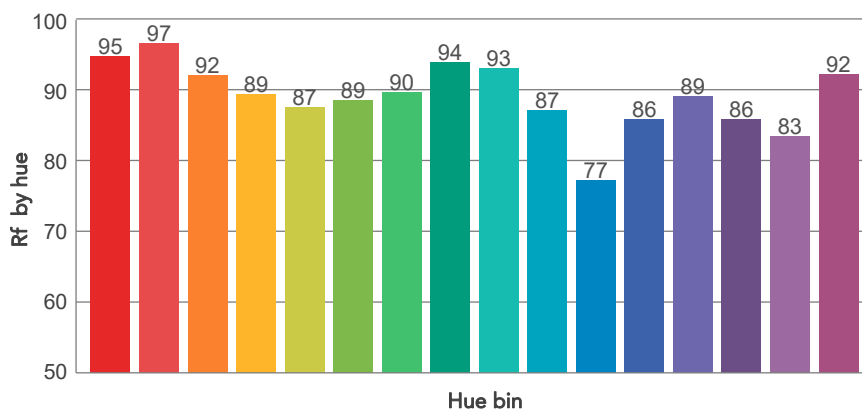
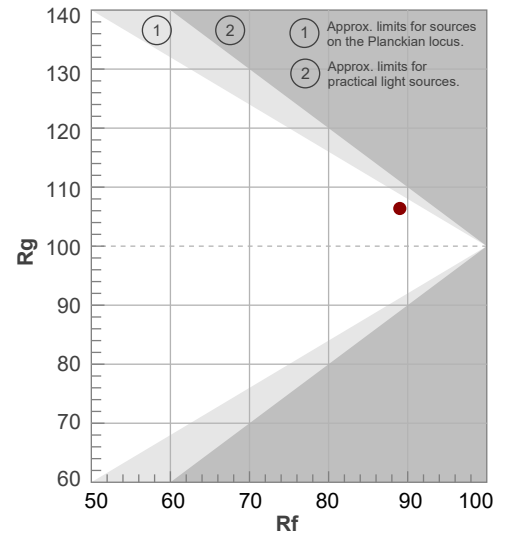
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6030 K	91,1	93,8	89,0	106,4	91,1	90	0,322	0,329	-0,0016

TM30 DETAILS

Rf 89,0
Fidelity index Rf

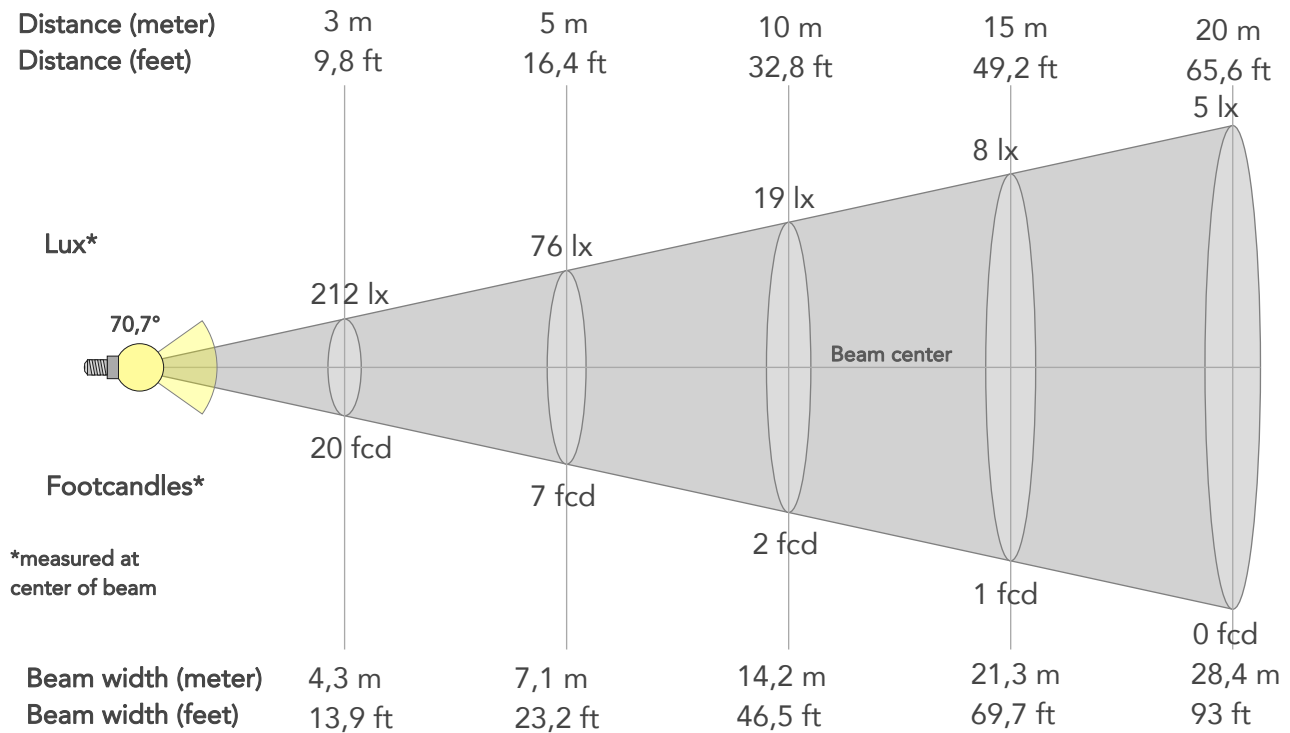
Rg 106,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-1%
2	97	1%	0%
3	92	1%	4%
4	89	1%	6%
5	87	2%	5%
6	89	7%	4%
7	90	7%	-1%
8	94	1%	-1%
9	93	-3%	3%
10	87	-3%	7%
11	77	1%	14%
12	86	3%	9%
13	89	7%	7%
14	86	7%	5%
15	83	14%	-5%
16	92	4%	-2%



BEAM DETAILS

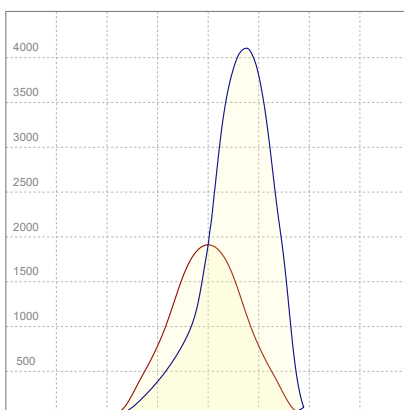
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,7°	131°	154,6°	82,6%	56,5%



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	1911lx	478lx	212lx	119lx	76lx	34lx	19lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	178fcd	44fcd	20fcd	11fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,3m	5,7m	7,1m	10,6m	14,2m	21,3m	28,4m	35,4m	42,5m	56,7m	70,9m
Beam wid.	4,7ft	9,4ft	13,9ft	18,6ft	23,2ft	34,9ft	46,5ft	69,7ft	93ft	116,2ft	139,5ft	186ft	232,5ft

LINEAR DISTRIBUTION DIAGRAM

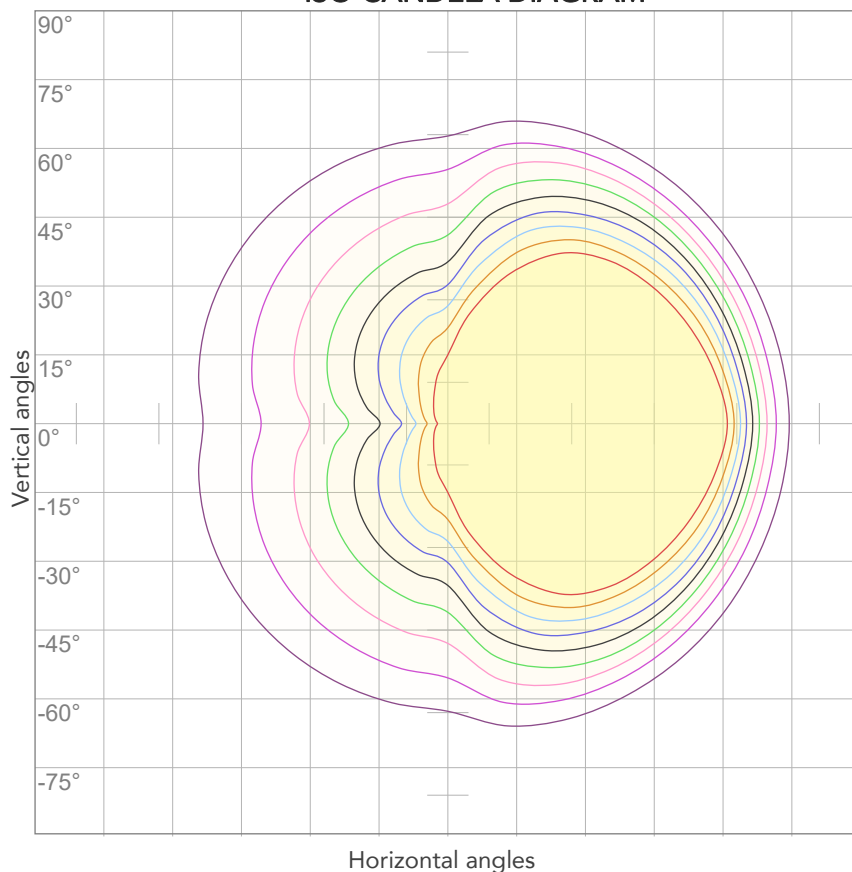


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,619A	139,7W	0,98	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



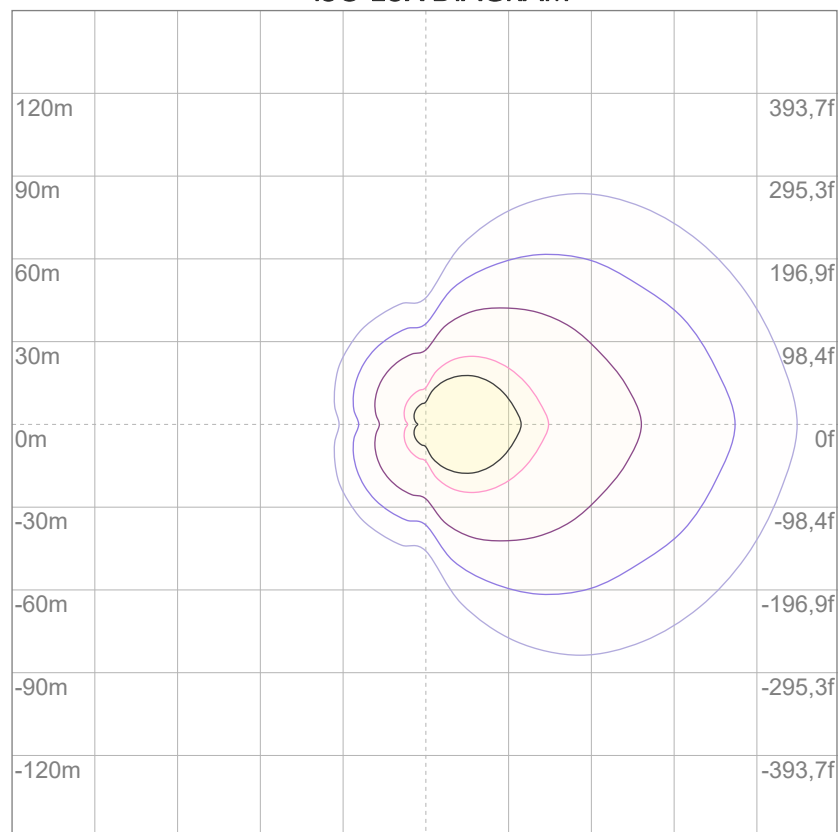
10%	191 cd
20%	382 cd
30%	573 cd
40%	765 cd
50%	956 cd
60%	1147 cd
70%	1338 cd
80%	1529 cd

Conditions:

Number of c-planes: 4

Candela at center: 1911 cd

ISO LUX DIAGRAM



3%	0,573 lx
5%	0,956 lx
10%	1,91 lx
30%	5,73 lx
50%	9,56 lx

Conditions:

Number of c-planes: 4

Lux at center: 19,1 lx

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