

Photometric Test Report



EclExpoFlood 150IPFC

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

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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:

5336 lm

Peak candela output:

3795 cd

Light quality:

CRI: 91,8

Color temperature:

5515 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

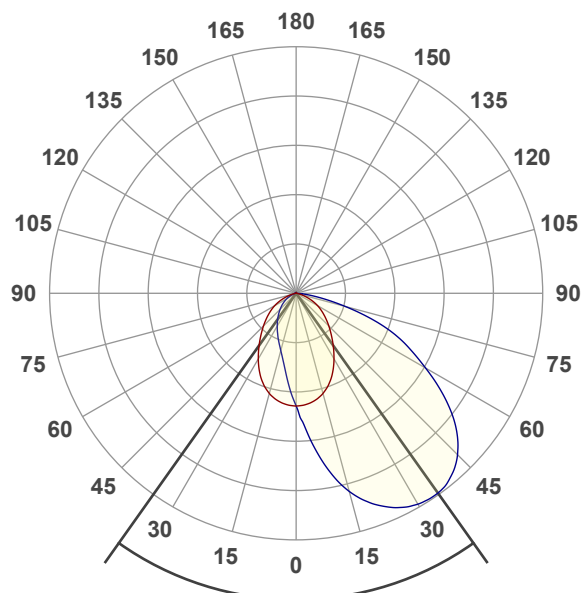
Full On HQ

Operator:

Giuseppe della Peruta

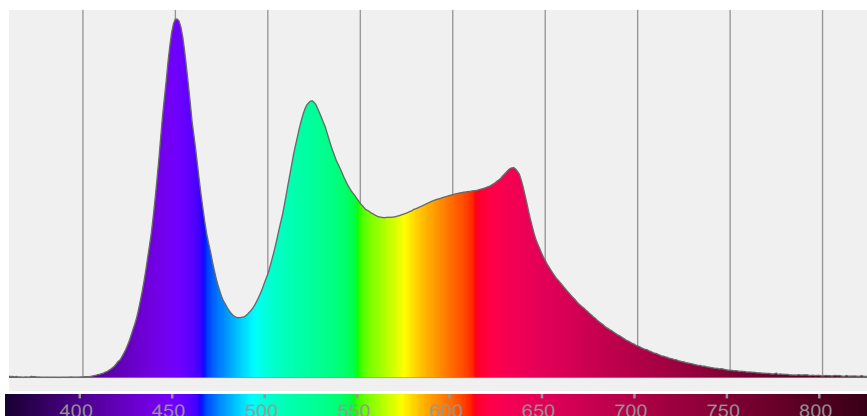
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22/09/2025 13:16:29

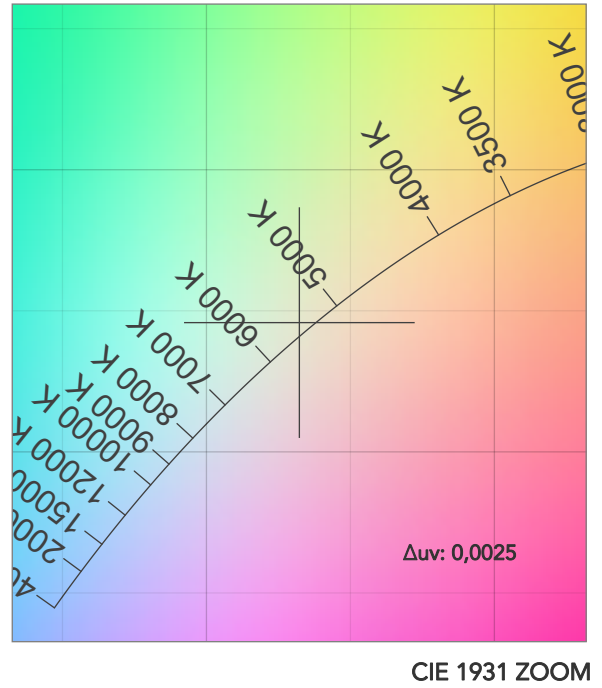
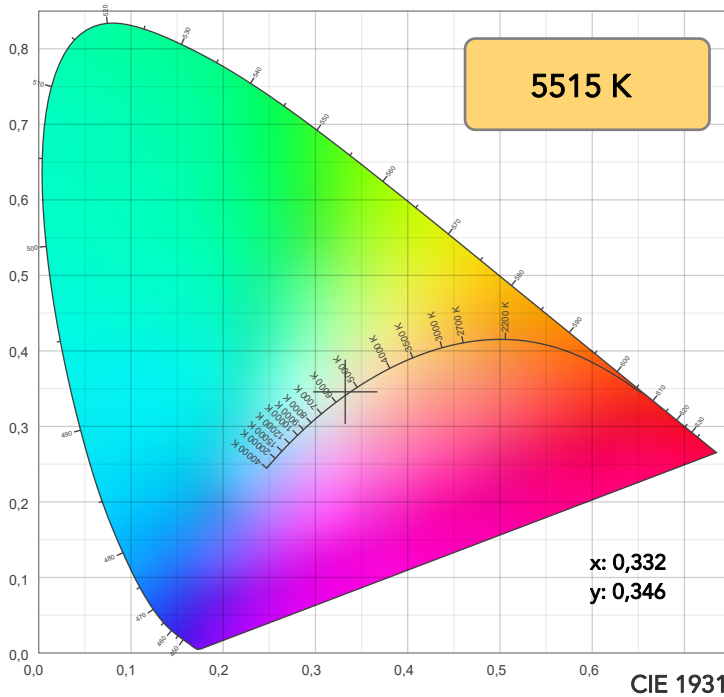


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	78,4°
Field angle 10%:	122,4°	139,3°
Cut off angle 2.5%:	151,9°	157,3°

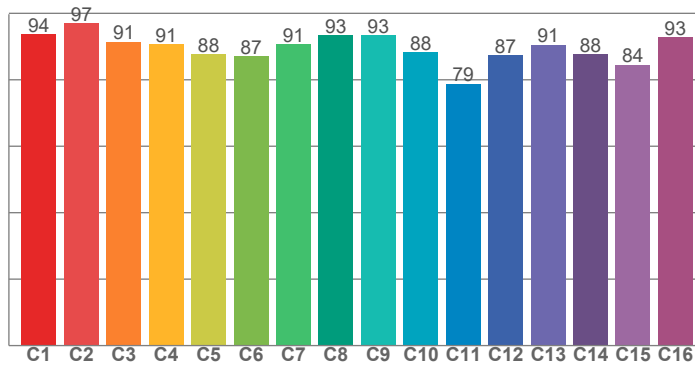
Spectra



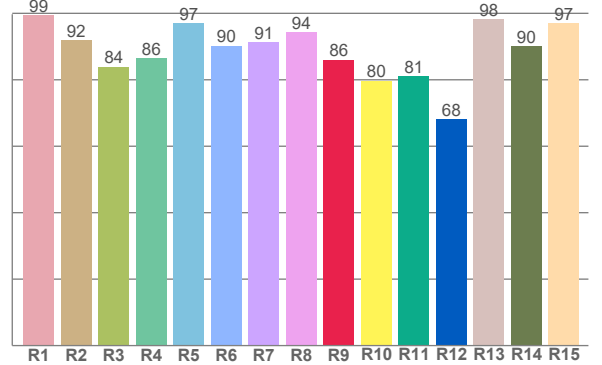
COLOR DETAILS



TM30: 89,4



CRI: 91,8 (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
99,4	92,0	83,9	86,5	97,1	90,3	91,2	94,3	86,0	79,7	81,1	68,1	98,3	90,1	96,9

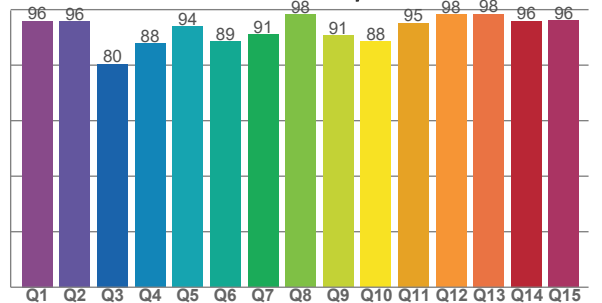
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,7	97,0	91,4	90,6	87,7	87,1	90,7	93,4	93,3	88,3	78,7	87,4	90,5	87,6	84,5	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	95,7	80,4	87,8	93,9	88,5	91,0	98,2	90,7	88,5	95,1	98,2	98,5	95,9	96,0

CQS: 91,4



COLOR PARAMETERS

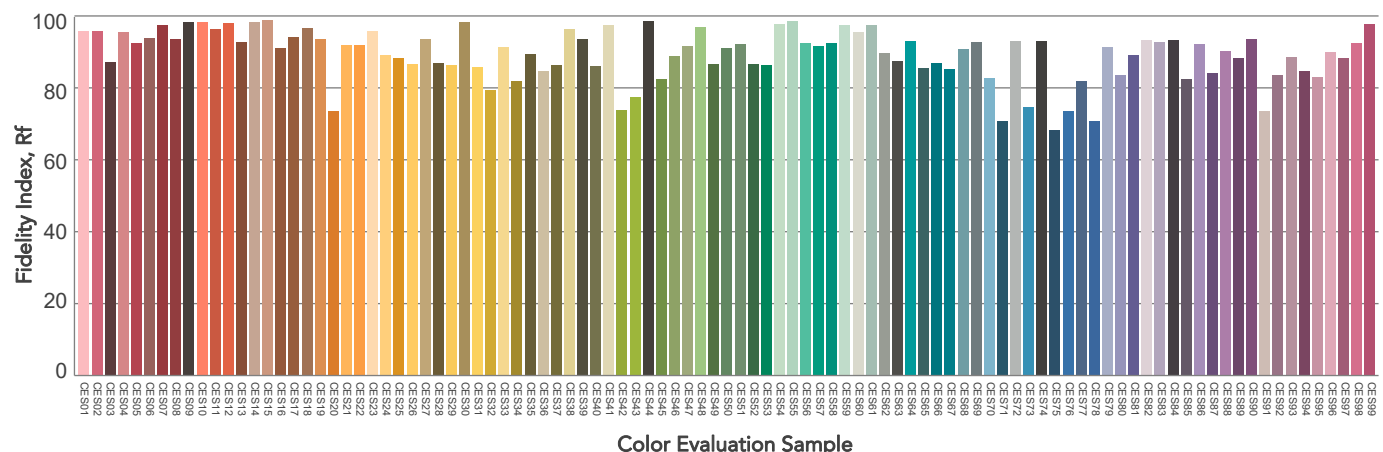
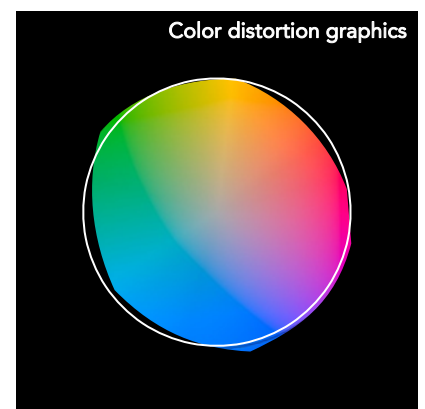
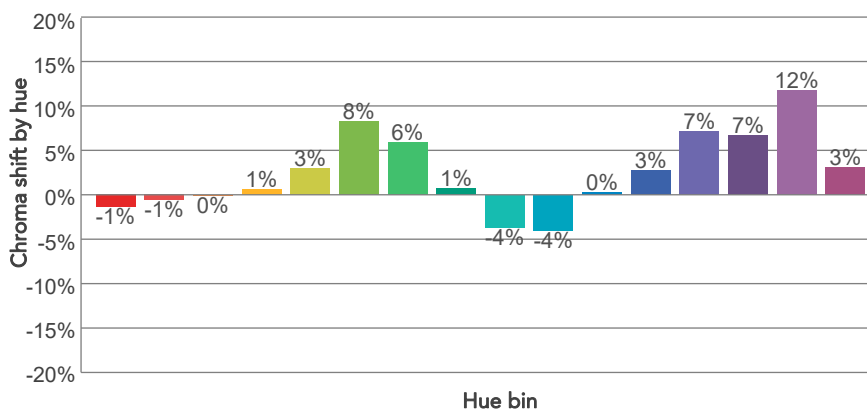
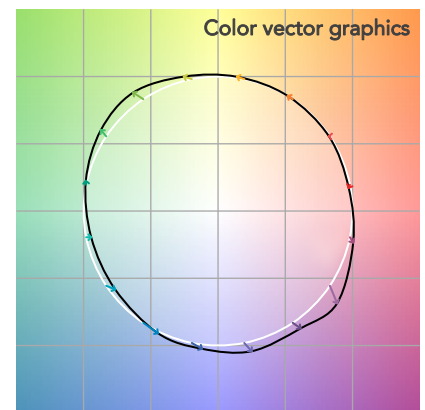
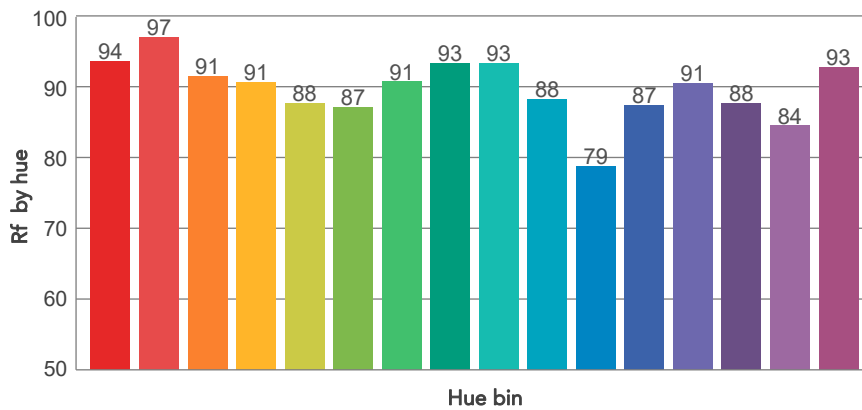
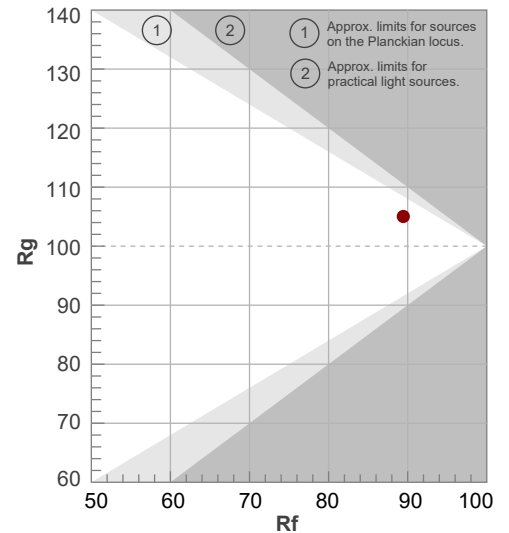
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5515 K	91,8	86,0	89,4	105,0	91,4	89	0,332	0,346	0,0025

TM30 DETAILS

Rf 89,4
Fidelity index Rf

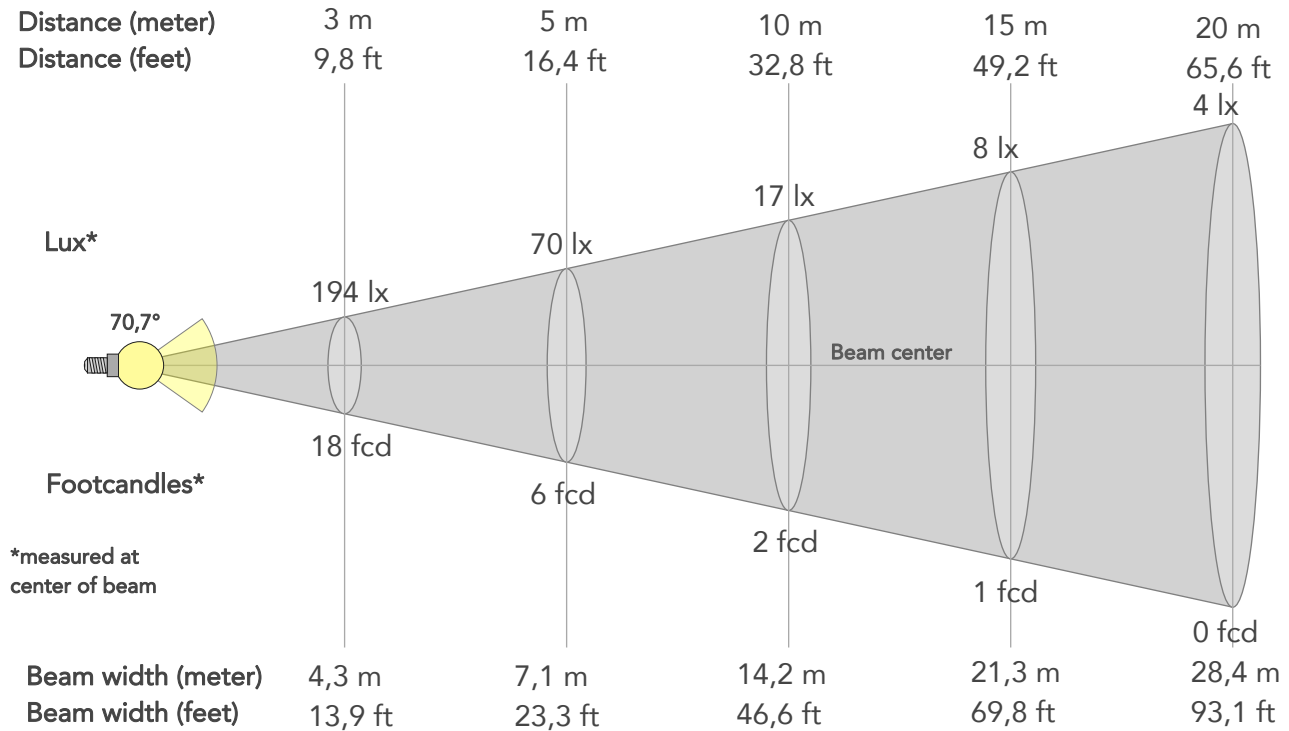
Rg 105,0
Gammut index

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	87	8%	4%
7	91	6%	-2%
8	93	1%	-3%
9	93	-4%	1%
10	88	-4%	6%
11	79	0%	13%
12	87	3%	8%
13	91	7%	4%
14	88	7%	3%
15	84	12%	-8%
16	93	3%	-3%



BEAM DETAILS

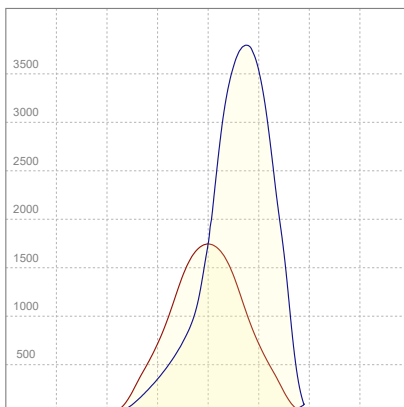
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,7°	130,8°	154,6°	82,4%	56,2%



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	1745lx	436lx	194lx	109lx	70lx	31lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	162fcd	41fcd	18fcd	10fcd	6fcd	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	56,8m	71m
Beam wid.	4,7ft	9,4ft	13,9ft	18,6ft	23,3ft	34,9ft	46,6ft	69,8ft	93,1ft	116,4ft	139,7ft	186,3ft	232,8ft

LINEAR DISTRIBUTION DIAGRAM

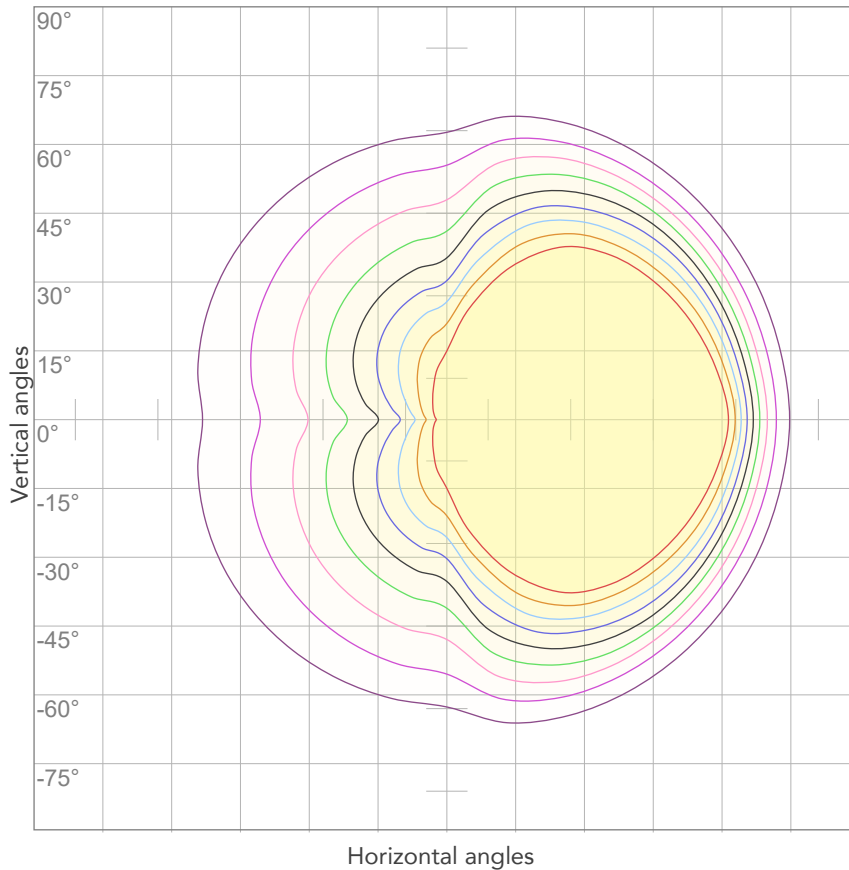


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,544A	122,1W	0,98	44lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



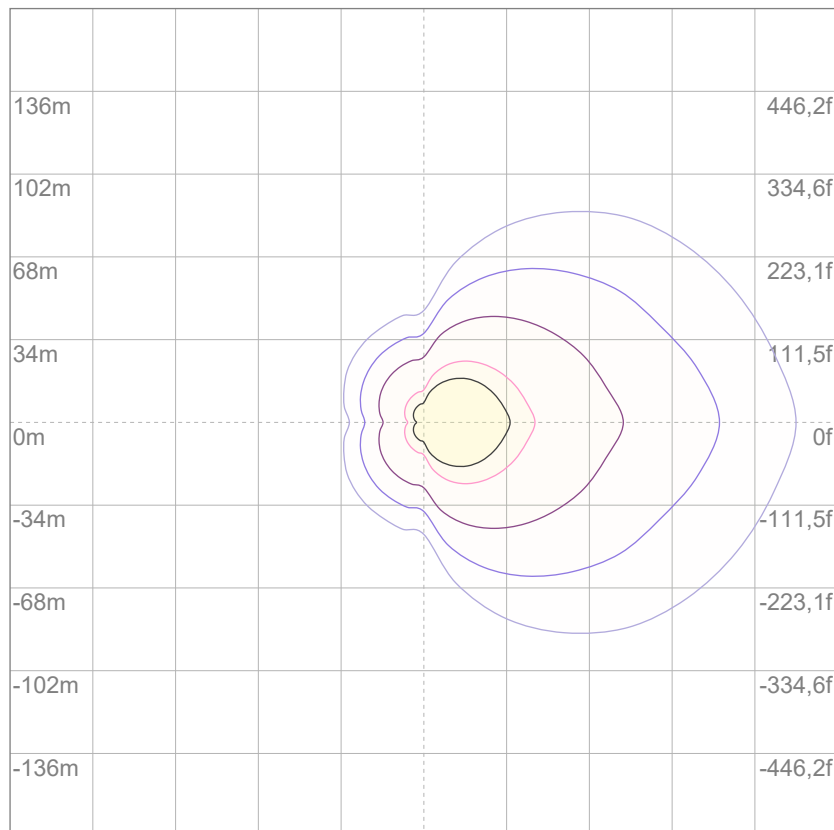
10%	175 cd
20%	349 cd
30%	524 cd
40%	698 cd
50%	873 cd
60%	1047 cd
70%	1222 cd
80%	1396 cd

Conditions:

Number of c-planes: 4

Candela at center: 1745 cd

ISO LUX DIAGRAM



3%	0,524 lx
5%	0,873 lx
10%	1,75 lx
30%	5,24 lx
50%	8,73 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,5 lx

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



Total lumen output:

1859 lm

Peak candela output:

1344 cd

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

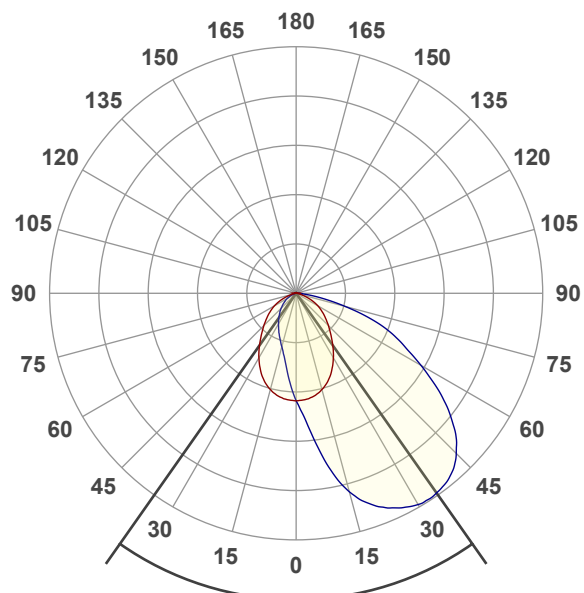
Red HQ

Operator:

Giuseppe della Peruta

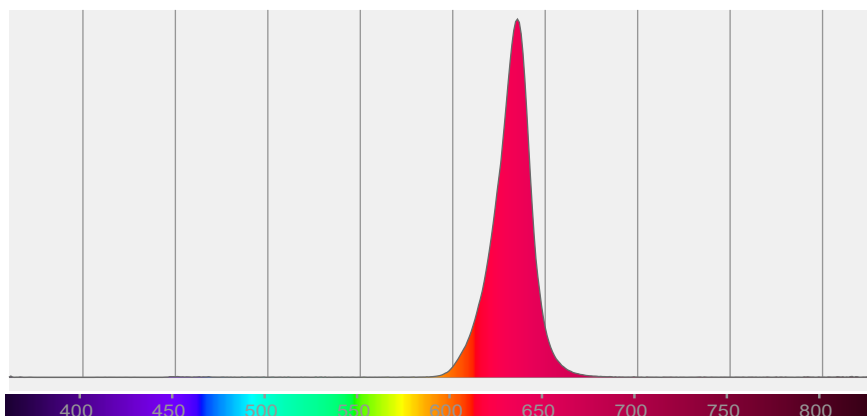
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22/09/2025 13:21:25



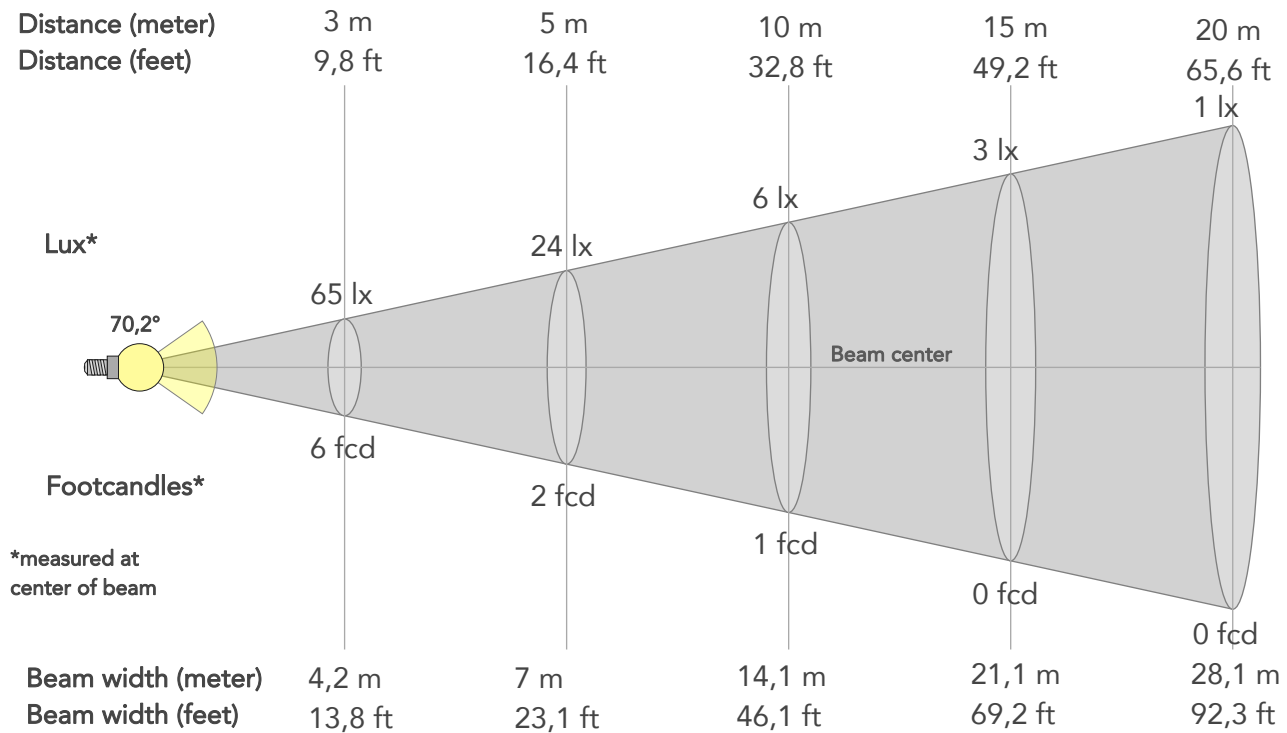
	Blue curve V	Red curve H
Beam angle 50%:	60,1°	80,3°
Field angle 10%:	121,1°	140,3°
Cut off angle 2.5%:	151,5°	159,3°

Spectra



BEAM DETAILS

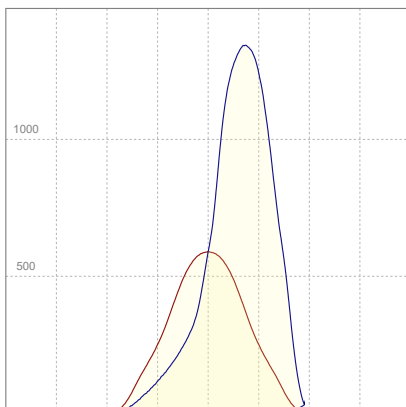
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,2°	130,7°	155,4°	82,3%	56,1%



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	589lx	147lx	65lx	37lx	24lx	10lx	6lx	3lx	1lx	1lx	1lx	0lx	0lx
Footcand.	55fcd	14fcd	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	56,3m	70,3m
Beam wid.	4,6ft	9,3ft	13,8ft	18,4ft	23,1ft	34,6ft	46,1ft	69,2ft	92,3ft	115,3ft	138,4ft	184,5ft	230,7ft

LINEAR DISTRIBUTION DIAGRAM

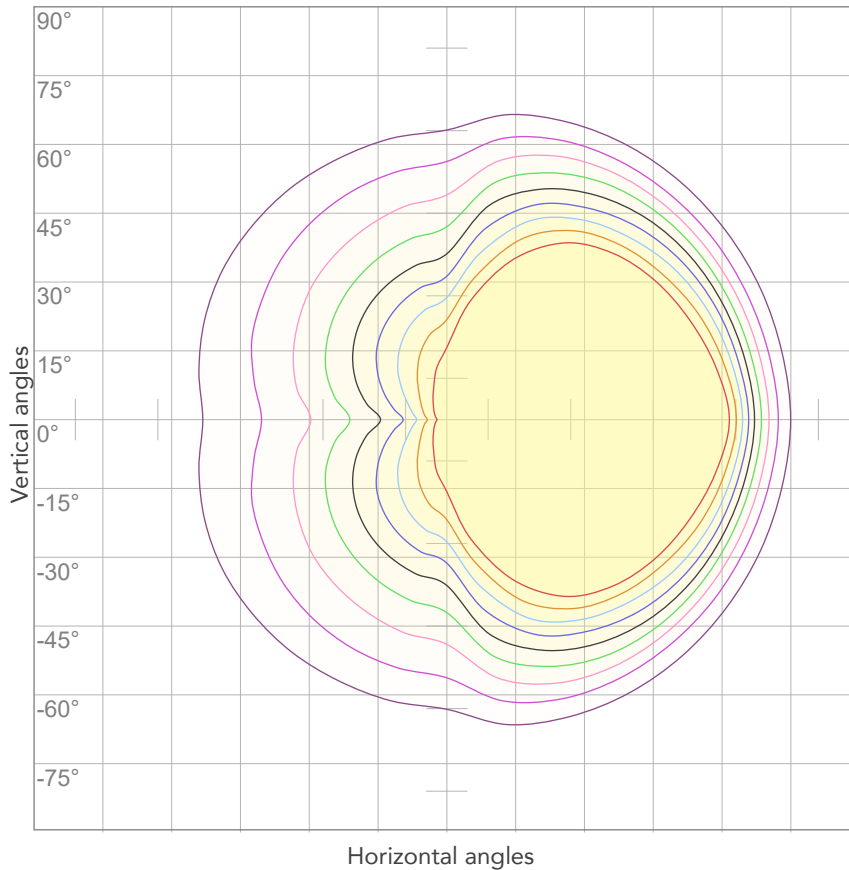


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
230V	0,347A	75,4W	0,95	25lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



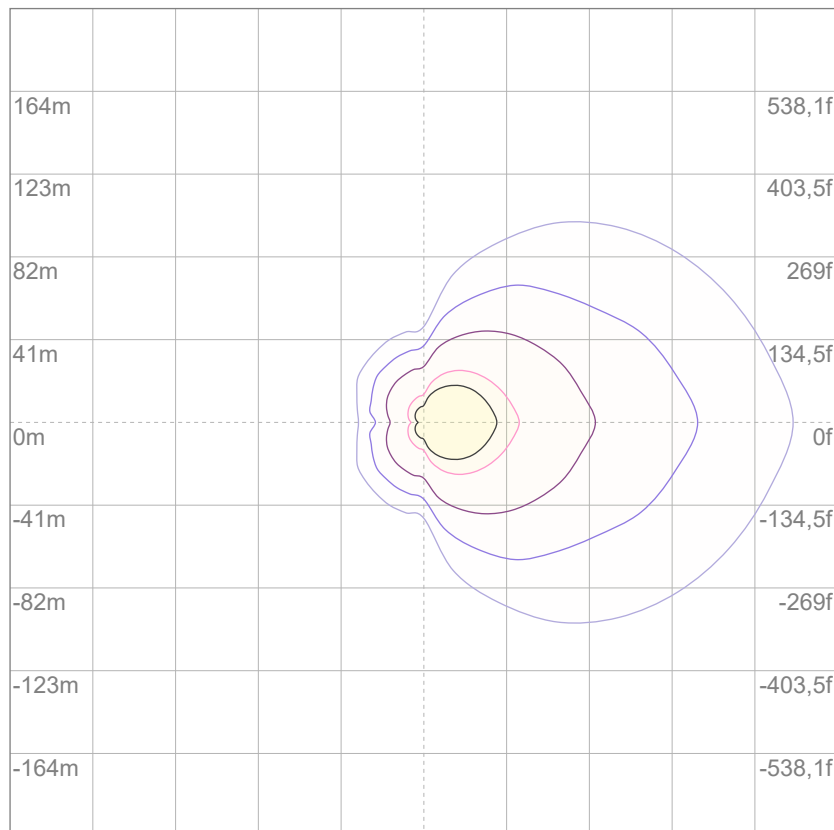
10%	59 cd
20%	118 cd
30%	177 cd
40%	236 cd
50%	295 cd
60%	354 cd
70%	412 cd
80%	471 cd

Conditions:

Number of c-planes: 4

Candela at center: 589 cd

ISO LUX DIAGRAM



3%	0,177 lx
5%	0,295 lx
10%	0,589 lx
30%	1,77 lx
50%	2,95 lx

Conditions:

Number of c-planes: 4

Lux at center: 5,89 lx

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



Total lumen output:

3560 lm

Peak candela output:

2577 cd

PRODUCT NAME:

ECLEXPFL150IPFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

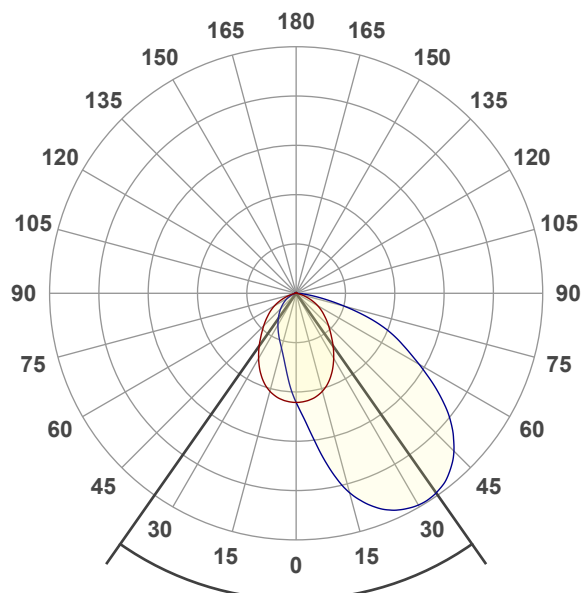
Green HQ

Operator:

Giuseppe della Peruta

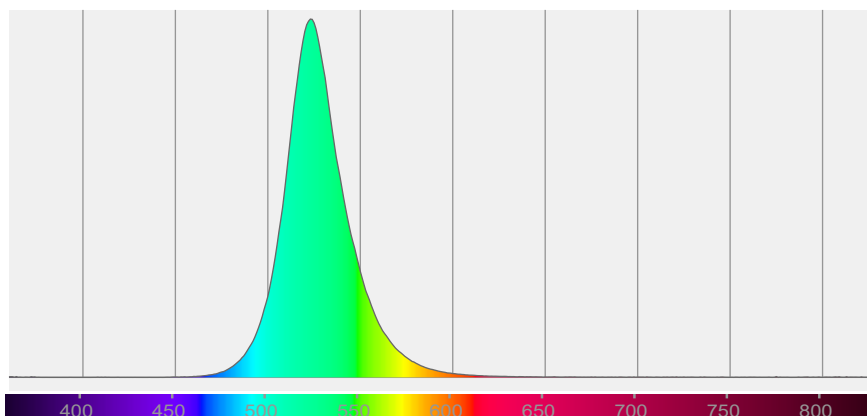
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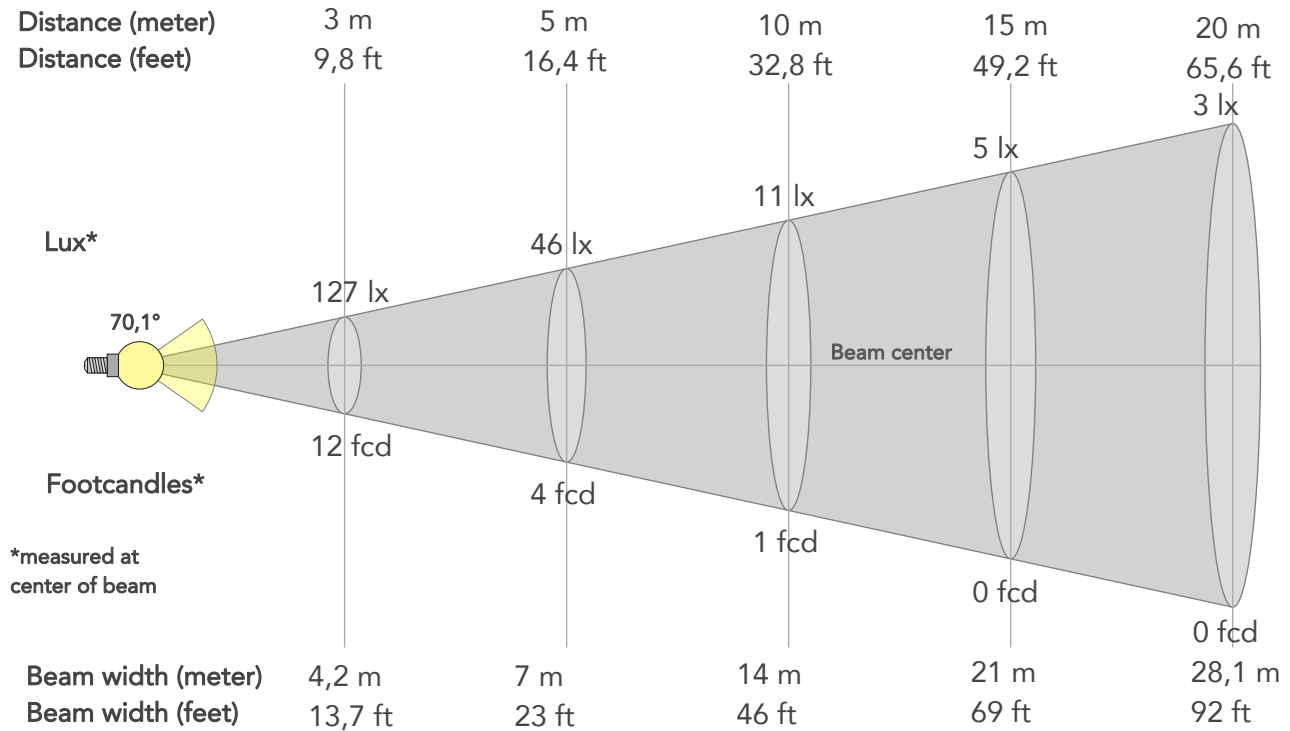
	Blue curve V	Red curve H
Beam angle 50%:	60,4°	79,8°
Field angle 10%:	121,5°	140°
Cut off angle 2.5%:	151,5°	157,6°

Spectra



BEAM DETAILS

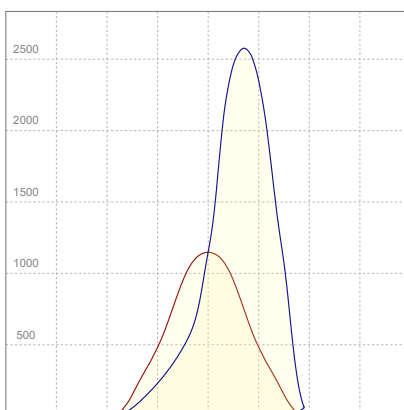
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,1°	130,7°	154,6°	82,5%	56,5%



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	1147lx	287lx	127lx	72lx	46lx	20lx	11lx	5lx	3lx	2lx	1lx	1lx	0lx
Footcand.	107fcd	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	70,1m
Beam wid.	4,6ft	9,3ft	13,7ft	18,4ft	23ft	34,5ft	46ft	69ft	92ft	115ft	138ft	184,1ft	230,1ft

LINEAR DISTRIBUTION DIAGRAM

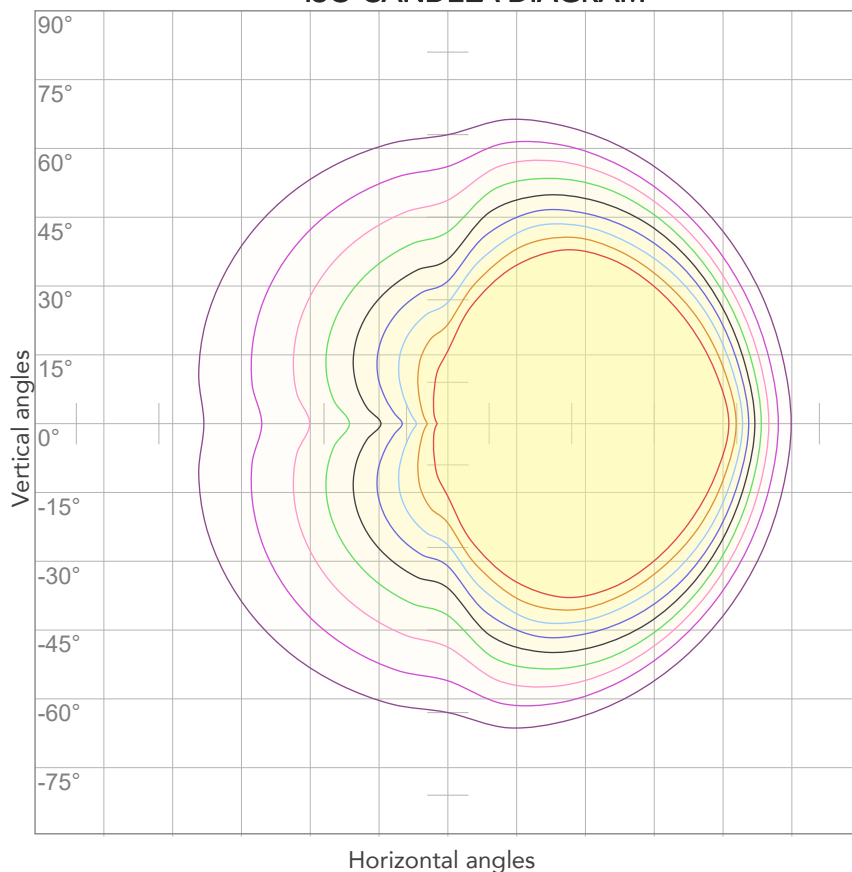


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,383A	84,0W	0,96	42lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



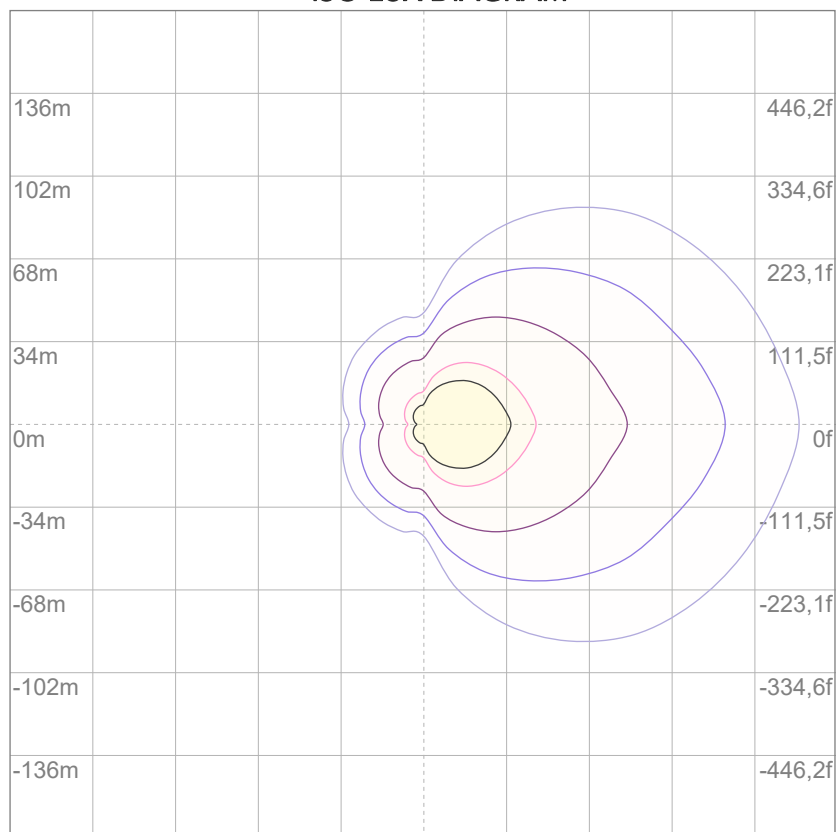
10%	115 cd
20%	229 cd
30%	344 cd
40%	459 cd
50%	574 cd
60%	688 cd
70%	803 cd
80%	918 cd

Conditions:

Number of c-planes: 4

Candela at center: 1147 cd

ISO LUX DIAGRAM



3%	0,344 lx
5%	0,574 lx
10%	1,15 lx
30%	3,44 lx
50%	5,74 lx

Conditions:

Number of c-planes: 4

Lux at center: 11,5 lx

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



Total lumen output:

713 lm

Peak candela output:

512 cd

PRODUCT NAME:

ECLEXPOFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

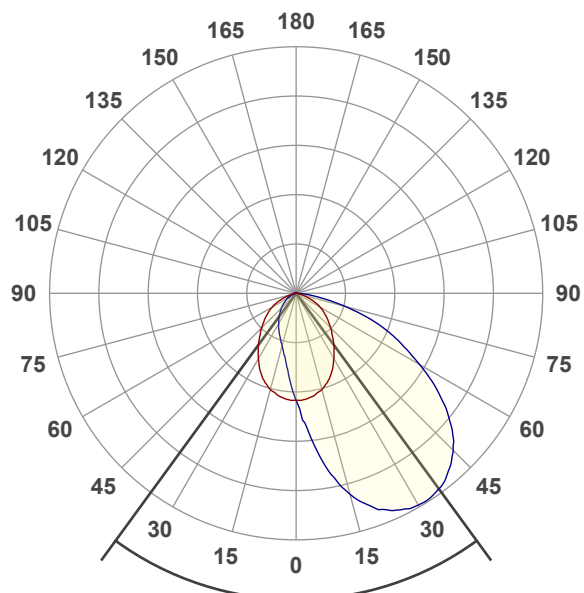
Blue HQ

Operator:

Giuseppe della Peruta

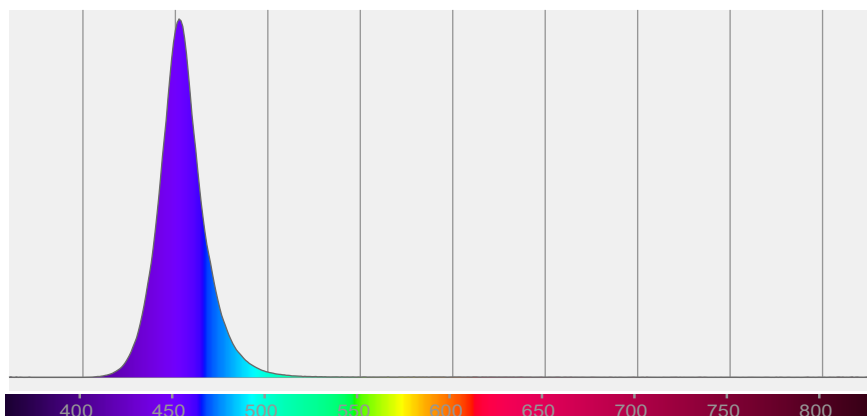
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22/09/2025 14:12:37



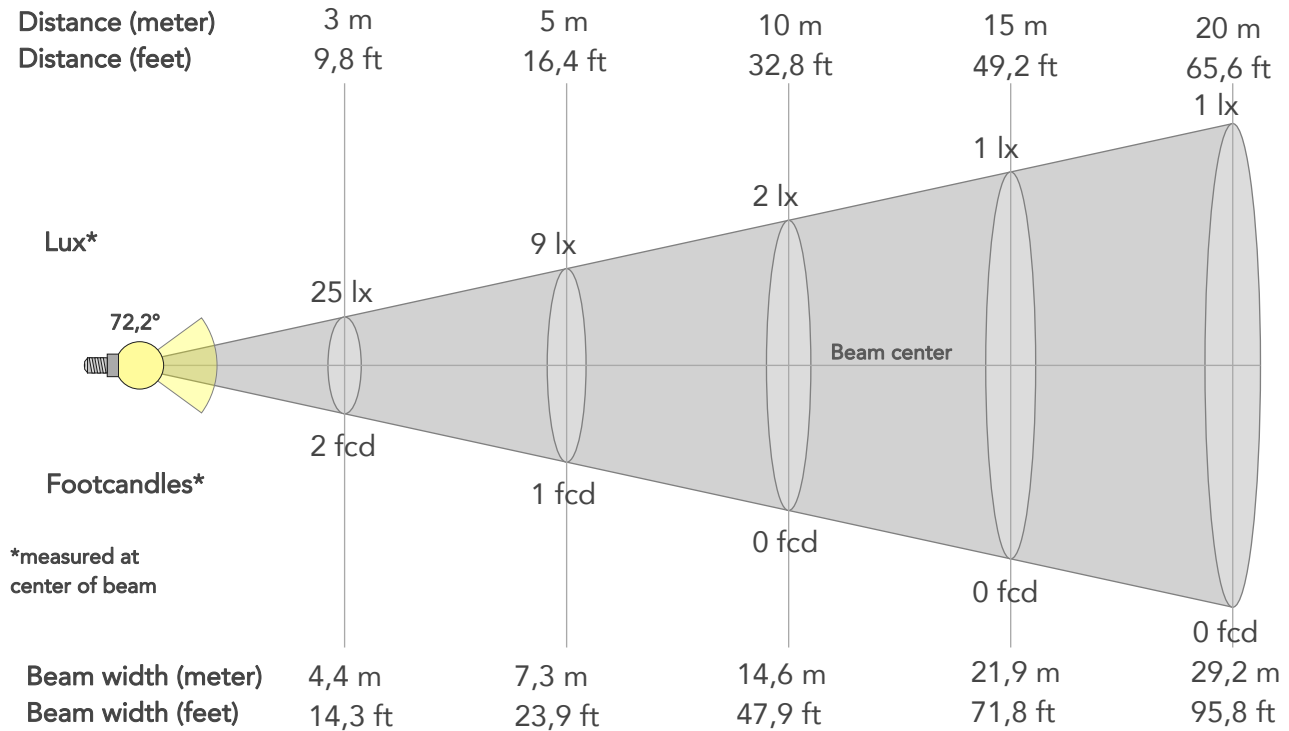
	Blue curve V	Red curve H
Beam angle 50%:	60,8°	83,6°
Field angle 10%:	120,5°	141,8°
Cut off angle 2.5%:	151,4°	160,6°

Spectra



BEAM DETAILS

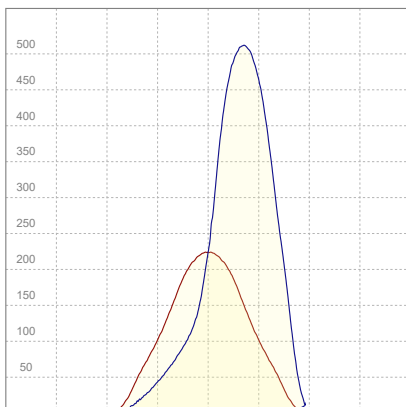
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72,2°	131,1°	156°	82,2%	56,0%



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	224lx	56lx	25lx	14lx	9lx	4lx	2lx	1lx	1lx	0lx	0lx	0lx	0lx
Footcand.	21fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,5m	2,9m	4,4m	5,8m	7,3m	10,9m	14,6m	21,9m	29,2m	36,5m	43,8m	58,4m	73m
Beam wid.	4,8ft	9,6ft	14,3ft	19,1ft	23,9ft	35,9ft	47,9ft	71,8ft	95,8ft	119,7ft	143,6ft	191,5ft	239,4ft

LINEAR DISTRIBUTION DIAGRAM

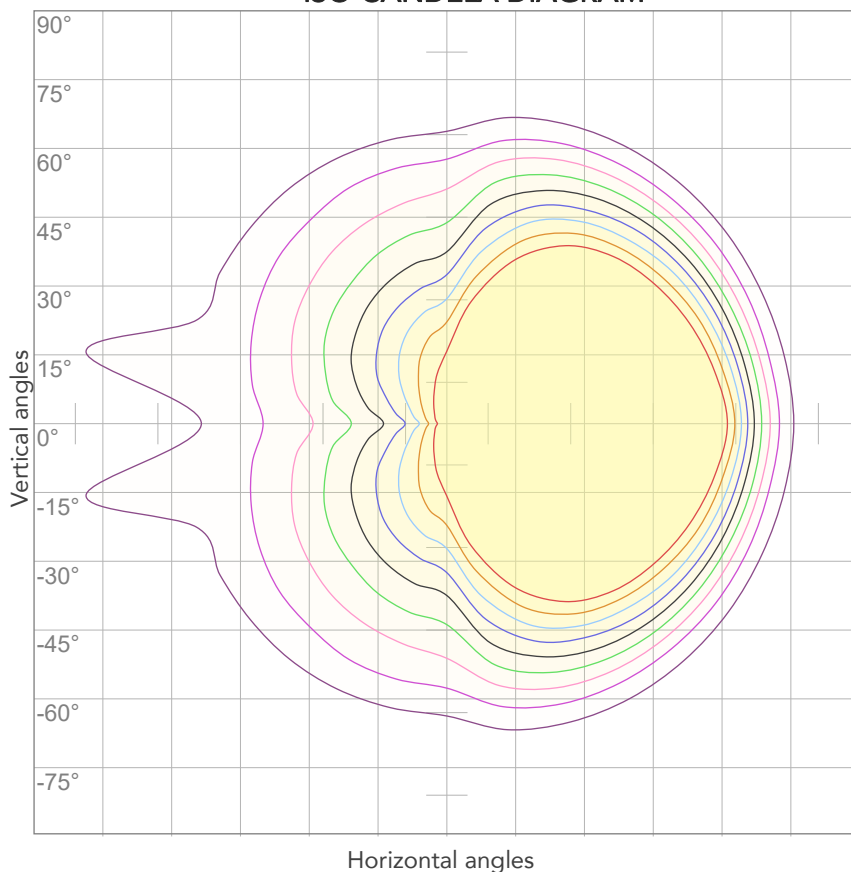


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,401A	88,3W	0,96	8lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



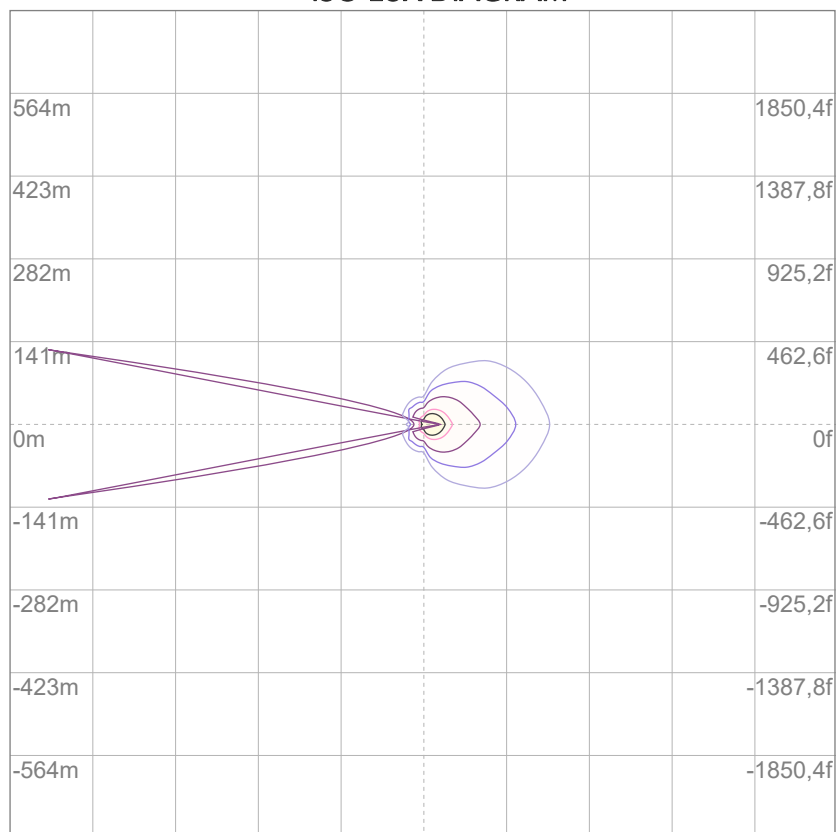
10%	22 cd
20%	45 cd
30%	67 cd
40%	89 cd
50%	112 cd
60%	134 cd
70%	157 cd
80%	179 cd

Conditions:

Number of c-planes: 4

Candela at center: 224 cd

ISO LUX DIAGRAM



3%	67,1m lx
5%	0,112 lx
10%	0,224 lx
30%	0,671 lx
50%	1,12 lx

Conditions:

Number of c-planes: 4

Lux at center: 2,24 lx

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



Total lumen output:

4118 lm

Peak candela output:

2912 cd

Light quality:

CRI: 82,3

Color temperature:

3241 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

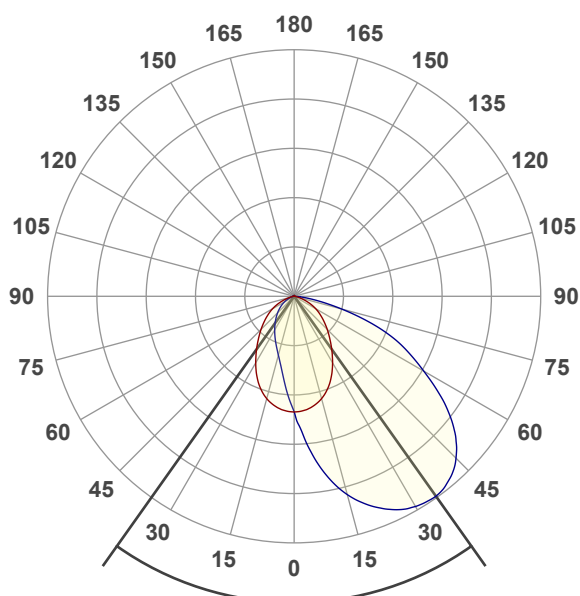
White HQ

Operator:

Giuseppe della Peruta

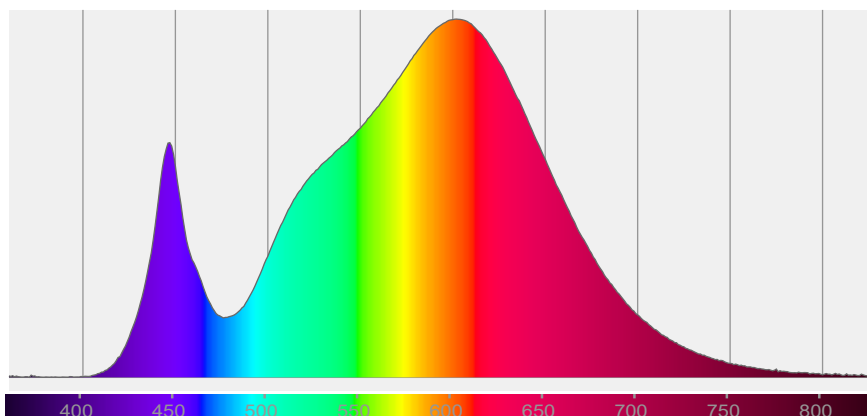
Date and time:

22/09/2025 14:17:09

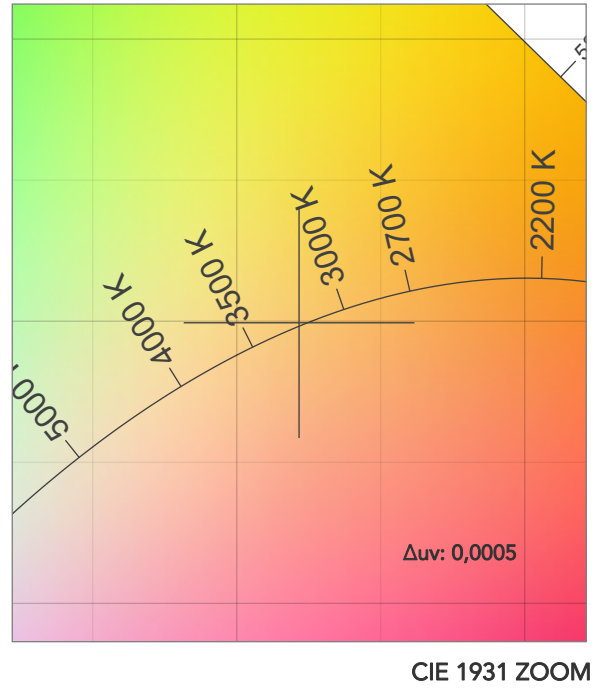
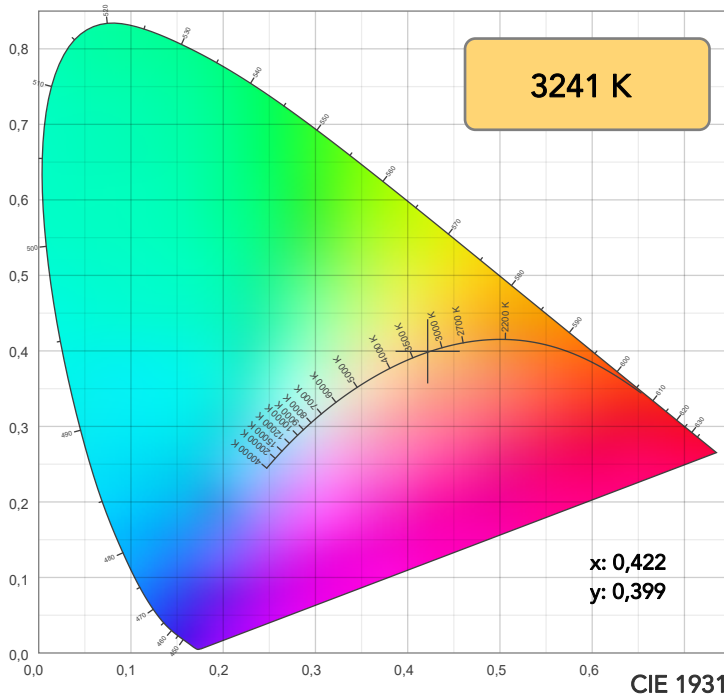


	Blue curve V	Red curve H
Beam angle 50%:	63,8°	77,6°
Field angle 10%:	122,9°	139°
Cut off angle 2.5%:	152,1°	157,1°

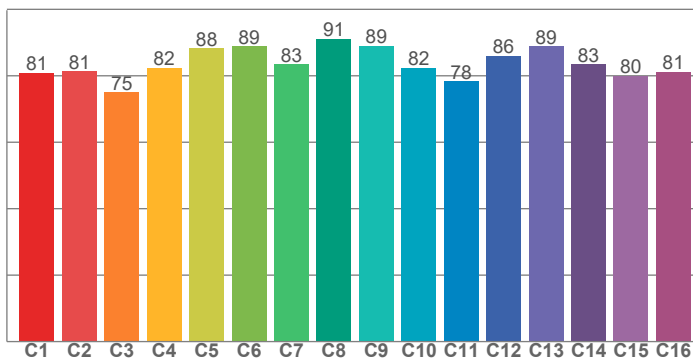
Spectra



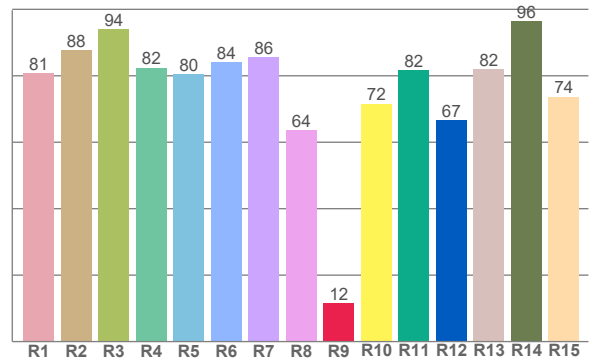
COLOR DETAILS



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
80,8	87,8	94,0	82,4	80,4	84,1	85,5	63,7	11,6	71,6	81,6	66,6	82,1	96,4	73,7

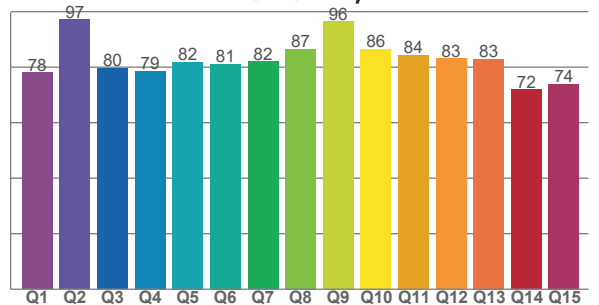
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,9	81,3	75,1	82,4	88,3	88,8	83,5	91,1	89,0	82,4	78,3	86,0	89,0	83,4	80,0	81,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,1	97,2	79,6	78,6	81,9	81,2	82,0	86,5	96,5	86,5	84,3	83,1	82,9	71,9	74,0

CQS: 81,6



COLOR PARAMETERS

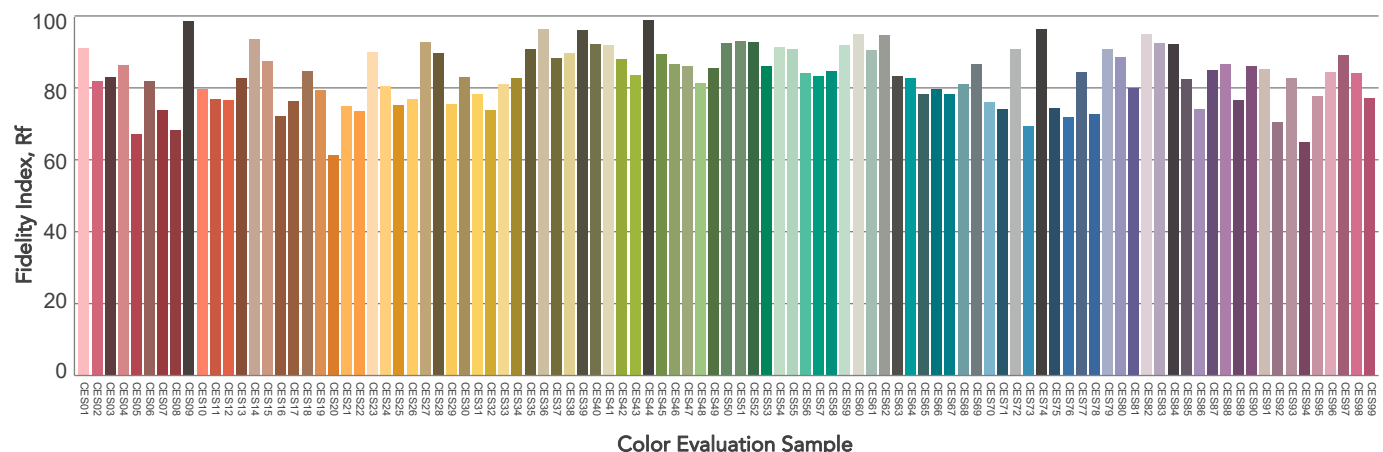
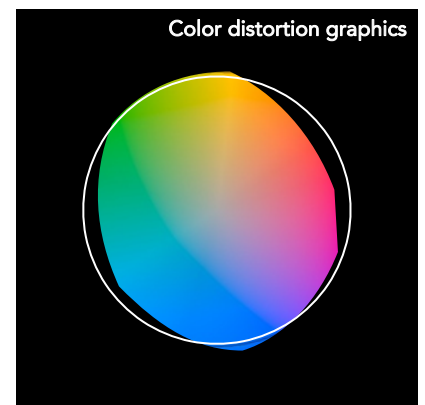
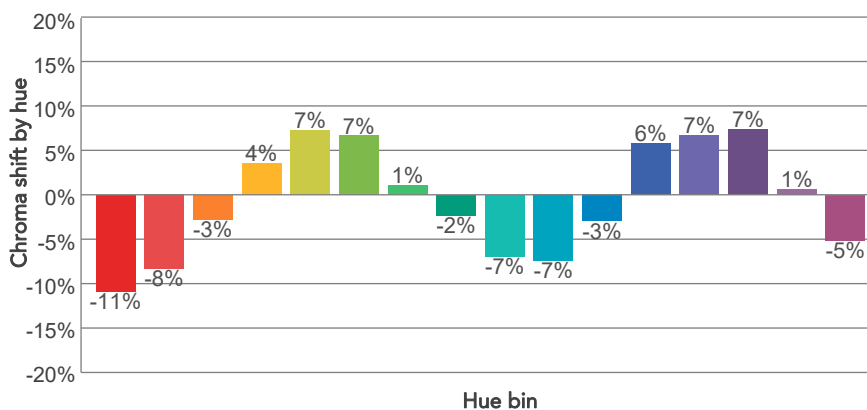
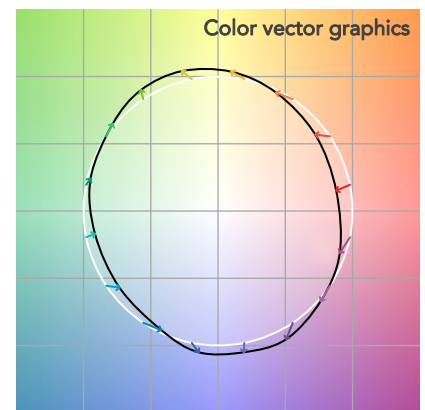
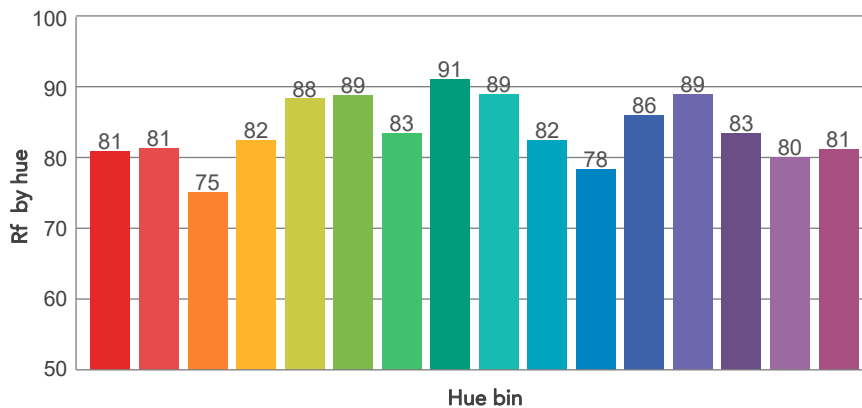
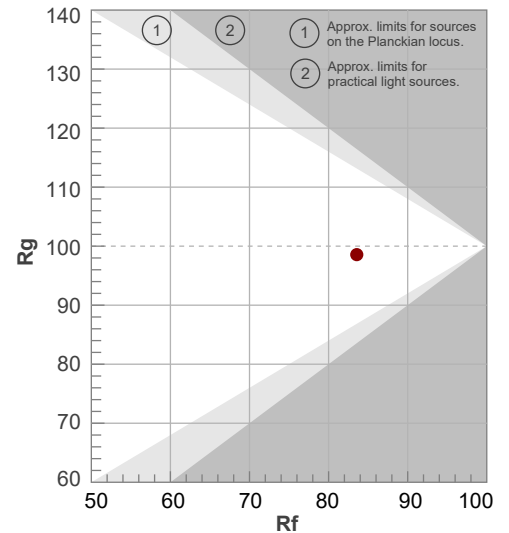
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3241 K	82,3	11,6	83,6	98,6	81,6	68	0,422	0,399	0,0005

TM30 DETAILS

Rf 83,6
Fidelity index Rf

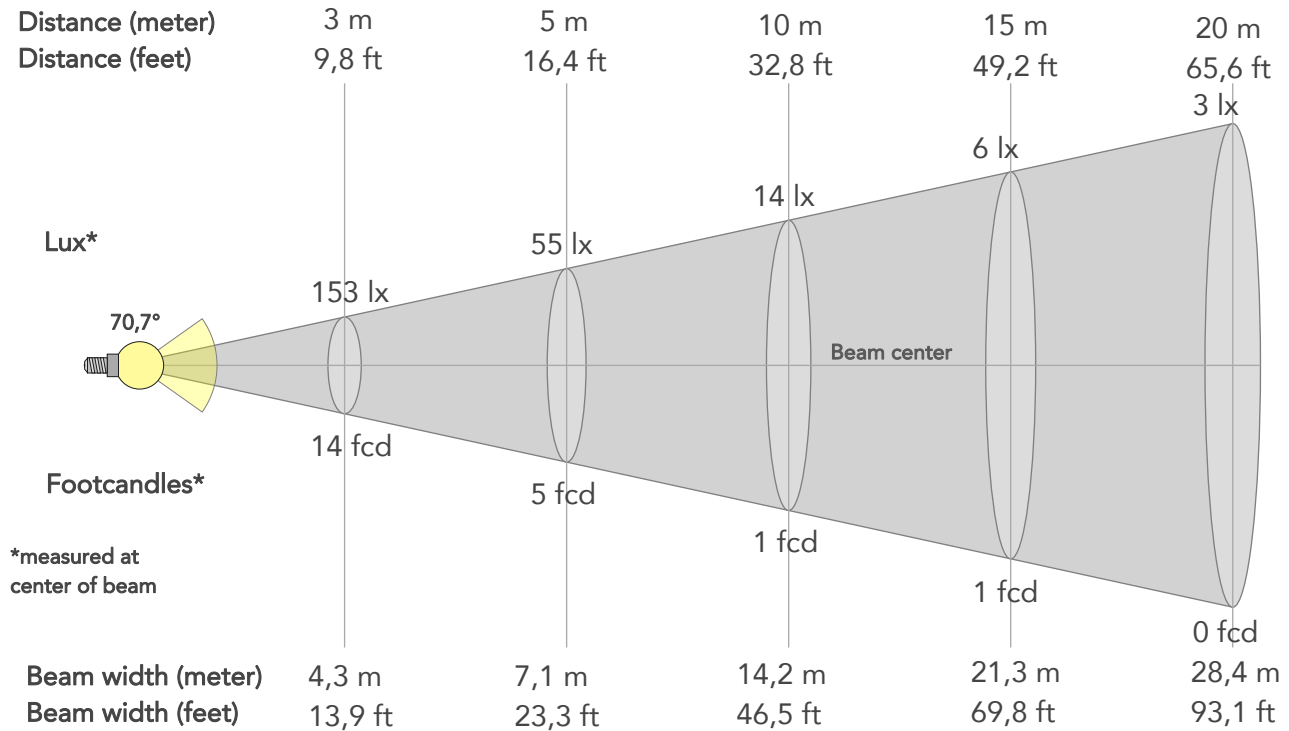
Rg 98,6
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	81	-11%	-2%
2	81	-8%	7%
3	75	-3%	13%
4	82	4%	11%
5	88	7%	6%
6	89	7%	-2%
7	83	1%	-10%
8	91	-2%	-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

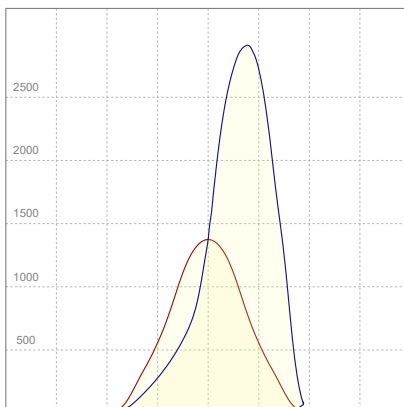
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,7°	131°	154,6°	82,6%	56,3%



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	1374lx	344lx	153lx	86lx	55lx	24lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx
Footcand.	128fcd	32fcd	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	28,4m	35,5m	42,6m	56,8m	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	186,2ft	232,7ft

LINEAR DISTRIBUTION DIAGRAM

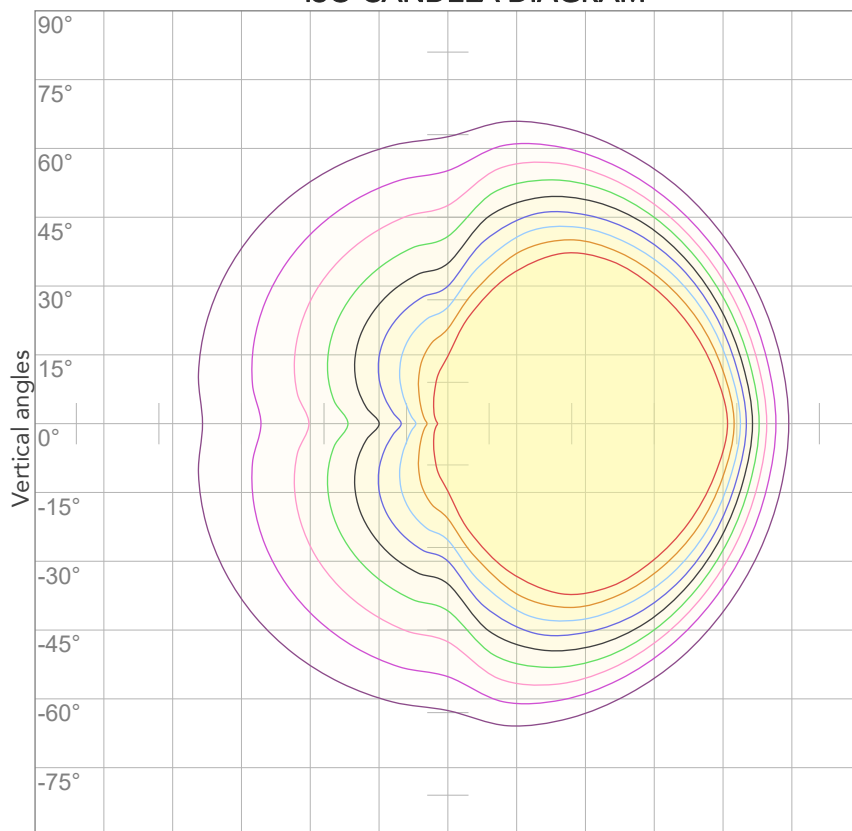


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	0,397A	87,2W	0,96	47lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



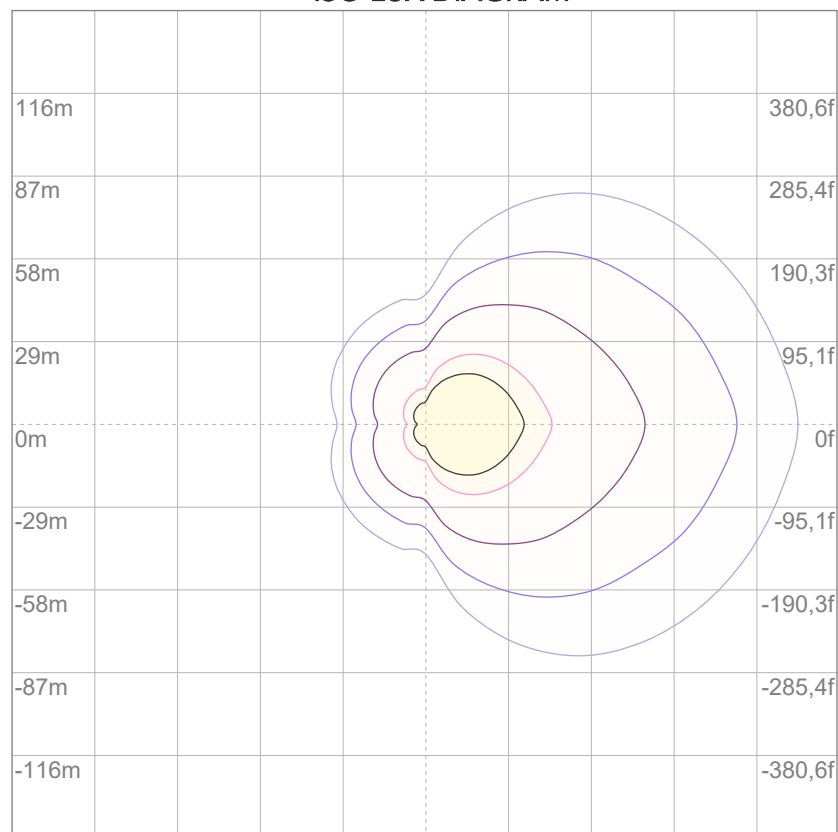
10%	137 cd
20%	275 cd
30%	412 cd
40%	550 cd
50%	687 cd
60%	824 cd
70%	962 cd
80%	1099 cd

Conditions:

Number of c-planes: 4

Candela at center: 1374 cd

ISO LUX DIAGRAM



3%	0,412 lx
5%	0,687 lx
10%	1,37 lx
30%	4,12 lx
50%	6,87 lx

Conditions:

Number of c-planes: 4

Lux at center: 13,7 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

5212 lm

Peak candela output:

3705 cd

Light quality:

CRI: 89,1

Color temperature:

2838 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

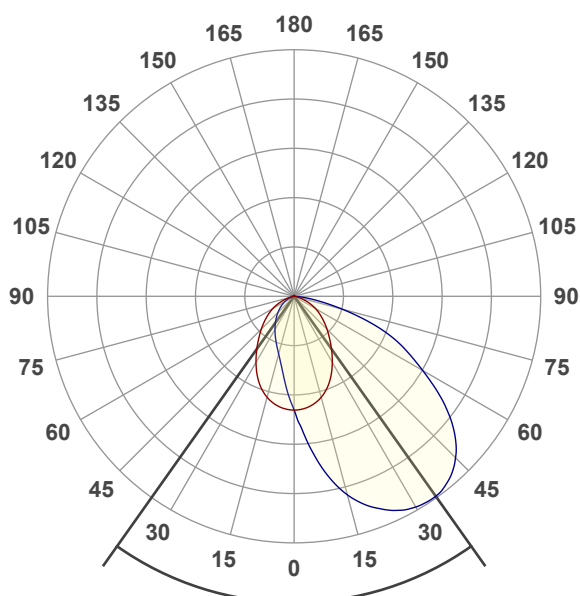
2800K HQ

Operator:

Giuseppe della Peruta

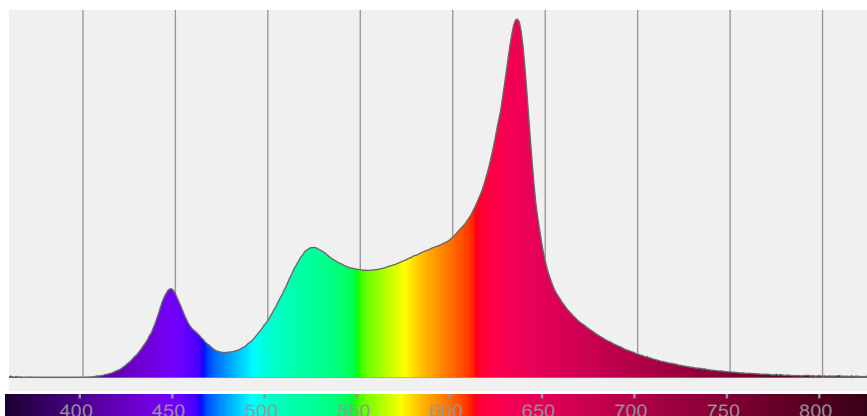
Date and time:

22/09/2025 14:22:14

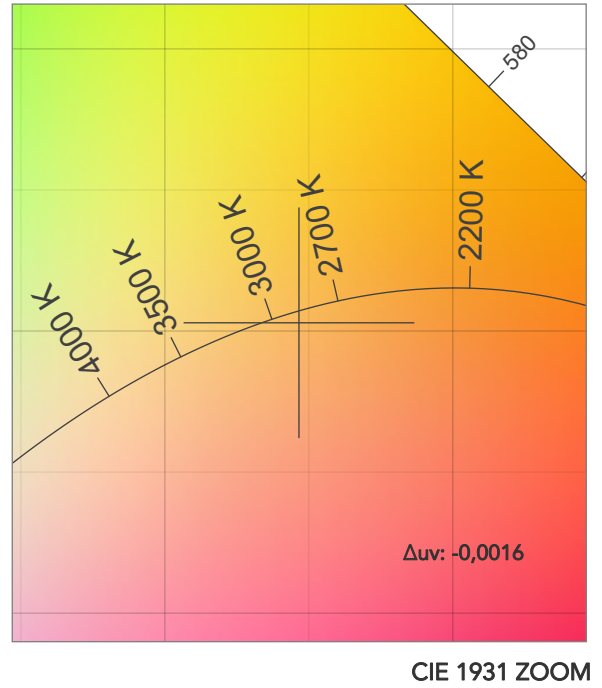
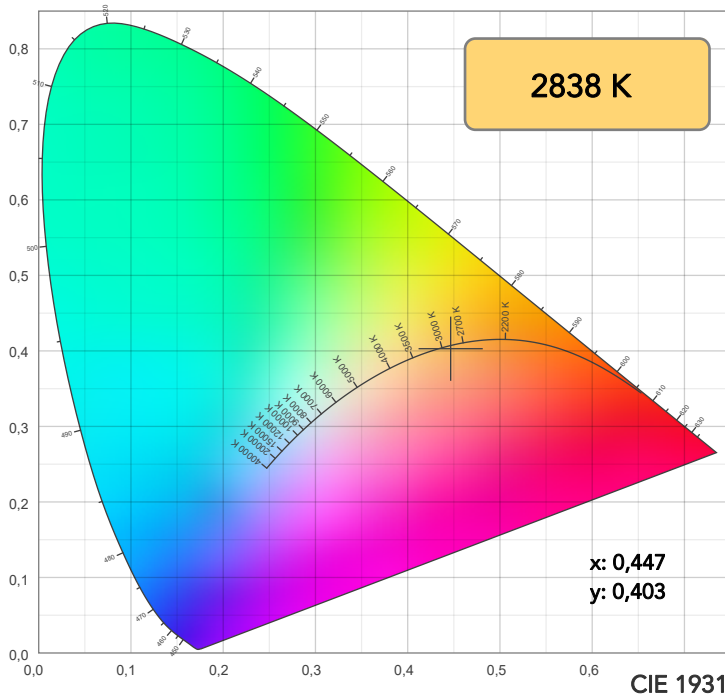


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	78,2°
Field angle 10%:	122,7°	139,1°
Cut off angle 2.5%:	151,9°	157,3°

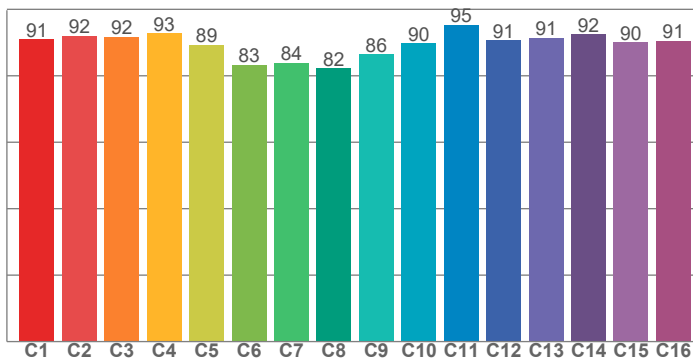
Spectra



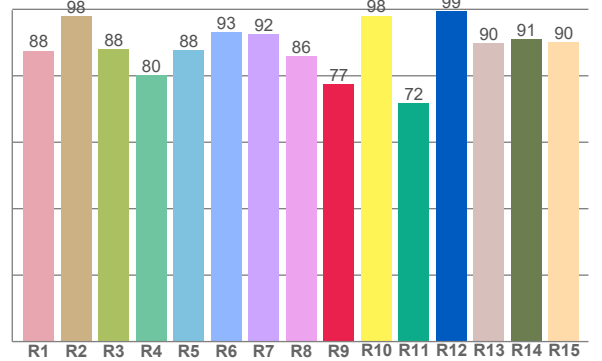
COLOR DETAILS



TM30: 90,1



CRI: 89,1 (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
87,5	97,9	88,1	80,1	87,8	93,0	92,5	85,8	77,4	98,1	71,7	99,4	89,9	91,0	90,0

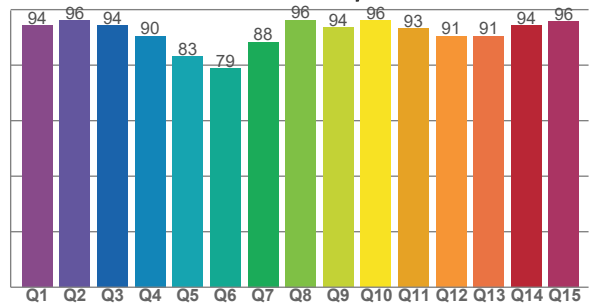
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,1	92,0	91,7	92,8	89,3	83,3	84,0	82,2	86,4	89,8	95,4	90,6	91,5	92,5	90,1	90,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,3	96,1	94,2	90,4	83,0	78,8	88,4	96,3	93,6	96,0	93,1	90,5	90,5	94,4	95,8

CQS: 90,0



COLOR PARAMETERS

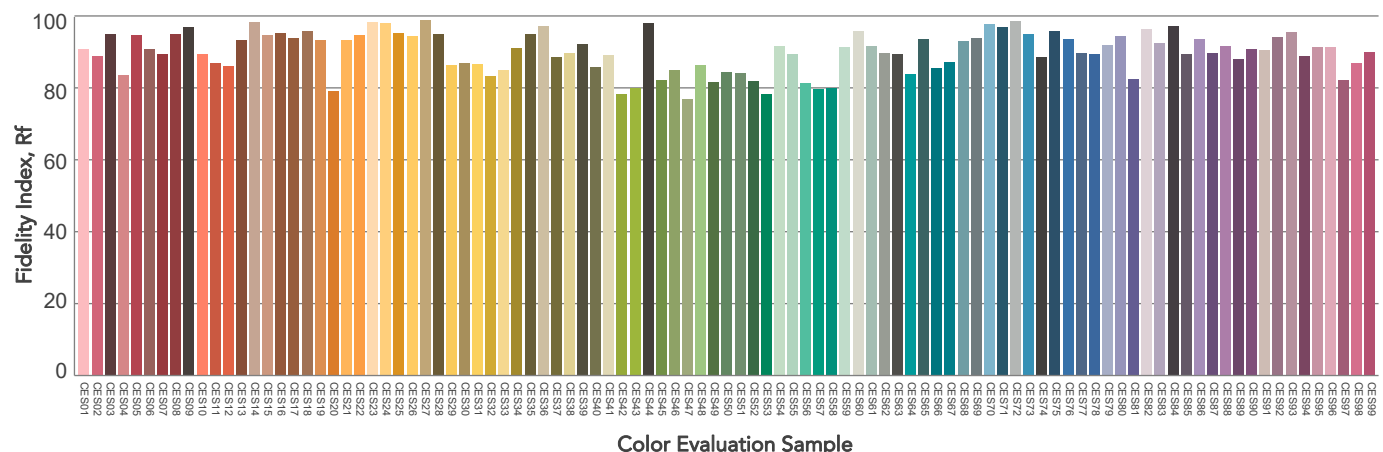
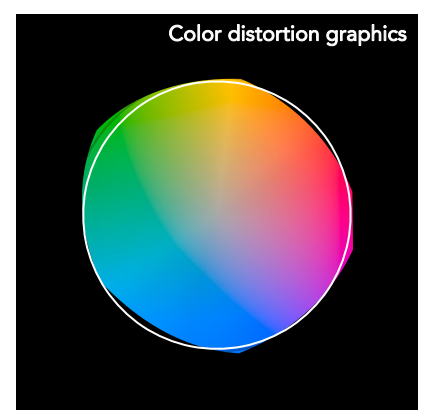
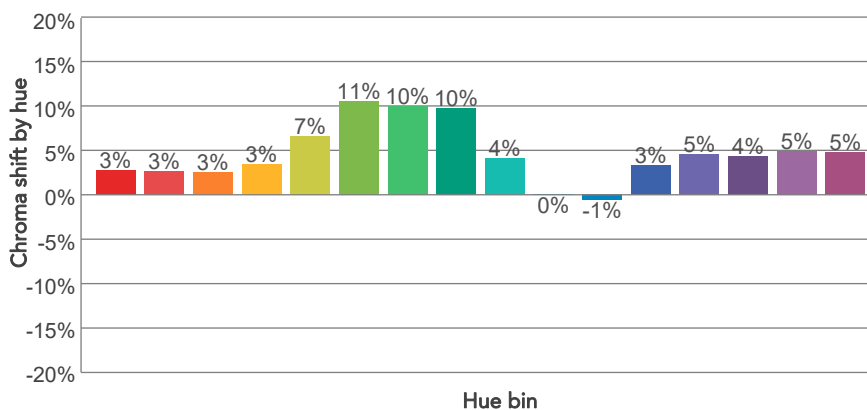
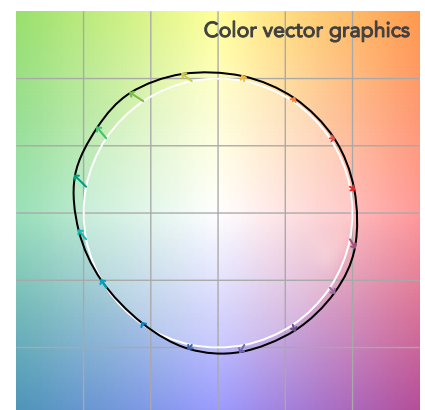
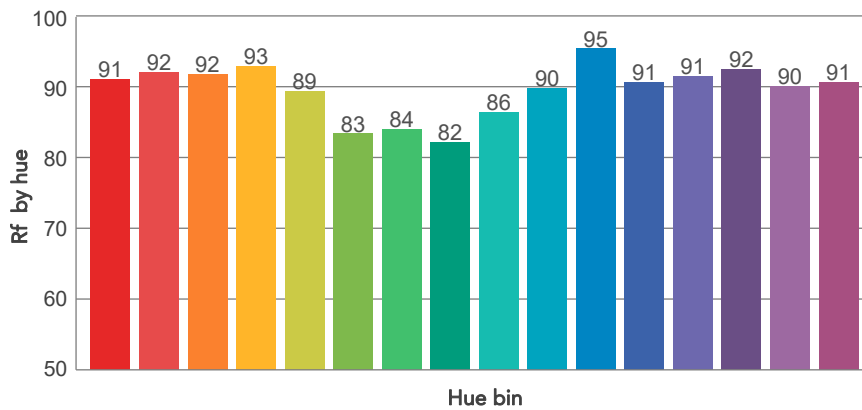
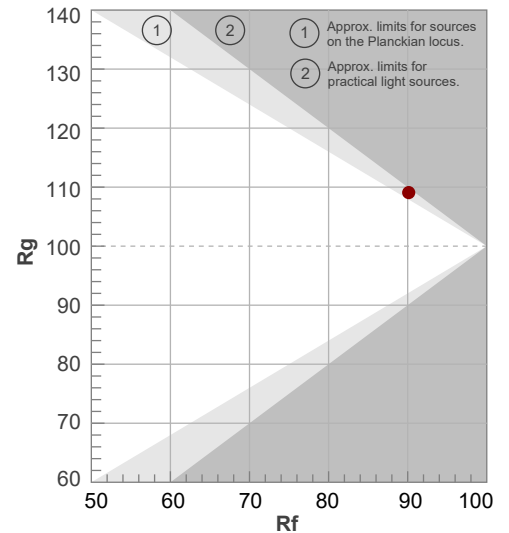
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2838 K	89,1	77,4	90,1	109,1	90,0	79	0,447	0,403	-0,0016

TM30 DETAILS

Rf 90,1
Fidelity index Rf

Rg 109,1
Gammut index

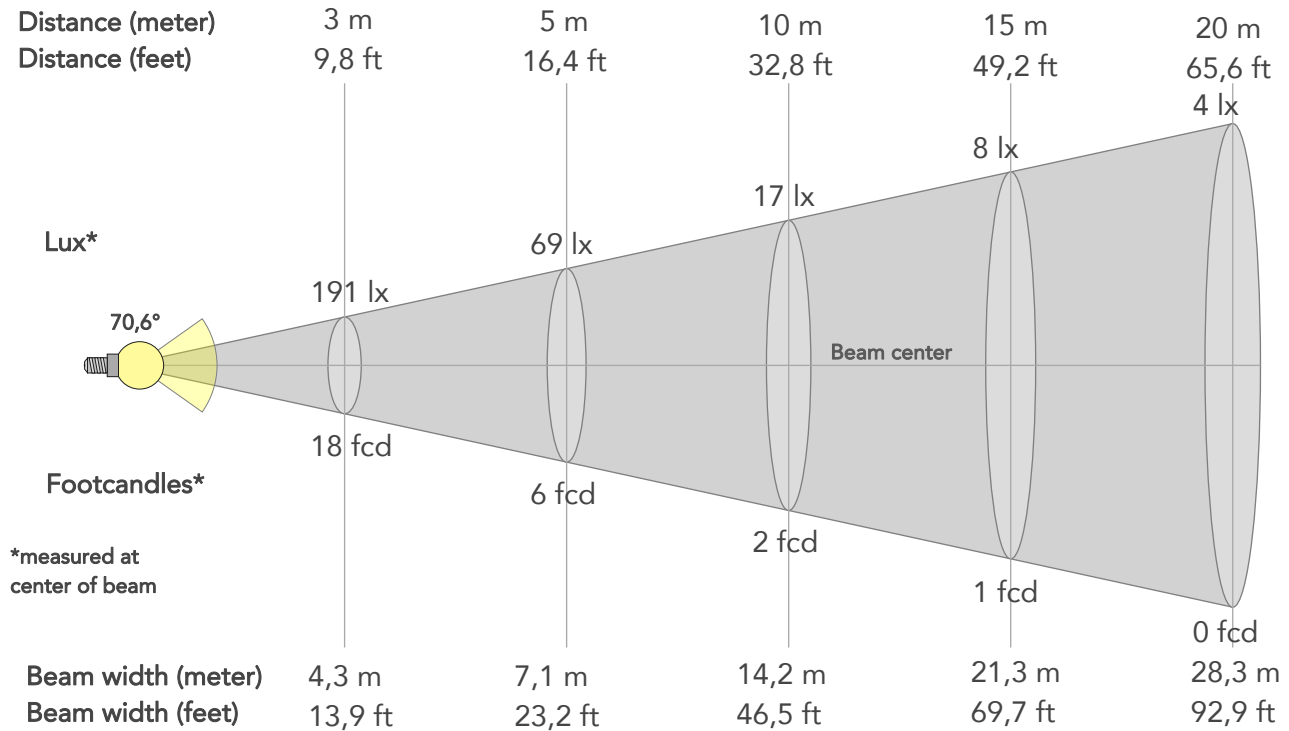
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	3%	-3%
2	92	3%	-2%
3	92	3%	0%
4	93	3%	2%
5	89	7%	6%
6	83	11%	5%
7	84	10%	-3%
8	82	10%	-6%
9	86	4%	-7%
10	90	0%	-7%
11	95	-1%	-1%
12	91	3%	-2%
13	91	5%	-4%
14	92	4%	-1%
15	90	5%	-1%
16	91	5%	-5%



BEAM DETAILS



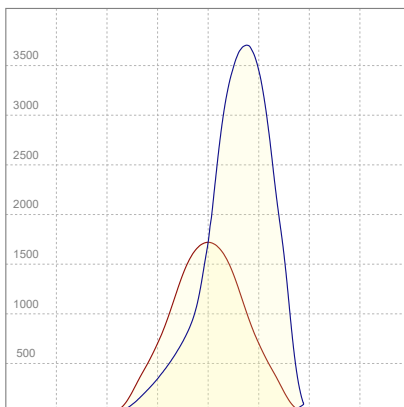
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,6°	130,9°	154,6°	82,5%	56,3%



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	1720lx	430lx	191lx	108lx	69lx	31lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	160fcd	40fcd	18fcd	10fcd	6fcd	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	28,3m	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	92,9ft	116,2ft	139,4ft	185,9ft	232,4ft

LINEAR DISTRIBUTION DIAGRAM

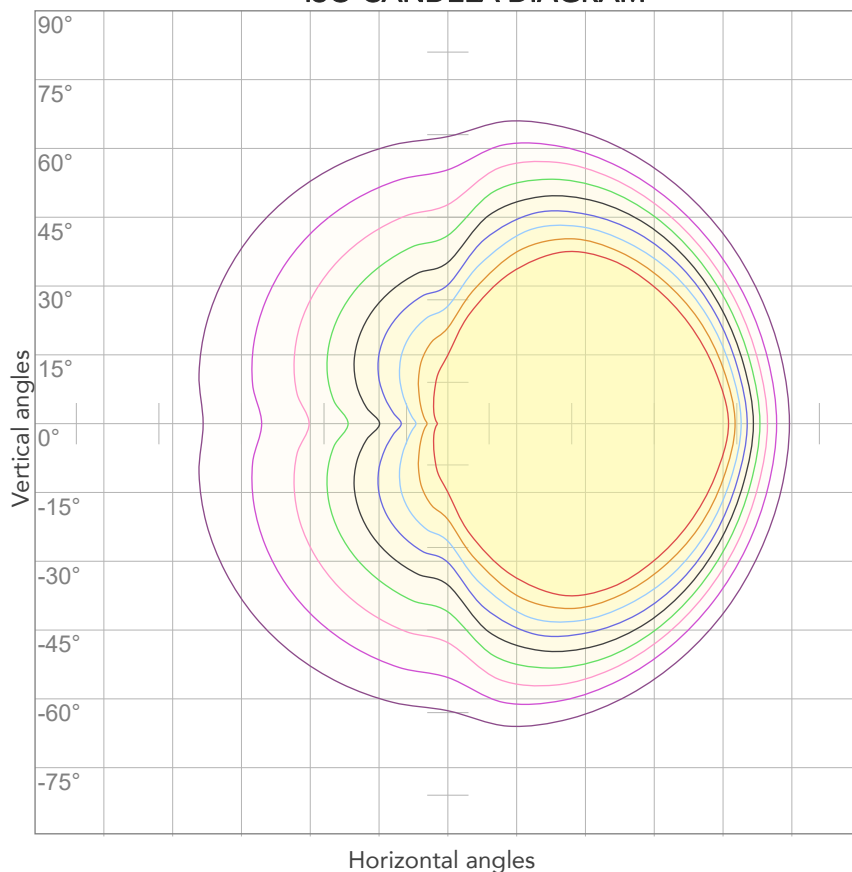


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,512A	114,8W	0,98	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



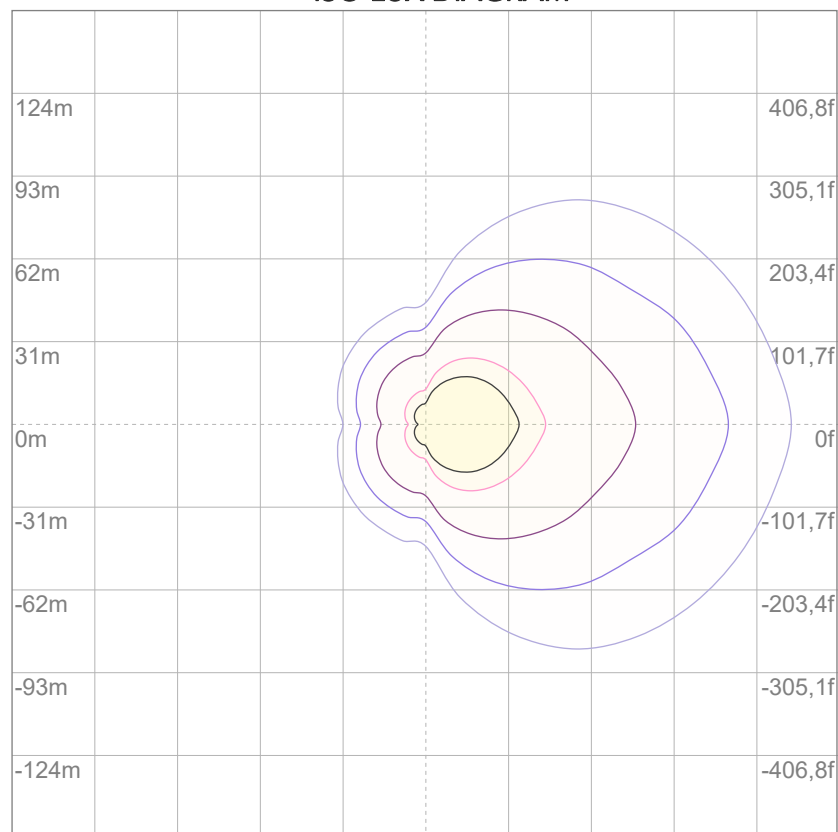
10%	172 cd
20%	344 cd
30%	516 cd
40%	688 cd
50%	860 cd
60%	1032 cd
70%	1204 cd
80%	1376 cd

Conditions:

Number of c-planes: 4

Candela at center: 1720 cd

ISO LUX DIAGRAM



3%	0,516 lx
5%	0,860 lx
10%	1,72 lx
30%	5,16 lx
50%	8,60 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,2 lx

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



Total lumen output:

5186 lm

Peak candela output:

3690 cd

Light quality:

CRI: 91,9

Color temperature:

3197 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

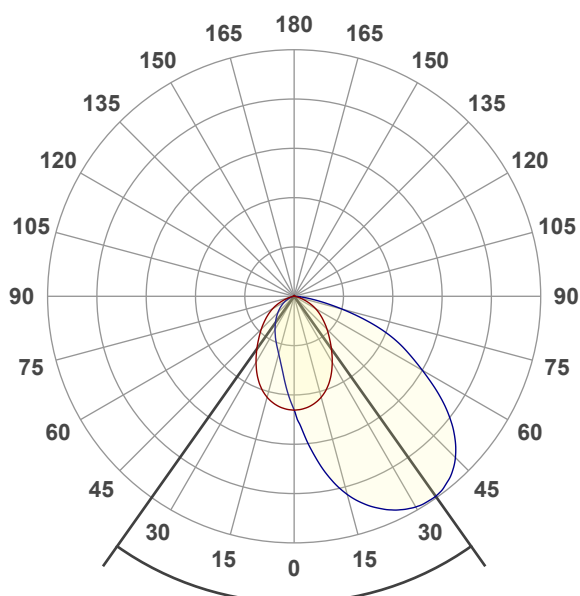
3200K HQ

Operator:

Giuseppe della Peruta

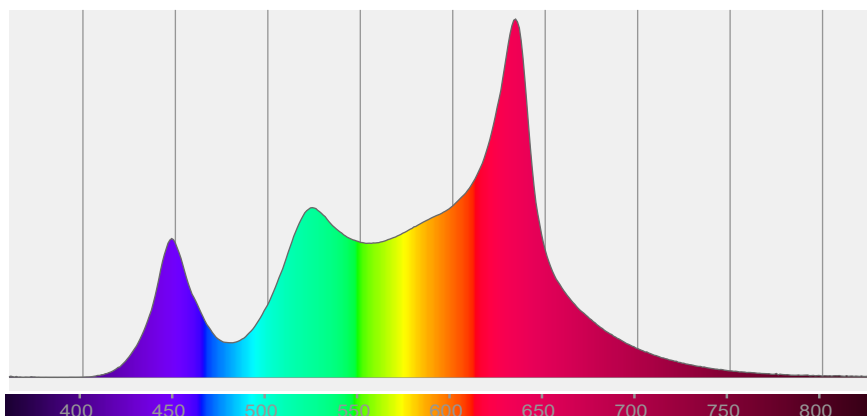
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22/09/2025 14:28:37

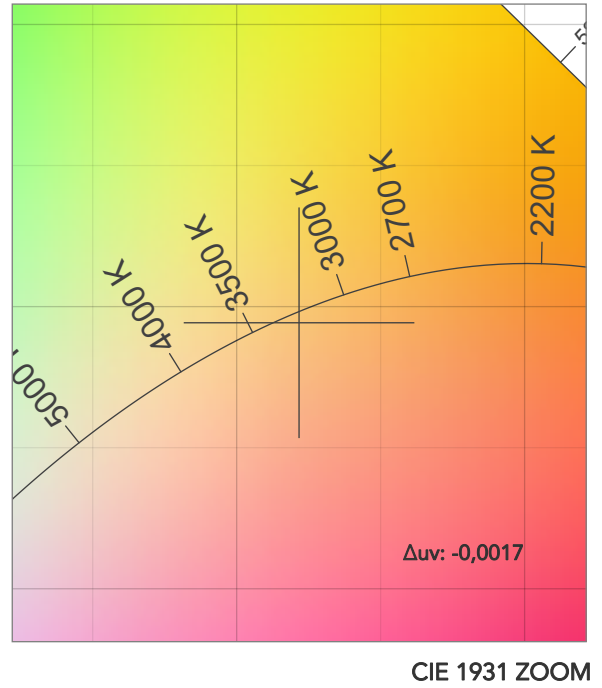
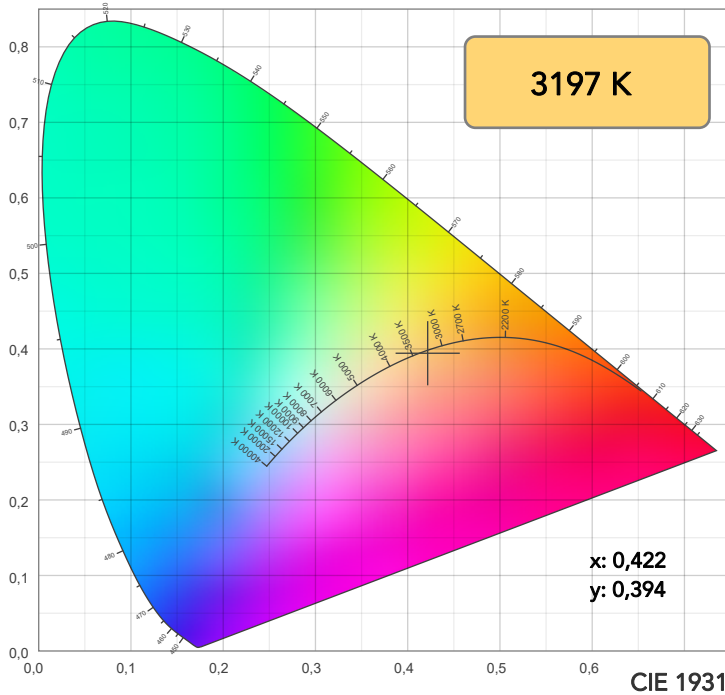


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	78,1°
Field angle 10%:	122,6°	139,2°
Cut off angle 2.5%:	151,9°	157,2°

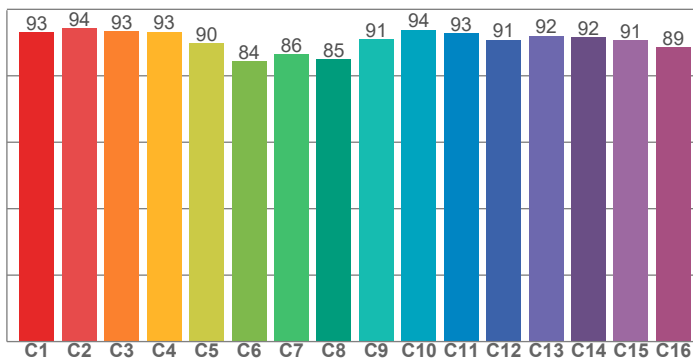
Spectra



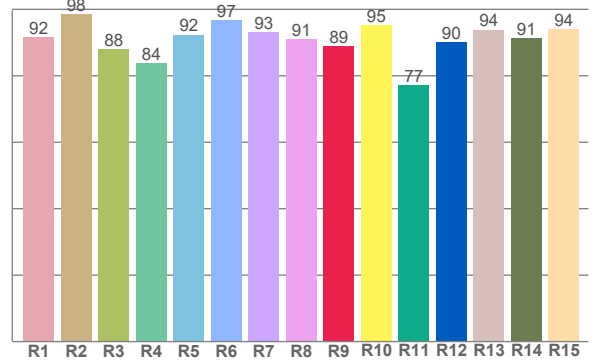
COLOR DETAILS



TM30: 91,2



CRI: 91,9 (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
91,7	98,5	88,1	83,8	92,4	96,7	93,0	91,0	89,0	95,2	77,1	90,1	93,9	91,4	94,1

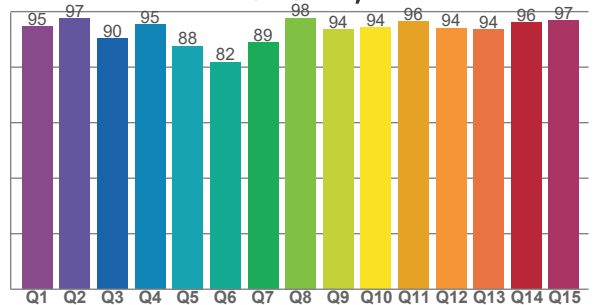
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,1	94,3	93,4	93,2	89,7	84,4	86,5	84,9	91,0	93,8	92,8	90,8	92,1	91,6	90,6	88,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,6	97,5	90,3	95,4	87,6	81,9	88,9	97,7	93,5	94,3	96,5	94,0	93,5	96,0	96,8

CQS: 91,8



COLOR PARAMETERS

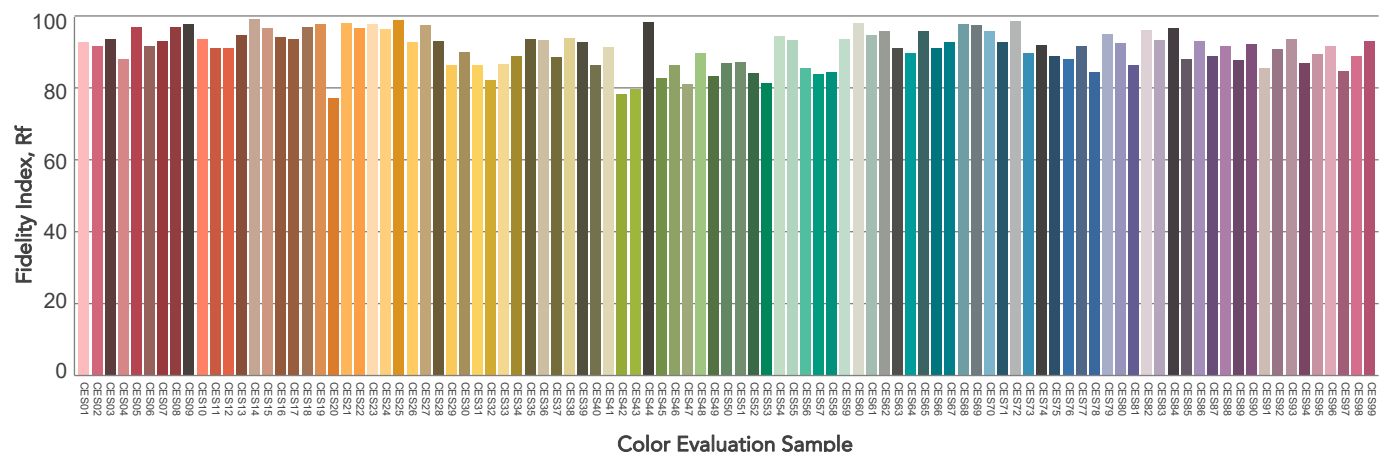
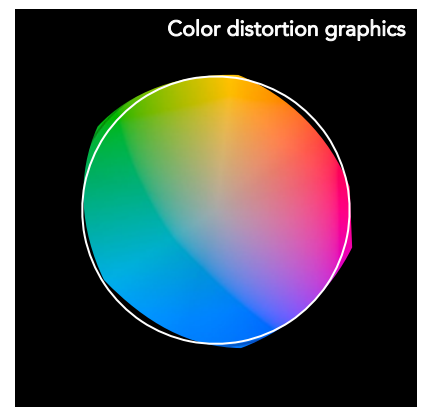
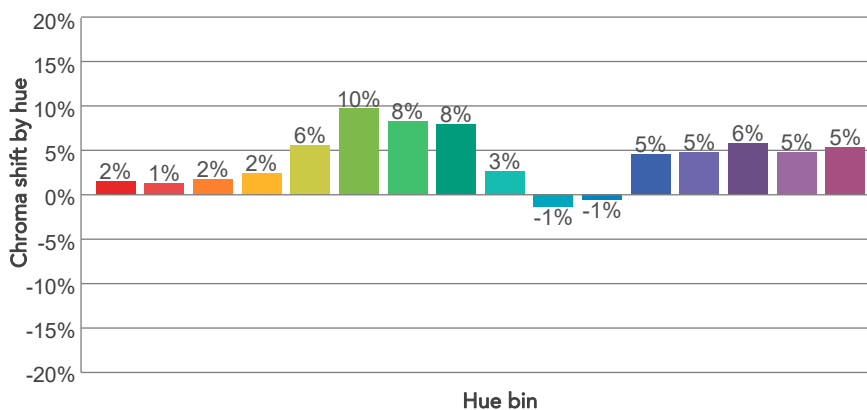
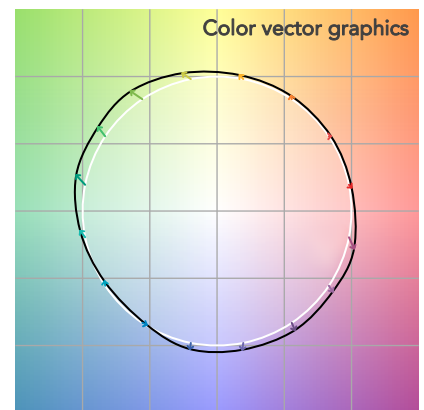
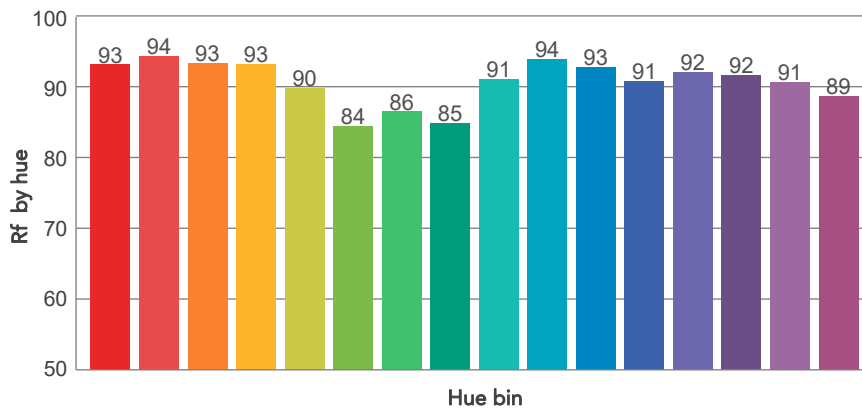
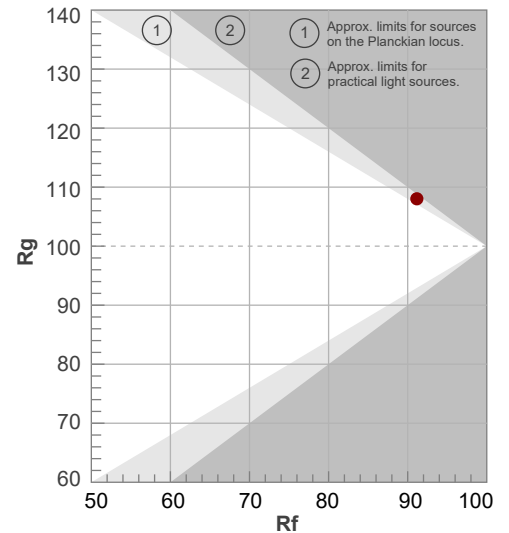
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3197 K	91,9	89,0	91,2	108,0	91,8	82	0,422	0,394	-0,0017

TM30 DETAILS

Rf 91,2
Fidelity index Rf

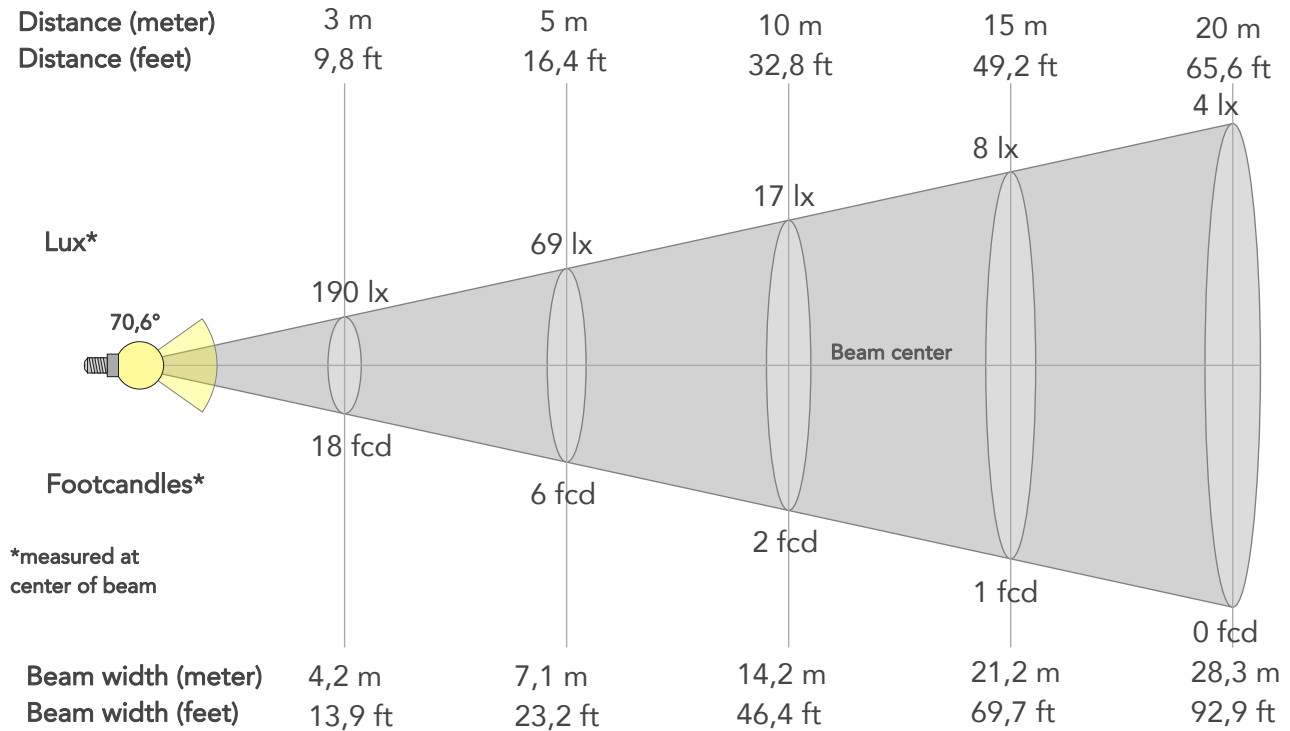
Rg 108,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	2%	-2%
2	94	1%	-1%
3	93	2%	2%
4	93	2%	3%
5	90	6%	5%
6	84	10%	4%
7	86	8%	-3%
8	85	8%	-6%
9	91	3%	-5%
10	94	-1%	-3%
11	93	-1%	4%
12	91	5%	0%
13	92	5%	-2%
14	92	6%	-1%
15	91	5%	-2%
16	89	5%	-7%



BEAM DETAILS

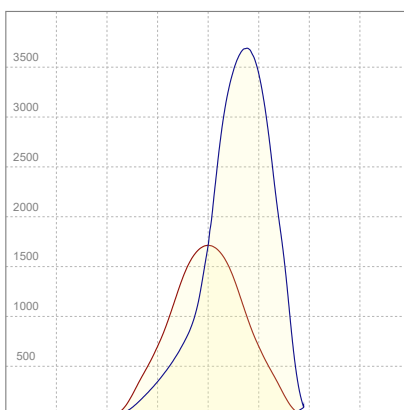
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,6°	130,9°	154,5°	82,6%	56,4%



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	1713lx	428lx	190lx	107lx	69lx	30lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	159fcd	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	14,2m	21,2m	28,3m	35,4m	42,5m	56,6m	70,8m
Beam wid.	4,7ft	9,3ft	13,9ft	18,6ft	23,2ft	34,8ft	46,4ft	69,7ft	92,9ft	116,1ft	139,3ft	185,8ft	232,2ft

LINEAR DISTRIBUTION DIAGRAM

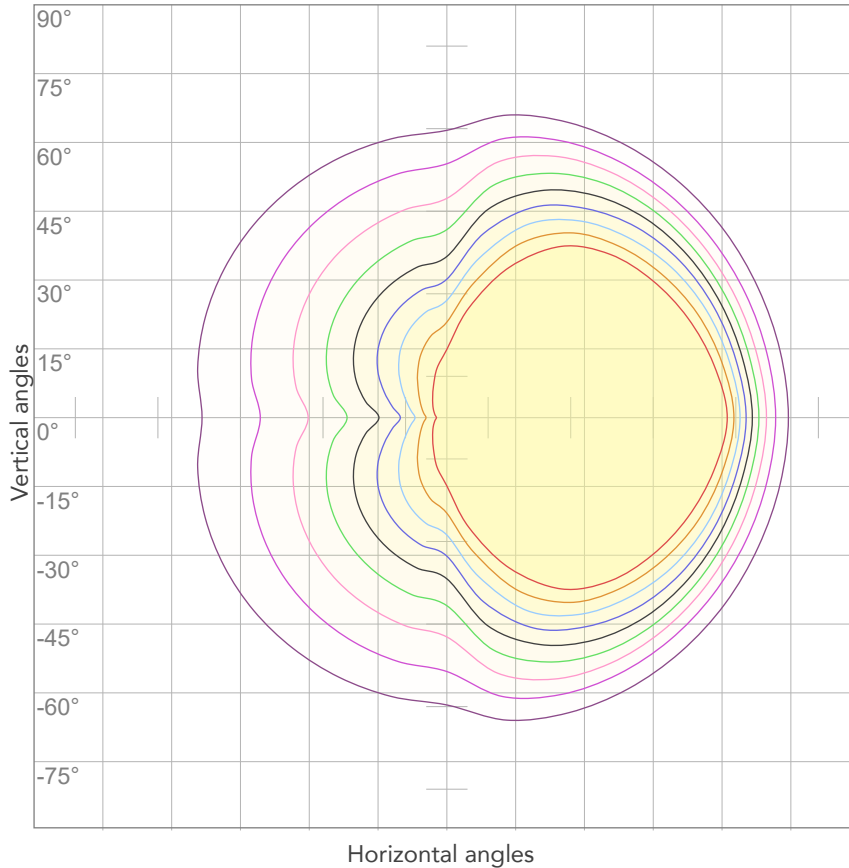


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,075A	11,0W	0,64	472lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



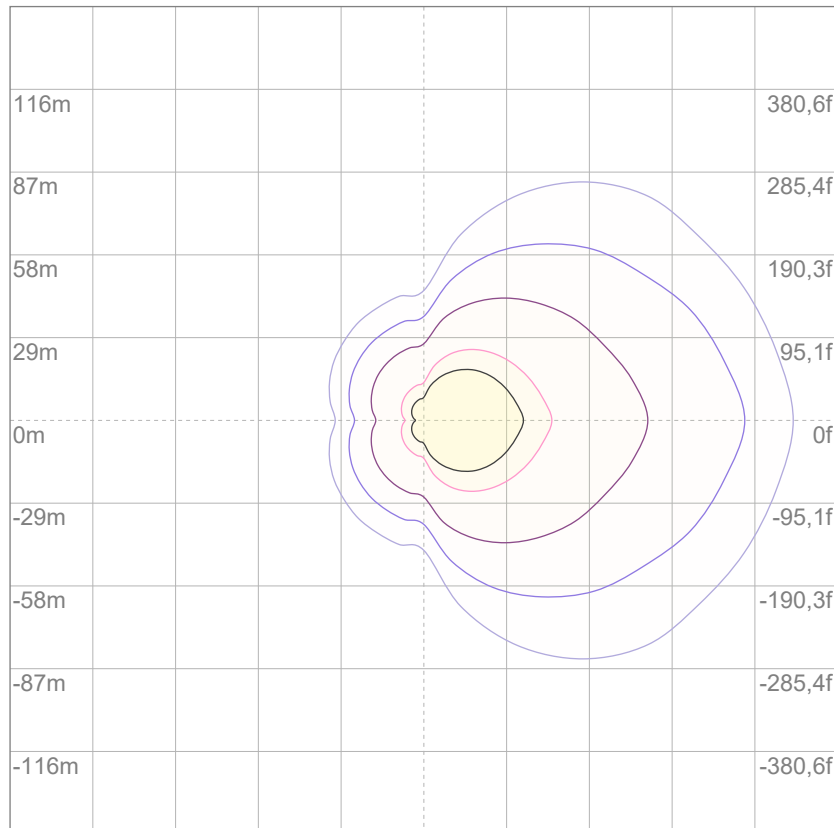
10%	171 cd
20%	343 cd
30%	514 cd
40%	685 cd
50%	857 cd
60%	1028 cd
70%	1199 cd
80%	1371 cd

Conditions:

Number of c-planes: 4

Candela at center: 1713 cd

ISO LUX DIAGRAM



3%	0,514 lx
5%	0,857 lx
10%	1,71 lx
30%	5,14 lx
50%	8,57 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,1 lx

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



Total lumen output:

5289 lm

Peak candela output:

3819 cd

Light quality:

CRI: 92,5

Color temperature:

4020 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

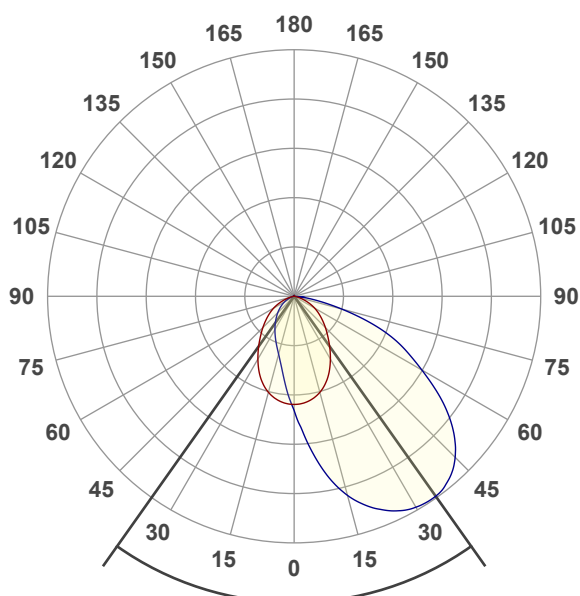
4000K HQ

Operator:

Giuseppe della Peruta

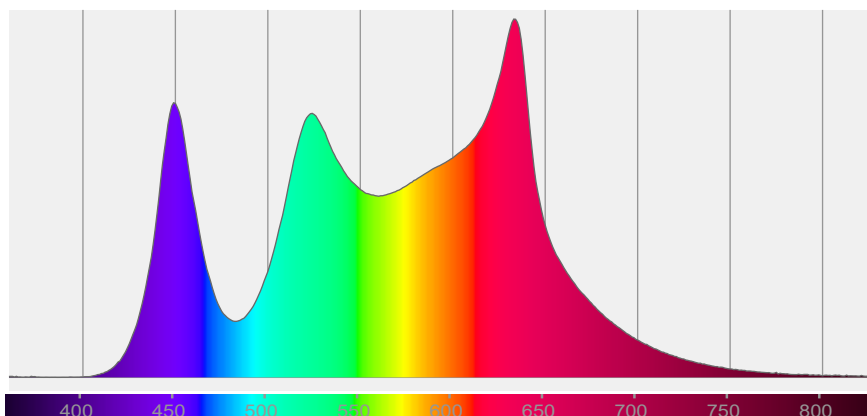
Date and time:

22/09/2025 14:52:46

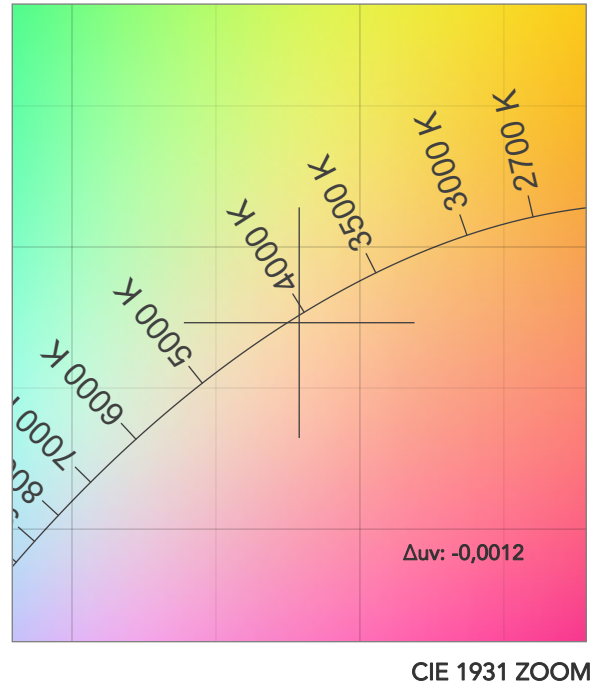
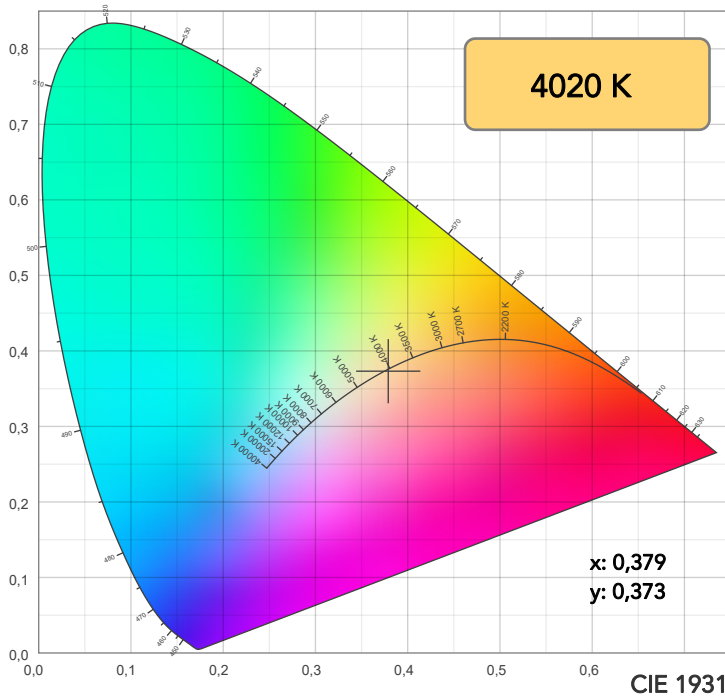


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	78,2°
Field angle 10%:	122,8°	139,3°
Cut off angle 2.5%:	152,1°	157,3°

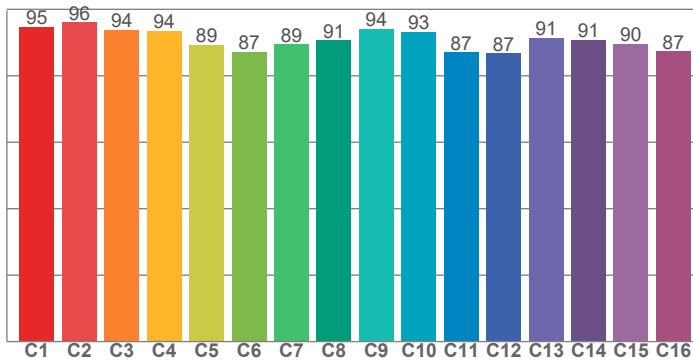
Spectra



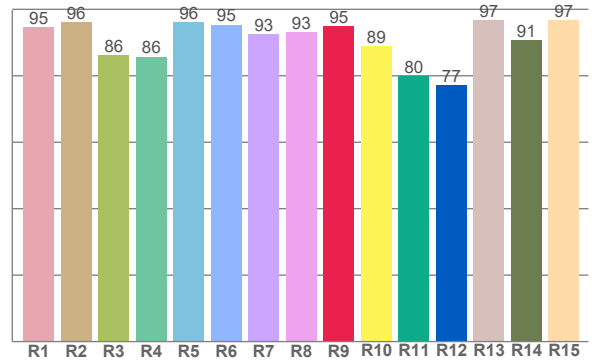
COLOR DETAILS



TM30: 91,2



CRI: 92,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,6	96,1	86,2	85,8	96,1	95,4	92,5	93,2	95,0	88,9	79,8	77,1	96,8	90,8	96,7

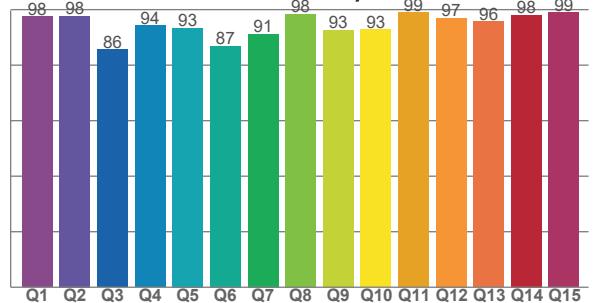
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,0	93,8	93,5	89,3	87,2	89,4	90,7	94,2	93,3	87,1	86,7	91,4	90,8	89,6	87,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,6	97,7	85,7	94,3	93,4	86,9	91,2	98,4	92,6	92,9	98,9	97,0	95,8	98,1	98,9

CQS: 93,3



COLOR PARAMETERS

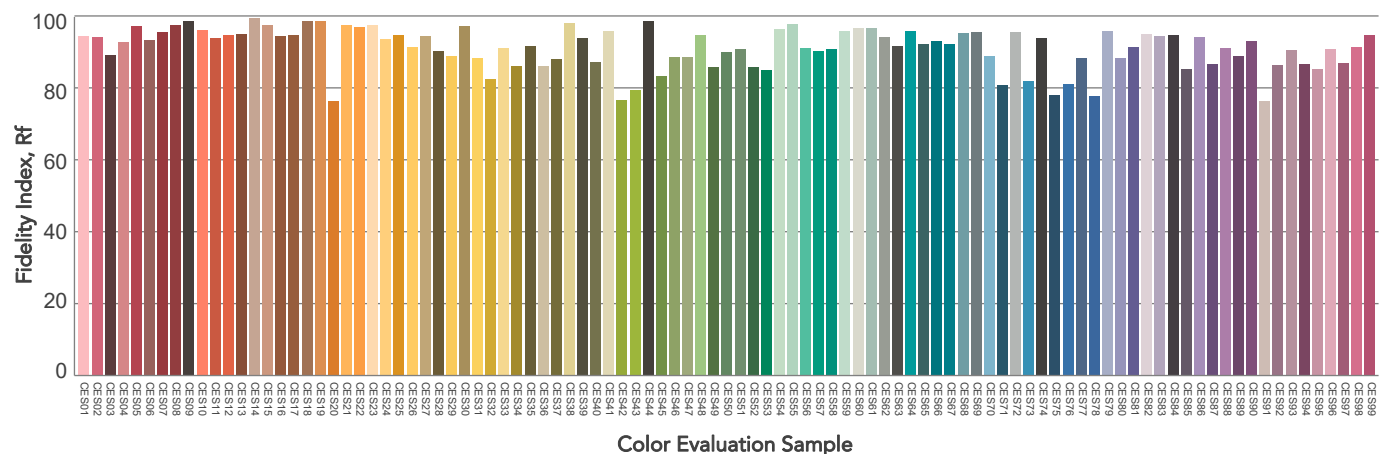
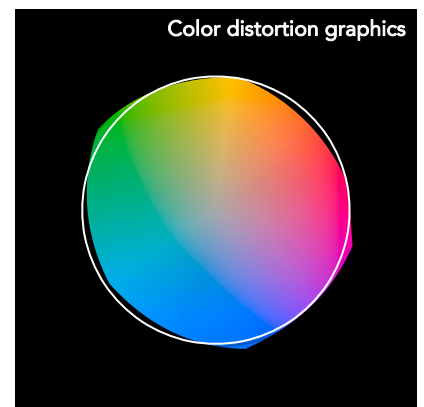
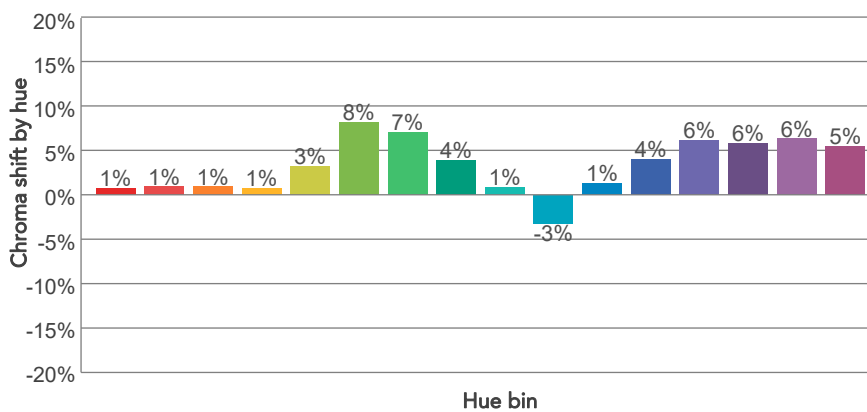
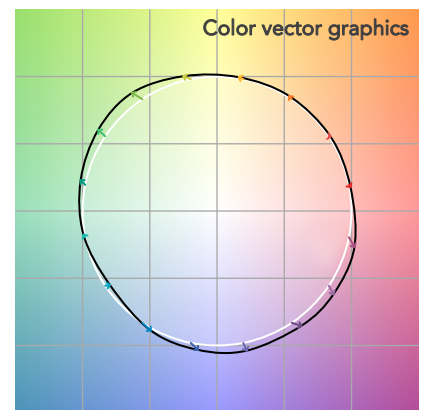
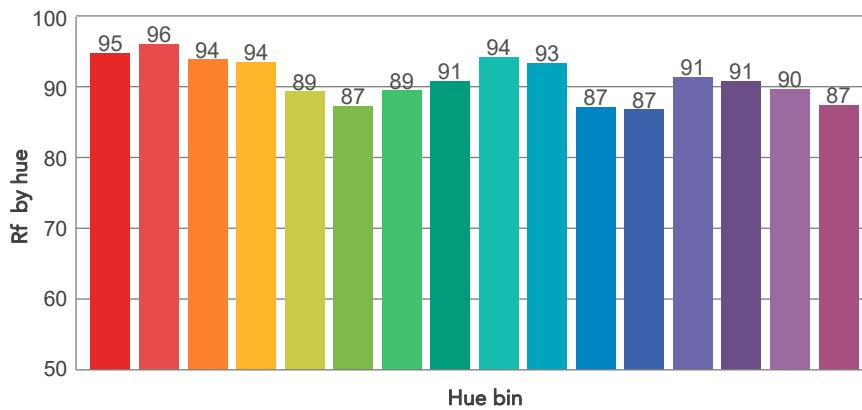
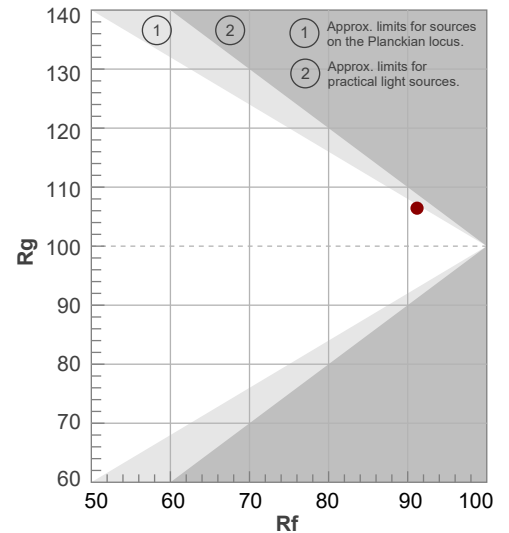
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4020 K	92,5	95,0	91,2	106,4	93,3	85	0,379	0,373	-0,0012

TM30 DETAILS

Rf 91,2
Fidelity index Rf

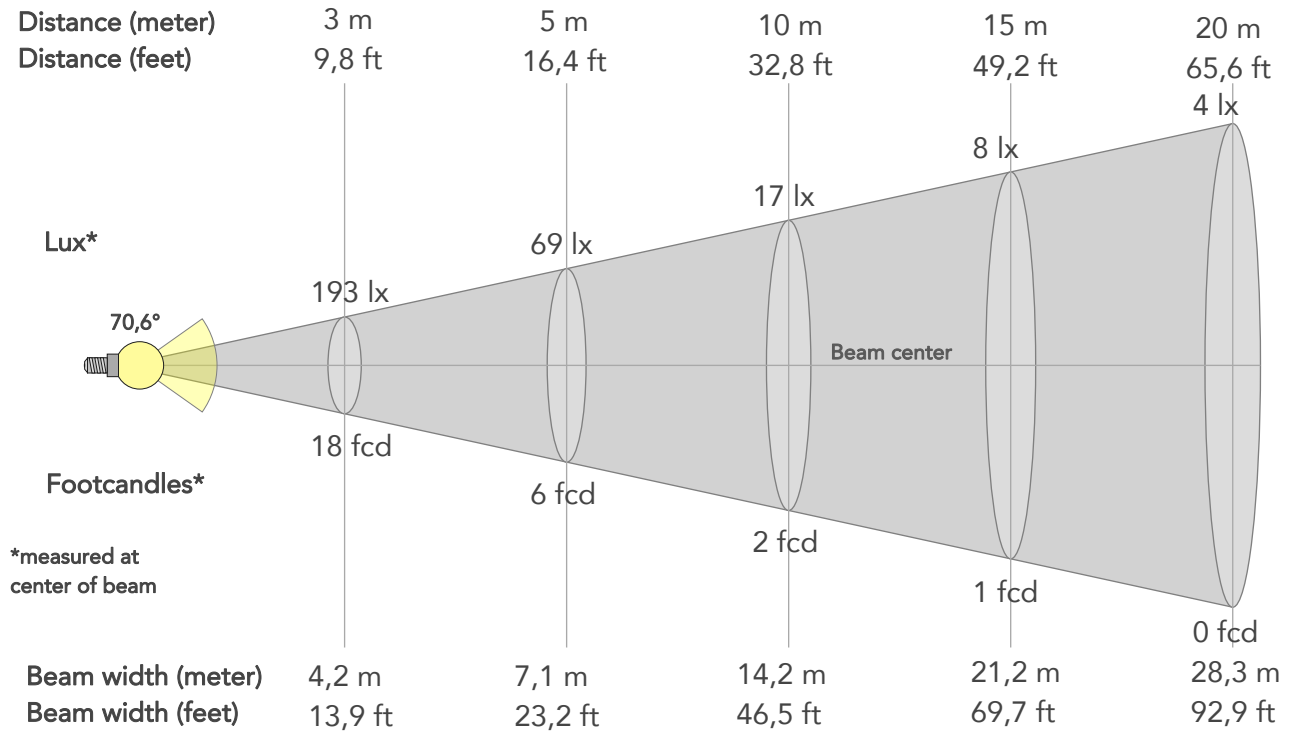
Rg 106,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	94	1%	3%
4	94	1%	4%
5	89	3%	5%
6	87	8%	4%
7	89	7%	-1%
8	91	4%	-3%
9	94	1%	-2%
10	93	-3%	2%
11	87	1%	8%
12	87	4%	6%
13	91	6%	1%
14	91	6%	5%
15	90	6%	-3%
16	87	5%	-6%



BEAM DETAILS

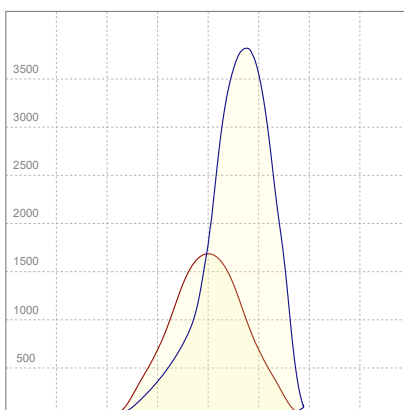
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,6°	131,1°	154,7°	82,5%	56,3%



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	1733lx	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	14,2m	21,2m	28,3m	35,4m	42,5m	56,7m	70,8m
Beam wid.	4,7ft	9,3ft	13,9ft	18,6ft	23,2ft	34,8ft	46,5ft	69,7ft	92,9ft	116,2ft	139,4ft	185,8ft	232,3ft

LINEAR DISTRIBUTION DIAGRAM

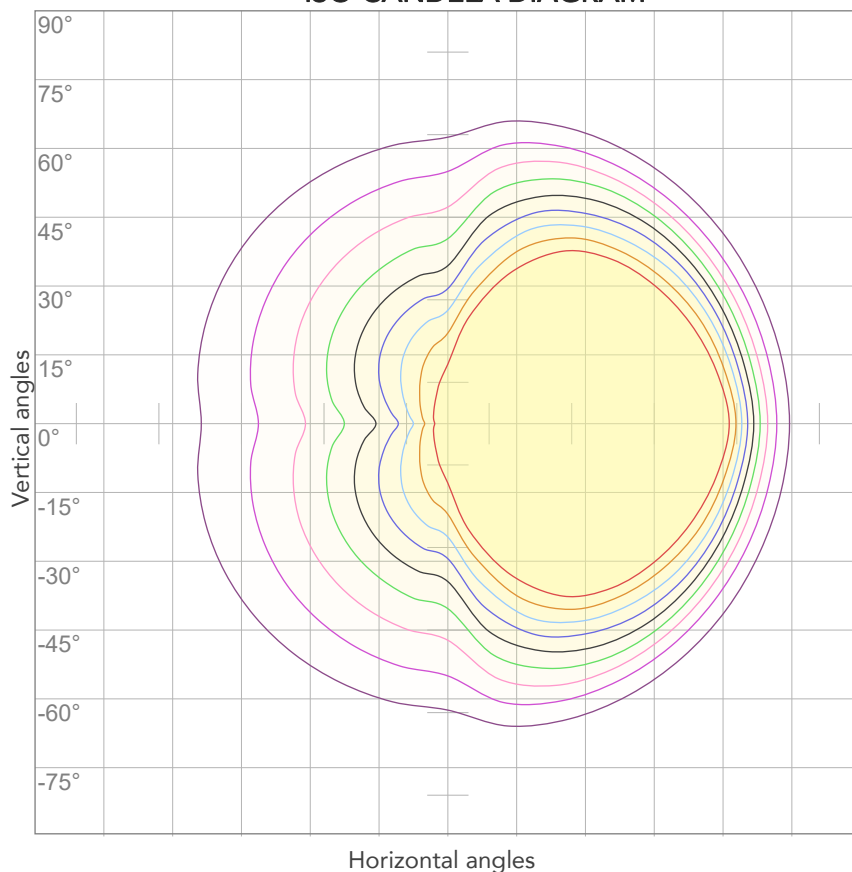


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,551A	123,2W	0,98	43lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



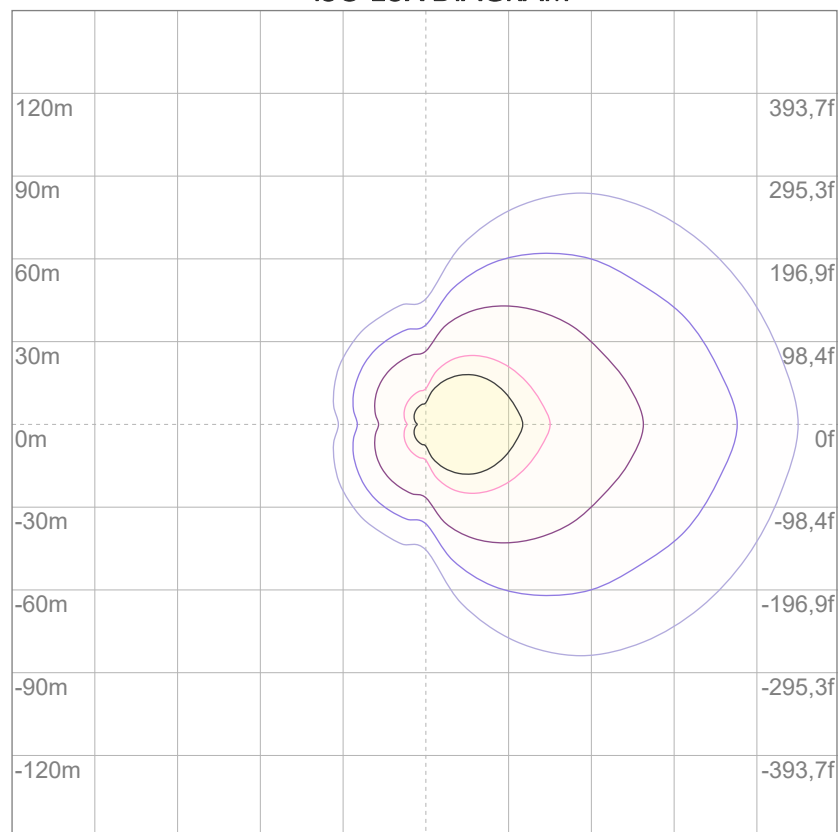
10%	173 cd
20%	347 cd
30%	520 cd
40%	693 cd
50%	867 cd
60%	1040 cd
70%	1213 cd
80%	1386 cd

Conditions:

Number of c-planes: 4

Candela at center: 1733 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:

5522 lm

Peak candela output:

3994 cd

Light quality:

CRI: 91,6

Color temperature:

5605 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

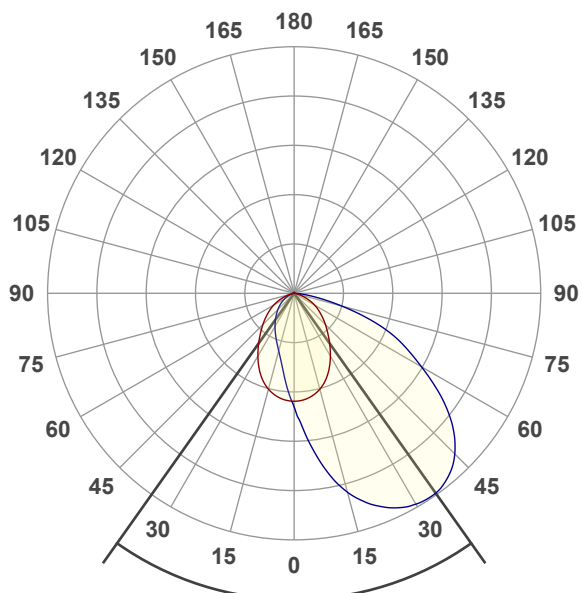
5600K HQ

Operator:

Giuseppe della Peruta

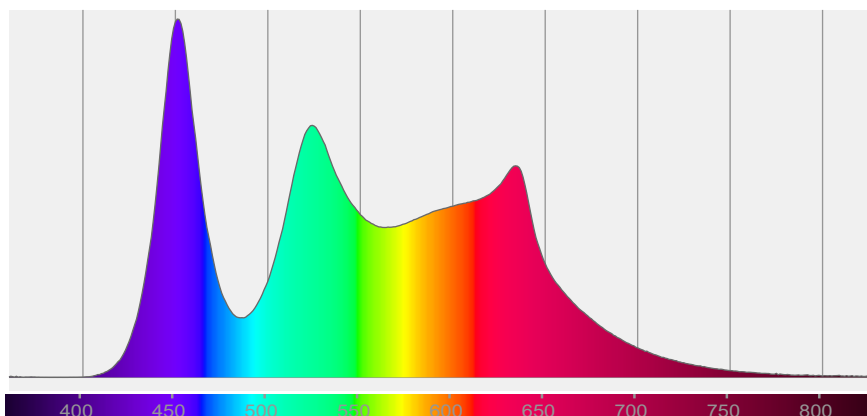
Date and time:

22/09/2025 15:09:07

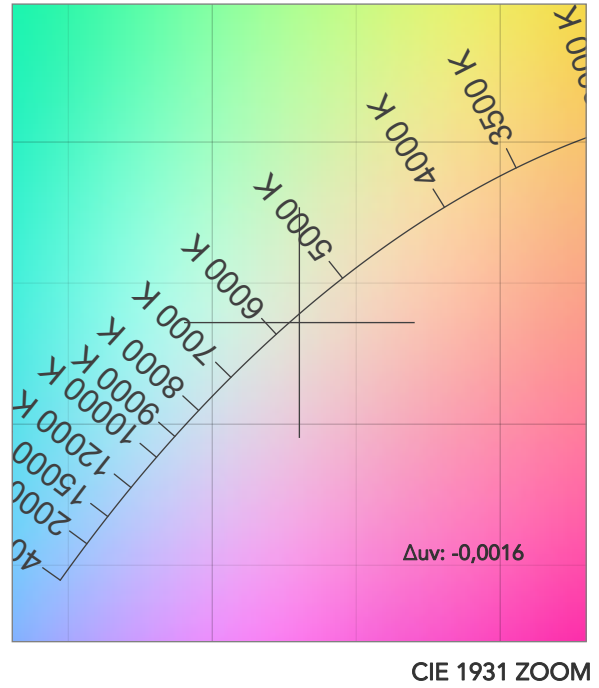
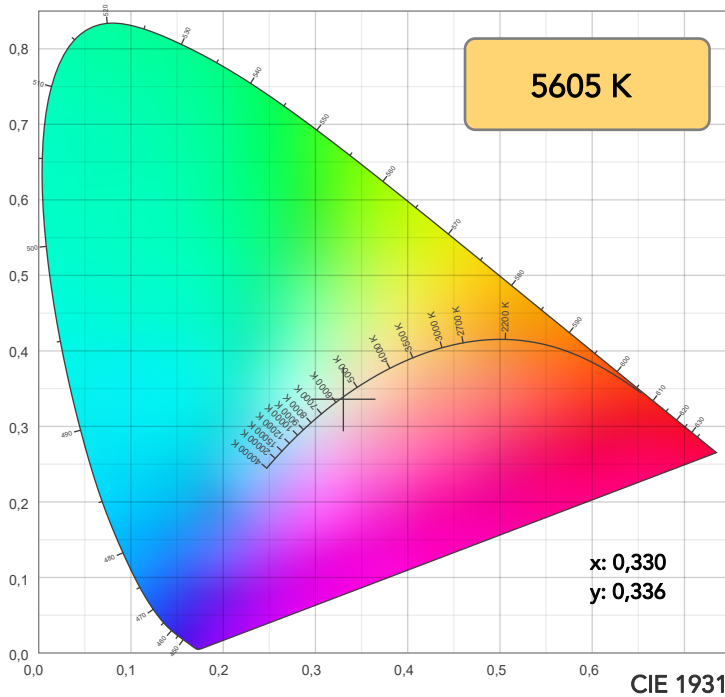


	Blue curve V	Red curve H
Beam angle 50%:	63°	78,3°
Field angle 10%:	122,6°	139,2°
Cut off angle 2.5%:	151,9°	157,4°

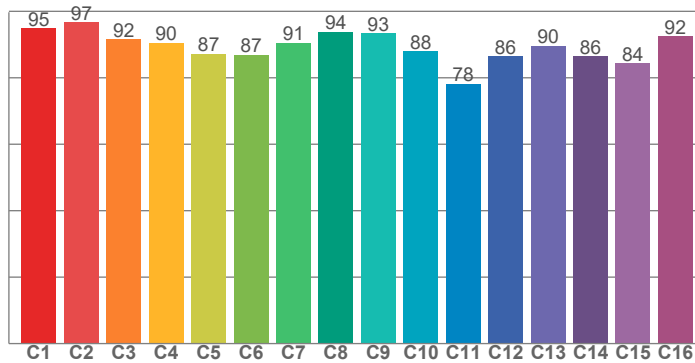
Spectra



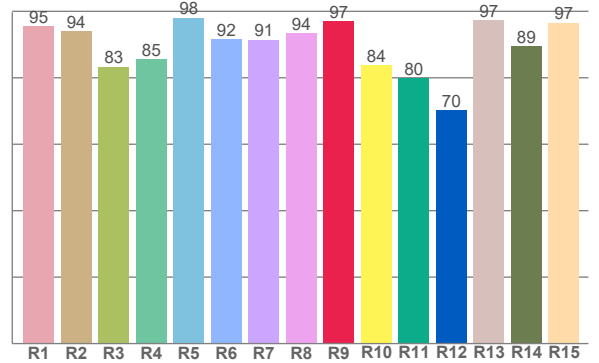
COLOR DETAILS



TM30: 89,3



CRI: 91,6 (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
95,5	94,0	83,3	85,5	98,1	91,6	91,5	93,5	96,9	83,7	79,8	70,3	97,4	89,4	96,6

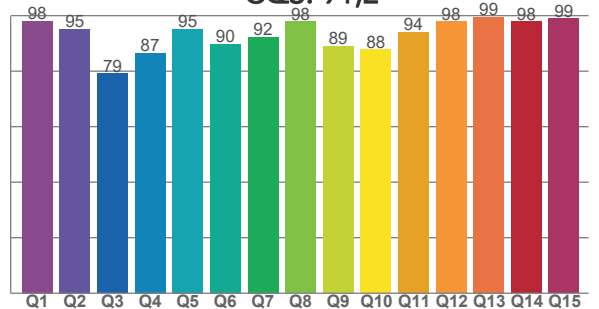
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	96,7	91,6	90,5	87,2	86,9	90,6	93,8	93,4	87,9	78,3	86,5	89,6	86,4	84,3	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,1	95,1	79,2	86,6	95,1	89,7	92,3	97,8	89,0	87,8	94,1	97,9	99,5	97,9	99,0

CQS: 91,2



COLOR PARAMETERS

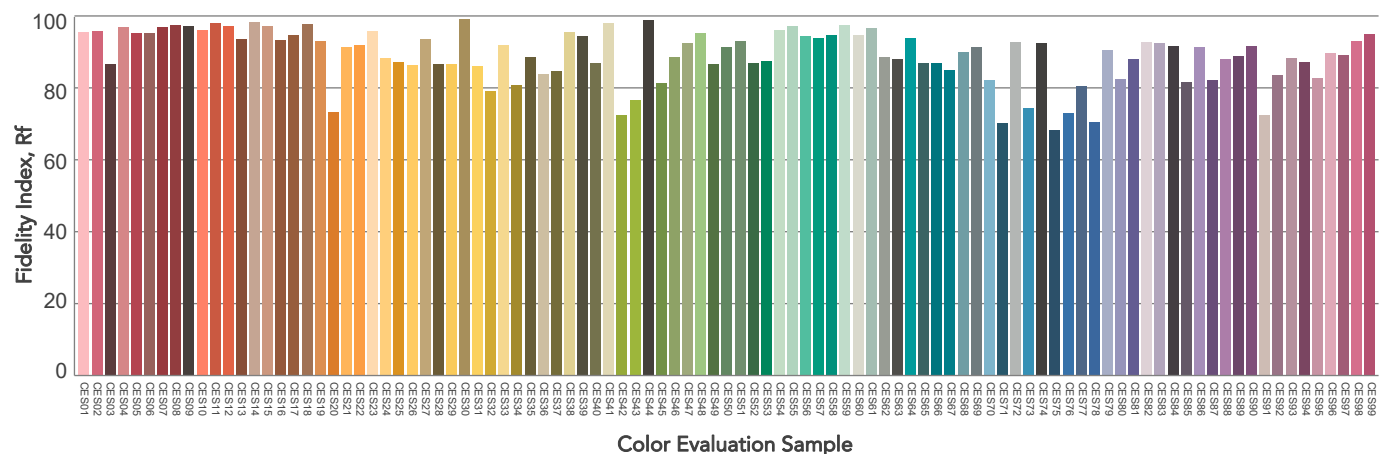
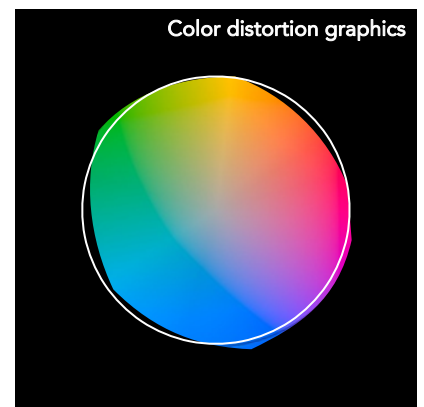
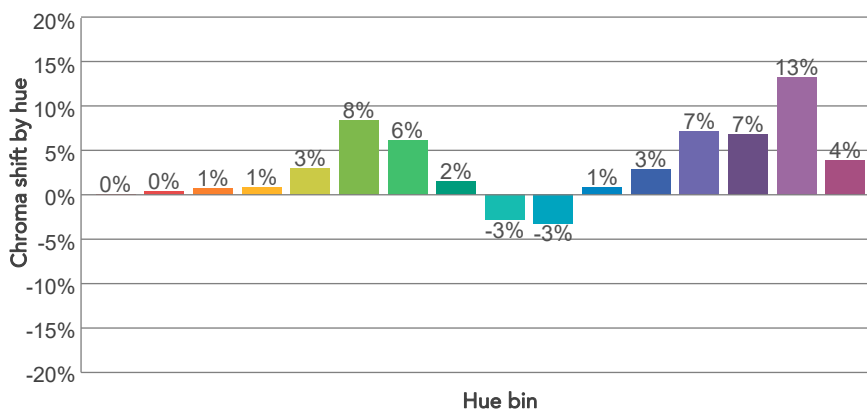
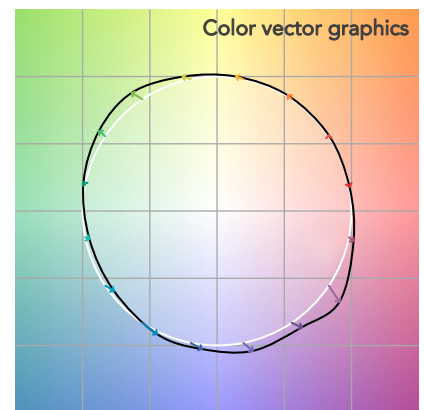
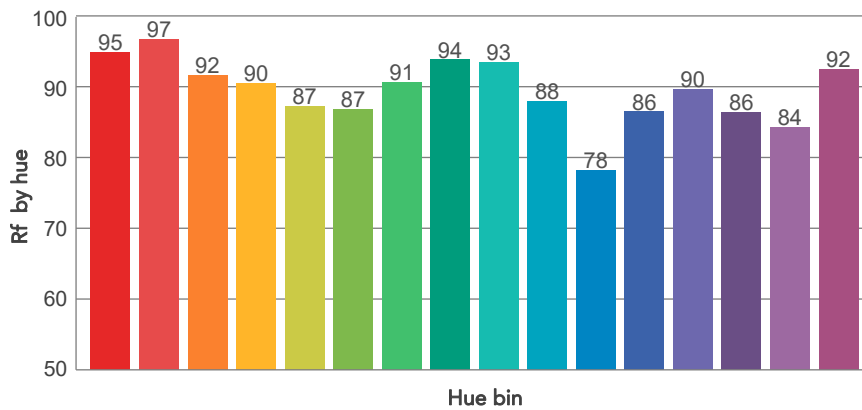
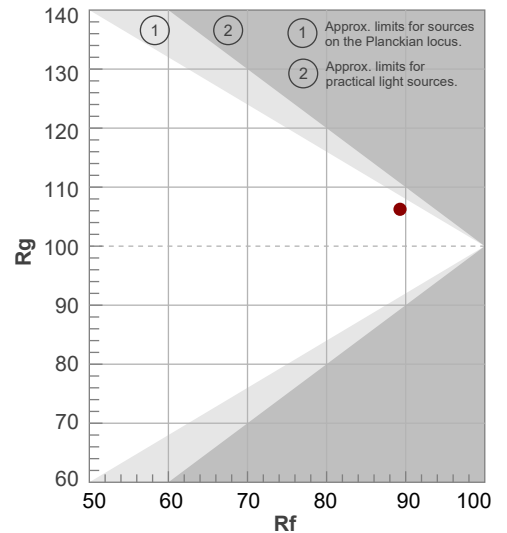
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5605 K	91,6	96,9	89,3	106,2	91,2	90	0,330	0,336	-0,0016

TM30 DETAILS

Rf 89,3
Fidelity index Rf

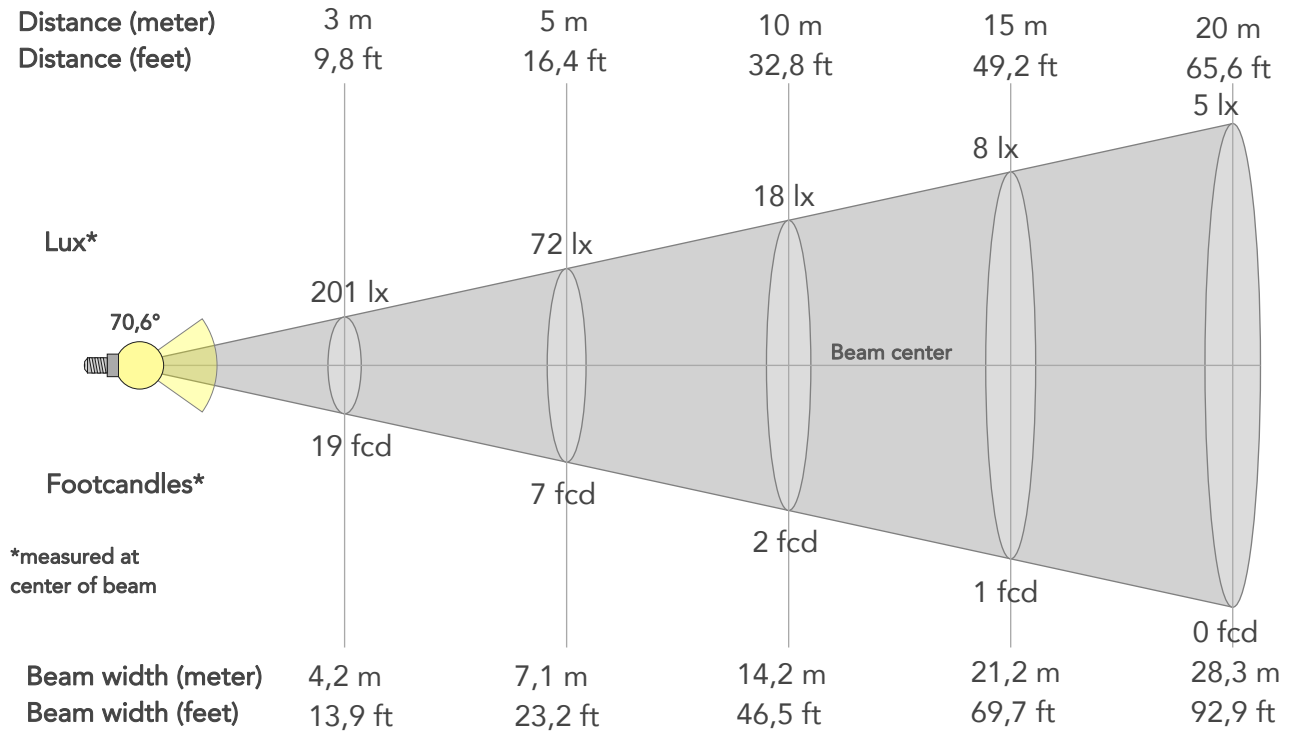
Rg 106,2
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	0%	1%
3	92	1%	4%
4	90	1%	6%
5	87	3%	6%
6	87	8%	4%
7	91	6%	-1%
8	94	2%	-2%
9	93	-3%	2%
10	88	-3%	7%
11	78	1%	14%
12	86	3%	9%
13	90	7%	6%
14	86	7%	4%
15	84	13%	-6%
16	92	4%	-2%



BEAM DETAILS

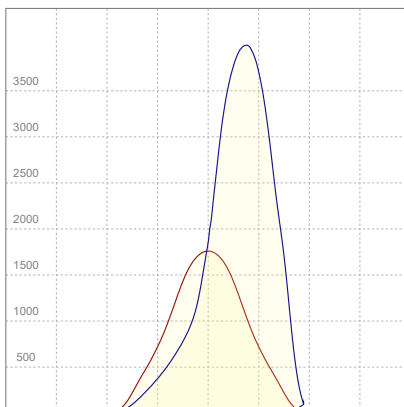
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,6°	130,9°	154,7°	82,5%	56,3%



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	1807lx	452lx	201lx	113lx	72lx	32lx	18lx	8lx	5lx	3lx	2lx	1lx	1lx
Footcand.	168fcd	42fcd	19fcd	10fcd	7fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,4m	2,8m	4,2m	5,7m	7,1m	10,6m	14,2m	21,2m	28,3m	35,4m	42,5m	56,7m	70,8m
Beam wid.	4,7ft	9,3ft	13,9ft	18,6ft	23,2ft	34,8ft	46,5ft	69,7ft	92,9ft	116,2ft	139,4ft	185,9ft	232,3ft

LINEAR DISTRIBUTION DIAGRAM

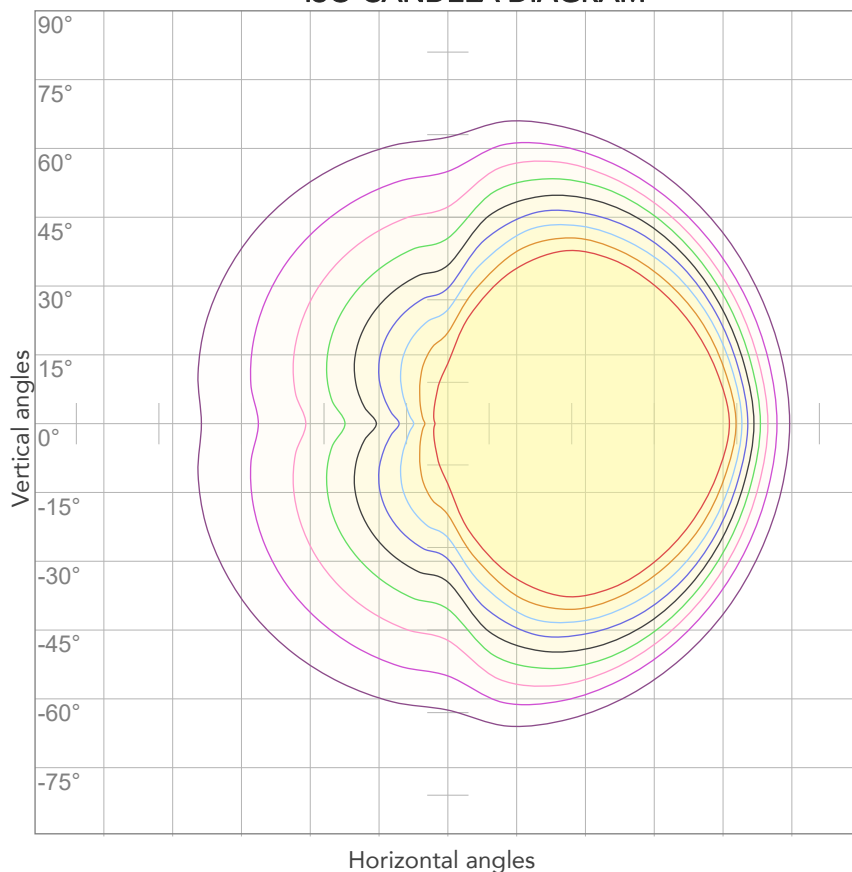


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,600A	134,5W	0,98	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



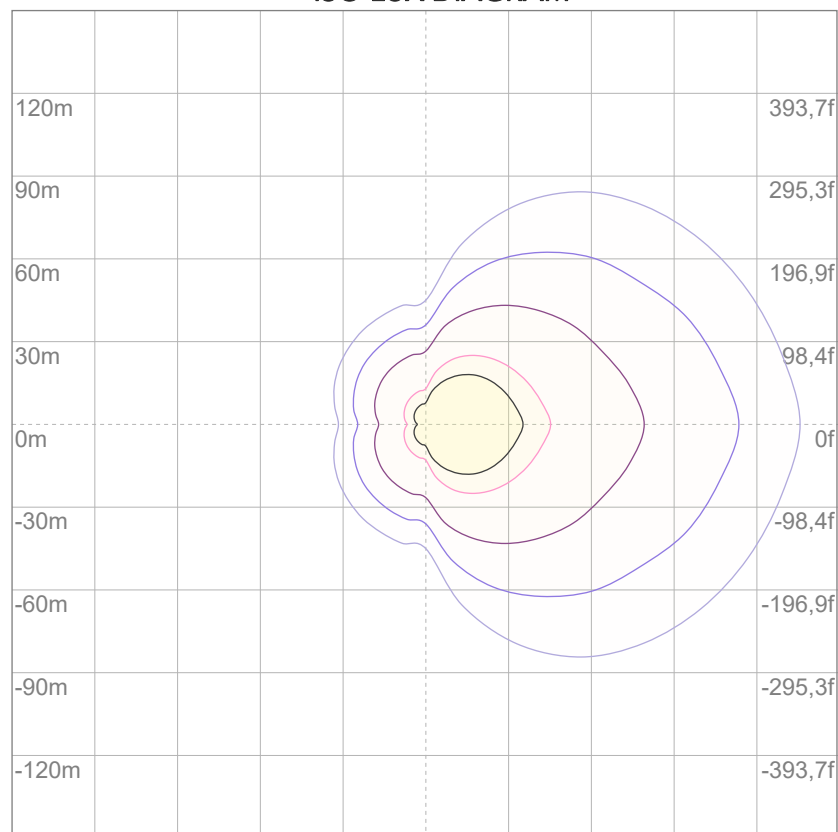
10%	181 cd
20%	361 cd
30%	542 cd
40%	723 cd
50%	903 cd
60%	1084 cd
70%	1265 cd
80%	1445 cd

Conditions:

Number of c-planes: 4

Candela at center: 1807 cd

ISO LUX DIAGRAM



3%	0,542 lx
5%	0,903 lx
10%	1,81 lx
30%	5,42 lx
50%	9,03 lx

Conditions:

Number of c-planes: 4

Lux at center: 18,1 lx

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



Total lumen output:

5288 lm

Peak candela output:

3829 cd

Light quality:

CRI: 91,6

Color temperature:

5998 K

PRODUCT NAME:

ECLEXPFL150IPFC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

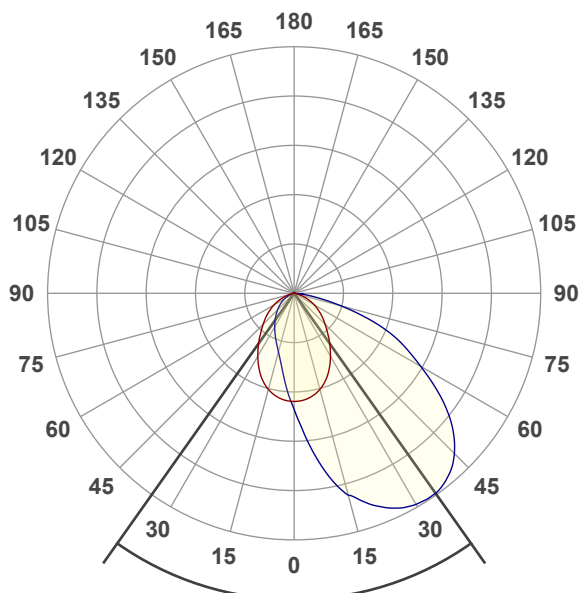
6000K HQ

Operator:

Giuseppe della Peruta

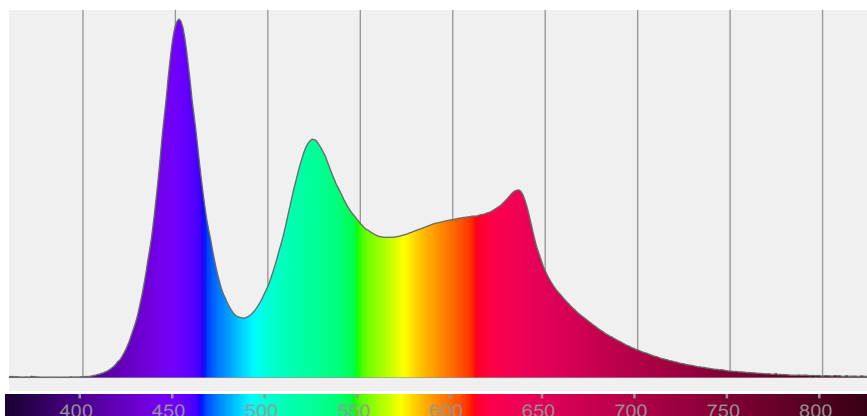
Date and time:

22/09/2025 15:28:56

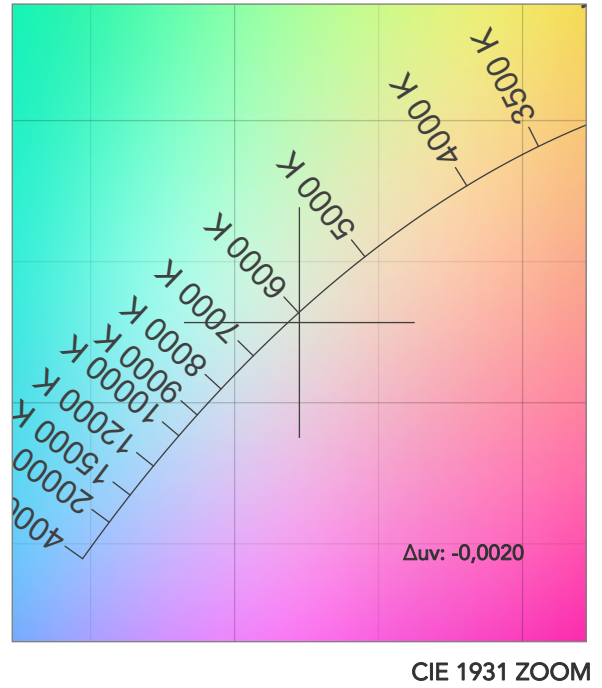
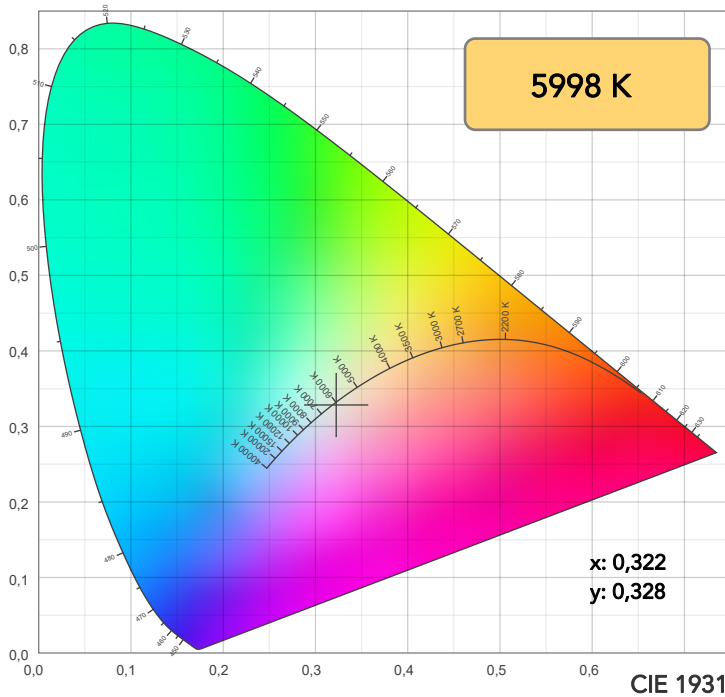


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	77,9°
Field angle 10%:	123°	139,1°
Cut off angle 2.5%:	152°	157,3°

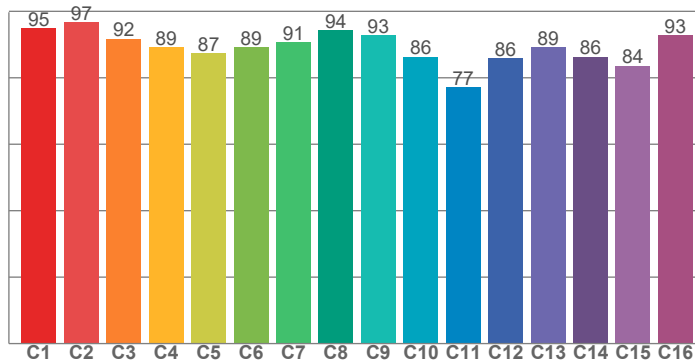
Spectra



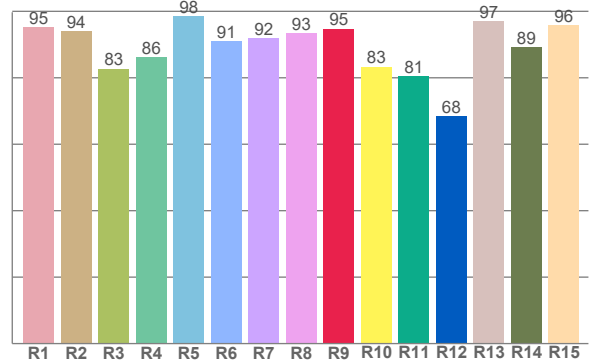
COLOR DETAILS



TM30: 89,1



CRI: 91,6 (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
95,2	94,1	82,8	86,2	98,5	91,1	91,9	93,4	94,8	83,3	80,5	68,4	97,1	89,1	95,9

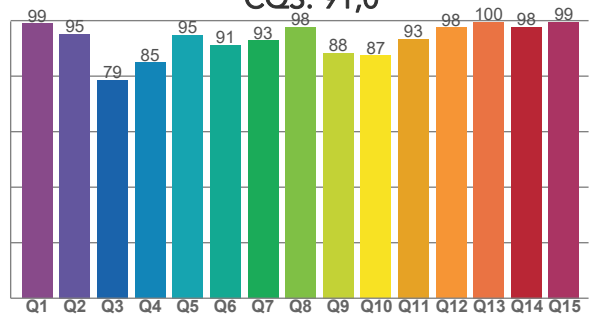
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,9	96,6	91,8	89,2	87,4	89,3	90,6	94,4	92,9	86,3	77,1	85,9	89,2	86,4	83,6	92,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,9	95,2	78,6	84,8	94,9	91,2	92,9	97,6	88,4	87,4	93,4	97,6	99,5	97,8	99,5

CQS: 91,0



COLOR PARAMETERS

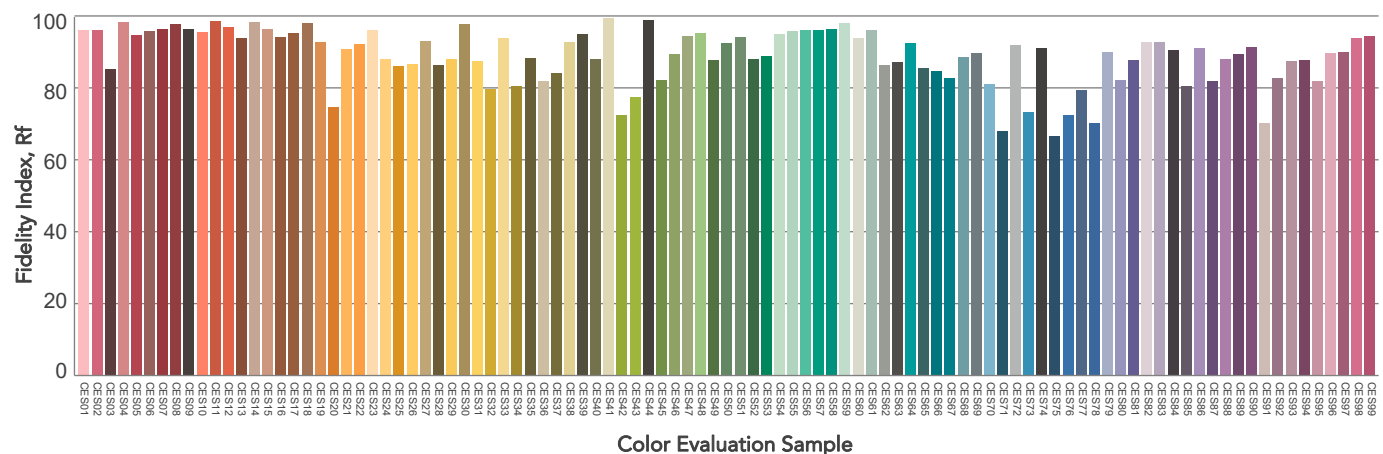
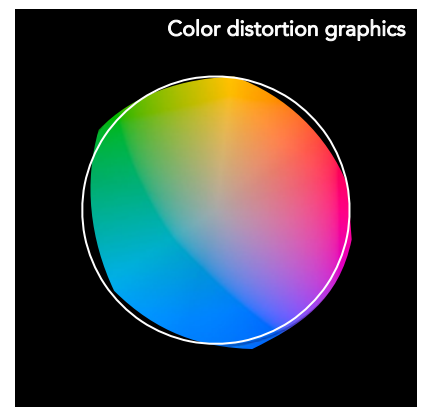
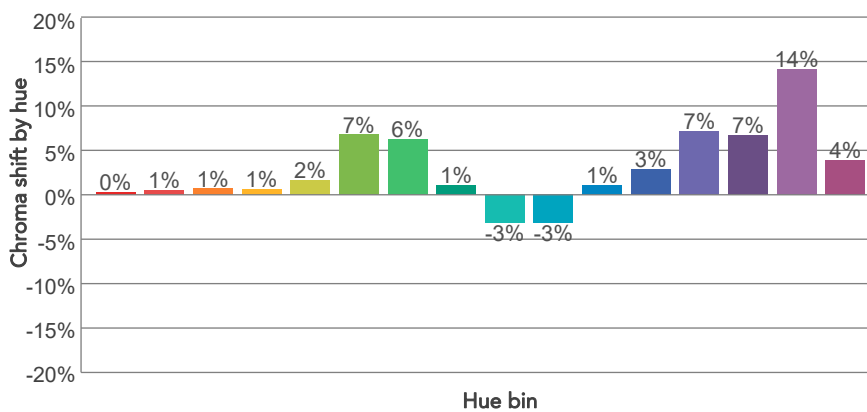
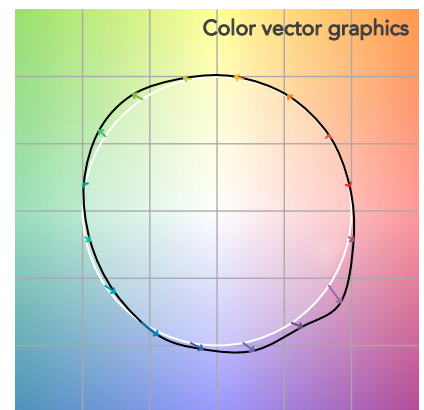
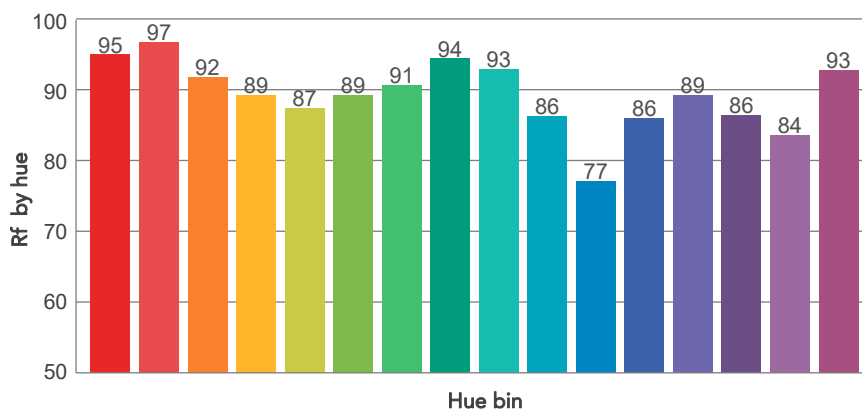
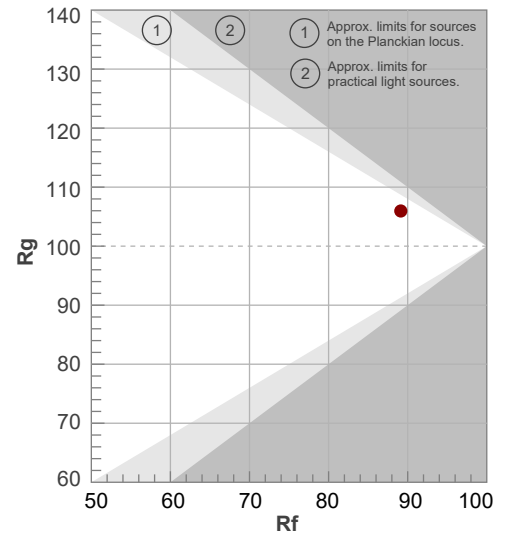
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5998 K	91,6	94,8	89,1	106,0	91,0	91	0,322	0,328	-0,0020

TM30 DETAILS

Rf 89,1
Fidelity index Rf

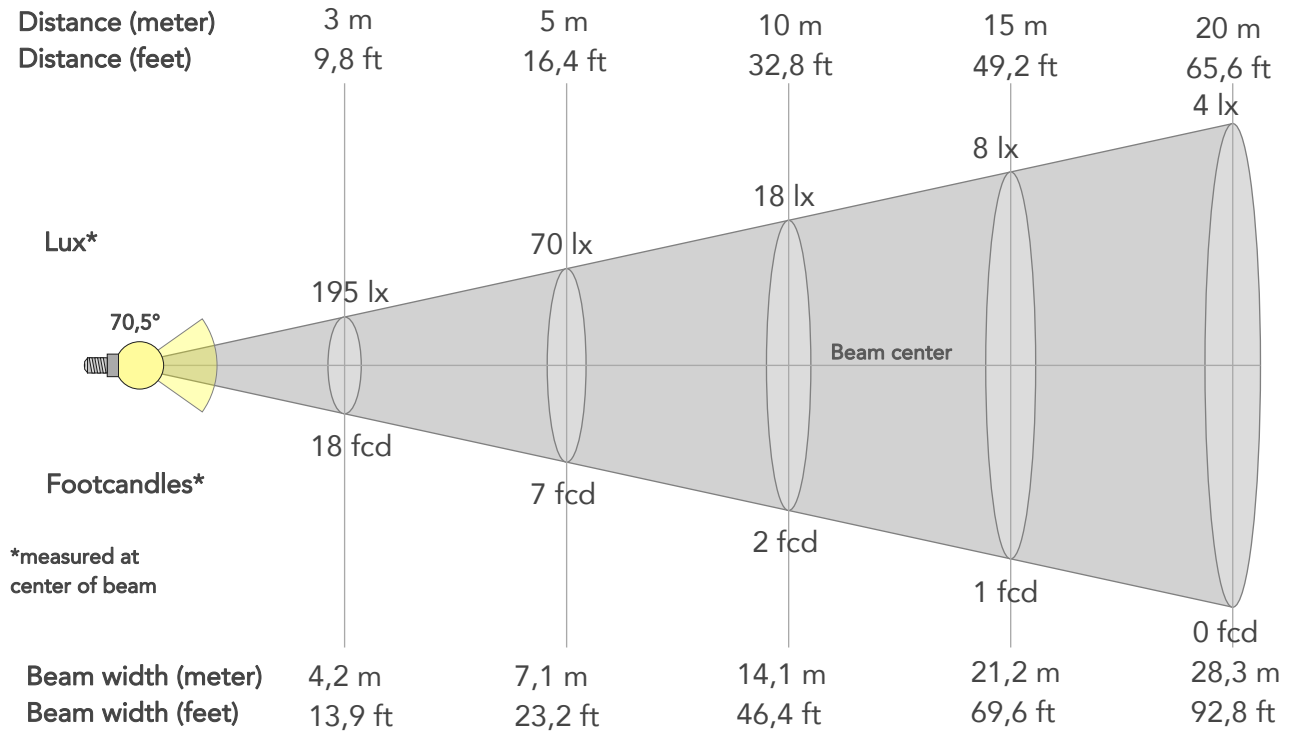
Rg 106,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	1%	1%
3	92	1%	4%
4	89	1%	6%
5	87	2%	5%
6	89	7%	4%
7	91	6%	-1%
8	94	1%	-1%
9	93	-3%	3%
10	86	-3%	8%
11	77	1%	14%
12	86	3%	9%
13	89	7%	6%
14	86	7%	5%
15	84	14%	-5%
16	93	4%	-2%



BEAM DETAILS

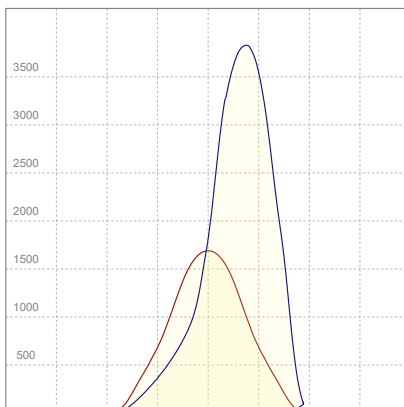
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70,5°	131°	154,7°	82,6%	56,5%



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	1751lx	438lx	195lx	109lx	70lx	31lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	163fcd	41fcd	18fcd	10fcd	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	35,4m	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

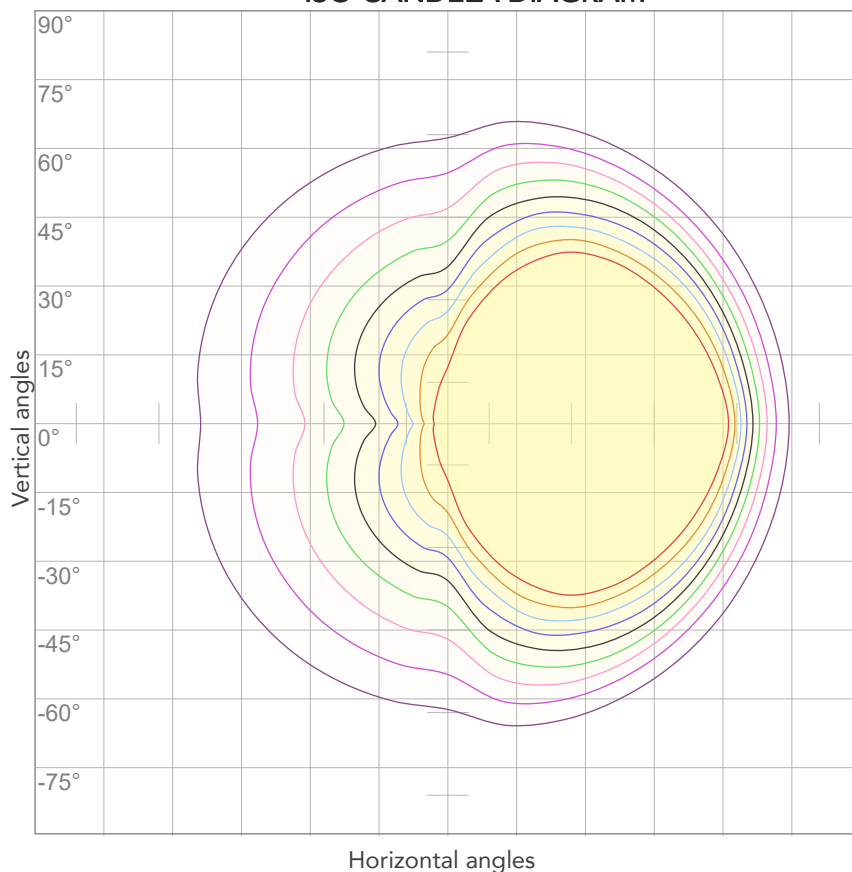


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,609A	136,5W	0,98	39lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



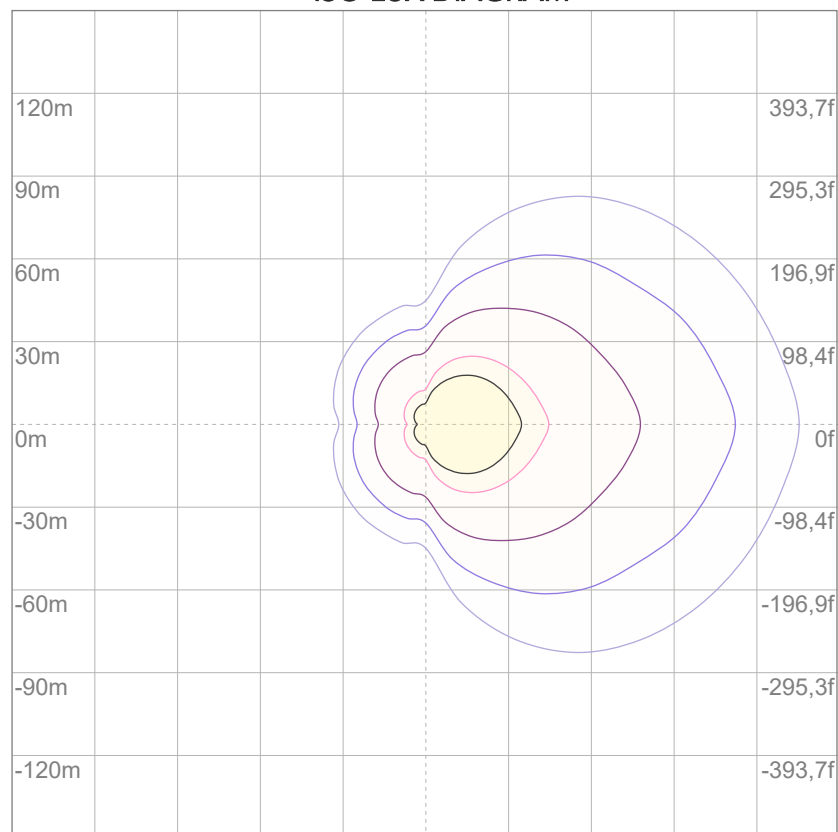
10%	175 cd
20%	350 cd
30%	525 cd
40%	701 cd
50%	876 cd
60%	1051 cd
70%	1226 cd
80%	1401 cd

Conditions:

Number of c-planes: 4

Candela at center: 1751 cd

ISO LUX DIAGRAM



3%	0,525 lx
5%	0,876 lx
10%	1,75 lx
30%	5,25 lx
50%	8,76 lx

Conditions:

Number of c-planes: 4

Lux at center: 17,5 lx

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