

Photometric Test Report



EclExpoFlood 150IPVW

IP65 150W asymmetric LED floodlight, with
Variable White CCT 2,700K - 6,500K

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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:

8928 lm

Peak candela output:

7123 cd

Light quality:

CRI: 93,8

Color temperature:

4347 K

PRODUCT NAME:

ECLEXPOFL150IPWW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

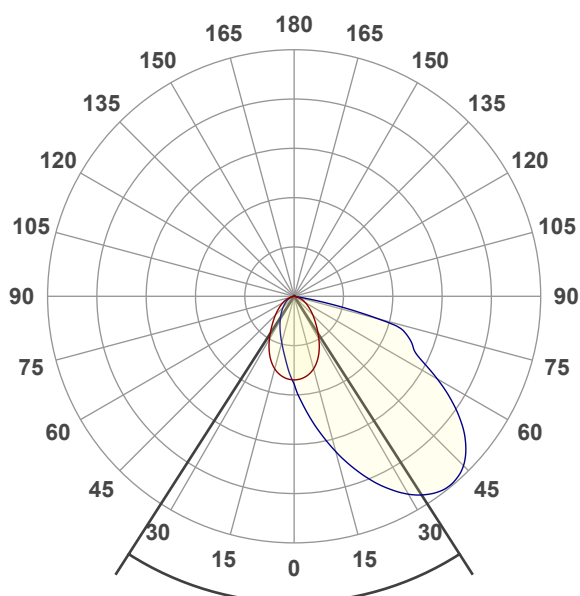
Full On

Operator:

Giuseppe della Peruta

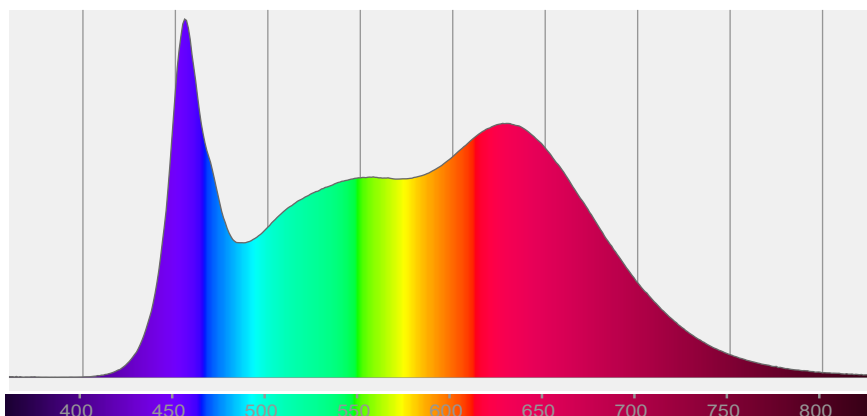
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07/10/2025 17:15:33

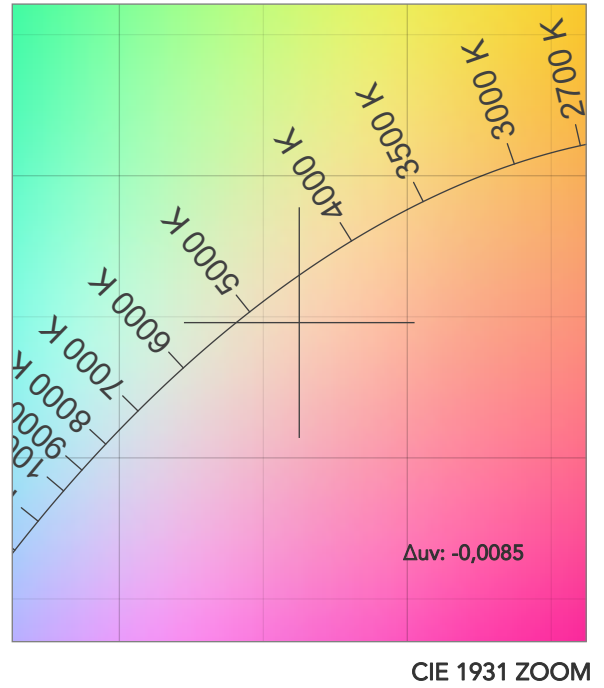
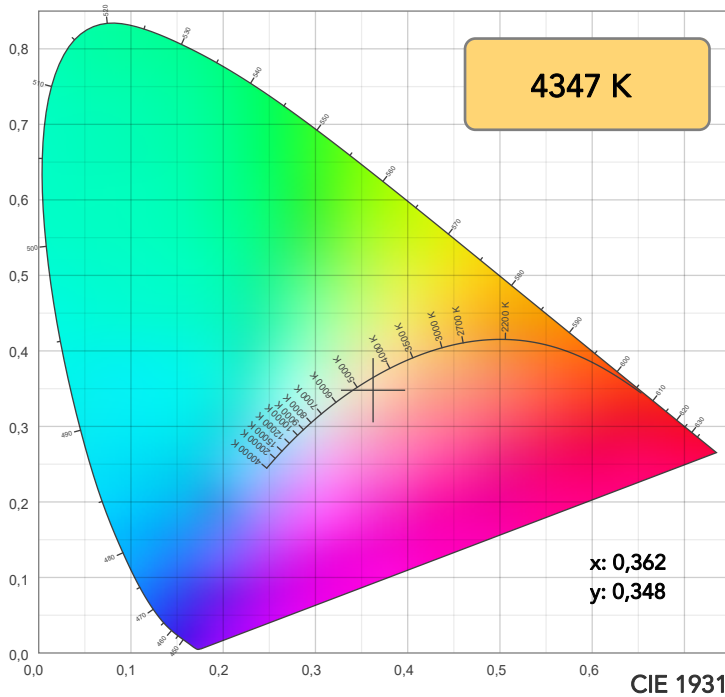


	Blue curve V	Red curve H
Beam angle 50%:	62,4°	68,3°
Field angle 10%:	112,6°	134,7°
Cut off angle 2.5%:	144,9°	152,8°

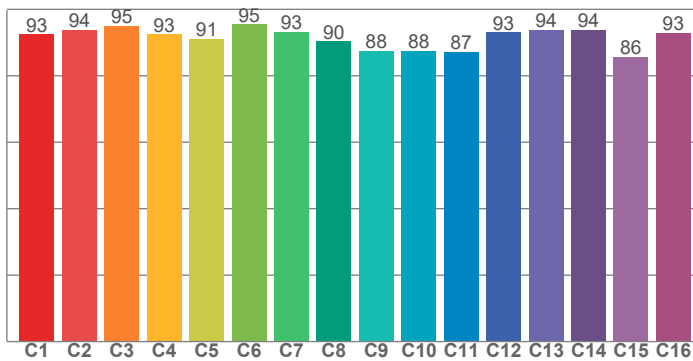
Spectra



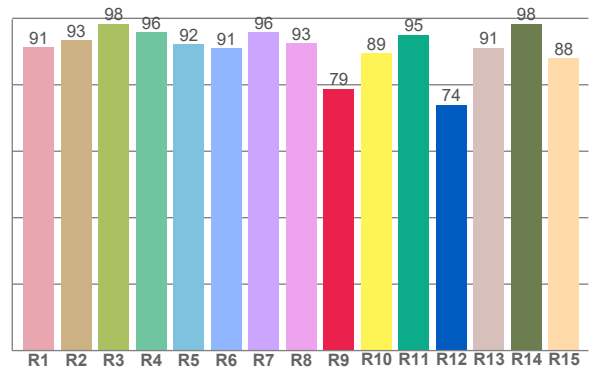
COLOR DETAILS



TM30: 91,5



CRI: 93,8 (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
91,3	93,4	98,4	95,9	92,3	91,0	95,7	92,5	78,8	89,5	95,1	74,0	91,2	98,4	88,0

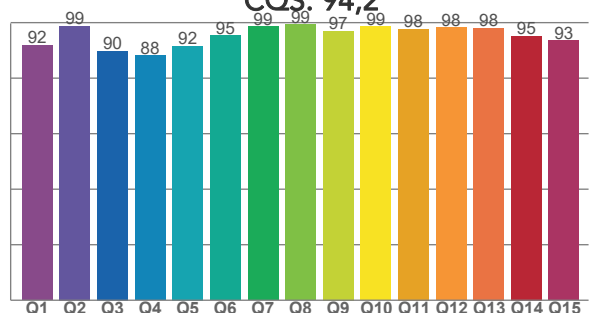
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	93,8	95,0	92,5	91,2	95,5	93,2	90,4	87,5	87,5	87,2	93,1	93,9	93,9	85,7	92,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,9	98,8	89,7	88,1	91,6	95,4	98,6	99,3	97,0	98,6	97,8	98,3	98,0	95,2	93,5

CQS: 94,2



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
4347 K	93,8	78,8	91,5	101,6	94,2	98	0,362	0,348	-0,0085

TM30 DETAILS

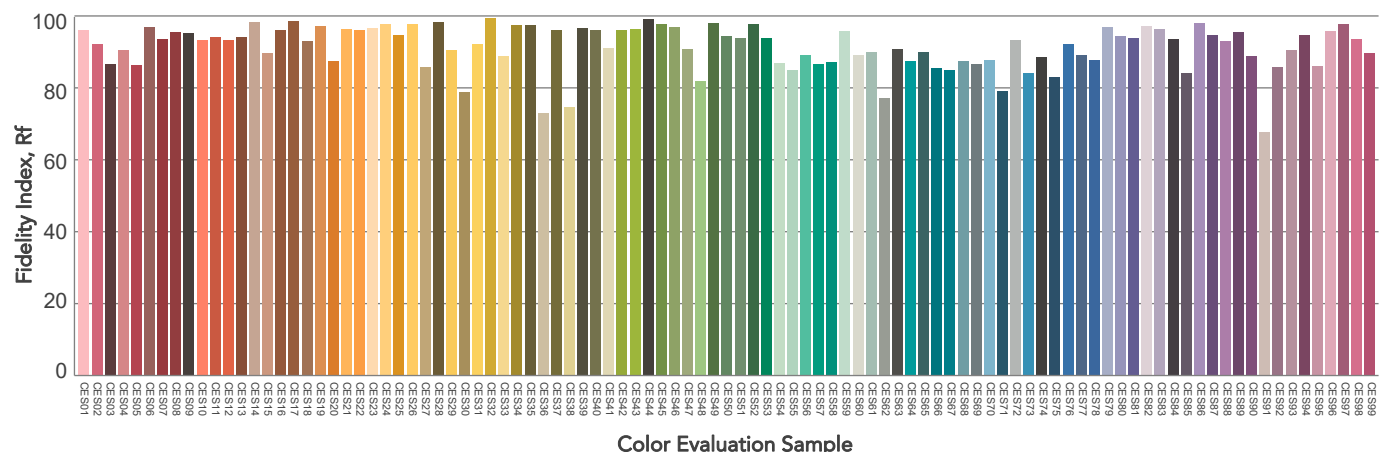
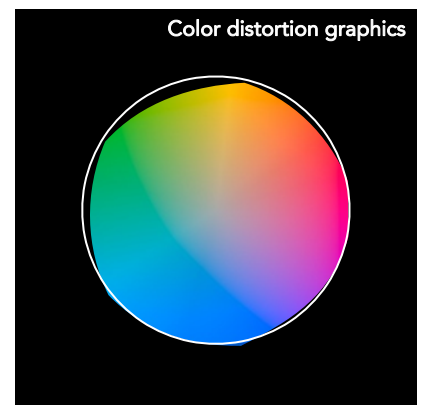
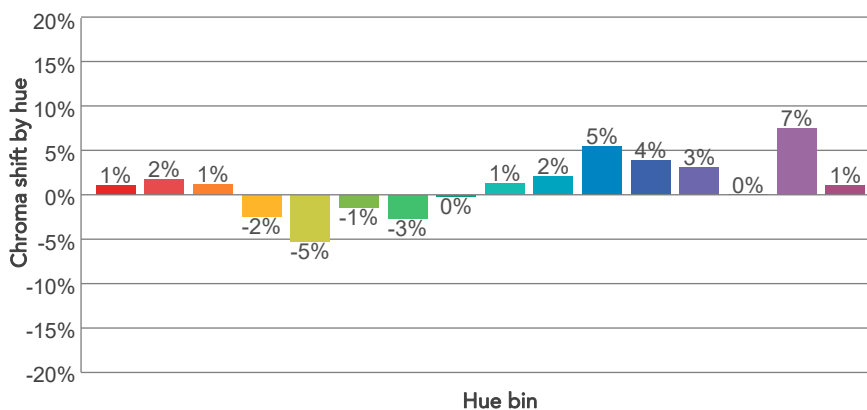
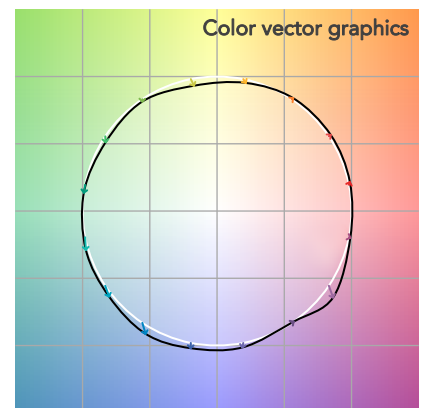
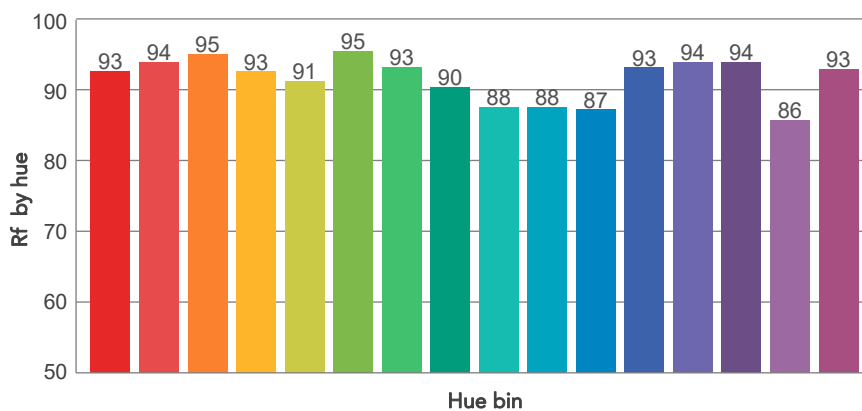
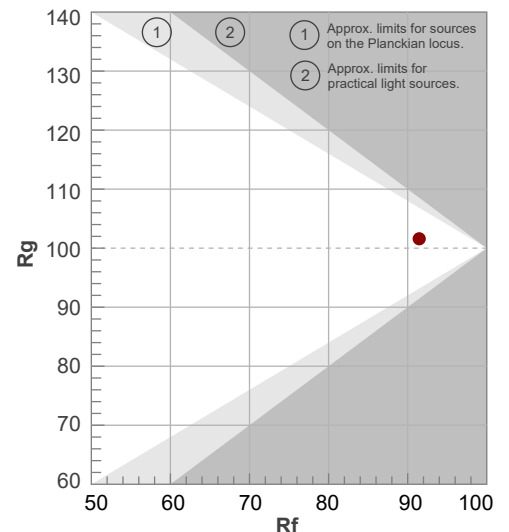
Rf 91,5

Fidelity index Rf

Rg 101,6

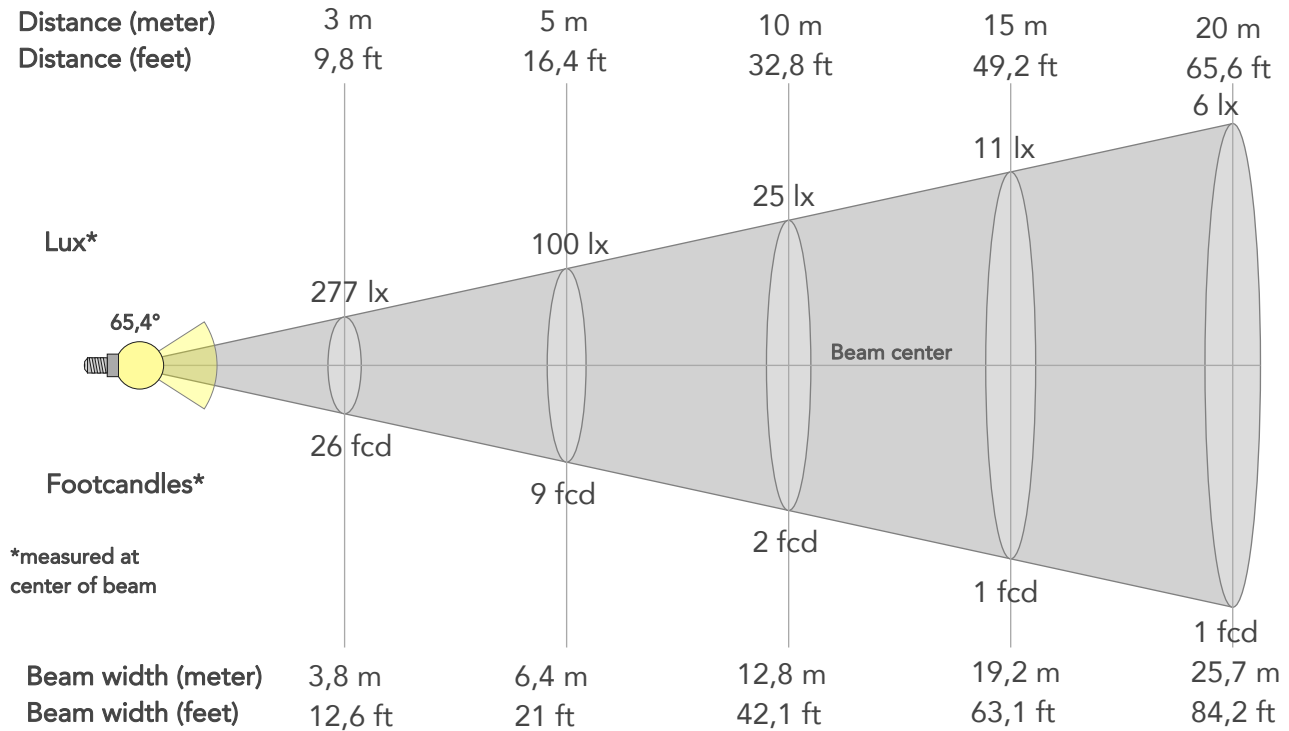
Gammut index

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



BEAM DETAILS

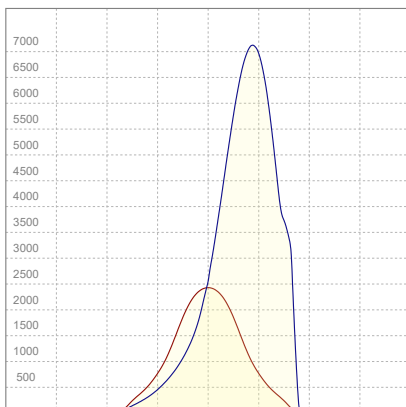
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,4°	123,6°	148,8°	78,9%	51,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2492lx	623lx	277lx	156lx	100lx	44lx	25lx	11lx	6lx	4lx	3lx	2lx	1lx
Footcand.	231fcd	58fcd	26fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,7m	32,1m	38,5m	51,3m	64,2m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21ft	31,6ft	42,1ft	63,1ft	84,2ft	105,2ft	126,3ft	168,4ft	210,5ft

LINEAR DISTRIBUTION DIAGRAM

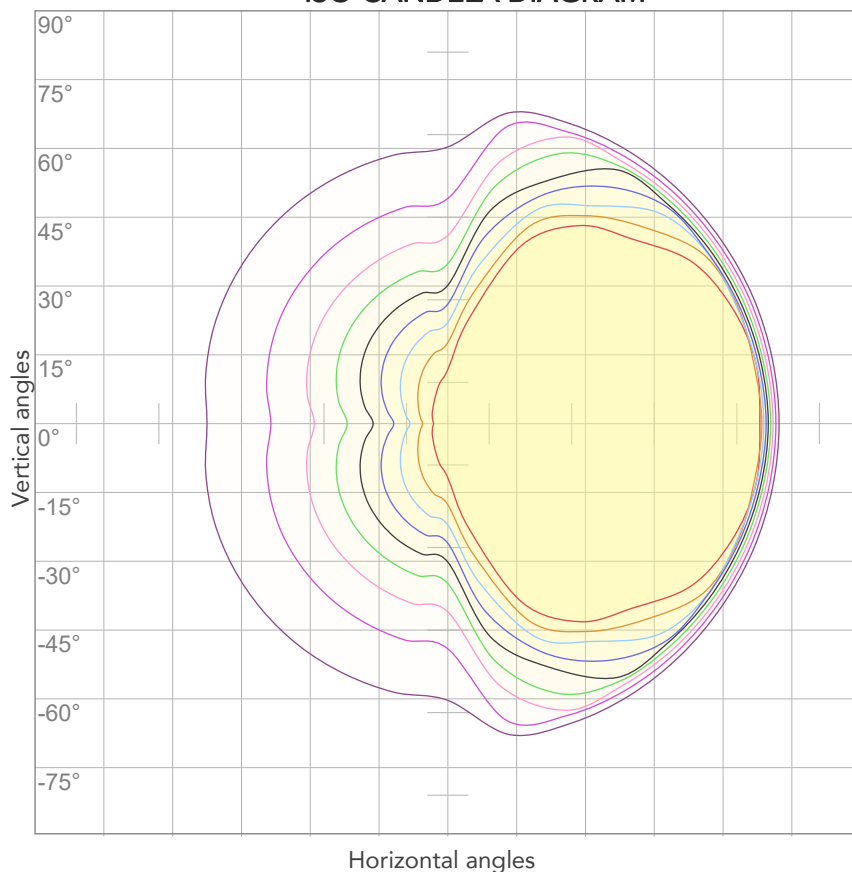


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	0,816A	181,9W	0,99	49lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



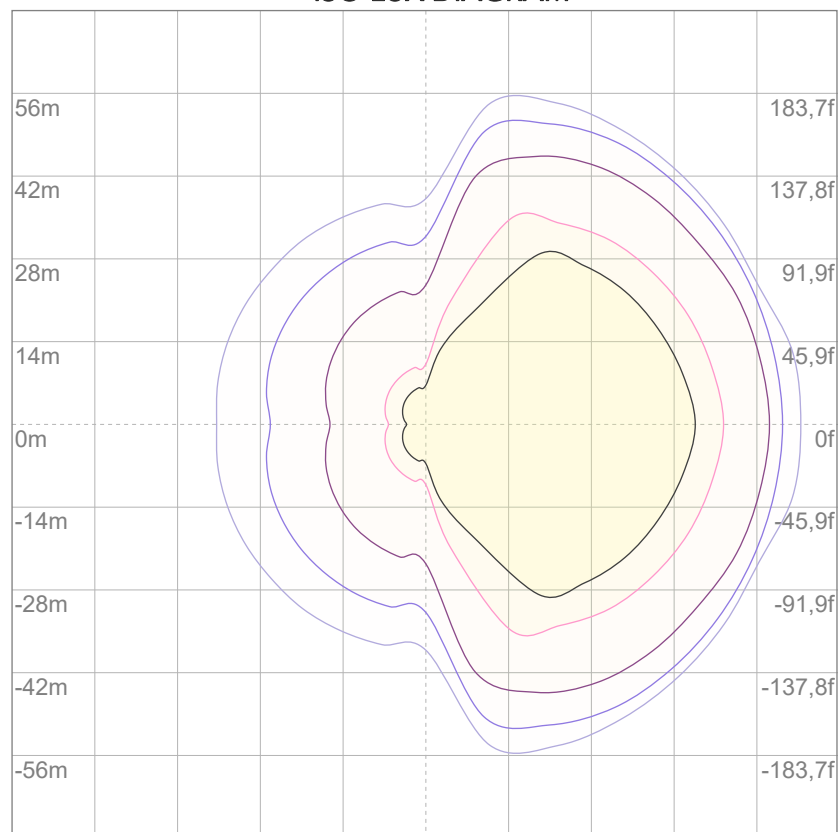
10%	249 cd
20%	498 cd
30%	747 cd
40%	997 cd
50%	1246 cd
60%	1495 cd
70%	1744 cd
80%	1993 cd

Conditions:

Number of c-planes: 4

Candela at center: 2492 cd

ISO LUX DIAGRAM



3%	0,747 lx
5%	1,25 lx
10%	2,49 lx
30%	7,47 lx
50%	12,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 24,9 lx

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



Total lumen output:

7233 lm

Peak candela output:

5781 cd

Light quality:

CRI: 94,9

Color temperature:

2732 K

PRODUCT NAME:

ECLEXPFL150IPVW

MEASURAMENT CONDITIONS:

Beam angle:

Warm White

Target:

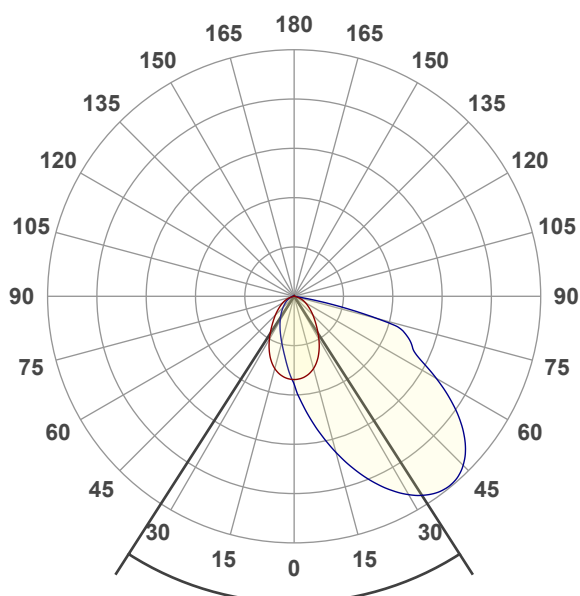
Full On

Operator:

Giuseppe della Peruta

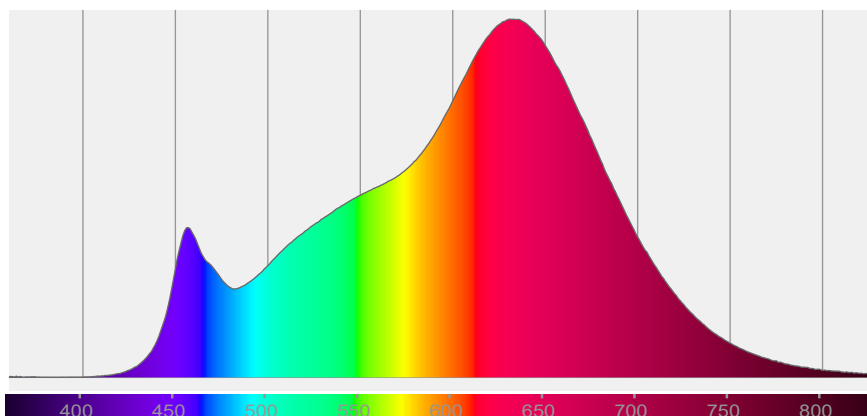
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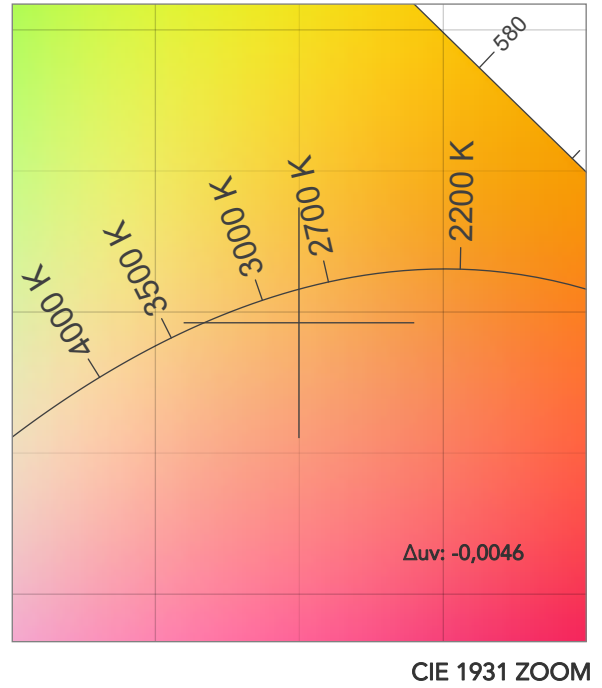
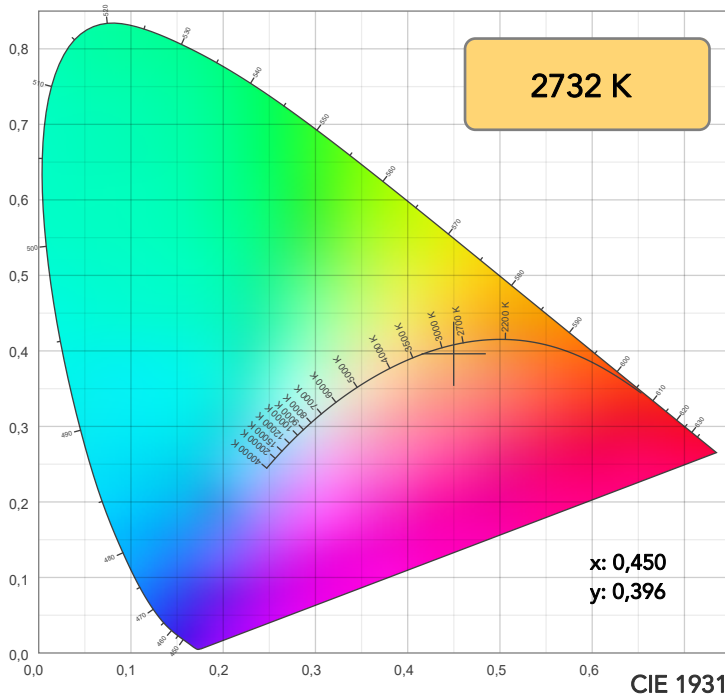


	Blue curve V	Red curve H
Beam angle 50%:	62,3°	68,5°
Field angle 10%:	112,5°	134,9°
Cut off angle 2.5%:	144,7°	153°

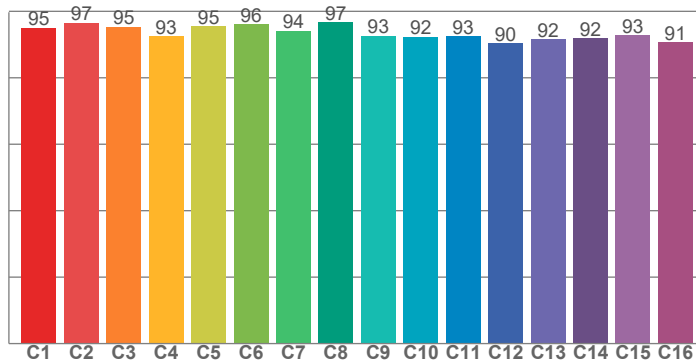
Spectra



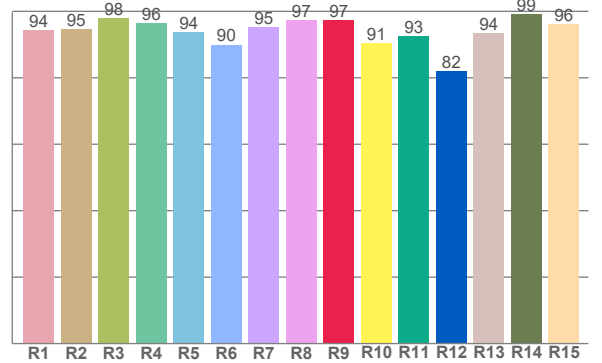
COLOR DETAILS



TM30: 93,6



CRI: 94,9 (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
94,3	94,6	97,9	96,4	93,8	89,9	95,2	97,3	97,4	90,5	92,5	82,0	93,5	99,1	96,2

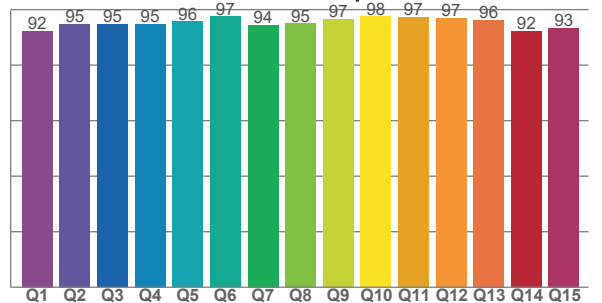
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,0	96,5	95,3	92,6	95,5	96,1	94,2	96,7	92,6	92,3	92,5	90,4	91,6	91,9	92,8	90,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,3	94,9	94,7	94,7	95,7	97,5	94,5	94,9	96,6	97,6	97,3	97,0	96,2	92,4	93,3

CQS: 94,8



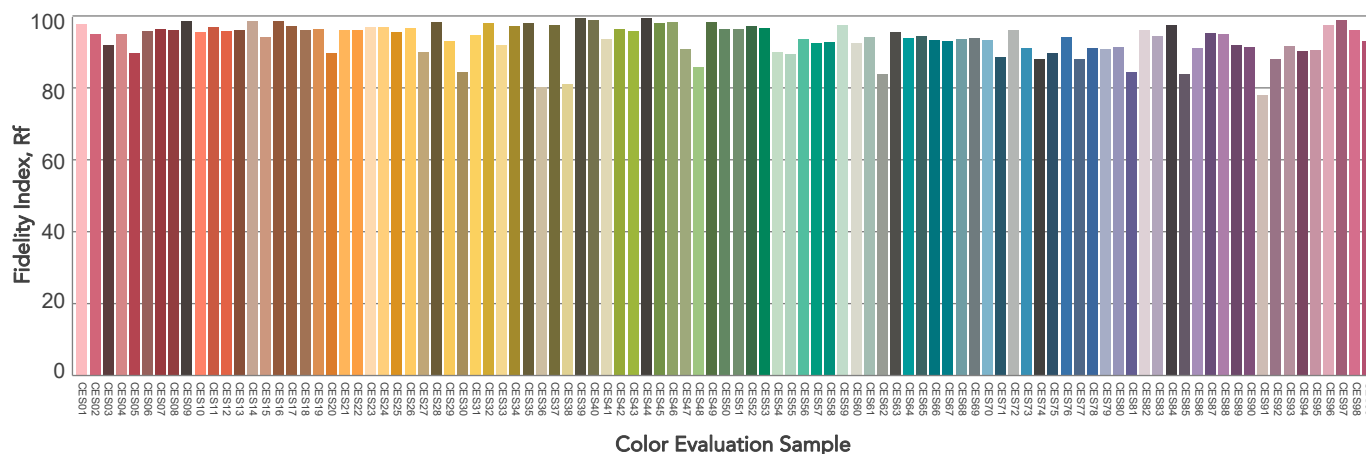
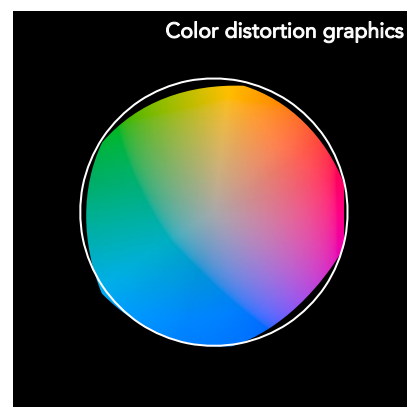
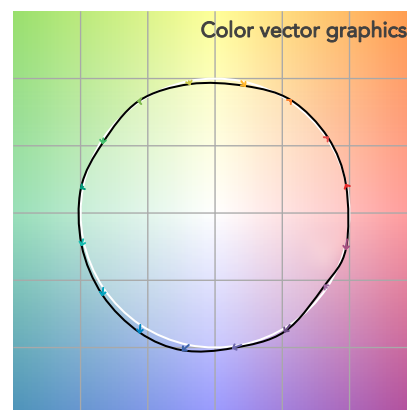
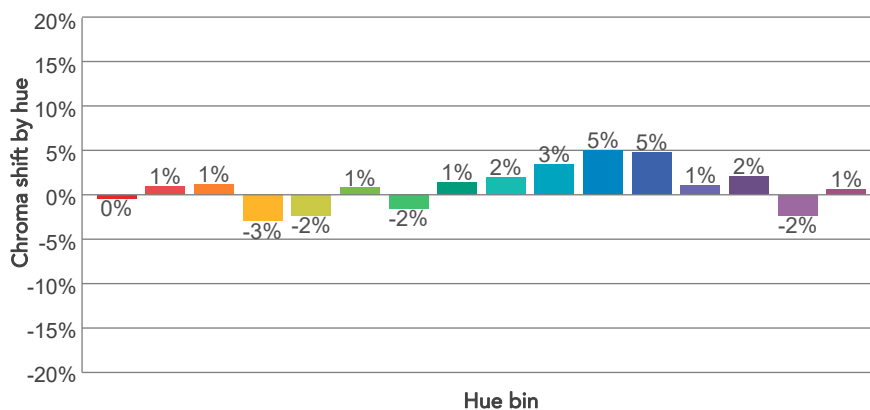
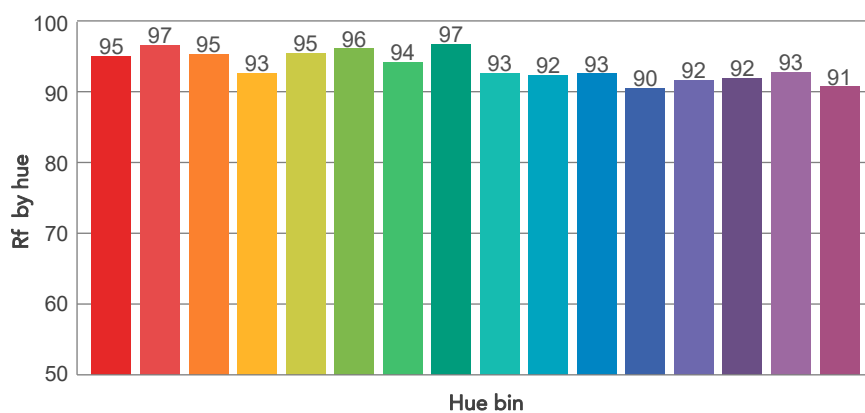
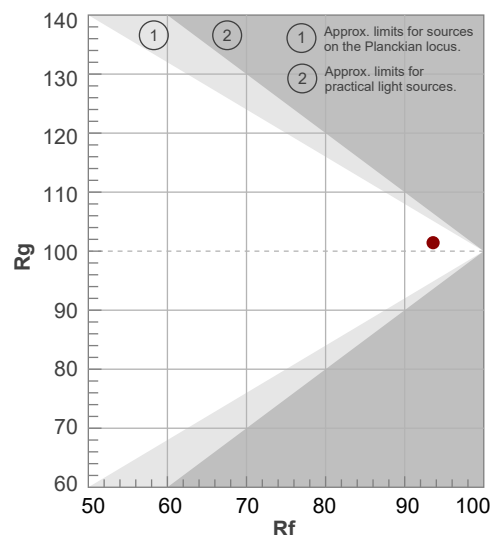
COLOR PARAMETERS

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
2732 K	94,9	97,4	93,6	101,4	94,8	97	0,450	0,396	-0,0046

Fidelity index R_f

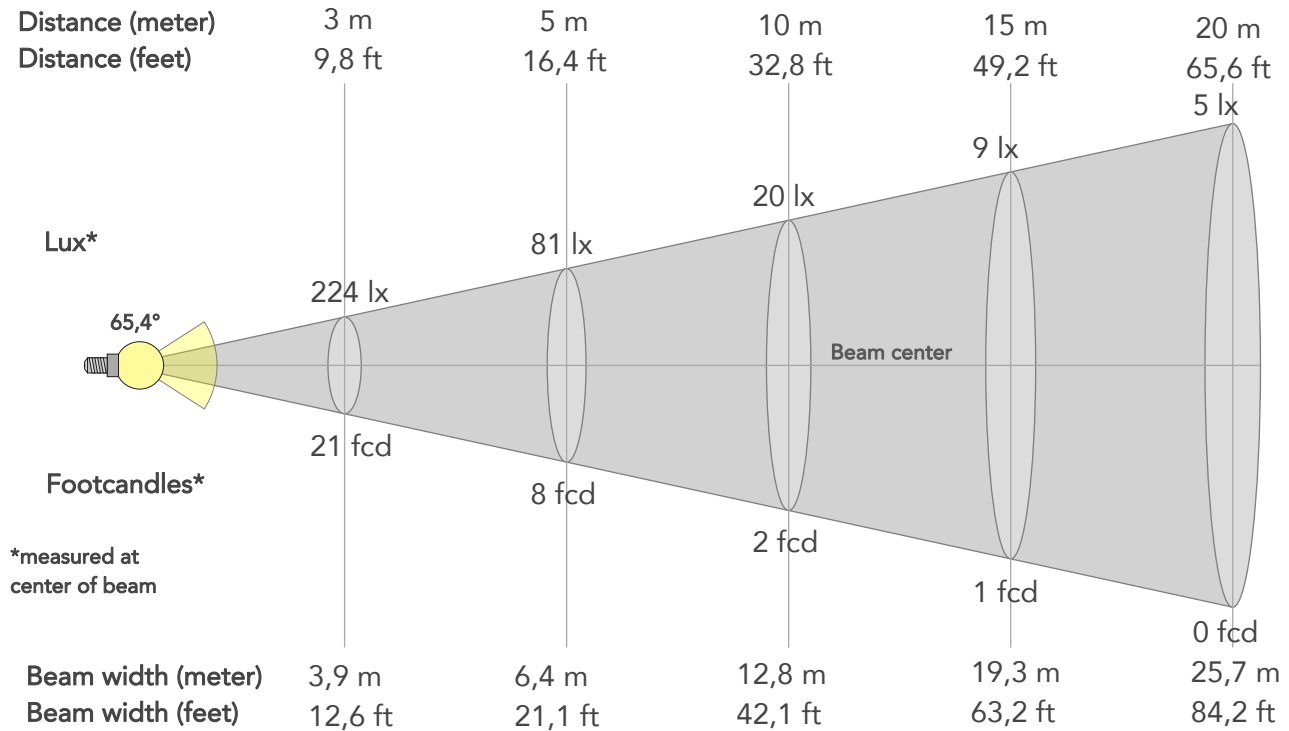
Gammut index

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	0%	2%
2	97	1%	0%
3	95	1%	0%
4	93	-3%	-3%
5	95	-2%	0%
6	96	1%	1%
7	94	-2%	3%
8	97	1%	1%
9	93	2%	4%
10	92	3%	4%
11	93	5%	3%
12	90	5%	-4%
13	92	1%	-7%
14	92	2%	-6%
15	93	-2%	0%
16	91	1%	-7%



BEAM DETAILS

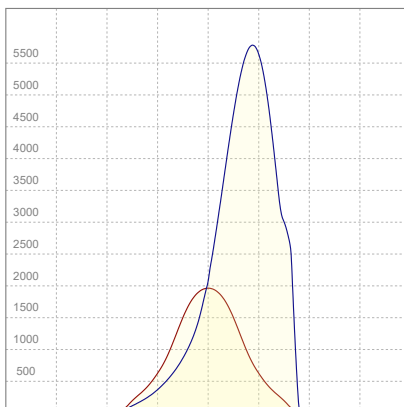
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,4°	123,7°	148,9°	79,0%	51,9%



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	2019lx	505lx	224lx	126lx	81lx	36lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	188fcd	47fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,9m	5,1m	6,4m	9,6m	12,8m	19,3m	25,7m	32,1m	38,5m	51,4m	64,2m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21,1ft	31,6ft	42,1ft	63,2ft	84,2ft	105,3ft	126,3ft	168,5ft	210,6ft

LINEAR DISTRIBUTION DIAGRAM

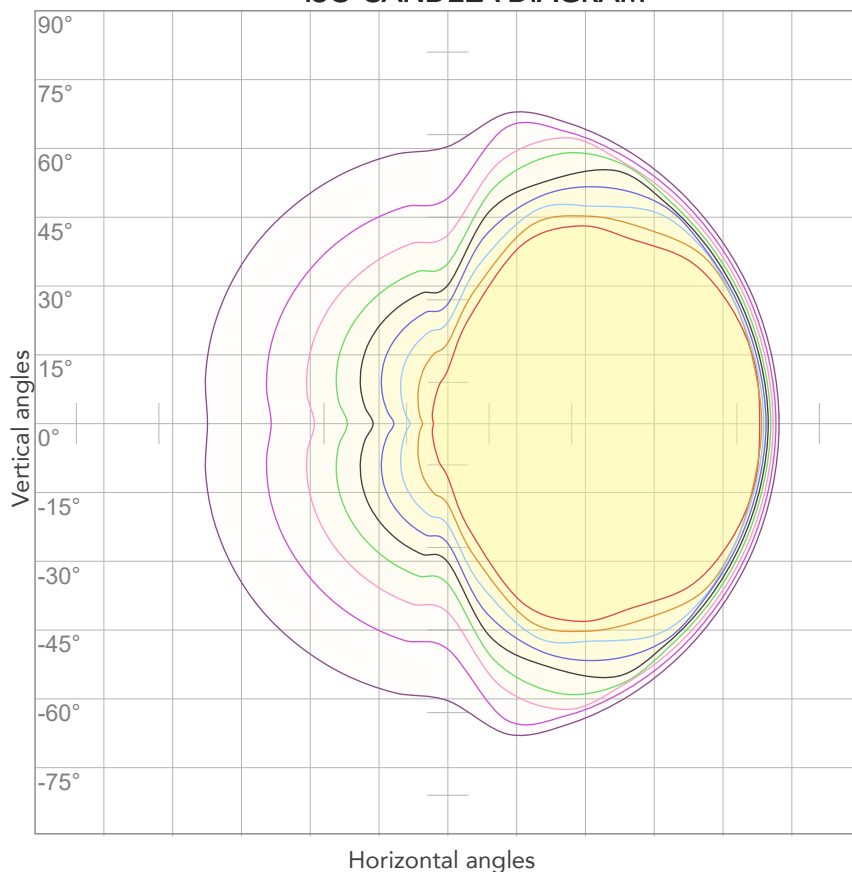


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,795A	178,1W	0,99	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



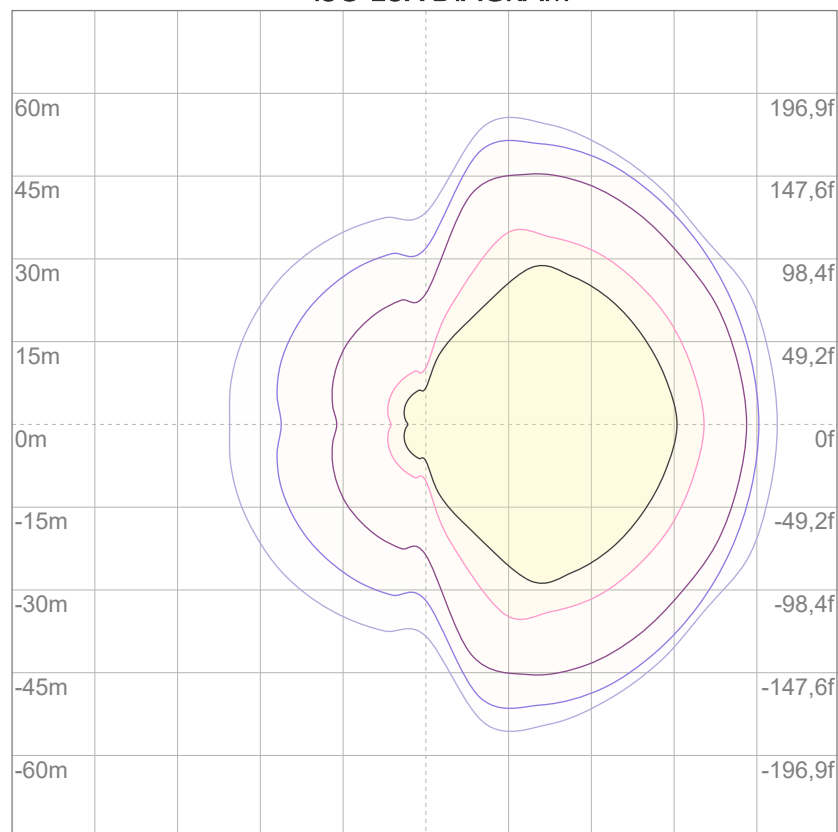
10%	202 cd
20%	404 cd
30%	606 cd
40%	808 cd
50%	1009 cd
60%	1211 cd
70%	1413 cd
80%	1615 cd

Conditions:

Number of c-planes: 4

Candela at center: 2019 cd

ISO LUX DIAGRAM



3%	0,606 lx
5%	1,01 lx
10%	2,02 lx
30%	6,06 lx
50%	10,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,2 lx

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



Total lumen output:

9777 lm

Peak candela output:

7802 cd

Light quality:

CRI: 93,8

Color temperature:

6738 K

PRODUCT NAME:

ECLEXPFL150IPWW

MEASURAMENT CONDITIONS:

Beam angle:

Cold White

Target:

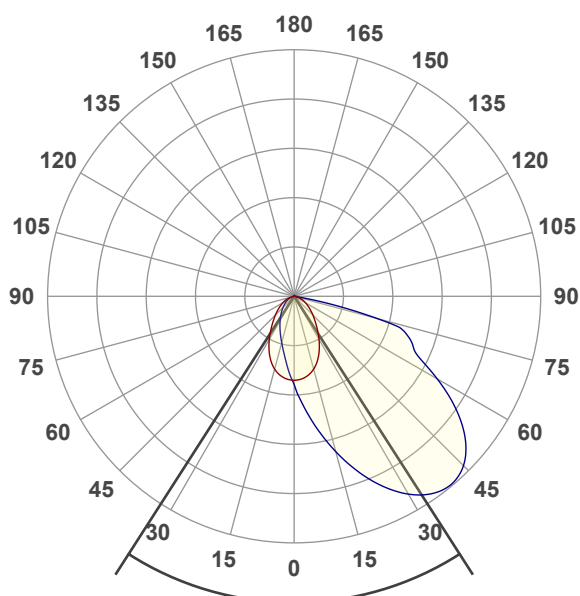
Full On

Operator:

Giuseppe della Peruta

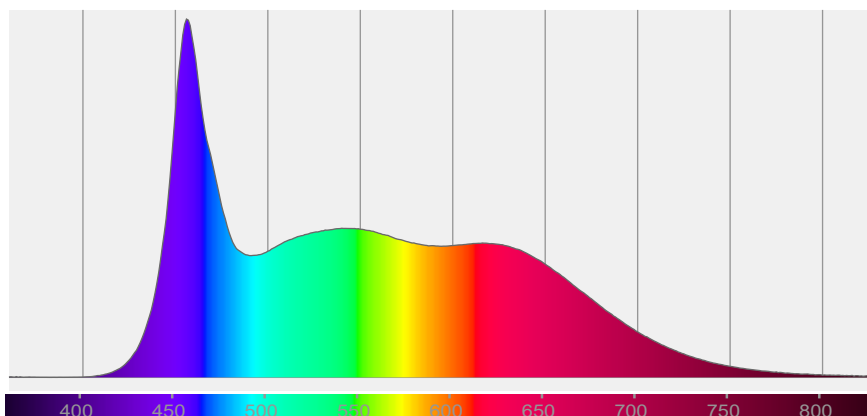
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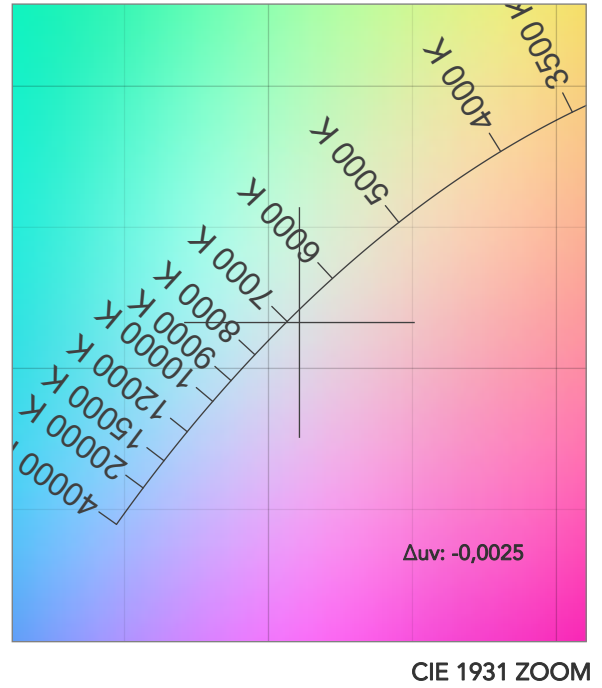
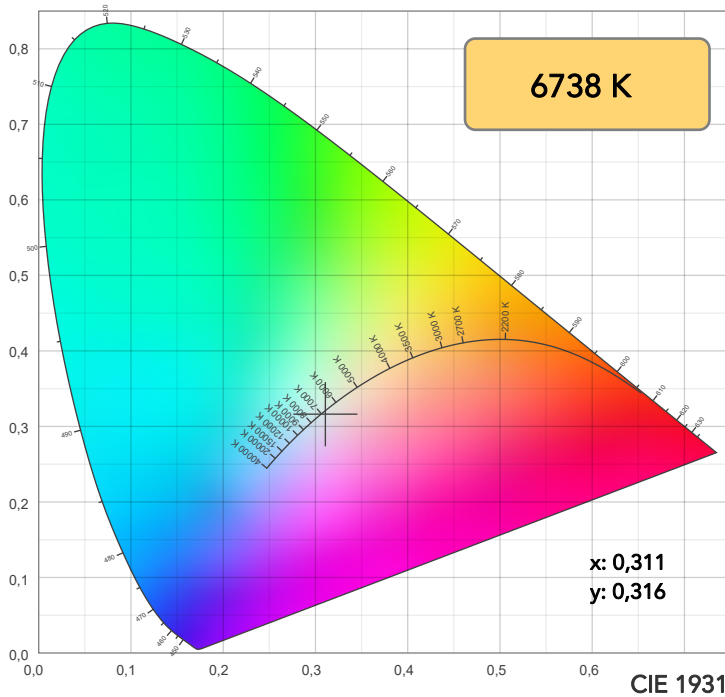


	Blue curve V	Red curve H
Beam angle 50%:	62,6°	68,2°
Field angle 10%:	112,6°	134,4°
Cut off angle 2.5%:	144,5°	152,5°

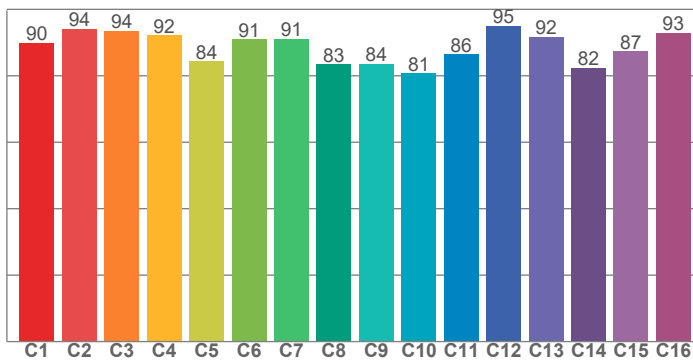
Spectra



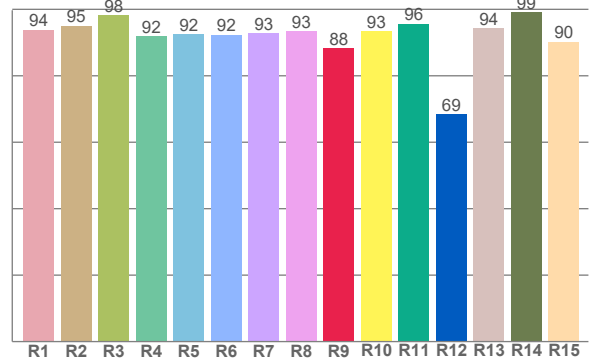
COLOR DETAILS



TM30: 88,6



CRI: 93,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,9	95,1	98,2	92,0	92,5	92,4	92,7	93,4	88,3	93,4	95,7	68,6	94,3	99,2	90,3

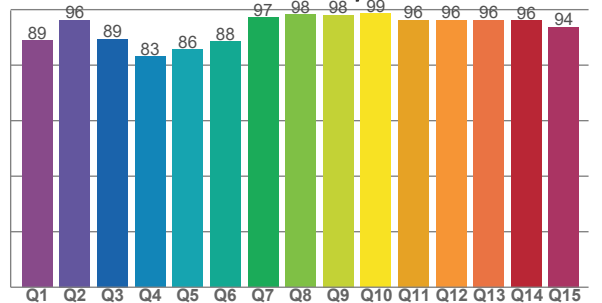
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,9	94,1	93,6	92,2	84,4	91,0	91,2	83,4	83,6	80,7	86,4	95,1	91,8	82,4	87,5	93,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,8	96,2	89,4	83,1	85,6	88,4	97,3	98,3	98,1	98,7	96,2	96,3	96,3	96,2	93,8

CQS: 91,9



COLOR PARAMETERS

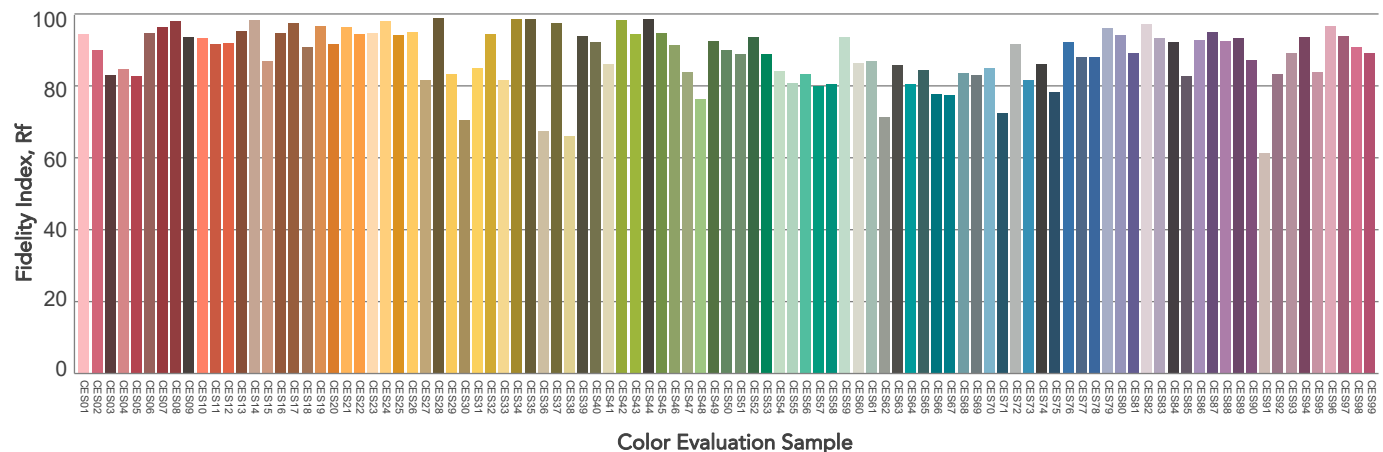
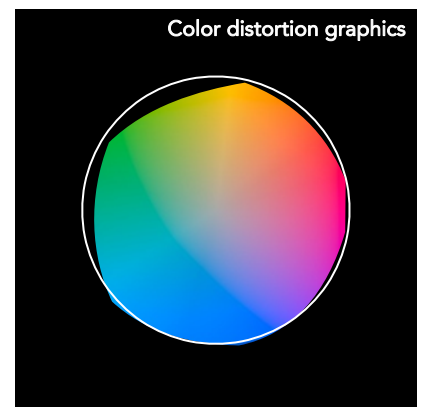
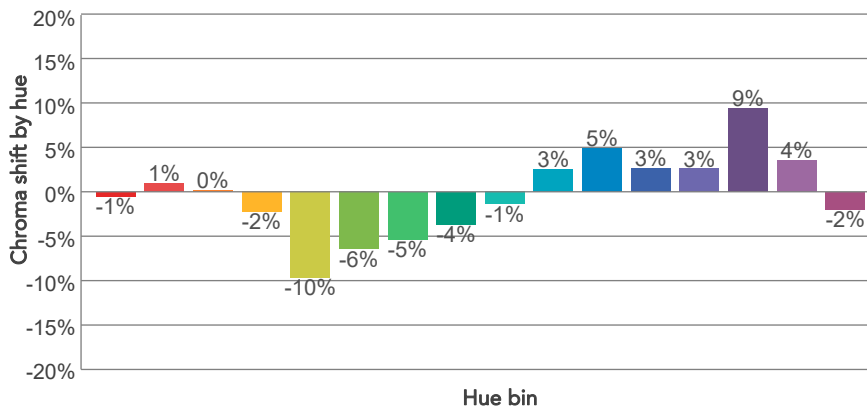
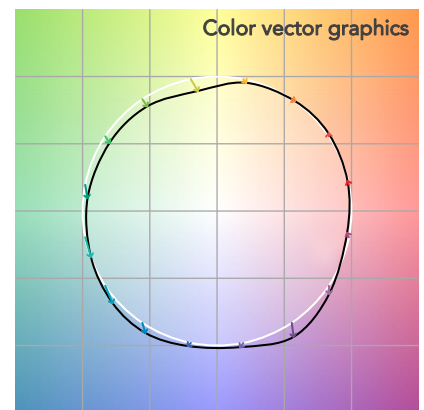
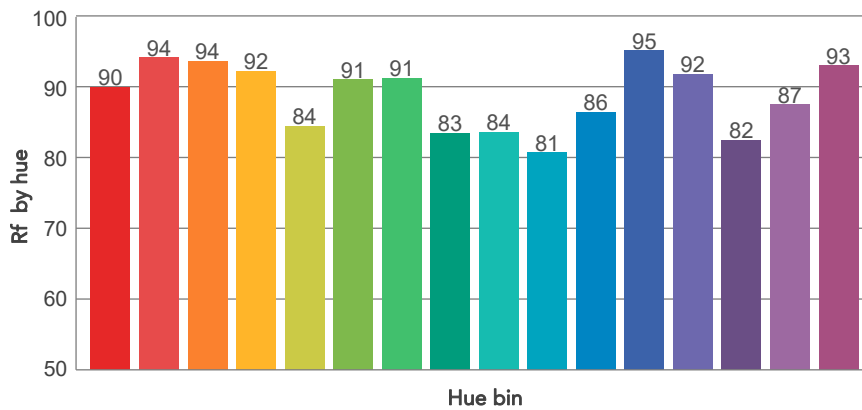
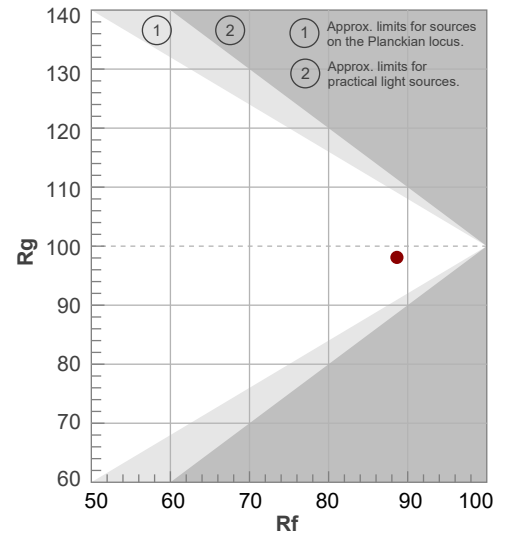
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6738 K	93,8	88,3	88,6	98,1	91,9	94	0,311	0,316	-0,0025

TM30 DETAILS

Rf 88,6
Fidelity index Rf

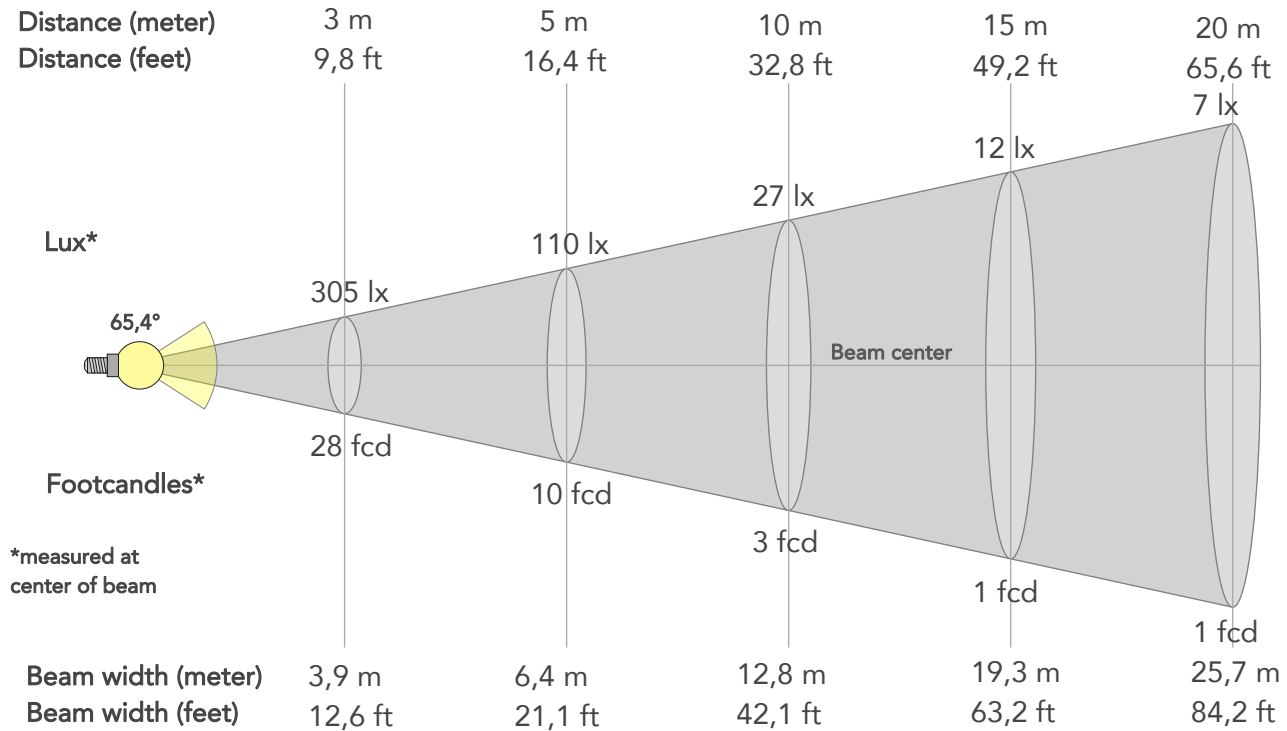
Rg 98,1
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-1%	3%
2	94	1%	2%
3	94	0%	-3%
4	92	-2%	-3%
5	84	-10%	-3%
6	91	-6%	0%
7	91	-5%	2%
8	83	-4%	9%
9	84	-1%	15%
10	81	3%	14%
11	86	5%	6%
12	95	3%	-2%
13	92	3%	-3%
14	82	9%	-5%
15	87	4%	-5%
16	93	-2%	3%



BEAM DETAILS

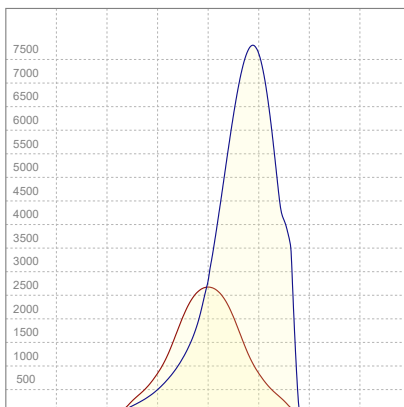
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,4°	123,5°	148,5°	79,0%	51,8%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2741lx	685lx	305lx	171lx	110lx	49lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	255fcd	64fcd	28fcd	16fcd	10fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,9m	5,1m	6,4m	9,6m	12,8m	19,3m	25,7m	32,1m	38,5m	51,4m	64,2m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21,1ft	31,6ft	42,1ft	63,2ft	84,2ft	105,3ft	126,4ft	168,5ft	210,6ft

LINEAR DISTRIBUTION DIAGRAM

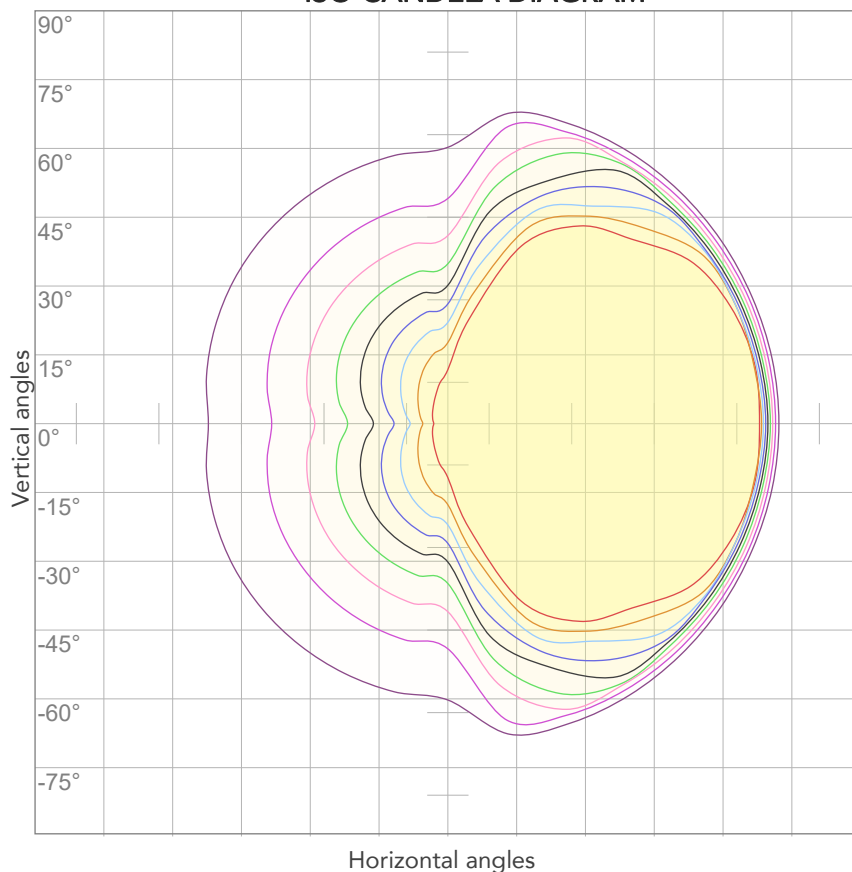


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,800A	178,6W	0,99	55lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



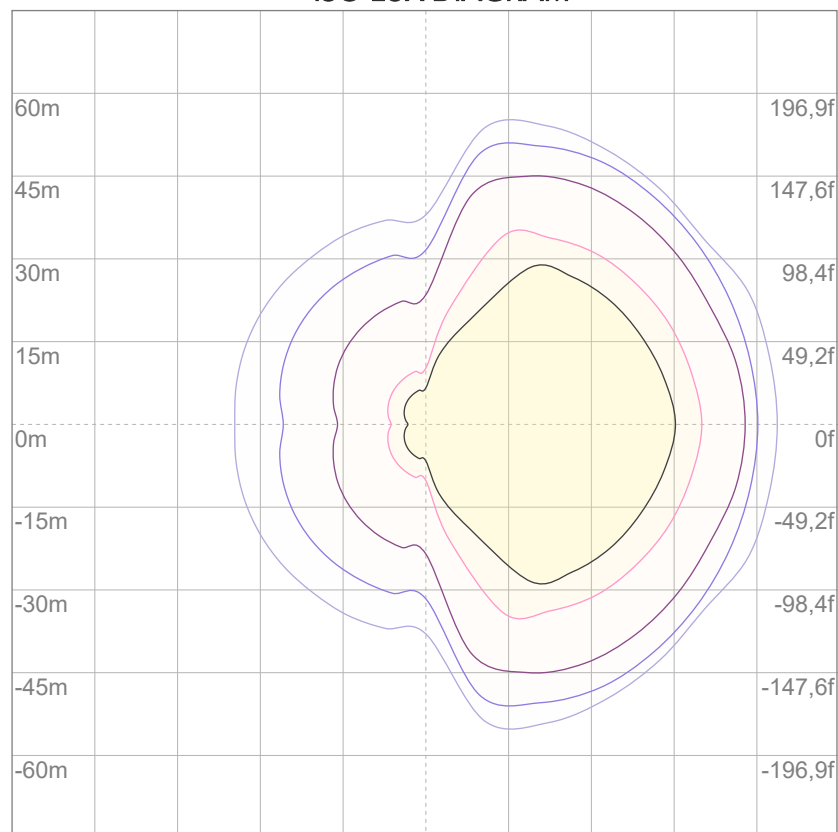
10%	274 cd
20%	548 cd
30%	822 cd
40%	1097 cd
50%	1371 cd
60%	1645 cd
70%	1919 cd
80%	2193 cd

Conditions:

Number of c-planes: 4

Candela at center: 2741 cd

ISO LUX DIAGRAM



3%	0,822 lx
5%	1,37 lx
10%	2,74 lx
30%	8,22 lx
50%	13,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 27,4 lx

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



Total lumen output:

7197 lm

Peak candela output:

5759 cd

Light quality:

CRI: 94,4

Color temperature:

2787 K

PRODUCT NAME:

ECLEXPFL150IPVW

MEASURAMENT CONDITIONS:

Beam angle:

2800K

Target:

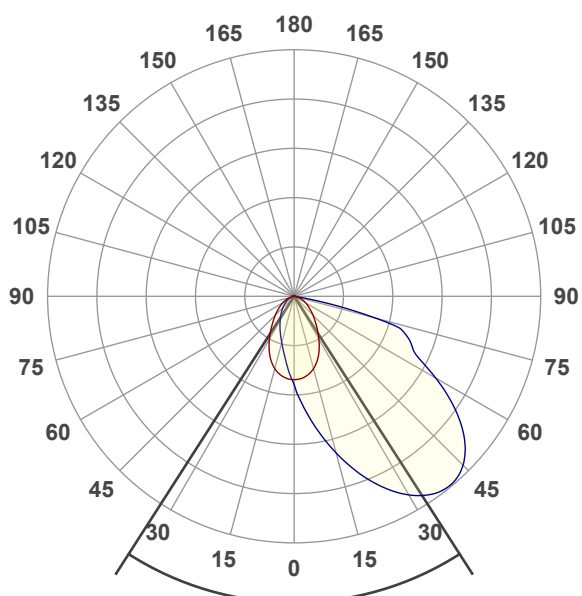
Full On

Operator:

Giuseppe della Peruta

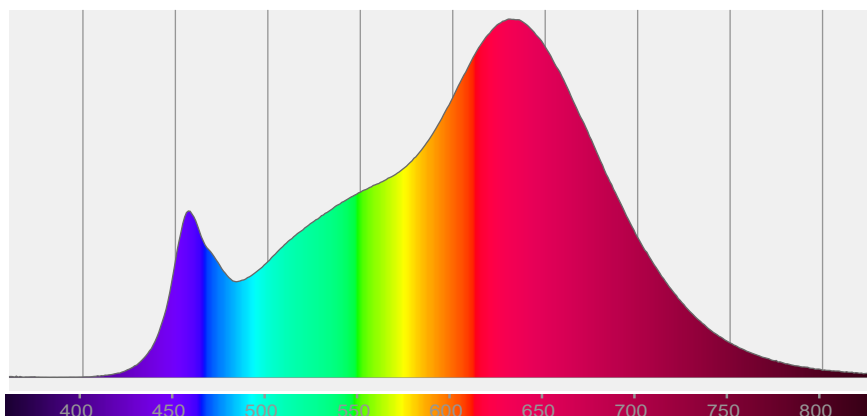
Date and time:

07/10/2025 17:48:00

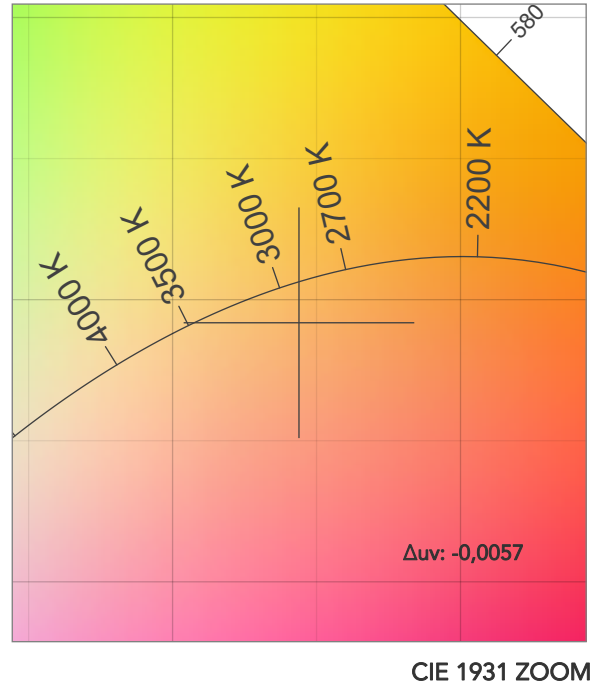
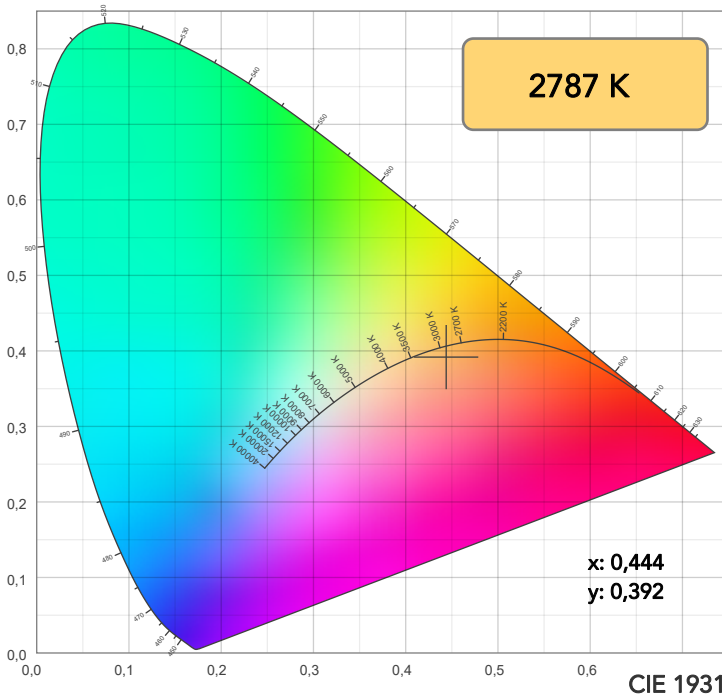


	Blue curve V	Red curve H
Beam angle 50%:	62,3°	68,5°
Field angle 10%:	112,5°	134,8°
Cut off angle 2.5%:	144,7°	152,9°

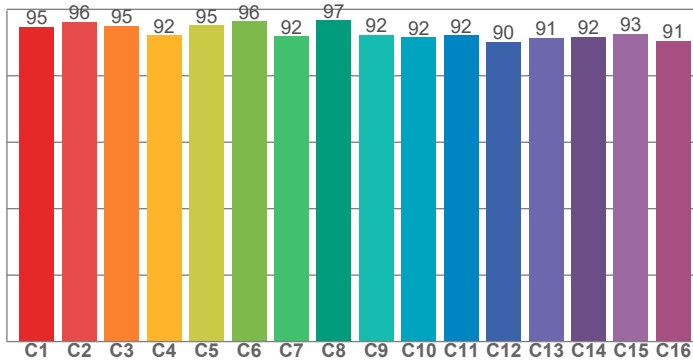
Spectra



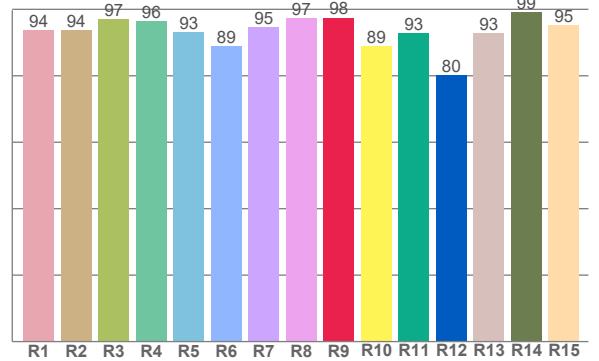
COLOR DETAILS



TM30: 93,3



CRI: 94,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,8	93,8	96,9	96,5	93,1	88,8	94,6	97,3	97,5	88,8	92,7	80,1	92,8	99,1	95,3

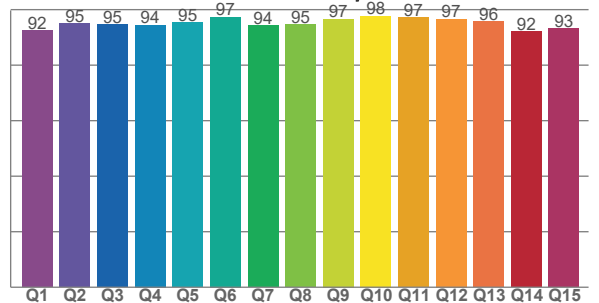
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,7	96,3	95,1	92,3	95,2	96,3	91,9	96,7	92,4	91,6	92,2	90,2	91,4	91,8	92,6	90,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,4	95,0	94,6	94,4	95,4	97,4	94,3	94,6	96,6	97,7	97,2	96,6	95,8	92,1	93,3

CQS: 94,7



COLOR PARAMETERS

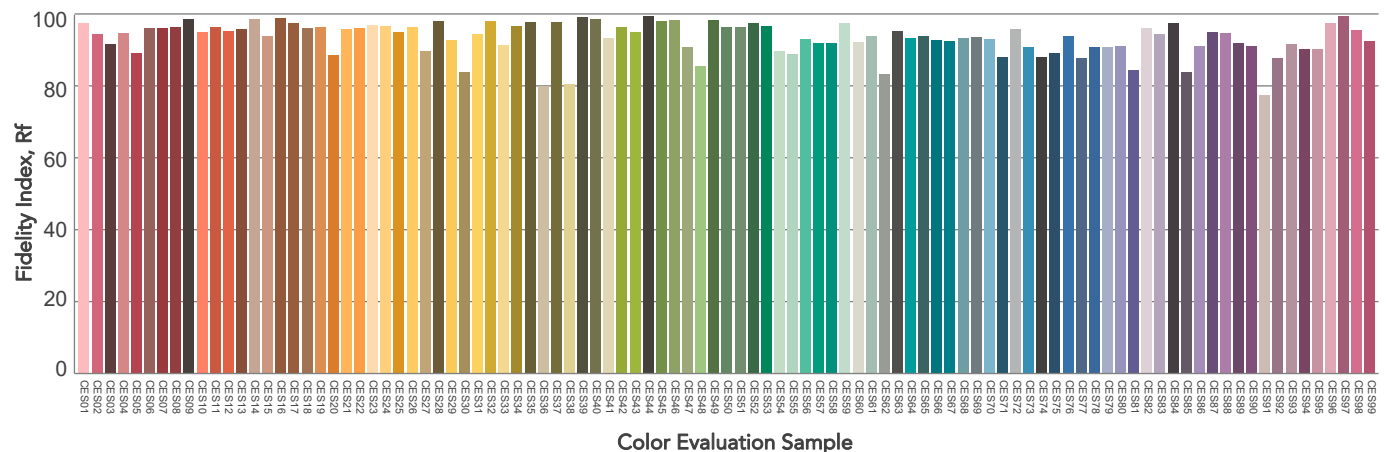
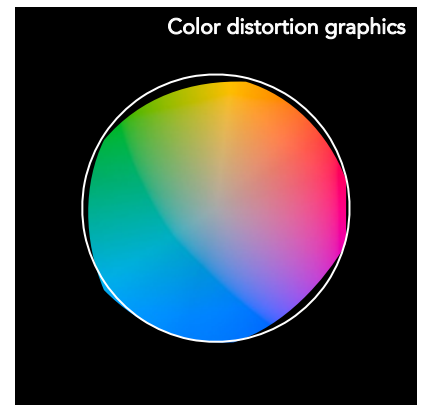
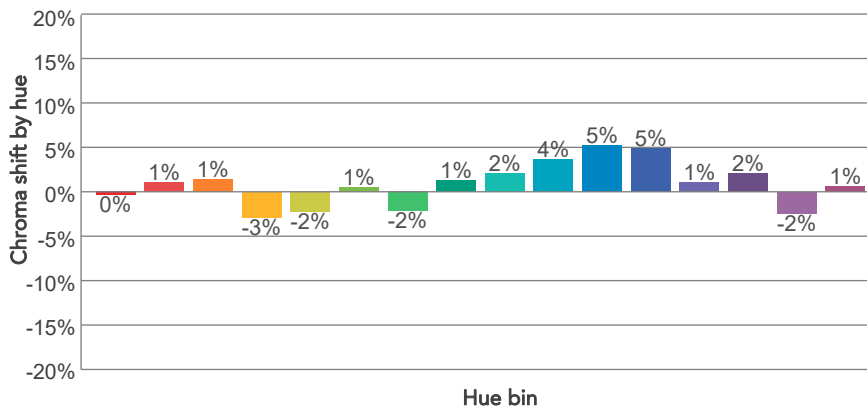
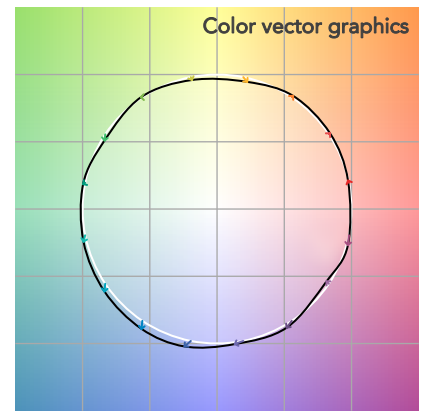
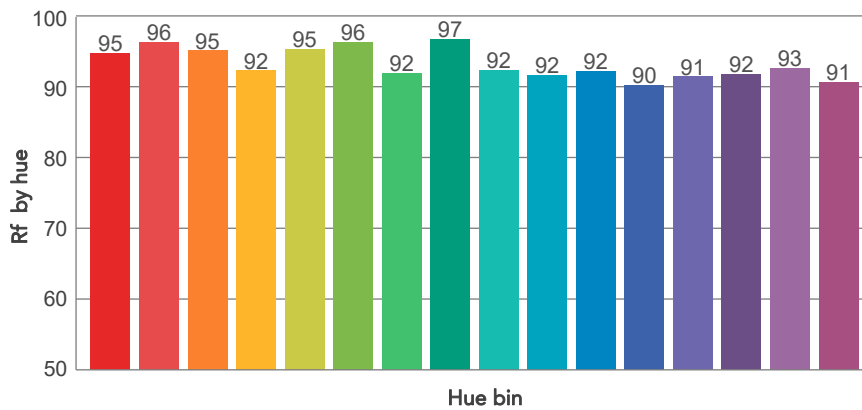
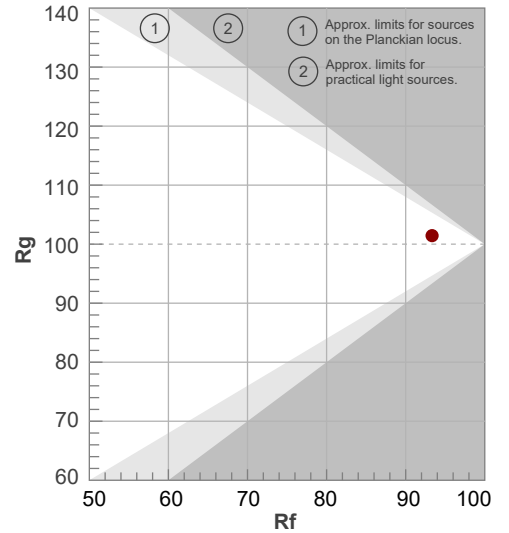
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2787 K	94,4	97,5	93,3	101,4	94,7	97	0,444	0,392	-0,0057

TM30 DETAILS

Rf 93,3
Fidelity index Rf

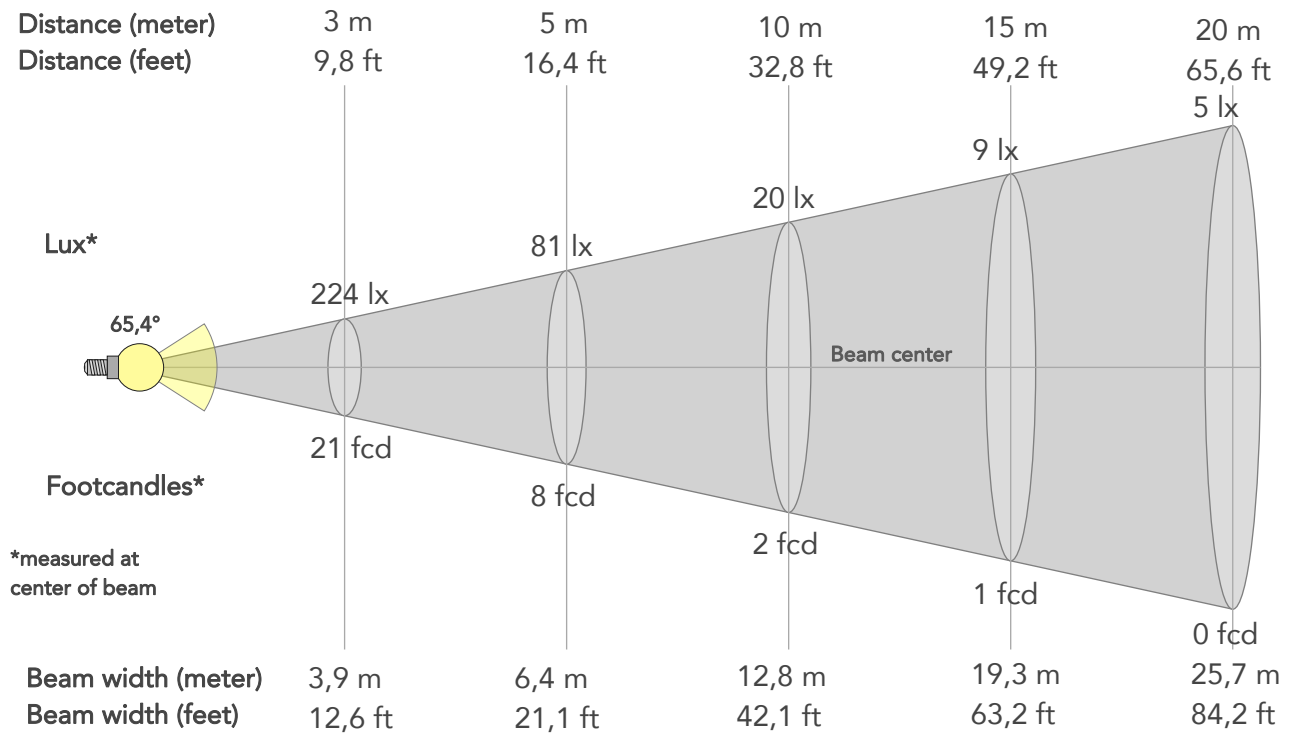
Rg 101,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	2%
2	96	1%	0%
3	95	1%	0%
4	92	-3%	-4%
5	95	-2%	0%
6	96	1%	1%
7	92	-2%	4%
8	97	1%	1%
9	92	2%	4%
10	92	4%	4%
11	92	5%	3%
12	90	5%	-4%
13	91	1%	-7%
14	92	2%	-6%
15	93	-2%	0%
16	91	1%	-7%



BEAM DETAILS

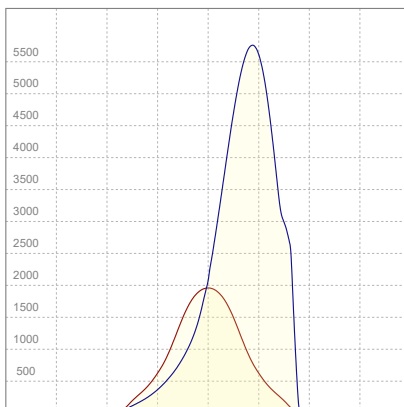
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,4°	123,6°	148,8°	79,1%	52,0%



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	2018lx	505lx	224lx	126lx	81lx	36lx	20lx	9lx	5lx	3lx	2lx	1lx	1lx
Footcand.	188fcd	47fcd	21fcd	12fcd	8fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,9m	5,1m	6,4m	9,6m	12,8m	19,3m	25,7m	32,1m	38,5m	51,4m	64,2m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21,1ft	31,6ft	42,1ft	63,2ft	84,2ft	105,3ft	126,4ft	168,5ft	210,6ft

LINEAR DISTRIBUTION DIAGRAM

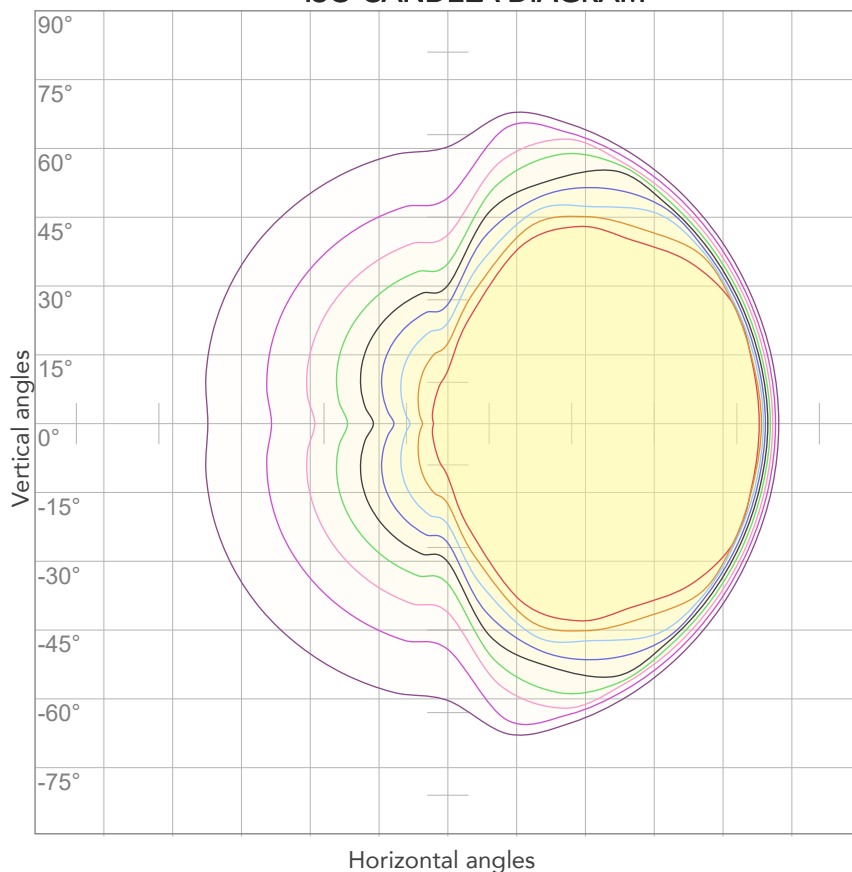


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,794A	177,7W	0,99	41lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



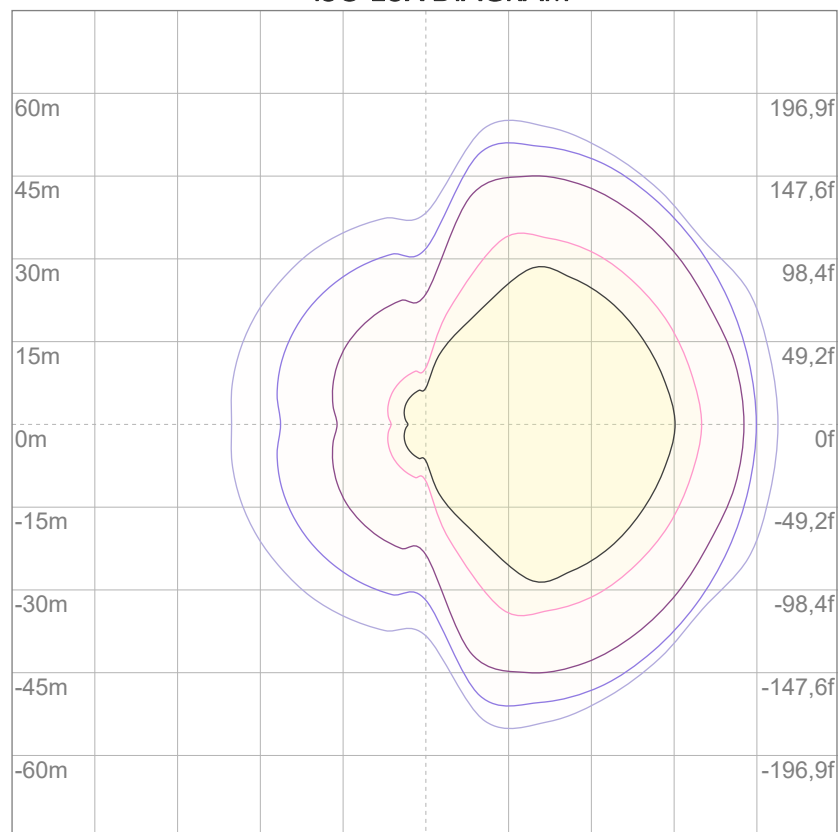
10%	202 cd
20%	404 cd
30%	606 cd
40%	807 cd
50%	1009 cd
60%	1211 cd
70%	1413 cd
80%	1615 cd

Conditions:

Number of c-planes: 4

Candela at center: 2018 cd

ISO LUX DIAGRAM



3%	0,606 lx
5%	1,01 lx
10%	2,02 lx
30%	6,06 lx
50%	10,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 20,2 lx

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



Total lumen output:

8095 lm

Peak candela output:

6383 cd

Light quality:

CRI: 94,2

Color temperature:

3235 K

PRODUCT NAME:

ECLEXPFL150IPVW

MEASURAMENT CONDITIONS:

Beam angle:

3200K

Target:

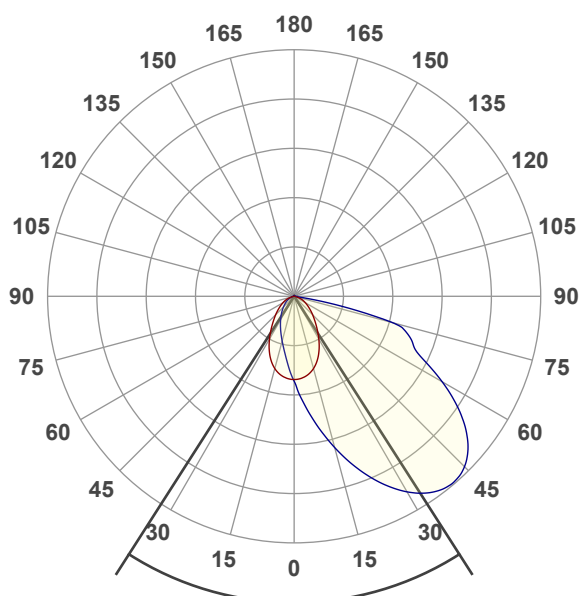
Full On

Operator:

Giuseppe della Peruta

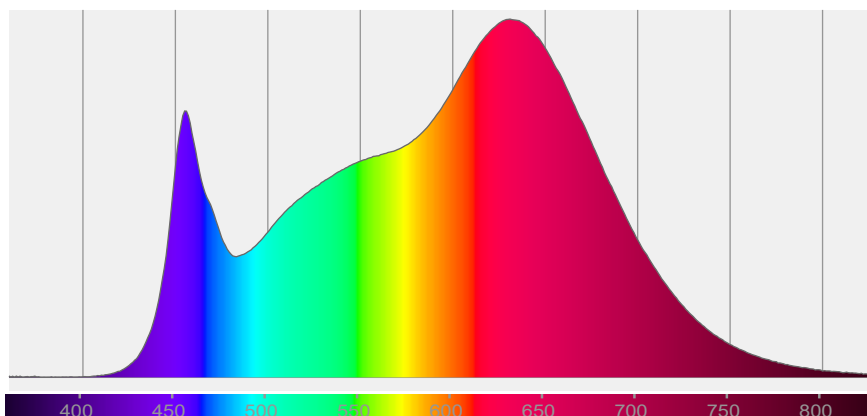
Date and time:

08/10/2025 09:15:44

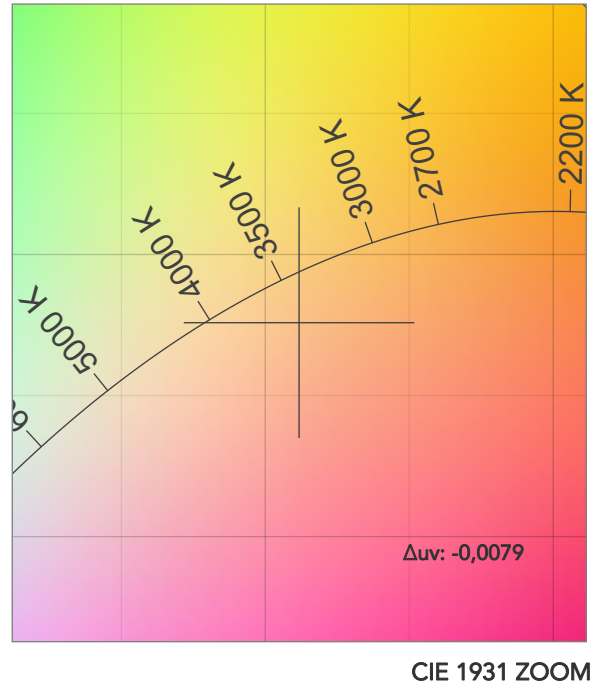
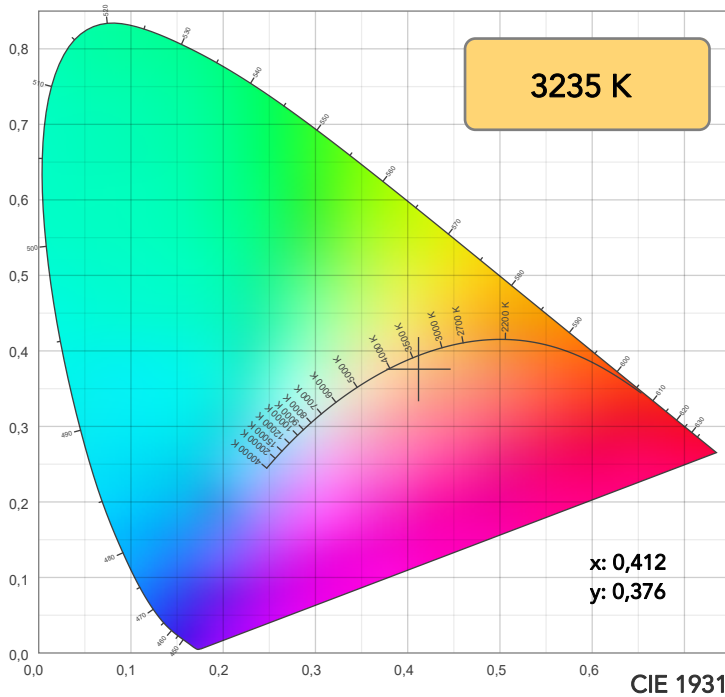


	Blue curve V	Red curve H
Beam angle 50%:	62,3°	68,3°
Field angle 10%:	112,6°	134,4°
Cut off angle 2.5%:	145°	153,2°

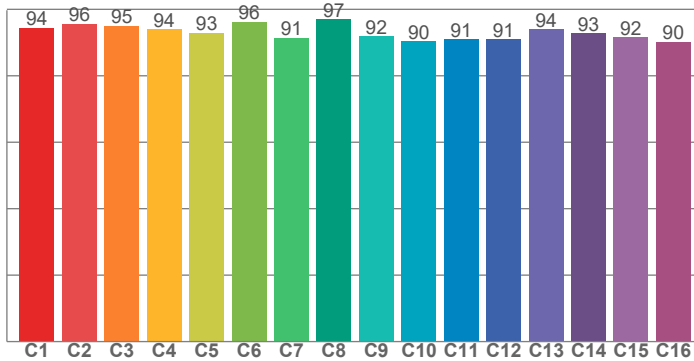
Spectra



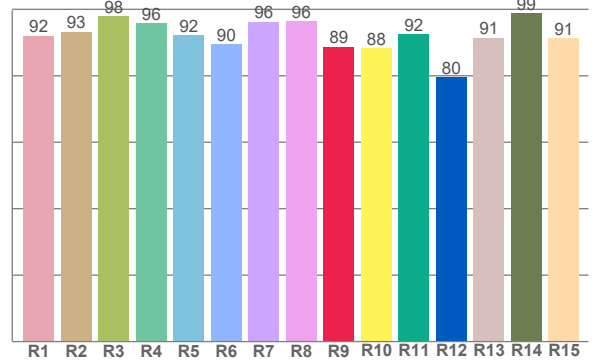
COLOR DETAILS



TM30: 93,2



CRI: 94,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,0	93,3	97,8	95,7	92,2	89,5	96,3	96,4	88,7	88,3	92,5	79,6	91,4	98,9	91,4

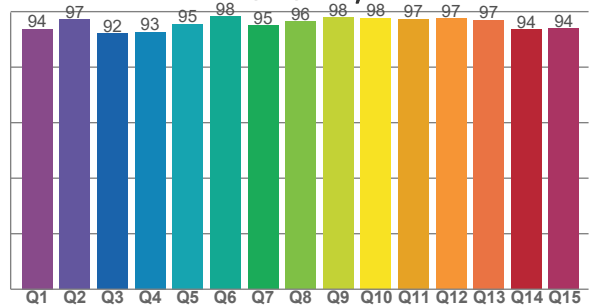
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,5	95,7	95,0	94,0	92,9	96,2	91,4	97,0	91,9	90,4	91,0	90,9	94,1	92,8	91,6	90,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,7	97,2	92,2	92,7	95,5	98,3	95,0	96,5	97,9	97,7	97,4	97,5	97,0	93,6	94,0

CQS: 95,1



COLOR PARAMETERS

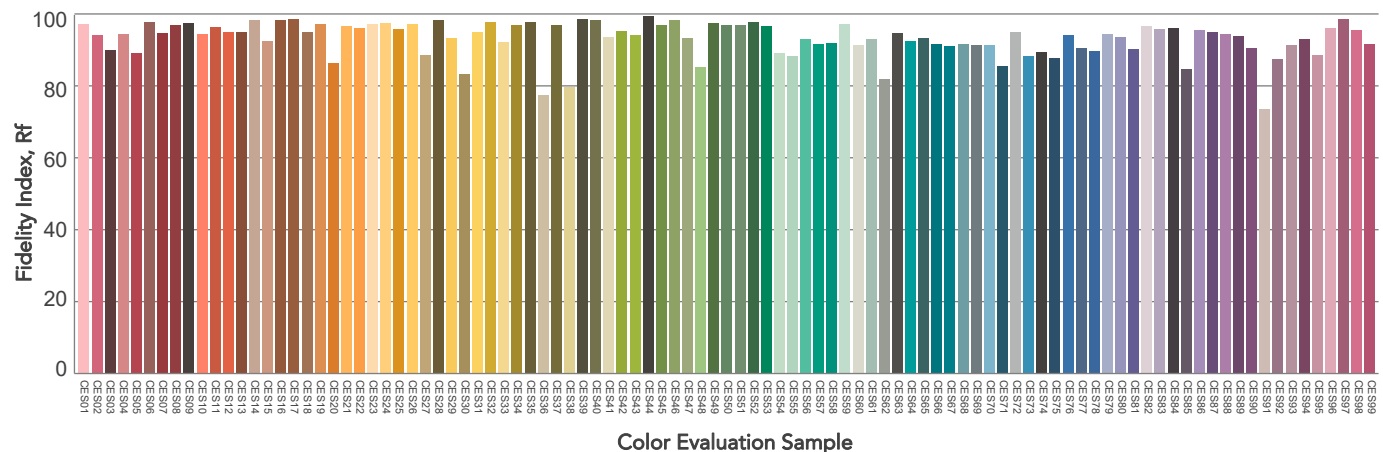
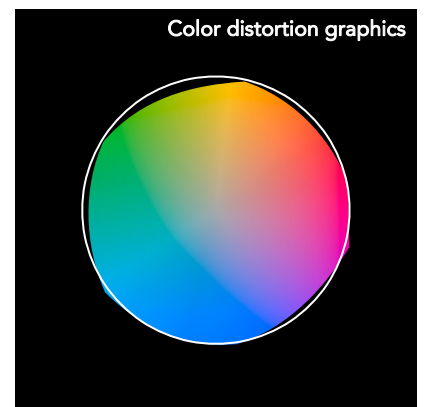
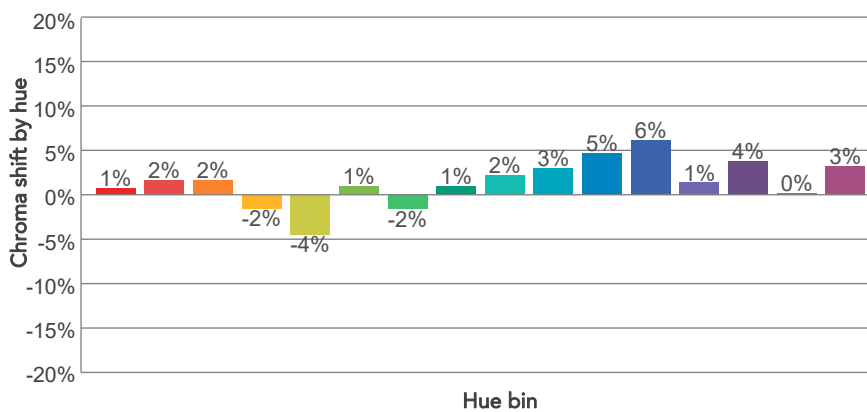
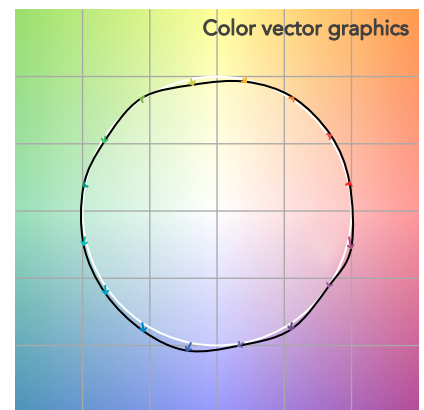
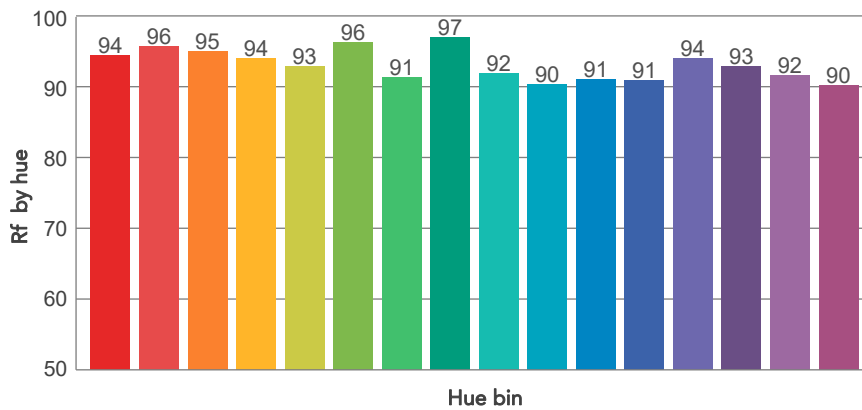
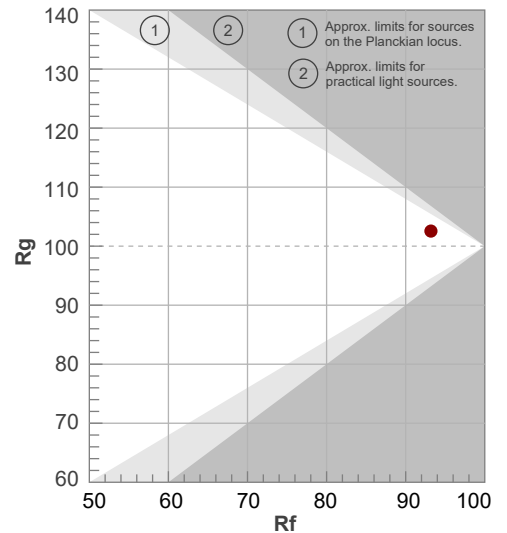
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3235 K	94,2	88,7	93,2	102,6	95,1	98	0,412	0,376	-0,0079

TM30 DETAILS

Rf 93,2
Fidelity index Rf

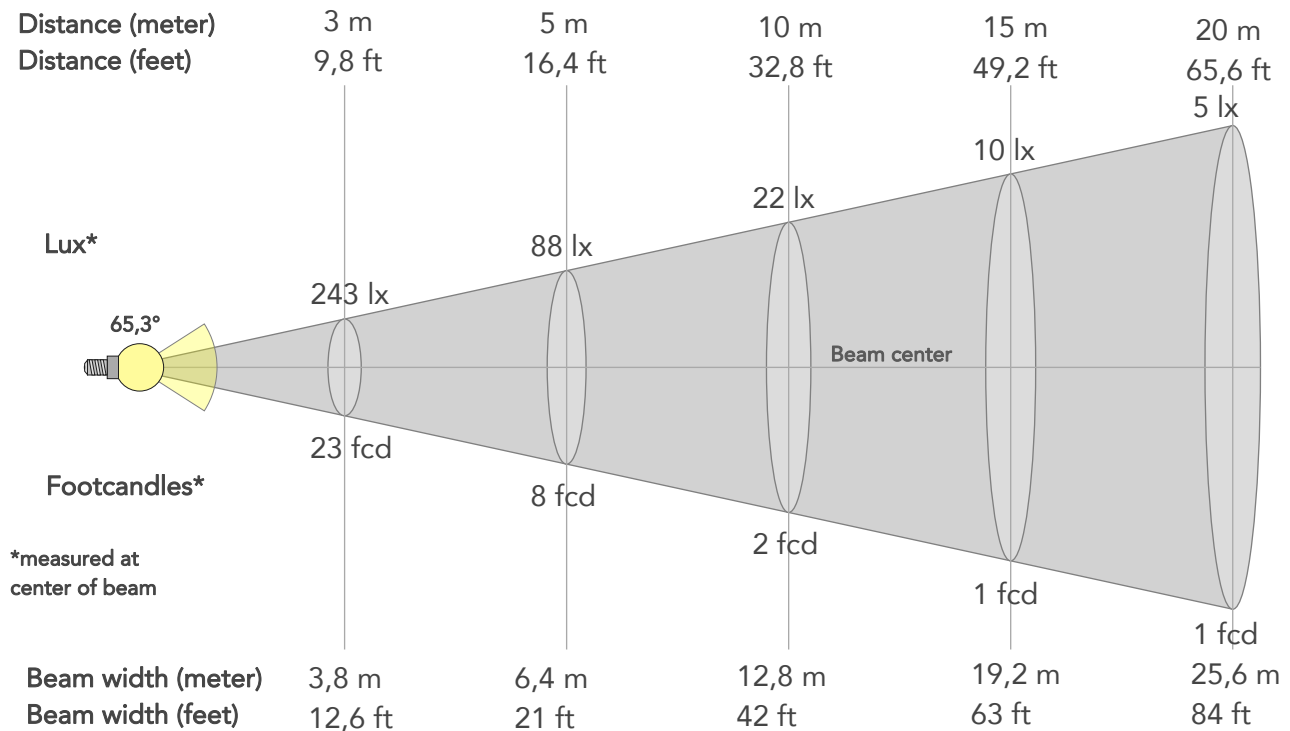
Rg 102,6
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	2%
2	96	2%	0%
3	95	2%	0%
4	94	-2%	-2%
5	93	-4%	-1%
6	96	1%	1%
7	91	-2%	4%
8	97	1%	1%
9	92	2%	5%
10	90	3%	5%
11	91	5%	4%
12	91	6%	-2%
13	94	1%	-4%
14	93	4%	-4%
15	92	0%	-1%
16	90	3%	-8%



BEAM DETAILS

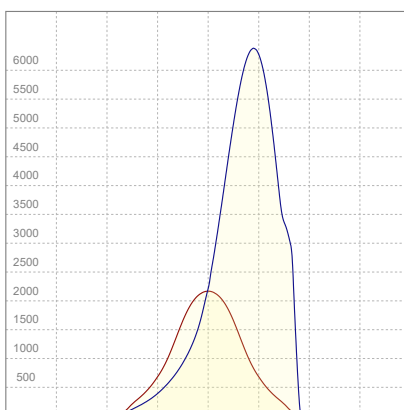
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,3°	123,5°	149,1°	77,8%	50,6%



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	2189lx	547lx	243lx	137lx	88lx	39lx	22lx	10lx	5lx	4lx	2lx	1lx	1lx
Footcand.	203fcd	51fcd	23fcd	13fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,6m	32m	38,4m	51,2m	64m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21ft	31,5ft	42ft	63ft	84ft	105ft	126ft	168ft	210ft

LINEAR DISTRIBUTION DIAGRAM

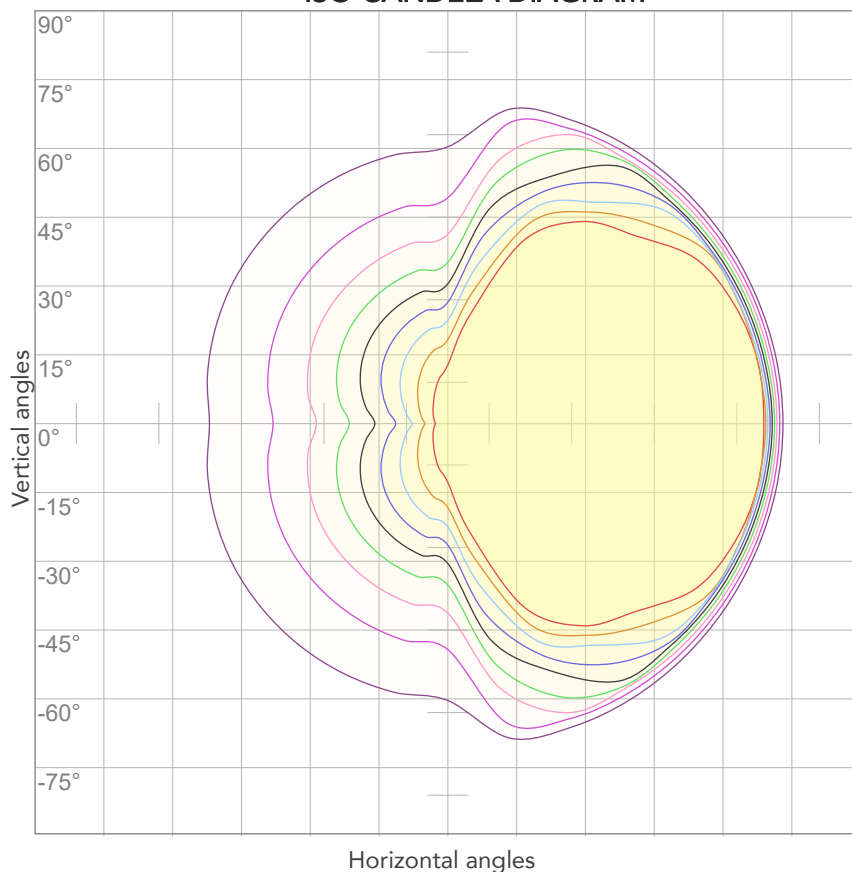


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,806A	181,2W	0,99	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



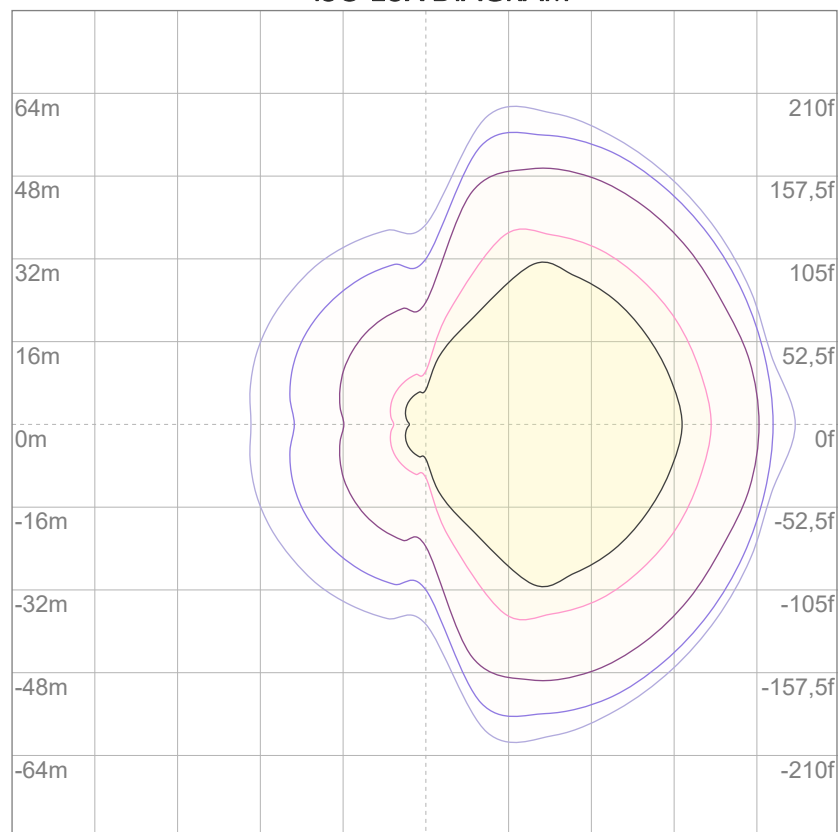
10%	219 cd
20%	438 cd
30%	657 cd
40%	876 cd
50%	1095 cd
60%	1314 cd
70%	1533 cd
80%	1751 cd

Conditions:

Number of c-planes: 4

Candela at center: 2189 cd

ISO LUX DIAGRAM



3%	0,657 lx
5%	1,09 lx
10%	2,19 lx
30%	6,57 lx
50%	10,9 lx

Conditions:

Number of c-planes: 4

Lux at center: 21,9 lx

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



Total lumen output:

8693 lm

Peak candela output:

6844 cd

Light quality:

CRI: 93,6

Color temperature:

3993 K

PRODUCT NAME:

ECLEXPOFL150IPWW

MEASURAMENT CONDITIONS:

Beam angle:

4000K

Target:

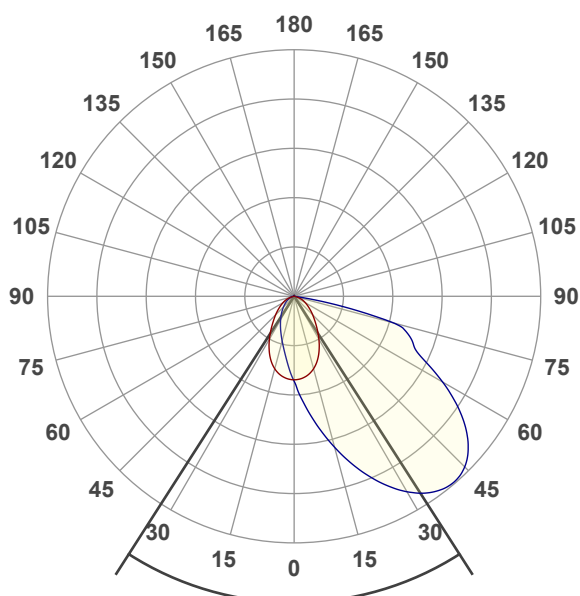
Full On

Operator:

Giuseppe della Peruta

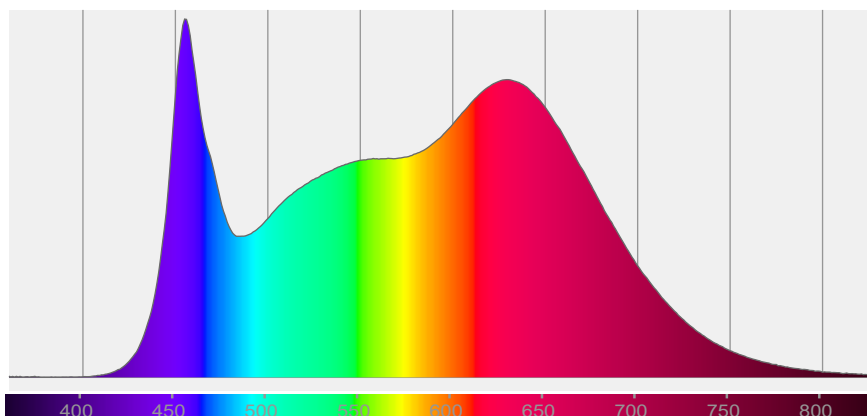
Date and time:

08/10/2025 09:31:02

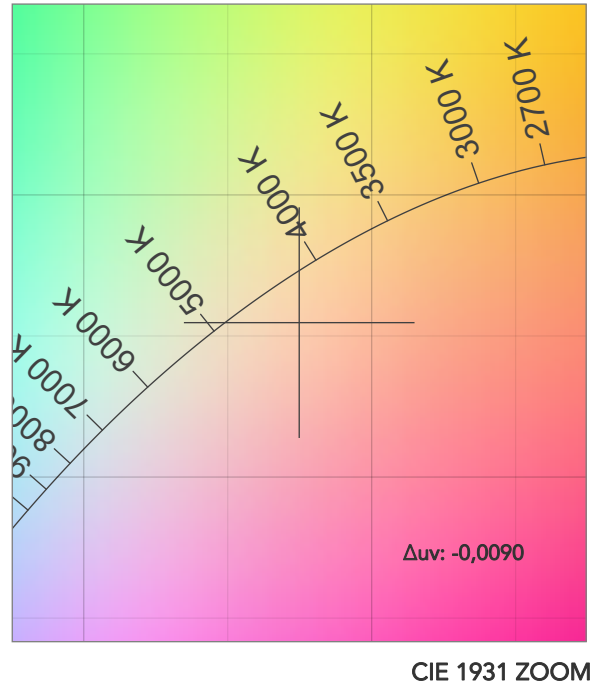
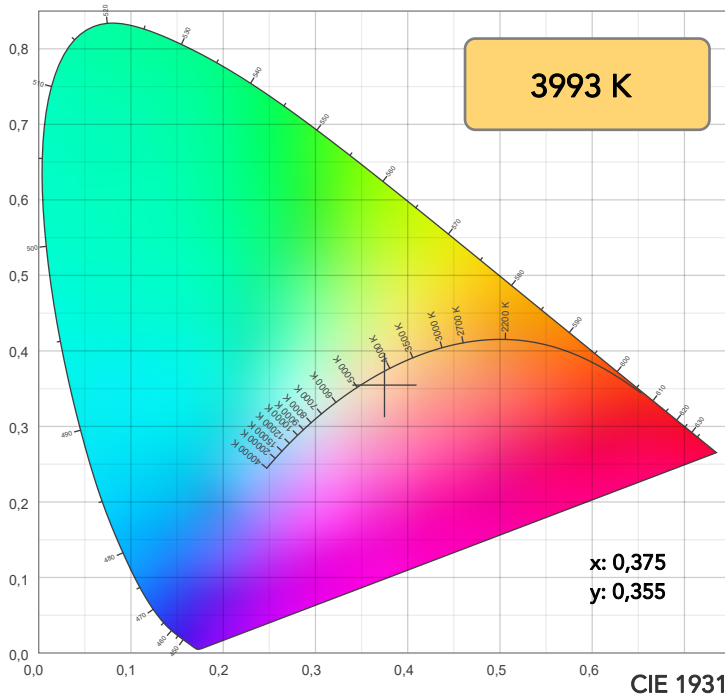


	Blue curve V	Red curve H
Beam angle 50%:	62,4°	68,3°
Field angle 10%:	112,5°	134,3°
Cut off angle 2.5%:	145°	153,1°

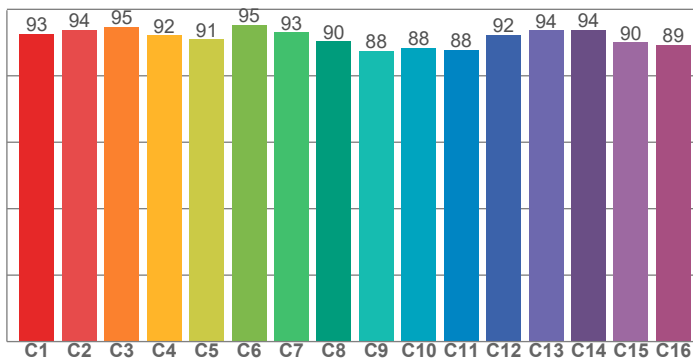
Spectra



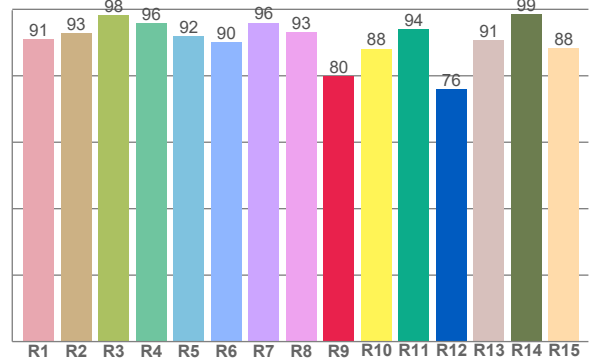
COLOR DETAILS



TM30: 91,5



CRI: 93,6 (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
90,9	92,8	98,2	95,8	91,8	90,2	96,0	93,0	79,9	88,1	94,0	75,8	90,6	98,6	88,2

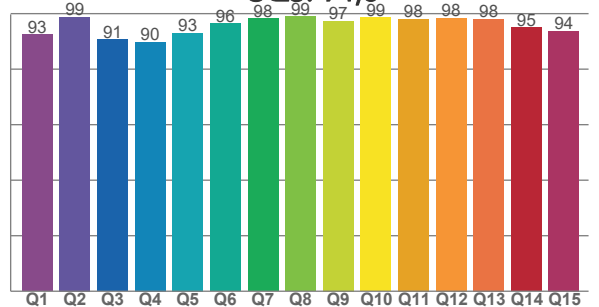
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,6	93,9	94,8	92,2	91,0	95,4	93,2	90,3	87,5	88,4	87,8	92,4	93,6	93,9	90,0	89,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,6	98,8	90,6	89,8	93,0	96,5	98,2	99,0	97,4	98,7	98,0	98,4	98,0	94,9	93,7

CQS: 94,8



COLOR PARAMETERS

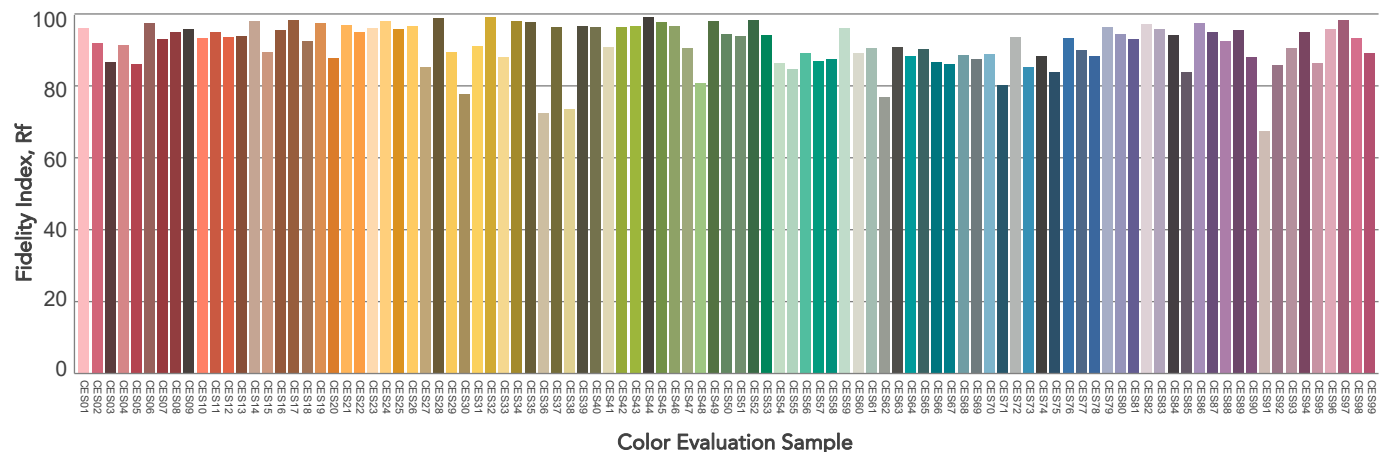
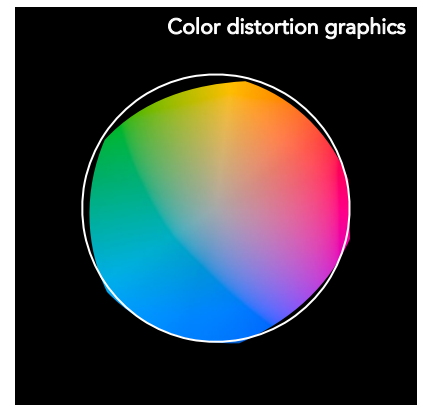
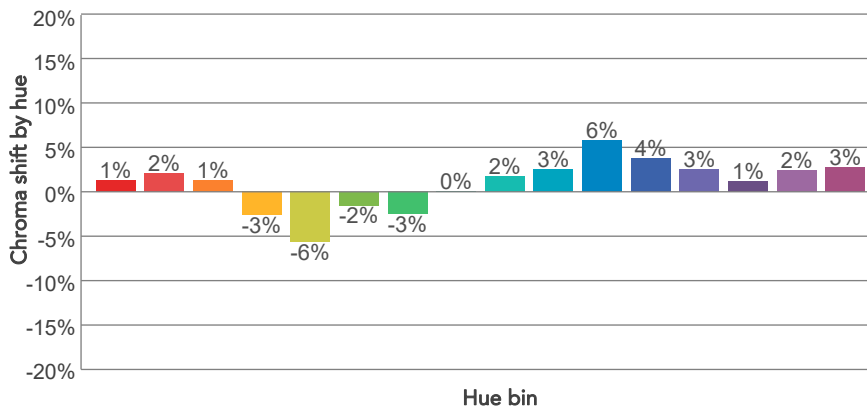
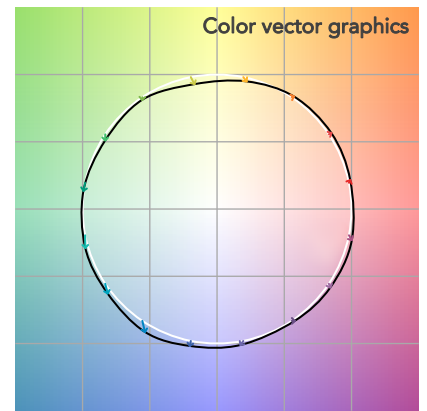
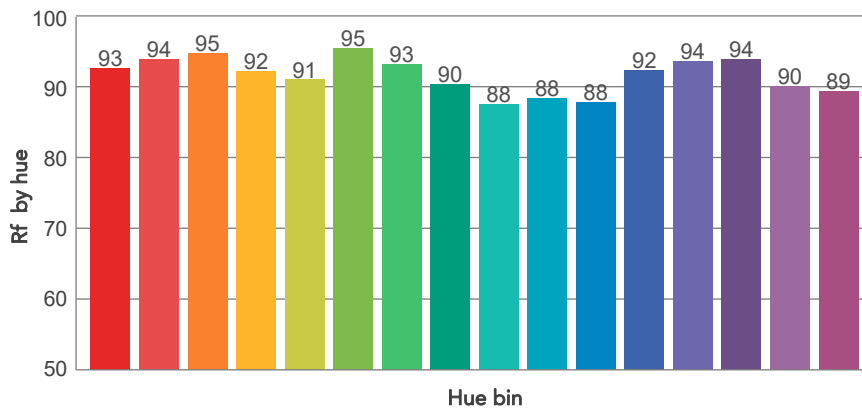
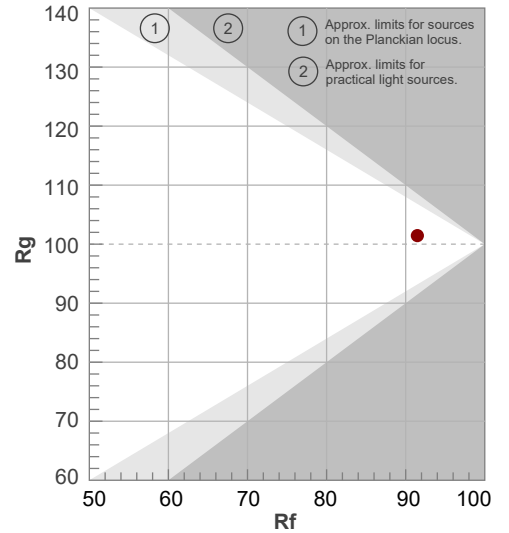
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3993 K	93,6	79,9	91,5	101,4	94,8	98	0,375	0,355	-0,0090

TM30 DETAILS

Rf 91,5
Fidelity index Rf

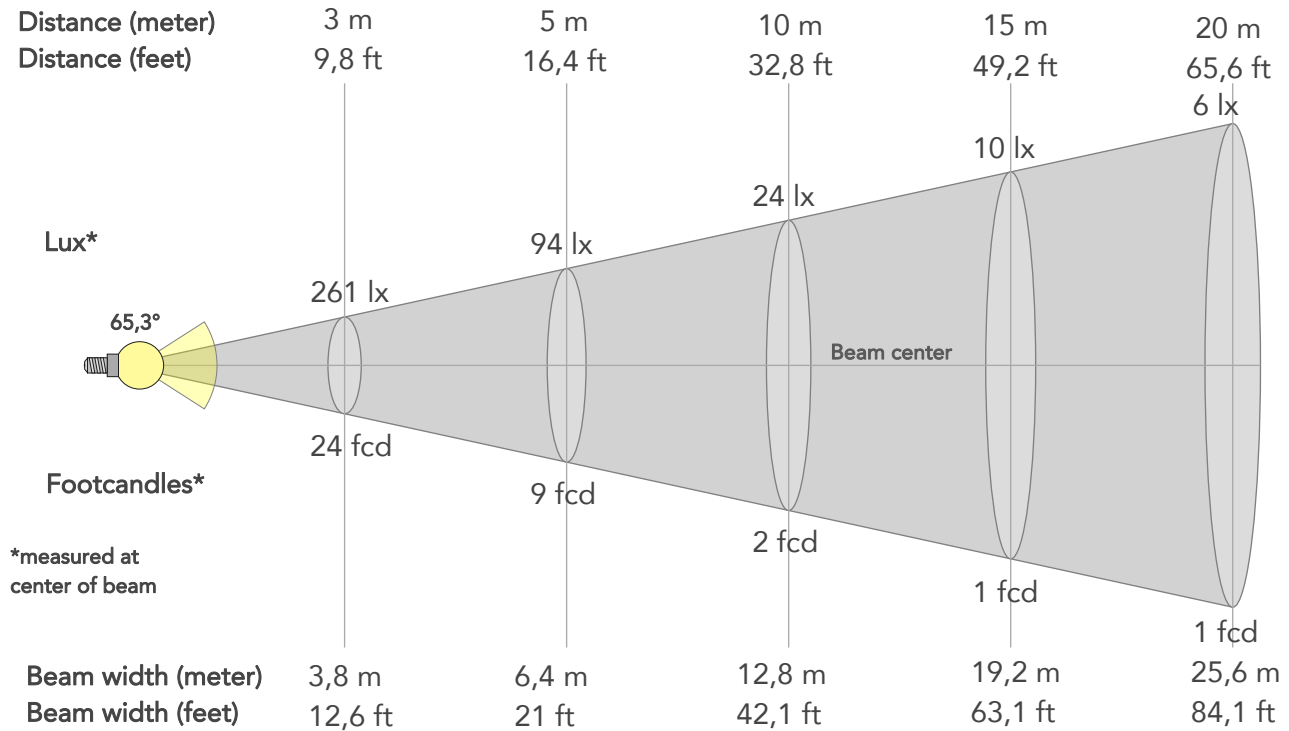
Rg 101,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	1%	2%
2	94	2%	0%
3	95	1%	-1%
4	92	-3%	-3%
5	91	-6%	-2%
6	95	-2%	1%
7	93	-3%	4%
8	90	0%	6%
9	88	2%	9%
10	88	3%	7%
11	88	6%	6%
12	92	4%	0%
13	94	3%	-3%
14	94	1%	2%
15	90	2%	-2%
16	89	3%	-3%



BEAM DETAILS

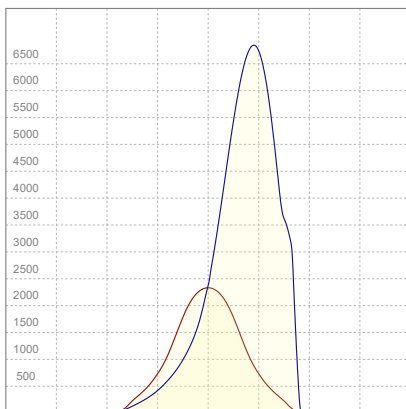
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,3°	123,4°	149,1°	77,8%	50,6%



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	2352lx	588lx	261lx	147lx	94lx	42lx	24lx	10lx	6lx	4lx	3lx	1lx	1lx
Footcand.	219fcd	55fcd	24fcd	14fcd	9fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,6m	32,1m	38,5m	51,3m	64,1m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21ft	31,5ft	42,1ft	63,1ft	84,1ft	105,2ft	126,2ft	168,2ft	210,3ft

LINEAR DISTRIBUTION DIAGRAM

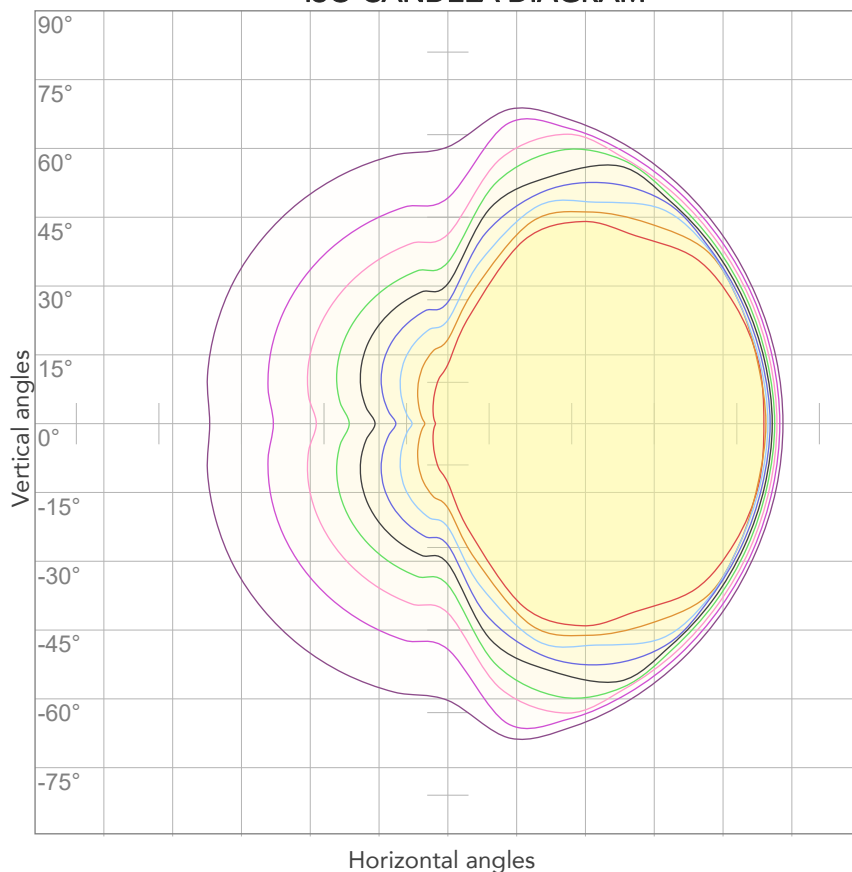


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
230V	0,793A	180,3W	0,99	48lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



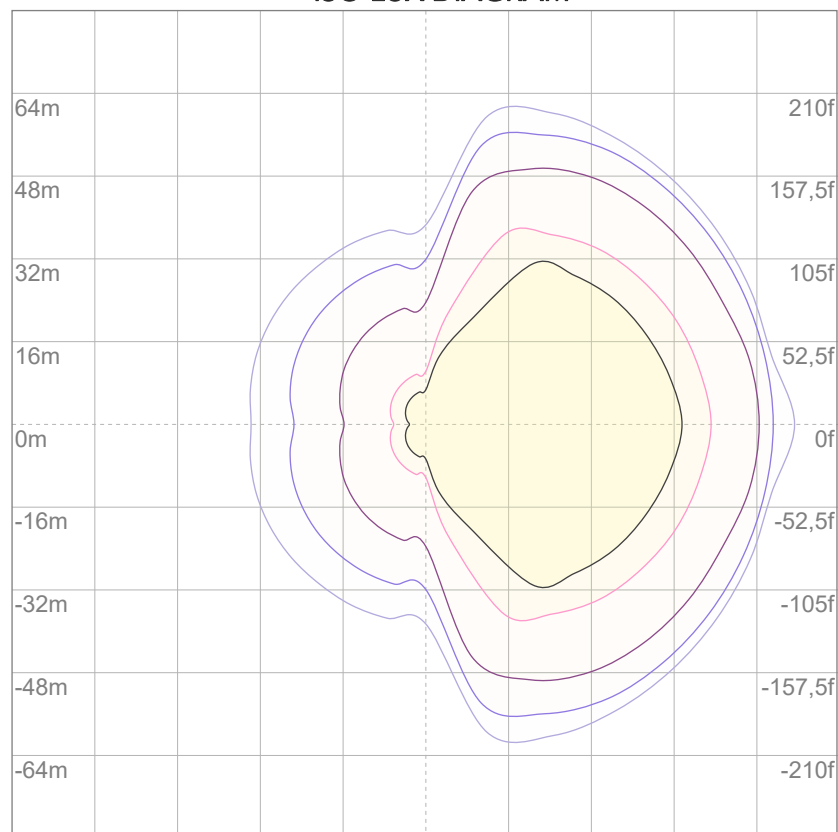
10%	235 cd
20%	470 cd
30%	706 cd
40%	941 cd
50%	1176 cd
60%	1411 cd
70%	1647 cd
80%	1882 cd

Conditions:

Number of c-planes: 4

Candela at center: 2352 cd

ISO LUX DIAGRAM



3%	0,706 lx
5%	1,18 lx
10%	2,35 lx
30%	7,06 lx
50%	11,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 23,5 lx

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



Total lumen output:

9701 lm

Peak candela output:

7632 cd

Light quality:

CRI: 93,9

Color temperature:

5628 K

PRODUCT NAME:

ECLEXPFL150IPWW

MEASURAMENT CONDITIONS:

Beam angle:

5600K

Target:

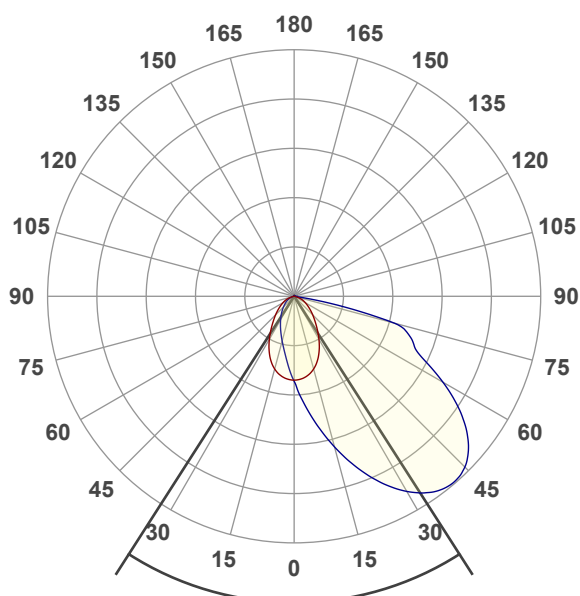
Full On

Operator:

Giuseppe della Peruta

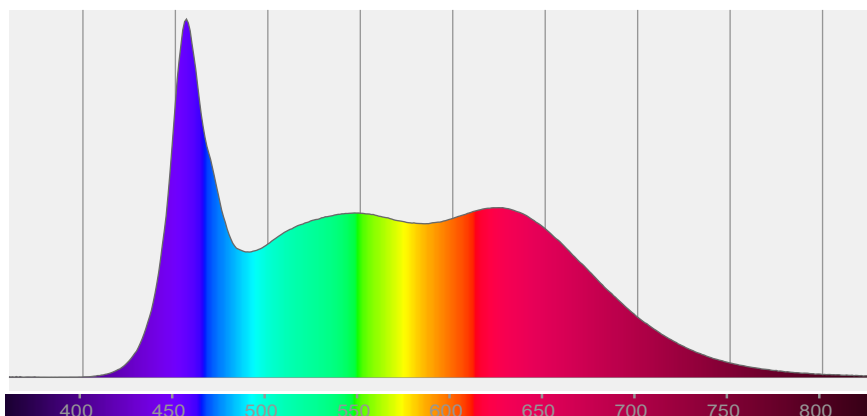
Date and time:

08/10/2025 09:42:35

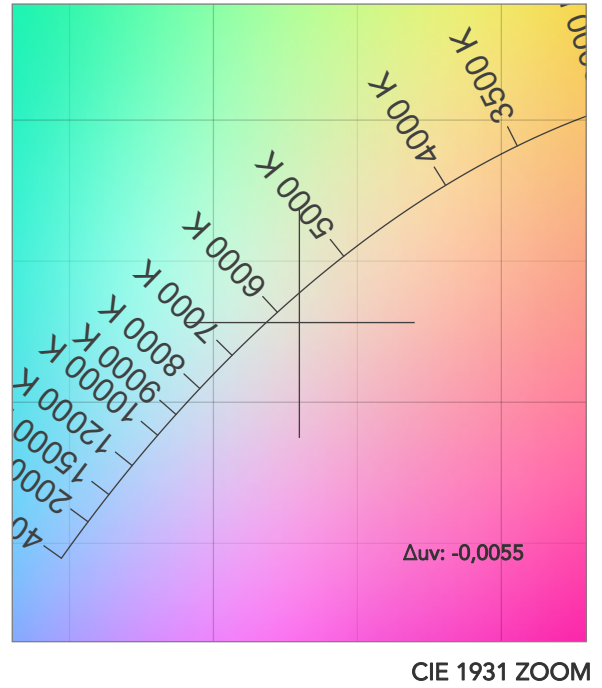
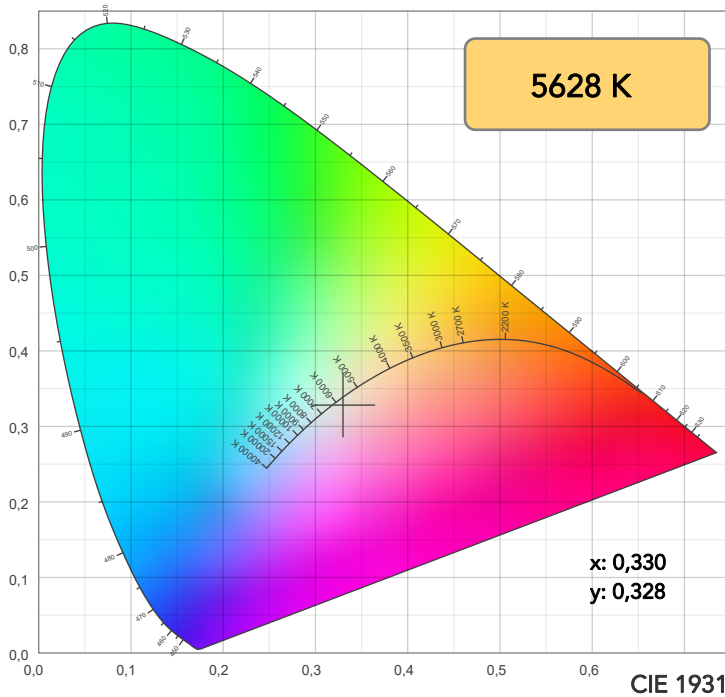


	Blue curve V	Red curve H
Beam angle 50%:	62,5°	68,2°
Field angle 10%:	112,5°	134,1°
Cut off angle 2.5%:	144,9°	153°

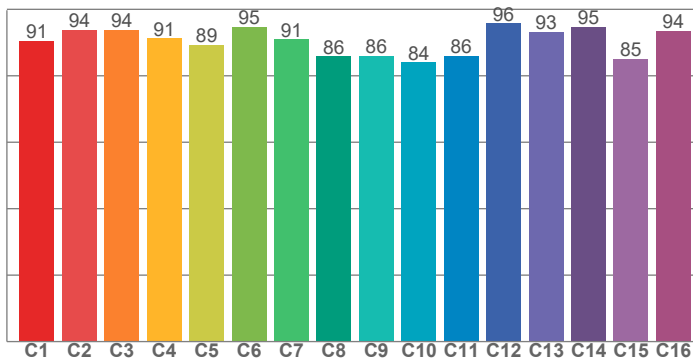
Spectra



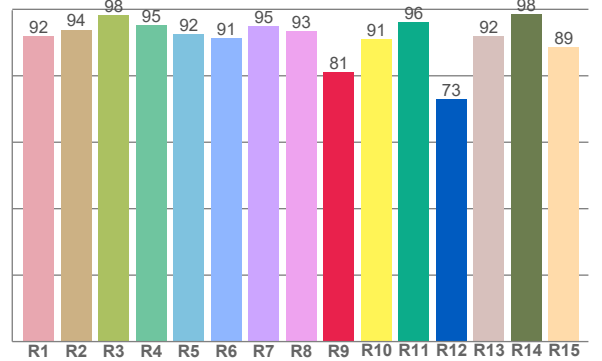
COLOR DETAILS



TM30: 90,3



CRI: 93,9 (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
91,9	93,8	98,2	95,1	92,5	91,4	94,9	93,4	81,0	91,0	96,2	72,9	92,0	98,5	88,7

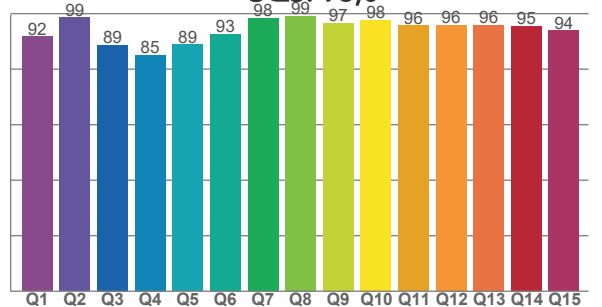
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,6	93,8	93,9	91,4	89,4	94,7	91,0	85,9	86,0	84,1	86,0	95,8	93,2	94,7	85,1	93,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,8	98,6	88,6	85,1	88,8	92,7	98,4	99,1	96,7	97,7	95,7	95,8	95,8	95,5	94,0

CQS: 93,0



COLOR PARAMETERS

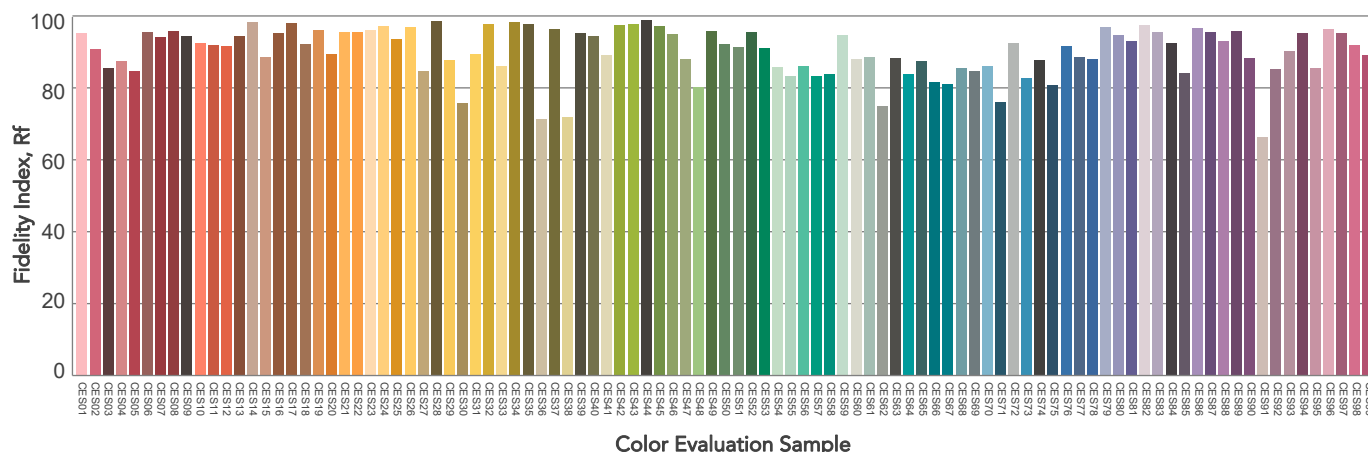
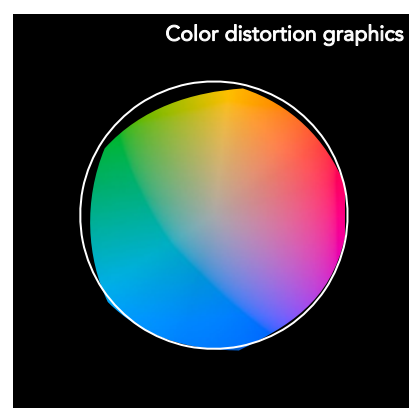
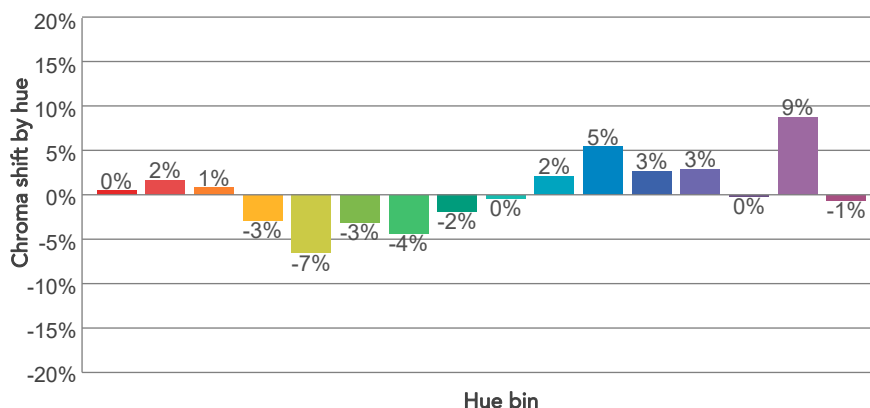
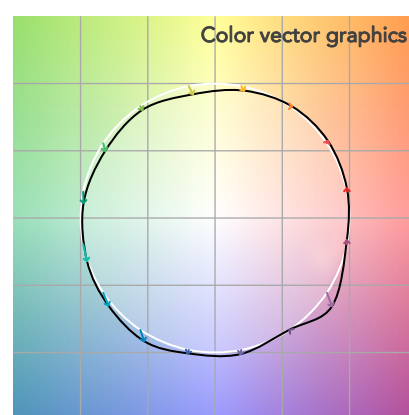
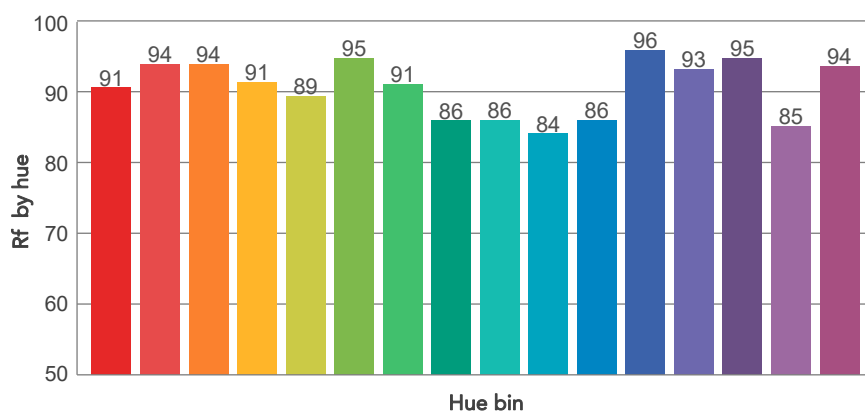
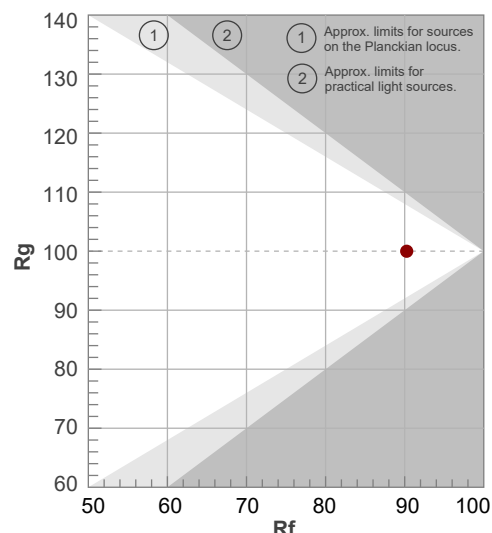
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5628 K	93,9	81,0	90,3	100,0	93,0	96	0,330	0,328	-0,0055

TM30 DETAILS

Rf 90,3
Fidelity index Rf

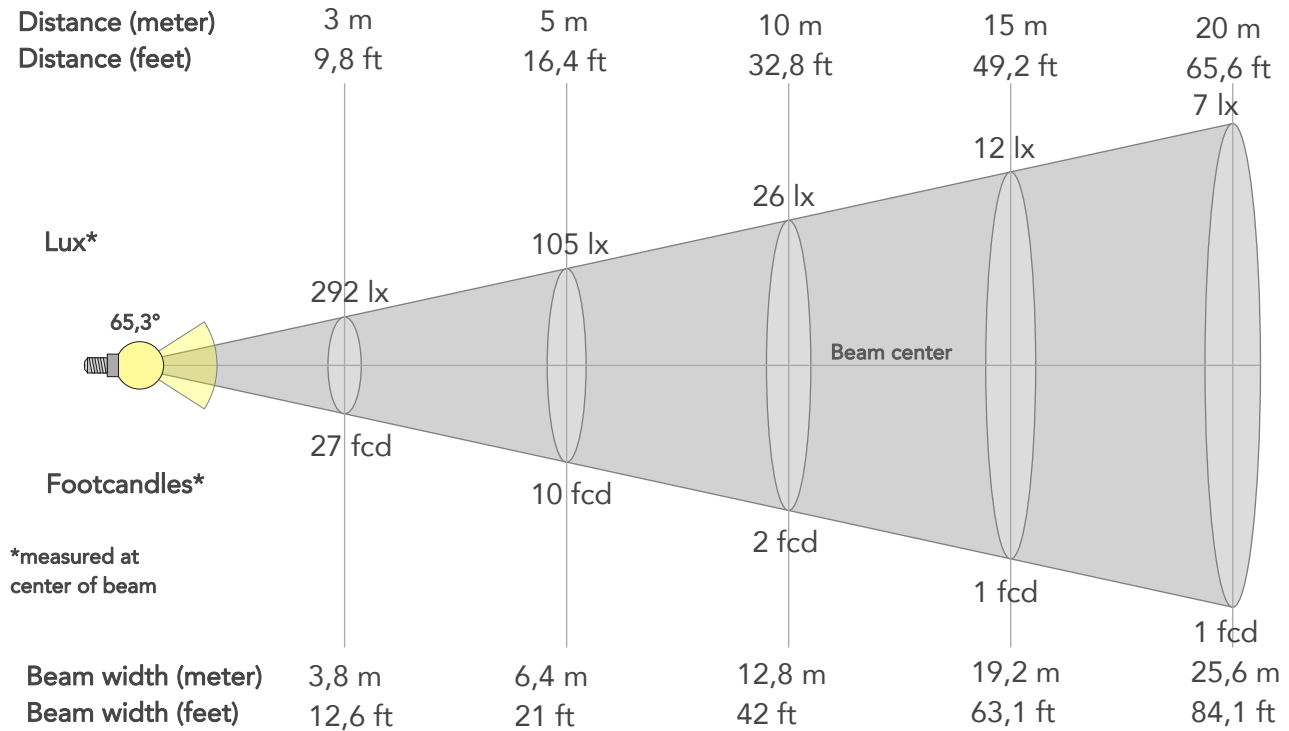
Rg 100,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	0%	3%
2	94	2%	1%
3	94	1%	-1%
4	91	-3%	-3%
5	89	-7%	-2%
6	95	-3%	0%
7	91	-4%	4%
8	86	-2%	8%
9	86	0%	13%
10	84	2%	10%
11	86	5%	7%
12	96	3%	-1%
13	93	3%	-1%
14	95	0%	0%
15	85	9%	-6%
16	94	-1%	3%



BEAM DETAILS

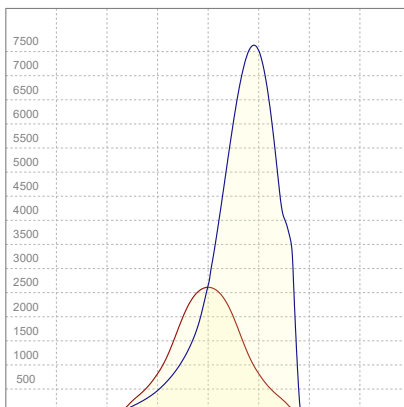
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,3°	123,3°	148,9°	77,7%	50,5%



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	2629lx	657lx	292lx	164lx	105lx	47lx	26lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	244fcd	61fcd	27fcd	15fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,6m	32m	38,5m	51,3m	64,1m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21ft	31,5ft	42ft	63,1ft	84,1ft	105,1ft	126,1ft	168,2ft	210,2ft

LINEAR DISTRIBUTION DIAGRAM

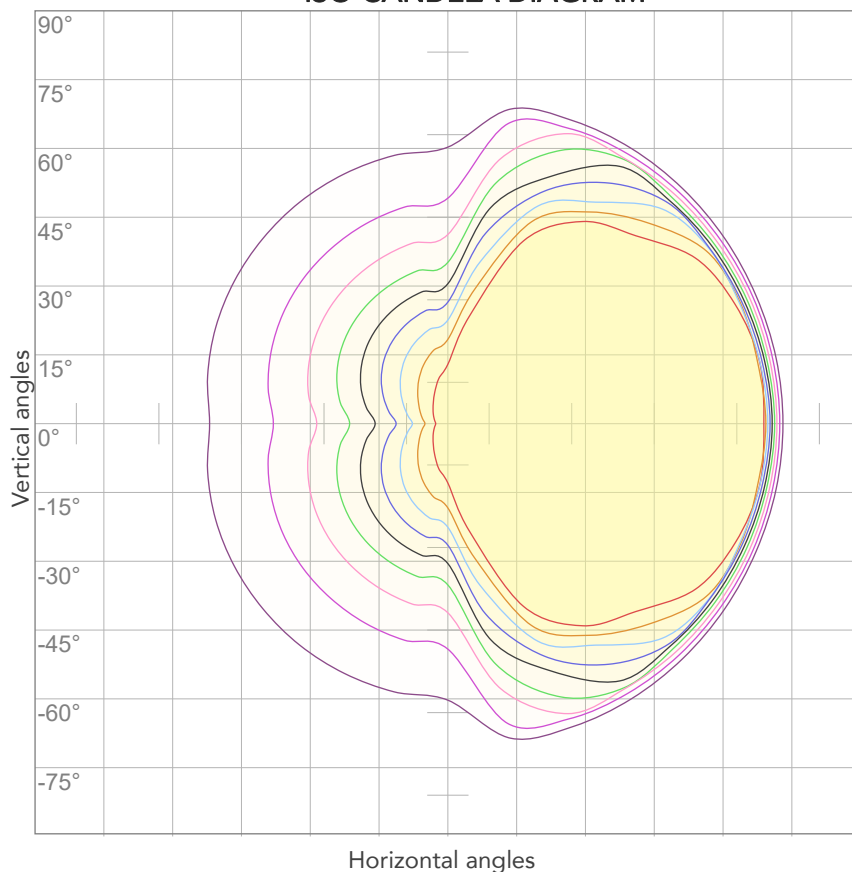


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,803A	182,1W	0,99	53lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



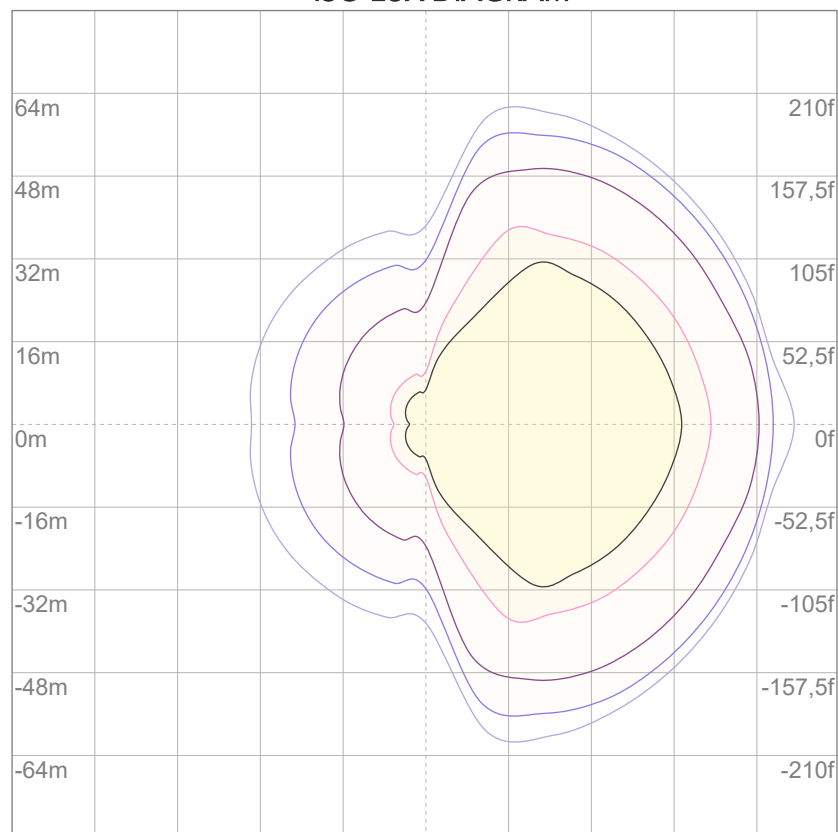
10%	263 cd
20%	526 cd
30%	789 cd
40%	1052 cd
50%	1314 cd
60%	1577 cd
70%	1840 cd
80%	2103 cd

Conditions:

Number of c-planes: 4

Candela at center: 2629 cd

ISO LUX DIAGRAM



3%	0,789 lx
5%	1,31 lx
10%	2,63 lx
30%	7,89 lx
50%	13,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 26,3 lx

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



Total lumen output:

9863 lm

Peak candela output:

7764 cd

Light quality:

CRI: 94,0

Color temperature:

6009 K

PRODUCT NAME:

ECLEXPFL150IPWW

MEASUREMENT CONDITIONS:

Beam angle:

6000K

Target:

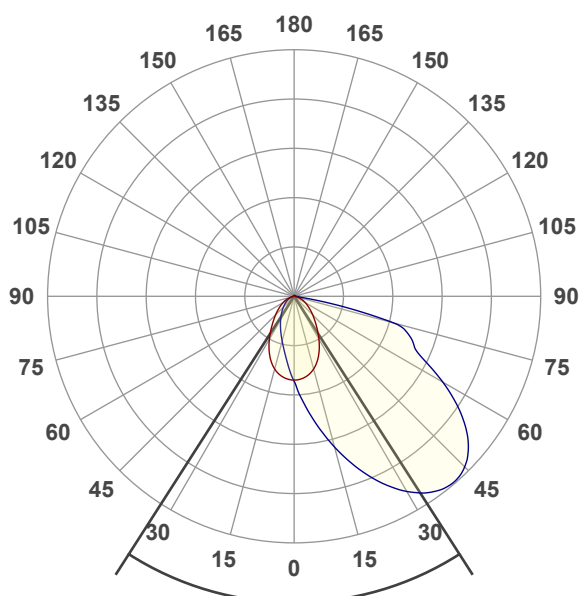
Full On

Operator:

Giuseppe della Peruta

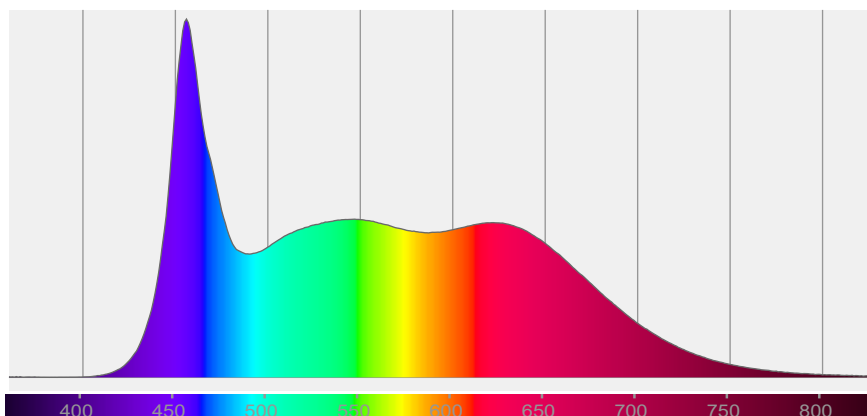
Date and time:

08/10/2025 09:58:54

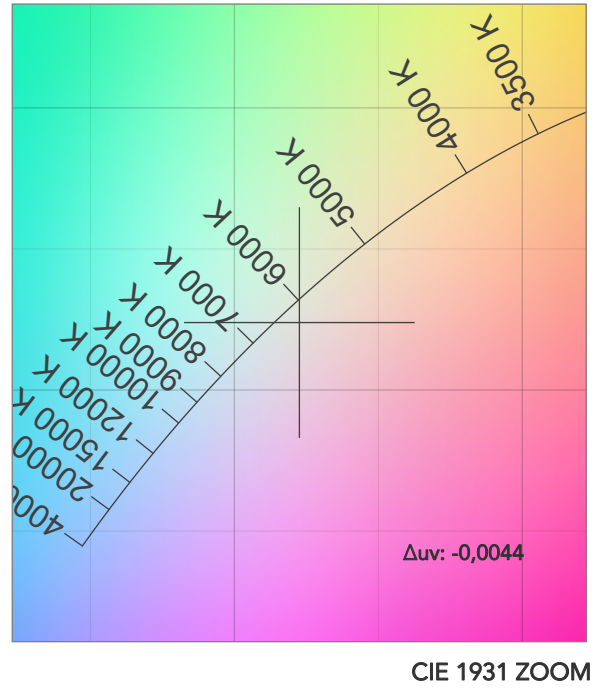
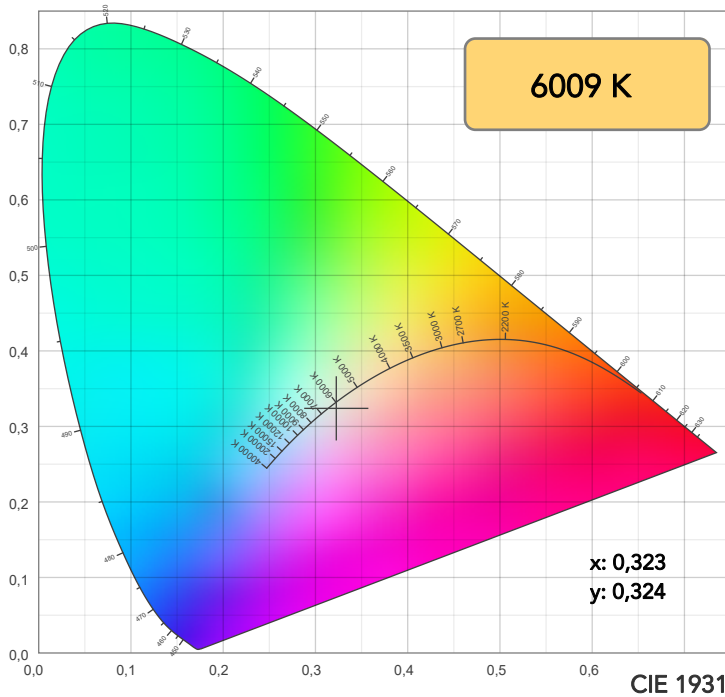


	Blue curve V	Red curve H
Beam angle 50%:	62,5°	68,2°
Field angle 10%:	112,5°	134,2°
Cut off angle 2.5%:	145°	153°

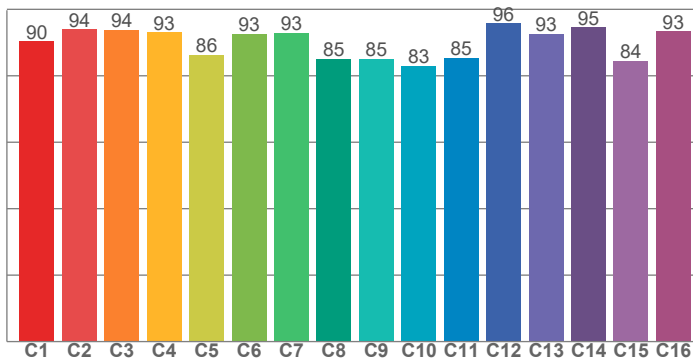
Spectra



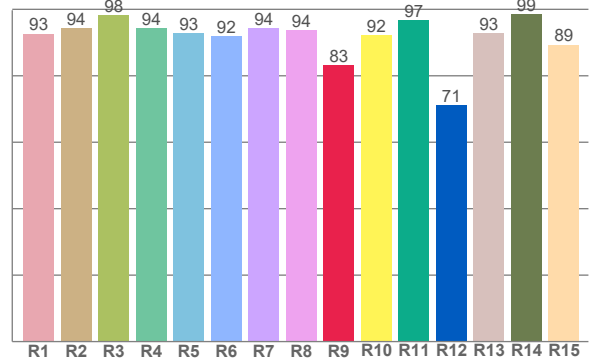
COLOR DETAILS



TM30: 89,7



CRI: 94,0 (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
92,7	94,4	98,2	94,4	92,7	91,9	94,3	93,6	83,3	92,1	96,7	71,2	92,9	98,6	89,4

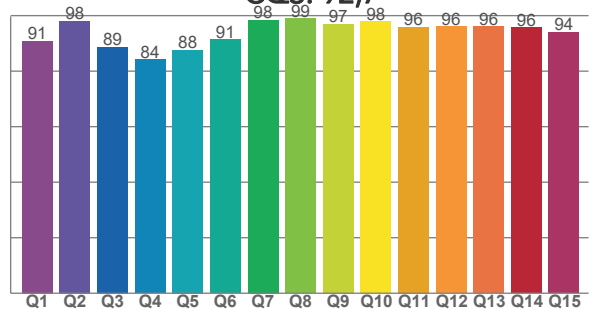
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,3	93,9	93,8	93,1	86,3	92,7	92,9	85,1	85,1	83,0	85,5	95,7	92,6	94,6	84,4	93,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,9	98,0	88,7	84,3	87,7	91,3	98,4	99,0	97,1	97,9	95,9	96,0	96,0	95,8	94,0

CQS: 92,7



COLOR PARAMETERS

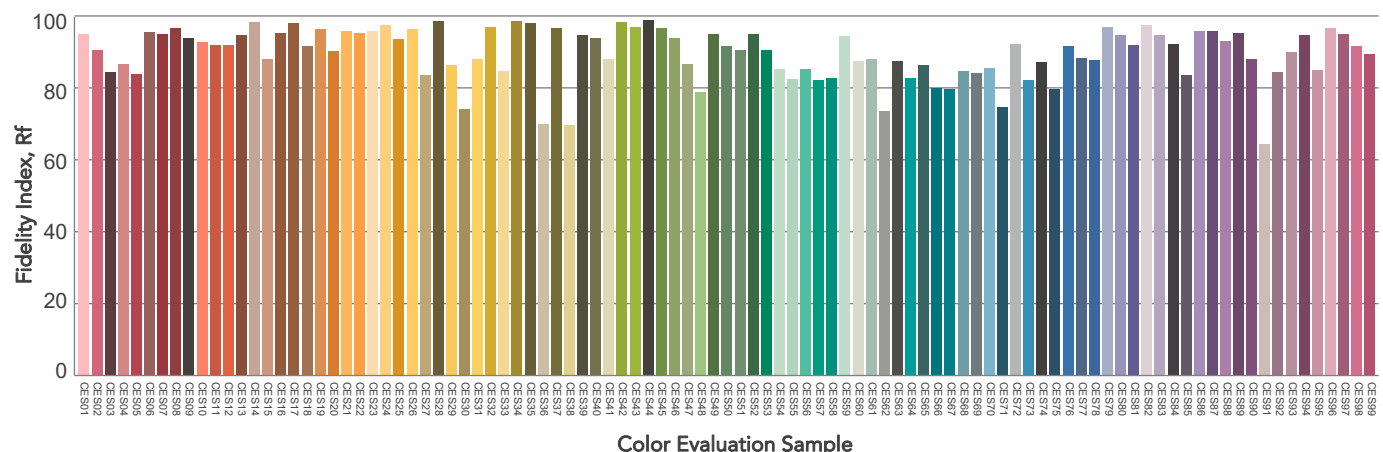
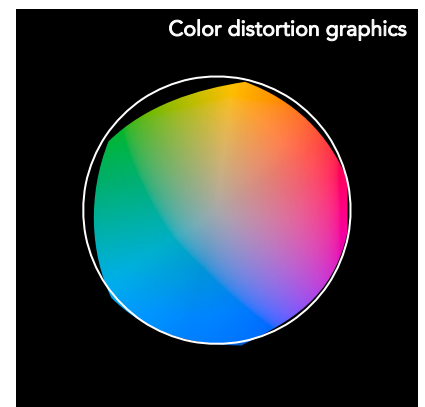
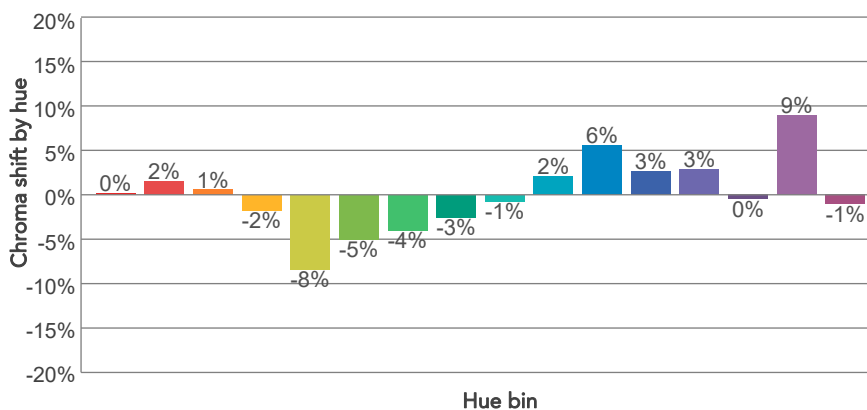
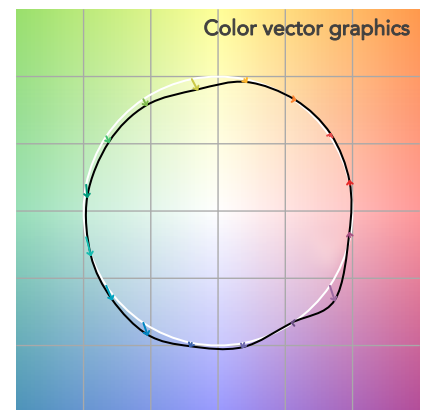
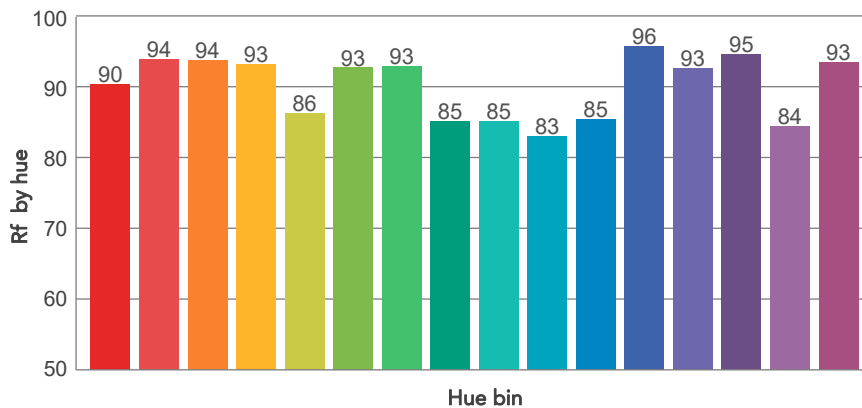
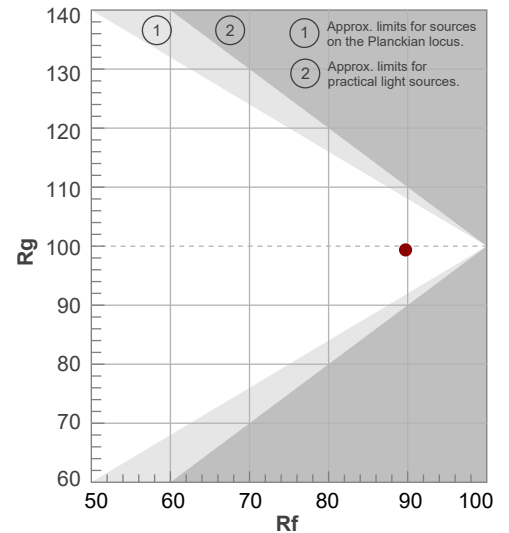
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6009 K	94,0	83,3	89,7	99,4	92,7	96	0,323	0,324	-0,0044

TM30 DETAILS

Rf 89,7
Fidelity index Rf

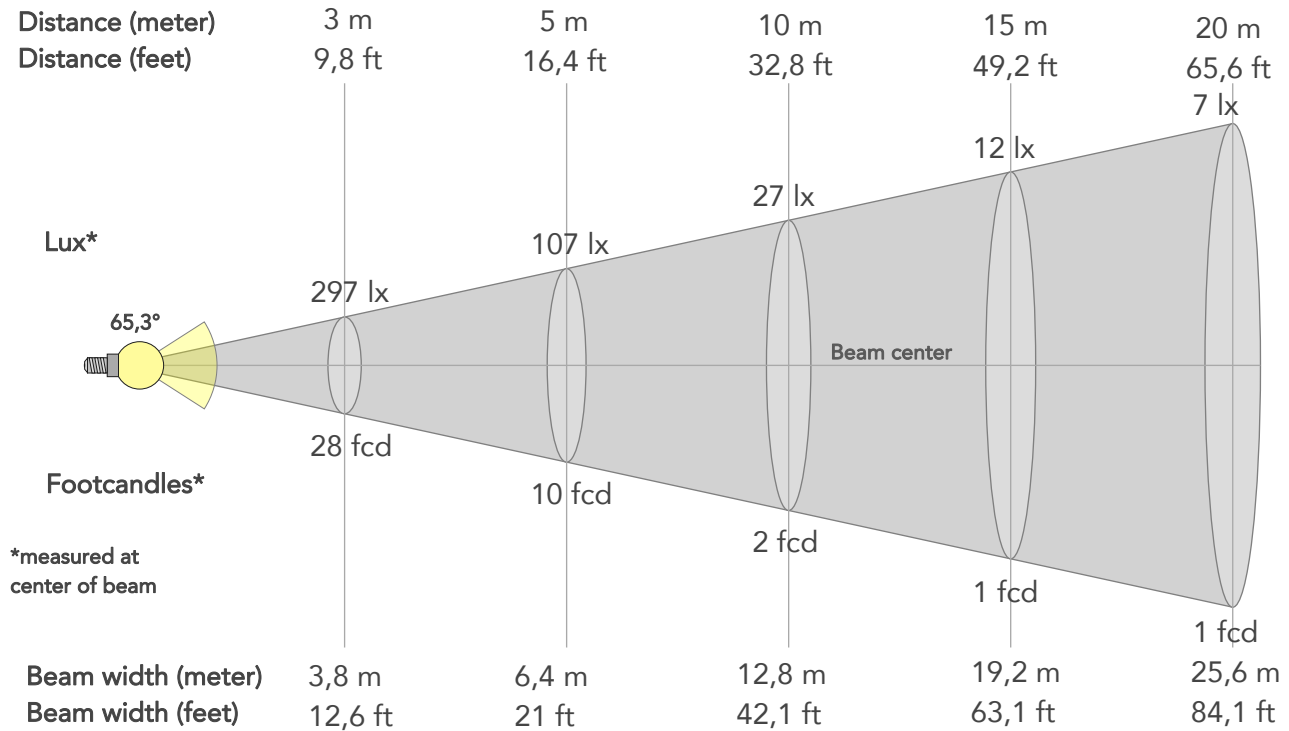
Rg 99,4
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	0%	3%
2	94	2%	1%
3	94	1%	-2%
4	93	-2%	-2%
5	86	-8%	-3%
6	93	-5%	1%
7	93	-4%	2%
8	85	-3%	9%
9	85	-1%	14%
10	83	2%	11%
11	85	6%	7%
12	96	3%	-1%
13	93	3%	-2%
14	95	0%	-1%
15	84	9%	-7%
16	93	-1%	3%



BEAM DETAILS

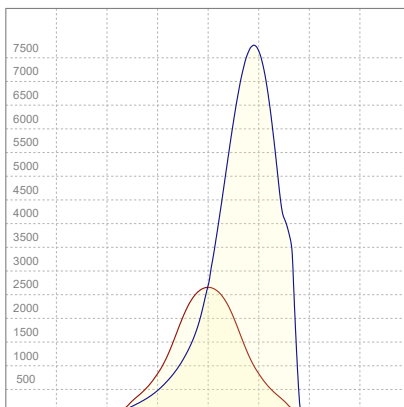
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65,3°	123,3°	149°	77,8%	50,6%



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	2674lx	669lx	297lx	167lx	107lx	48lx	27lx	12lx	7lx	4lx	3lx	2lx	1lx
Footcand.	248fcd	62fcd	28fcd	16fcd	10fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,3m	2,6m	3,8m	5,1m	6,4m	9,6m	12,8m	19,2m	25,6m	32,1m	38,5m	51,3m	64,1m
Beam wid.	4,2ft	8,5ft	12,6ft	16,8ft	21ft	31,5ft	42,1ft	63,1ft	84,1ft	105,1ft	126,2ft	168,2ft	210,3ft

LINEAR DISTRIBUTION DIAGRAM

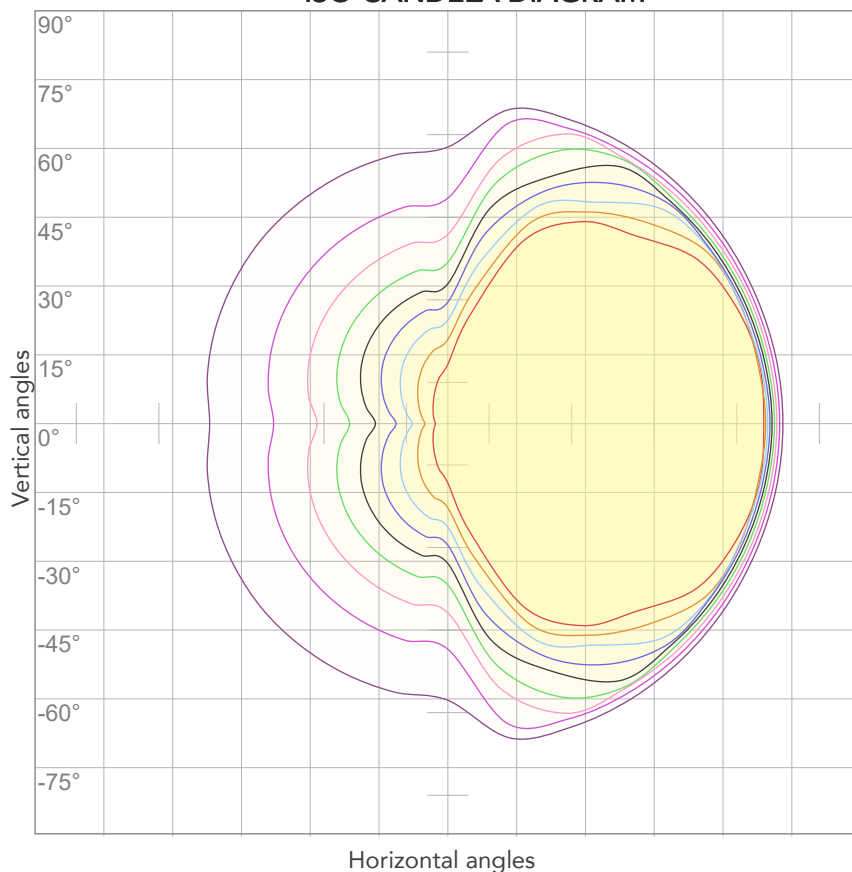


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	0,801A	181,8W	0,99	54lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



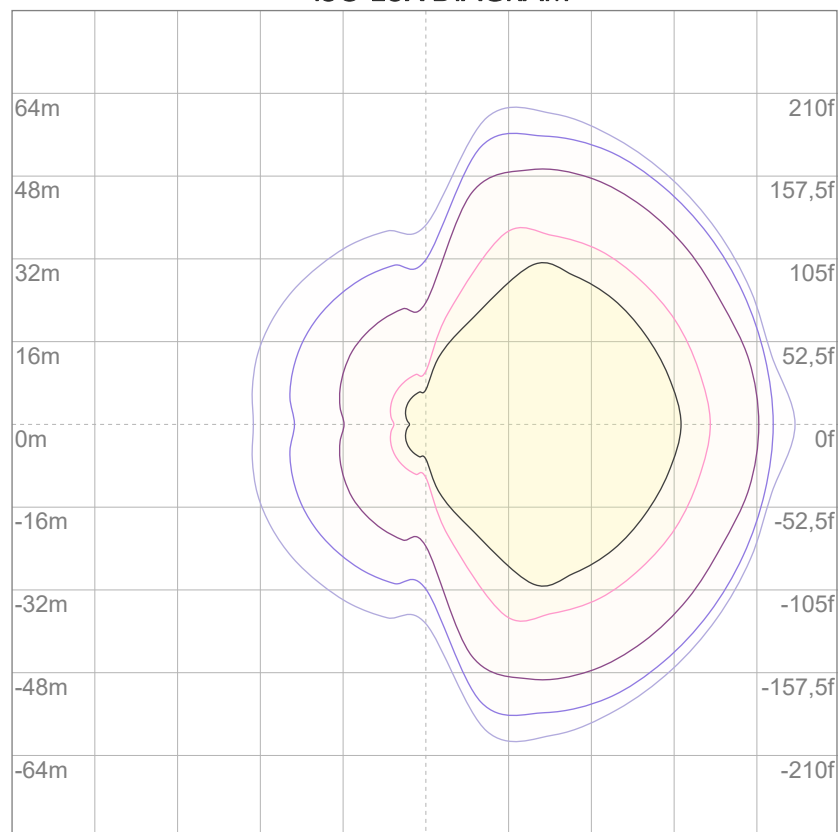
10%	267 cd
20%	535 cd
30%	802 cd
40%	1070 cd
50%	1337 cd
60%	1604 cd
70%	1872 cd
80%	2139 cd

Conditions:

Number of c-planes: 4

Candela at center: 2674 cd

ISO LUX DIAGRAM



3%	0,802 lx
5%	1,34 lx
10%	2,67 lx
30%	8,02 lx
50%	13,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 26,7 lx

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