

Photometric Test Report



EclExpoFlood 300IPFC

IP65 300W 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:

13457 lm

Peak candela output:

8503 cd

Light quality:

CRI: 93,4

Color temperature:

5233 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

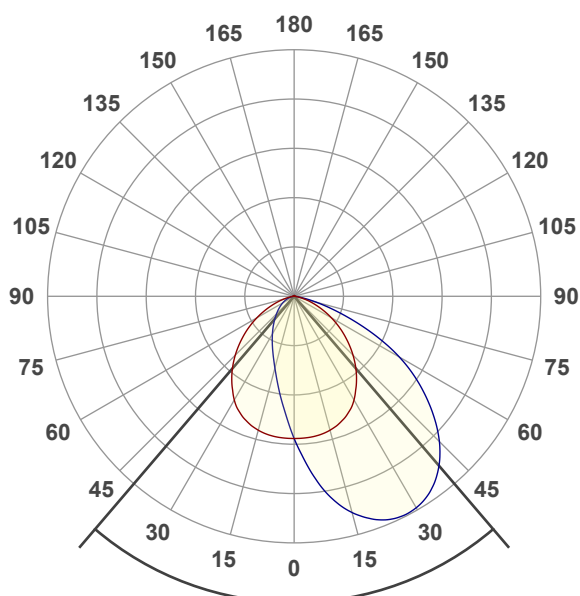
Full On HQ

Operator:

Giuseppe della Peruta

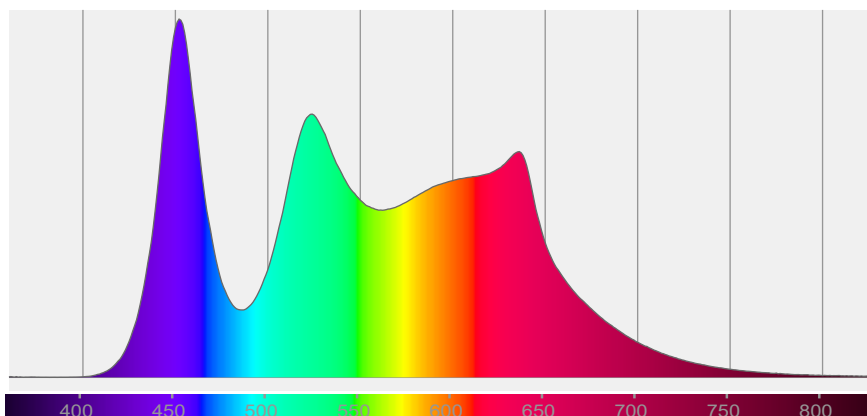
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04/09/2025 13:44:18

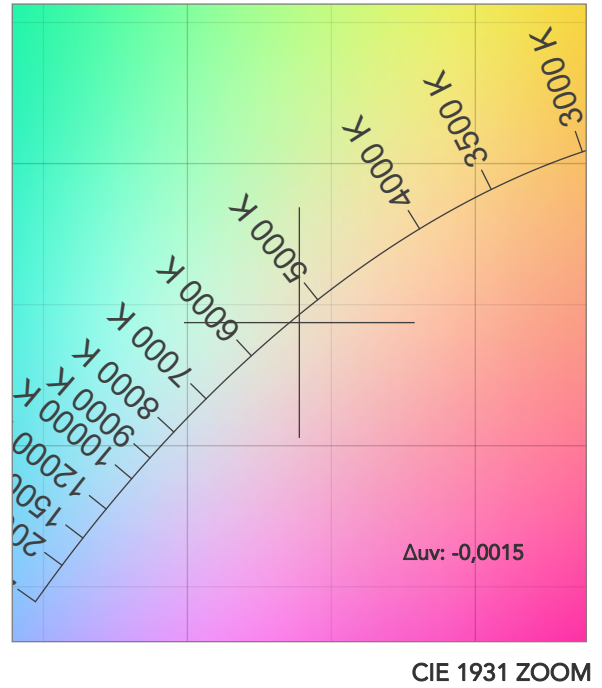
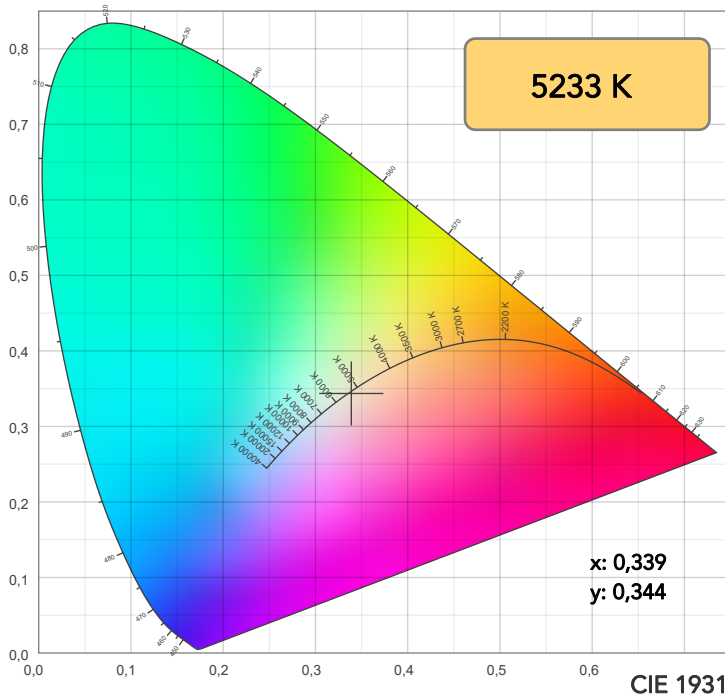


	Blue curve V	Red curve H
Beam angle 50%:	63,2°	98,9°
Field angle 10%:	120,2°	145,8°
Cut off angle 2.5%:	152,2°	162,1°

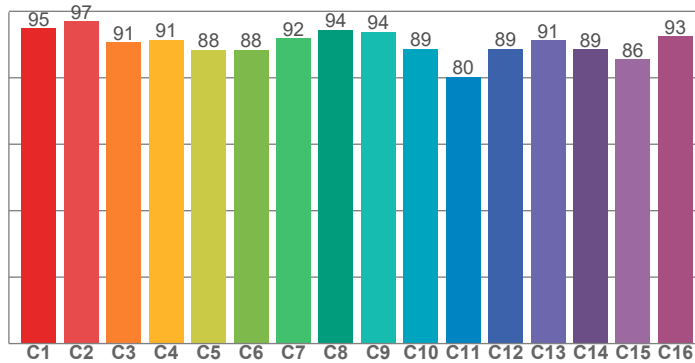
Spectra



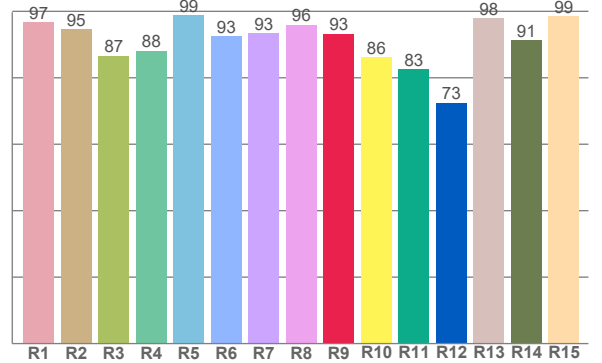
COLOR DETAILS



TM30: 90,3



CRI: 93,4 (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
96,8	94,7	86,6	88,2	98,9	92,6	93,3	96,0	93,3	86,2	82,6	72,5	97,9	91,4	98,6

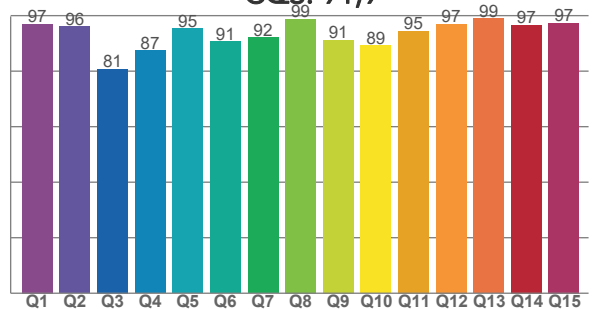
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,0	96,9	90,8	91,5	88,4	88,5	91,9	94,4	93,8	88,7	80,3	88,7	91,2	88,6	85,5	92,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,0	96,0	80,7	87,4	95,4	90,8	92,2	98,8	91,2	89,2	94,5	97,0	98,9	96,6	97,4

CQS: 91,9



COLOR PARAMETERS

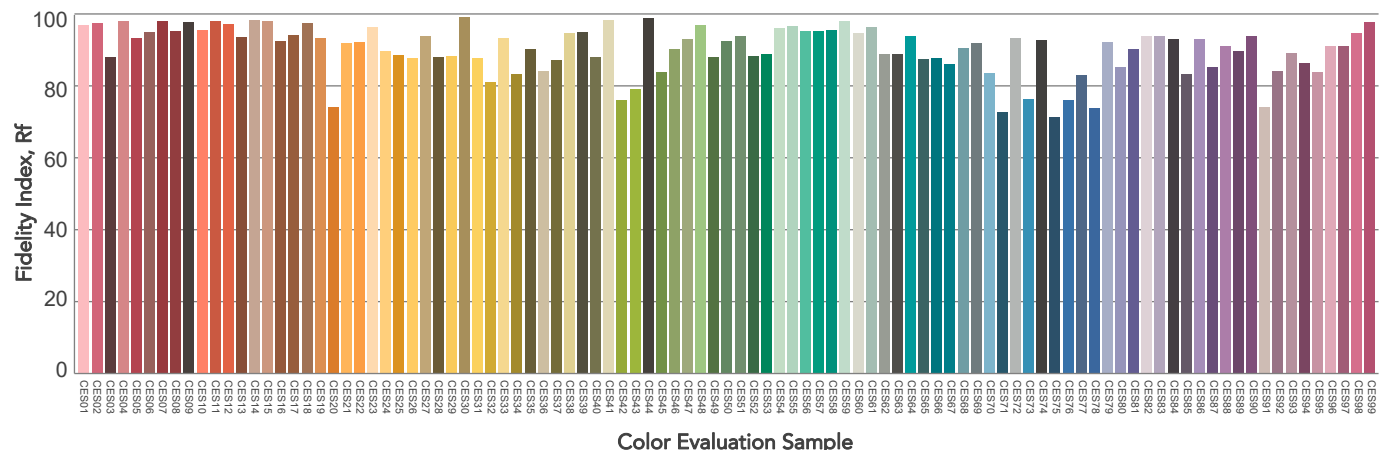
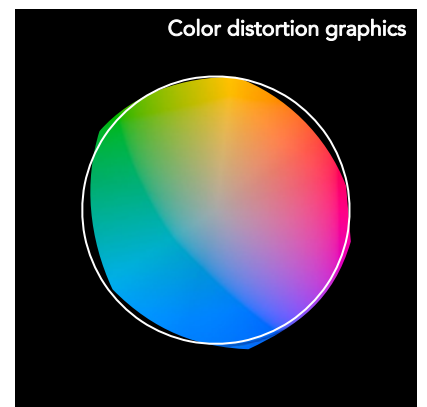
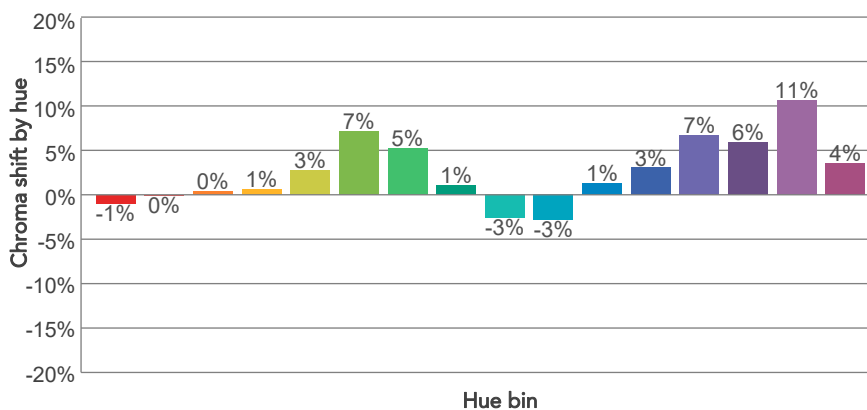
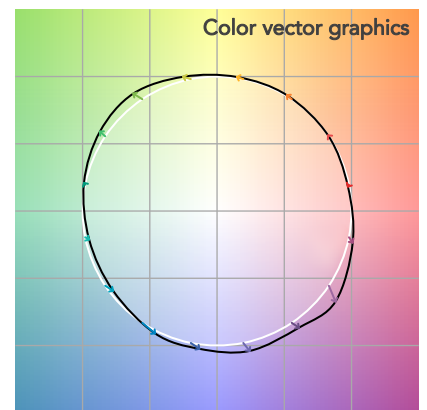
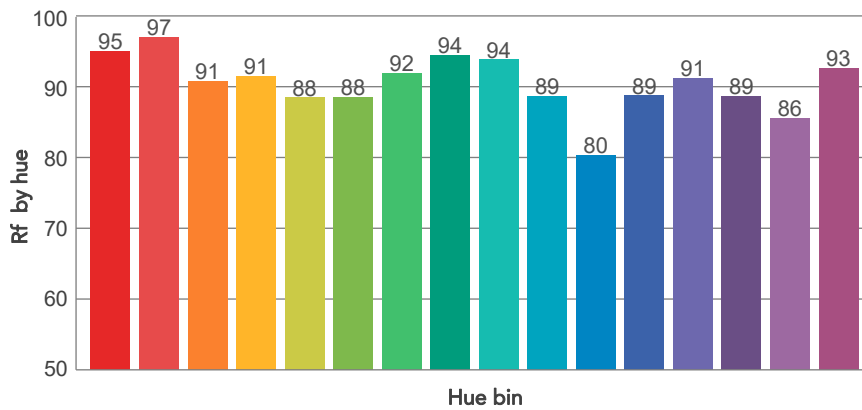
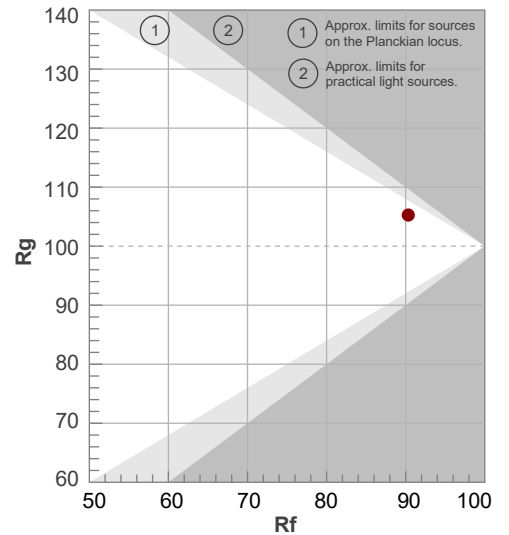
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5233 K	93,4	93,3	90,3	105,3	91,9	91	0,339	0,344	-0,0015

TM30 DETAILS

Rf 90,3
Fidelity index Rf

Rg 105,3
Gammut index

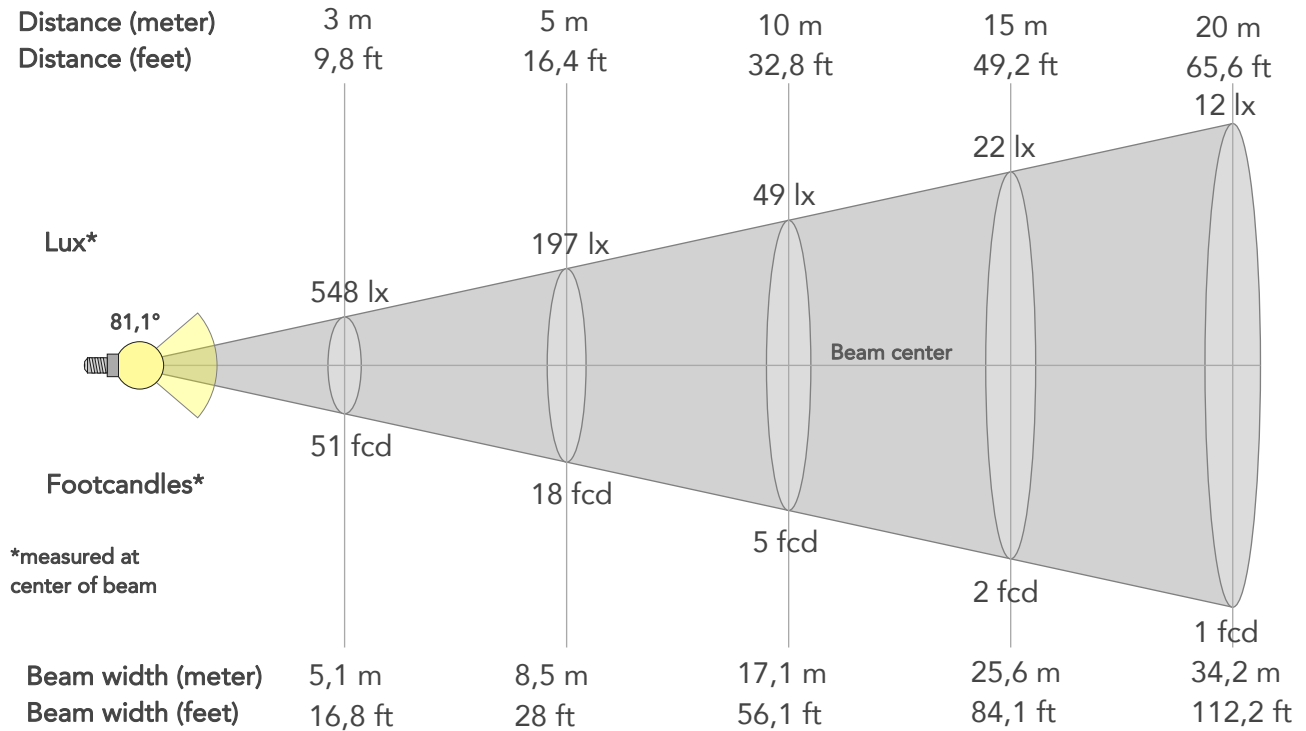
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	97	0%	1%
3	91	0%	5%
4	91	1%	5%
5	88	3%	5%
6	88	7%	3%
7	92	5%	-1%
8	94	1%	-1%
9	94	-3%	2%
10	89	-3%	6%
11	80	1%	12%
12	89	3%	7%
13	91	7%	3%
14	89	6%	2%
15	86	11%	-7%
16	93	4%	-3%



BEAM DETAILS



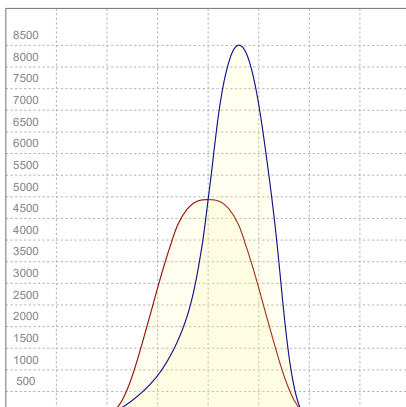
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,1°	133°	157,2°	86,1%	60,3%



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	4935lx	1234lx	548lx	308lx	197lx	88lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	458fcd	115fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,8m	8,5m	12,8m	17,1m	25,6m	34,2m	42,7m	51,3m	68,4m	85,5m
Beam wid.	5,6ft	11,3ft	16,8ft	22,4ft	28ft	42,1ft	56,1ft	84,1ft	112,2ft	140,2ft	168,2ft	224,3ft	280,4ft

LINEAR DISTRIBUTION DIAGRAM

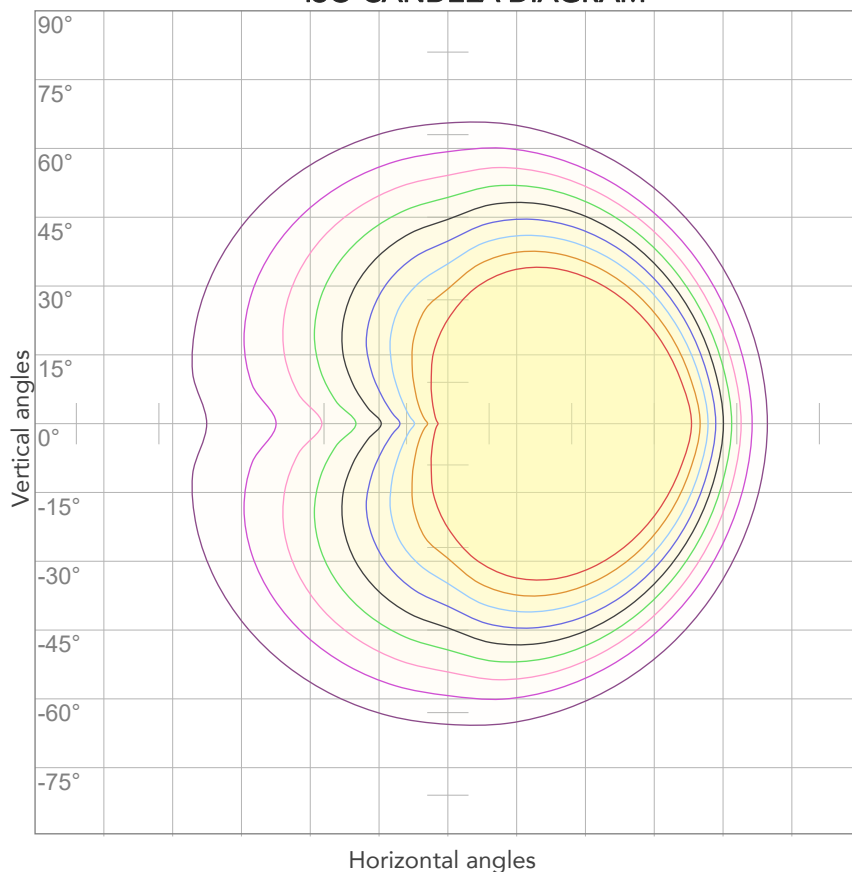


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	1,17A	253,9W	0,96	53lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



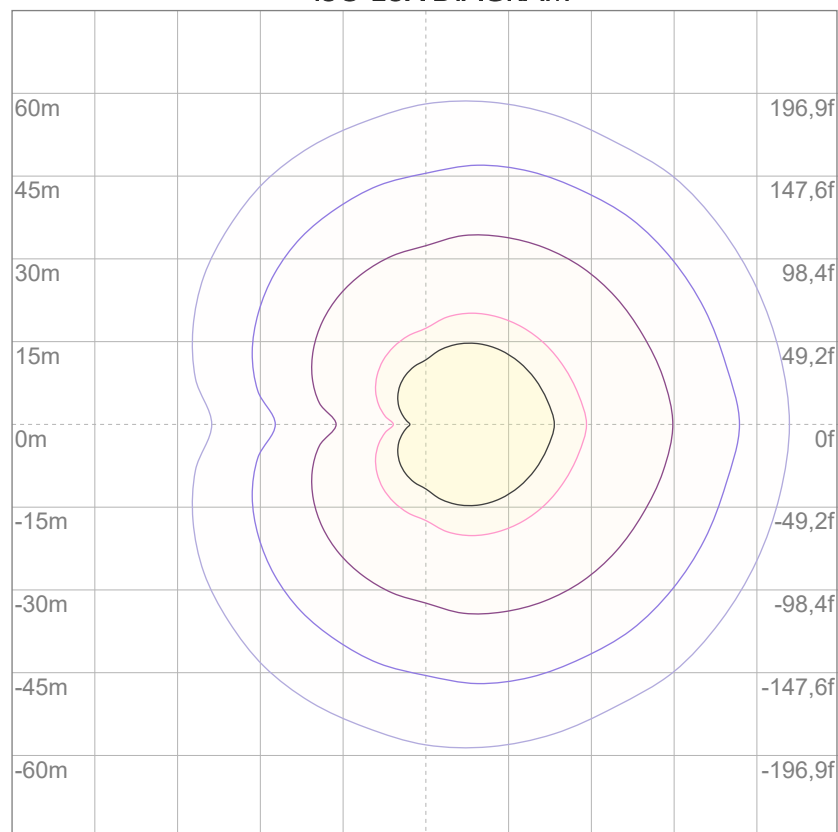
10%	493 cd
20%	987 cd
30%	1480 cd
40%	1974 cd
50%	2467 cd
60%	2961 cd
70%	3454 cd
80%	3948 cd

Conditions:

Number of c-planes: 4

Candela at center: 4935 cd

ISO LUX DIAGRAM



3%	1,48 lx
5%	2,47 lx
10%	4,93 lx
30%	14,8 lx
50%	24,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 49,3 lx

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



Total lumen output:

5021 lm

Peak candela output:

3356 cd

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

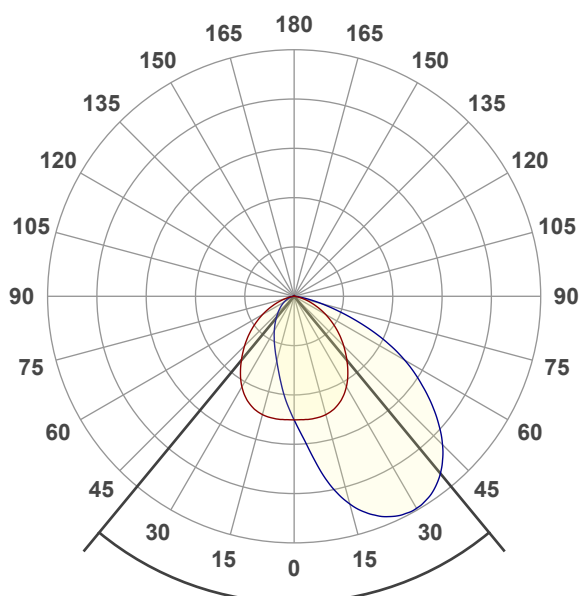
Red HQ

Operator:

Giuseppe della Peruta

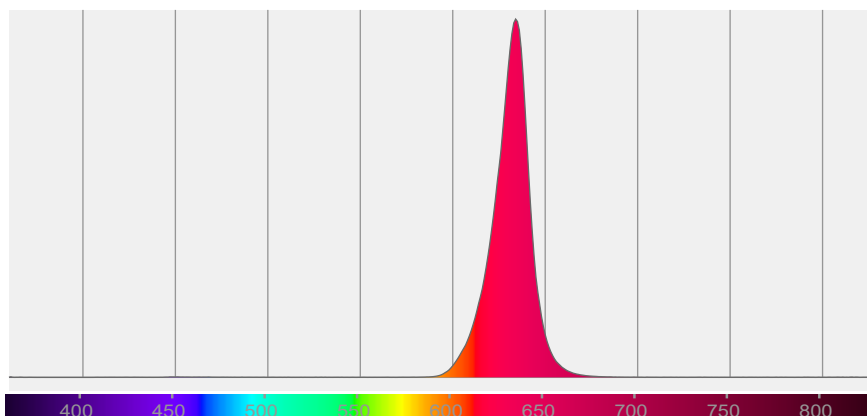
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04/09/2025 14:23:00



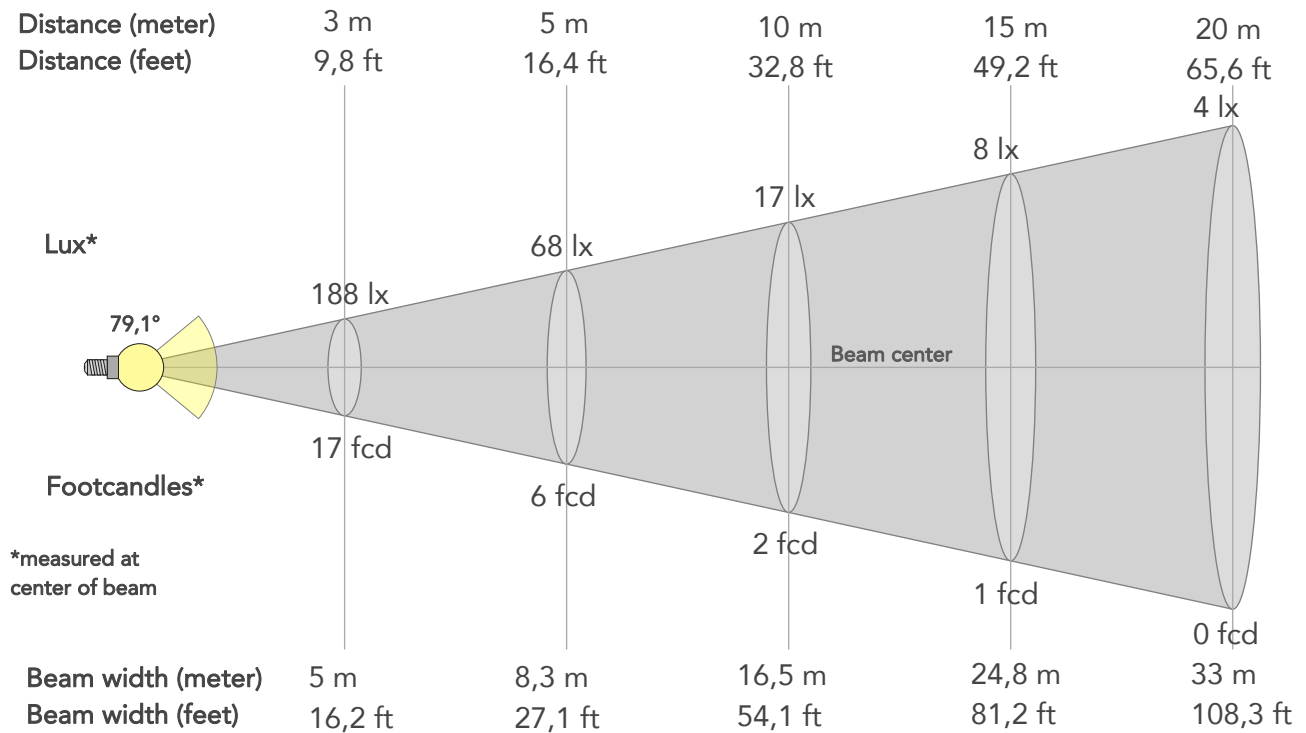
	Blue curve V	Red curve H
Beam angle 50%:	61°	97,1°
Field angle 10%:	118,9°	145,6°
Cut off angle 2.5%:	151,3°	161,7°

Spectra



BEAM DETAILS

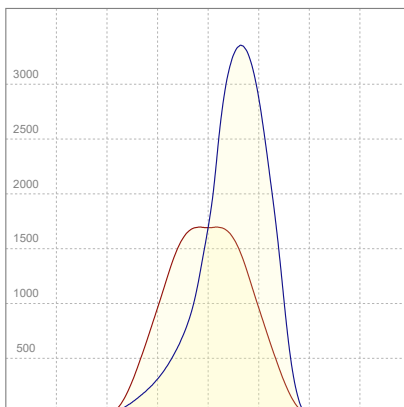
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
79,1°	132,3°	156,5°	85,0%	59,2%



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	1692lx	423lx	188lx	106lx	68lx	30lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx
Footcand.	157fcd	39fcd	17fcd	10fcd	6fcd	3fcd	2fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,3m	5m	6,6m	8,3m	12,4m	16,5m	24,8m	33m	41,3m	49,5m	66m	82,5m
Beam wid.	5,4ft	10,9ft	16,2ft	21,6ft	27,1ft	40,6ft	54,1ft	81,2ft	108,3ft	135,4ft	162,4ft	216,6ft	270,7ft

LINEAR DISTRIBUTION DIAGRAM

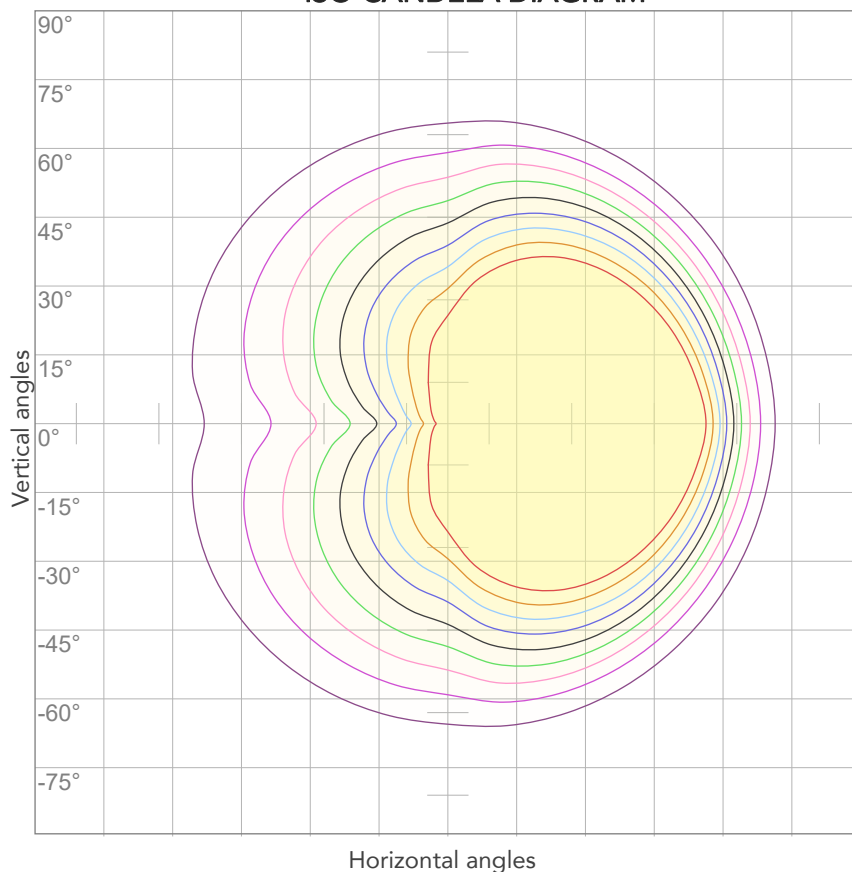


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,768A	154,8W	0,88	32lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



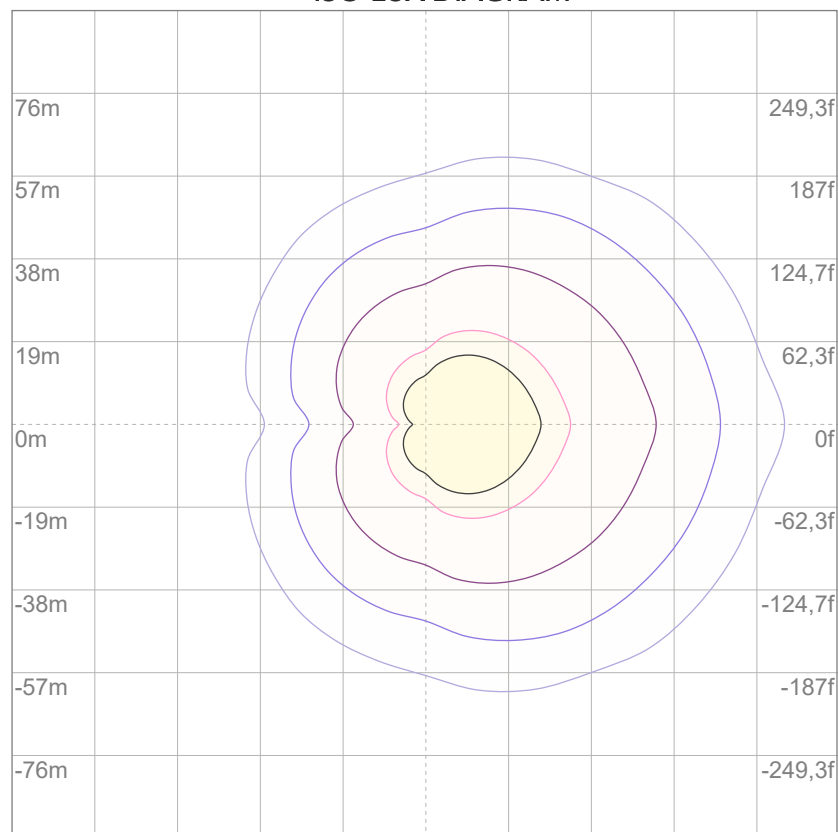
10%	169 cd
20%	338 cd
30%	508 cd
40%	677 cd
50%	846 cd
60%	1015 cd
70%	1184 cd
80%	1354 cd

Conditions:

Number of c-planes: 4

Candela at center: 1692 cd

ISO LUX DIAGRAM



3%	0,508 lx
5%	0,846 lx
10%	1,69 lx
30%	5,08 lx
50%	8,46 lx

Conditions:

Number of c-planes: 4

Lux at center: 16,9 lx

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



Total lumen output:

8467 lm

Peak candela output:

5584 cd

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

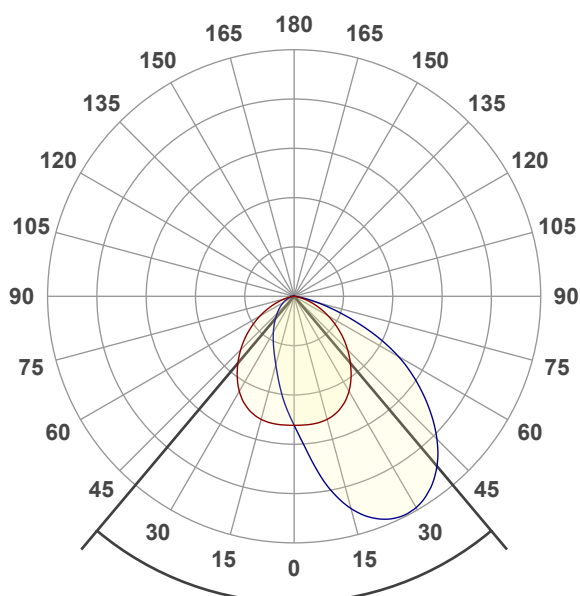
Green HQ

Operator:

Giuseppe della Peruta

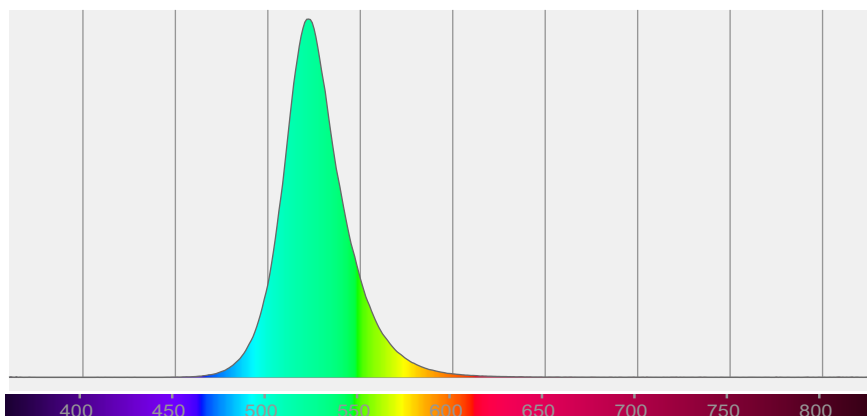
Date and time:

04/09/2025 14:27:08



	Blue curve V	Red curve H
Beam angle 50%:	61,1°	99,1°
Field angle 10%:	119,4°	146,4°
Cut off angle 2.5%:	152°	162,3°

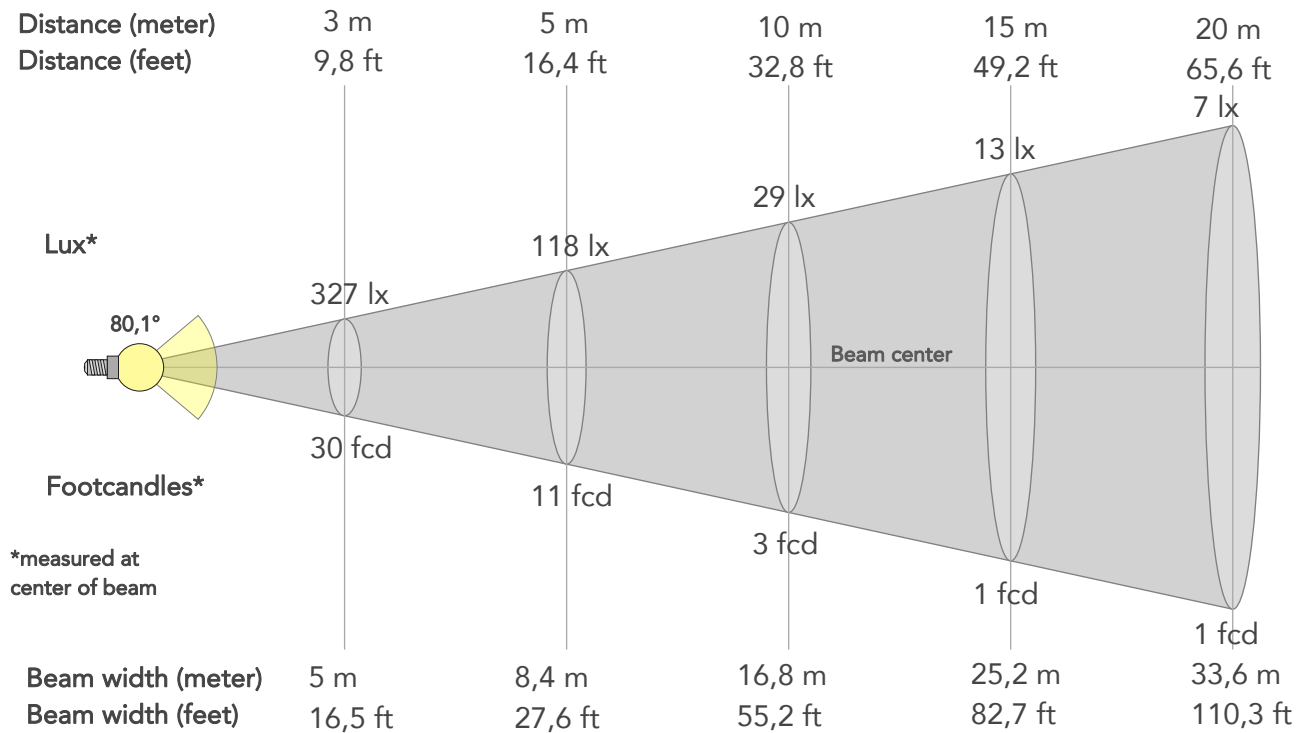
Spectra



BEAM DETAILS



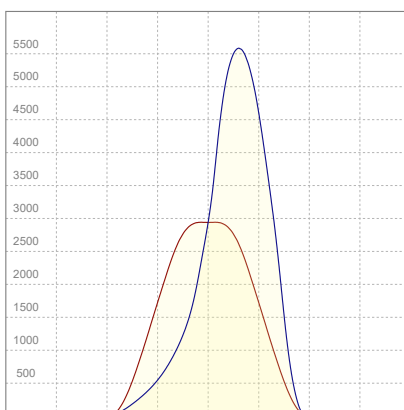
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
80,1°	132,9°	157,2°	85,5%	59,9%



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	2940lx	735lx	327lx	184lx	118lx	52lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	273fcd	68fcd	30fcd	17fcd	11fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5m	6,7m	8,4m	12,6m	16,8m	25,2m	33,6m	42m	50,4m	67,3m	84,1m
Beam wid.	5,5ft	11,1ft	16,5ft	22ft	27,6ft	41,4ft	55,2ft	82,7ft	110,3ft	137,9ft	165,5ft	220,6ft	275,8ft

LINEAR DISTRIBUTION DIAGRAM

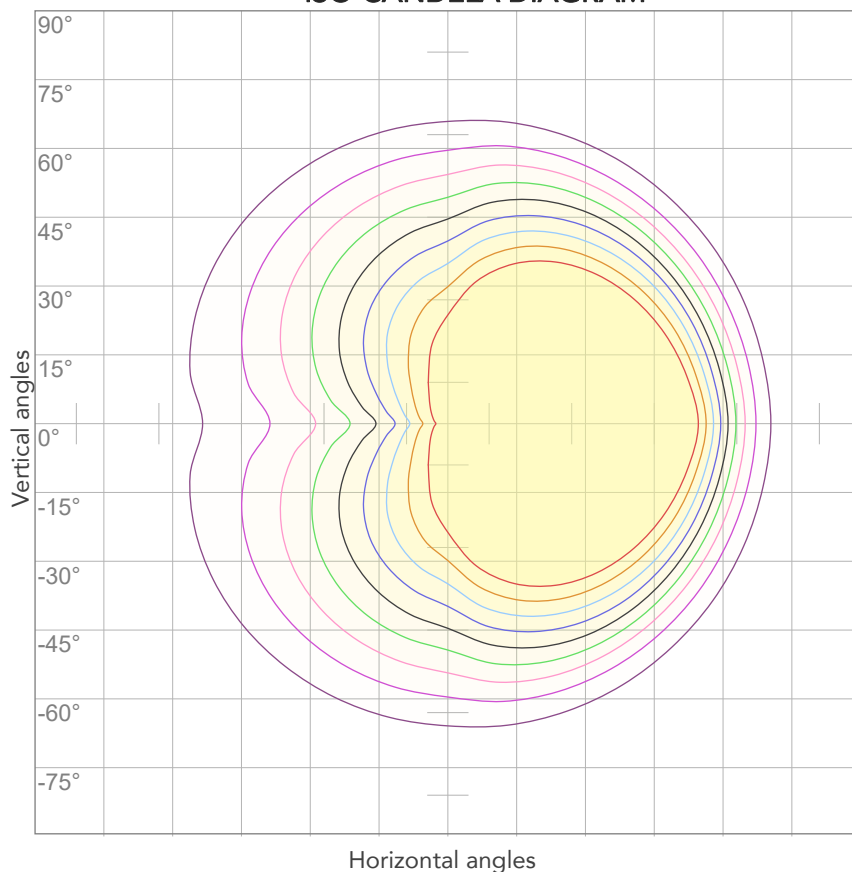


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,850A	170,3W	0,88	50lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



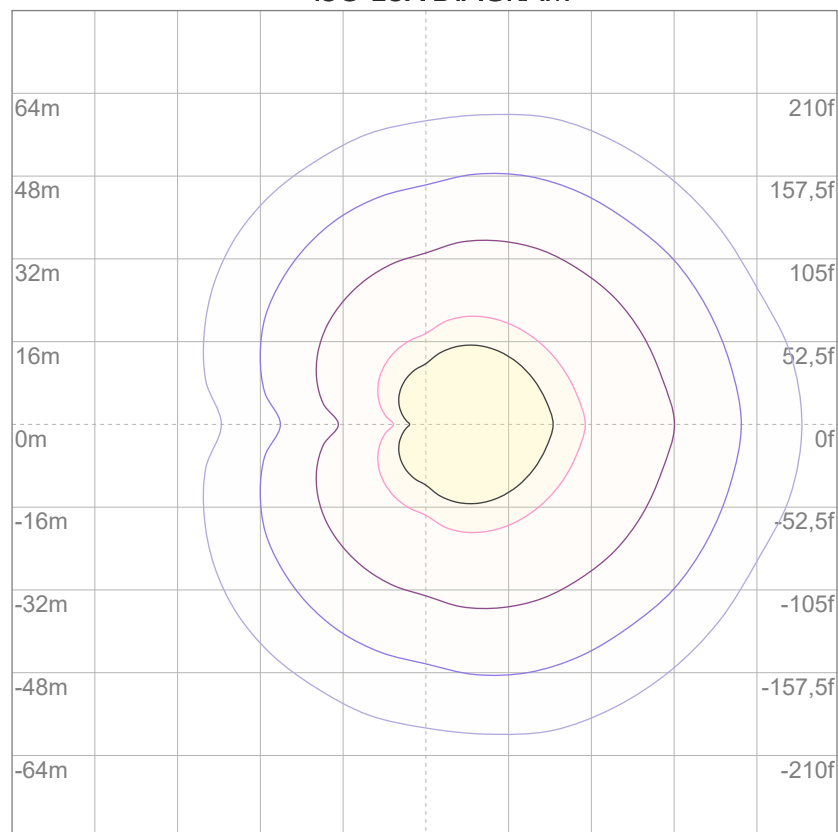
10%	294 cd
20%	588 cd
30%	882 cd
40%	1176 cd
50%	1470 cd
60%	1764 cd
70%	2058 cd
80%	2352 cd

Conditions:

Number of c-planes: 4

Candela at center: 2940 cd

ISO LUX DIAGRAM



3%	0,882 lx
5%	1,47 lx
10%	2,94 lx
30%	8,82 lx
50%	14,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 29,4 lx

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



Total lumen output:

1889 lm

Peak candela output:

1218 cd

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

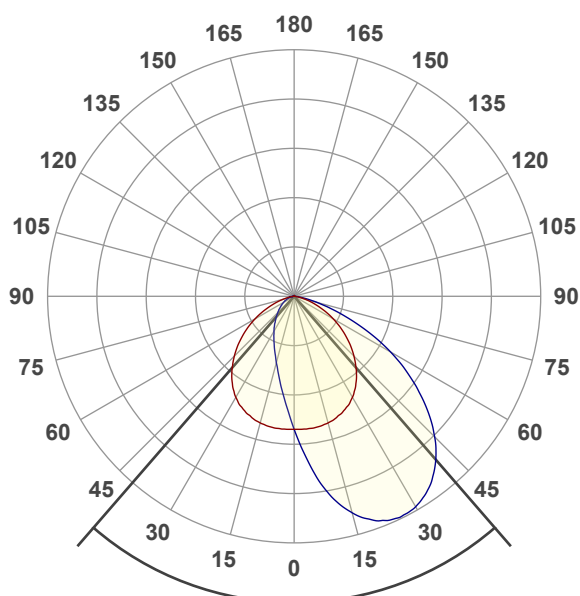
Blue HQ

Operator:

Giuseppe della Peruta

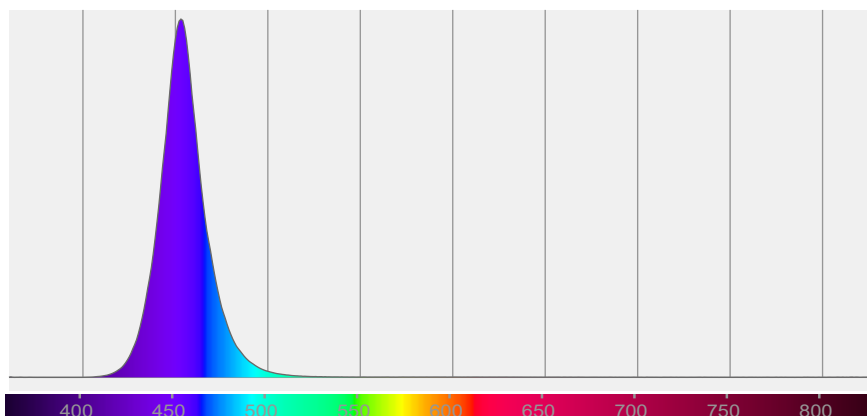
Date and time:

04/09/2025 14:31:00



	Blue curve V	Red curve H
Beam angle 50%:	60°	103,7°
Field angle 10%:	118,4°	147,7°
Cut off angle 2.5%:	152,7°	163,4°

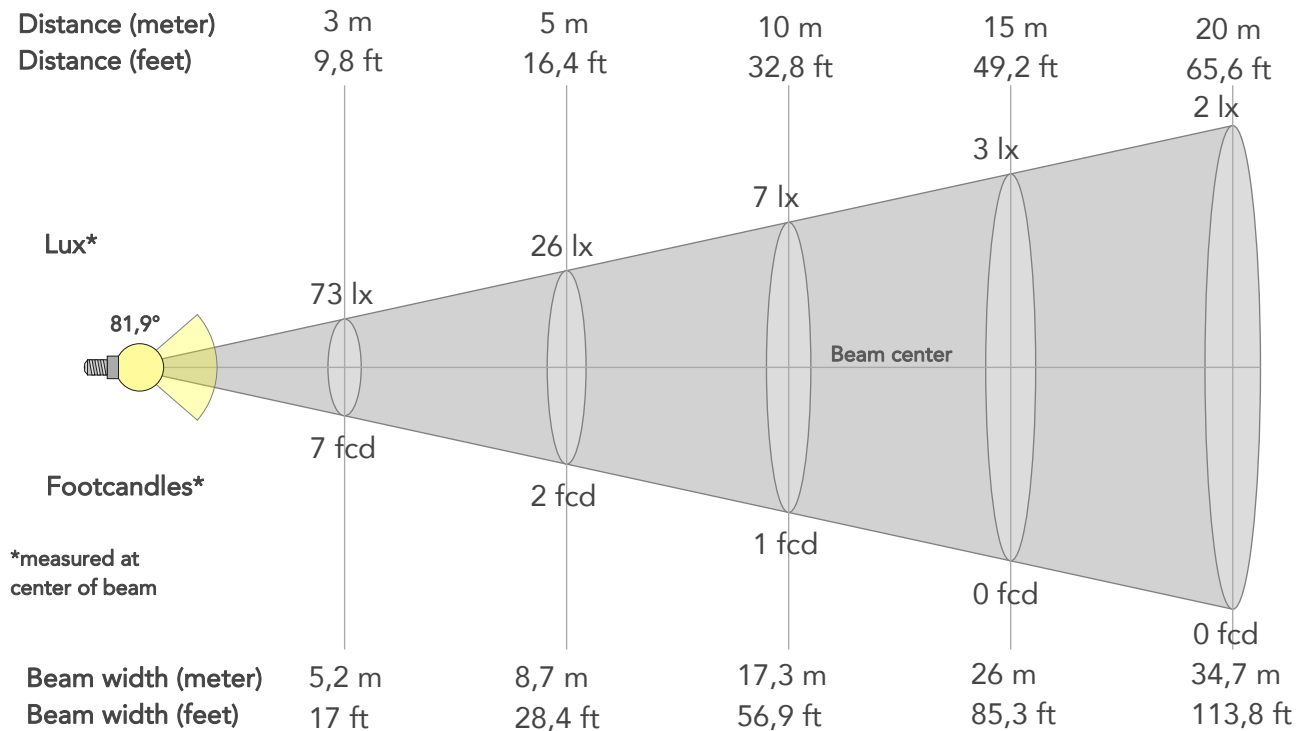
Spectra



BEAM DETAILS



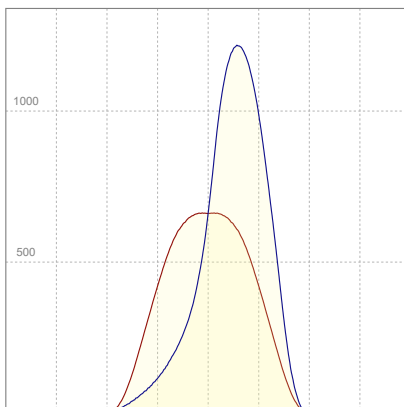
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,9°	133°	158°	85,9%	60,1%



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	661lx	165lx	73lx	41lx	26lx	12lx	7lx	3lx	2lx	1lx	1lx	0lx	0lx
Footcand.	61fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,5m	5,2m	6,9m	8,7m	13m	17,3m	26m	34,7m	43,4m	52m	69,4m	86,7m
Beam wid.	5,7ft	11,4ft	17ft	22,7ft	28,4ft	42,7ft	56,9ft	85,3ft	113,8ft	142,2ft	170,6ft	227,5ft	284,4ft

LINEAR DISTRIBUTION DIAGRAM

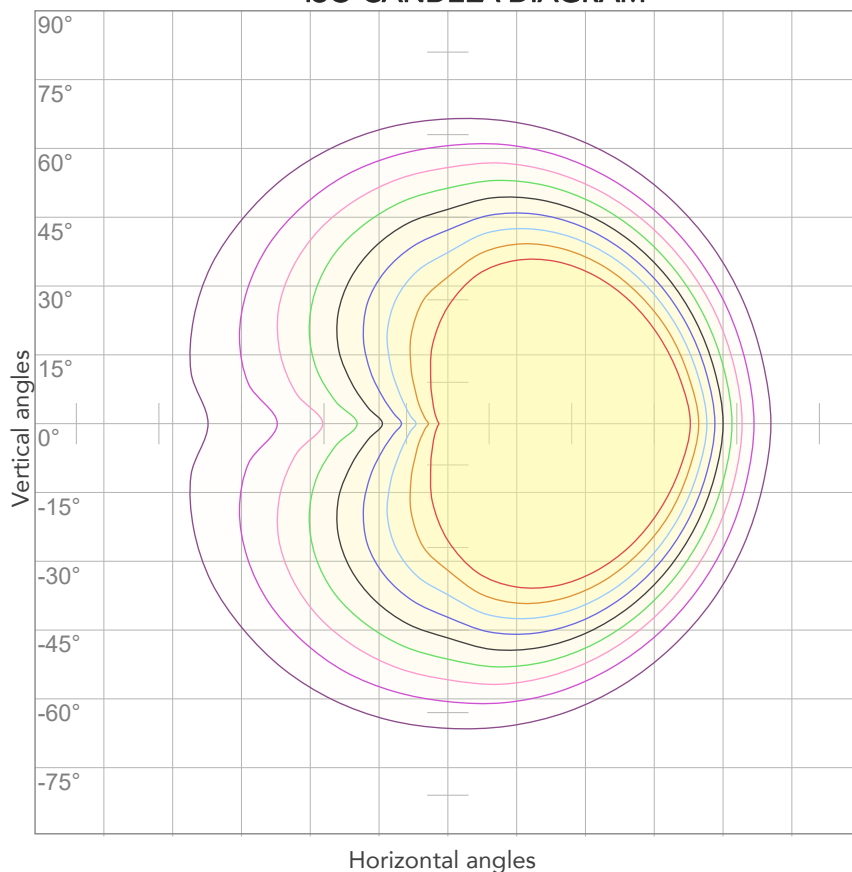


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,846A	170W	0,88	11lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



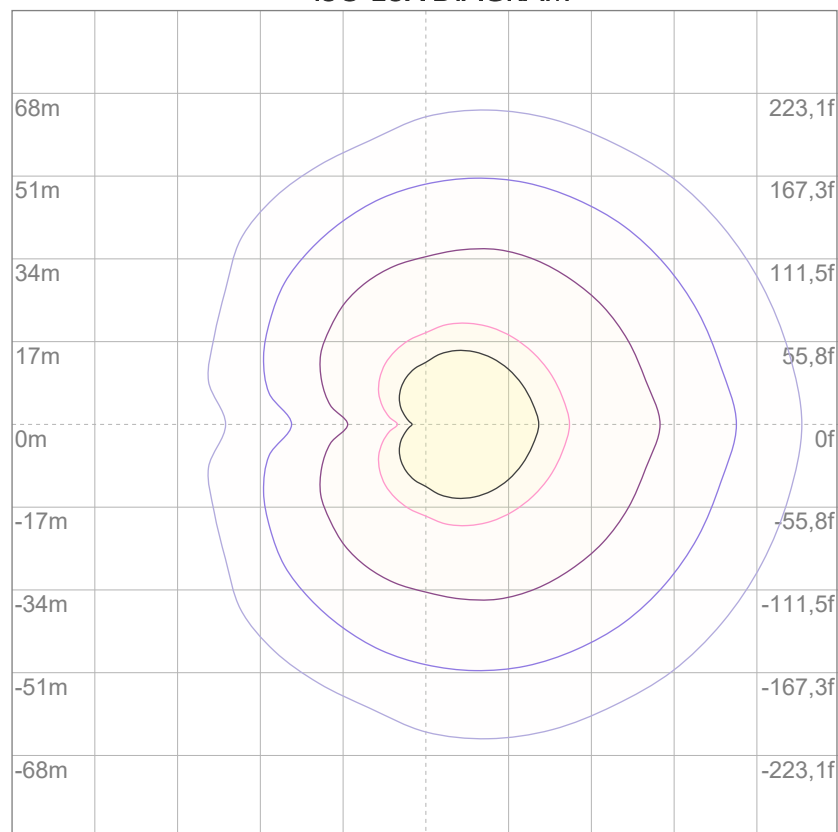
10%	66 cd
20%	132 cd
30%	198 cd
40%	264 cd
50%	331 cd
60%	397 cd
70%	463 cd
80%	529 cd

Conditions:

Number of c-planes: 4

Candela at center: 661 cd

ISO LUX DIAGRAM



3%	0,198 lx
5%	0,331 lx
10%	0,661 lx
30%	1,98 lx
50%	3,31 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,61 lx

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



Total lumen output:

10595 lm

Peak candela output:

6529 cd

Light quality:

CRI: 82,2

Color temperature:

3136 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

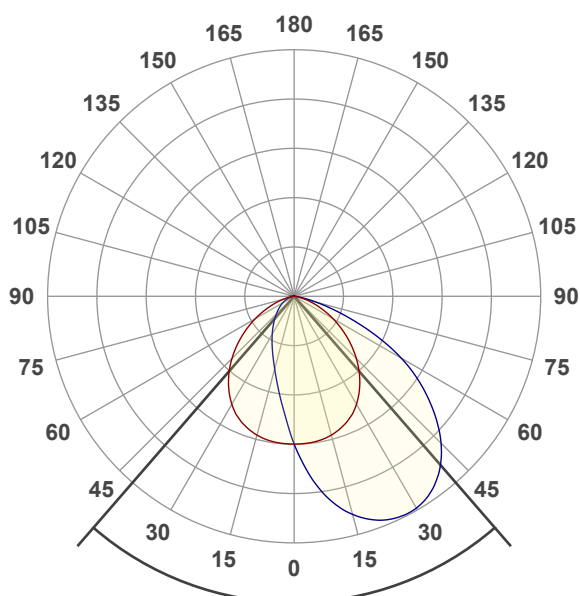
White HQ

Operator:

Giuseppe della Peruta

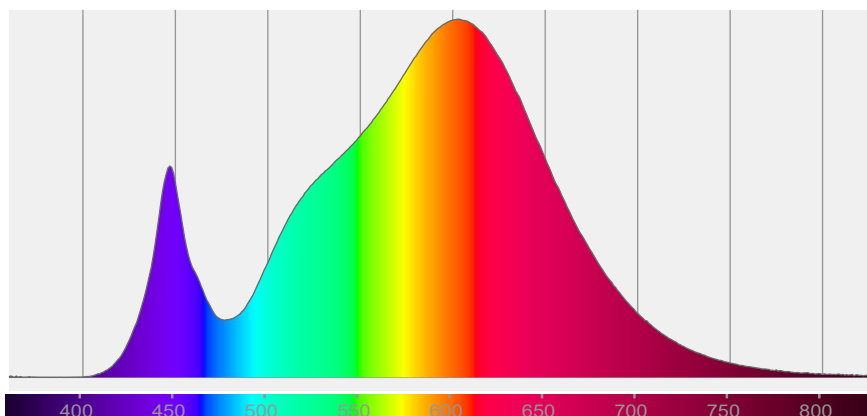
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04/09/2025 14:35:18

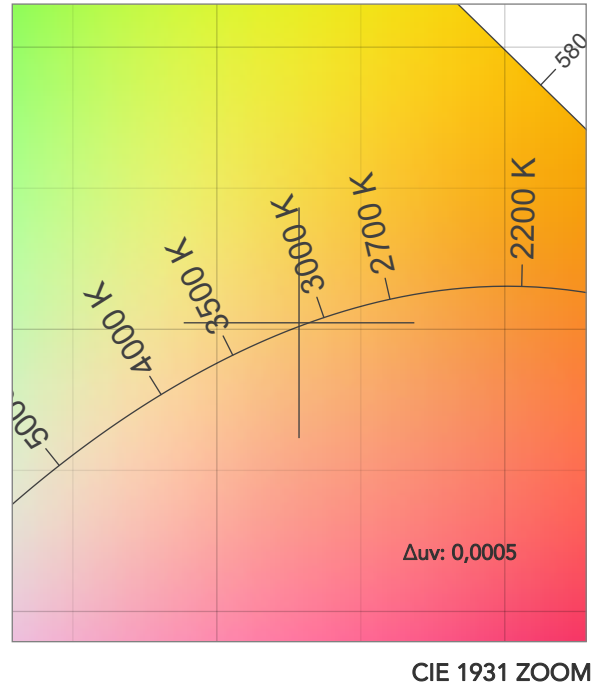
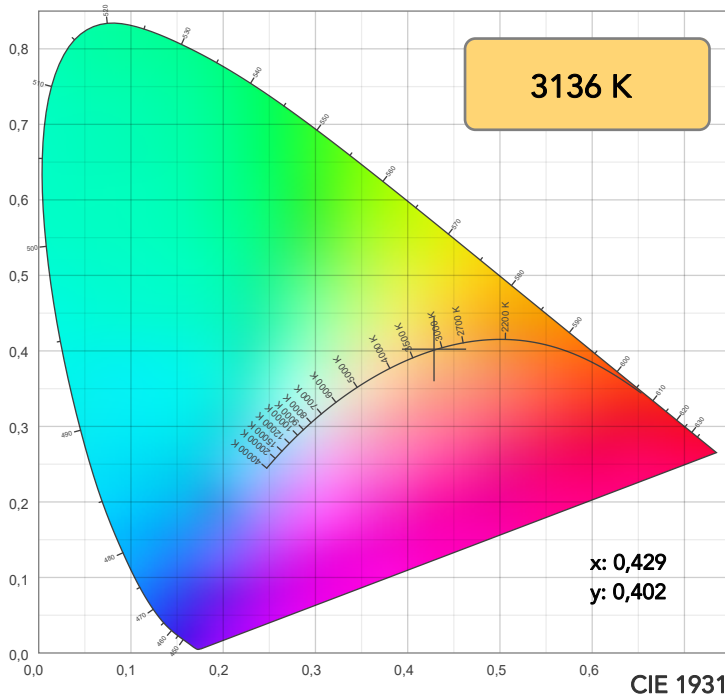


	Blue curve V	Red curve H
Beam angle 50%:	64°	99,7°
Field angle 10%:	120,5°	145,6°
Cut off angle 2.5%:	152,3°	162°

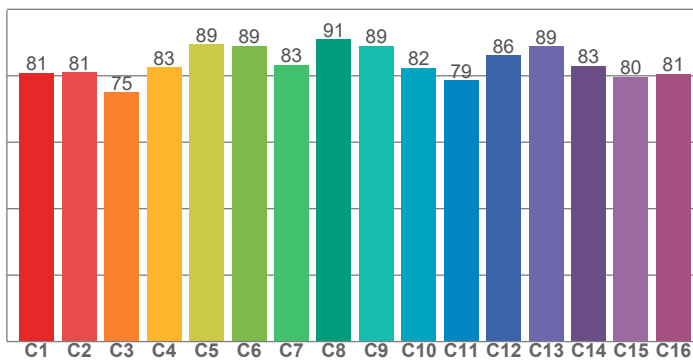
Spectra



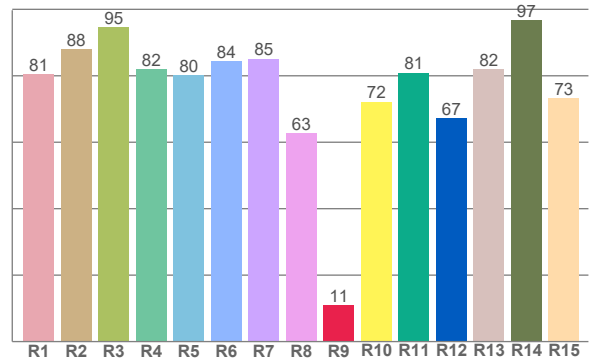
COLOR DETAILS



TM30: 83,6



CRI: 82,2 (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
80,5	88,0	94,7	81,9	80,1	84,5	85,1	62,7	10,8	72,2	80,9	67,1	81,9	96,7	73,4

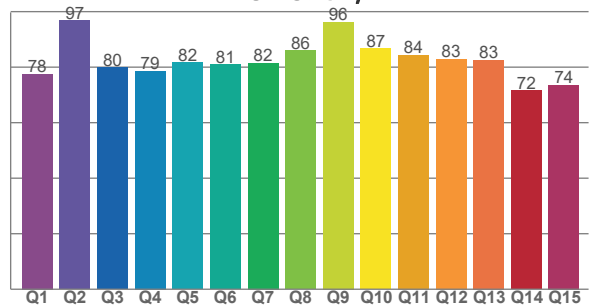
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,9	81,1	75,1	82,6	89,4	89,1	83,4	91,0	89,0	82,4	78,7	86,2	88,8	83,0	79,7	80,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77,5	96,9	80,0	78,7	81,6	80,9	81,6	86,0	96,3	86,6	84,3	82,9	82,6	71,6	73,5

CQS: 81,4



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
3136 K	82,2	10,8	83,6	98,3	81,4	67	0,429	0,402	0,0005

TM30 DETAILS

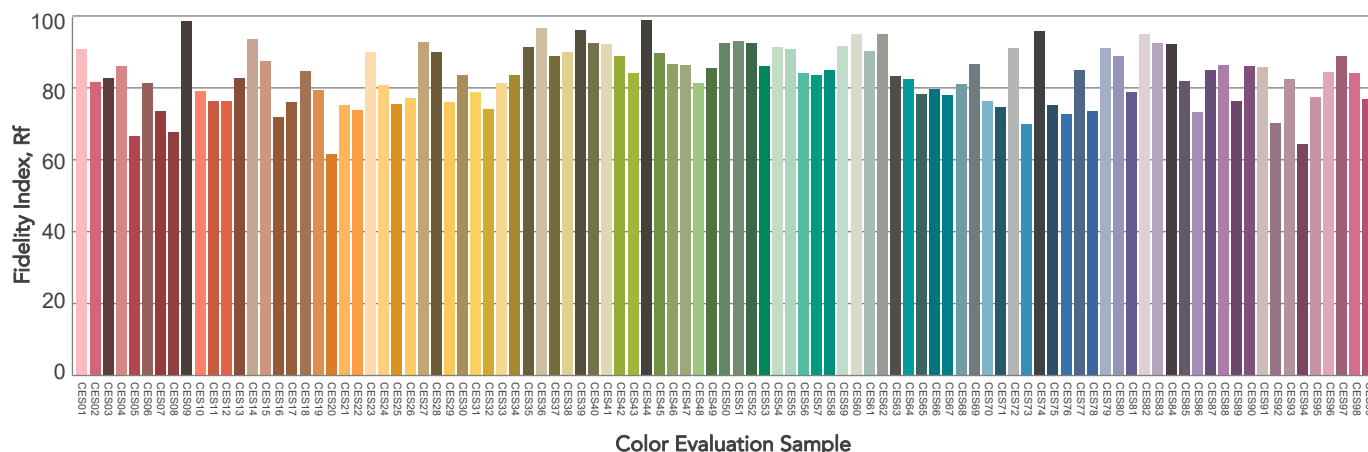
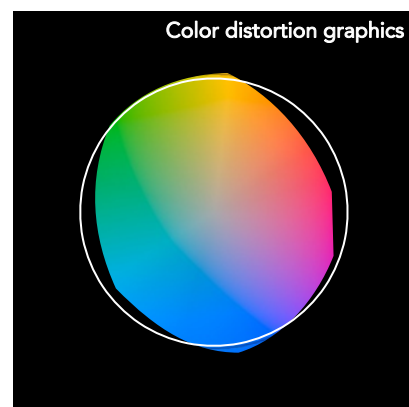
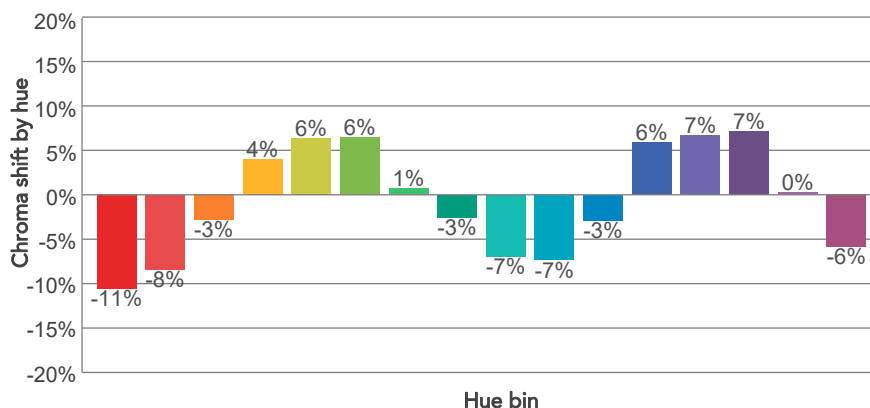
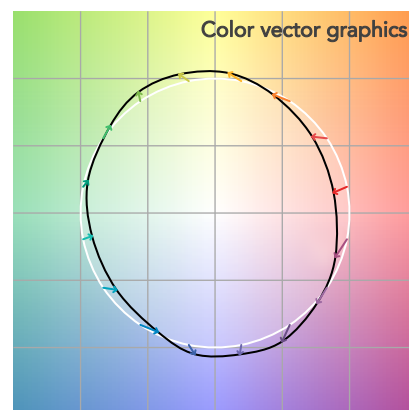
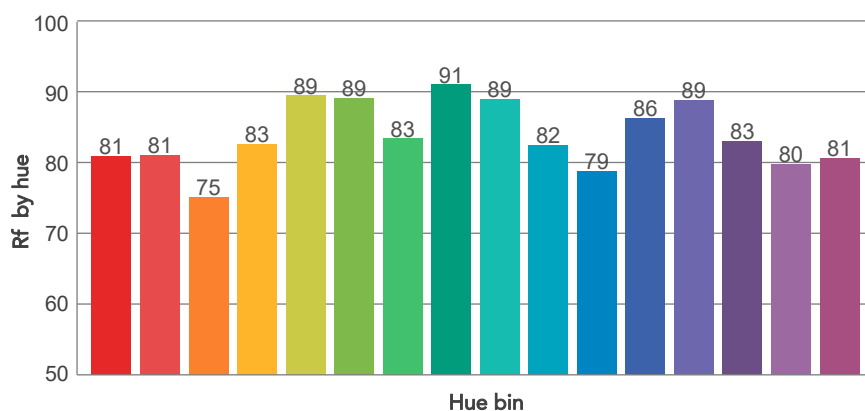
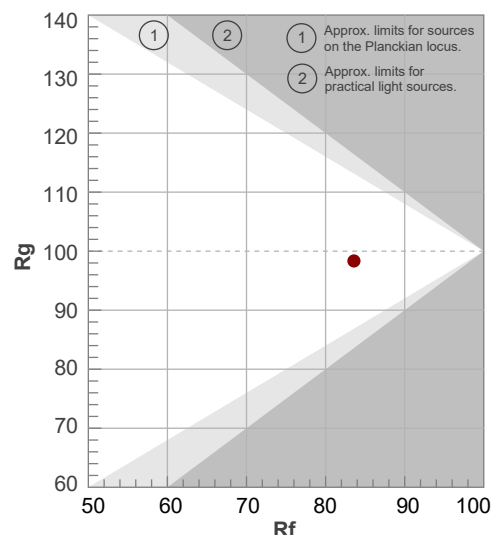
Rf 83,6

Fidelity index Rf

Rg 98,3

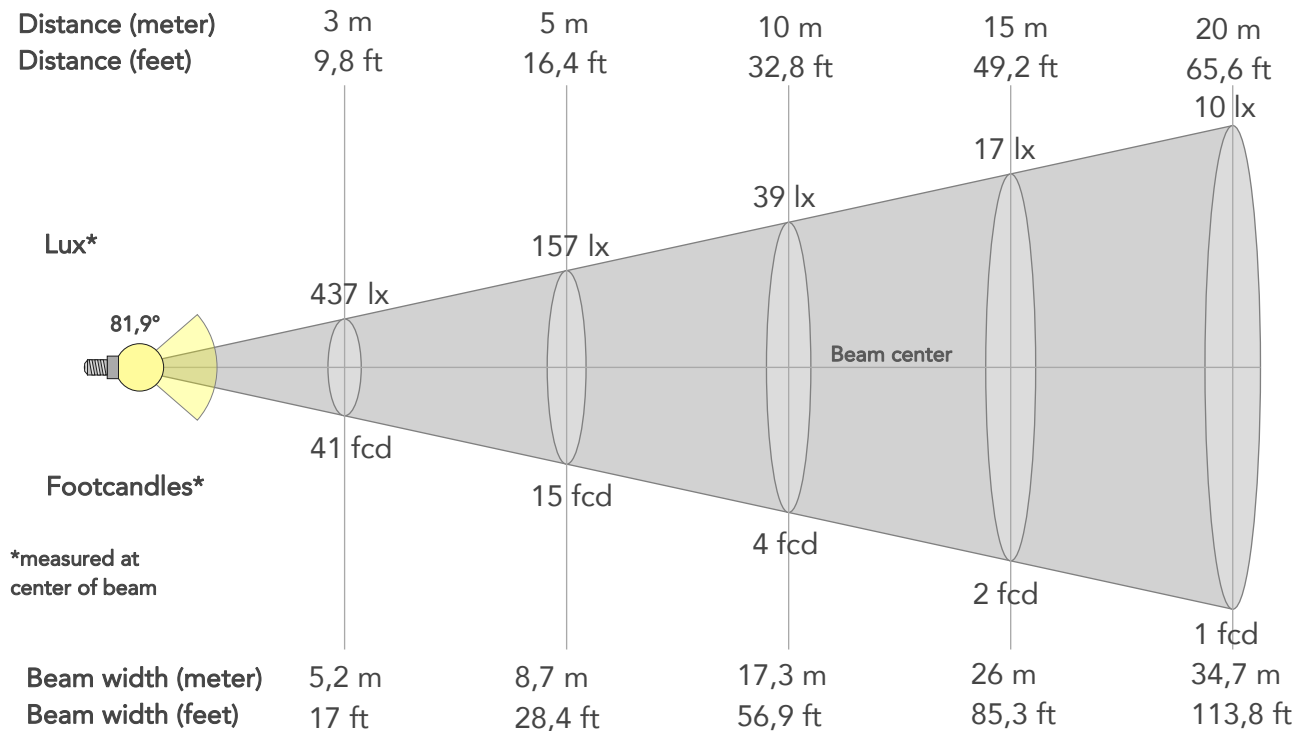
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	81	-11%	-2%
2	81	-8%	7%
3	75	-3%	13%
4	83	4%	10%
5	89	6%	6%
6	89	6%	-3%
7	83	1%	-10%
8	91	-3%	-5%
9	89	-7%	-1%
10	82	-7%	7%
11	79	-3%	14%
12	86	6%	6%
13	89	7%	-2%
14	83	7%	-12%
15	80	0%	-13%
16	81	-6%	-15%



BEAM DETAILS

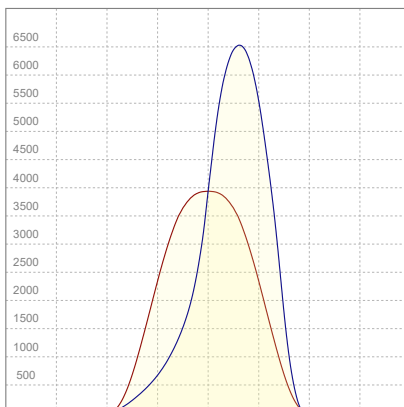
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,9°	133,1°	157,1°	86,1%	60,2%



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	3937lx	984lx	437lx	246lx	157lx	70lx	39lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	366fcd	91fcd	41fcd	23fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,5m	5,2m	6,9m	8,7m	13m	17,3m	26m	34,7m	43,4m	52m	69,4m	86,7m
Beam wid.	5,7ft	11,4ft	17ft	22,7ft	28,4ft	42,7ft	56,9ft	85,3ft	113,8ft	142,2ft	170,7ft	227,6ft	284,5ft

LINEAR DISTRIBUTION DIAGRAM

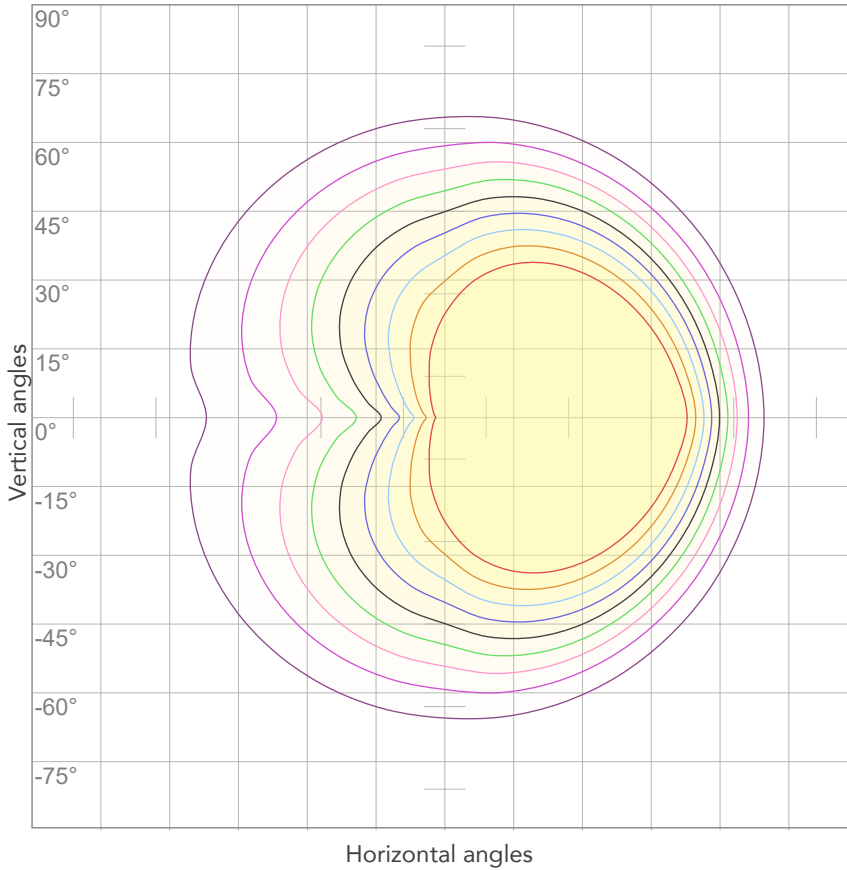


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,851A	171,6W	0,88	62lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



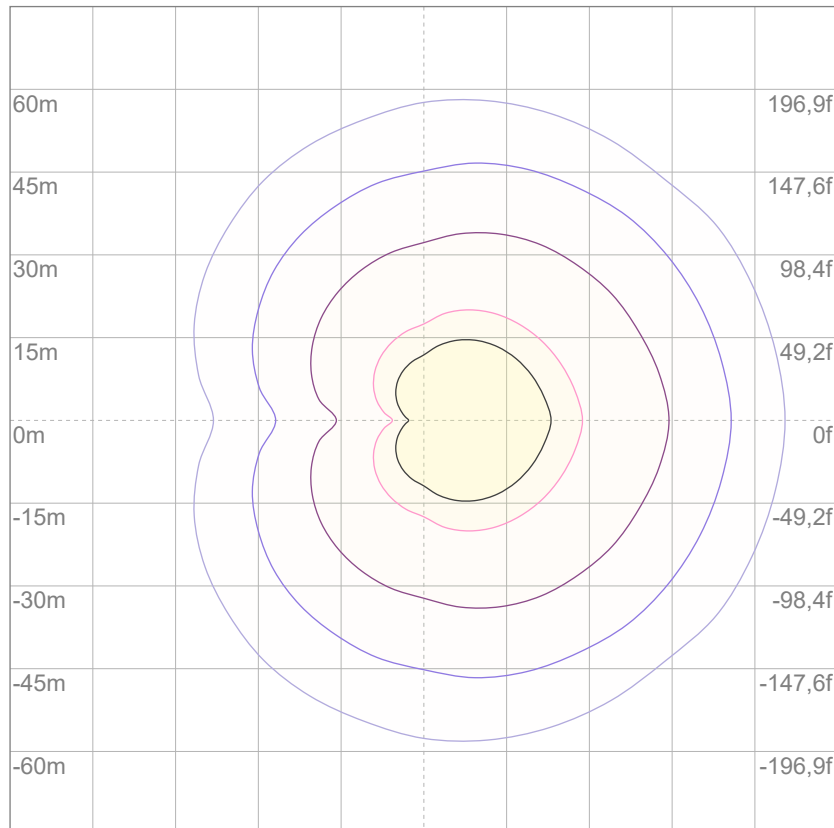
10%	394 cd
20%	787 cd
30%	1181 cd
40%	1575 cd
50%	1969 cd
60%	2362 cd
70%	2756 cd
80%	3150 cd

Conditions:

Number of c-planes: 4

Candela at center: 3937 cd

ISO LUX DIAGRAM



3%	1,18 lx
5%	1,97 lx
10%	3,94 lx
30%	11,8 lx
50%	19,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 39,4 lx

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



Total lumen output:

11979 lm

Peak candela output:

7553 cd

Light quality:

CRI: 90,6

Color temperature:

2865 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

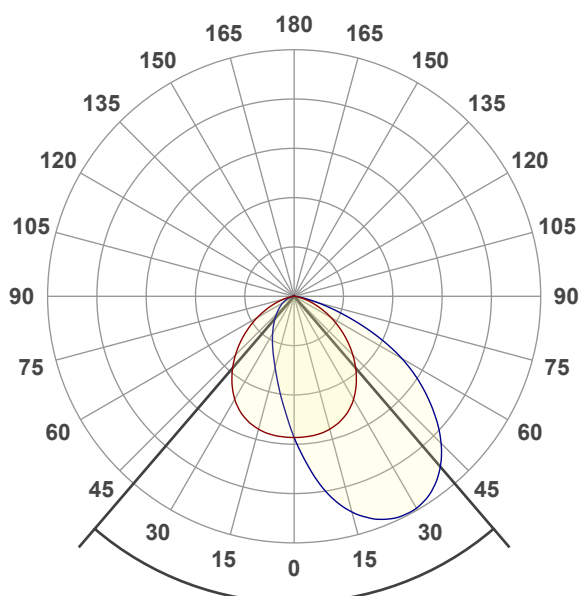
2800K HQ

Operator:

Giuseppe della Peruta

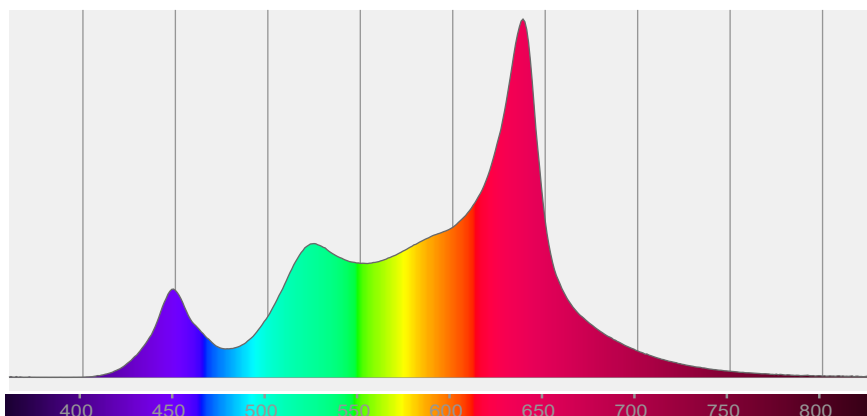
Date and time:

04/09/2025 13:40:57

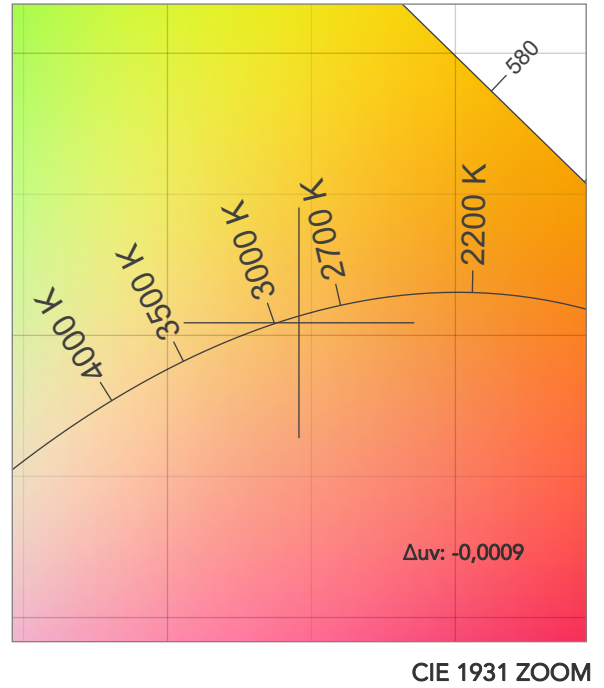
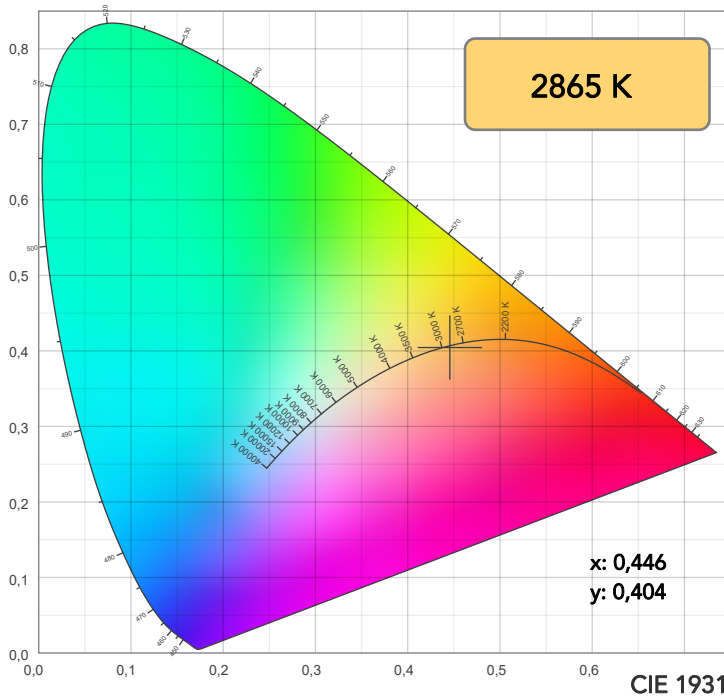


	Blue curve V	Red curve H
Beam angle 50%:	63,4°	99,1°
Field angle 10%:	120,3°	145,6°
Cut off angle 2.5%:	152,1°	162°

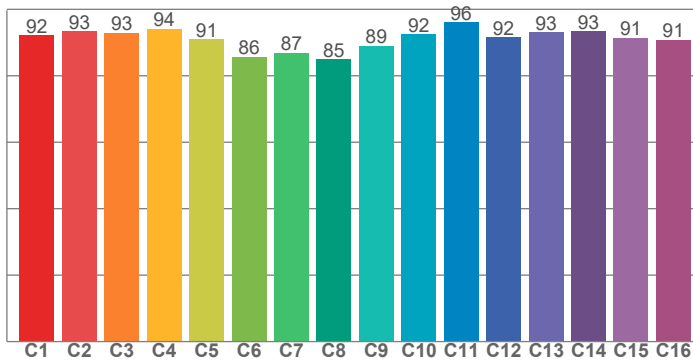
Spectra



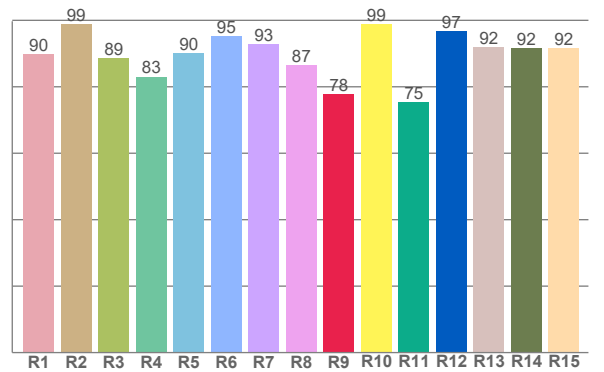
COLOR DETAILS



TM30: 91,7



CRI: 90,6 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
89,8	98,7	88,6	83,0	90,0	95,1	92,9	86,5	77,9	98,7	75,5	96,7	91,9	91,7	91,7

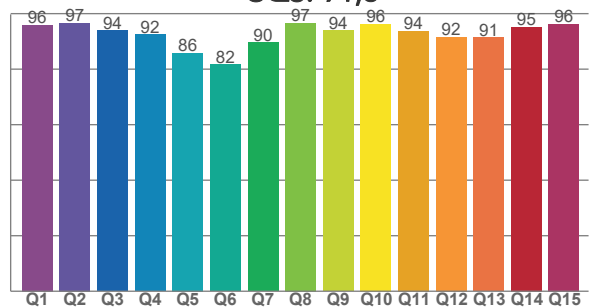
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,1	93,4	93,0	94,1	91,0	85,7	86,9	85,0	89,0	92,4	96,1	91,7	93,0	93,3	91,4	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	96,6	93,8	92,5	85,7	81,6	89,5	96,6	93,9	96,2	93,8	91,5	91,4	95,2	96,2

CQS: 91,3



COLOR PARAMETERS

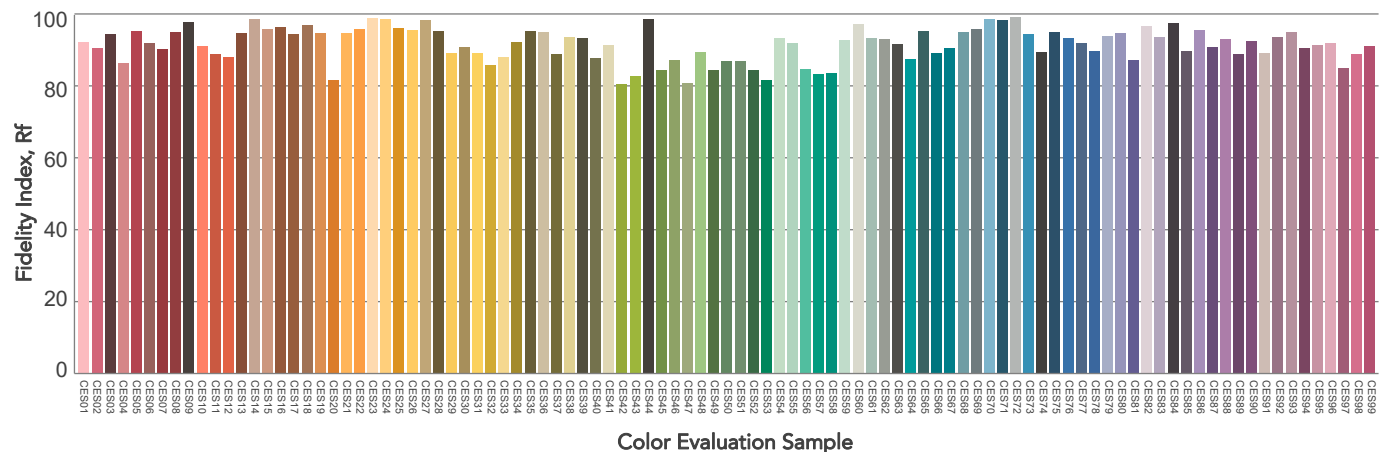
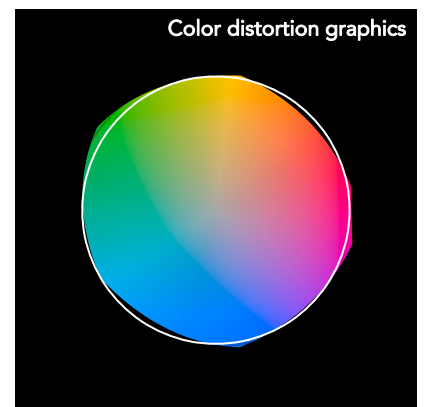
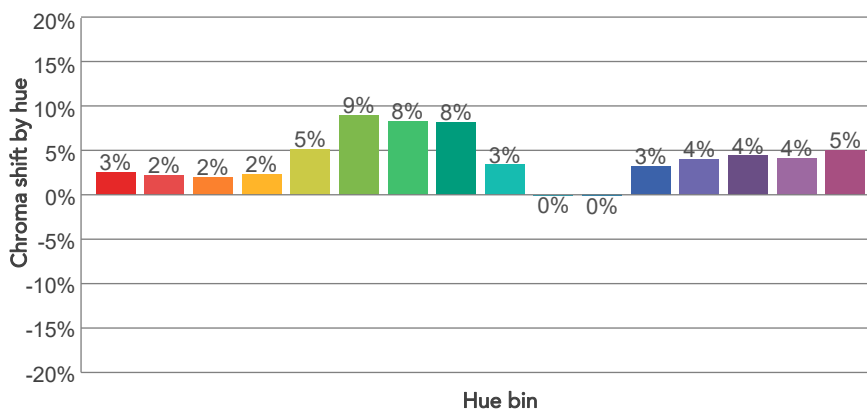
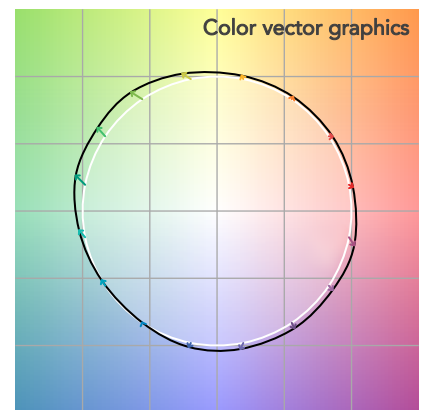
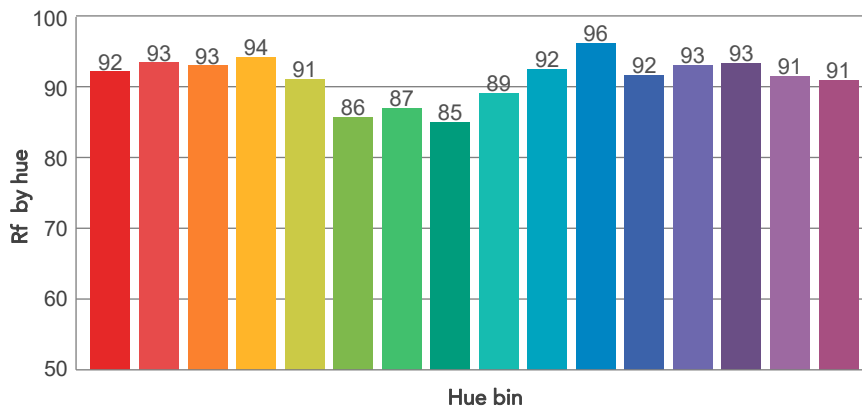
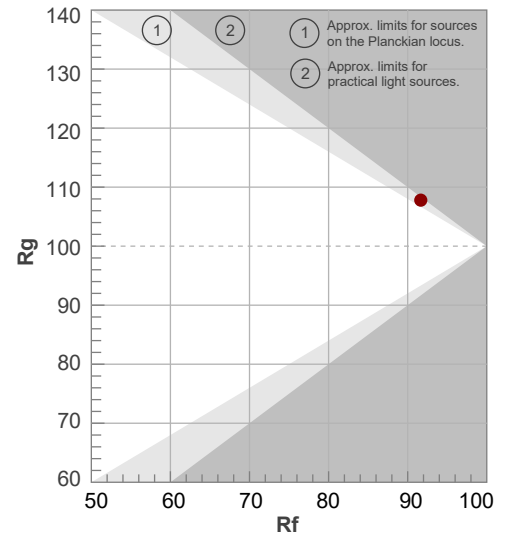
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2865 K	90,6	77,9	91,7	107,8	91,3	84	0,446	0,404	-0,0009

TM30 DETAILS

Rf 91,7
Fidelity index Rf

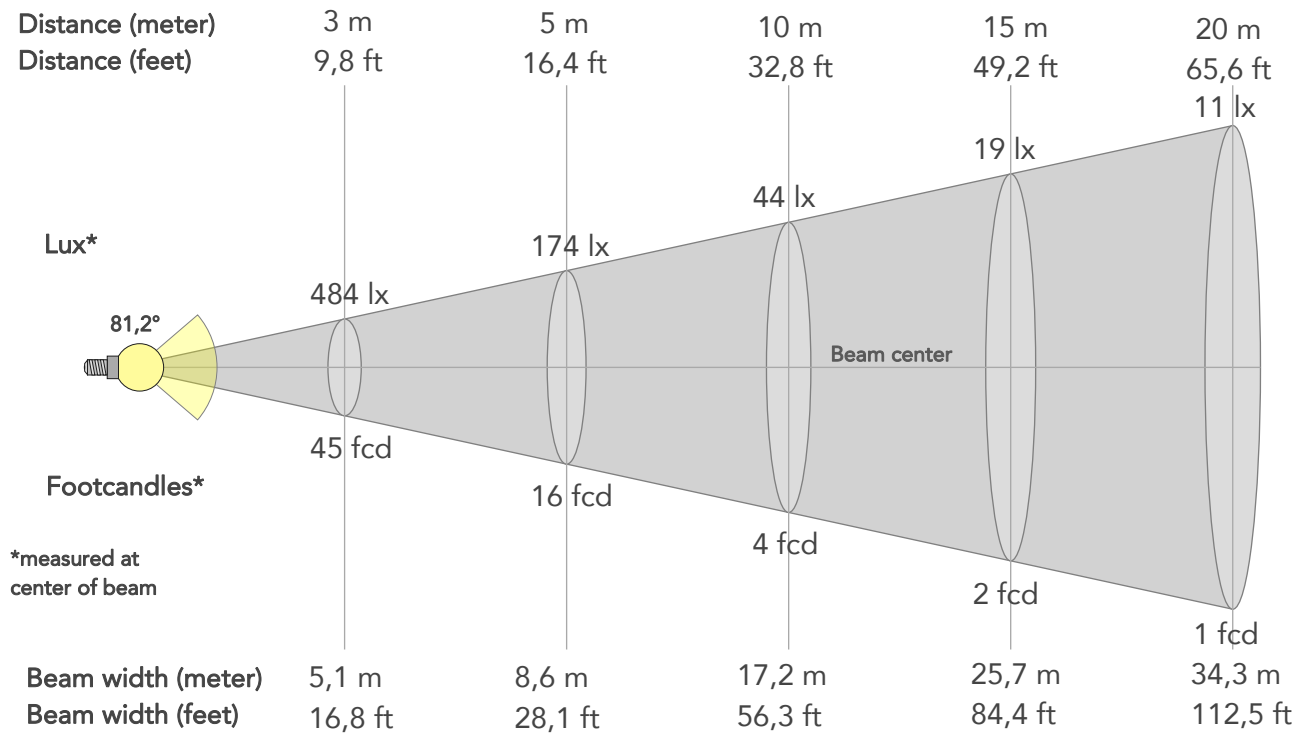
Rg 107,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	3%	-2%
2	93	2%	-2%
3	93	2%	0%
4	94	2%	2%
5	91	5%	5%
6	86	9%	4%
7	87	8%	-2%
8	85	8%	-5%
9	89	3%	-6%
10	92	0%	-5%
11	96	0%	0%
12	92	3%	-1%
13	93	4%	-3%
14	93	4%	-1%
15	91	4%	-1%
16	91	5%	-5%



BEAM DETAILS

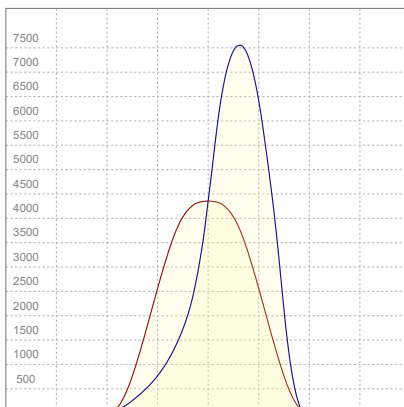
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,2°	133°	157,1°	85,9%	60,0%



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	4352lx	1088lx	484lx	272lx	174lx	77lx	44lx	19lx	11lx	7lx	5lx	3lx	2lx
Footcand.	404fcd	101fcd	45fcd	25fcd	16fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,9m	8,6m	12,9m	17,2m	25,7m	34,3m	42,9m	51,5m	68,6m	85,8m
Beam wid.	5,7ft	11,3ft	16,8ft	22,5ft	28,1ft	42,2ft	56,3ft	84,4ft	112,5ft	140,7ft	168,8ft	225,1ft	281,4ft

LINEAR DISTRIBUTION DIAGRAM

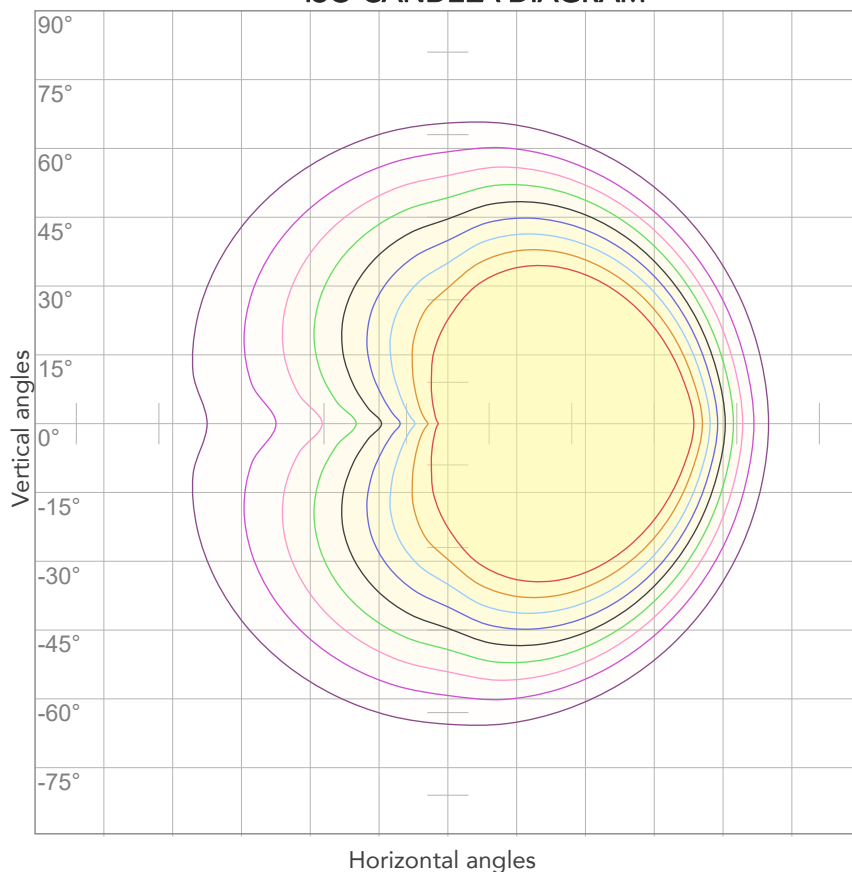


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,200A	9,3W	0,2	1283lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



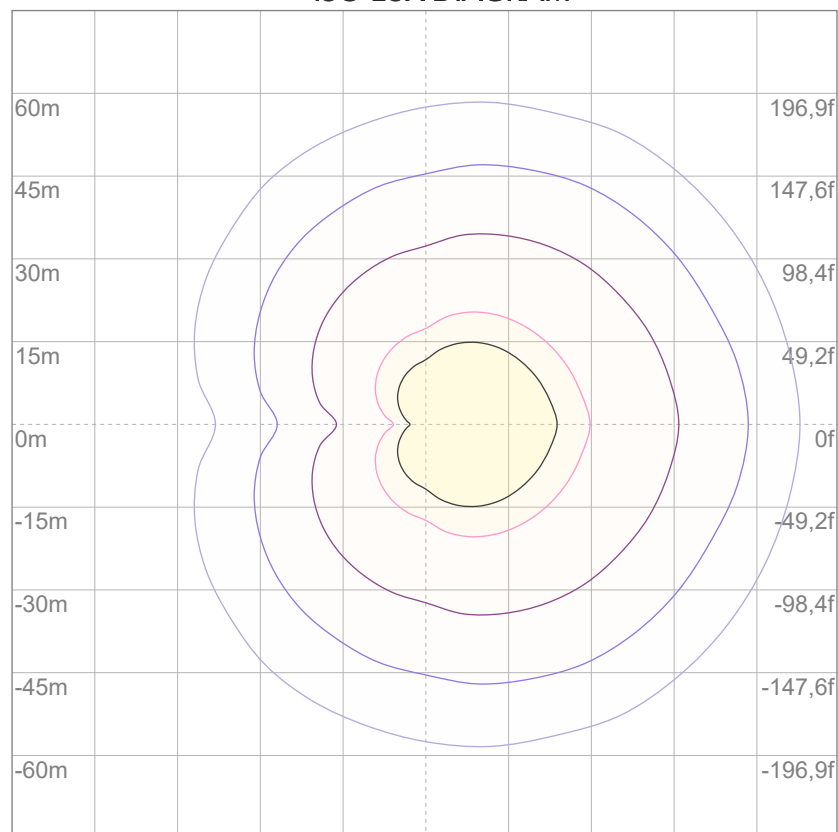
10%	435 cd
20%	870 cd
30%	1306 cd
40%	1741 cd
50%	2176 cd
60%	2611 cd
70%	3046 cd
80%	3482 cd

Conditions:

Number of c-planes: 4

Candela at center: 4352 cd

ISO LUX DIAGRAM



3%	1,31 lx
5%	2,18 lx
10%	4,35 lx
30%	13,1 lx
50%	21,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 43,5 lx

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



Total lumen output:

12579 lm

Peak candela output:

7832 cd

Light quality:

CRI: 92,0

Color temperature:

3218 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

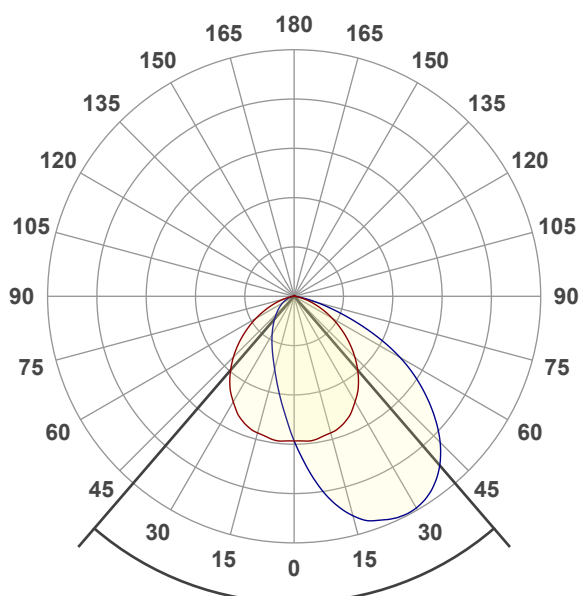
3200K HQ

Operator:

Giuseppe della Peruta

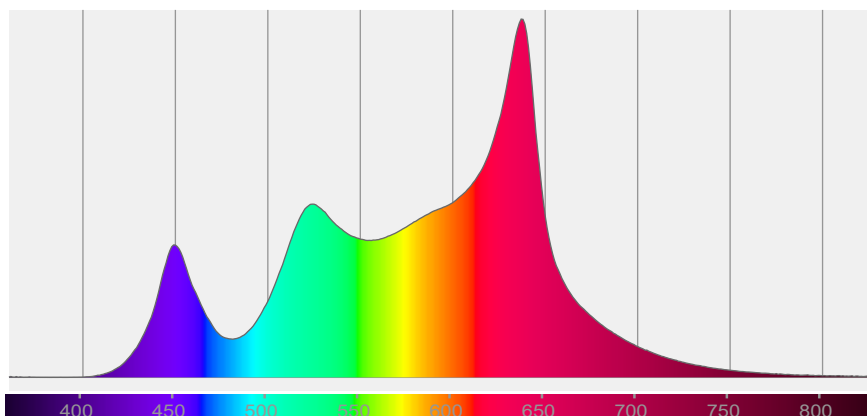
Date and time:

04/09/2025 13:36:20

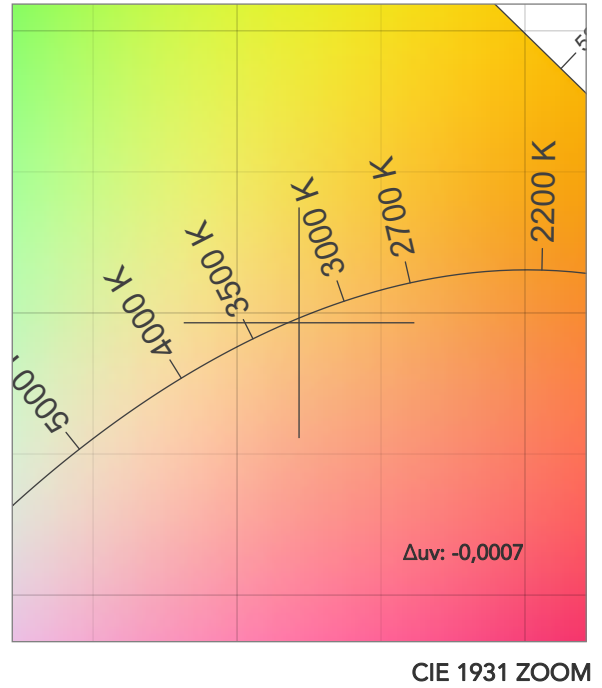
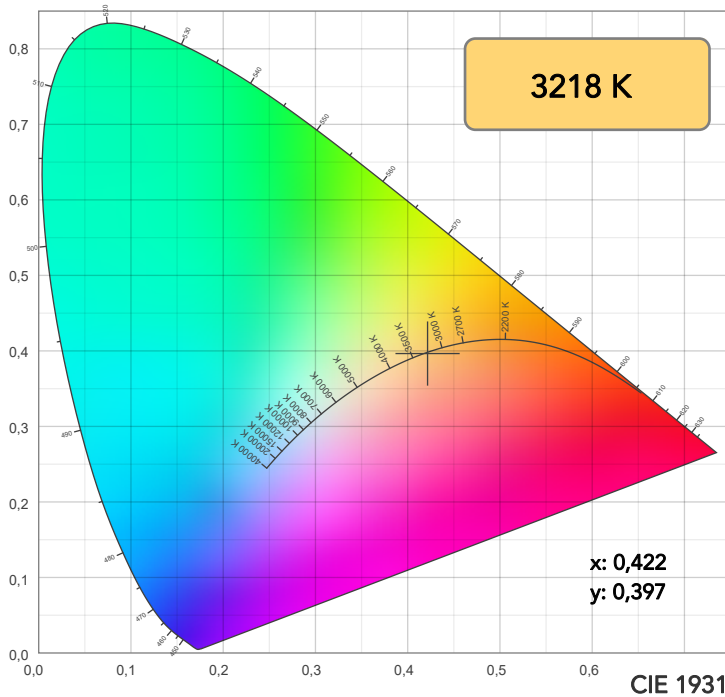


	Blue curve V	Red curve H
Beam angle 50%:	63,6°	99,3°
Field angle 10%:	120,7°	145,7°
Cut off angle 2.5%:	152,3°	162,2°

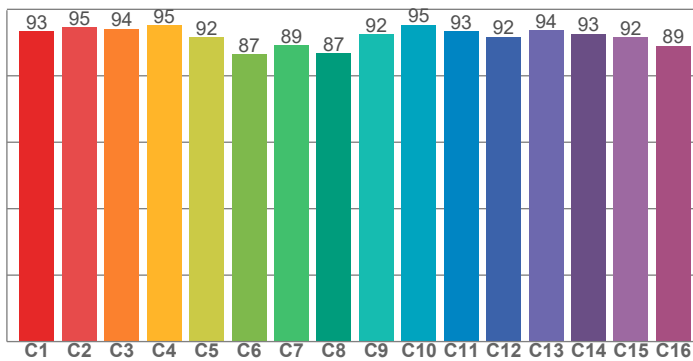
Spectra



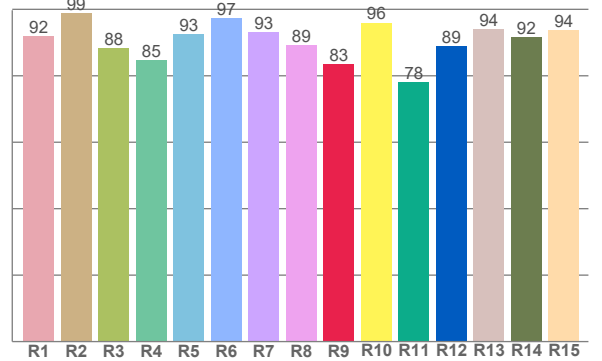
COLOR DETAILS



TM30: 92,4



CRI: 92,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,8	98,8	88,3	84,8	92,6	97,3	93,1	89,2	83,5	96,0	78,0	89,0	93,9	91,7	93,8

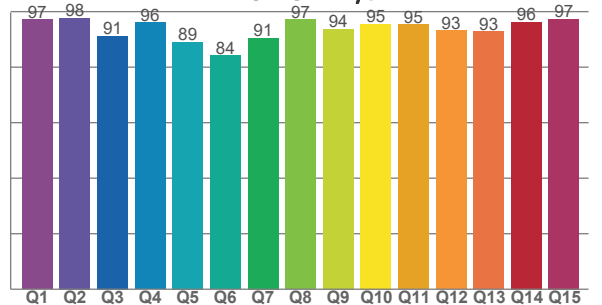
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,2	97,7	91,3	96,2	89,0	84,3	90,5	97,2	93,7	95,5	95,4	93,2	92,8	96,3	97,4

CQS: 92,6



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
3218 K	92,0	83,5	92,4	107,2	92,6	86	0,422	0,397	-0,0007

TM30 DETAILS

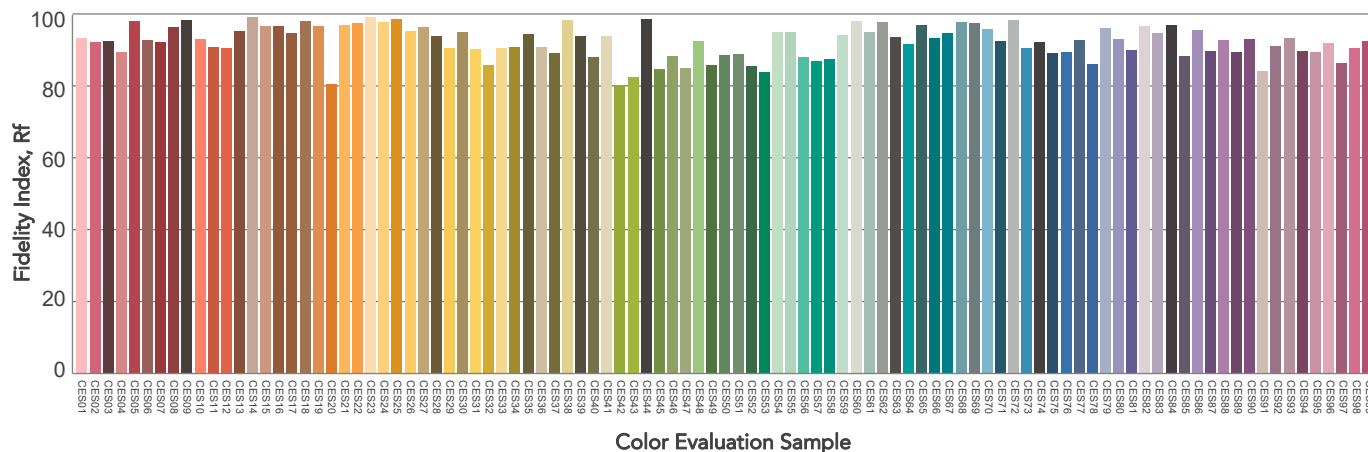
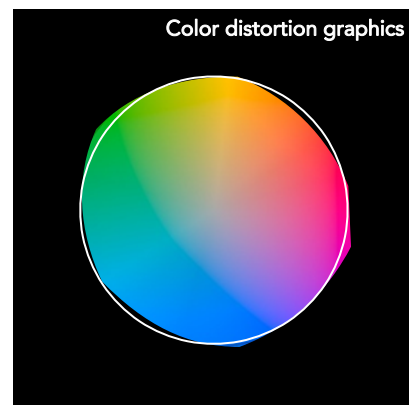
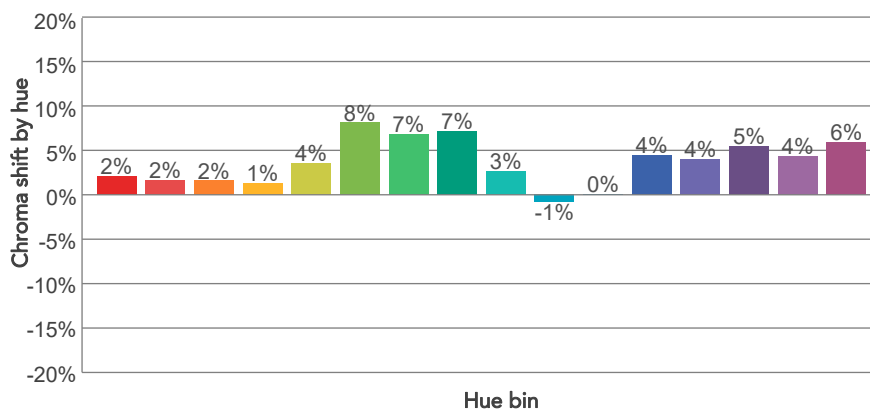
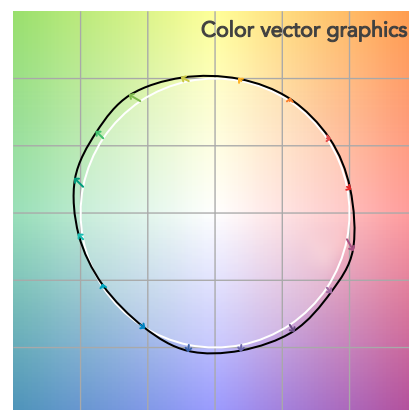
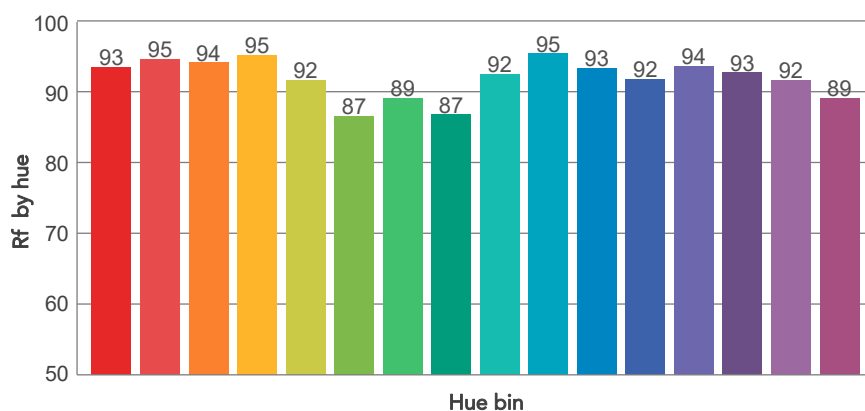
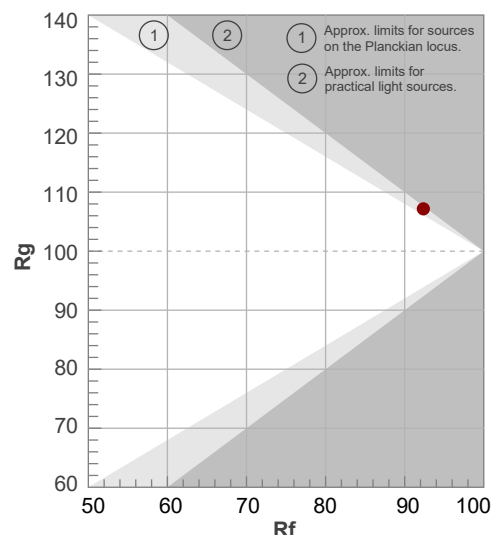
Rf 92,4

Fidelity index Rf

Rg 107,2

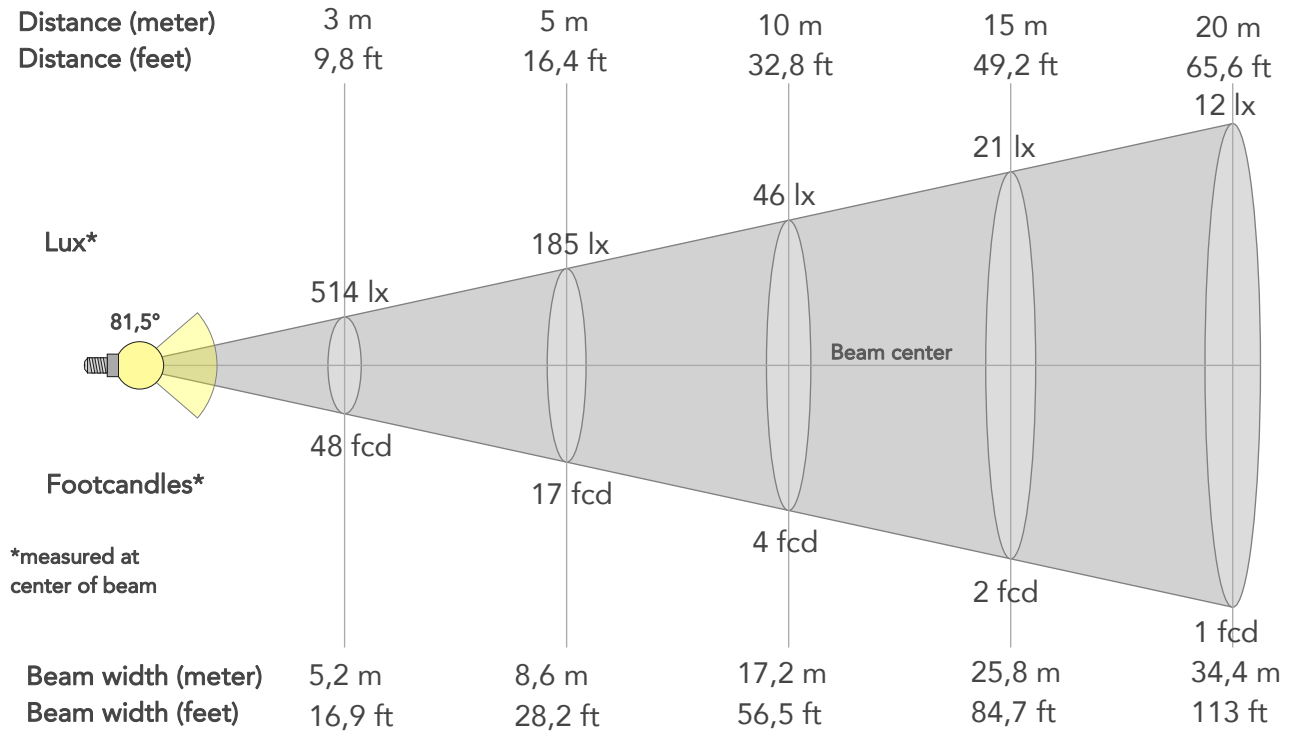
Gammut index

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



BEAM DETAILS

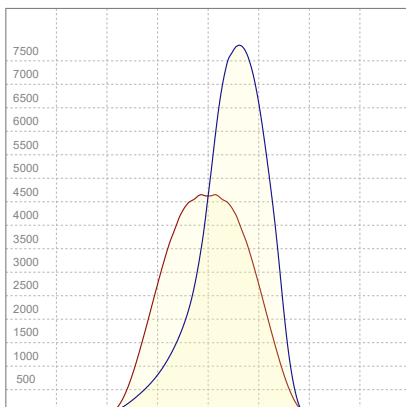
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,5°	133,2°	157,3°	86,1%	60,3%



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	4624lx	1156lx	514lx	289lx	185lx	82lx	46lx	21lx	12lx	7lx	5lx	3lx	2lx
Footcand.	430fcd	107fcd	48fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,2m	6,9m	8,6m	12,9m	17,2m	25,8m	34,4m	43m	51,7m	68,9m	86,1m
Beam wid.	5,7ft	11,4ft	16,9ft	22,6ft	28,2ft	42,4ft	56,5ft	84,7ft	113ft	141,2ft	169,4ft	225,9ft	282,4ft

LINEAR DISTRIBUTION DIAGRAM

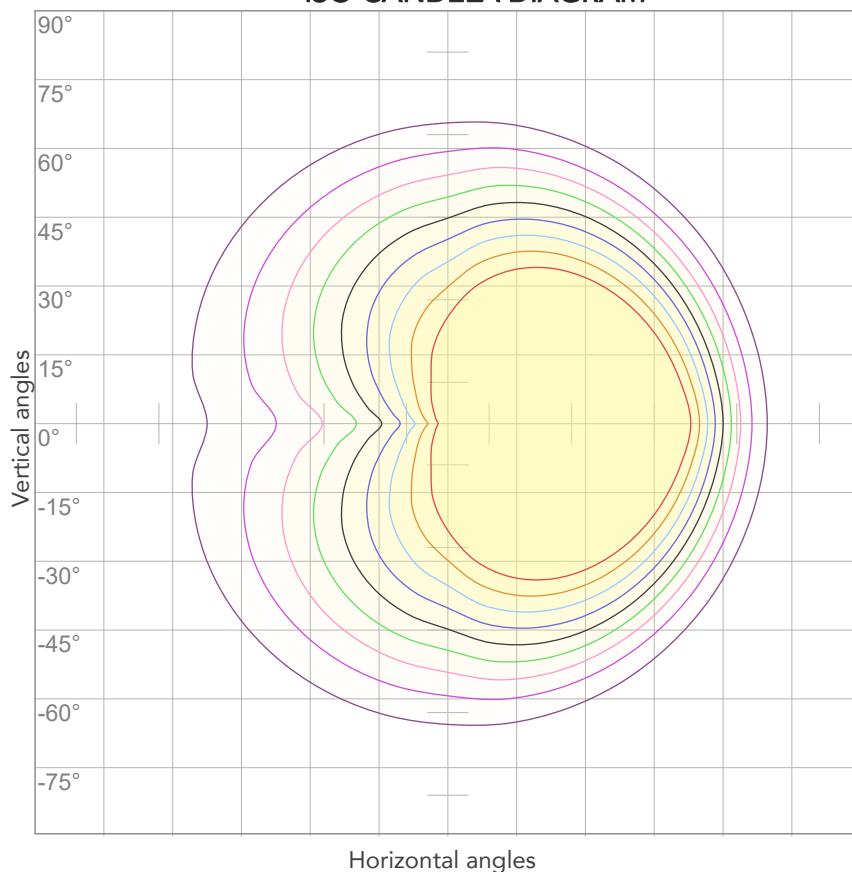


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	1,11A	240W	0,95	52lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



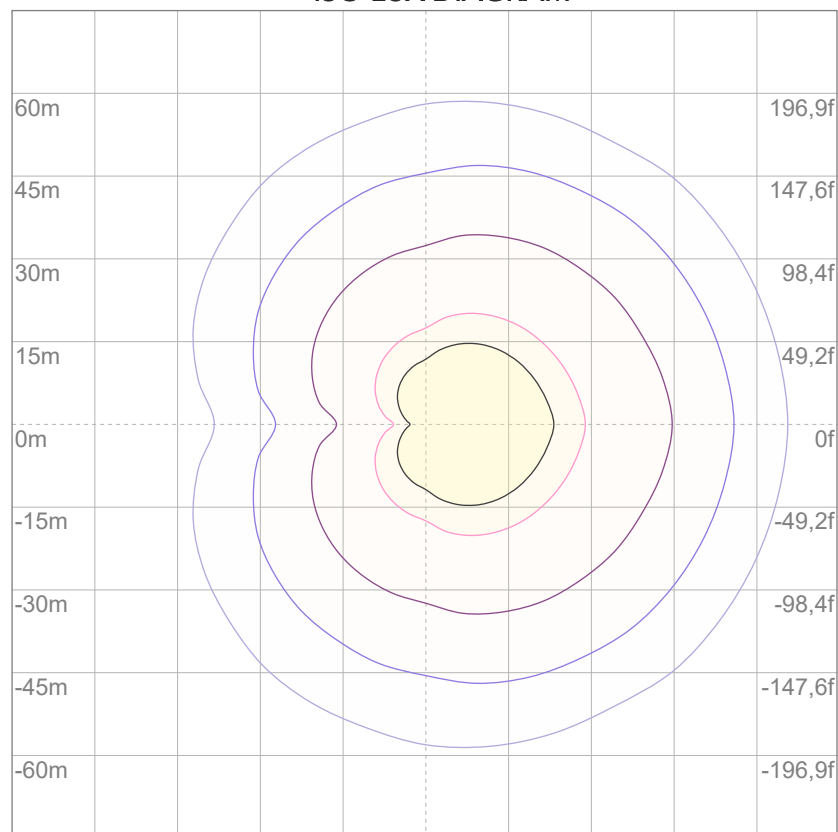
10%	462 cd
20%	925 cd
30%	1387 cd
40%	1850 cd
50%	2312 cd
60%	2775 cd
70%	3237 cd
80%	3699 cd

Conditions:

Number of c-planes: 4

Candela at center: 4624 cd

ISO LUX DIAGRAM



3%	1,39 lx
5%	2,31 lx
10%	4,62 lx
30%	13,9 lx
50%	23,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 46,2 lx

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



Total lumen output:

13163 lm

Peak candela output:

8259 cd

Light quality:

CRI: 93,2

Color temperature:

4022 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

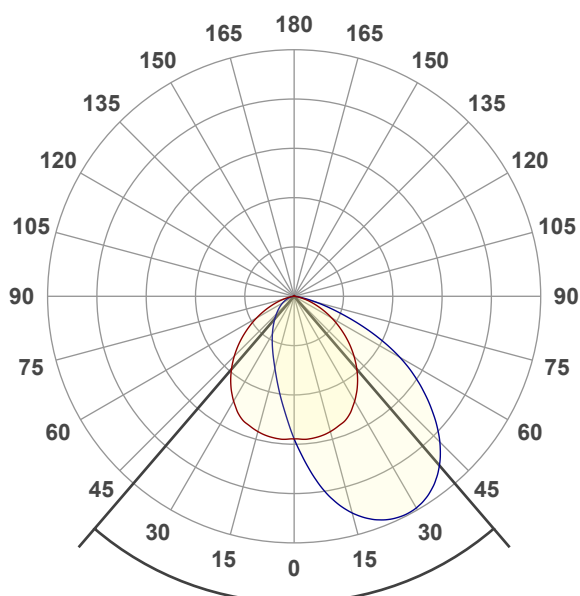
4000K HQ

Operator:

Giuseppe della Peruta

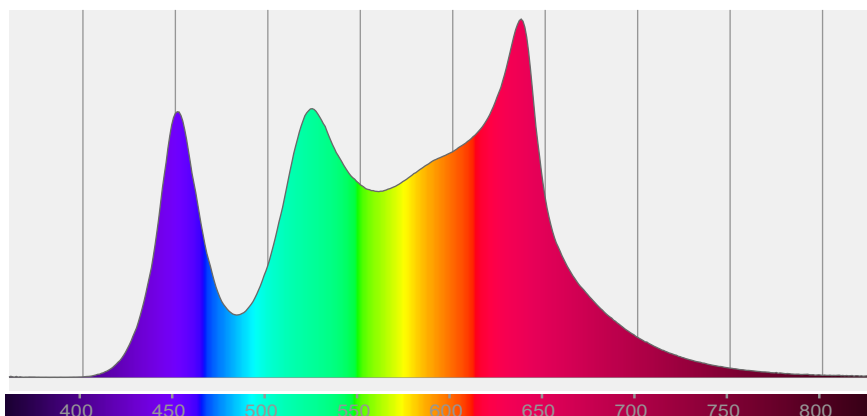
Date and time:

04/09/2025 13:29:09

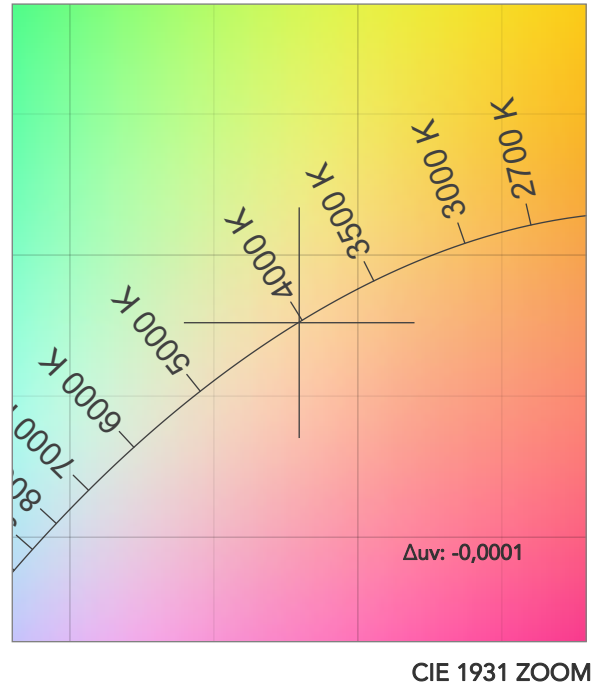
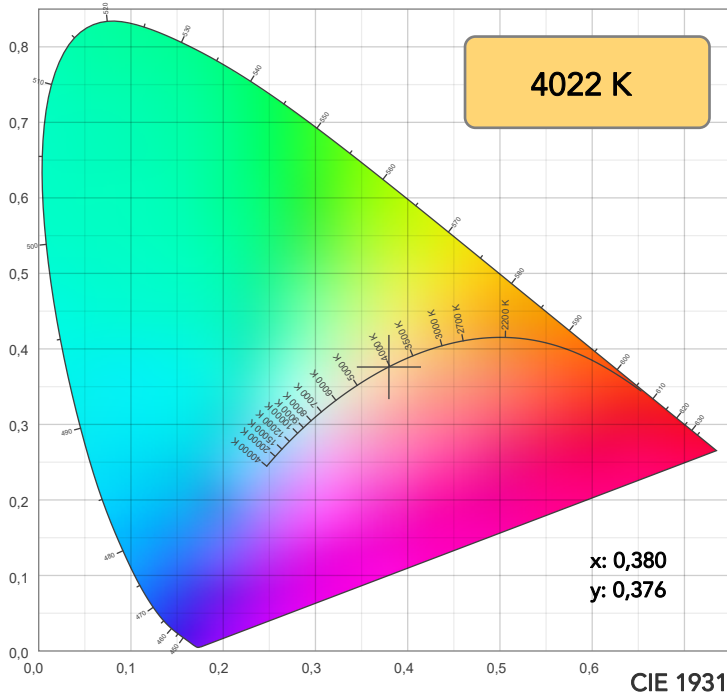


	Blue curve V	Red curve H
Beam angle 50%:	63,3°	99,3°
Field angle 10%:	120,3°	145,8°
Cut off angle 2.5%:	152,2°	162,2°

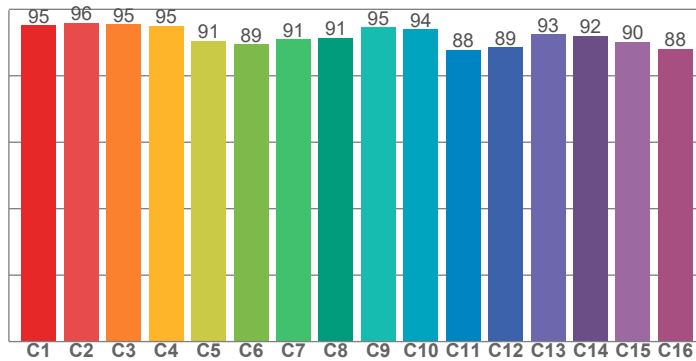
Spectra



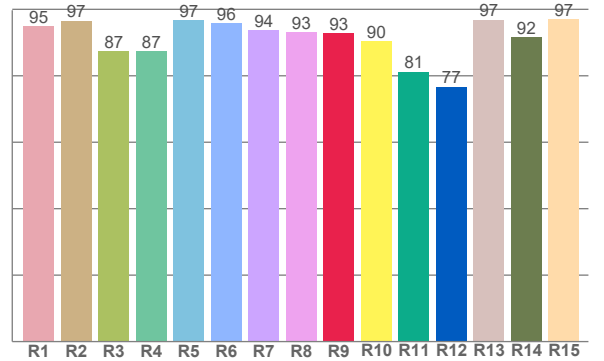
COLOR DETAILS



TM30: 92,2



CRI: 93,2 (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
94,8	96,6	87,3	87,4	96,6	95,9	93,6	93,2	92,9	90,4	81,3	76,7	96,9	91,5	97,0

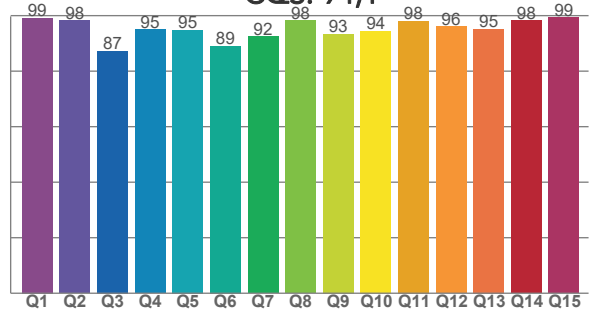
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	96,0	95,4	95,0	90,5	89,5	91,0	91,5	94,7	93,9	87,8	88,6	92,6	92,1	90,2	88,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99,2	98,3	87,2	95,1	94,8	89,1	92,5	98,3	93,4	94,4	98,0	96,0	95,2	98,3	99,4

CQS: 94,1



COLOR PARAMETERS

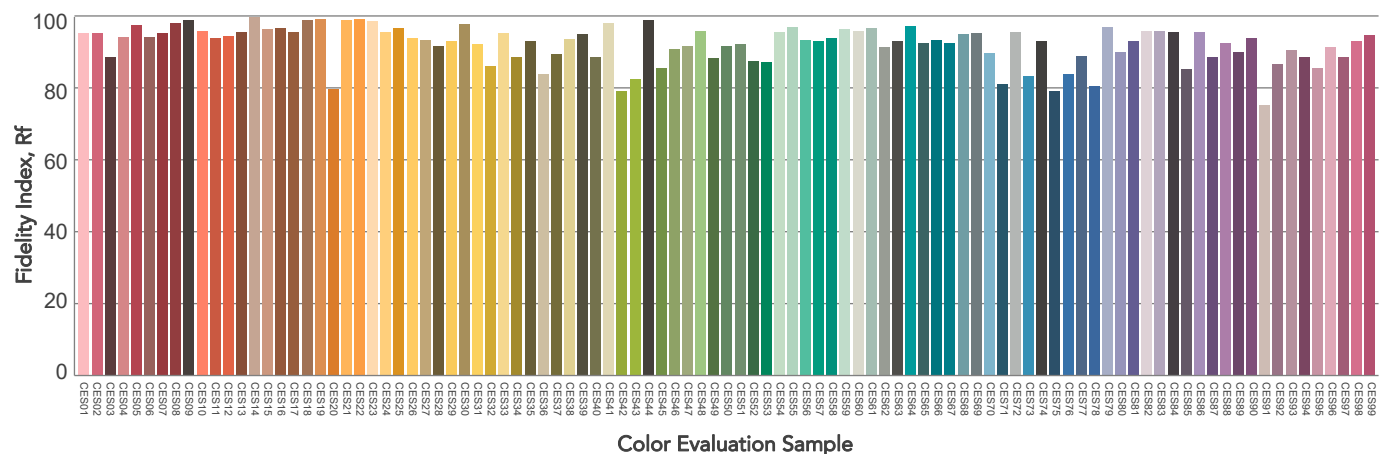
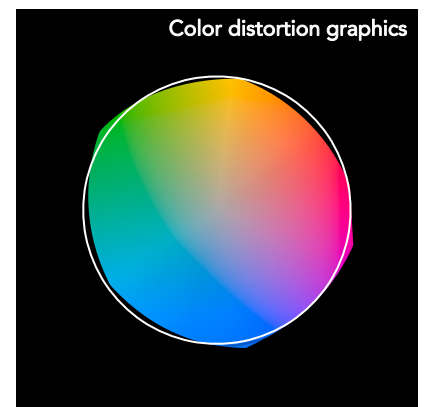
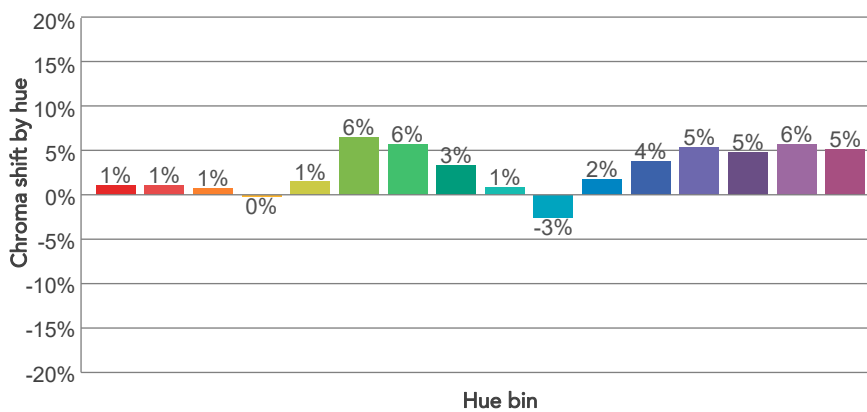
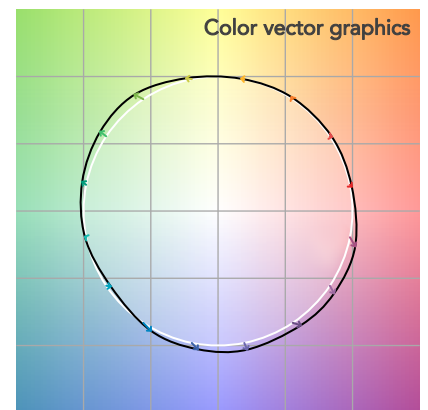
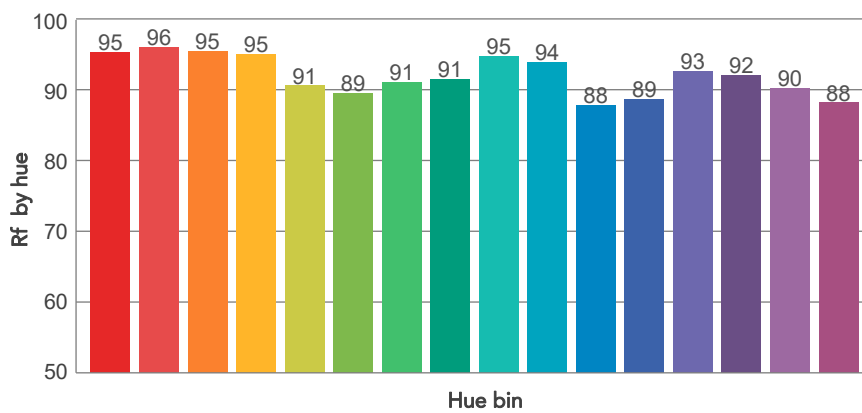
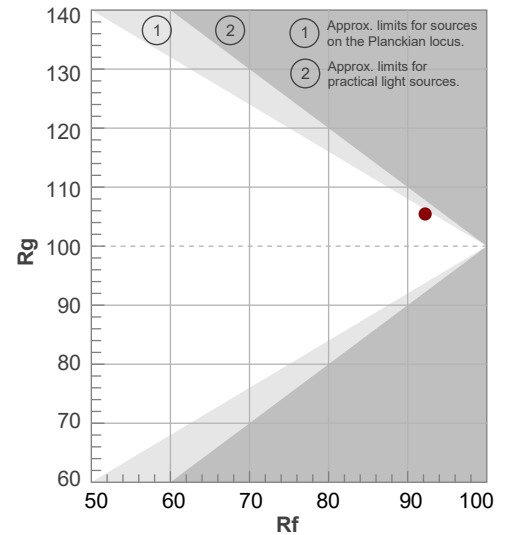
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4022 K	93,2	92,9	92,2	105,5	94,1	88	0,380	0,376	-0,0001

TM30 DETAILS

Rf 92,2
Fidelity index Rf

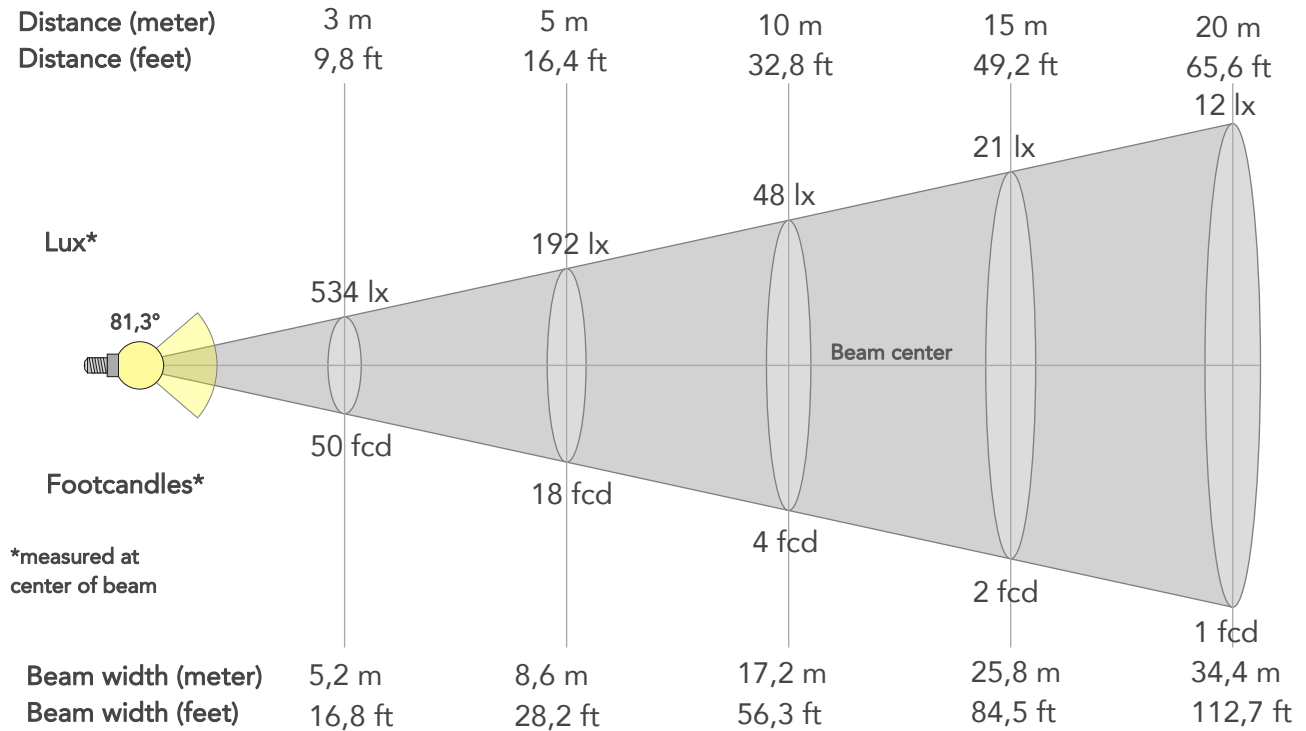
Rg 105,5
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	1%	-2%
2	96	1%	-1%
3	95	1%	2%
4	95	0%	2%
5	91	1%	4%
6	89	6%	4%
7	91	6%	0%
8	91	3%	-2%
9	95	1%	-1%
10	94	-3%	2%
11	88	2%	8%
12	89	4%	5%
13	93	5%	1%
14	92	5%	4%
15	90	6%	-3%
16	88	5%	-6%



BEAM DETAILS

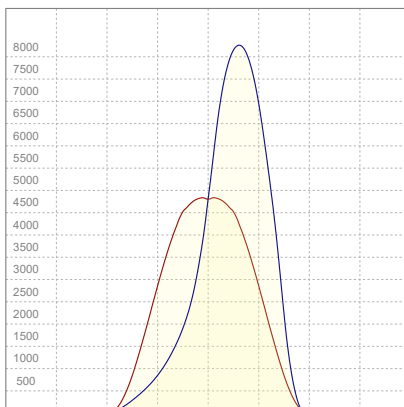
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,3°	133°	157,2°	86,1%	60,3%



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	4806lx	1201lx	534lx	300lx	192lx	85lx	48lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	446fcd	112fcd	50fcd	28fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,2m	6,9m	8,6m	12,9m	17,2m	25,8m	34,4m	42,9m	51,5m	68,7m	85,9m
Beam wid.	5,7ft	11,3ft	16,8ft	22,5ft	28,2ft	42,3ft	56,3ft	84,5ft	112,7ft	140,8ft	169ft	225,3ft	281,7ft

LINEAR DISTRIBUTION DIAGRAM

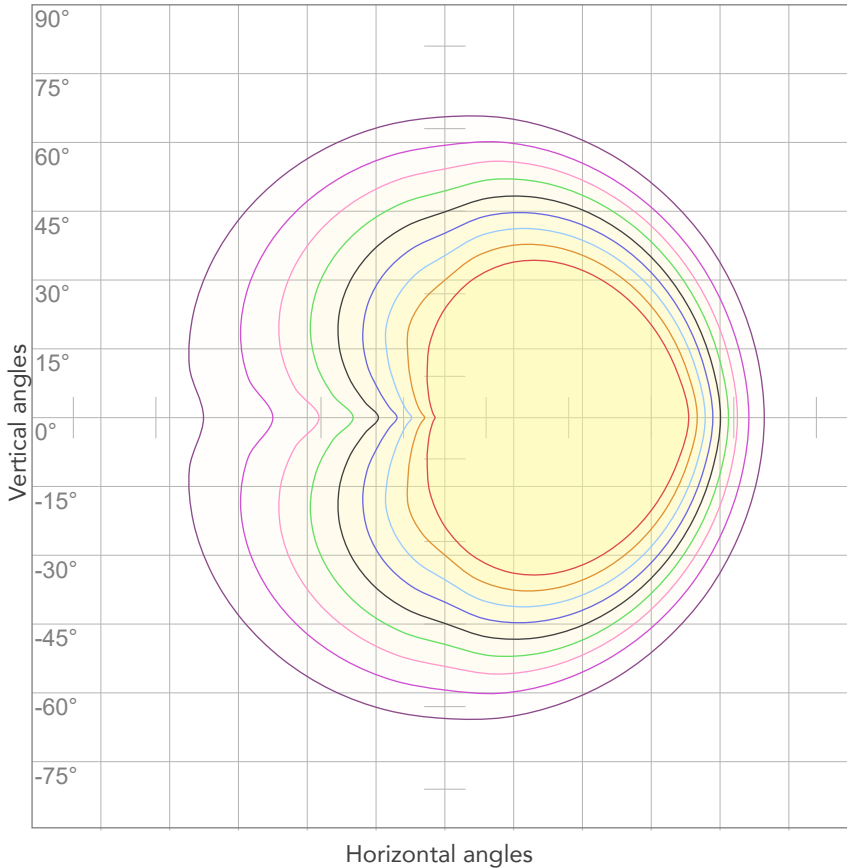


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	1,14A	247,1W	0,96	53lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



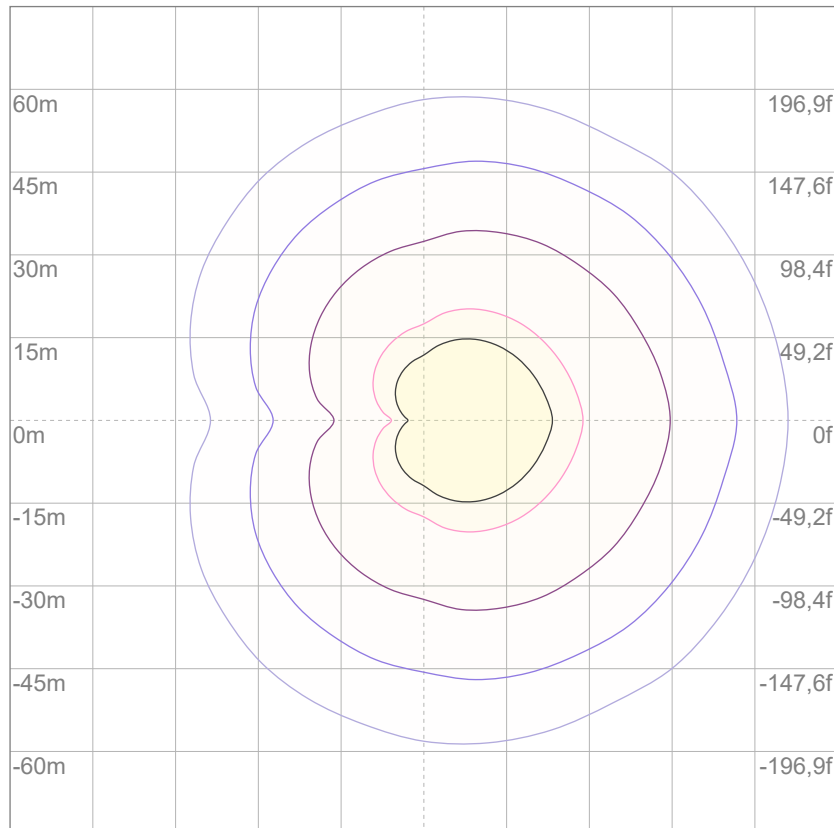
10%	481 cd
20%	961 cd
30%	1442 cd
40%	1922 cd
50%	2403 cd
60%	2884 cd
70%	3364 cd
80%	3845 cd

Conditions:

Number of c-planes: 4

Candela at center: 4806 cd

ISO LUX DIAGRAM



3%	1,44 lx
5%	2,40 lx
10%	4,81 lx
30%	14,4 lx
50%	24,0 lx

Conditions:

Number of c-planes: 4

Lux at center: 48,1 lx

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



Total lumen output:

12790 lm

Peak candela output:

8091 cd

Light quality:

CRI: 93,2

Color temperature:

5635 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

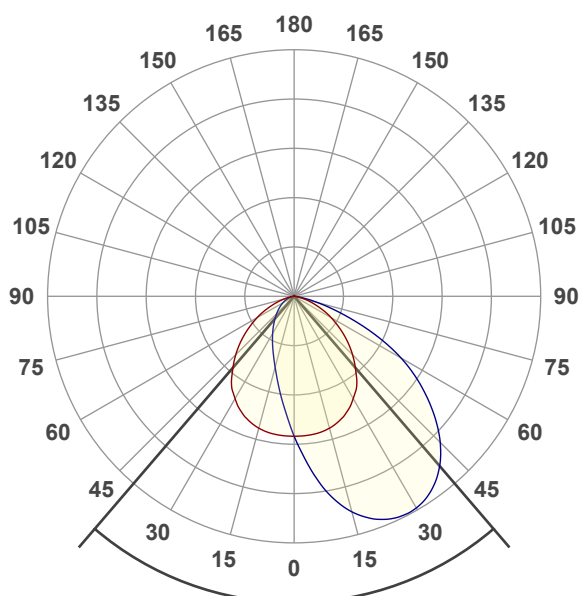
5600K HQ

Operator:

Giuseppe della Peruta

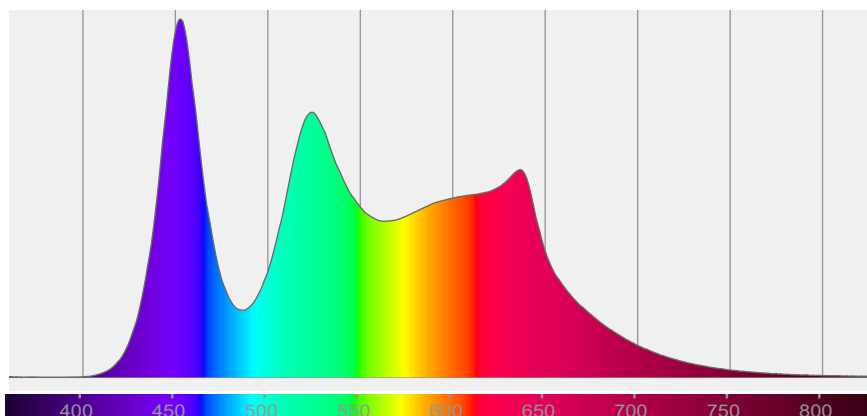
Date and time:

04/09/2025 13:19:25

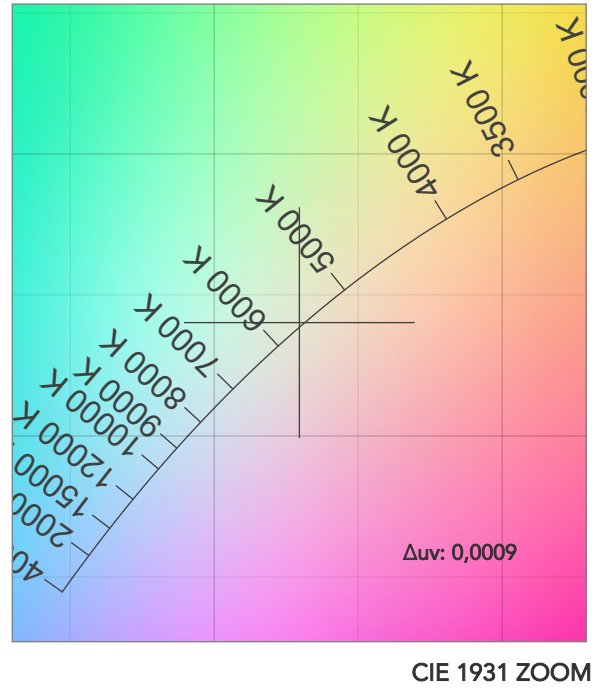
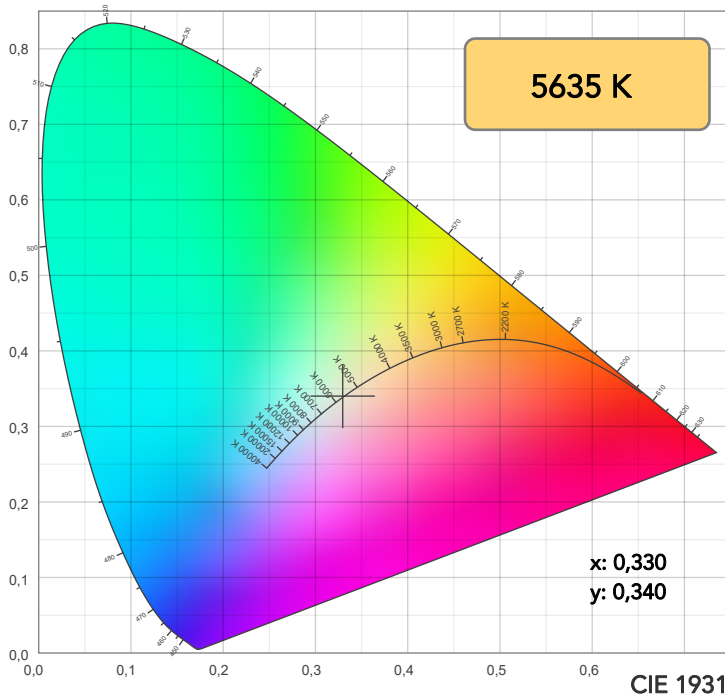


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	99,3°
Field angle 10%:	120,3°	145,9°
Cut off angle 2.5%:	152,3°	162,2°

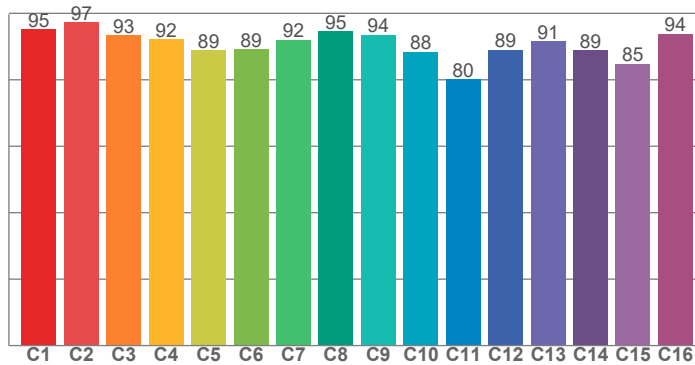
Spectra



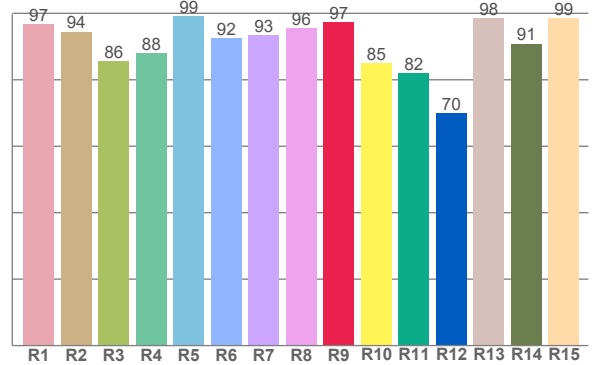
COLOR DETAILS



TM30: 90,6



CRI: 93,2 (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
96,7	94,5	85,5	88,0	99,1	92,4	93,4	95,7	97,3	85,1	81,9	69,8	98,4	90,8	98,6

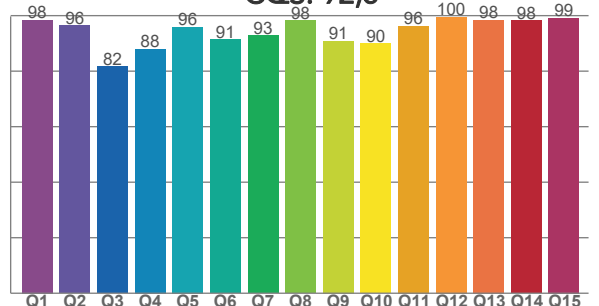
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	97,3	93,4	92,1	88,9	89,3	92,1	94,5	93,5	88,4	80,2	89,0	91,5	88,8	84,8	93,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,4	96,4	81,7	88,1	95,9	91,4	92,9	98,2	90,9	90,0	96,3	99,5	98,4	98,2	99,1

CQS: 92,5



COLOR PARAMETERS

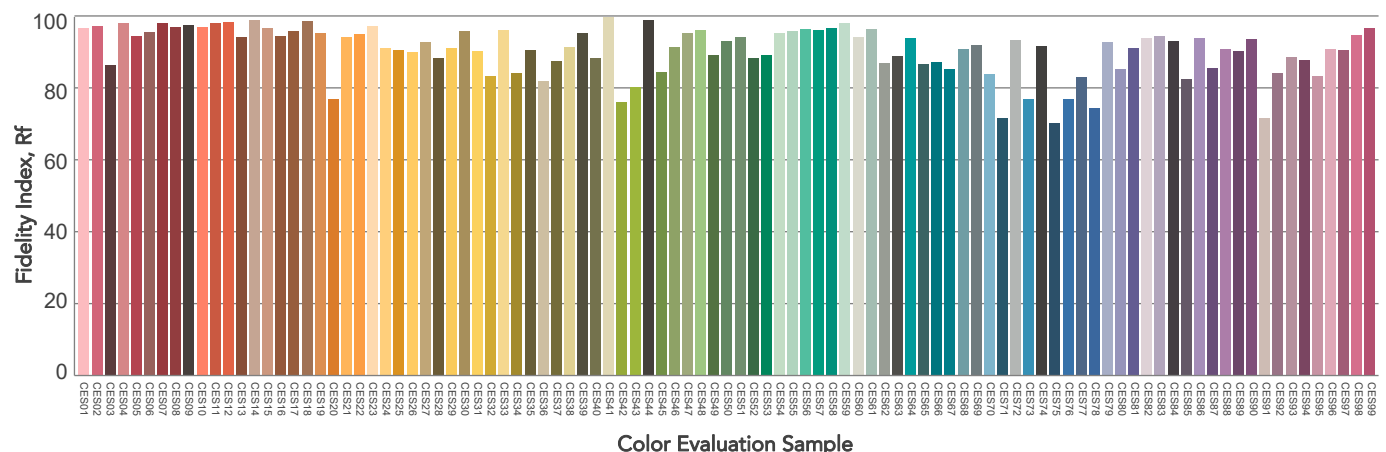
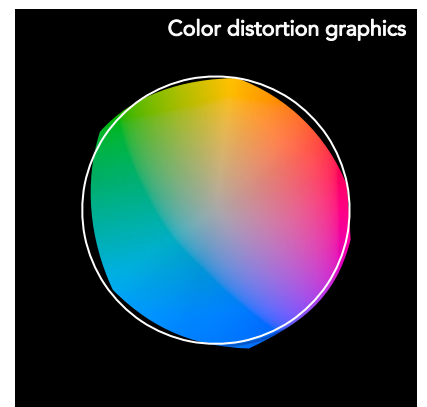
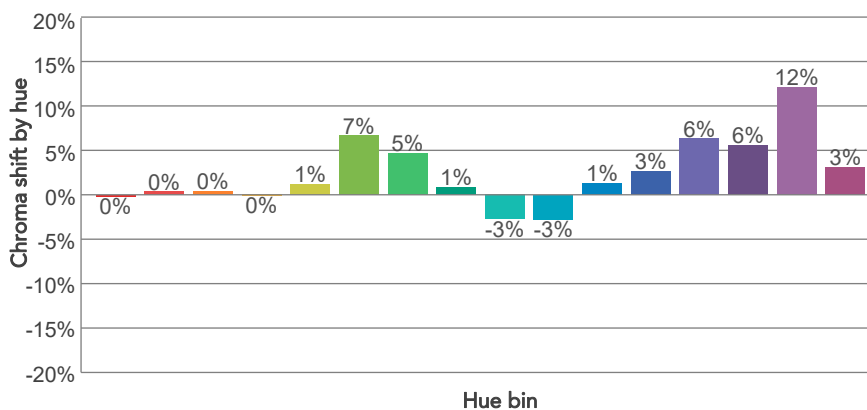
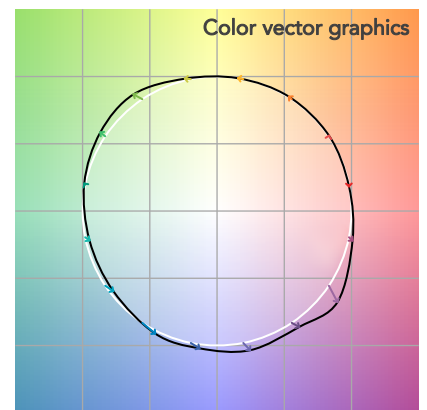
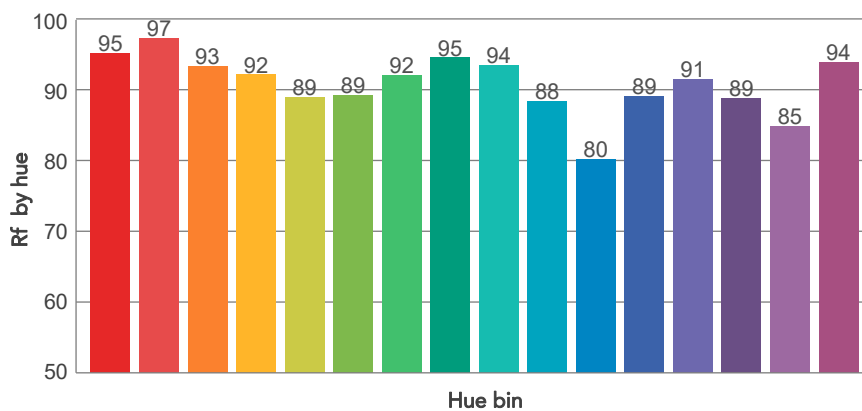
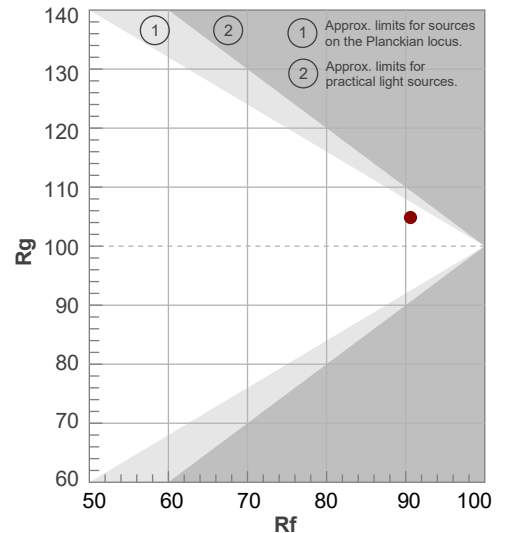
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5635 K	93,2	97,3	90,6	104,9	92,5	92	0,330	0,340	0,0009

TM30 DETAILS

Rf 90,6
Fidelity index Rf

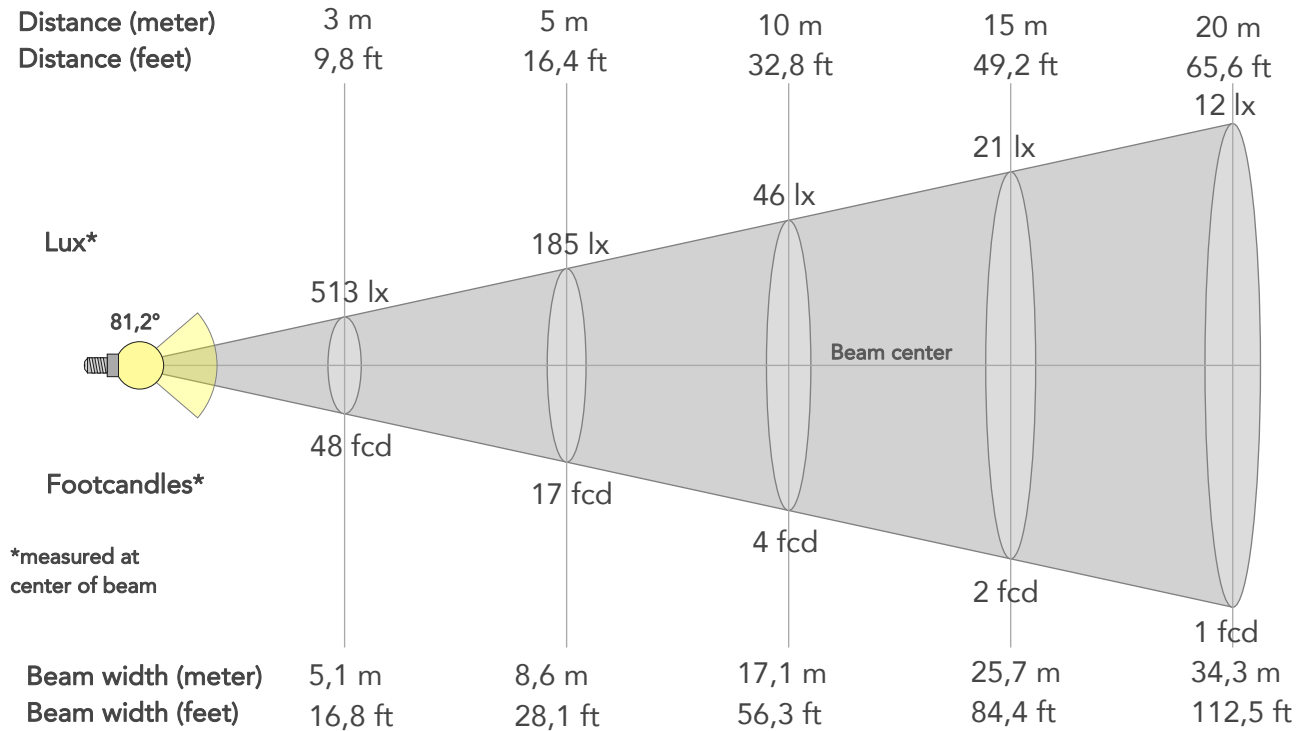
Rg 104,9
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	0%	0%
3	93	0%	3%
4	92	0%	4%
5	89	1%	4%
6	89	7%	3%
7	92	5%	0%
8	95	1%	-1%
9	94	-3%	3%
10	88	-3%	7%
11	80	1%	12%
12	89	3%	7%
13	91	6%	4%
14	89	6%	3%
15	85	12%	-7%
16	94	3%	-2%



BEAM DETAILS

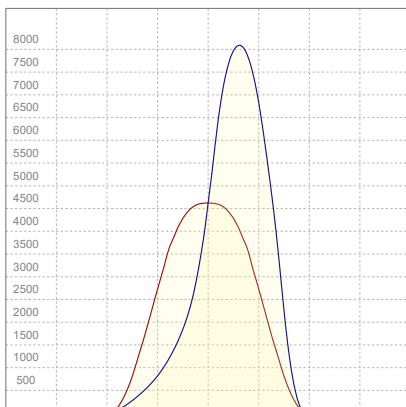
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,2°	133,1°	157,2°	85,9%	60,0%



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	4620lx	1155lx	513lx	289lx	185lx	82lx	46lx	21lx	12lx	7lx	5lx	3lx	2lx
Footcand.	429fcd	107fcd	48fcd	27fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,9m	8,6m	12,9m	17,1m	25,7m	34,3m	42,9m	51,4m	68,6m	85,7m
Beam wid.	5,7ft	11,3ft	16,8ft	22,5ft	28,1ft	42,2ft	56,3ft	84,4ft	112,5ft	140,6ft	168,8ft	225ft	281,3ft

LINEAR DISTRIBUTION DIAGRAM

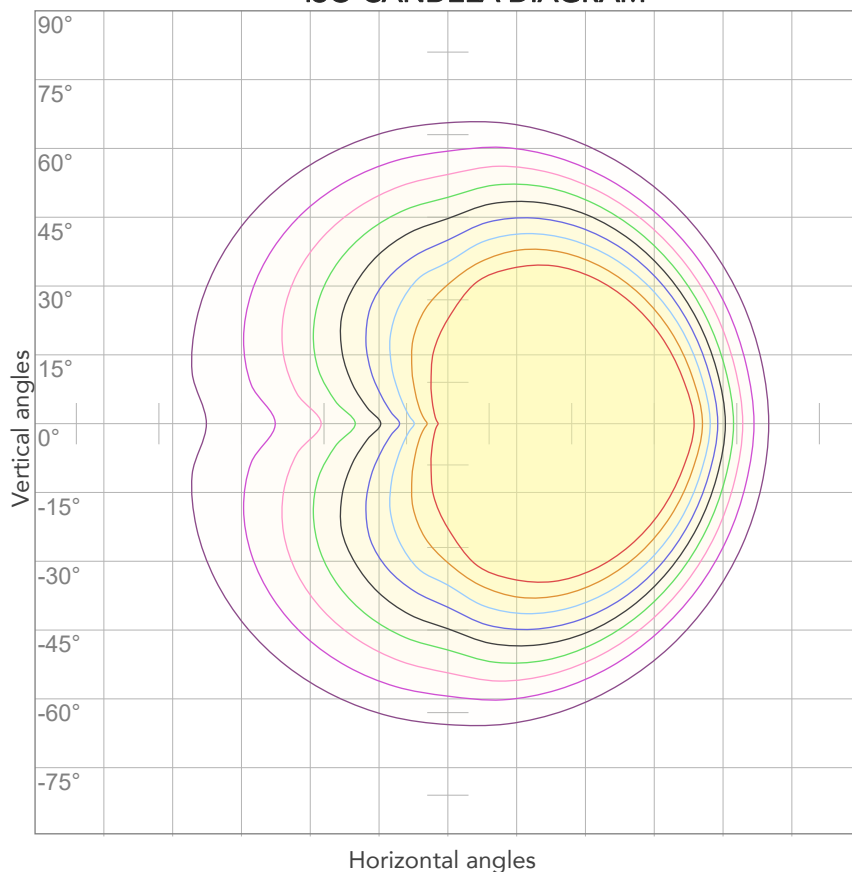


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,228A	9,6W	0,19	1331lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



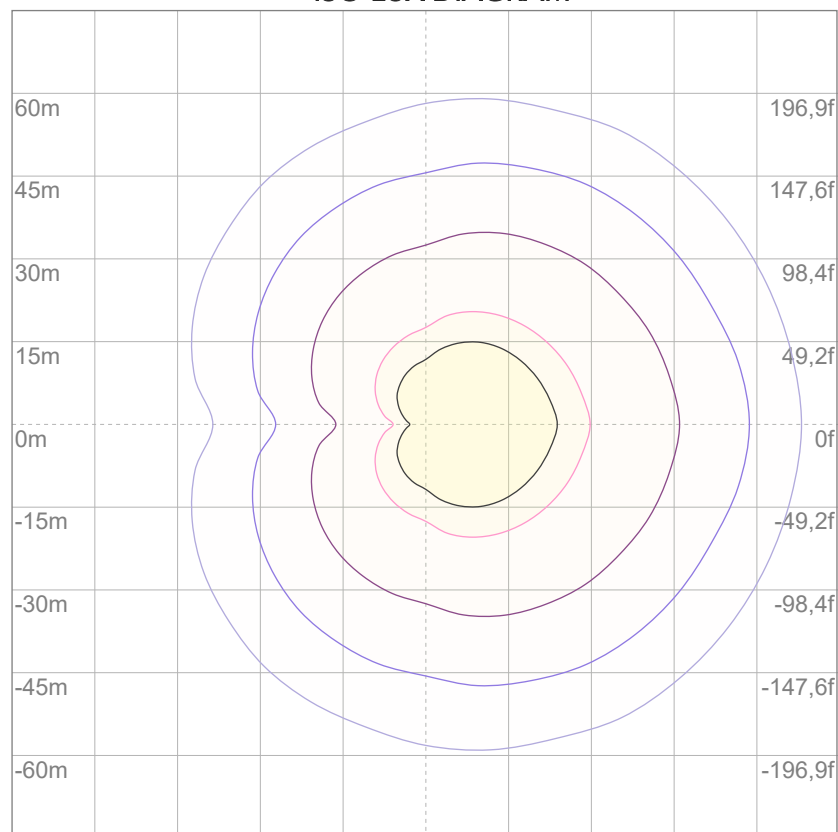
10%	462 cd
20%	924 cd
30%	1386 cd
40%	1848 cd
50%	2310 cd
60%	2772 cd
70%	3234 cd
80%	3696 cd

Conditions:

Number of c-planes: 4

Candela at center: 4620 cd

ISO LUX DIAGRAM



3%	1,39 lx
5%	2,31 lx
10%	4,62 lx
30%	13,9 lx
50%	23,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 46,2 lx

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



Total lumen output:

13482 lm

Peak candela output:

8537 cd

Light quality:

CRI: 93,1

Color temperature:

6007 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

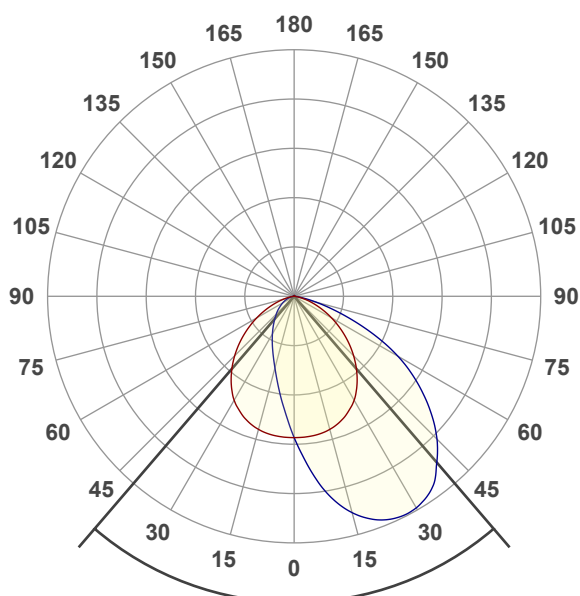
6000K HQ

Operator:

Giuseppe della Peruta

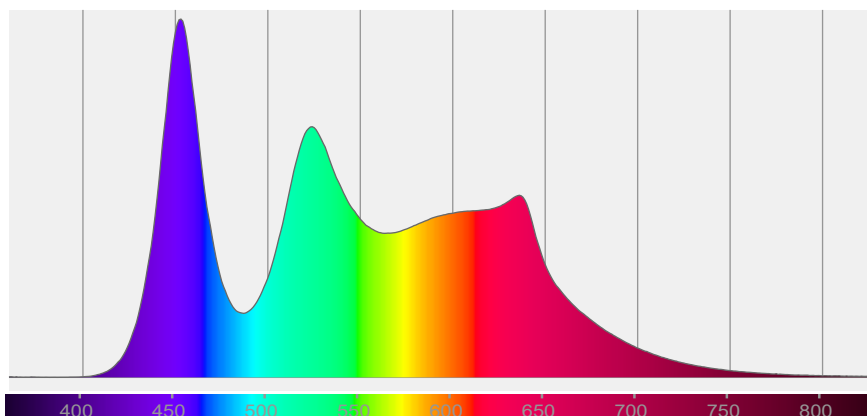
Date and time:

04/09/2025 13:09:44

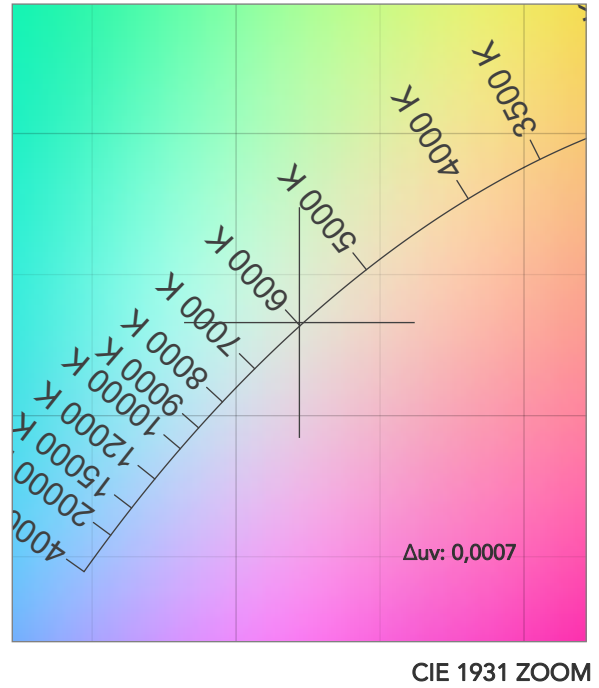
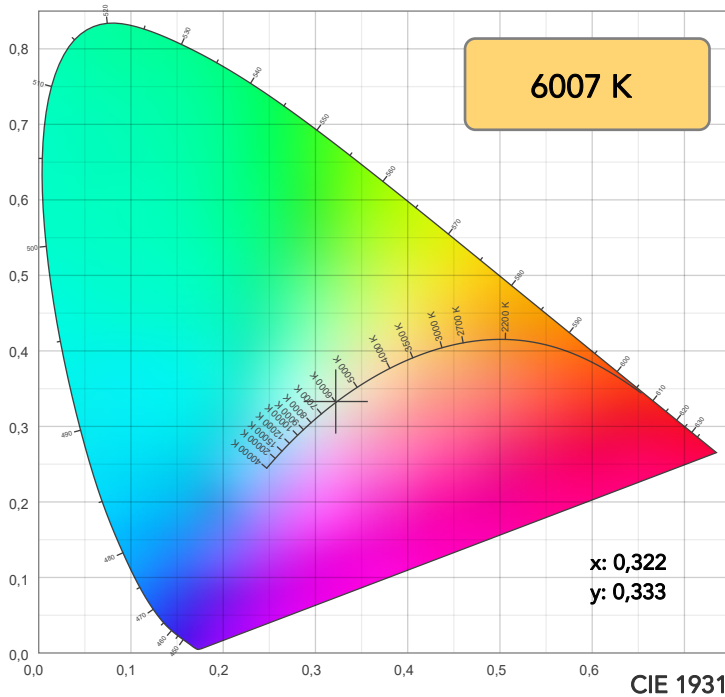


	Blue curve V	Red curve H
Beam angle 50%:	62,8°	99,8°
Field angle 10%:	120,5°	146°
Cut off angle 2.5%:	152,5°	162,3°

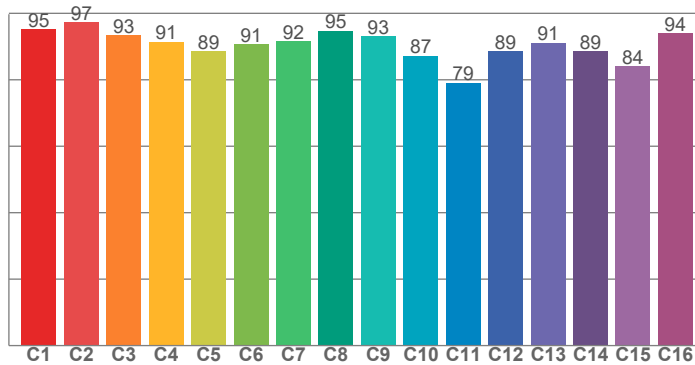
Spectra



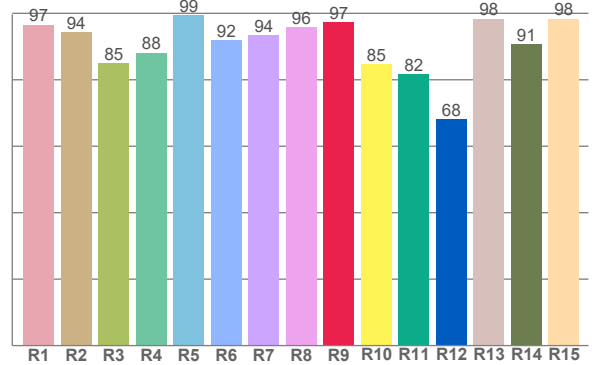
COLOR DETAILS



TM30: 90,3



CRI: 93,1 (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
96,6	94,3	85,1	88,2	99,5	91,9	93,5	95,8	97,3	84,6	81,8	68,2	98,4	90,7	98,4

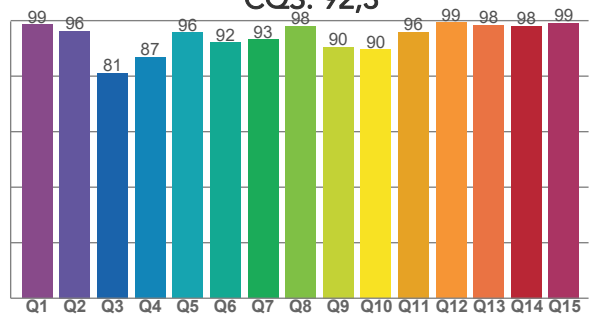
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,2	97,2	93,3	91,4	88,6	90,6	91,5	94,7	93,0	87,3	79,0	88,5	91,2	88,6	84,1	94,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98,6	96,3	81,1	86,9	95,7	92,1	93,3	98,0	90,5	89,7	95,9	99,4	98,5	98,1	99,1

CQS: 92,3



COLOR PARAMETERS

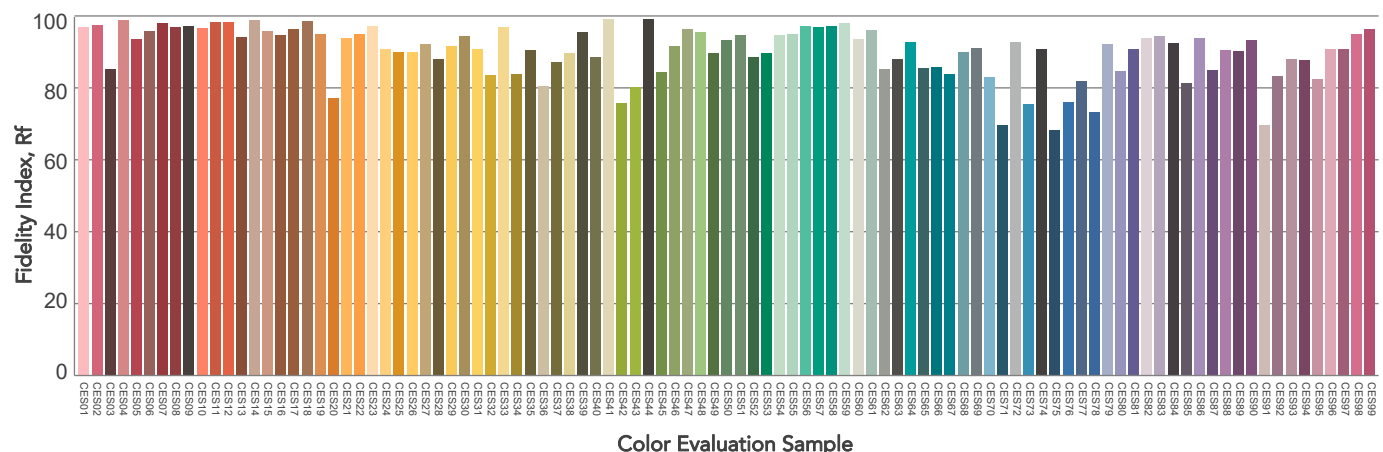
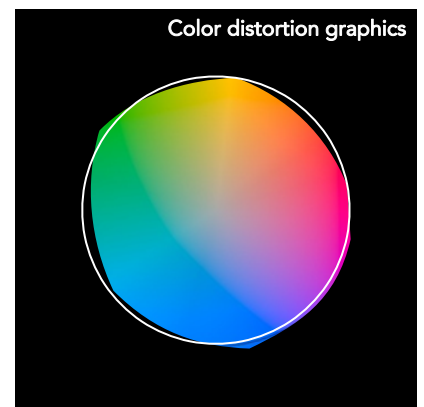
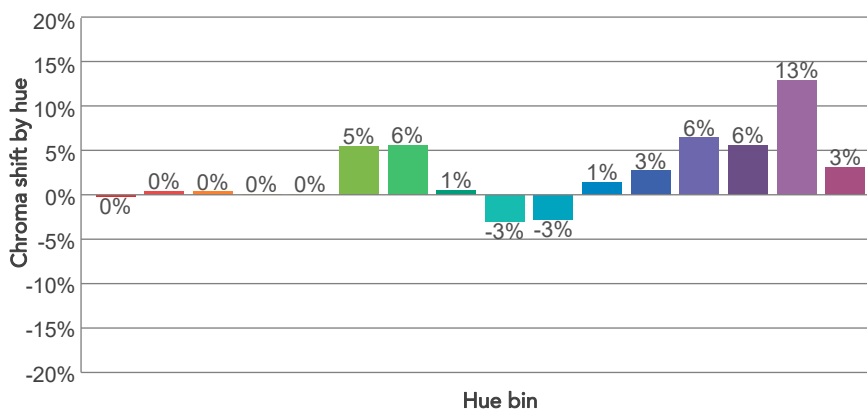
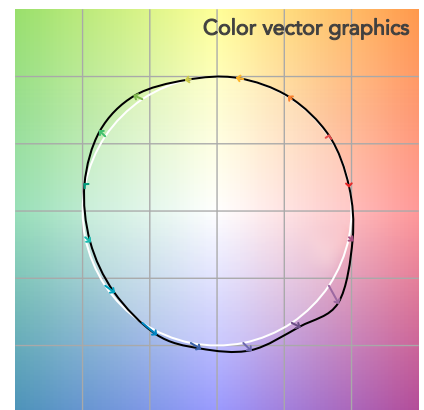
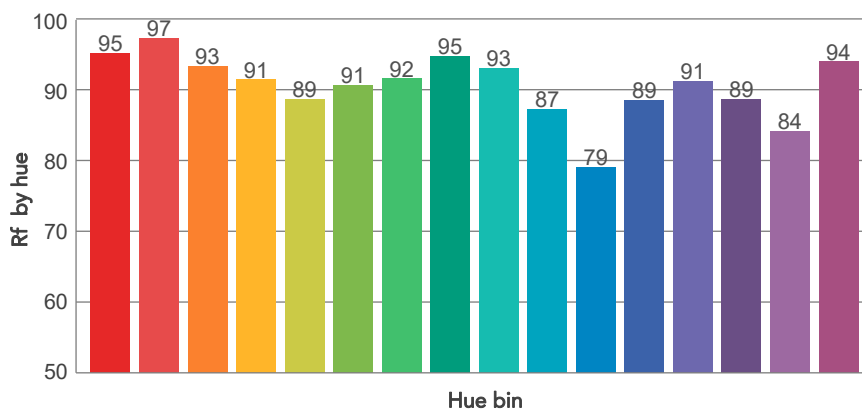
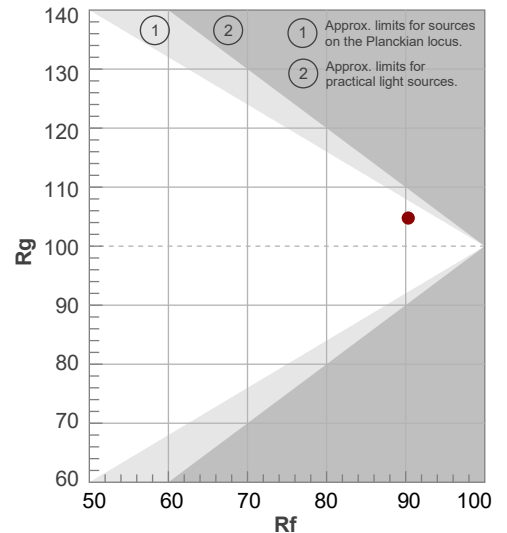
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6007 K	93,1	97,3	90,3	104,8	92,3	92	0,322	0,333	0,0007

TM30 DETAILS

Rf 90,3
Fidelity index Rf

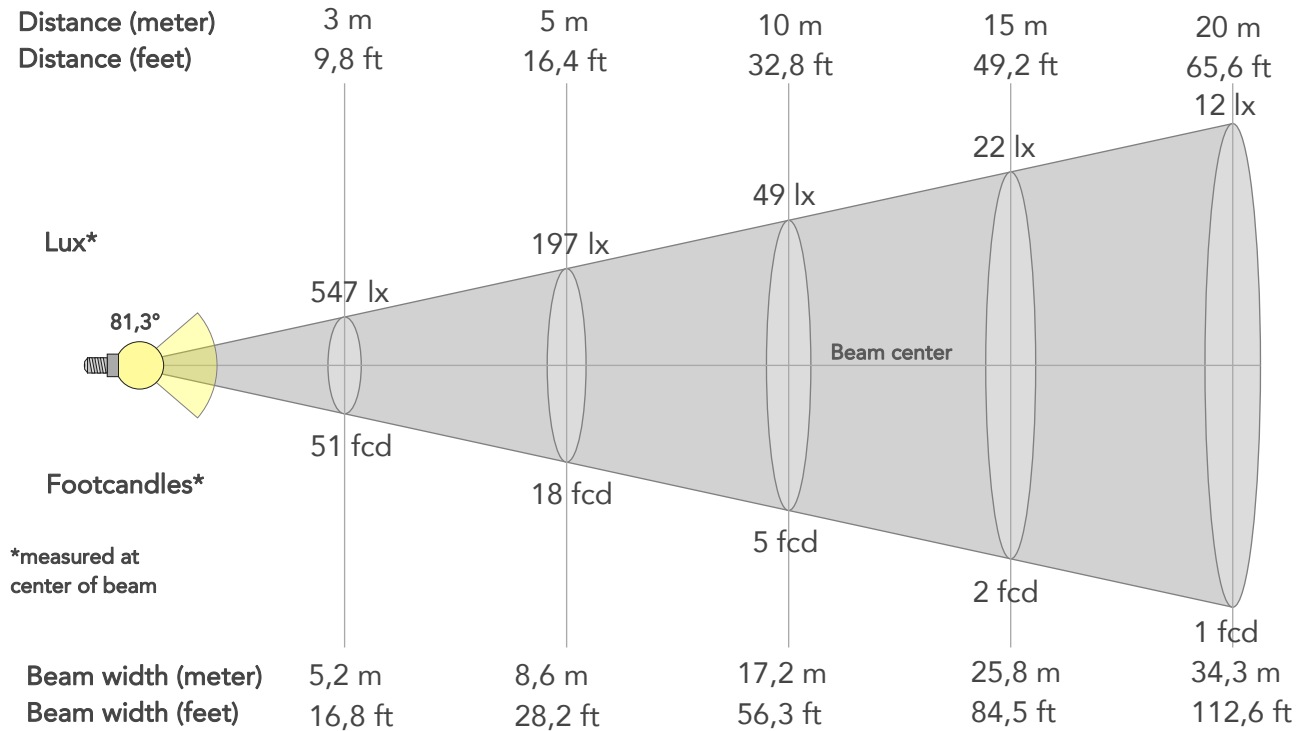
Rg 104,8
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-1%
2	97	0%	0%
3	93	0%	3%
4	91	0%	5%
5	89	0%	4%
6	91	5%	3%
7	92	6%	-1%
8	95	1%	0%
9	93	-3%	4%
10	87	-3%	7%
11	79	1%	13%
12	89	3%	7%
13	91	6%	4%
14	89	6%	3%
15	84	13%	-7%
16	94	3%	-2%



BEAM DETAILS

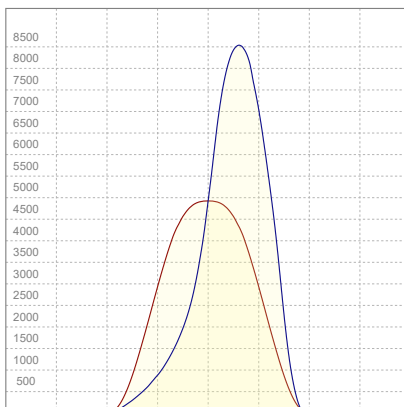
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,3°	133,3°	157,4°	86,1%	60,3%



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	4923lx	1231lx	547lx	308lx	197lx	88lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	457fcd	114fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,2m	6,9m	8,6m	12,9m	17,2m	25,8m	34,3m	42,9m	51,5m	68,7m	85,8m
Beam wid.	5,7ft	11,3ft	16,8ft	22,5ft	28,2ft	42,2ft	56,3ft	84,5ft	112,6ft	140,8ft	168,9ft	225,2ft	281,5ft

LINEAR DISTRIBUTION DIAGRAM

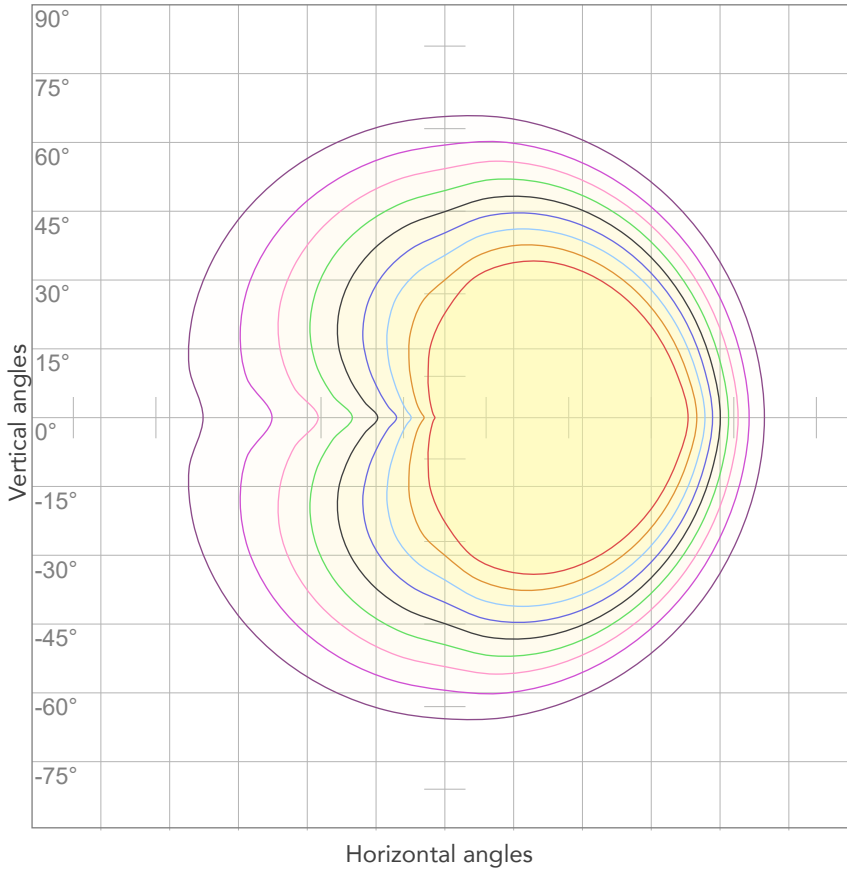


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	1,30A	285,3W	0,97	47lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



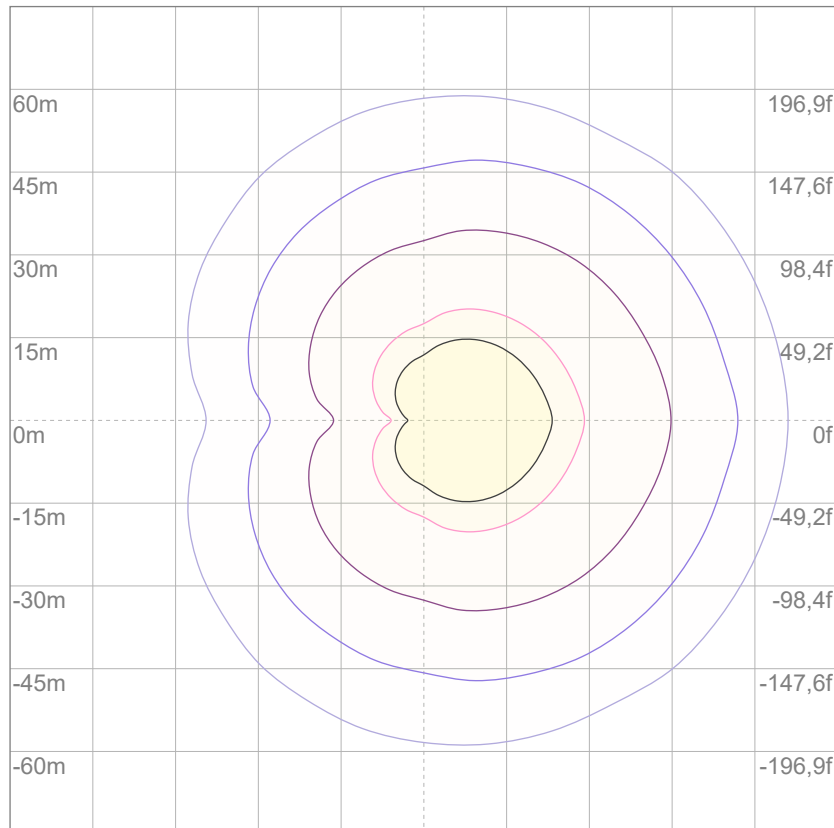
10%	492 cd
20%	985 cd
30%	1477 cd
40%	1969 cd
50%	2462 cd
60%	2954 cd
70%	3446 cd
80%	3939 cd

Conditions:

Number of c-planes: 4

Candela at center: 4923 cd

ISO LUX DIAGRAM



3%	1,48 lx
5%	2,46 lx
10%	4,92 lx
30%	14,8 lx
50%	24,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 49,2 lx

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