

Photometric Test Report



EclExpoFlood 300IPFC

IP65 300W Full Colour RGB+WarmWhite
asymmetric LED floodlight
(High Brightness)

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TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

Prolights measurement instrument

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

Please Note: All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

Prolights measurement software

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

13471 lm

Peak candela output:

8487 cd

Light quality:

CRI: 92,7

Color temperature:

5326 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

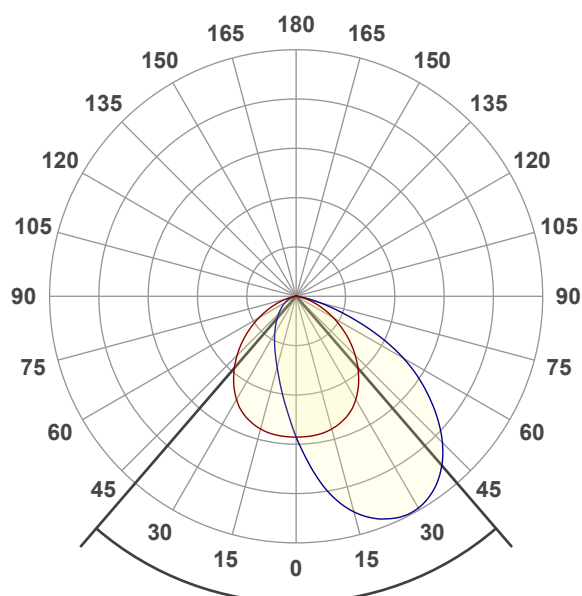
Full On HB

Operator:

Giuseppe della Peruta

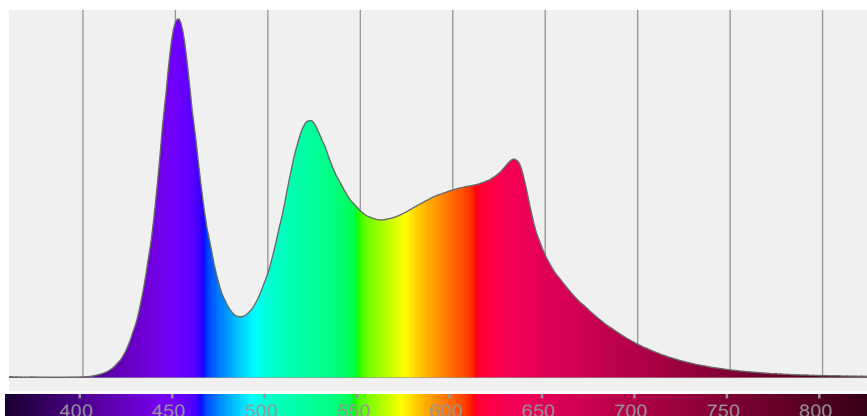
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04/09/2025 12:09:13

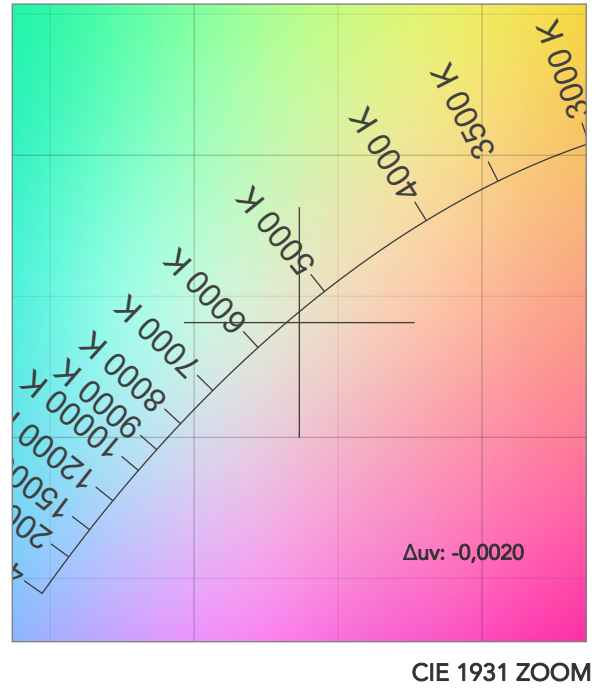
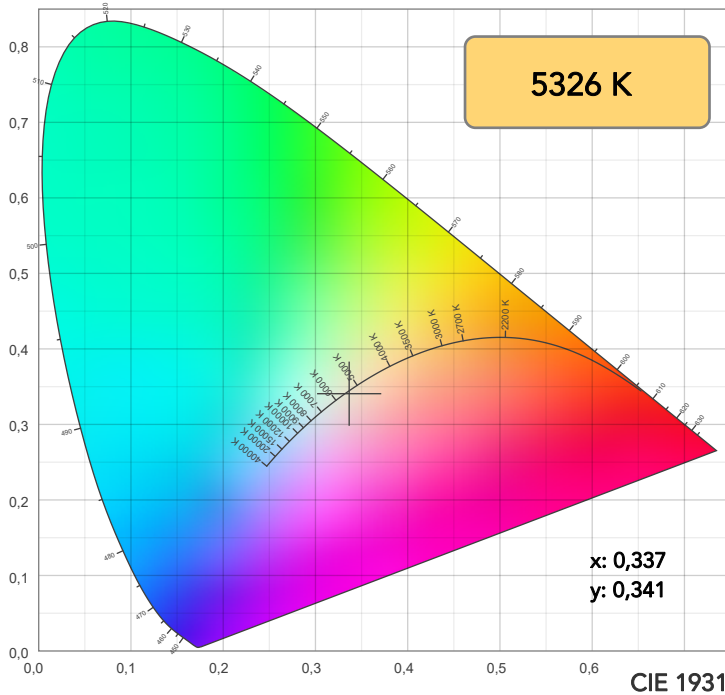


	Blue curve V	Red curve H
Beam angle 50%:	63,2°	99,7°
Field angle 10%:	120,3°	146°
Cut off angle 2.5%:	152,3°	162,2°

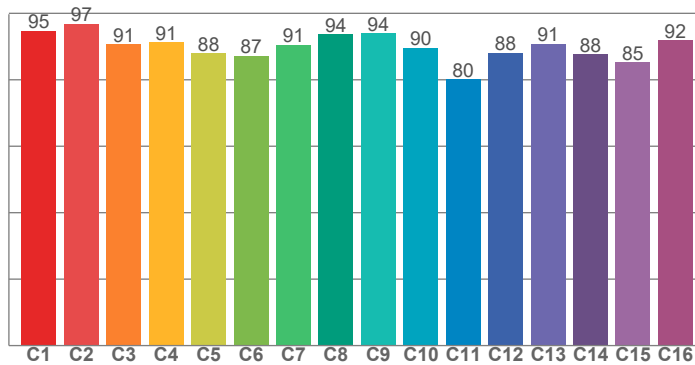
Spectra



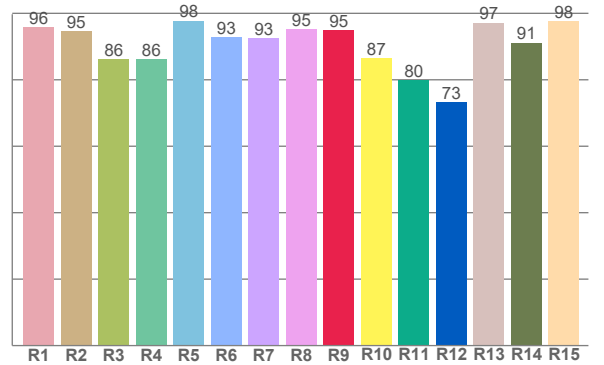
COLOR DETAILS



TM30: 89,9



CRI: 92,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,8	94,7	86,2	86,1	97,8	92,9	92,5	95,3	94,9	86,6	79,9	73,2	97,2	91,2	97,7

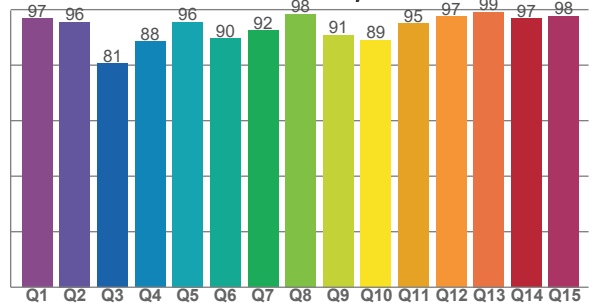
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,8	96,9	90,6	91,3	88,0	87,2	90,5	93,7	93,9	89,7	80,1	88,2	90,8	87,7	85,3	91,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,9	95,6	80,6	88,4	95,6	89,5	92,4	98,4	90,9	89,1	95,1	97,4	99,1	96,8	97,7

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
5326 K	92,7	94,9	89,9	106,1	91,9	89	0,337	0,341	-0,0020

TM30 DETAILS

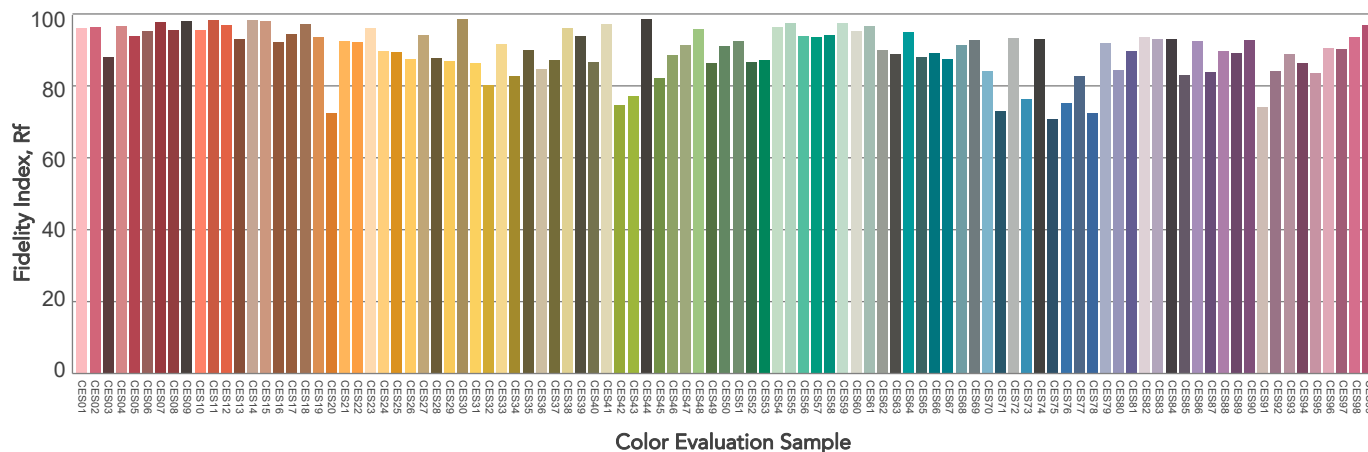
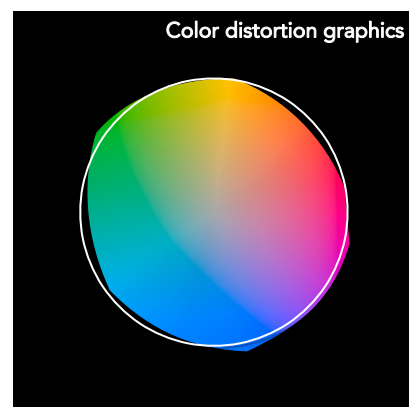
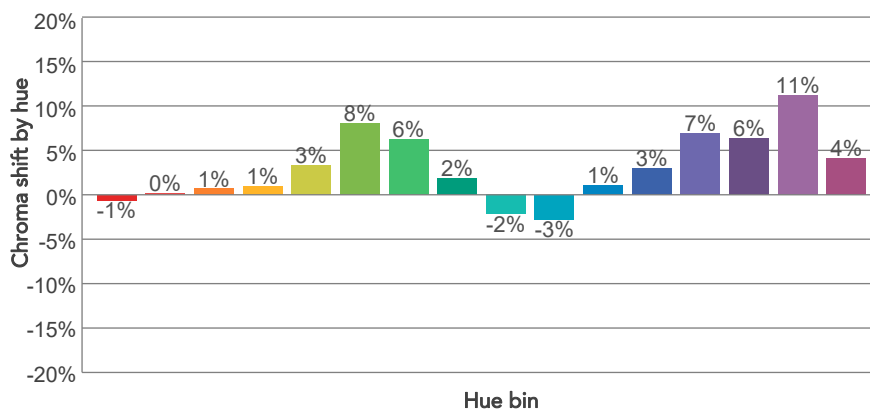
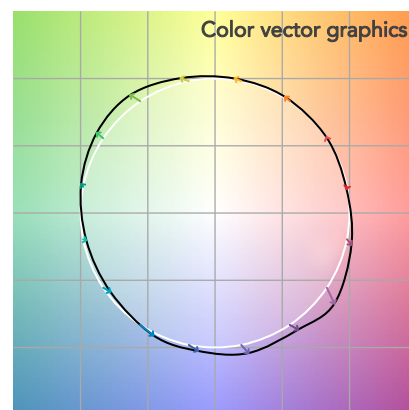
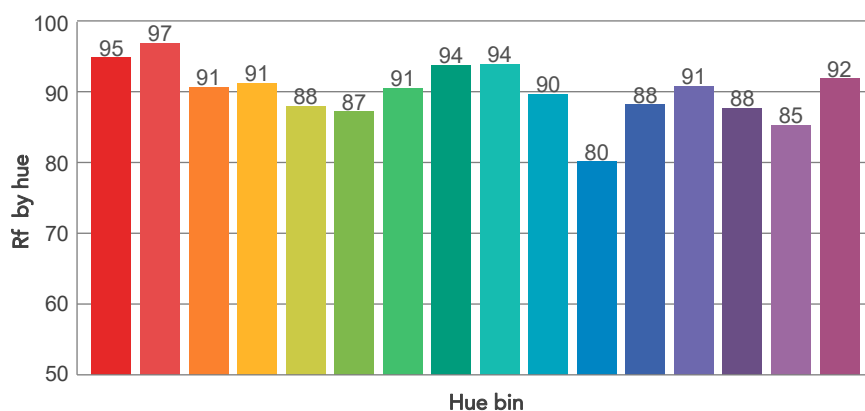
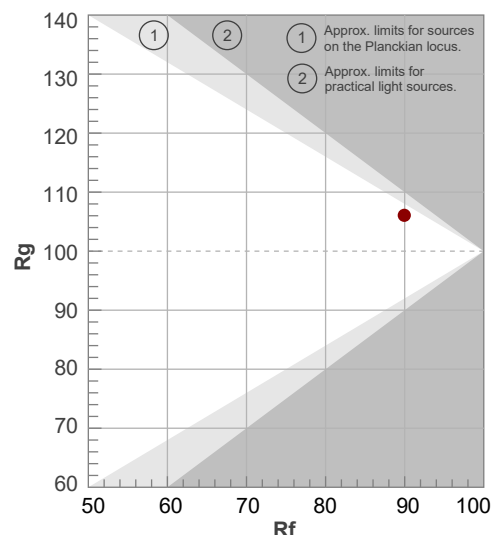
Rf 89,9

Fidelity index Rf

Rg 106,1

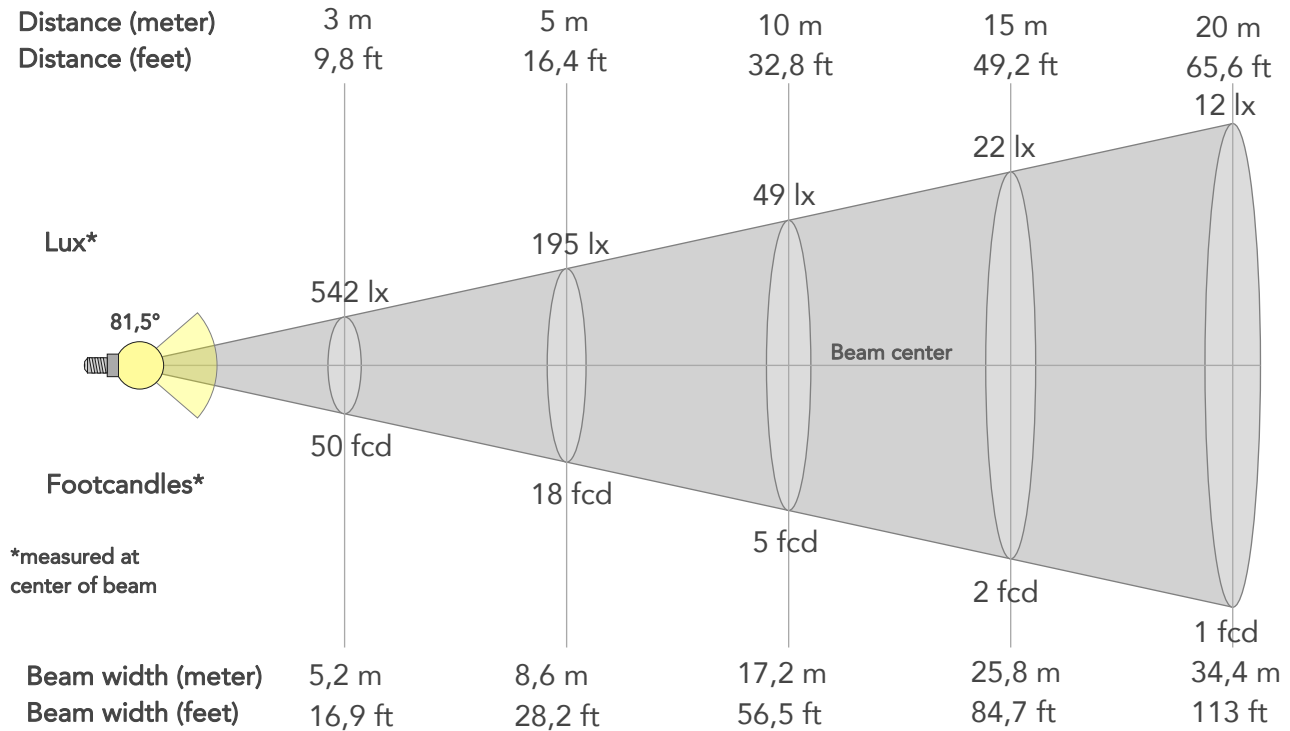
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-1%
2	97	0%	1%
3	91	1%	5%
4	91	1%	5%
5	88	3%	6%
6	87	8%	4%
7	91	6%	-1%
8	94	2%	-2%
9	94	-2%	1%
10	90	-3%	6%
11	80	1%	12%
12	88	3%	8%
13	91	7%	4%
14	88	6%	3%
15	85	11%	-7%
16	92	4%	-3%



BEAM DETAILS

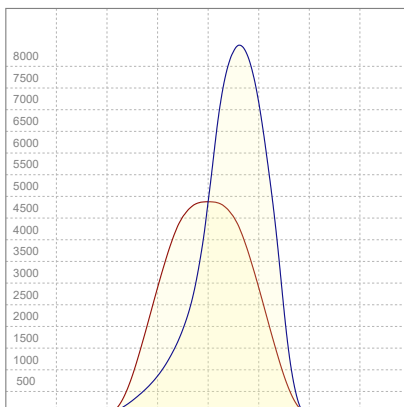
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,5°	133,1°	157,2°	85,9%	59,9%



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	4875lx	1219lx	542lx	305lx	195lx	87lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	453fcd	113fcd	50fcd	28fcd	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	34,4m	43,1m	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	169,5ft	226ft	282,5ft

LINEAR DISTRIBUTION DIAGRAM

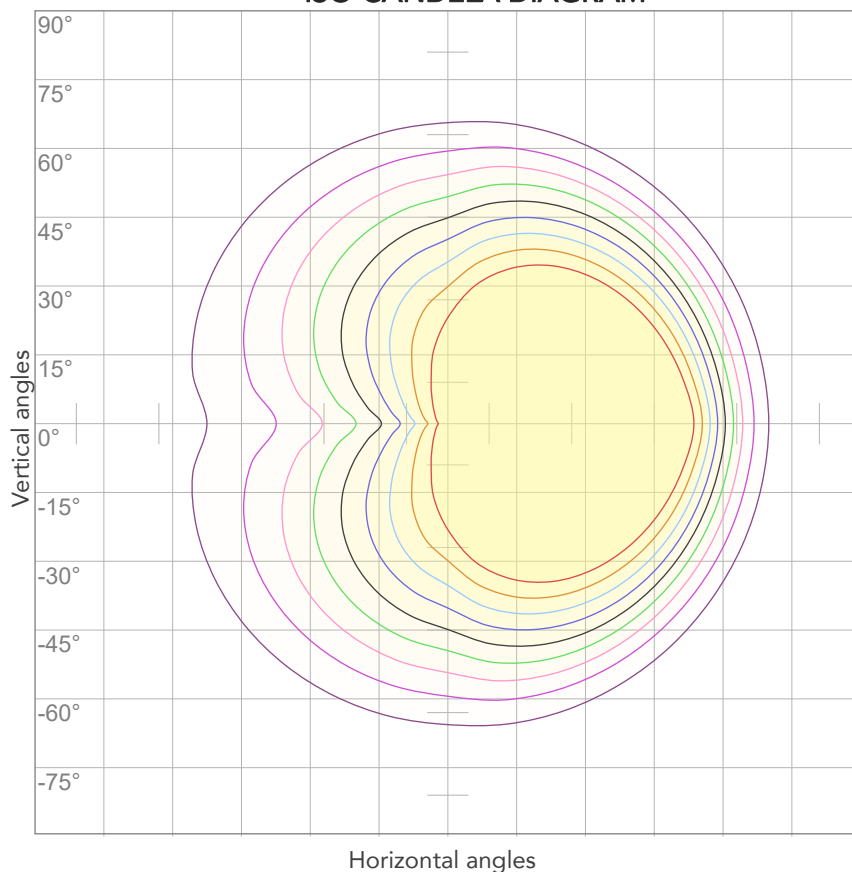


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,16A	248,1W	0,95	54lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



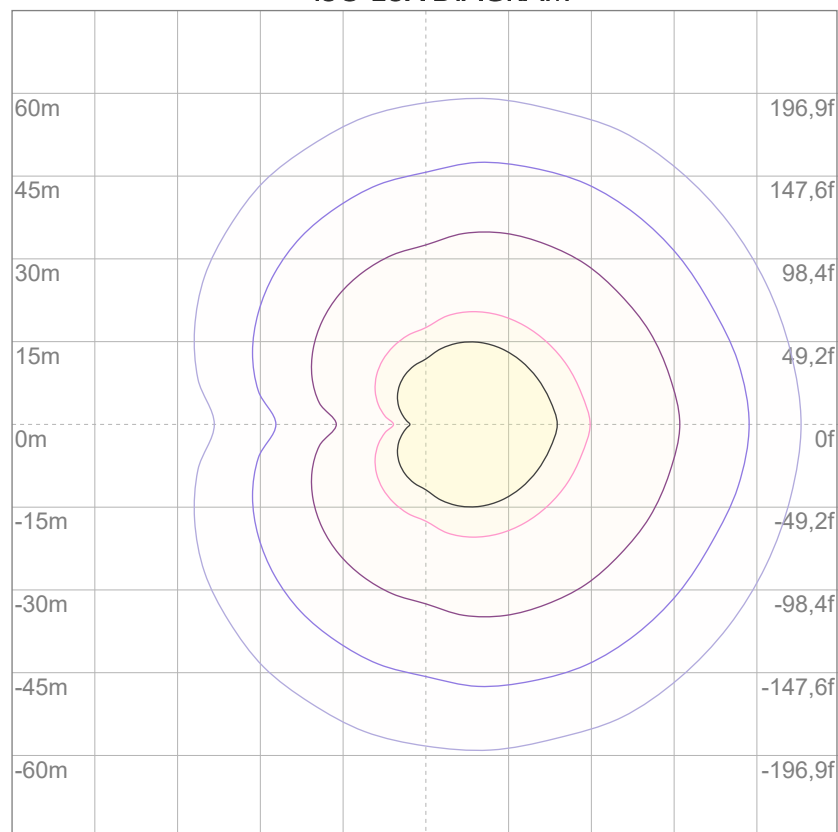
10%	488 cd
20%	975 cd
30%	1463 cd
40%	1950 cd
50%	2438 cd
60%	2925 cd
70%	3413 cd
80%	3900 cd

Conditions:

Number of c-planes: 4

Candela at center: 4875 cd

ISO LUX DIAGRAM



3%	1,46 lx
5%	2,44 lx
10%	4,88 lx
30%	14,6 lx
50%	24,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 48,8 lx

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



Total lumen output:

4291 lm

Peak candela output:

2875 cd

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

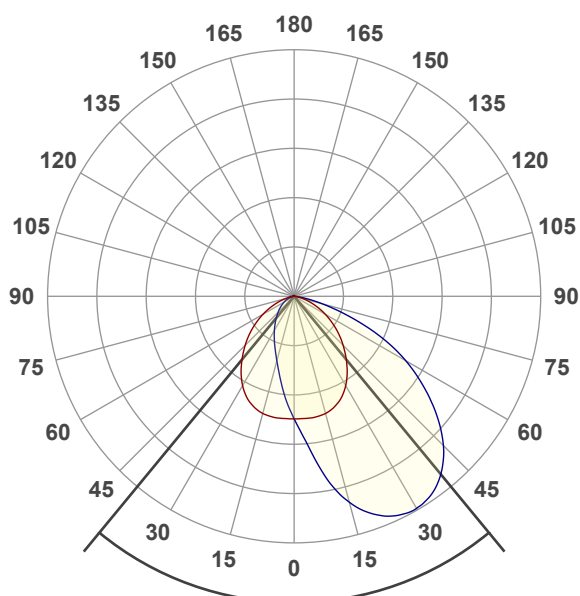
Red HB

Operator:

Giuseppe della Peruta

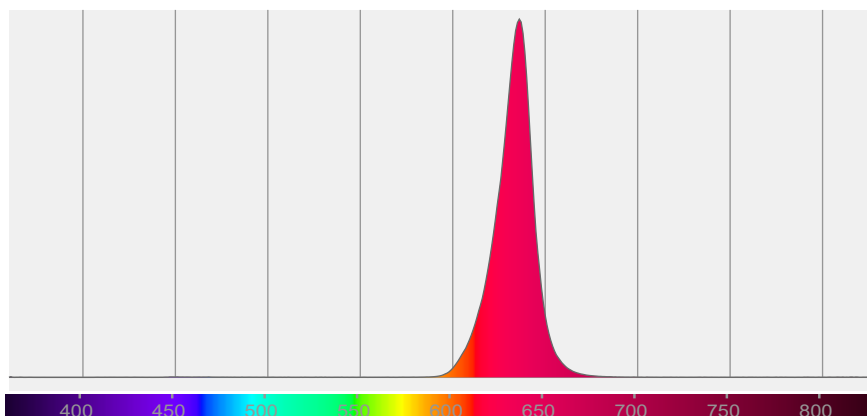
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04/09/2025 12:13:21



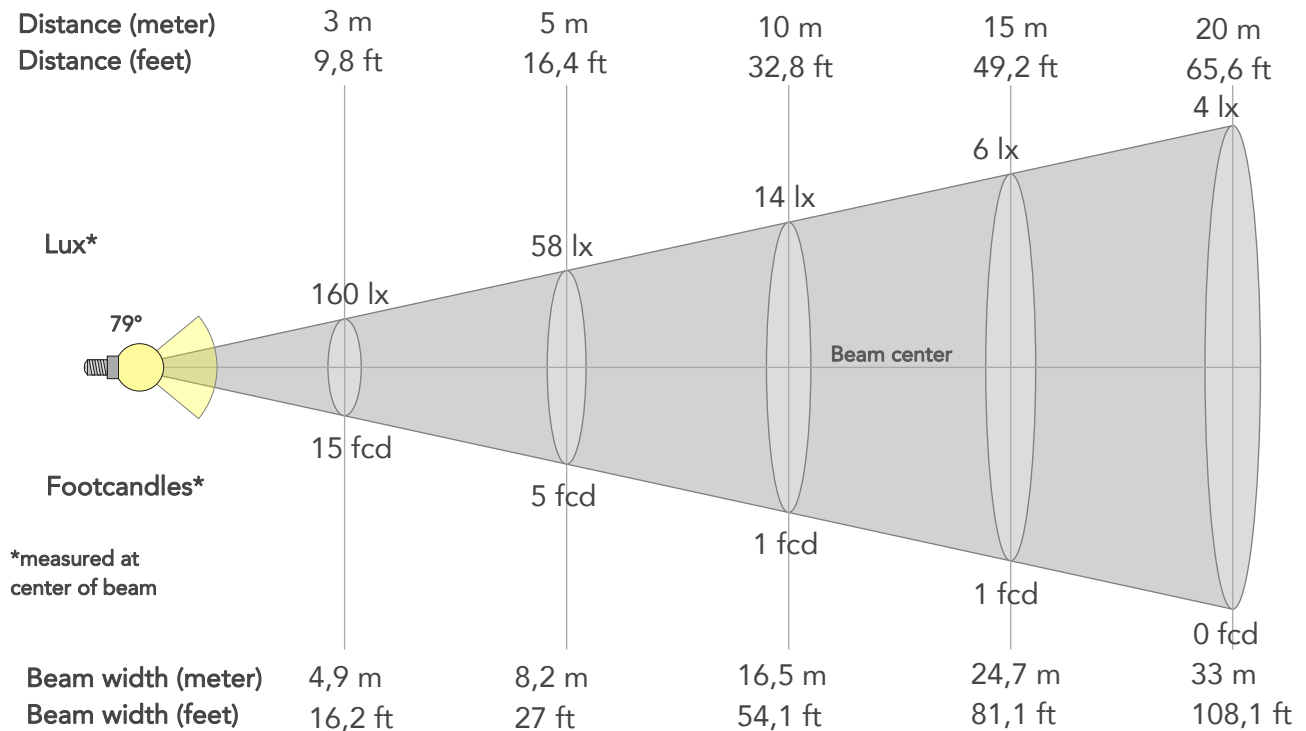
	Blue curve V	Red curve H
Beam angle 50%:	61°	96,9°
Field angle 10%:	119,2°	145,7°
Cut off angle 2.5%:	151,7°	162°

Spectra



BEAM DETAILS

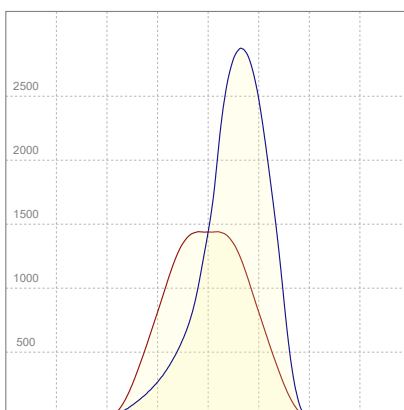
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
79°	132,5°	156,9°	84,9%	59,1%



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	1438lx	360lx	160lx	90lx	58lx	26lx	14lx	6lx	4lx	2lx	2lx	1lx	1lx
Footcand.	134fcd	33fcd	15fcd	8fcd	5fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,3m	4,9m	6,6m	8,2m	12,4m	16,5m	24,7m	33m	41,2m	49,4m	65,9m	82,4m
Beam wid.	5,4ft	10,9ft	16,2ft	21,6ft	27ft	40,5ft	54,1ft	81,1ft	108,1ft	135,1ft	162,2ft	216,2ft	270,3ft

LINEAR DISTRIBUTION DIAGRAM

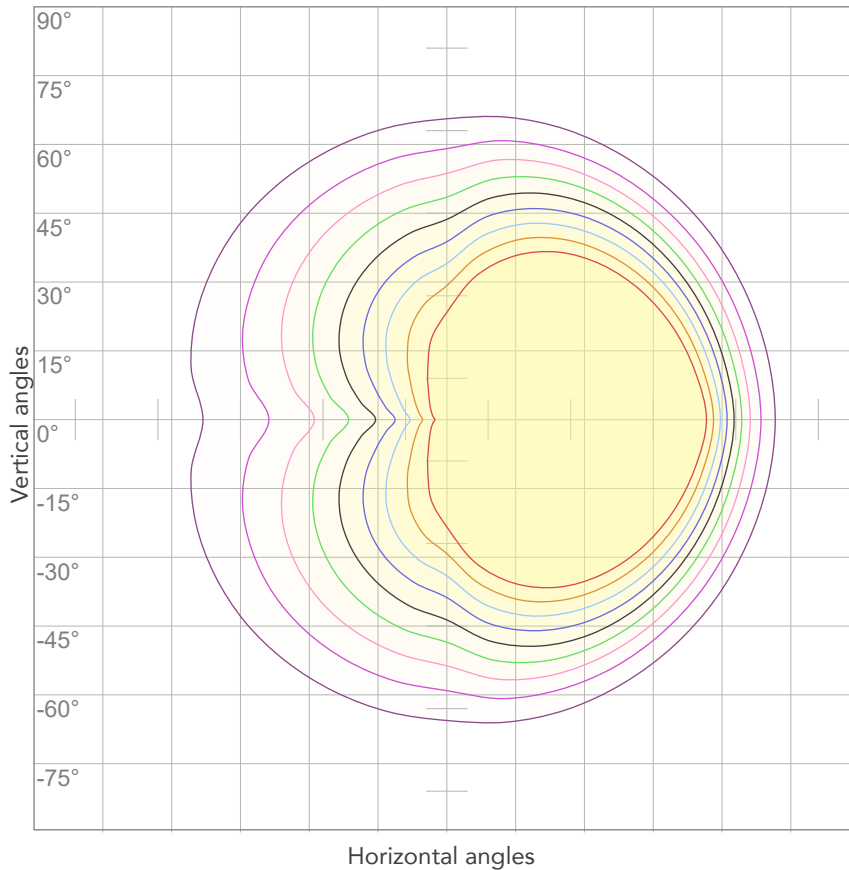


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,756A	153,2W	0,89	28lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



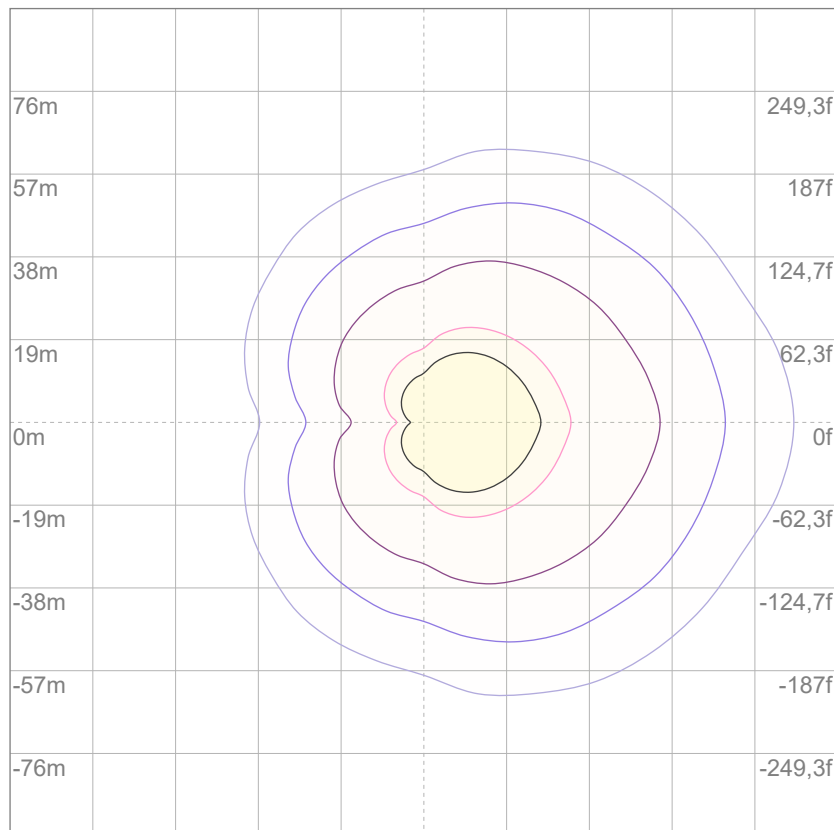
10%	144 cd
20%	288 cd
30%	431 cd
40%	575 cd
50%	719 cd
60%	863 cd
70%	1007 cd
80%	1151 cd

Conditions:

Number of c-planes: 4

Candela at center: 1438 cd

ISO LUX DIAGRAM



3%	0,431 lx
5%	0,719 lx
10%	1,44 lx
30%	4,31 lx
50%	7,19 lx

Conditions:

Number of c-planes: 4

Lux at center: 14,4 lx

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



Total lumen output:

8358 lm

Peak candela output:

5514 cd

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

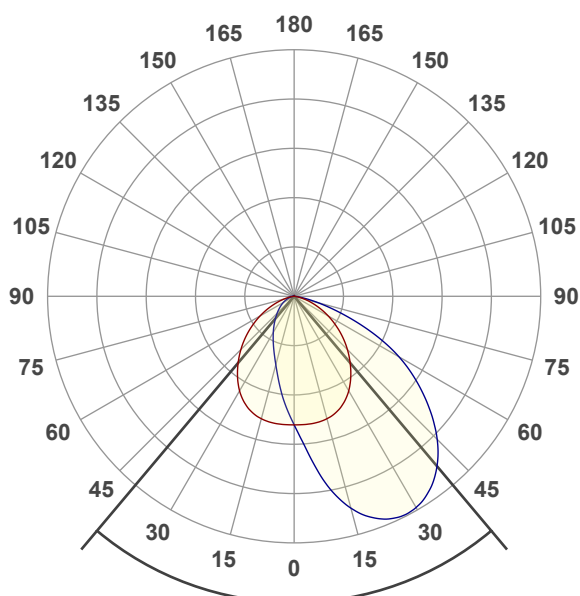
Green HB

Operator:

Giuseppe della Peruta

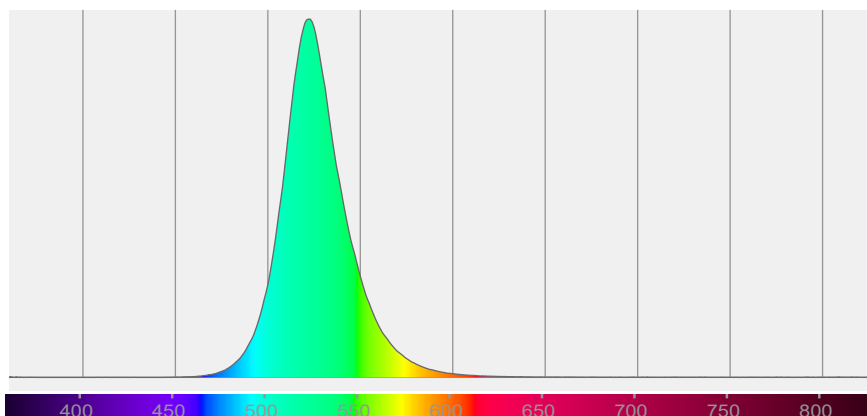
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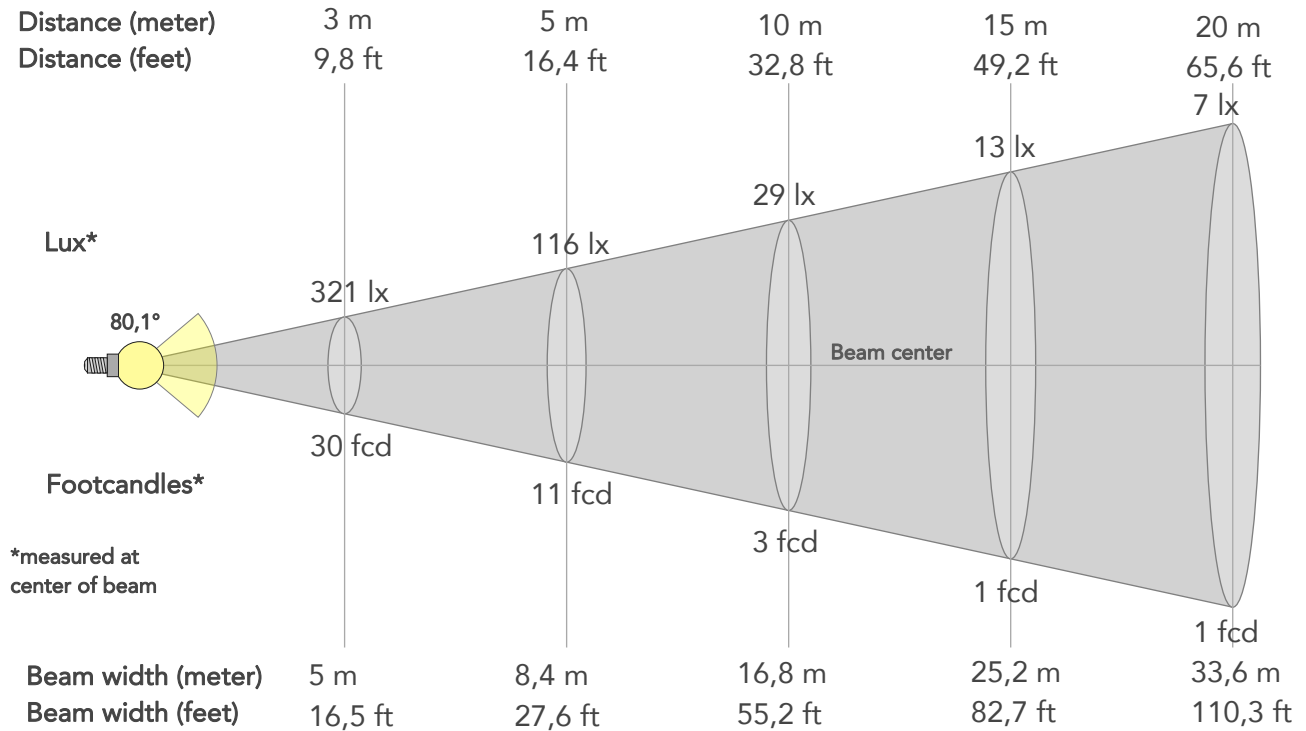
	Blue curve V	Red curve H
Beam angle 50%:	61,1°	99,1°
Field angle 10%:	119,6°	146,4°
Cut off angle 2.5%:	152,1°	162,4°

Spectra



BEAM DETAILS

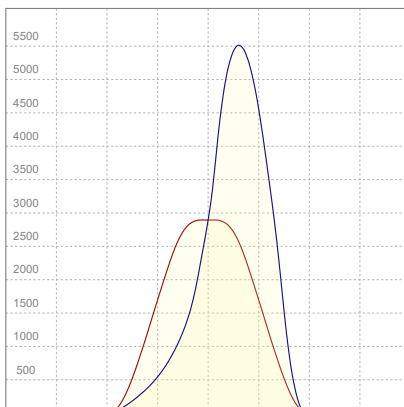
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
80,1°	133°	157,2°	85,5%	59,8%



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	2893lx	723lx	321lx	181lx	116lx	51lx	29lx	13lx	7lx	5lx	3lx	2lx	1lx
Footcand.	269fcd	67fcd	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

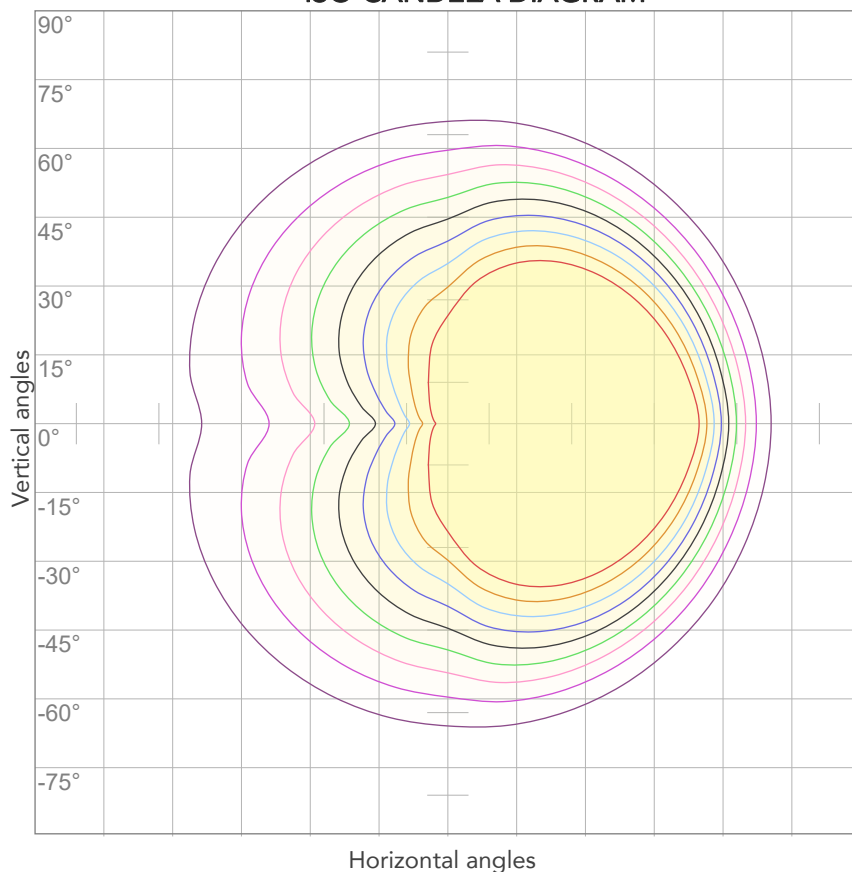


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,831A	167,4W	0,89	50lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



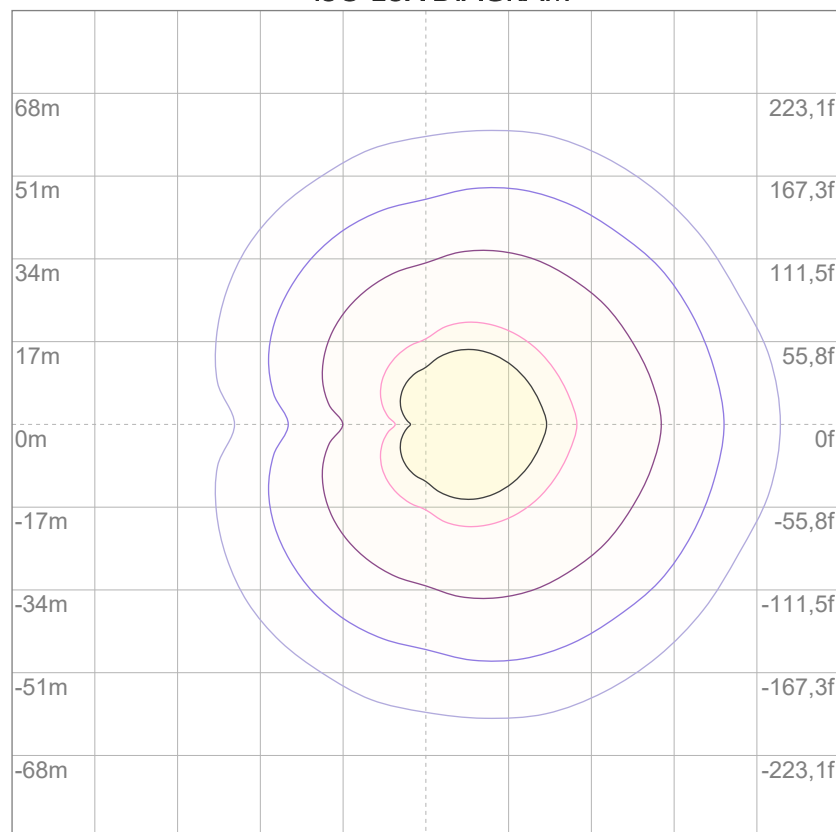
10%	289 cd
20%	579 cd
30%	868 cd
40%	1157 cd
50%	1447 cd
60%	1736 cd
70%	2025 cd
80%	2314 cd

Conditions:

Number of c-planes: 4

Candela at center: 2893 cd

ISO LUX DIAGRAM



3%	0,868 lx
5%	1,45 lx
10%	2,89 lx
30%	8,68 lx
50%	14,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 28,9 lx

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



Total lumen output:

1888 lm

Peak candela output:

1207 cd

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

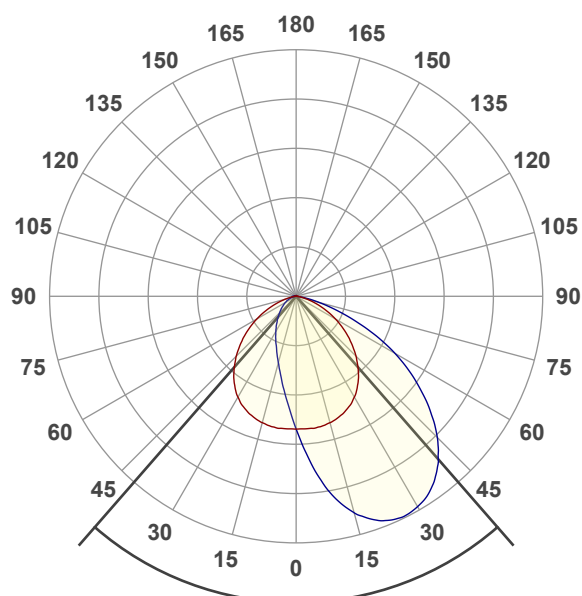
Blue HB

Operator:

Giuseppe della Peruta

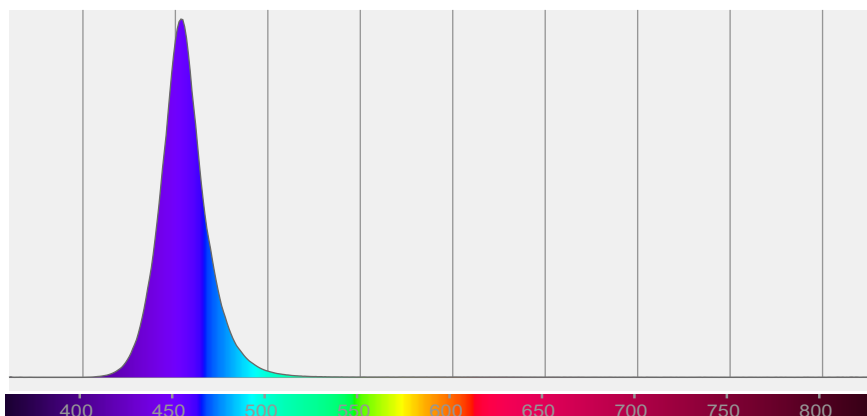
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04/09/2025 12:21:00



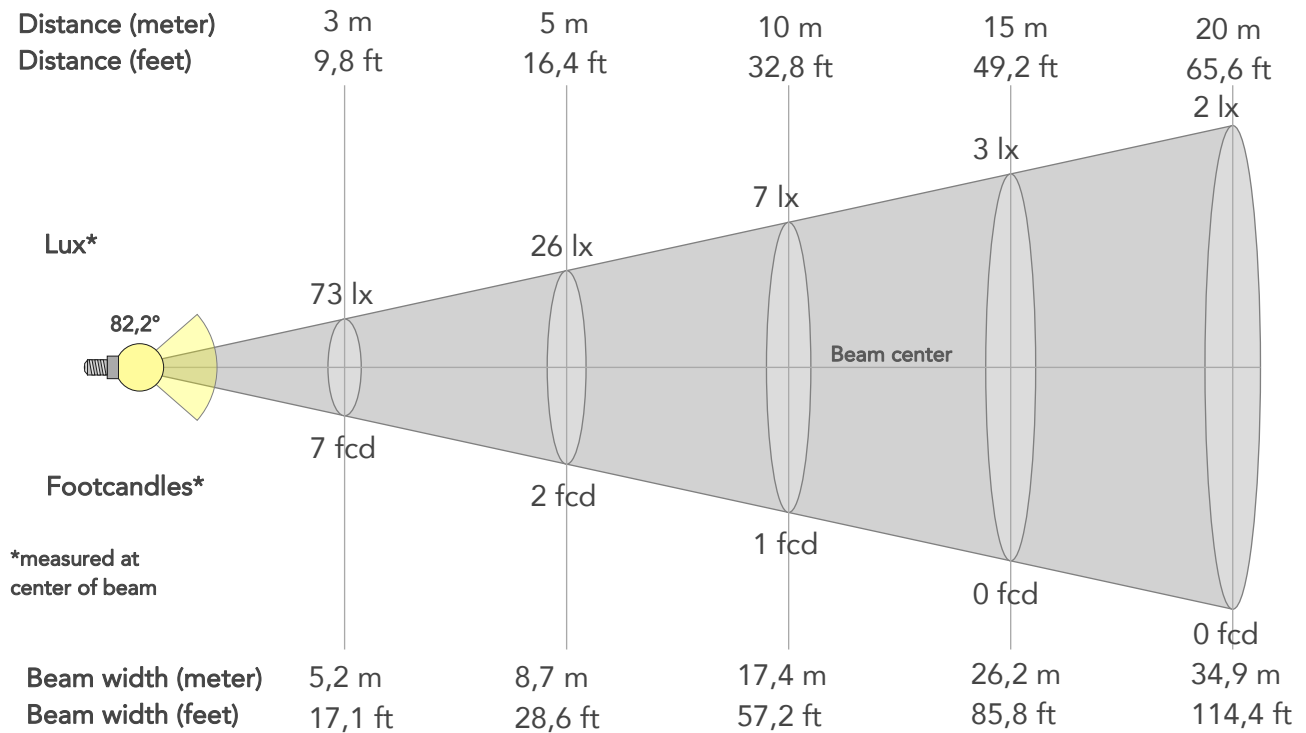
	Blue curve V	Red curve H
Beam angle 50%:	60,3°	104°
Field angle 10%:	118,7°	147,8°
Cut off angle 2.5%:	152,4°	163,4°

Spectra



BEAM DETAILS

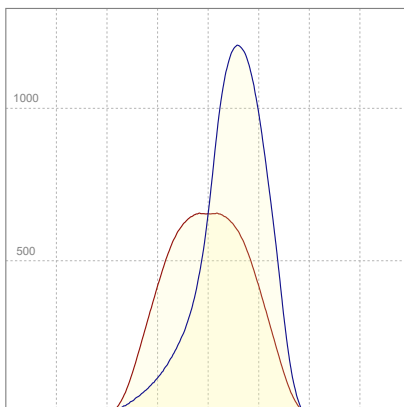
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
82,2°	133,3°	157,9°	85,3%	59,6%



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	654lx	164lx	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	7m	8,7m	13,1m	17,4m	26,2m	34,9m	43,6m	52,3m	69,8m	87,2m
Beam wid.	5,8ft	11,5ft	17,1ft	22,8ft	28,6ft	42,9ft	57,2ft	85,8ft	114,4ft	143ft	171,6ft	228,8ft	286,1ft

LINEAR DISTRIBUTION DIAGRAM

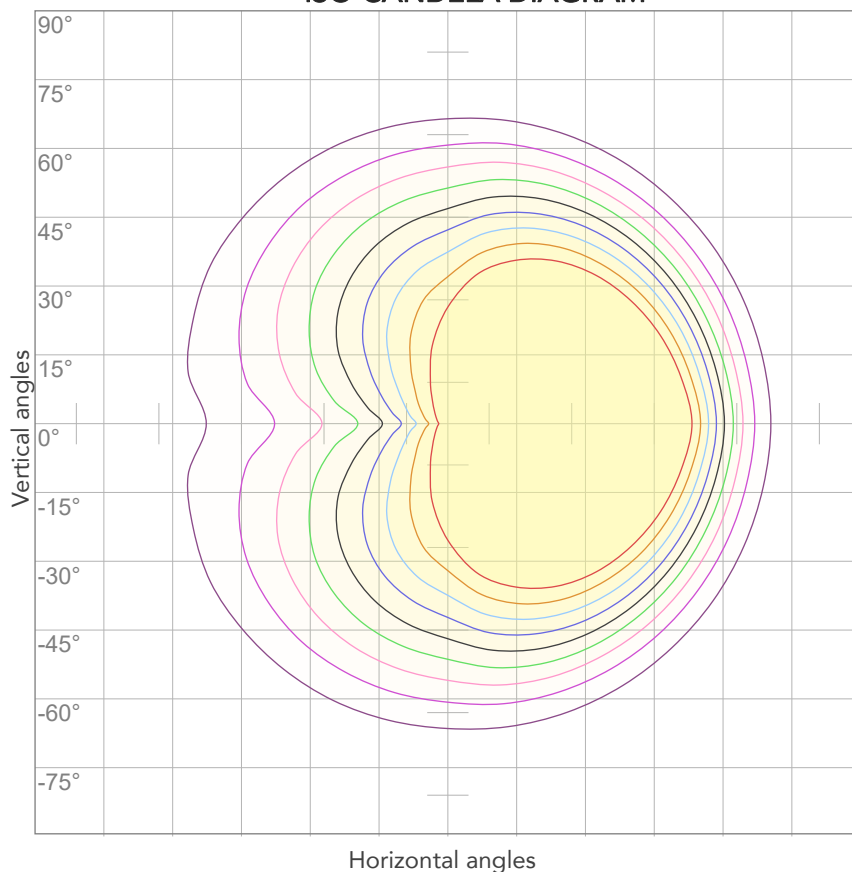


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,833A	168,7W	0,89	11lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



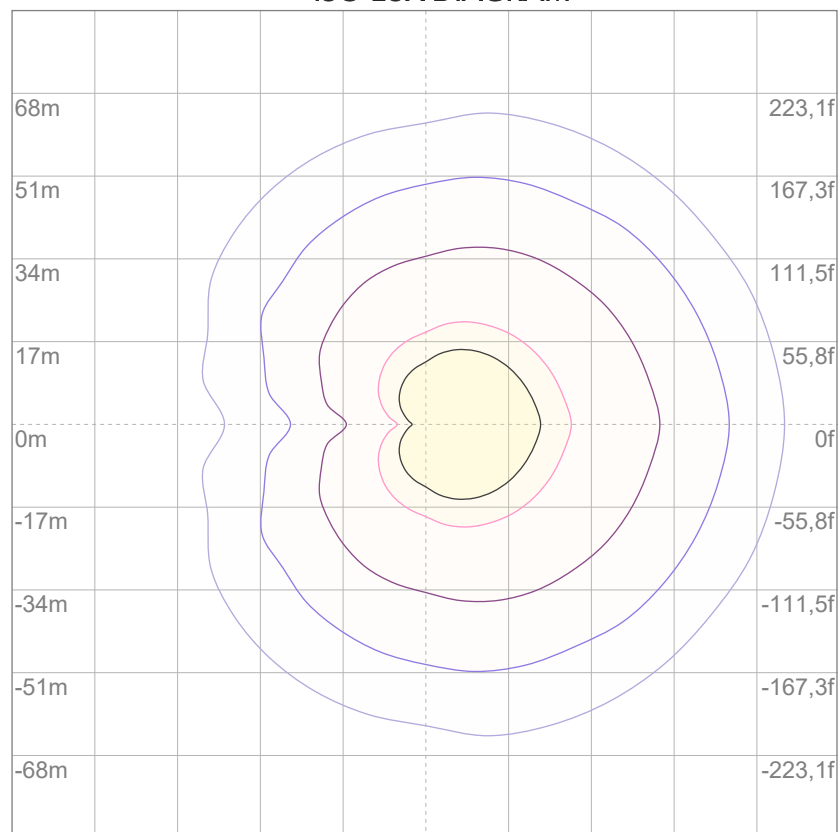
10%	65 cd
20%	131 cd
30%	196 cd
40%	262 cd
50%	327 cd
60%	392 cd
70%	458 cd
80%	523 cd

Conditions:

Number of c-planes: 4

Candela at center: 654 cd

ISO LUX DIAGRAM



3%	0,196 lx
5%	0,327 lx
10%	0,654 lx
30%	1,96 lx
50%	3,27 lx

Conditions:

Number of c-planes: 4

Lux at center: 6,54 lx

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



Total lumen output:

10393 lm

Peak candela output:

6415 cd

Light quality:

CRI: 82,2

Color temperature:

3136 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

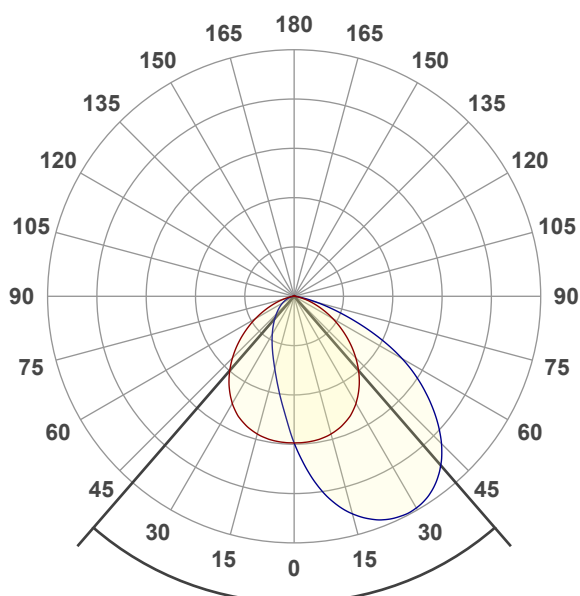
White HB

Operator:

Giuseppe della Peruta

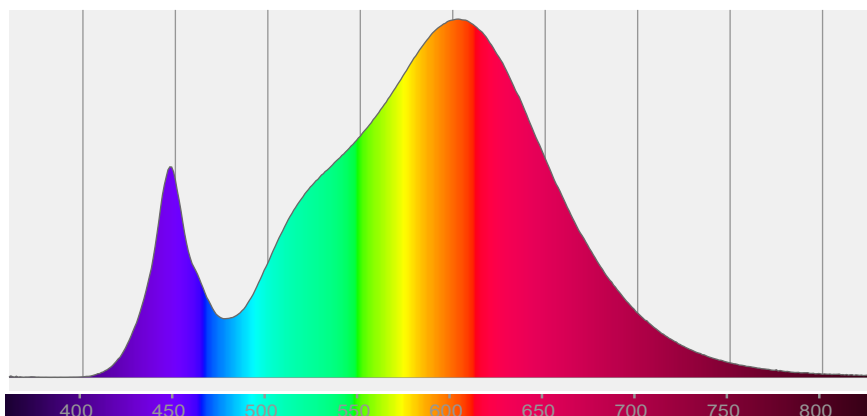
Date and time:

04/09/2025 12:25:19

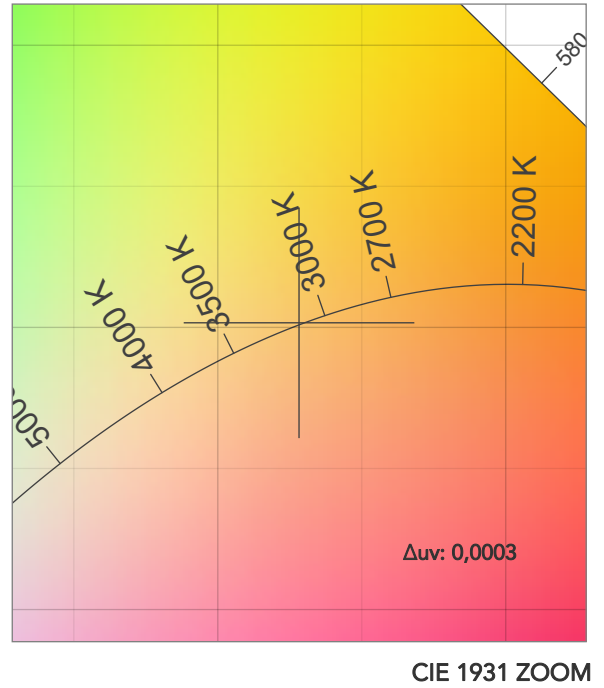
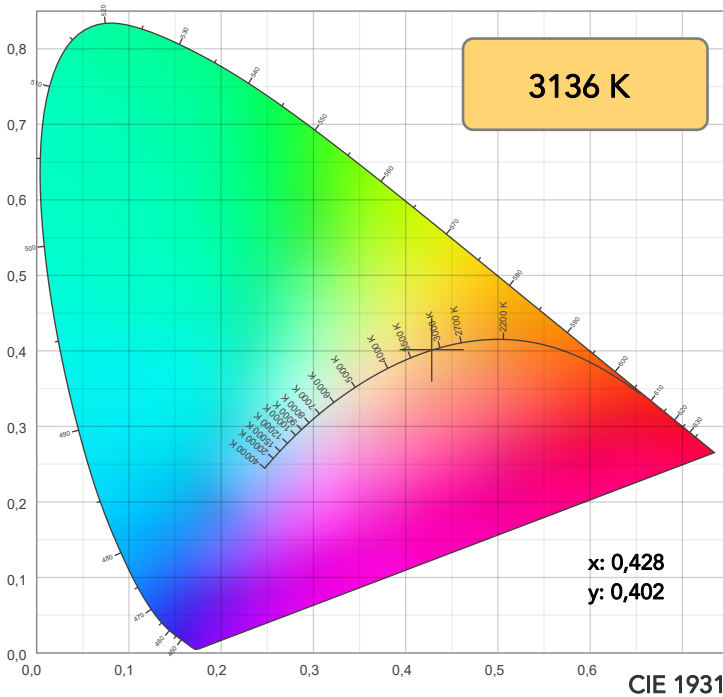


	Blue curve V	Red curve H
Beam angle 50%:	64°	99,8°
Field angle 10%:	120,7°	145,7°
Cut off angle 2.5%:	152,4°	162,1°

Spectra

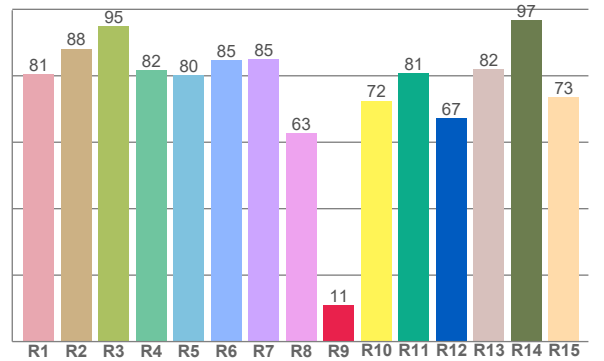
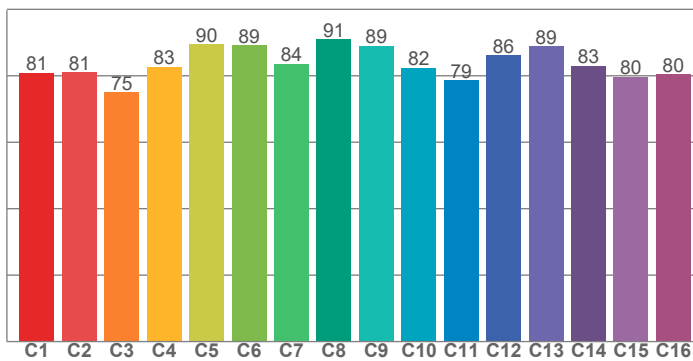


COLOR DETAILS



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	88,2	94,8	81,8	80,1	84,6	85,0	62,6	10,8	72,5	80,7	67,3	82,0	96,8	73,4

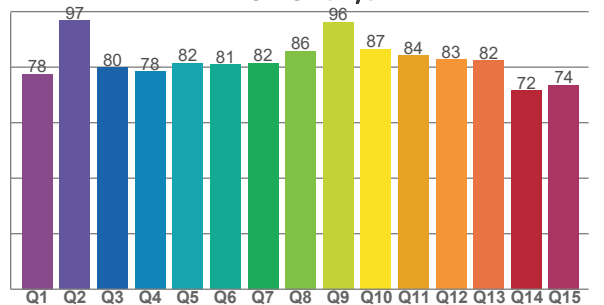
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,9	81,0	75,0	82,8	89,5	89,2	83,6	91,0	89,0	82,3	78,7	86,2	88,8	82,9	79,7	80,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77,6	96,9	79,8	78,5	81,6	81,0	81,5	85,8	96,3	86,6	84,2	82,8	82,5	71,6	73,6

CQS: 81,3



COLOR PARAMETERS

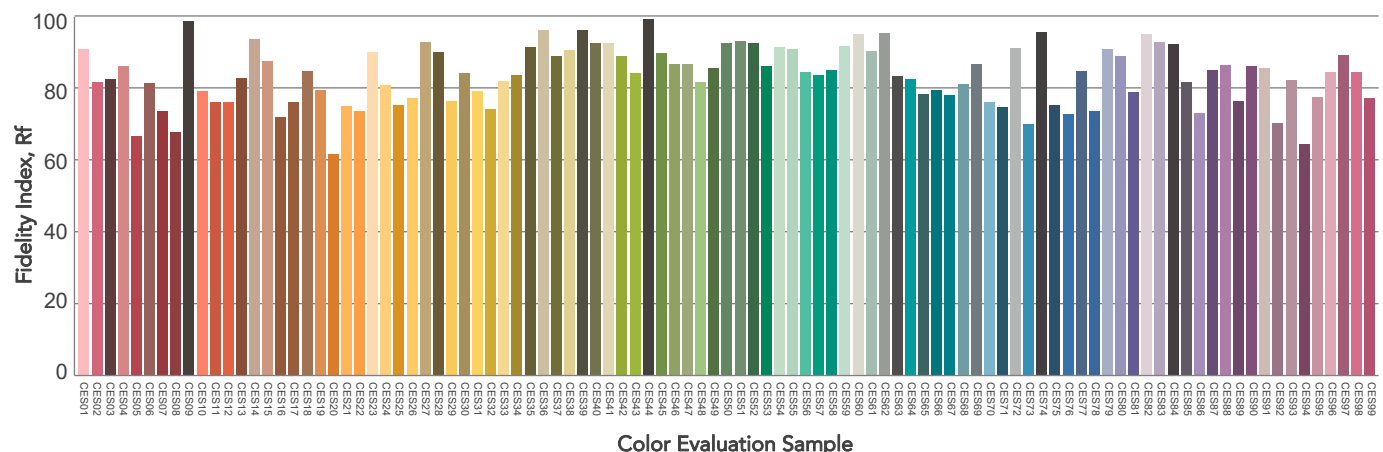
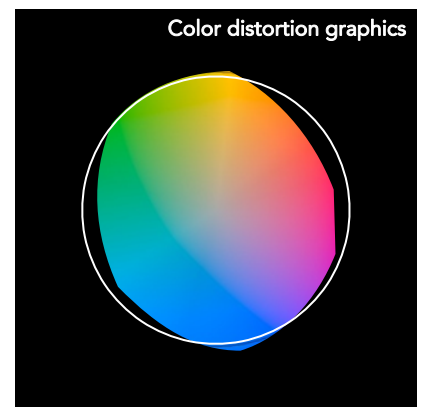
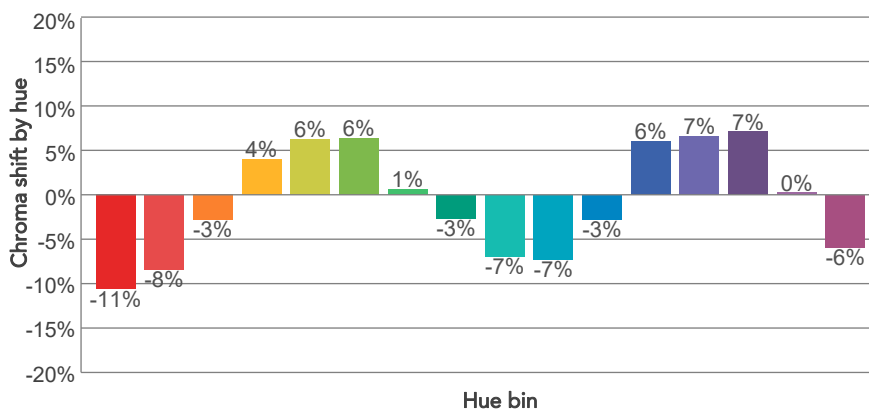
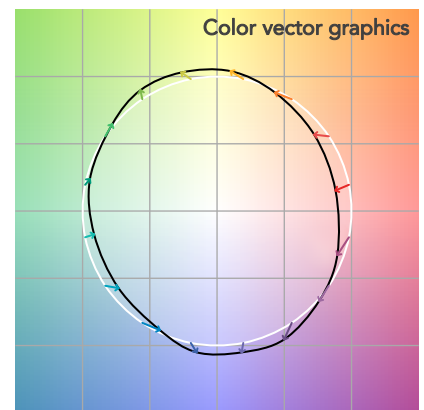
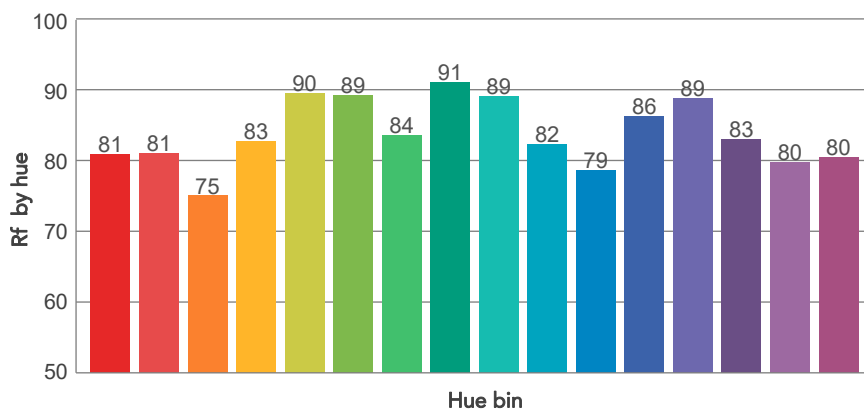
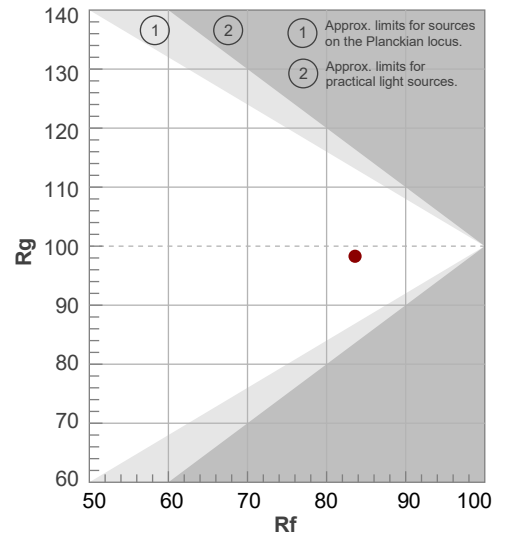
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3136 K	82,2	10,8	83,6	98,3	81,3	67	0,428	0,402	0,0003

TM30 DETAILS

Rf 83,6
Fidelity index Rf

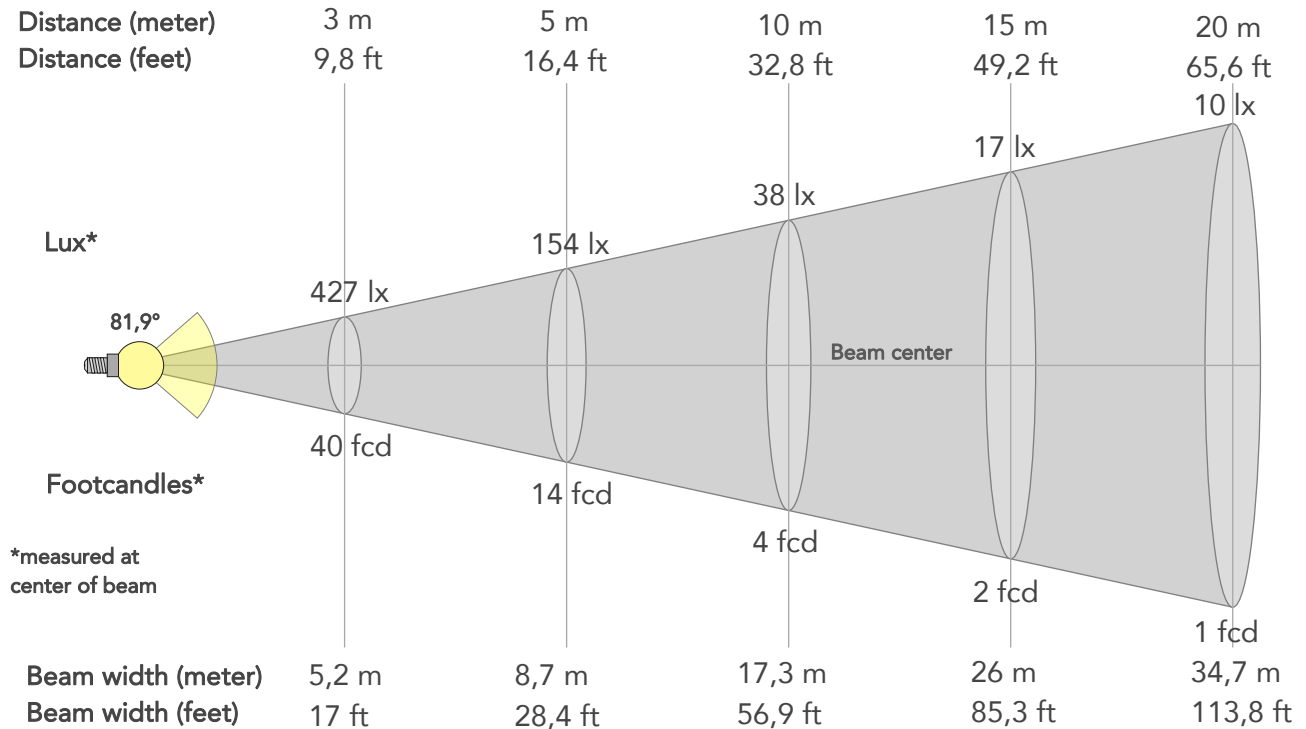
Rg 98,3
Gammut index

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	90	6%	6%
6	89	6%	-3%
7	84	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%	-3%
14	83	7%	-12%
15	80	0%	-13%
16	80	-6%	-15%



BEAM DETAILS

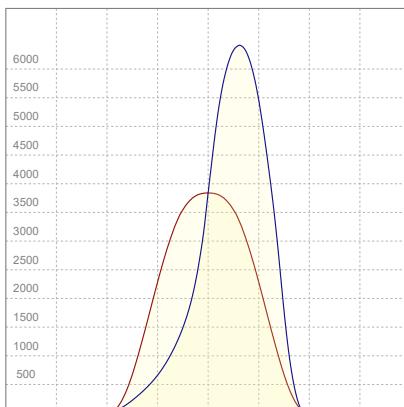
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,9°	133,2°	157,3°	86,0%	60,0%



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	3839lx	960lx	427lx	240lx	154lx	68lx	38lx	17lx	10lx	6lx	4lx	2lx	2lx
Footcand.	357fcd	89fcd	40fcd	22fcd	14fcd	6fcd	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

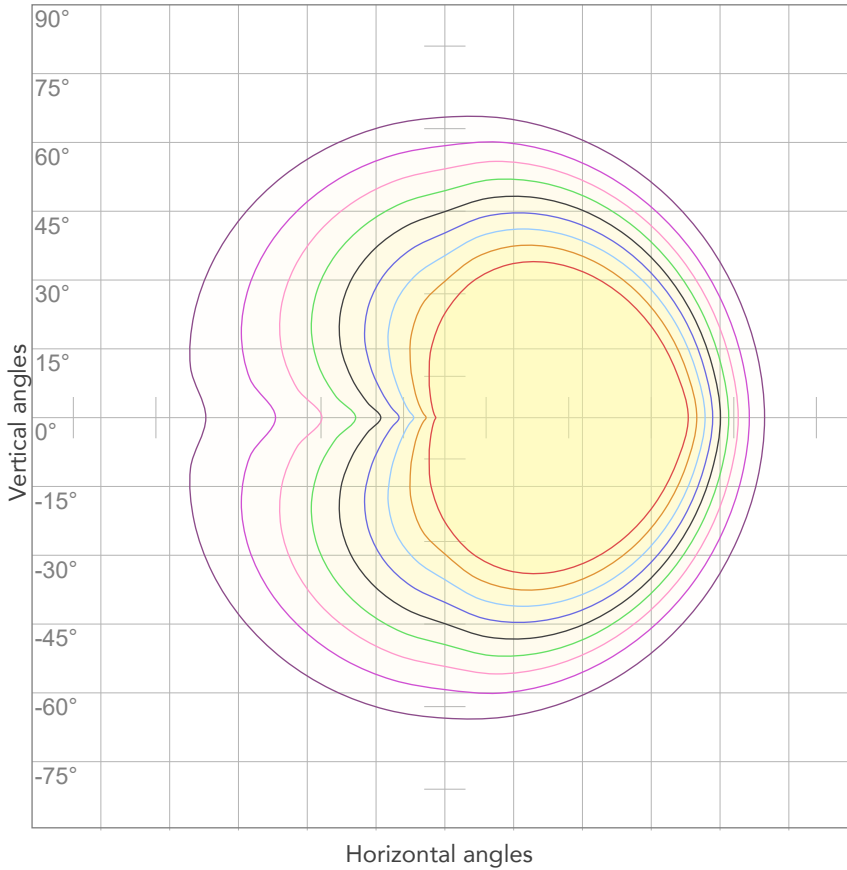


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,839A	170,1W	0,9	61lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



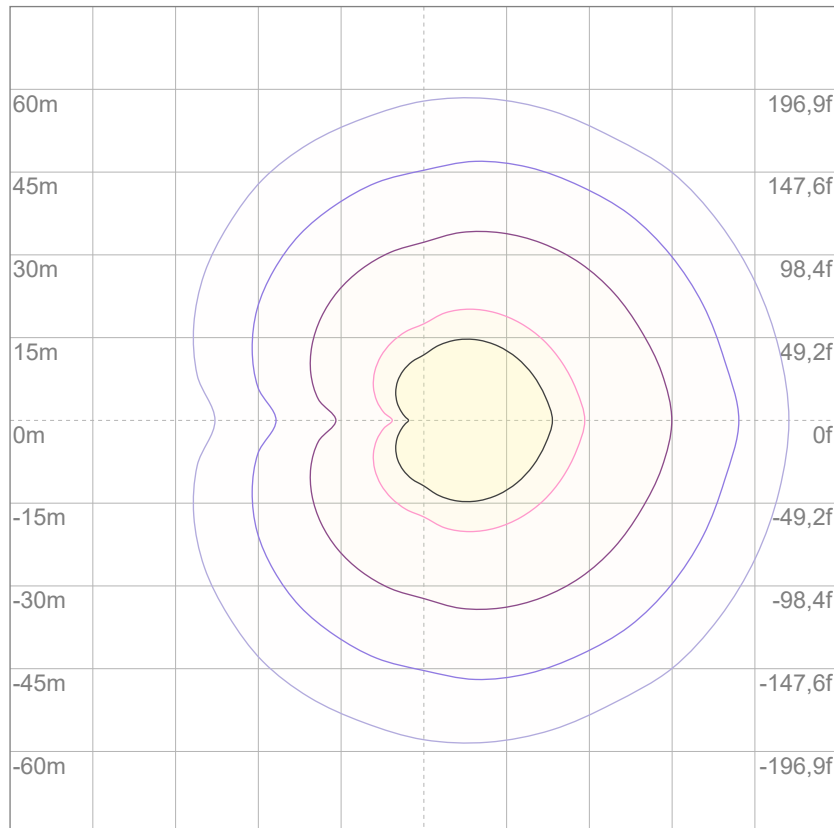
10%	384 cd
20%	768 cd
30%	1152 cd
40%	1536 cd
50%	1920 cd
60%	2304 cd
70%	2687 cd
80%	3071 cd

Conditions:

Number of c-planes: 4

Candela at center: 3839 cd

ISO LUX DIAGRAM



3%	1,15 lx
5%	1,92 lx
10%	3,84 lx
30%	11,5 lx
50%	19,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 38,4 lx

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



Total lumen output:

14827 lm

Peak candela output:

9379 cd

Light quality:

CRI: 80,4

Color temperature:

2863 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

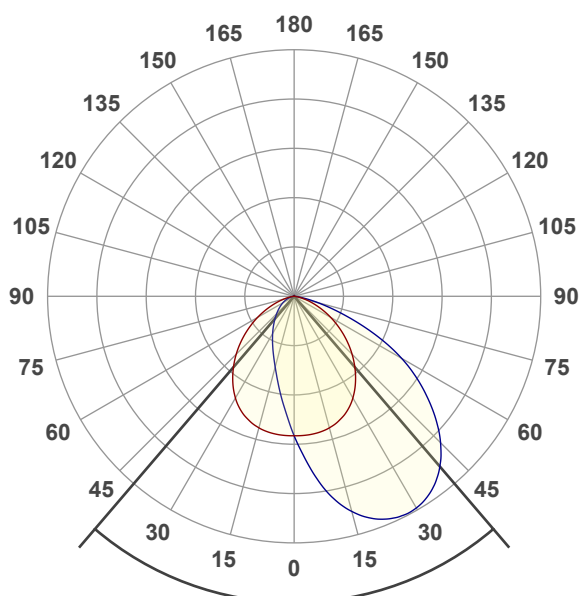
2800K HB

Operator:

Giuseppe della Peruta

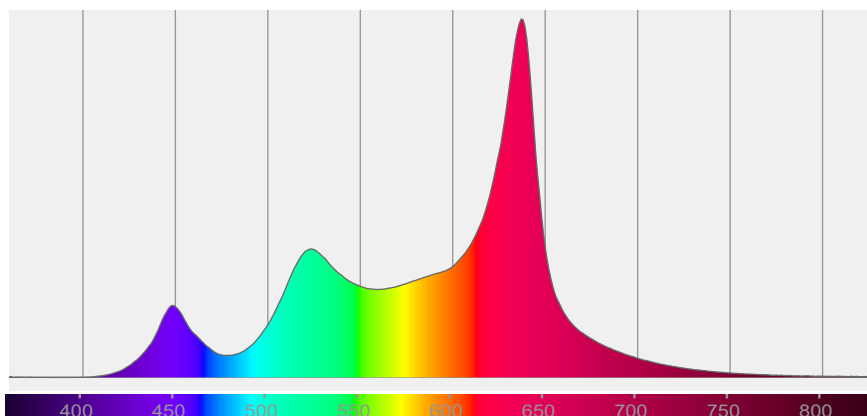
Date and time:

04/09/2025 12:36:58

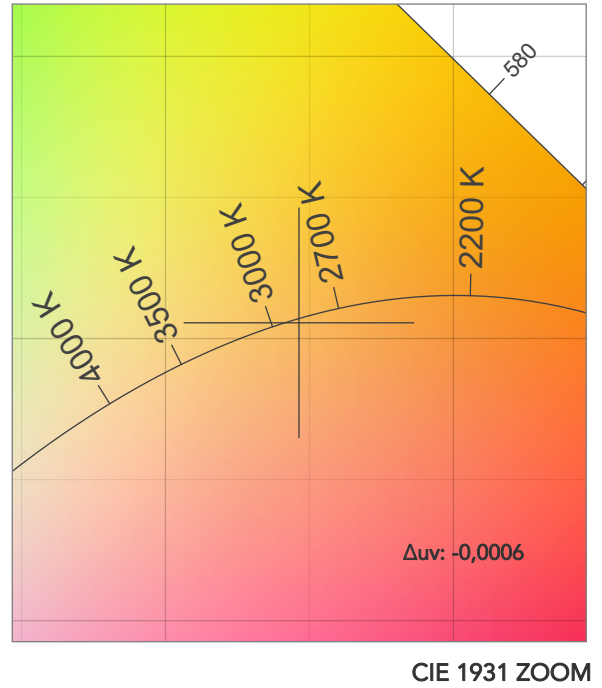
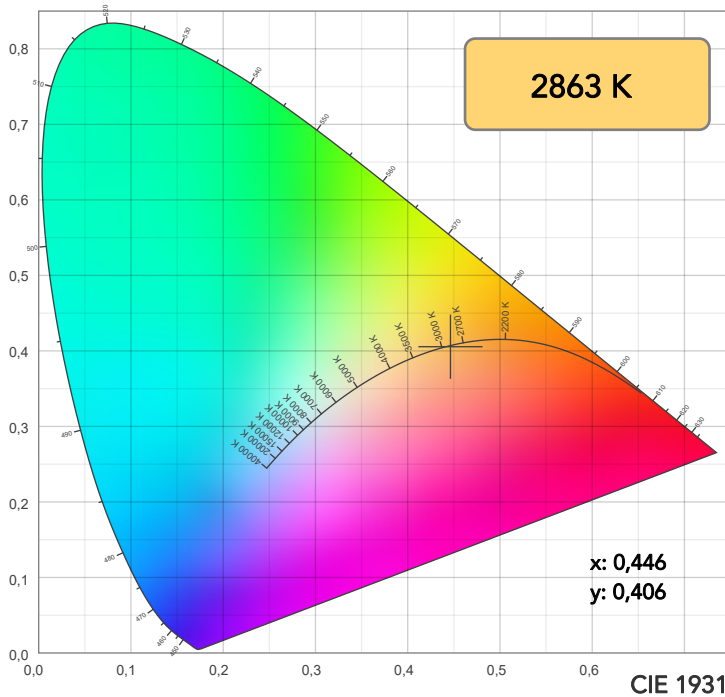


	Blue curve V	Red curve H
Beam angle 50%:	63,1°	99,1°
Field angle 10%:	120,4°	145,8°
Cut off angle 2.5%:	152,2°	162°

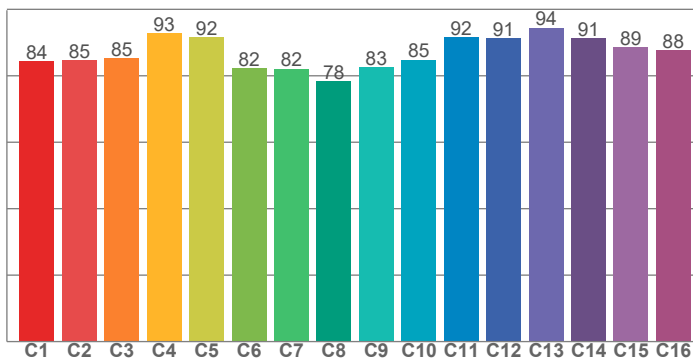
Spectra



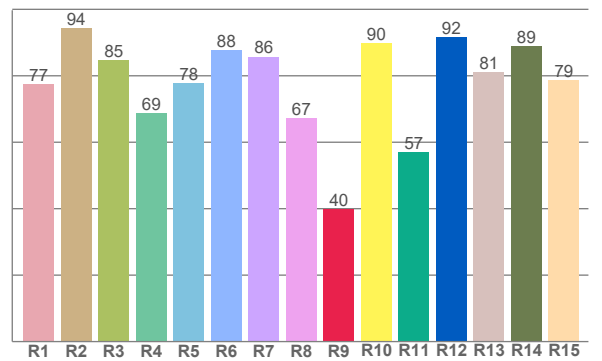
COLOR DETAILS



TM30: 87,4



CRI: 80,4 (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
77,4	94,3	84,8	68,7	77,7	87,7	85,7	67,3	40,0	89,8	56,9	91,5	81,1	89,0	78,6

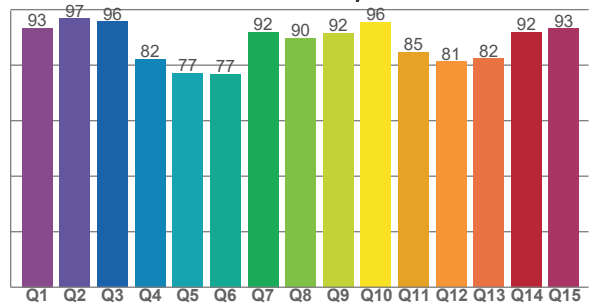
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84,4	84,7	85,2	92,7	91,6	82,3	82,1	78,3	82,6	84,8	91,6	91,2	94,5	91,4	88,6	87,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,4	96,7	95,8	82,3	77,1	76,9	92,0	89,8	91,6	95,6	84,8	81,3	82,4	91,9	93,3

CQS: 86,3



COLOR PARAMETERS

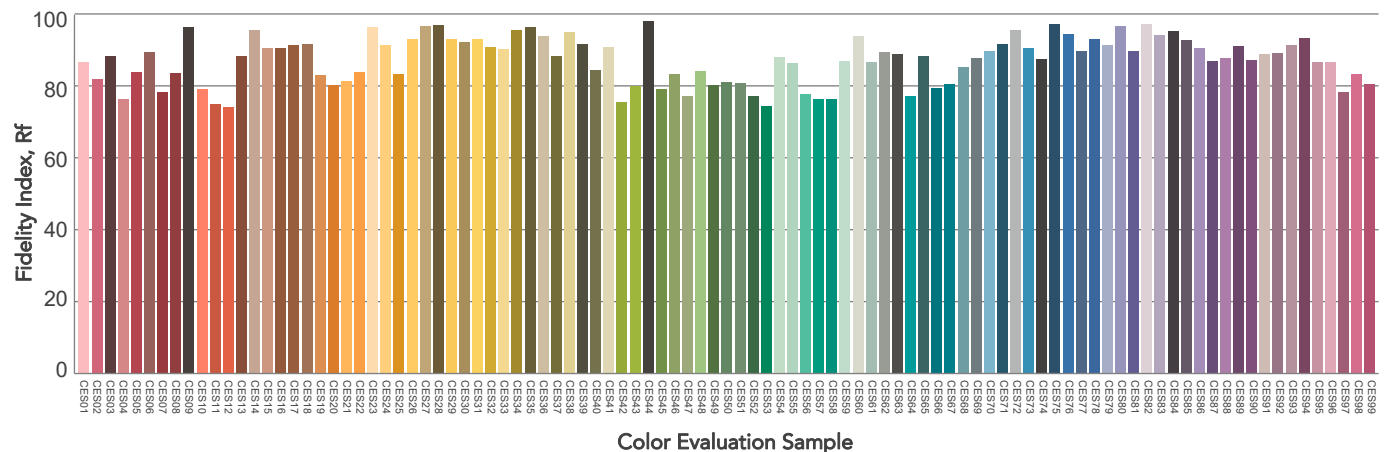
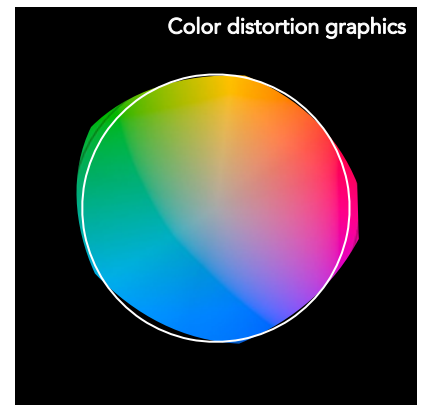
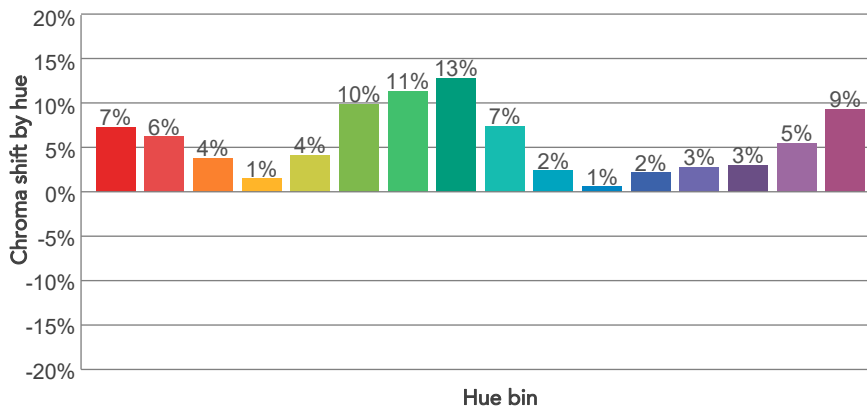
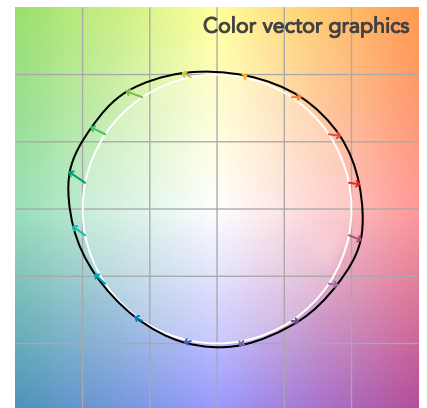
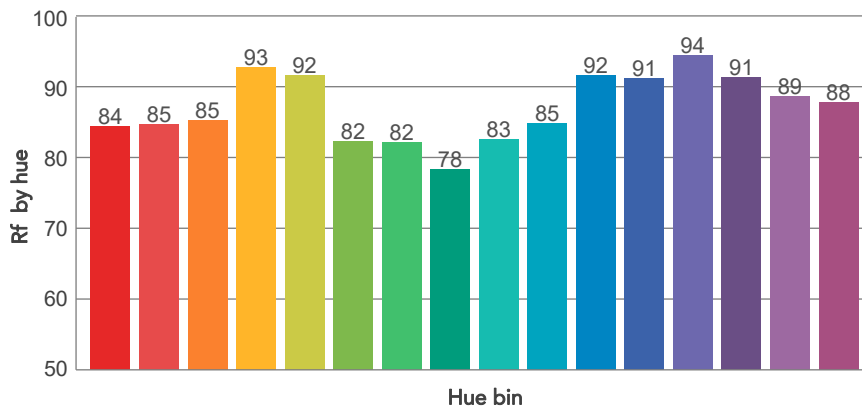
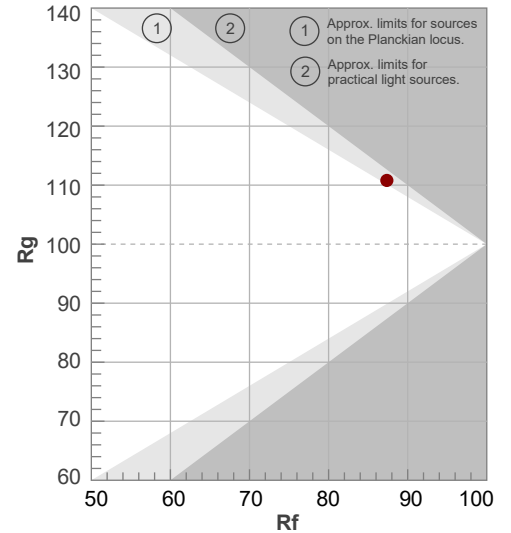
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2863 K	80,4	40,0	87,4	110,8	86,3	72	0,446	0,406	-0,0006

TM30 DETAILS

Rf 87,4
Fidelity index Rf

Rg 110,8
Gammut index

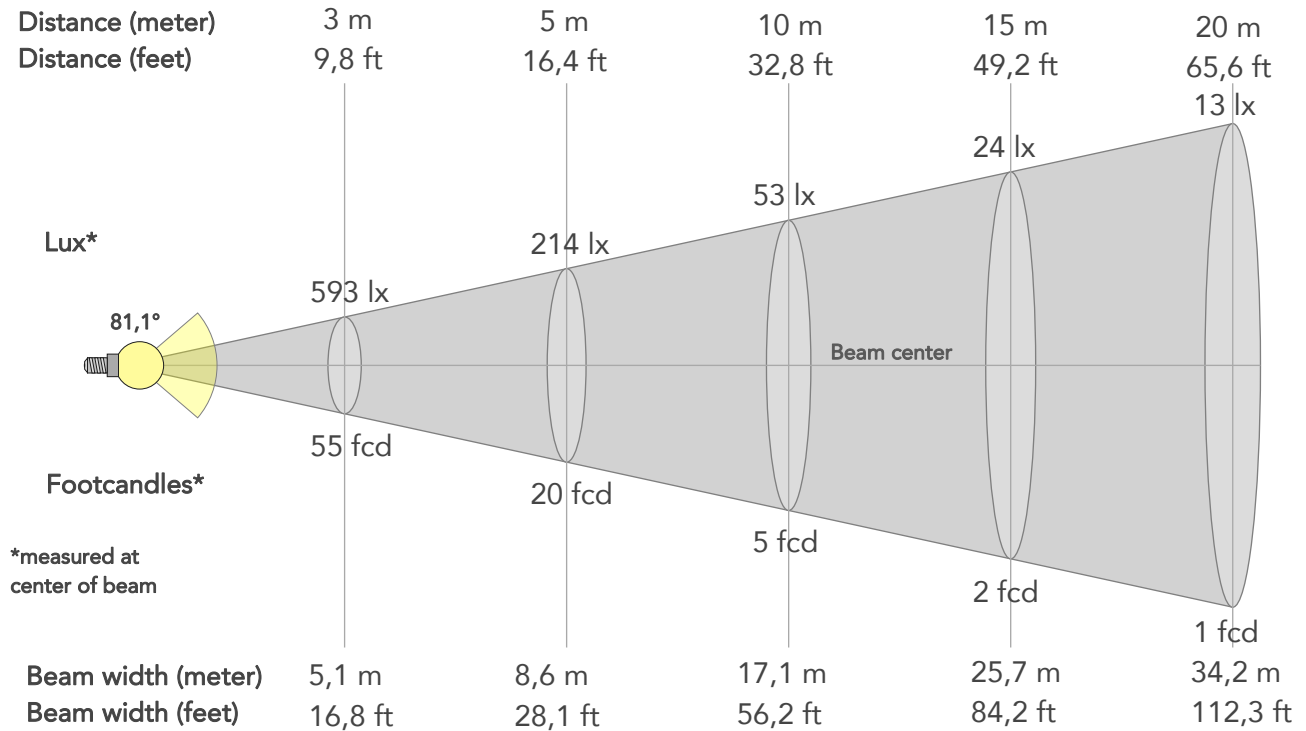
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	7%	-2%
2	85	6%	-5%
3	85	4%	-5%
4	93	1%	-2%
5	92	4%	5%
6	82	10%	7%
7	82	11%	1%
8	78	13%	-5%
9	83	7%	-8%
10	85	2%	-10%
11	92	1%	-6%
12	91	2%	-4%
13	94	3%	-3%
14	91	3%	4%
15	89	5%	3%
16	88	9%	-2%



BEAM DETAILS



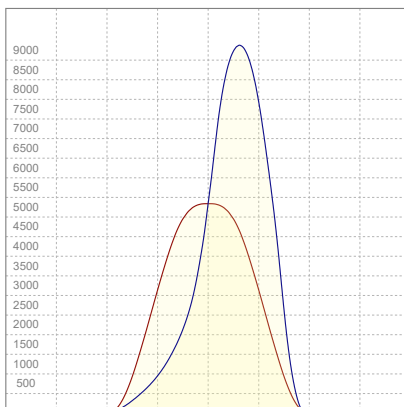
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,1°	133,1°	157,1°	85,6%	59,8%



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	5338lx	1335lx	593lx	334lx	214lx	95lx	53lx	24lx	13lx	9lx	6lx	3lx	2lx
Footcand.	496fcd	124fcd	55fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,8m	8,6m	12,8m	17,1m	25,7m	34,2m	42,8m	51,4m	68,5m	85,6m
Beam wid.	5,6ft	11,3ft	16,8ft	22,4ft	28,1ft	42,1ft	56,2ft	84,2ft	112,3ft	140,4ft	168,5ft	224,6ft	280,8ft

LINEAR DISTRIBUTION DIAGRAM

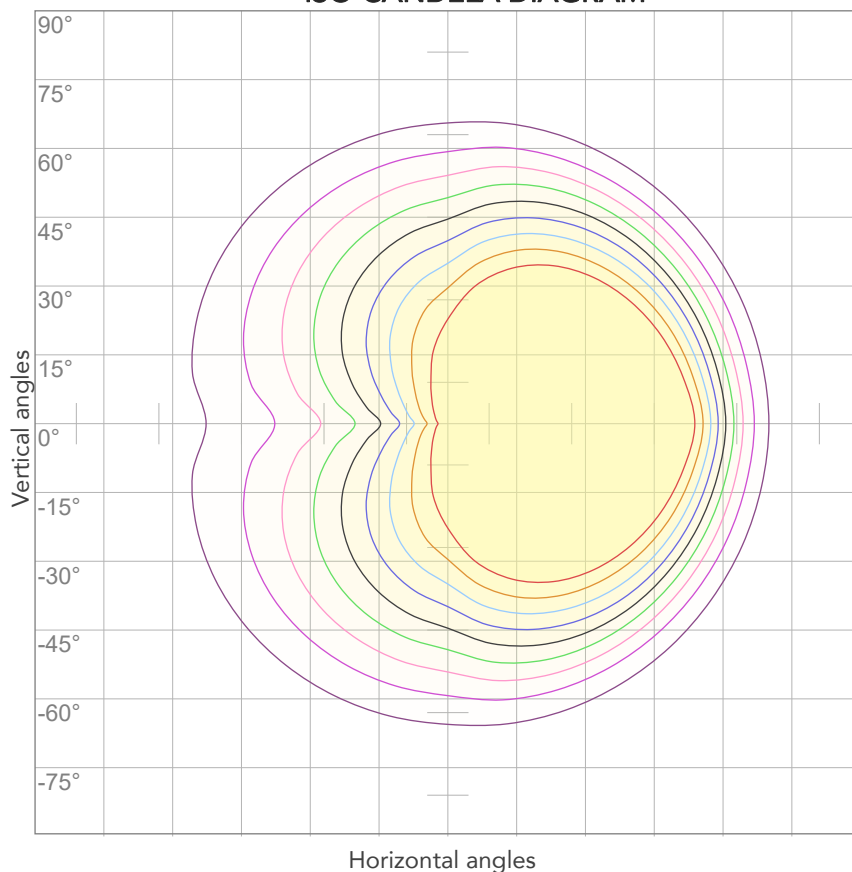


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	1,35A	294,8W	0,97	50lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



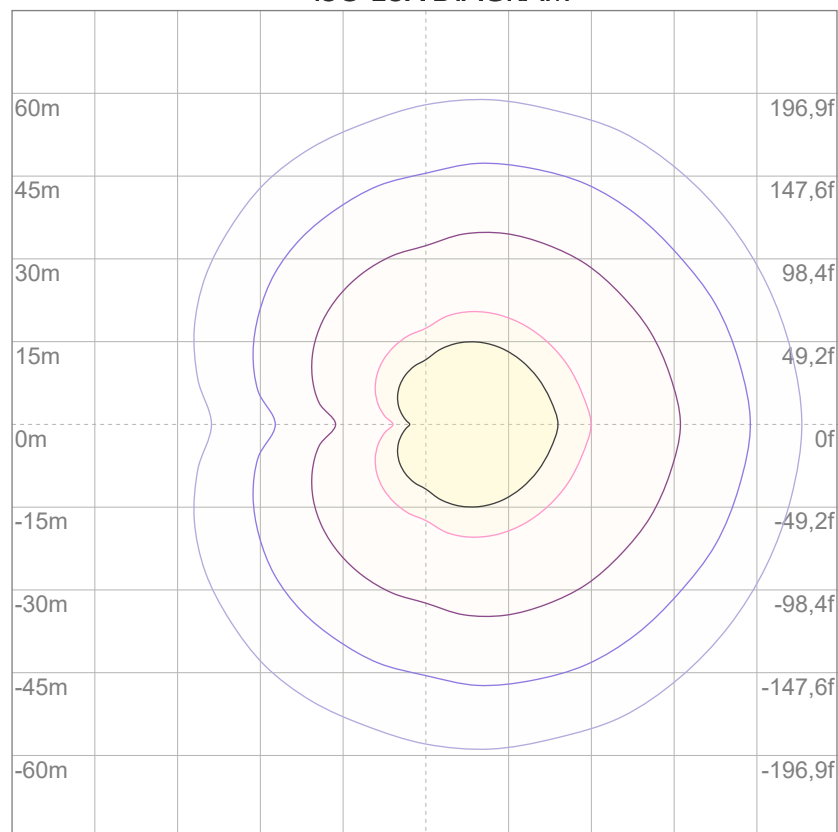
10%	534 cd
20%	1068 cd
30%	1601 cd
40%	2135 cd
50%	2669 cd
60%	3203 cd
70%	3737 cd
80%	4271 cd

Conditions:

Number of c-planes: 4

Candela at center: 5338 cd

ISO LUX DIAGRAM



3%	1,60 lx
5%	2,67 lx
10%	5,34 lx
30%	16,0 lx
50%	26,7 lx

Conditions:

Number of c-planes: 4

Lux at center: 53,4 lx

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



Total lumen output:

13865 lm

Peak candela output:

8878 cd

Light quality:

CRI: 79,1

Color temperature:

3277 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

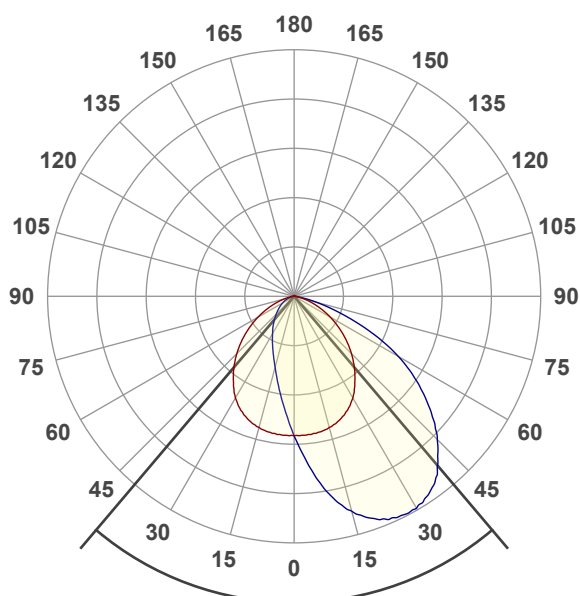
3200K HB

Operator:

Giuseppe della Peruta

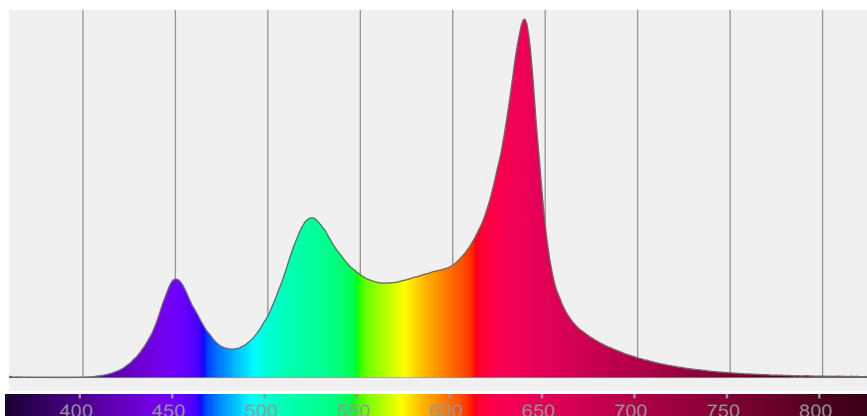
Date and time:

04/09/2025 12:46:23

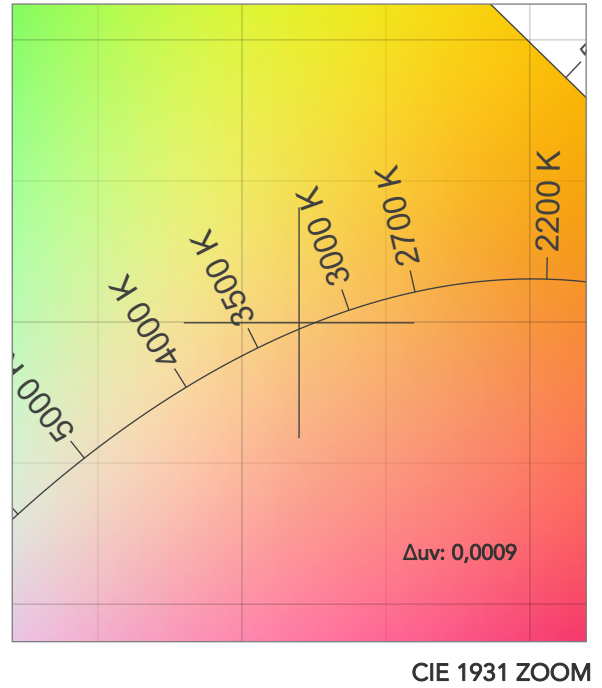
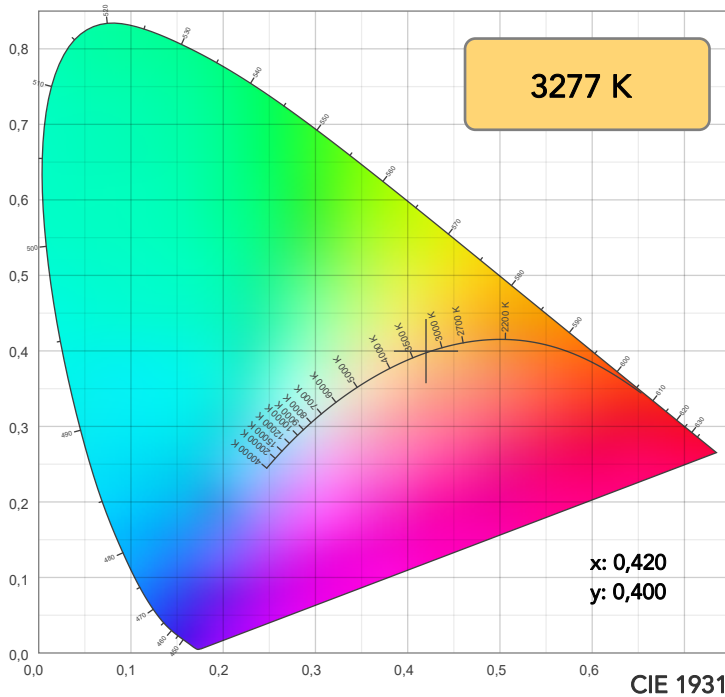


	Blue curve V	Red curve H
Beam angle 50%:	62,6°	98,5°
Field angle 10%:	120,6°	145,7°
Cut off angle 2.5%:	152,3°	162,1°

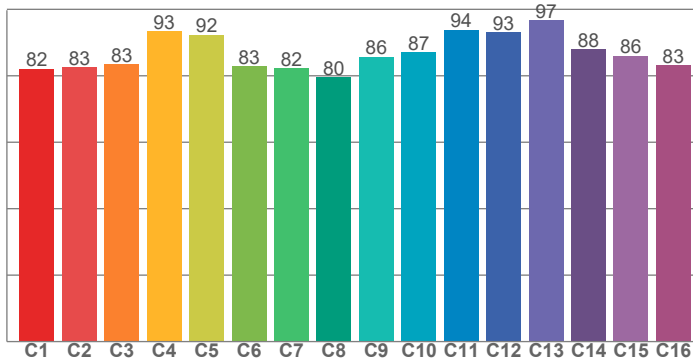
Spectra



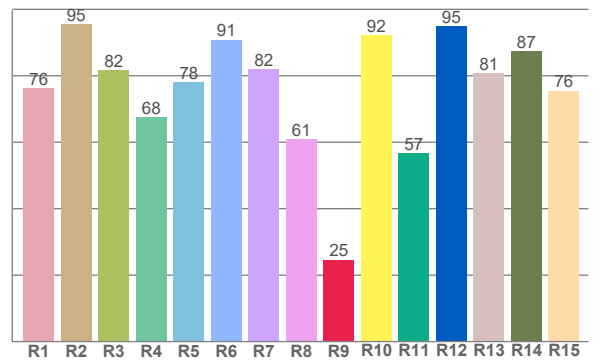
COLOR DETAILS



TM30: 87,3



CRI: 79,1 (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
76,2	95,4	81,6	67,5	78,1	90,9	82,0	60,9	24,6	92,3	56,8	94,9	80,8	87,4	75,5

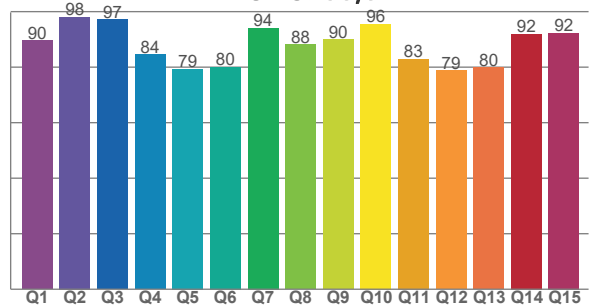
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,1	82,5	83,4	93,3	92,3	82,9	82,3	79,6	85,8	87,1	93,9	93,1	96,6	87,9	86,0	83,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,6	98,1	97,2	84,5	79,4	80,0	94,1	88,1	90,1	95,6	83,0	78,8	79,9	91,9	92,4

CQS: 86,3



COLOR PARAMETERS

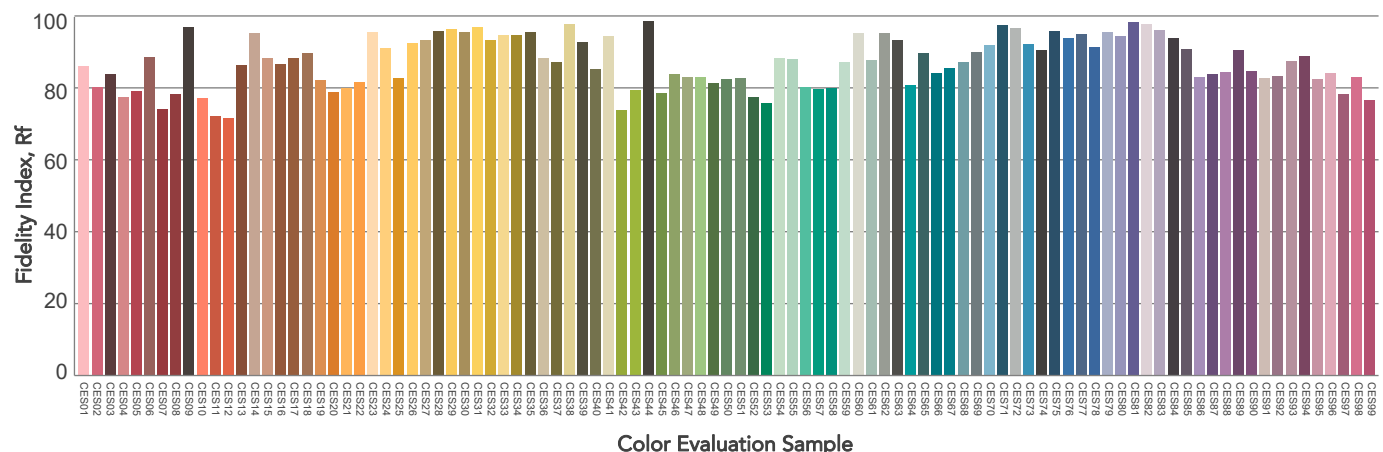
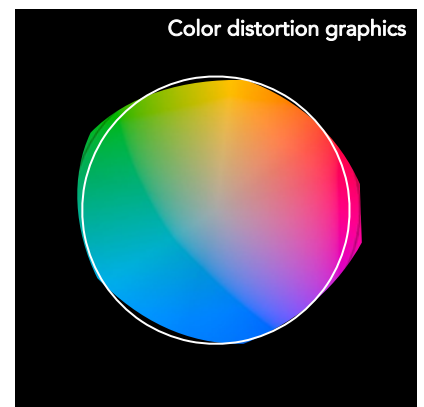
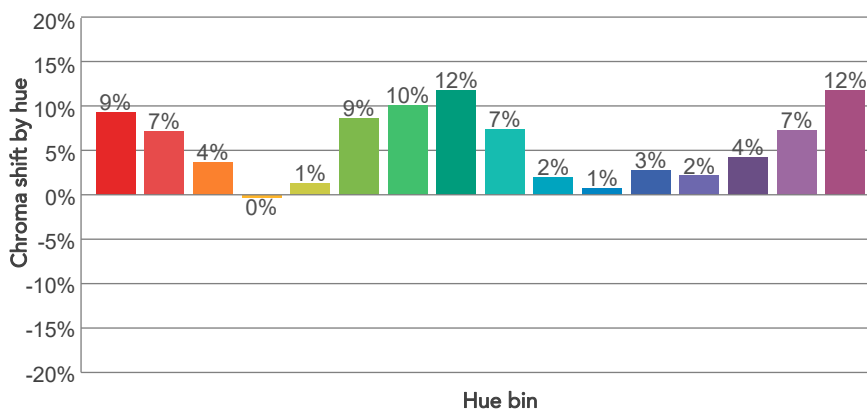
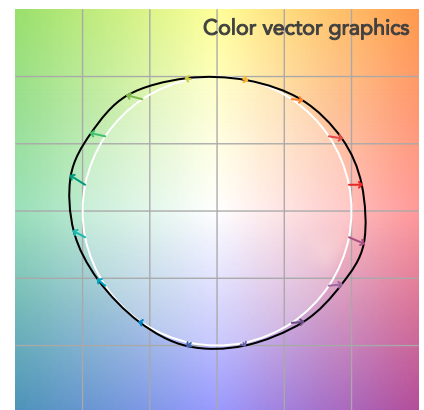
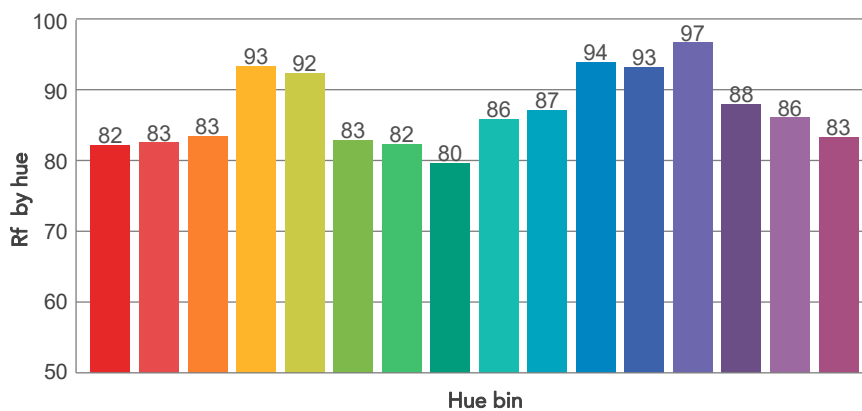
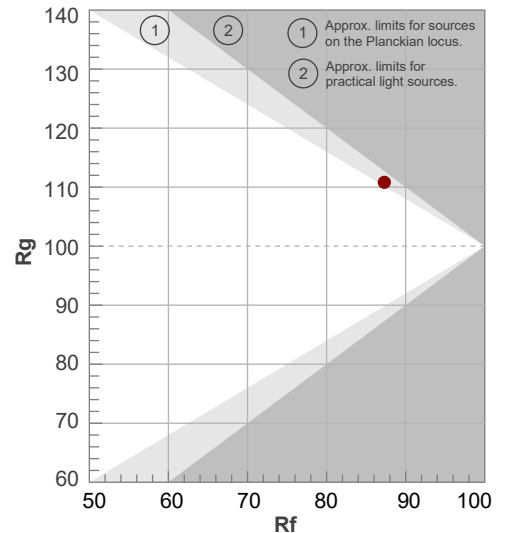
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3277 K	79,1	24,6	87,3	110,8	86,3	74	0,420	0,400	0,0009

TM30 DETAILS

Rf 87,3
Fidelity index Rf

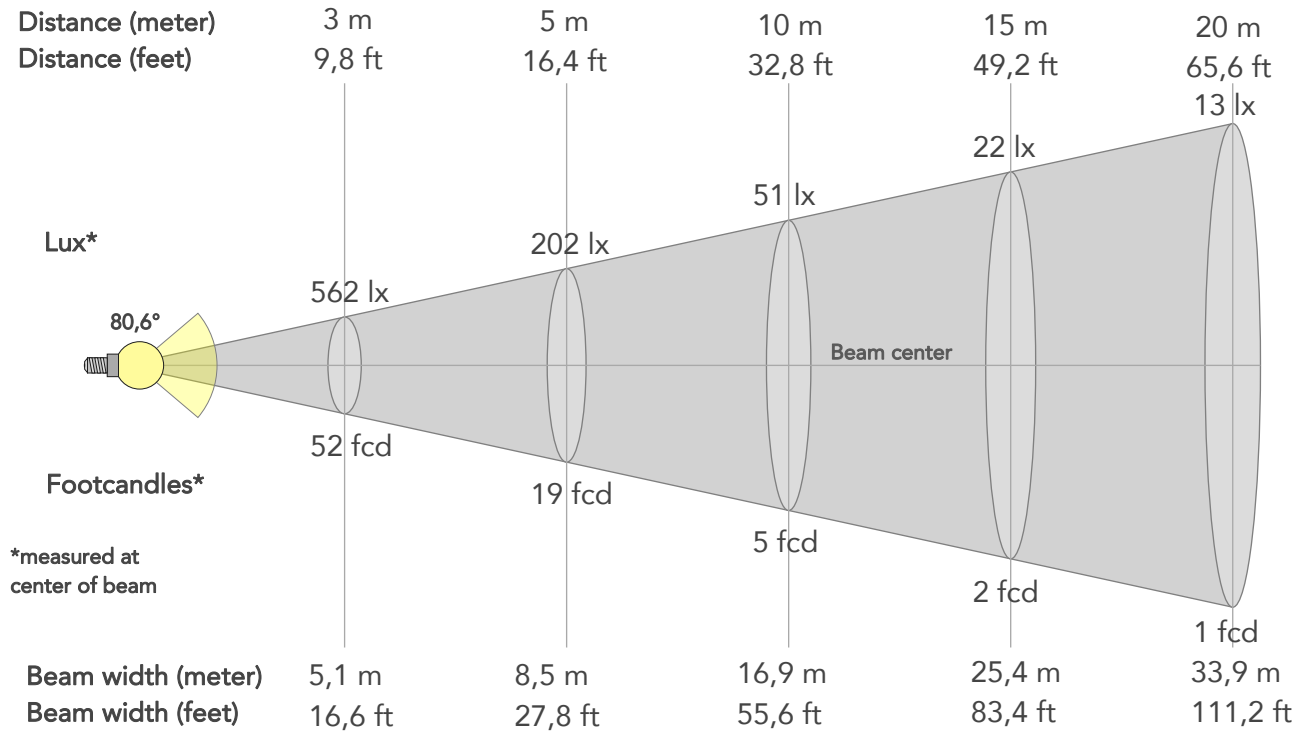
Rg 110,8
Gammut index

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	82	9%	-2%
2	83	7%	-7%
3	83	4%	-7%
4	93	0%	-3%
5	92	1%	4%
6	83	9%	8%
7	82	10%	4%
8	80	12%	-4%
9	86	7%	-6%
10	87	2%	-7%
11	94	1%	-2%
12	93	3%	-2%
13	97	2%	1%
14	88	4%	7%
15	86	7%	6%
16	83	12%	-2%



BEAM DETAILS

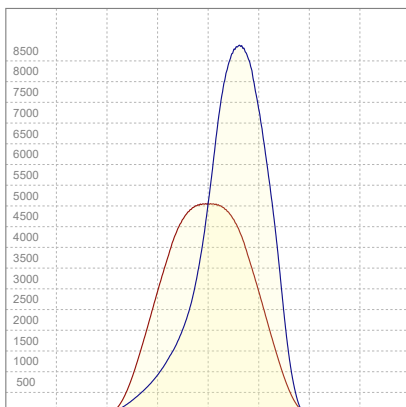
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
80,6°	133,1°	157,2°	86,0%	60,3%



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	5057lx	1264lx	562lx	316lx	202lx	90lx	51lx	22lx	13lx	8lx	6lx	3lx	2lx
Footcand.	470fcd	117fcd	52fcd	29fcd	19fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,8m	8,5m	12,7m	16,9m	25,4m	33,9m	42,4m	50,8m	67,8m	84,7m
Beam wid.	5,6ft	11,2ft	16,6ft	22,2ft	27,8ft	41,7ft	55,6ft	83,4ft	111,2ft	139ft	166,8ft	222,3ft	277,9ft

LINEAR DISTRIBUTION DIAGRAM

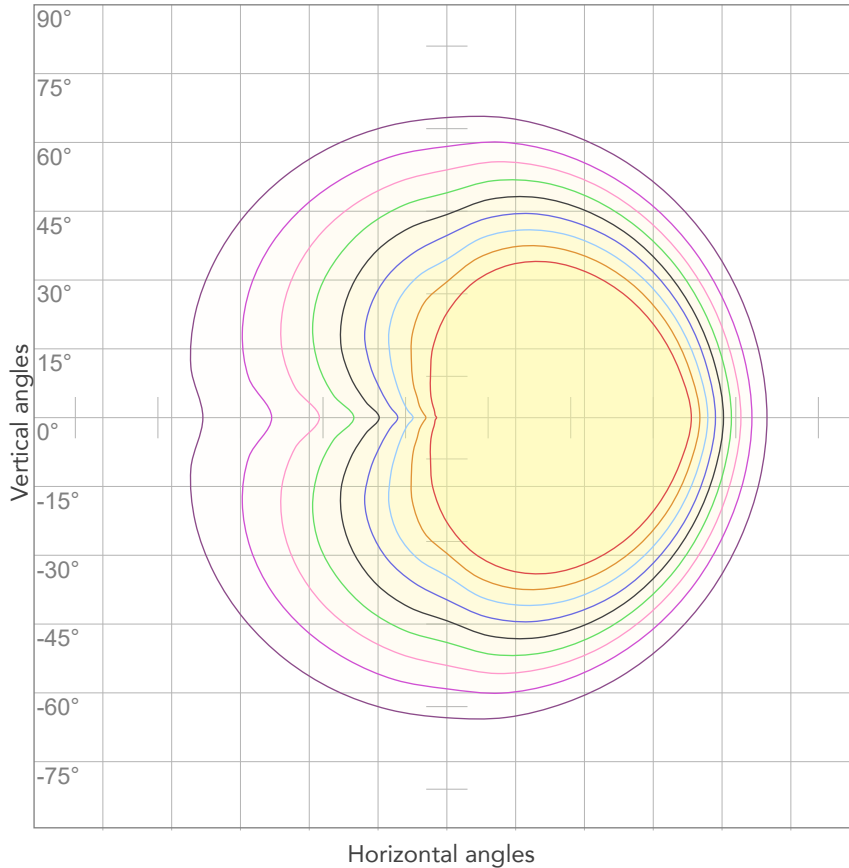


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,38A	302W	0,97	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



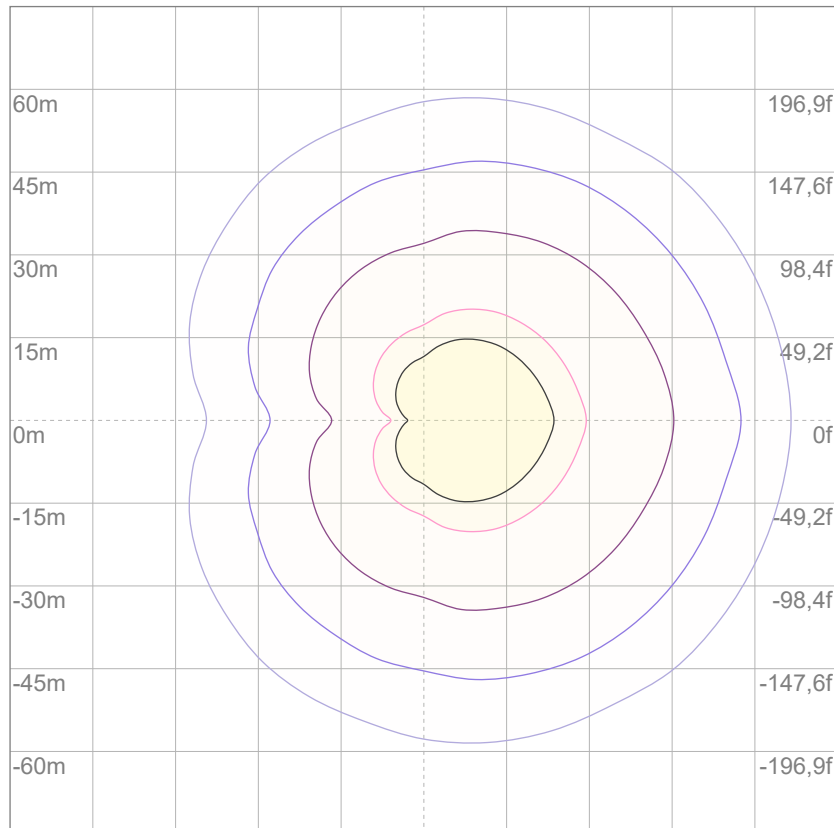
10%	506 cd
20%	1011 cd
30%	1517 cd
40%	2023 cd
50%	2528 cd
60%	3034 cd
70%	3540 cd
80%	4045 cd

Conditions:

Number of c-planes: 4

Candela at center: 5057 cd

ISO LUX DIAGRAM



3%	1,52 lx
5%	2,53 lx
10%	5,06 lx
30%	15,2 lx
50%	25,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 50,6 lx

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



Total lumen output:

14546 lm

Peak candela output:

9285 cd

Light quality:

CRI: 73,9

Color temperature:

3987 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

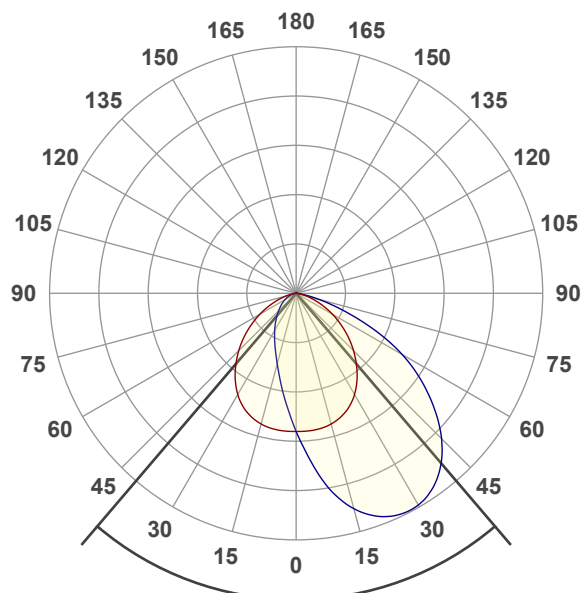
4000K HB

Operator:

Giuseppe della Peruta

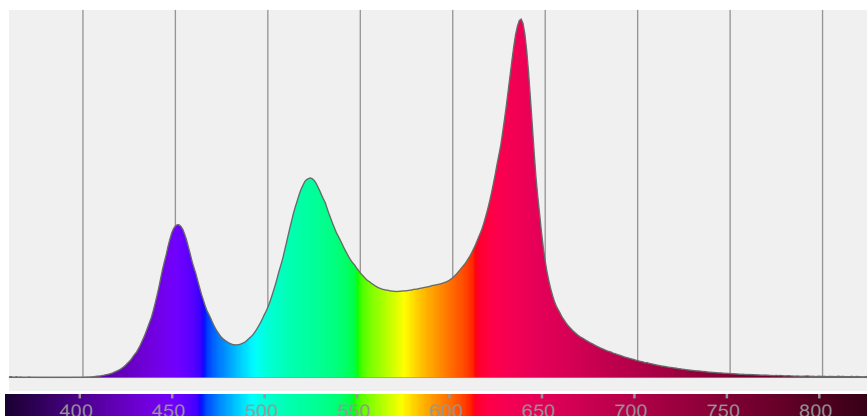
Date and time:

04/09/2025 12:56:11

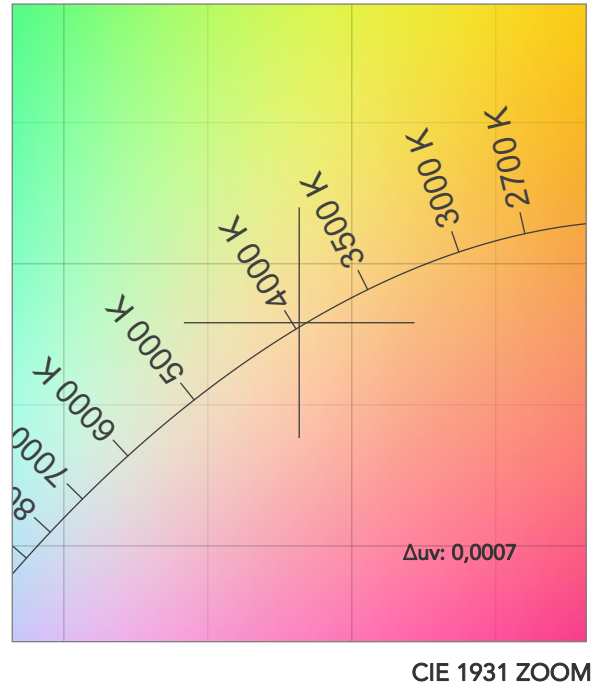
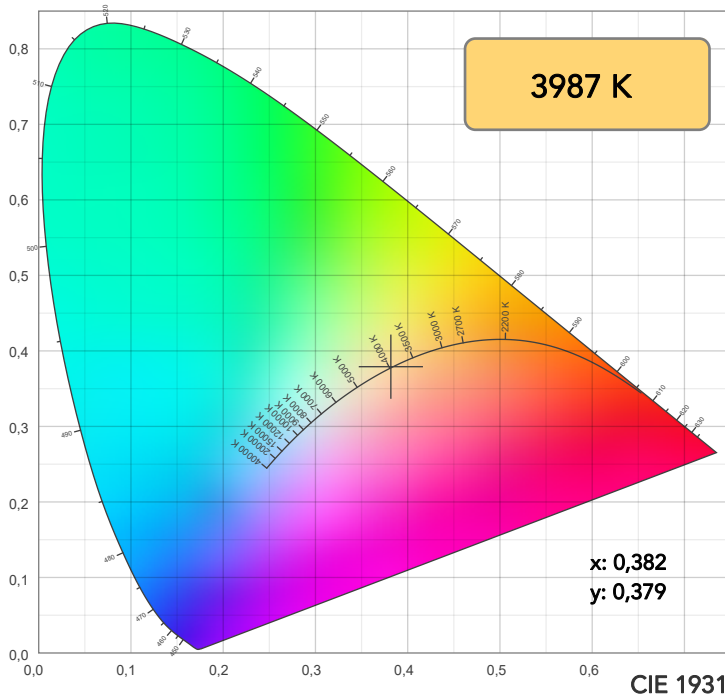


	Blue curve V	Red curve H
Beam angle 50%:	62,8°	99,1°
Field angle 10%:	120,2°	145,9°
Cut off angle 2.5%:	152,3°	162,1°

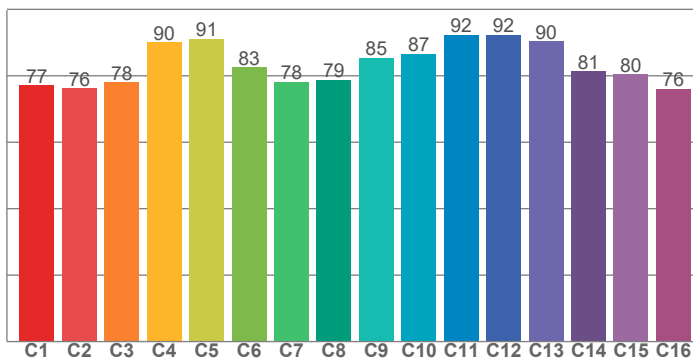
Spectra



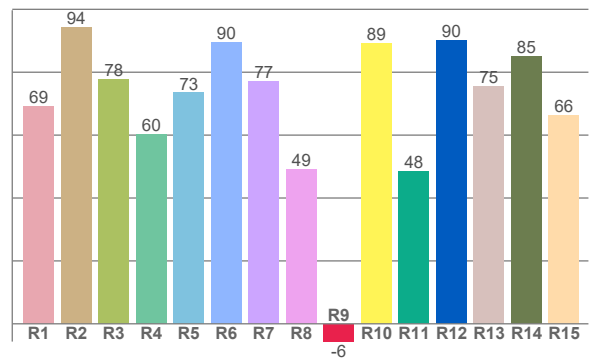
COLOR DETAILS



TM30: 84,0



CRI: 73,9 (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
69,3	94,1	77,9	60,3	73,5	89,6	77,1	49,1	-5,7	89,2	48,4	90,0	75,4	85,1	66,4

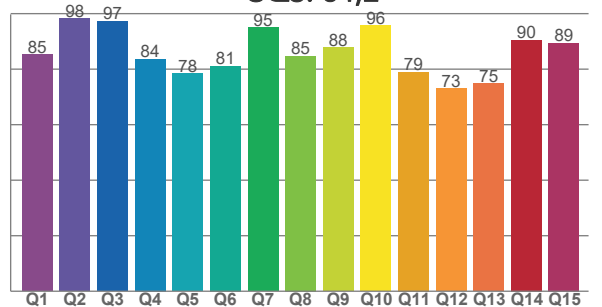
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,1	76,3	78,0	90,1	91,1	82,6	78,3	78,8	85,4	86,6	92,3	92,3	90,4	81,3	80,4	76,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,2	98,3	97,3	83,6	78,4	81,1	95,1	84,7	87,8	95,7	79,0	73,0	74,8	90,5	89,4

CQS: 84,2



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
3987 K	73,9	-5,7	84,0	112,9	84,2	64	0,382	0,379	0,0007

TM30 DETAILS

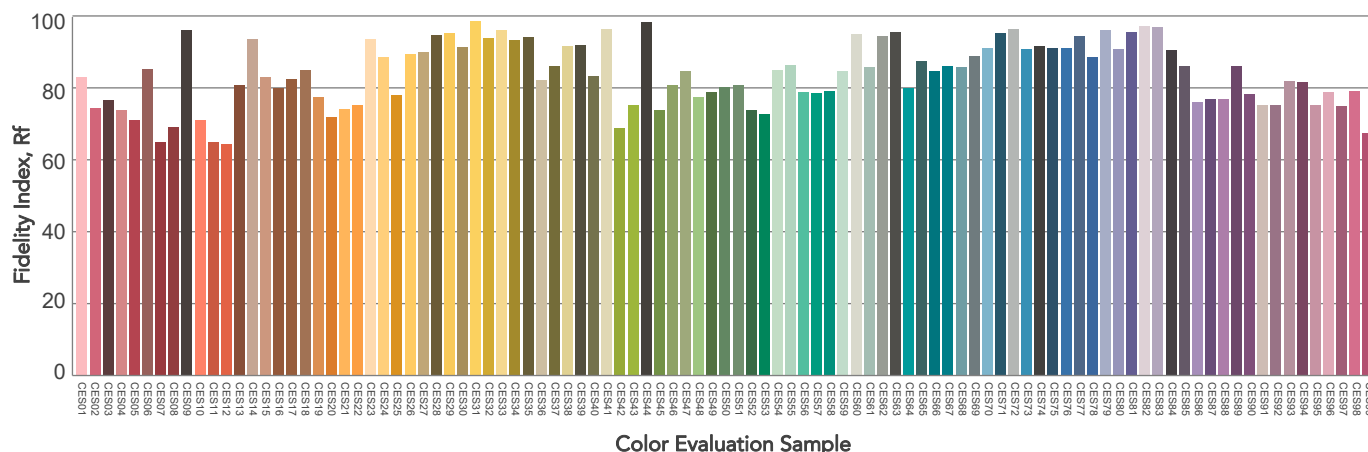
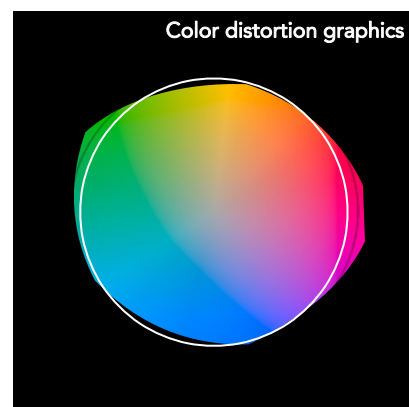
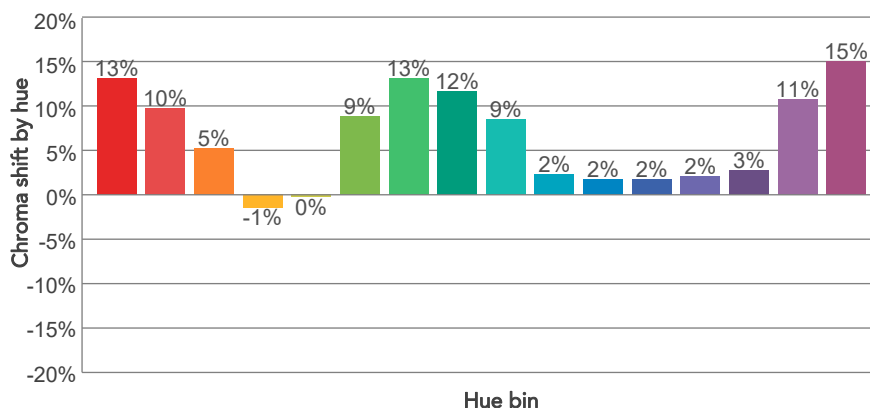
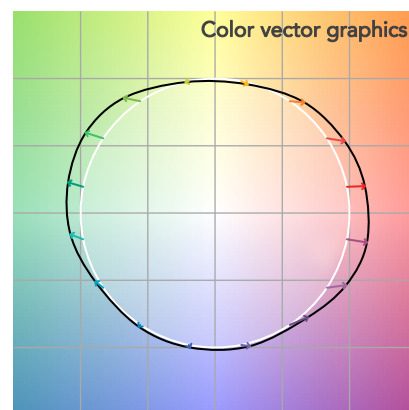
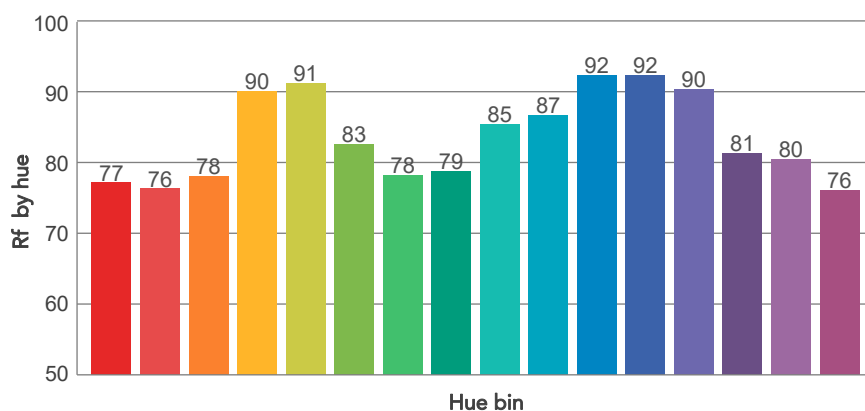
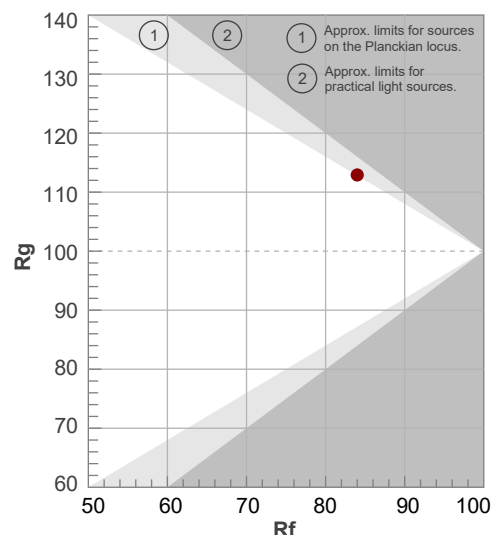
Rf 84,0

Fidelity index Rf

Rg 112,9

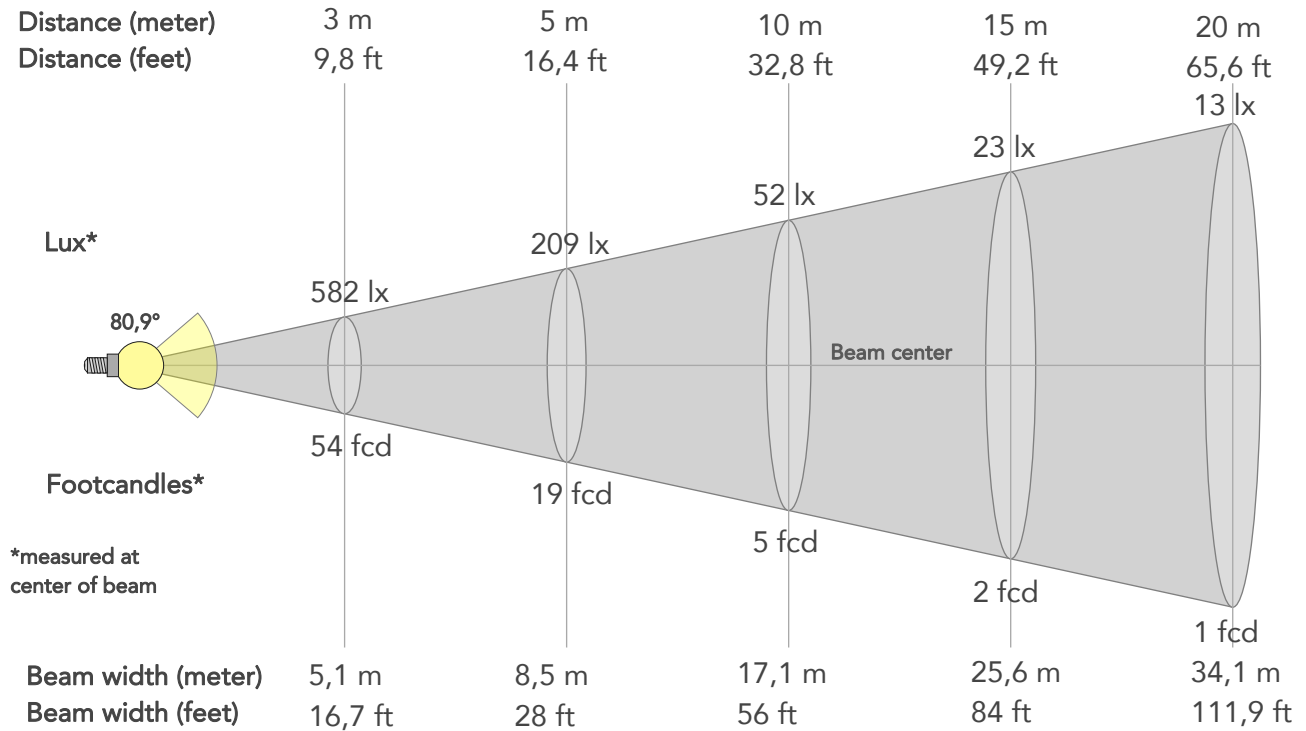
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	13%	-2%
2	76	10%	-9%
3	78	5%	-9%
4	90	-1%	-5%
5	91	0%	3%
6	83	9%	9%
7	78	13%	4%
8	79	12%	-1%
9	85	9%	-5%
10	87	2%	-7%
11	92	2%	0%
12	92	2%	1%
13	90	2%	6%
14	81	3%	14%
15	80	11%	10%
16	76	15%	1%



BEAM DETAILS

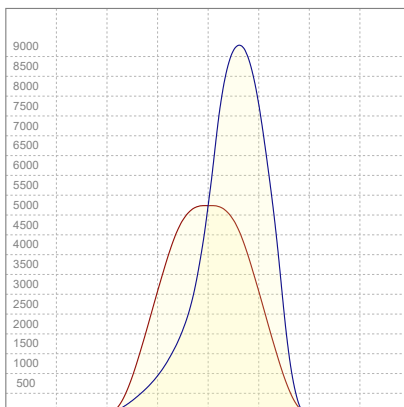
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
80,9°	133,1°	157,2°	85,9%	60,1%



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	5236lx	1309lx	582lx	327lx	209lx	93lx	52lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	486fcd	122fcd	54fcd	30fcd	19fcd	9fcd	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	34,1m	42,7m	51,2m	68,3m	85,3m
Beam wid.	5,6ft	11,3ft	16,7ft	22,4ft	28ft	42ft	56ft	84ft	111,9ft	139,9ft	167,9ft	223,9ft	279,9ft

LINEAR DISTRIBUTION DIAGRAM

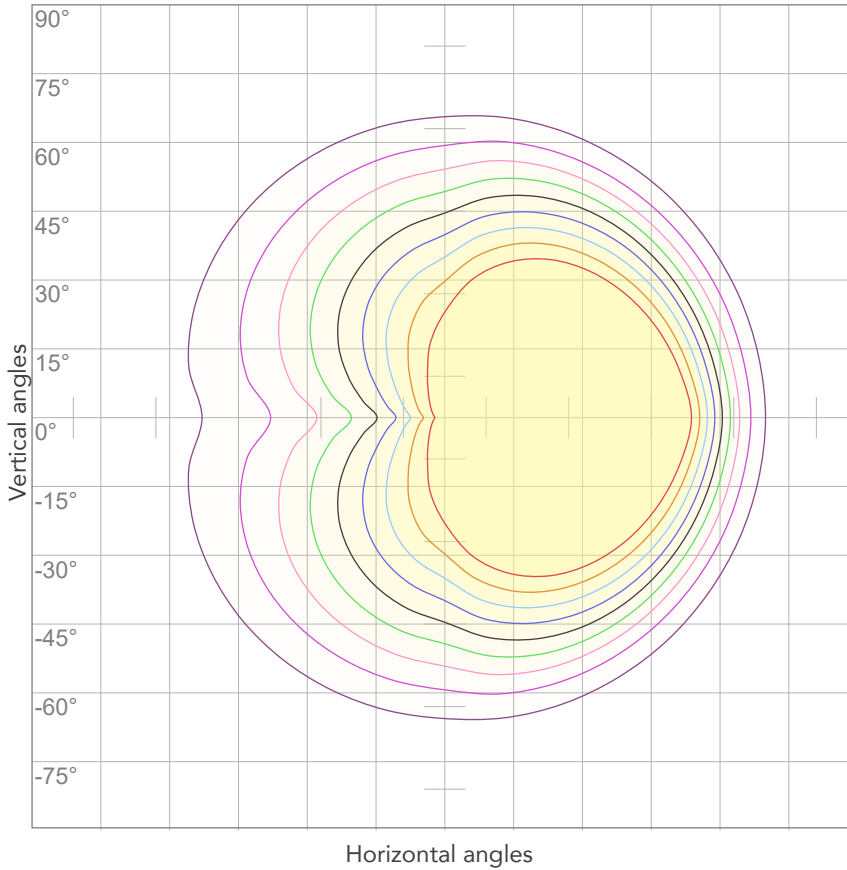


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	1,38A	303,1W	0,97	48lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



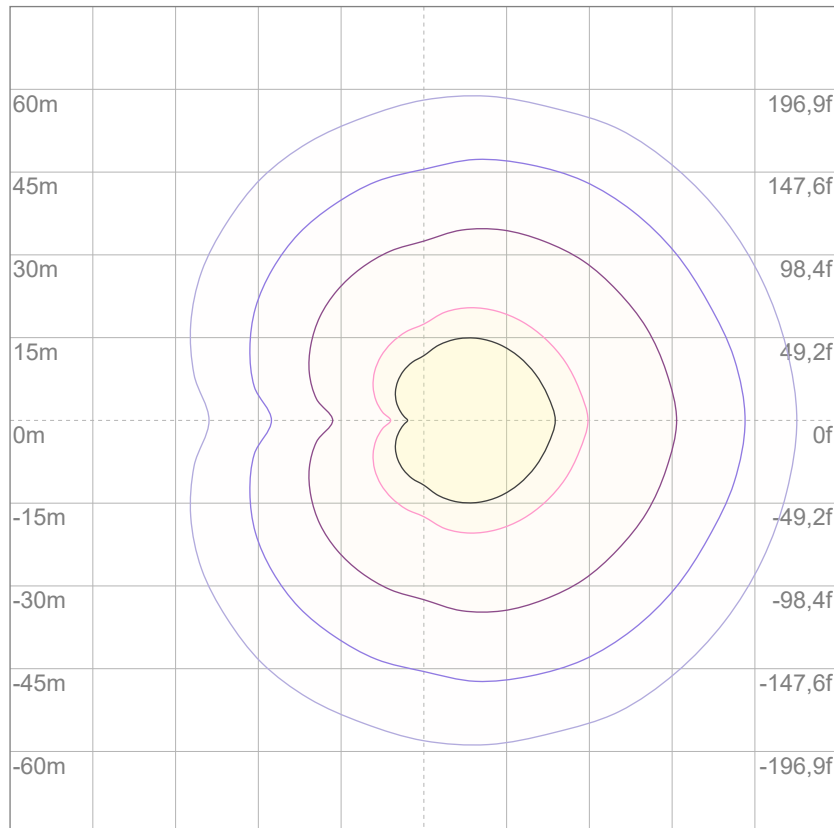
10%	524 cd
20%	1047 cd
30%	1571 cd
40%	2094 cd
50%	2618 cd
60%	3142 cd
70%	3665 cd
80%	4189 cd

Conditions:

Number of c-planes: 4

Candela at center: 5236 cd

ISO LUX DIAGRAM



3%	1,57 lx
5%	2,62 lx
10%	5,24 lx
30%	15,7 lx
50%	26,2 lx

Conditions:

Number of c-planes: 4

Lux at center: 52,4 lx

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



Total lumen output:

13607 lm

Peak candela output:

8711 cd

Light quality:

CRI: 75,6

Color temperature:

5615 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

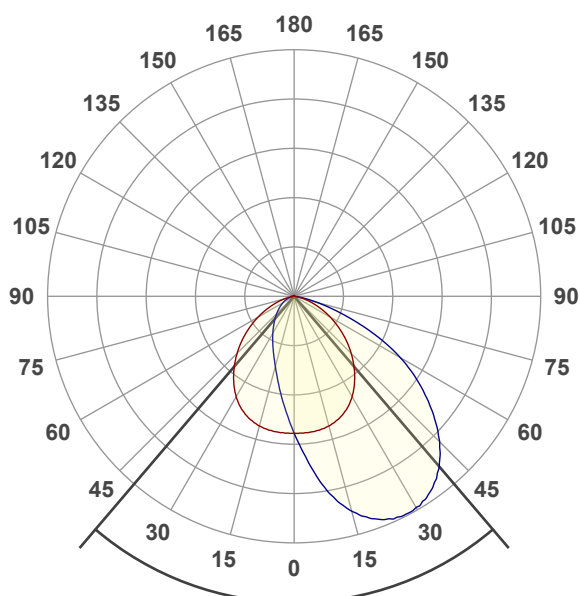
5600K HB

Operator:

Giuseppe della Peruta

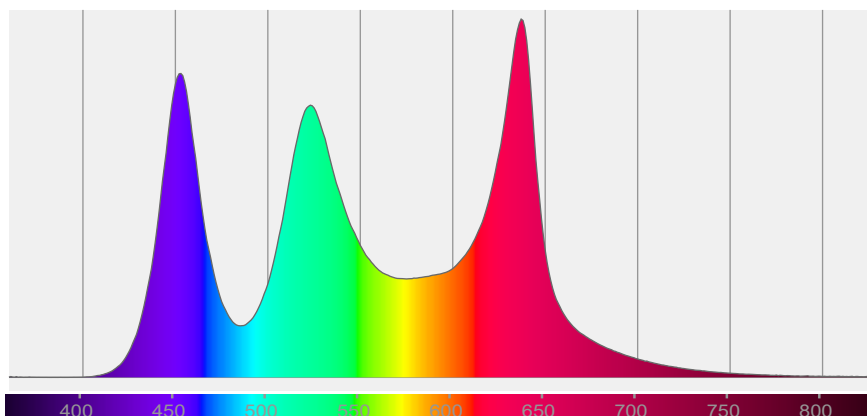
Date and time:

04/09/2025 12:59:27

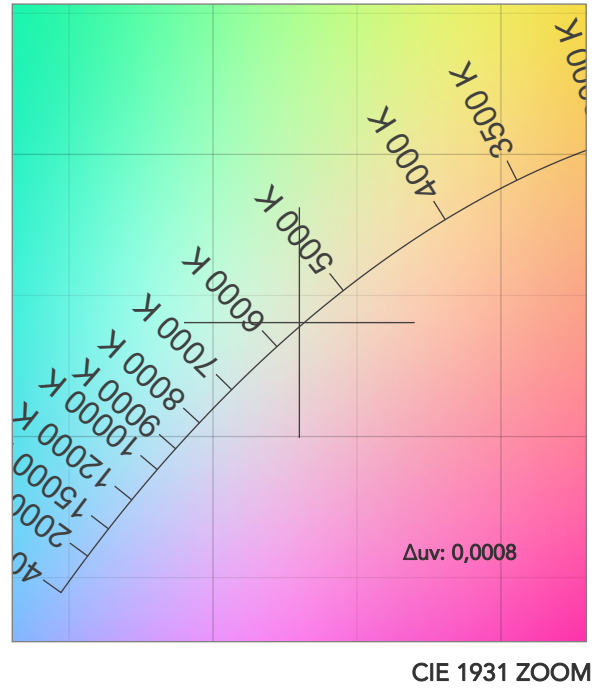
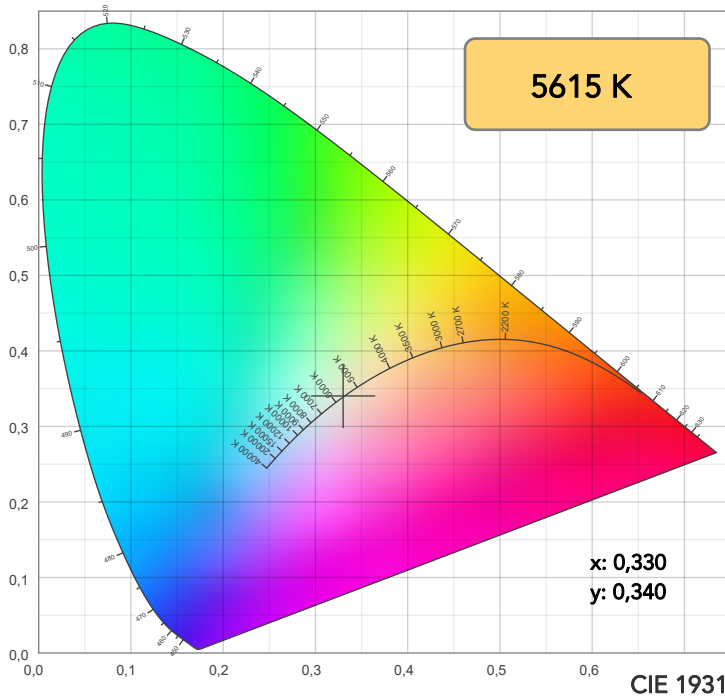


	Blue curve V	Red curve H
Beam angle 50%:	62,6°	99,2°
Field angle 10%:	120,2°	146°
Cut off angle 2.5%:	152,2°	162,2°

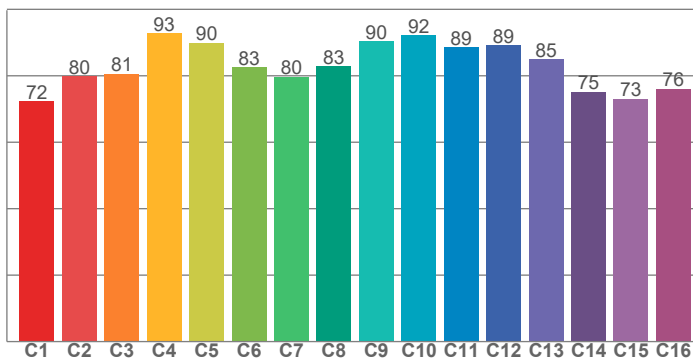
Spectra



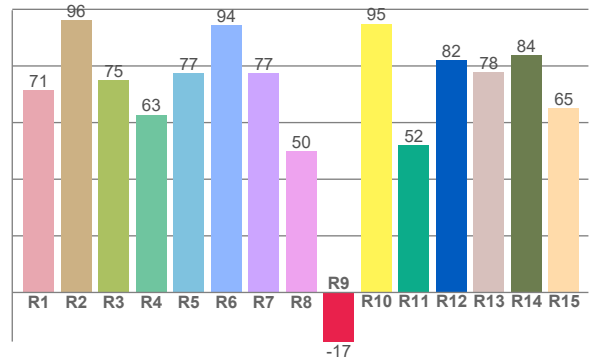
COLOR DETAILS



TM30: 83,6



CRI: 75,6 (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
71,4	96,3	75,0	62,8	77,5	94,5	77,4	49,8	-17,3	95,0	52,0	82,2	77,9	83,7	65,2

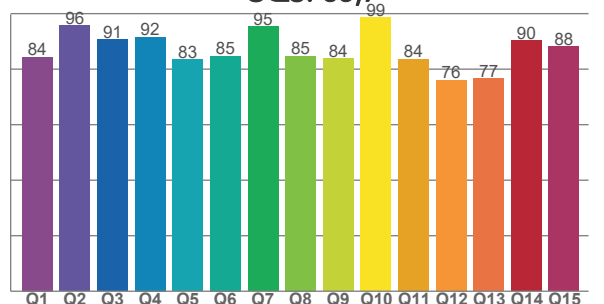
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
72,3	79,9	80,6	92,8	89,9	82,6	79,7	82,9	90,4	92,2	88,5	89,1	85,0	75,2	73,1	76,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,4	95,7	90,7	91,6	83,5	84,8	95,4	84,8	83,9	98,6	83,6	76,2	76,7	90,3	88,1

CQS: 85,7



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
5615 K	75,6	-17,3	83,6	113,8	85,7	66	0,330	0,340	0,0008

TM30 DETAILS

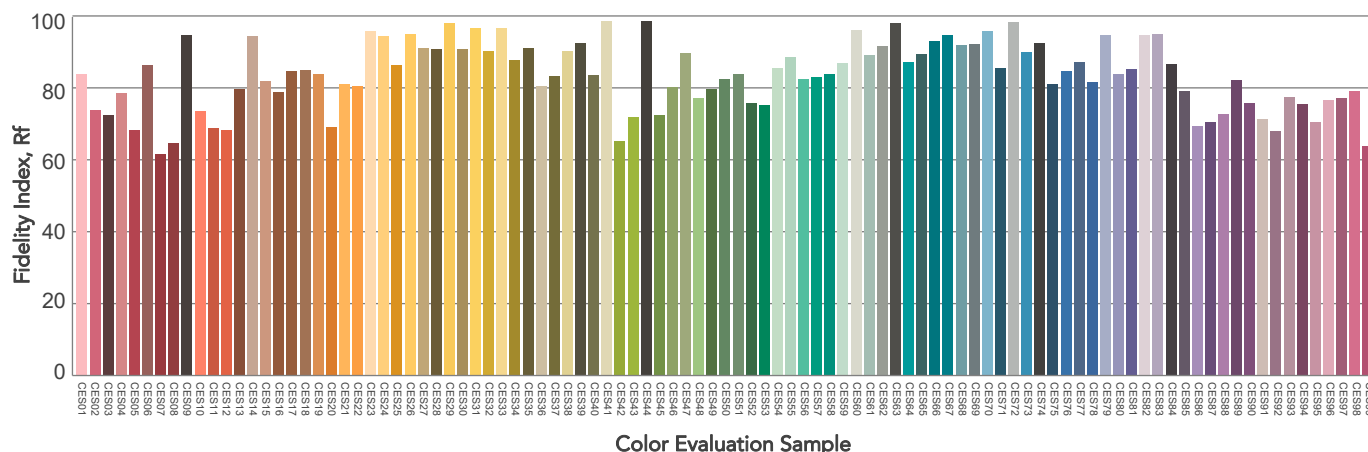
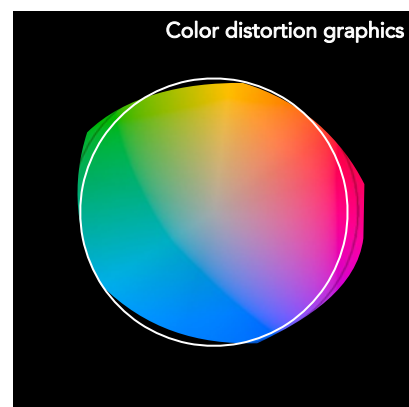
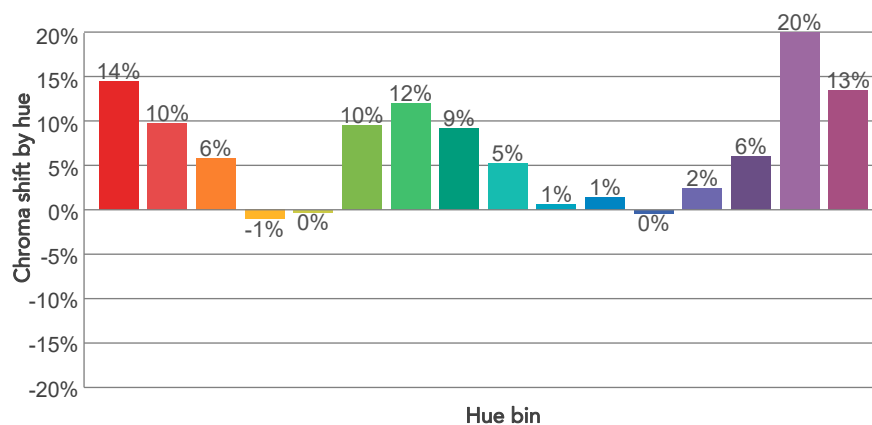
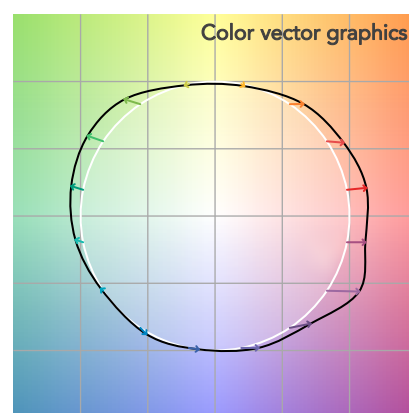
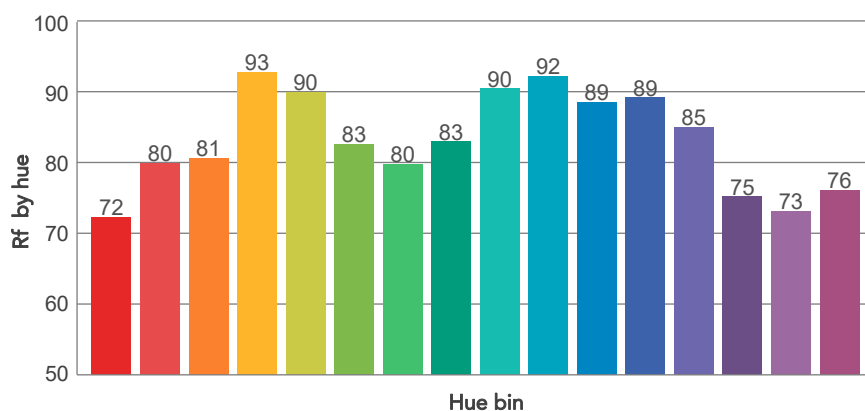
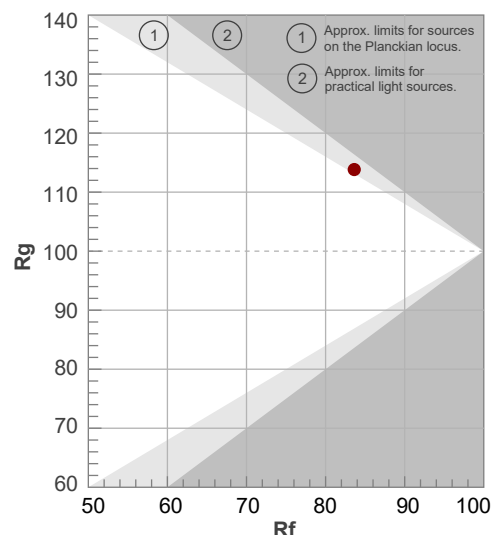
Rf 83,6

Fidelity index Rf

Rg 113,8

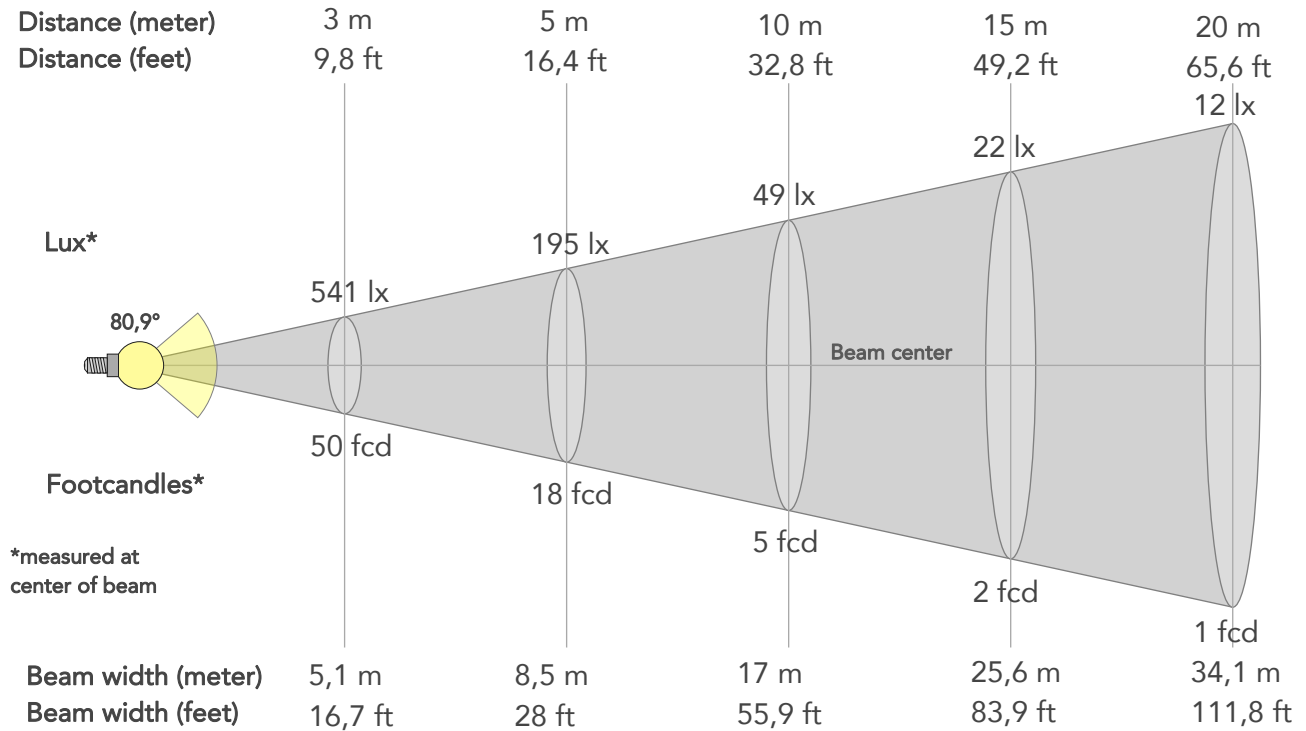
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	72	14%	-1%
2	80	10%	-8%
3	81	6%	-8%
4	93	-1%	-2%
5	90	0%	3%
6	83	10%	8%
7	80	12%	3%
8	83	9%	-1%
9	90	5%	-3%
10	92	1%	-2%
11	89	1%	6%
12	89	0%	7%
13	85	2%	13%
14	75	6%	15%
15	73	20%	13%
16	76	13%	3%



BEAM DETAILS

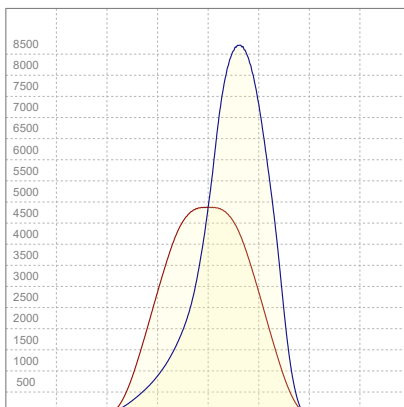
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
80,9°	133,1°	157,2°	85,9%	60,0%



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	4870lx	1217lx	541lx	304lx	195lx	87lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	452fcd	113fcd	50fcd	28fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,8m	8,5m	12,8m	17m	25,6m	34,1m	42,6m	51,1m	68,2m	85,2m
Beam wid.	5,6ft	11,3ft	16,7ft	22,3ft	28ft	41,9ft	55,9ft	83,9ft	111,8ft	139,8ft	167,7ft	223,7ft	279,6ft

LINEAR DISTRIBUTION DIAGRAM

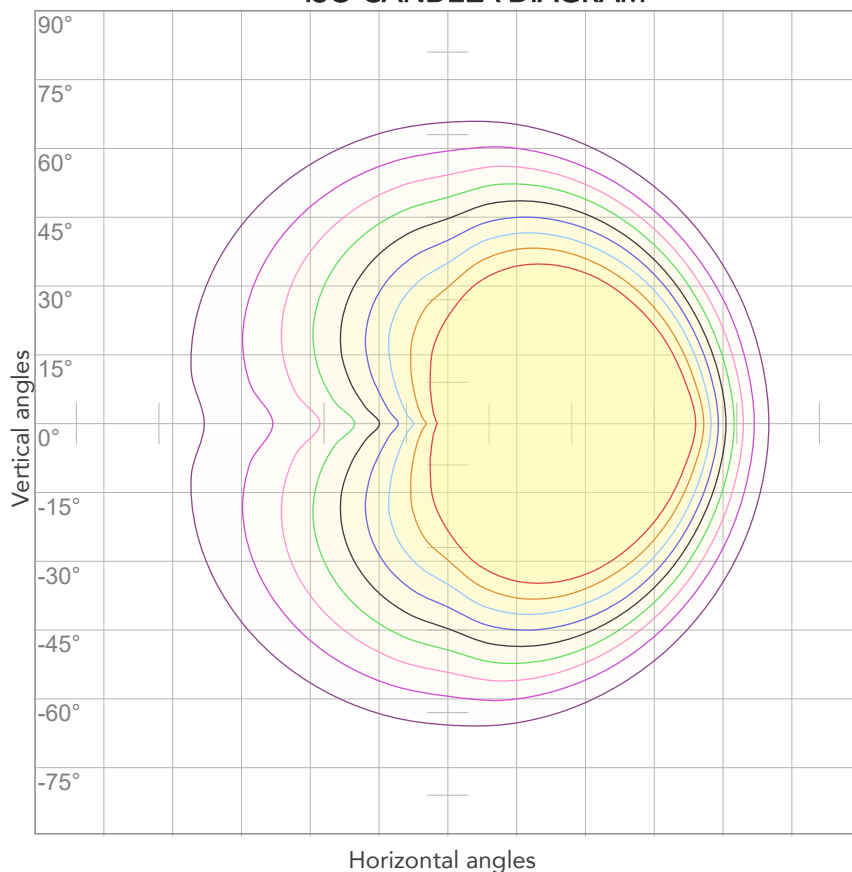


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	1,36A	298,3W	0,97	46lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



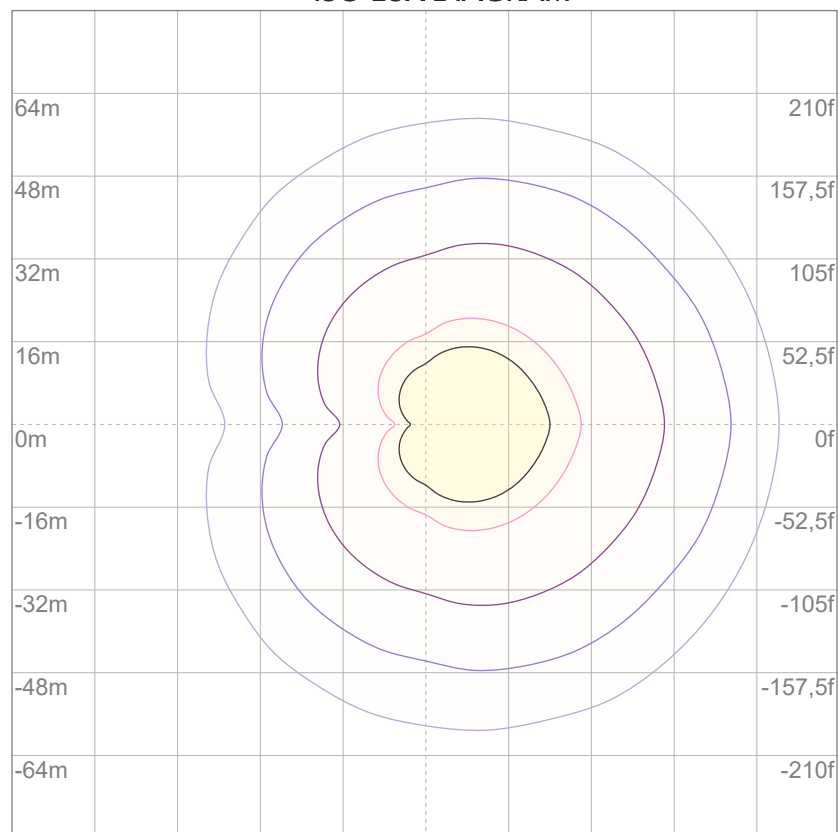
10%	487 cd
20%	974 cd
30%	1461 cd
40%	1948 cd
50%	2435 cd
60%	2922 cd
70%	3409 cd
80%	3896 cd

Conditions:

Number of c-planes: 4

Candela at center: 4870 cd

ISO LUX DIAGRAM



3%	1,46 lx
5%	2,43 lx
10%	4,87 lx
30%	14,6 lx
50%	24,3 lx

Conditions:

Number of c-planes: 4

Lux at center: 48,7 lx

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



Total lumen output:

13297 lm

Peak candela output:

8499 cd

Light quality:

CRI: 77,9

Color temperature:

5994 K

PRODUCT NAME:

ECLEXP0300IP FC

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

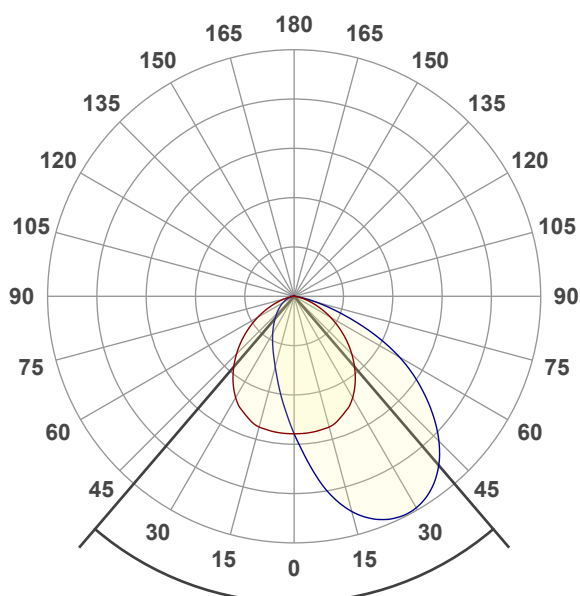
6000K HB

Operator:

Giuseppe della Peruta

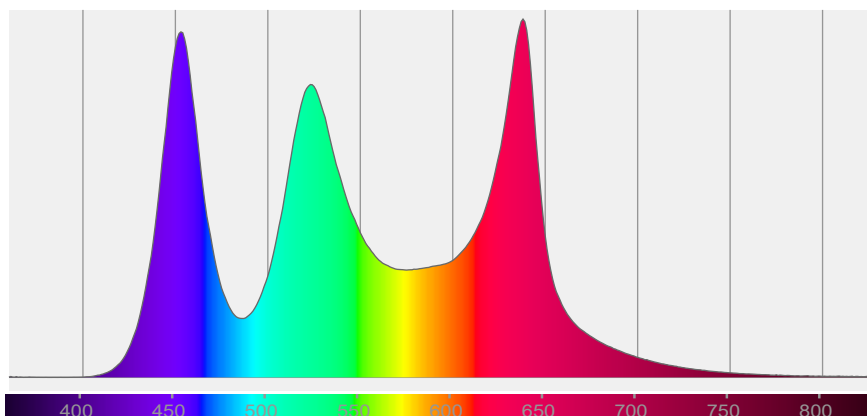
Date and time:

04/09/2025 13:02:19

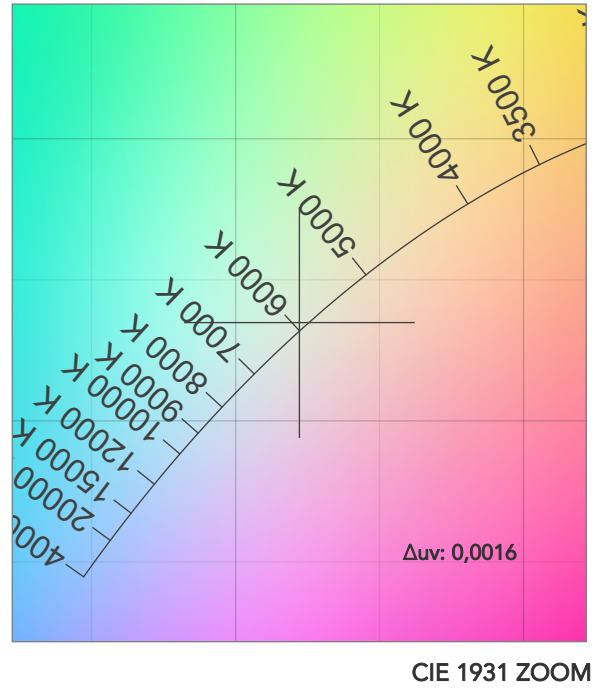
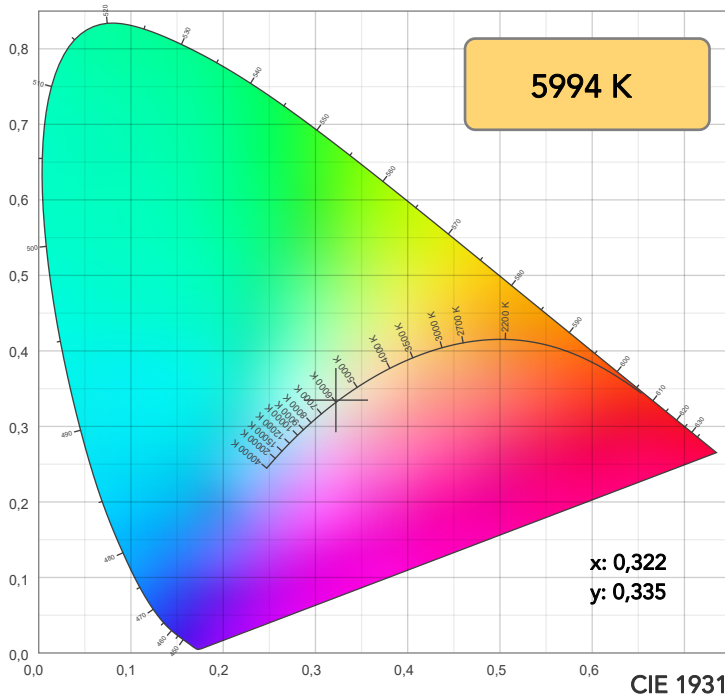


	Blue curve V	Red curve H
Beam angle 50%:	62,6°	99,6°
Field angle 10%:	120,2°	146,1°
Cut off angle 2.5%:	152,2°	162,3°

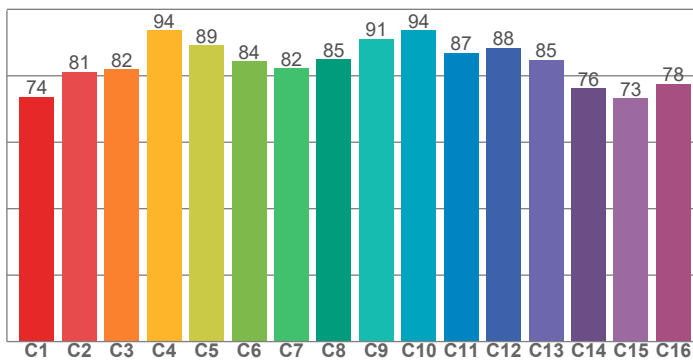
Spectra



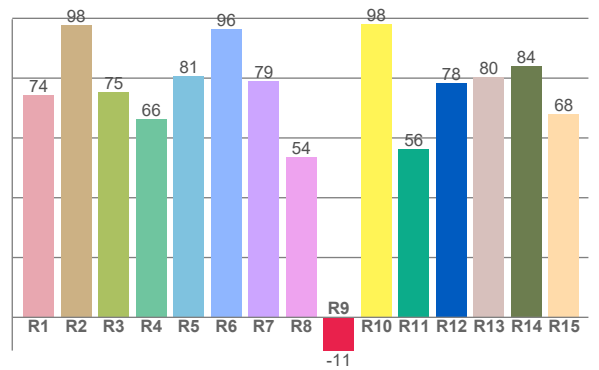
COLOR DETAILS



TM30: 84,3



CRI: 77,9 (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
74,3	97,6	75,3	66,3	80,6	96,4	78,9	53,6	-11,1	97,9	56,1	78,4	80,4	84,1	68,0

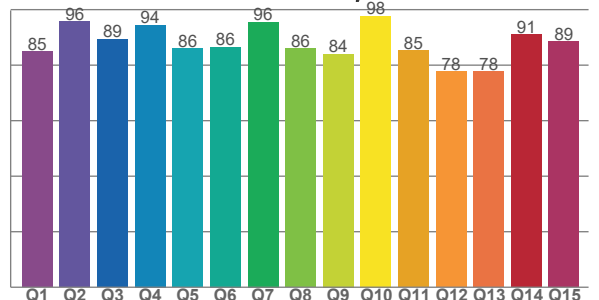
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
73,7	81,2	81,9	93,7	89,1	84,4	82,3	85,0	91,2	93,6	86,9	88,4	84,8	76,2	73,2	77,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,9	95,8	89,3	94,5	86,0	86,5	95,6	85,9	84,1	97,7	85,4	77,7	77,7	91,0	88,5

CQS: 86,7



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
5994 K	77,9	-11,1	84,3	112,8	86,7	70	0,322	0,335	0,0016

TM30 DETAILS

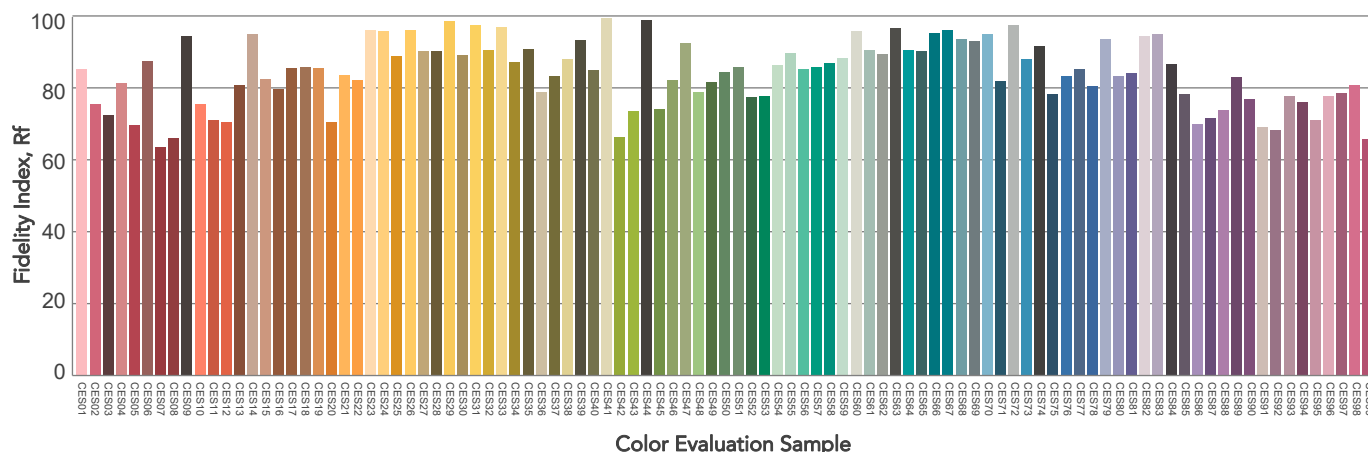
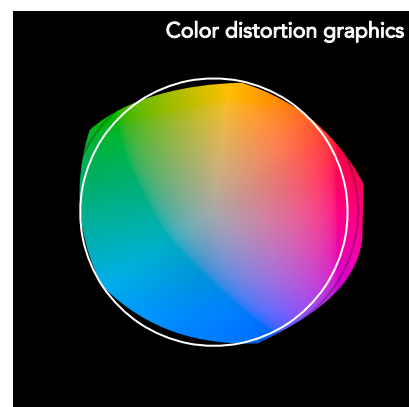
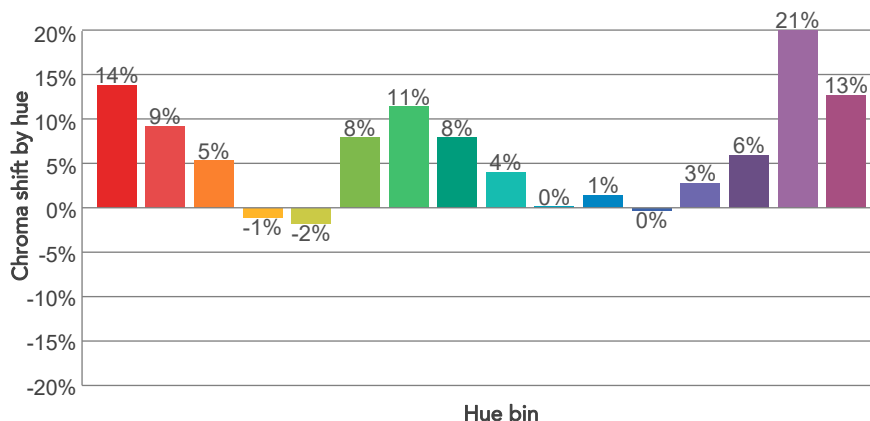
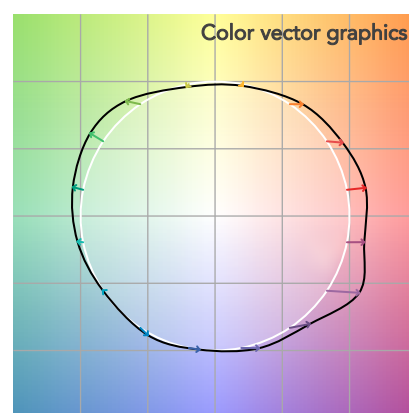
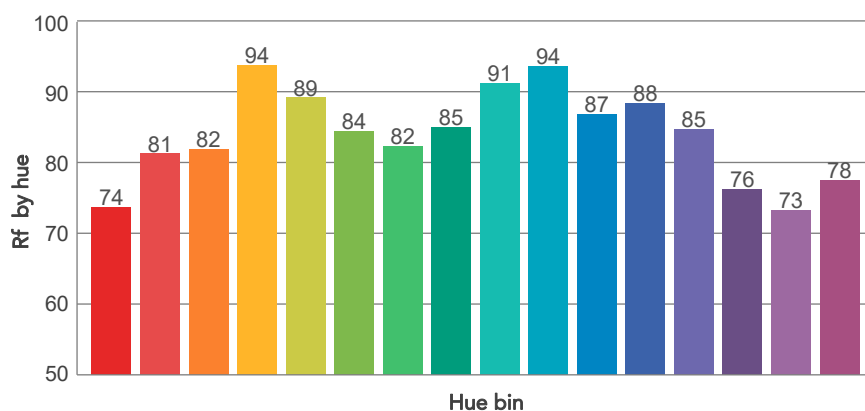
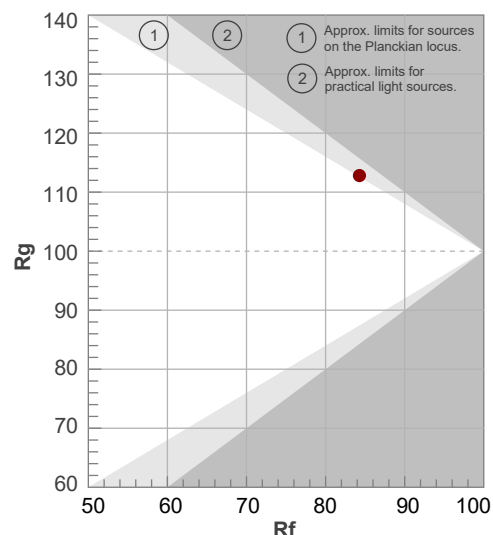
Rf 84,3

Fidelity index Rf

Rg 112,8

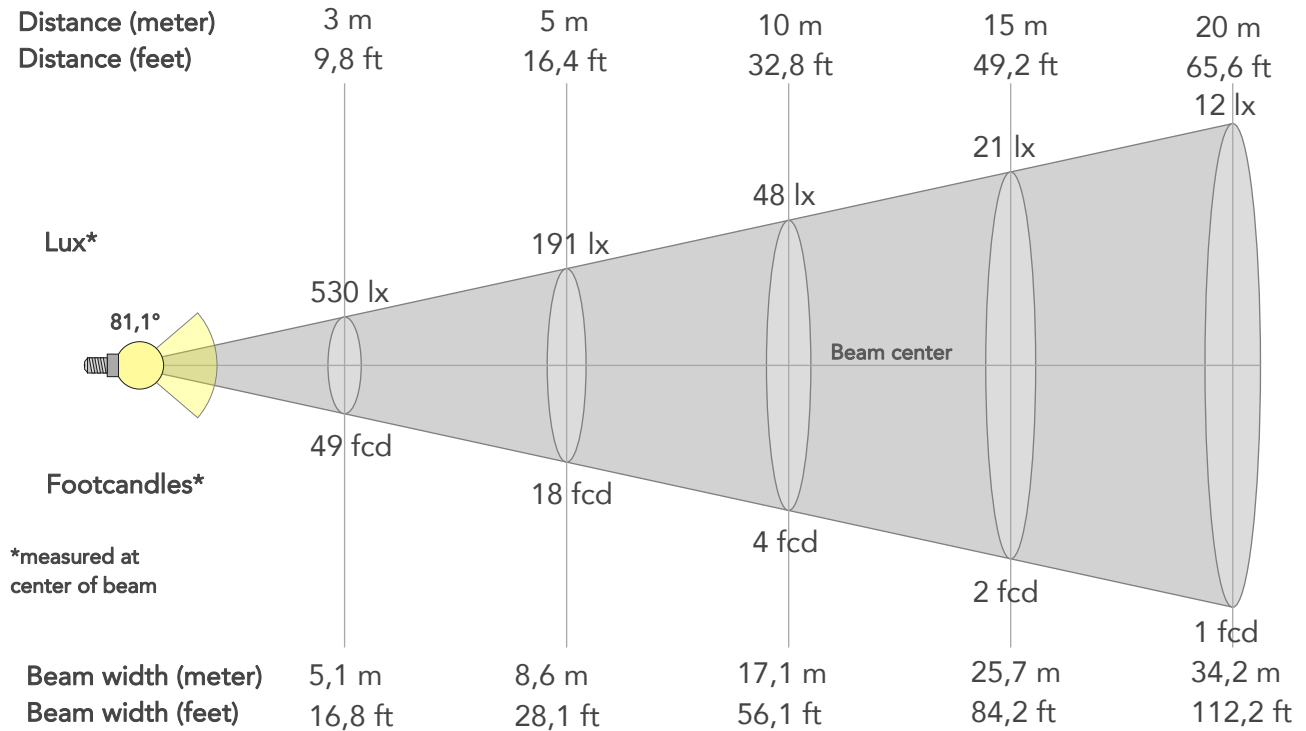
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	74	14%	-1%
2	81	9%	-7%
3	82	5%	-8%
4	94	-1%	-1%
5	89	-2%	2%
6	84	8%	8%
7	82	11%	0%
8	85	8%	0%
9	91	4%	-1%
10	94	0%	0%
11	87	1%	8%
12	88	0%	8%
13	85	3%	13%
14	76	6%	14%
15	73	21%	12%
16	78	13%	3%



BEAM DETAILS

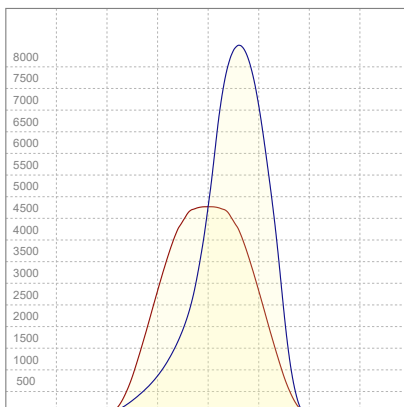
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,1°	133,1°	157,3°	85,9%	60,1%



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	4769lx	1192lx	530lx	298lx	191lx	85lx	48lx	21lx	12lx	8lx	5lx	3lx	2lx
Footcand.	443fcd	111fcd	49fcd	28fcd	18fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,7m	3,4m	5,1m	6,8m	8,6m	12,8m	17,1m	25,7m	34,2m	42,8m	51,3m	68,4m	85,6m
Beam wid.	5,6ft	11,3ft	16,8ft	22,4ft	28,1ft	42,1ft	56,1ft	84,2ft	112,2ft	140,3ft	168,4ft	224,5ft	280,6ft

LINEAR DISTRIBUTION DIAGRAM

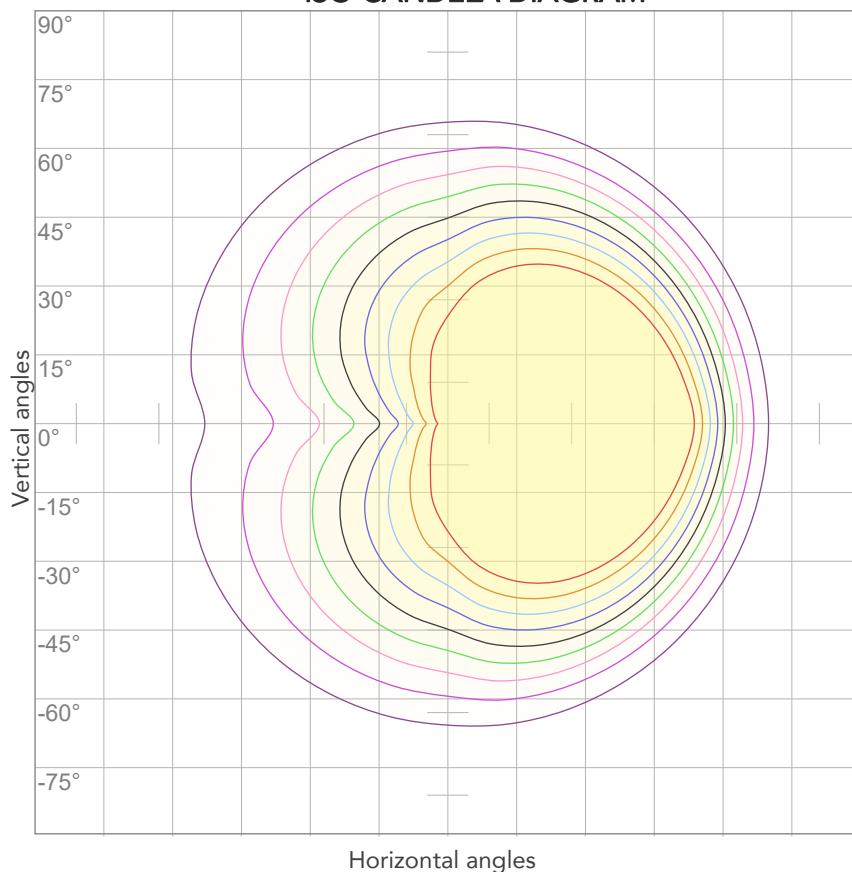


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	1,34A	295,6W	0,97	45lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



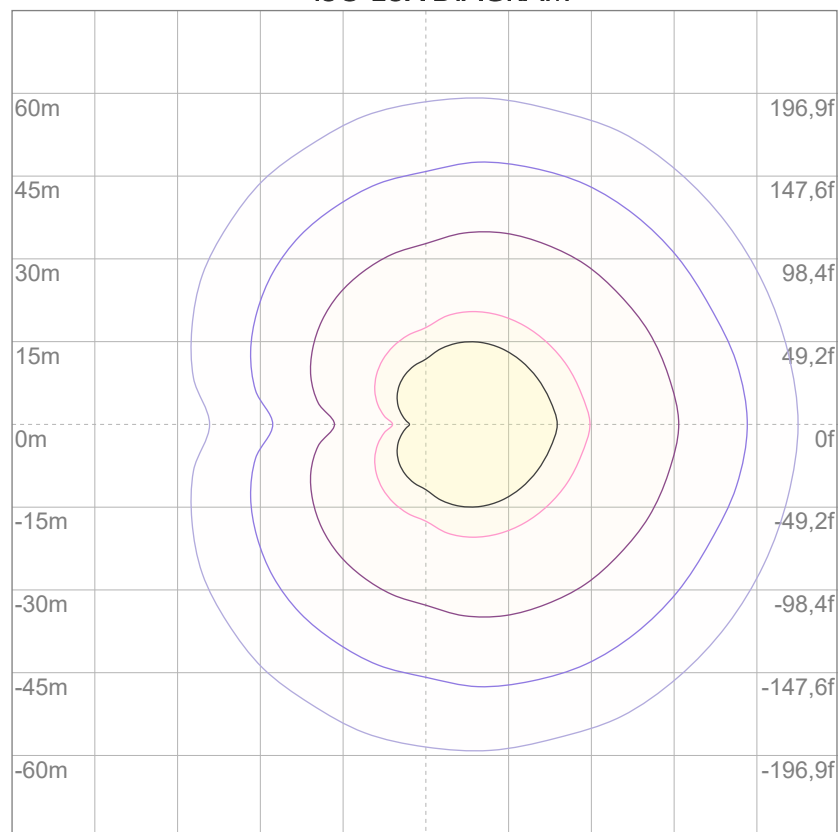
10%	477 cd
20%	954 cd
30%	1431 cd
40%	1908 cd
50%	2385 cd
60%	2862 cd
70%	3338 cd
80%	3815 cd

Conditions:

Number of c-planes: 4

Candela at center: 4769 cd

ISO LUX DIAGRAM



3%	1,43 lx
5%	2,38 lx
10%	4,77 lx
30%	14,3 lx
50%	23,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 47,7 lx

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