

Photometric Test Report



EclExpoFlood 300IPVW

IP65 300W asymmetric LED floodlight, with
Variable White CCT 2,700K - 6,500K

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TESTING PROCESS

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

Prolights measurement instrument

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

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

Prolights measurement software

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

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



Total lumen output:

20291 lm

Peak candela output:

14059 cd

Light quality:

CRI: 92,6

Color temperature:

4257 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

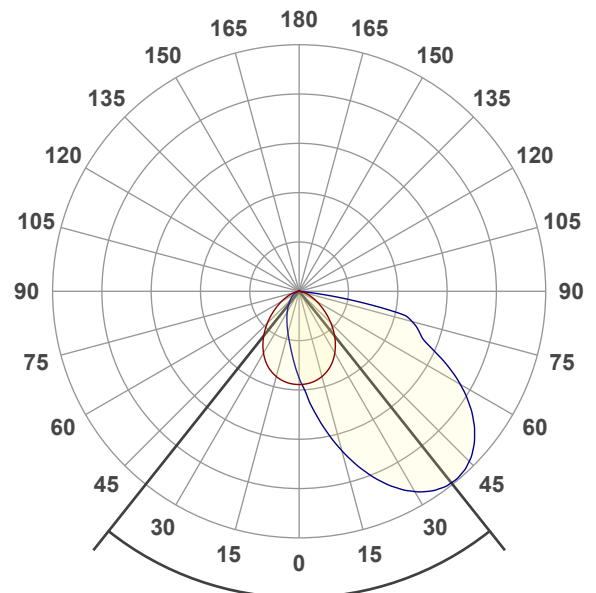
Full On

Operator:

Giuseppe della Peruta

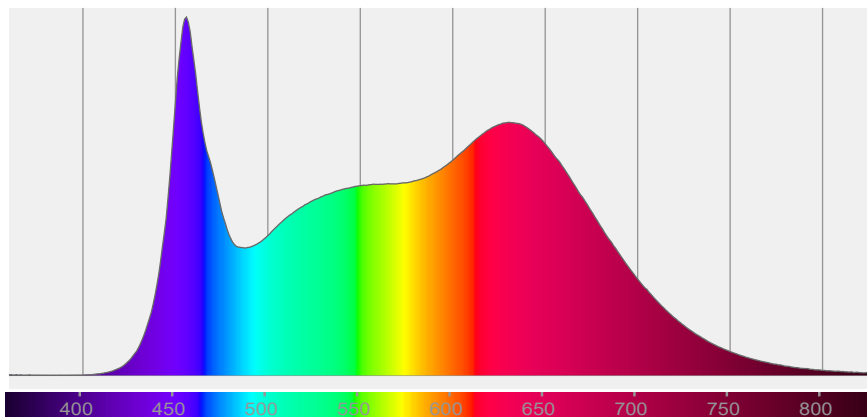
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09/09/2025 11:35:57

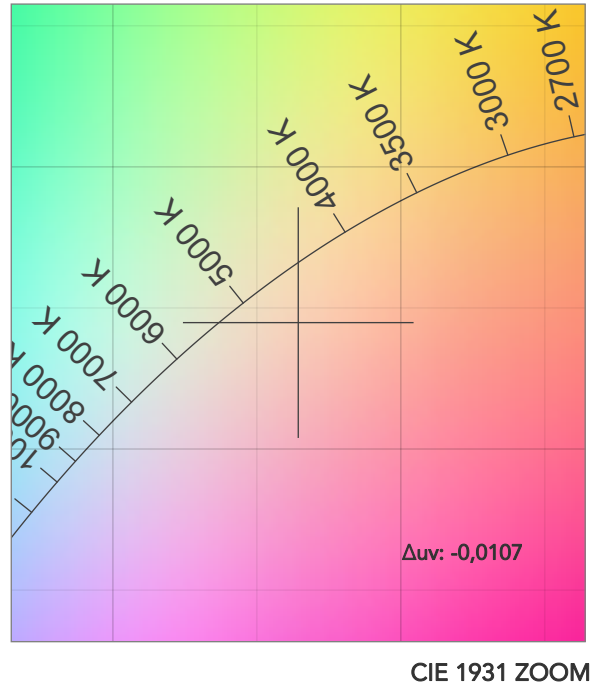
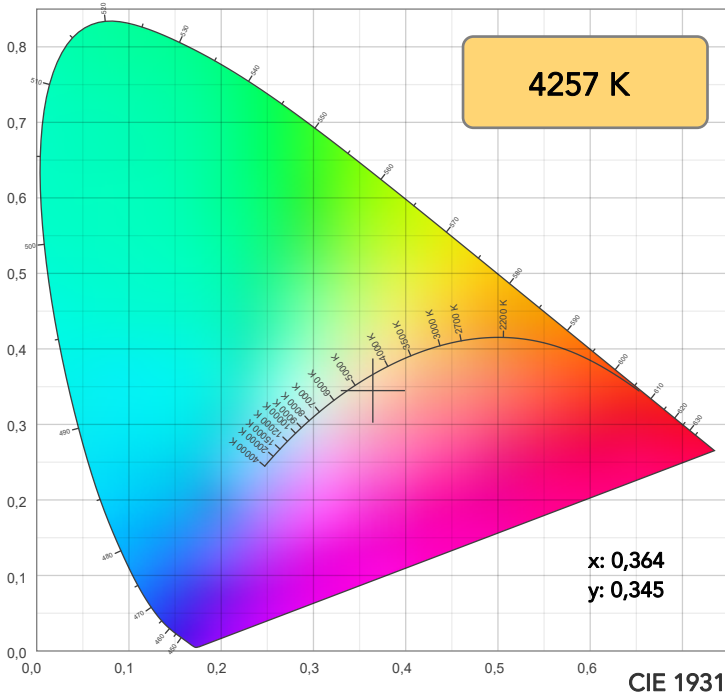


	Blue curve V	Red curve H
Beam angle 50%:	65,7°	88,2°
Field angle 10%:	111,6°	140,1°
Cut off angle 2.5%:	144,8°	159,5°

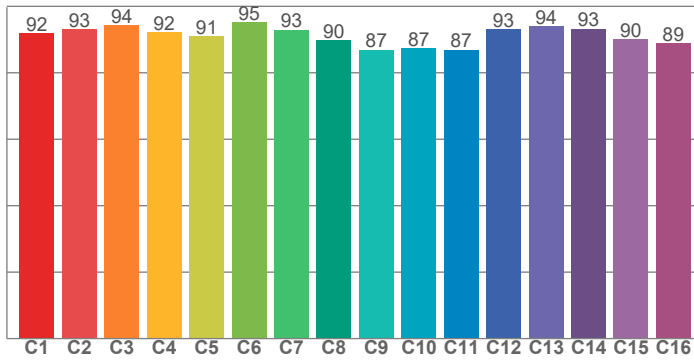
Spectra



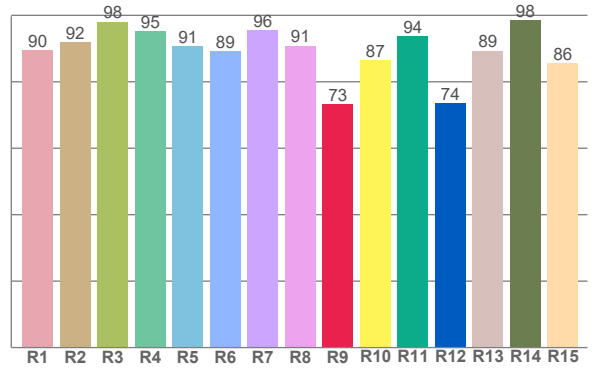
COLOR DETAILS



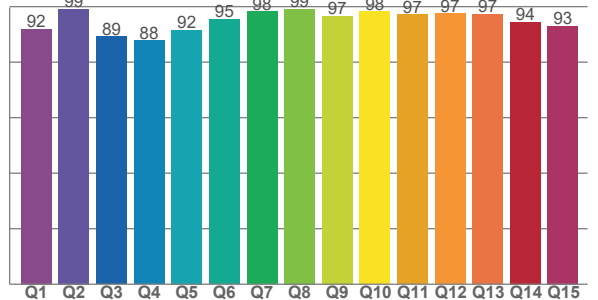
TM30: 91,1



CRI: 92,6 (R1-R8)



CQS: 94,0



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
89,6	91,9	98,1	95,2	90,7	89,3	95,6	90,9	73,2	86,6	93,8	73,6	89,4	98,5	85,7

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
91,8	93,1	94,3	92,3	90,9	95,2	92,9	89,7	87,0	87,4	86,9	93,0	94,0	93,3	90,1	88,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,9	99,1	89,2	87,8	91,5	95,5	98,3	99,1	96,6	98,2	97,1	97,5	97,3	94,5	92,9

COLOR PARAMETERS

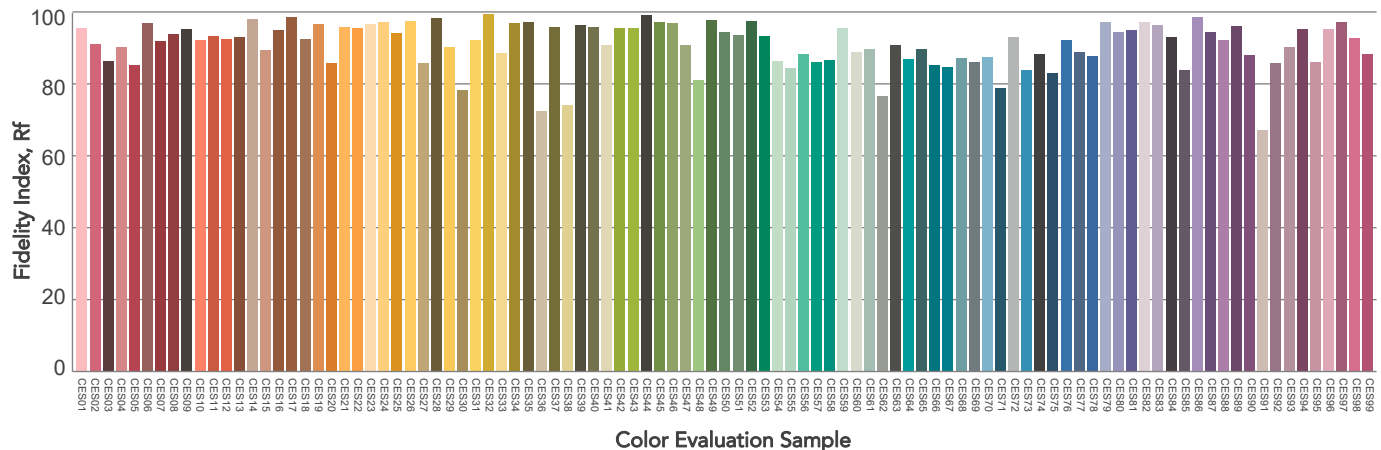
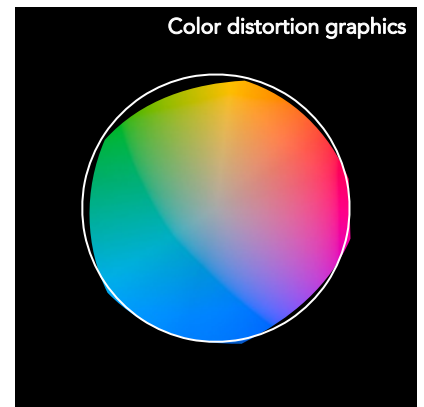
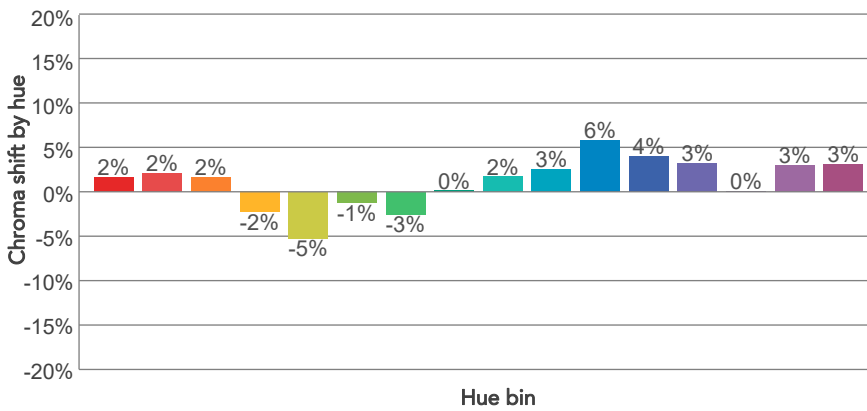
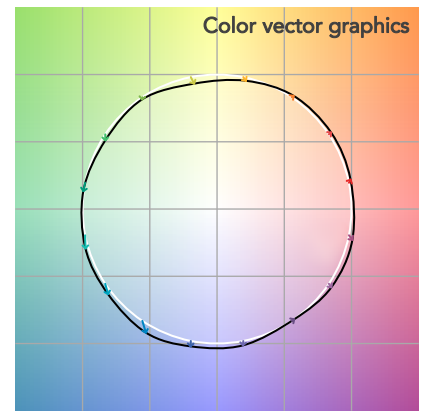
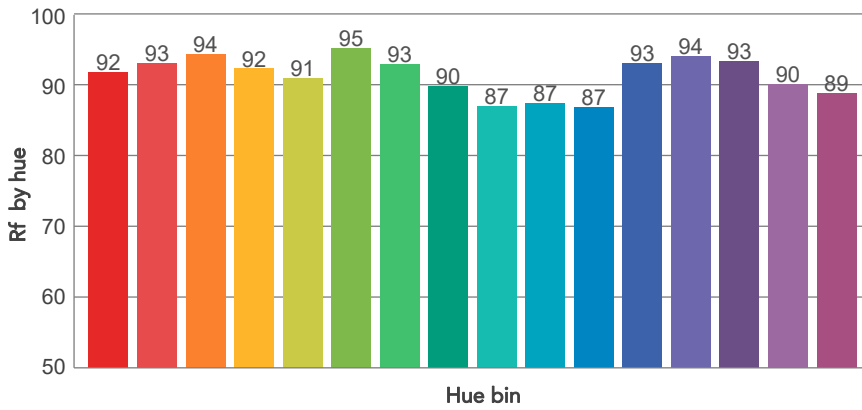
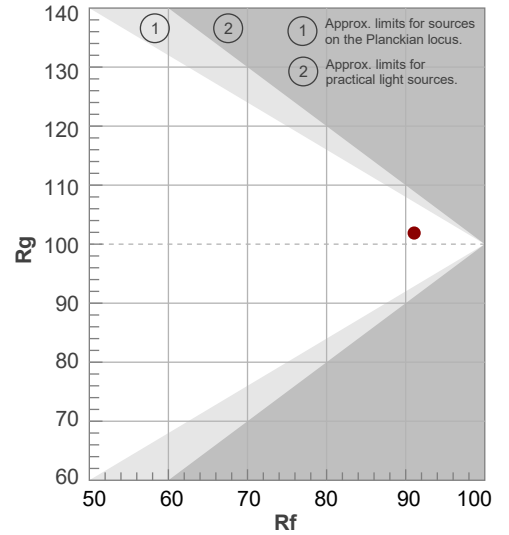
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4257 K	92,6	73,2	91,1	101,9	94,0	98	0,364	0,345	-0,0107

TM30 DETAILS

Rf 91,1
Fidelity index Rf

Rg 101,9
Gammut index

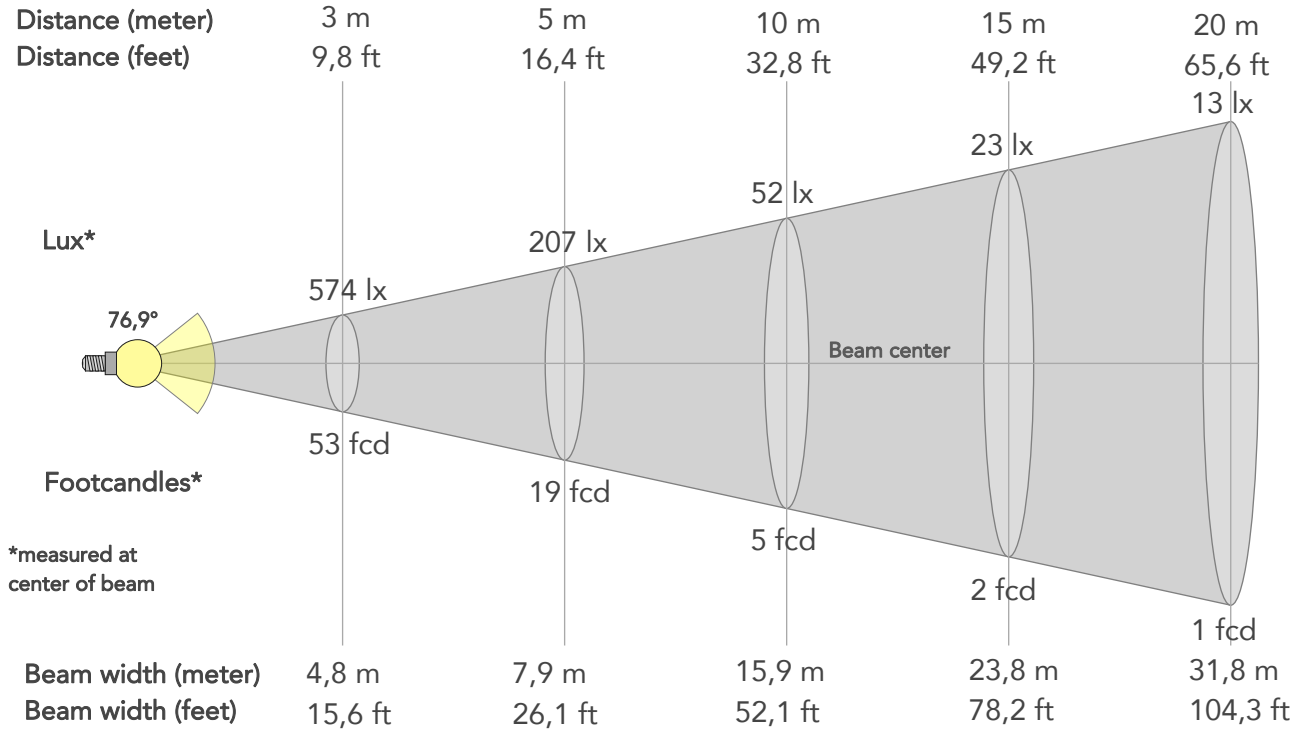
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	2%
2	93	2%	0%
3	94	2%	-1%
4	92	-2%	-2%
5	91	-5%	-1%
6	95	-1%	1%
7	93	-3%	4%
8	90	0%	6%
9	87	2%	10%
10	87	3%	8%
11	87	6%	7%
12	93	4%	1%
13	94	3%	-1%
14	93	0%	2%
15	90	3%	-1%
16	89	3%	-3%



BEAM DETAILS



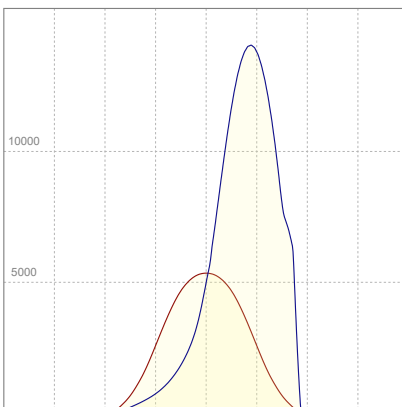
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76,9°	125,8°	152,2°	76,3%	49,7%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5164lx	1291lx	574lx	323lx	207lx	92lx	52lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	480fcd	120fcd	53fcd	30fcd	19fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	7,9m	11,9m	15,9m	23,8m	31,8m	39,7m	47,7m	63,6m	79,5m
Beam wid.	5,2ft	10,5ft	15,6ft	20,8ft	26,1ft	39,1ft	52,1ft	78,2ft	104,3ft	130,3ft	156,4ft	208,5ft	260,6ft

LINEAR DISTRIBUTION DIAGRAM

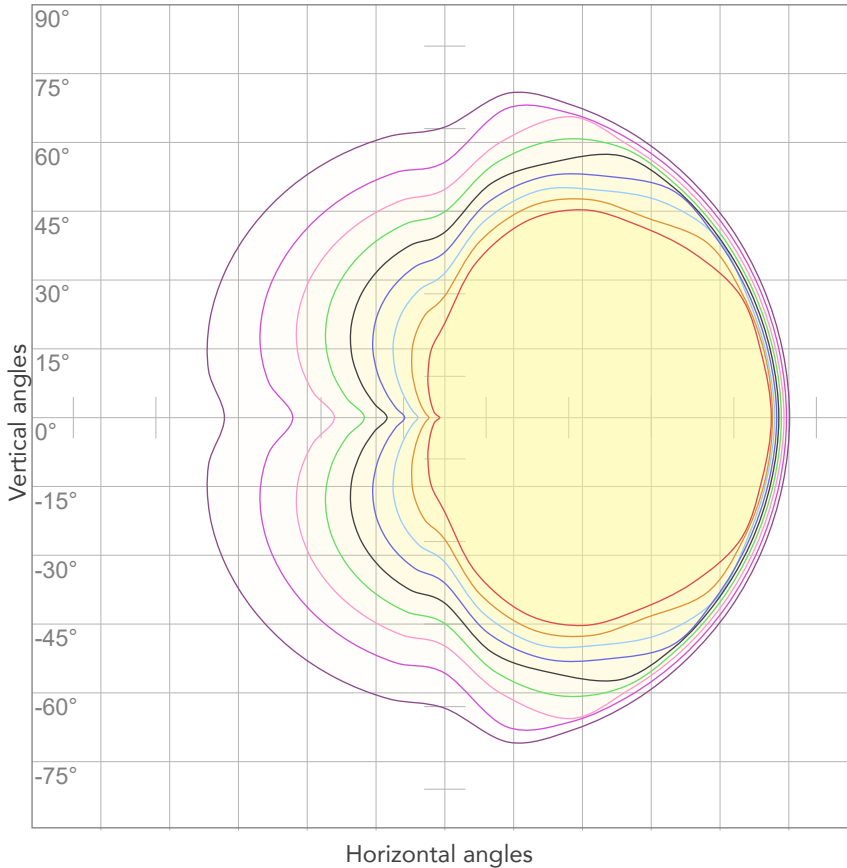


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	1,46A	321,8W	0,97	63lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



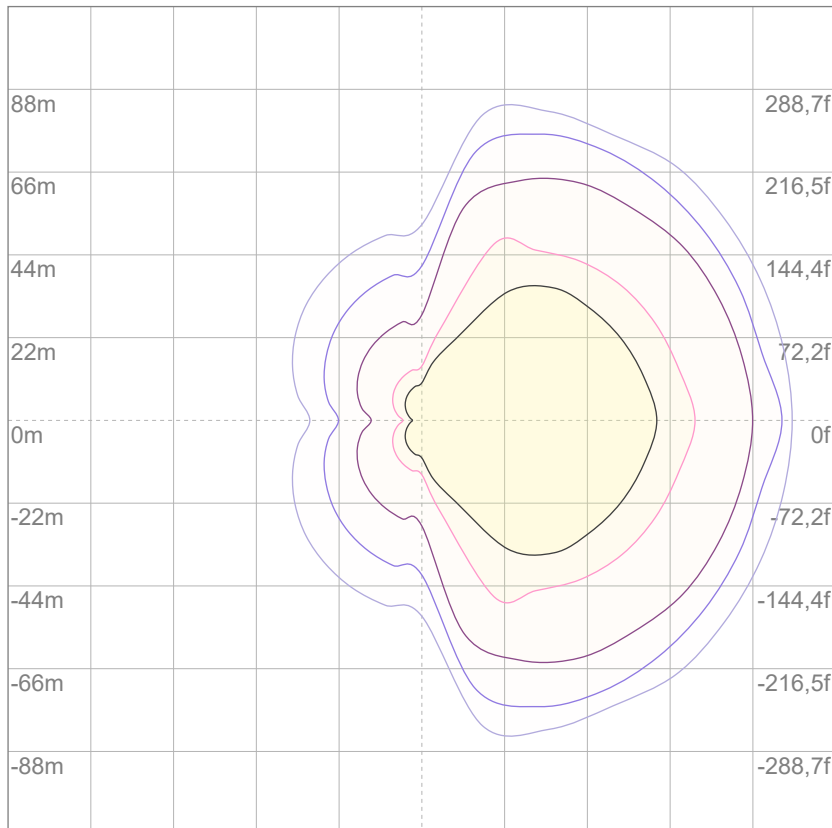
10%	516 cd
20%	1033 cd
30%	1549 cd
40%	2066 cd
50%	2582 cd
60%	3099 cd
70%	3615 cd
80%	4131 cd

Conditions:

Number of c-planes: 4

Candela at center: 5164 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,55 lx
5%	2,58 lx
10%	5,16 lx
30%	15,5 lx
50%	25,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 51,6 lx

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



Total lumen output:

12235 lm

Peak candela output:

8462 cd

Light quality:

CRI: 96,1

Color temperature:

2673 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

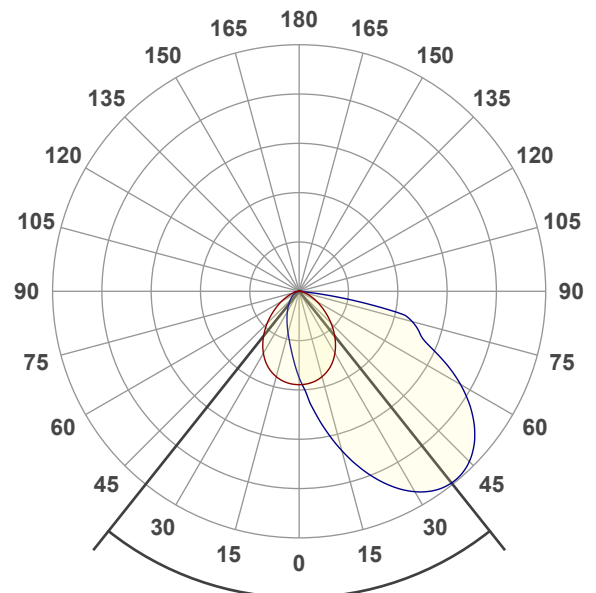
Warm White

Operator:

Giuseppe della Peruta

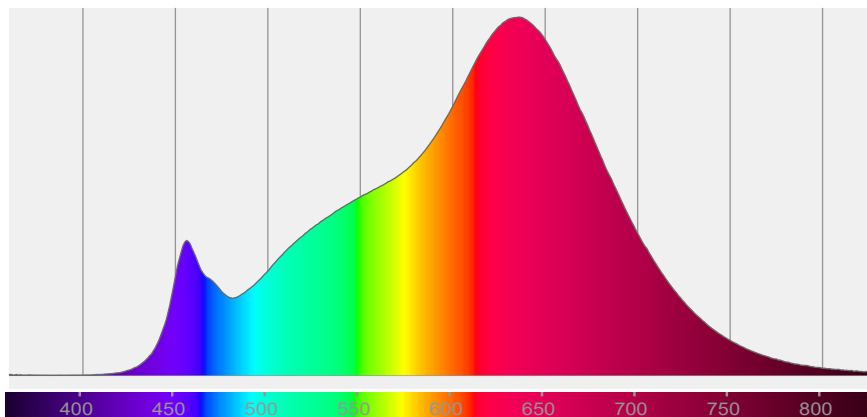
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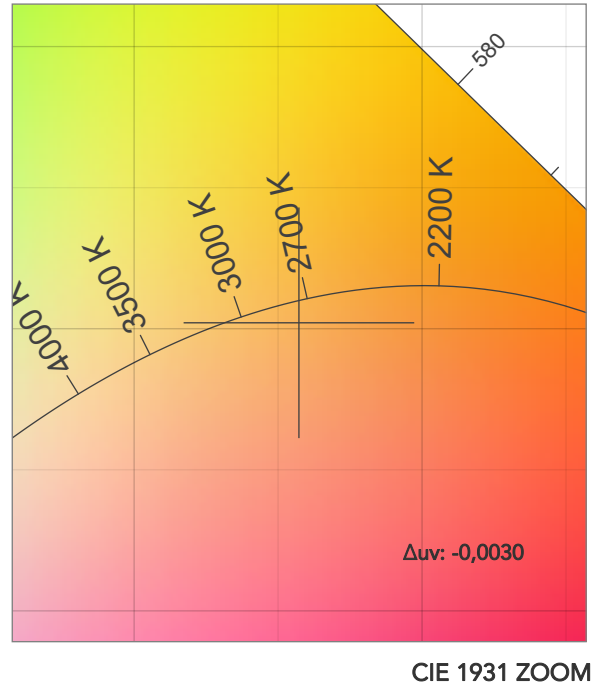
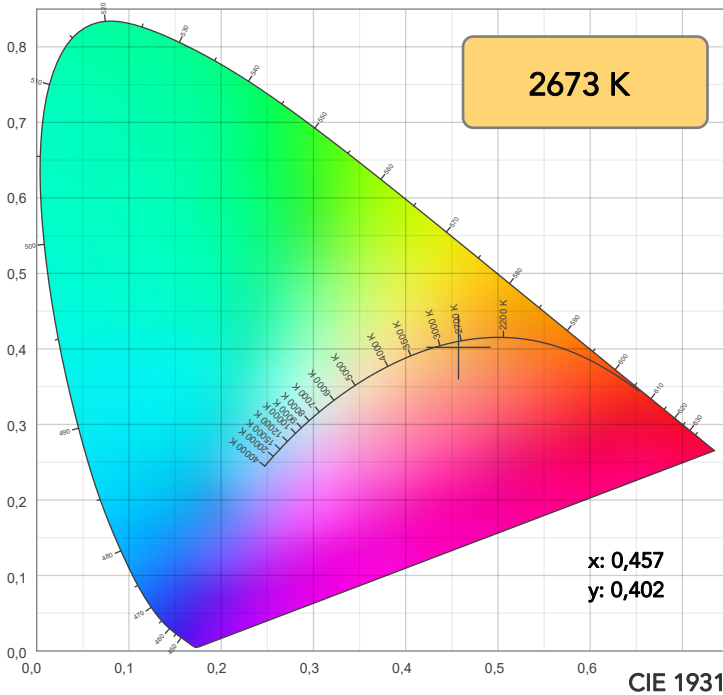


	Blue curve V	Red curve H
Beam angle 50%:	65,6°	88,4°
Field angle 10%:	111,5°	140,1°
Cut off angle 2.5%:	144,7°	159,6°

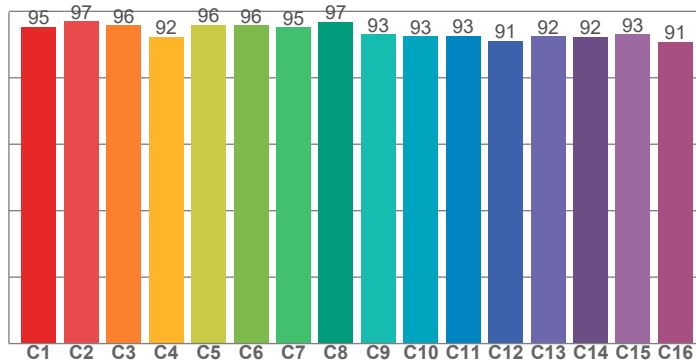
Spectra



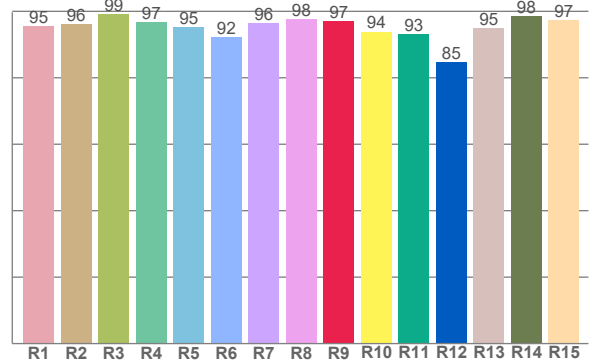
COLOR DETAILS



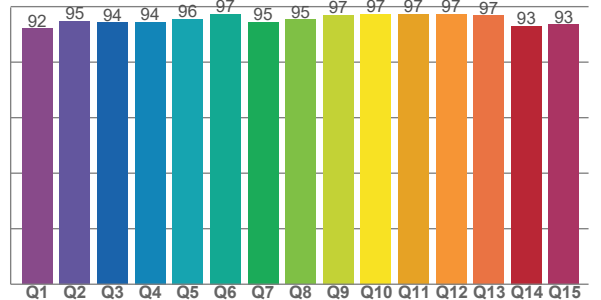
TM30: 93,9



CRI: 96,1 (R1-R8)



CQS: 94,8



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
95,4	96,2	99,1	96,6	95,1	92,3	96,4	97,7	97,0	93,9	93,0	84,8	94,9	98,4	97,3

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,4	97,0	95,7	92,4	96,0	95,9	95,2	96,8	93,2	92,5	92,7	91,2	92,4	92,4	93,1	90,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	94,8	94,2	94,4	95,5	97,4	94,5	95,4	96,9	97,3	97,3	97,4	96,8	93,1	93,5

COLOR PARAMETERS

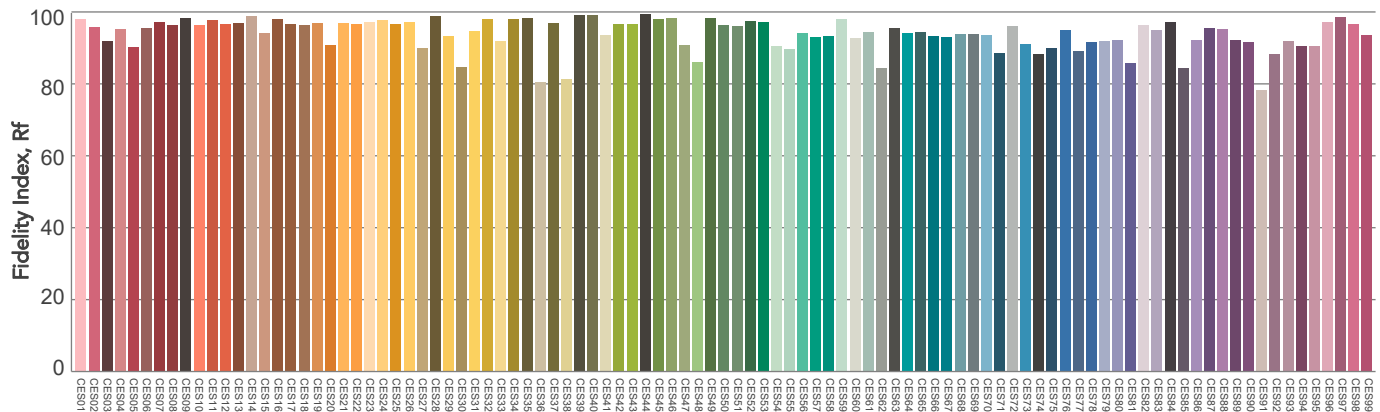
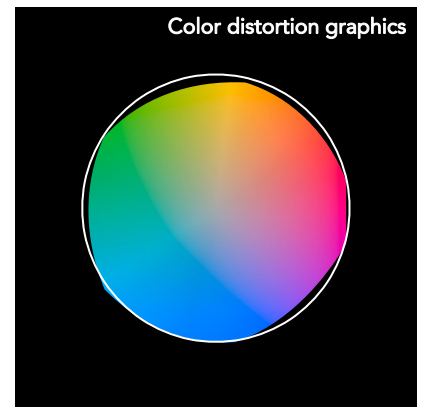
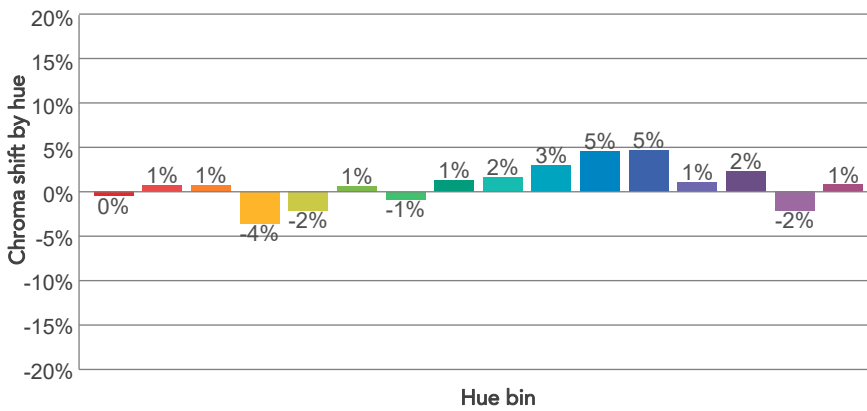
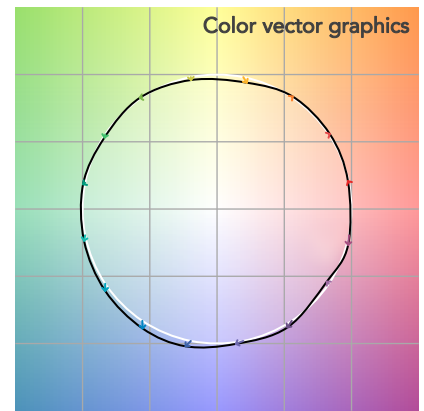
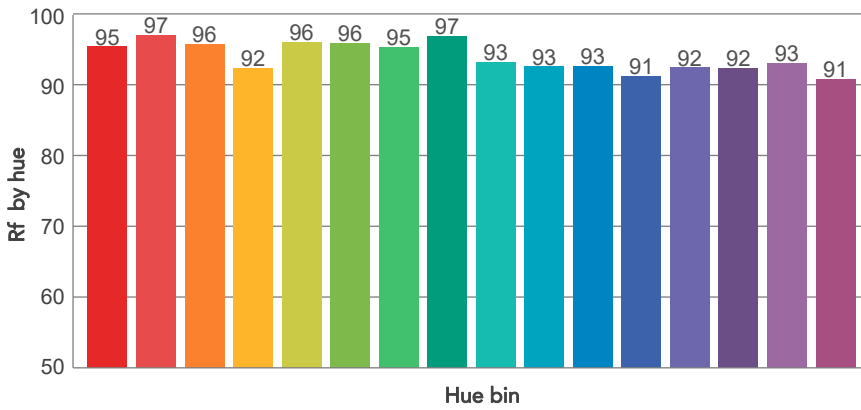
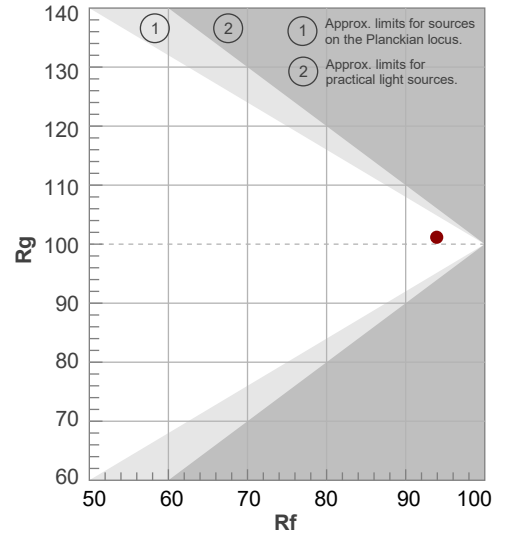
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2673 K	96,1	97,0	93,9	101,2	94,8	97	0,457	0,402	-0,0030

TM30 DETAILS

Rf 93,9
Fidelity index Rf

Rg 101,2
Gammut index

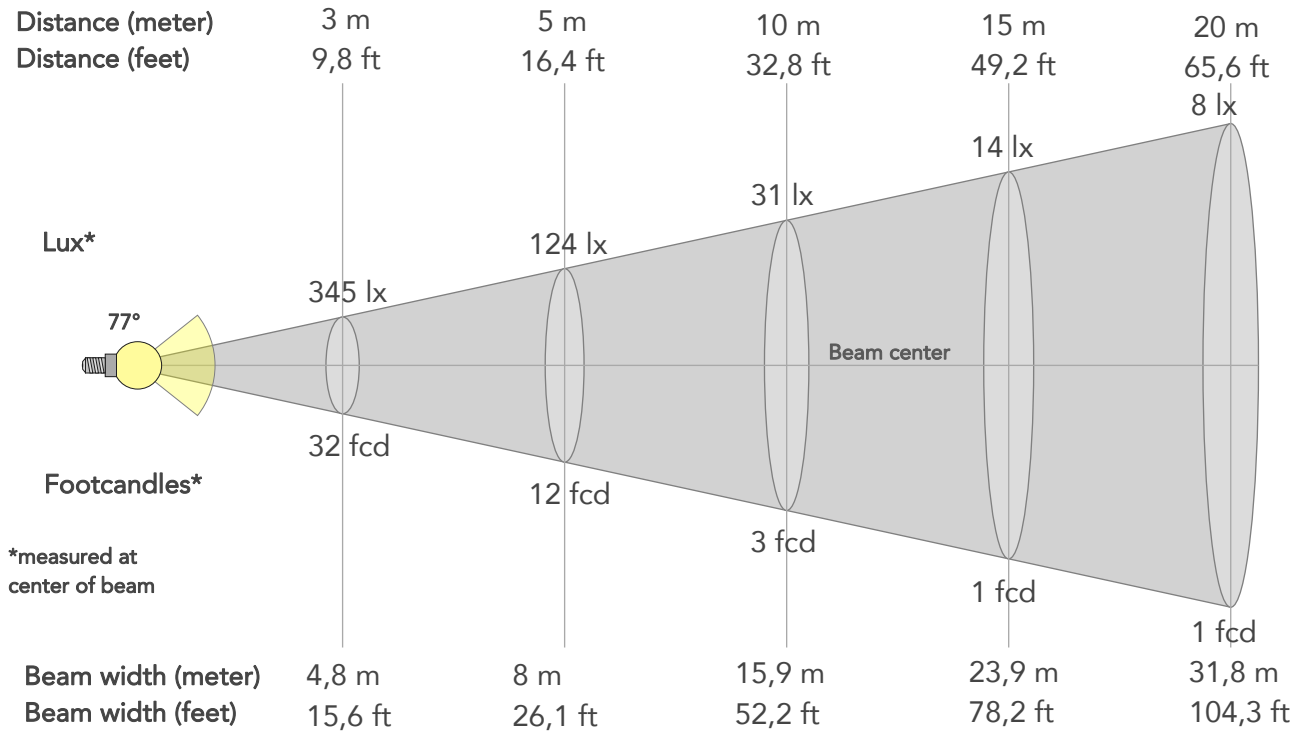
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	1%
2	97	1%	0%
3	96	1%	0%
4	92	-4%	-3%
5	96	-2%	0%
6	96	1%	2%
7	95	-1%	2%
8	97	1%	1%
9	93	2%	4%
10	93	3%	4%
11	93	5%	3%
12	91	5%	-3%
13	92	1%	-6%
14	92	2%	-5%
15	93	-2%	0%
16	91	1%	-7%



BEAM DETAILS



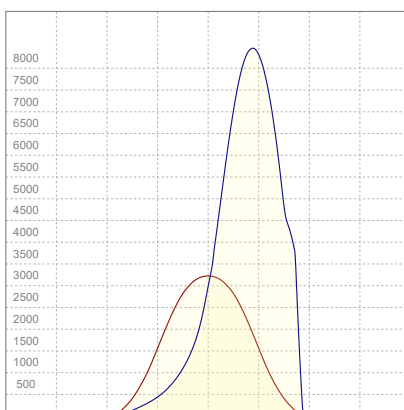
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77°	125,8°	152,2°	76,3%	49,6%



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	3103lx	776lx	345lx	194lx	124lx	55lx	31lx	14lx	8lx	5lx	3lx	2lx	1lx
Footcand.	288fcd	72fcd	32fcd	18fcd	12fcd	5fcd	3fcd	1fcd	1fcd	0fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	11,9m	15,9m	23,9m	31,8m	39,8m	47,7m	63,6m	79,5m
Beam wid.	5,2ft	10,5ft	15,6ft	20,8ft	26,1ft	39,1ft	52,2ft	78,2ft	104,3ft	130,4ft	156,5ft	208,7ft	260,8ft

LINEAR DISTRIBUTION DIAGRAM

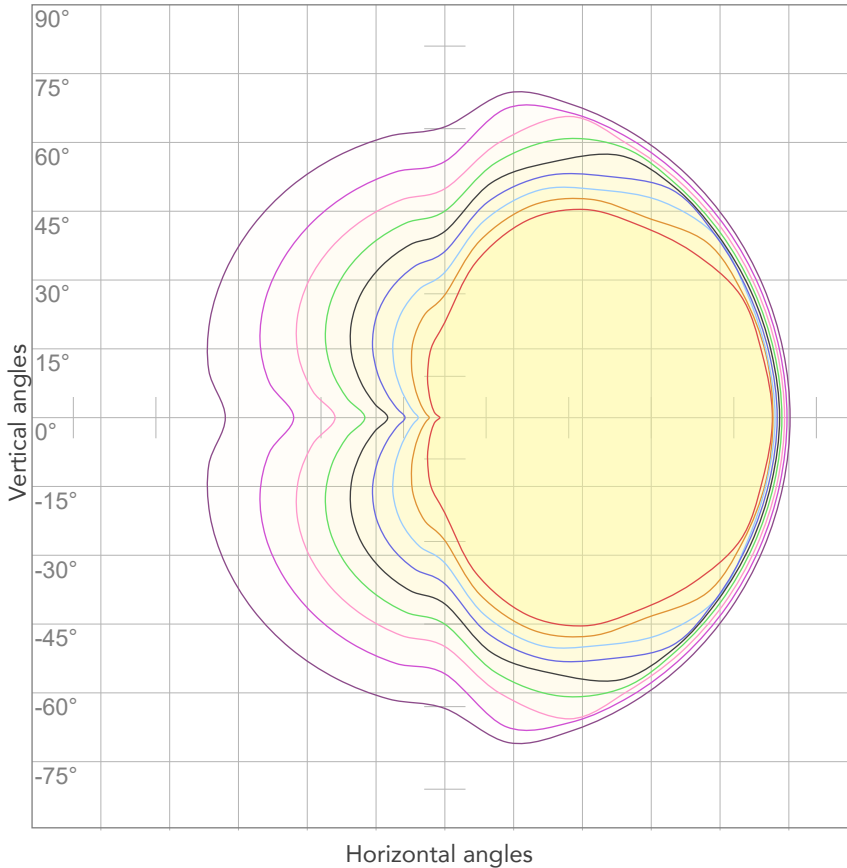


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	1,03A	221,7W	0,95	55lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



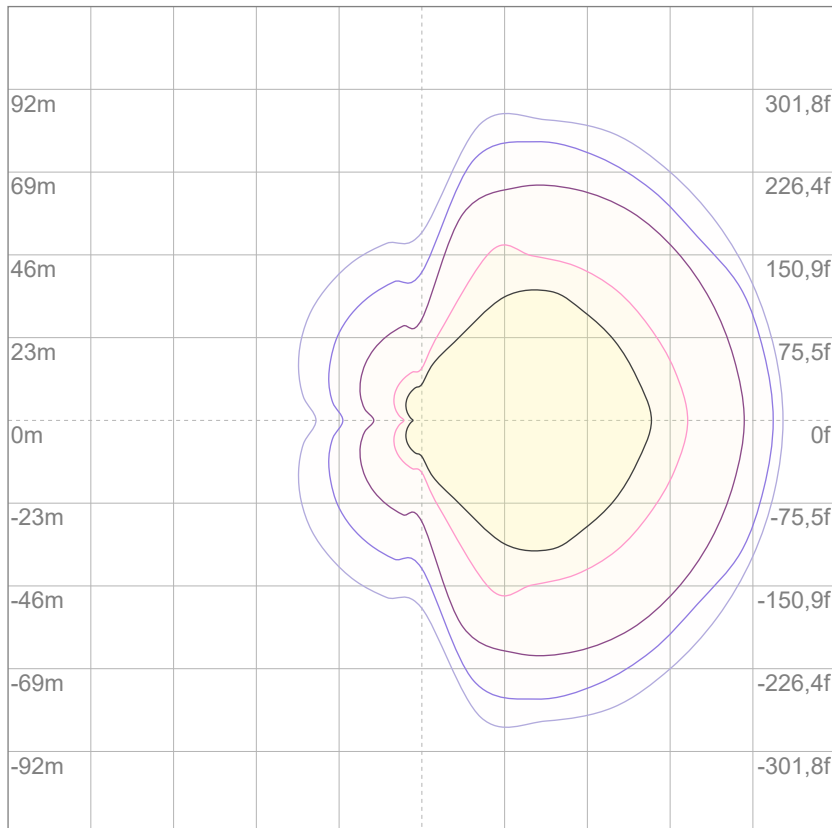
10%	310 cd
20%	621 cd
30%	931 cd
40%	1241 cd
50%	1552 cd
60%	1862 cd
70%	2172 cd
80%	2482 cd

Conditions:

Number of c-planes: 4

Candela at center: 3103 cd

ISO LUX DIAGRAM



3%	0,931 lx
5%	1,55 lx
10%	3,10 lx
30%	9,31 lx
50%	15,5 lx

Conditions:

Number of c-planes: 4

Lux at center: 31,0 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

15961 lm

Peak candela output:

11056 cd

Light quality:

CRI: 93,8

Color temperature:

6828 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

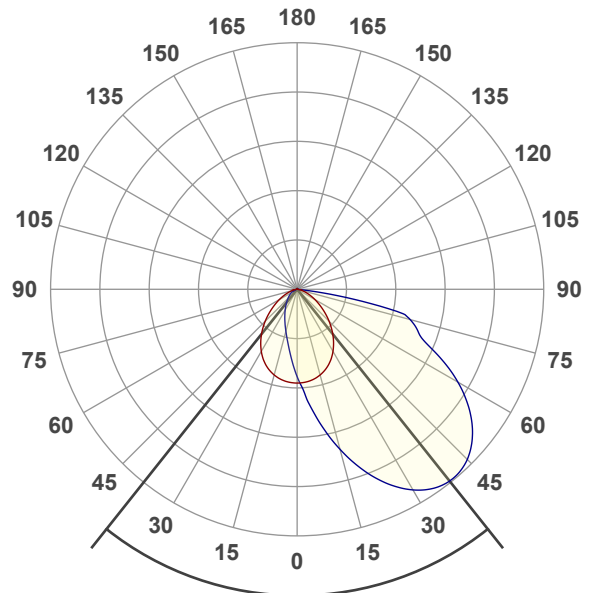
Cold White

Operator:

Giuseppe della Peruta

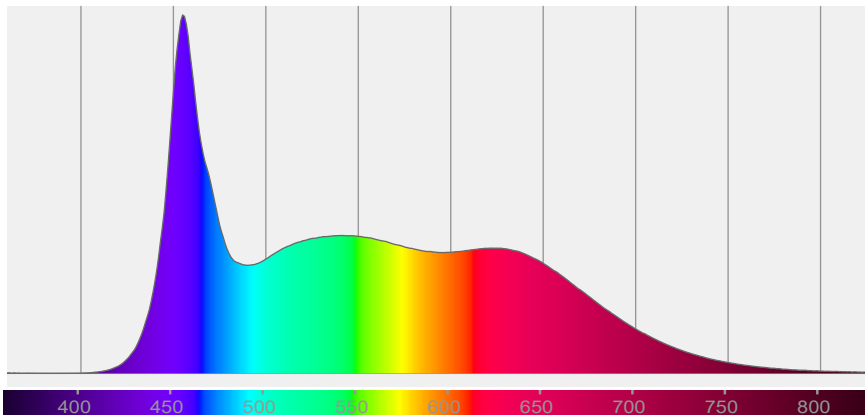
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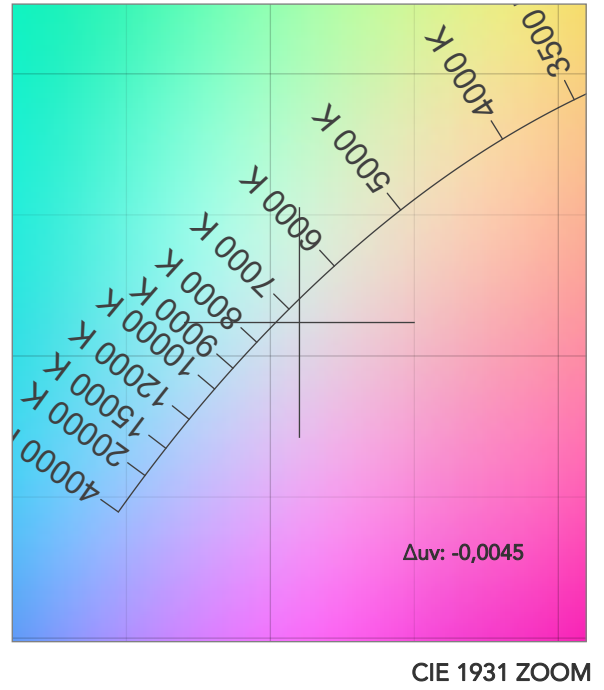
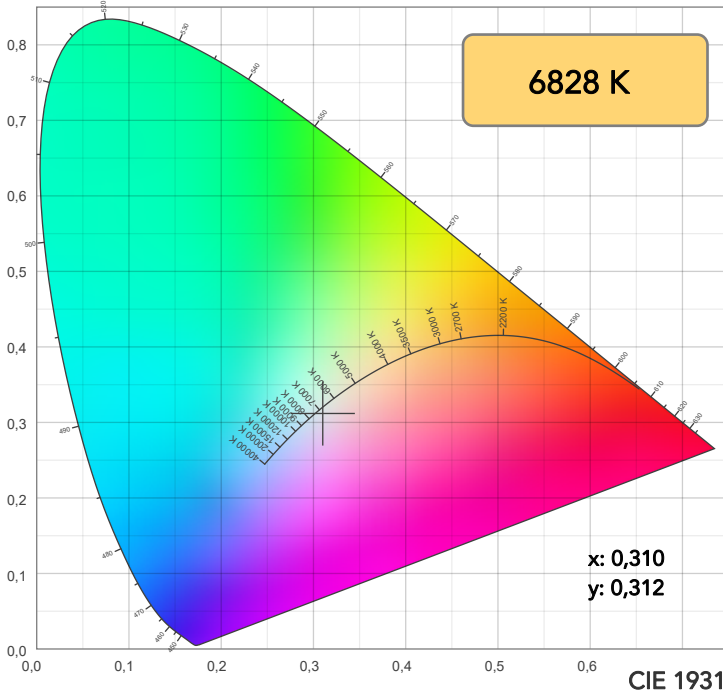


	Blue curve V	Red curve H
Beam angle 50%:	65,8°	88,2°
Field angle 10%:	111,6°	140,1°
Cut off angle 2.5%:	144,8°	159,4°

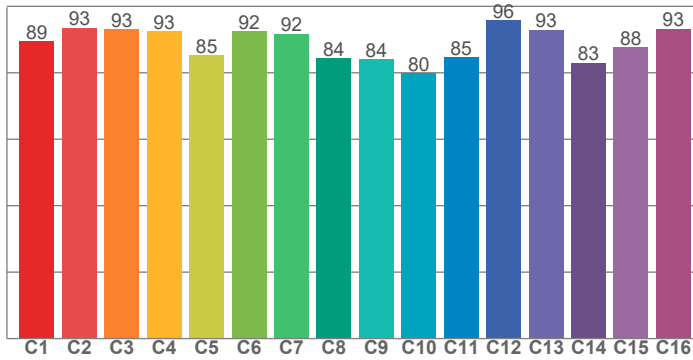
Spectra



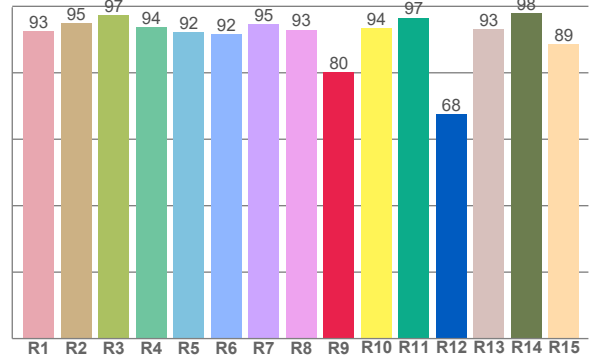
COLOR DETAILS



TM30: 88,9



CRI: 93,8 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,6	94,9	97,3	93,8	92,3	91,6	94,5	93,0	80,2	93,5	96,6	67,6	93,2	98,0	88,5

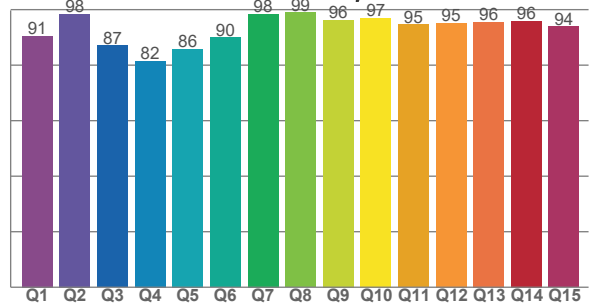
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,4	93,5	93,1	92,5	85,3	92,5	91,7	84,3	84,0	79,9	84,7	95,8	92,9	83,1	87,7	93,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90,6	98,4	87,0	81,5	85,7	89,9	98,4	99,0	96,2	97,0	94,7	95,2	95,6	95,9	93,9

CQS: 91,6



COLOR PARAMETERS

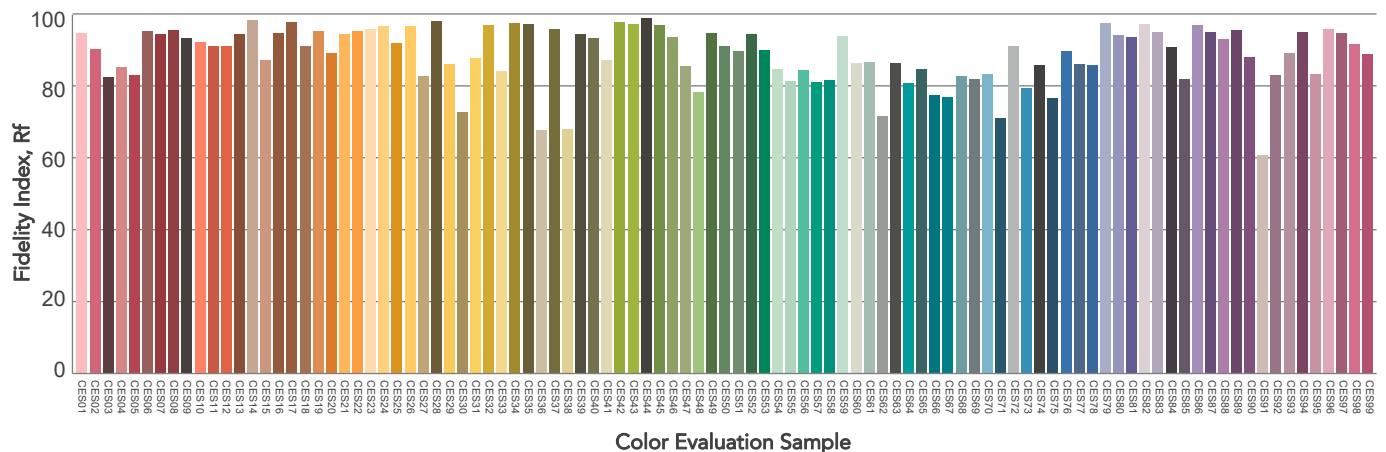
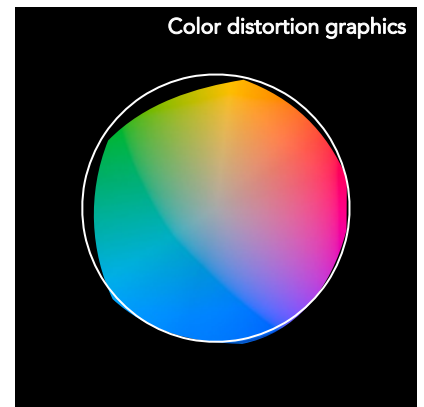
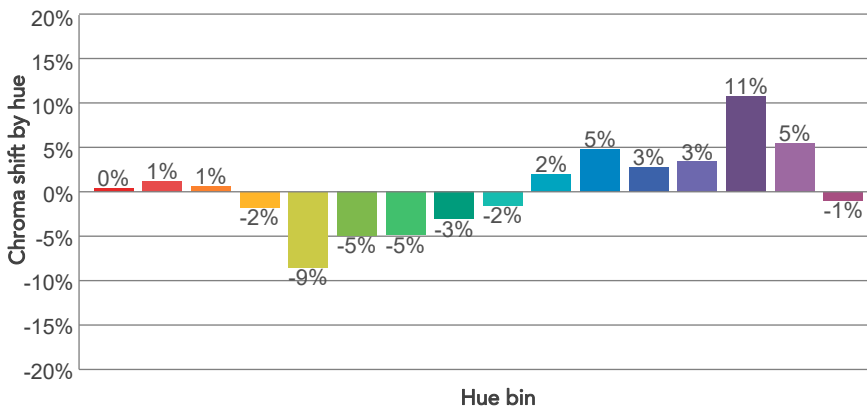
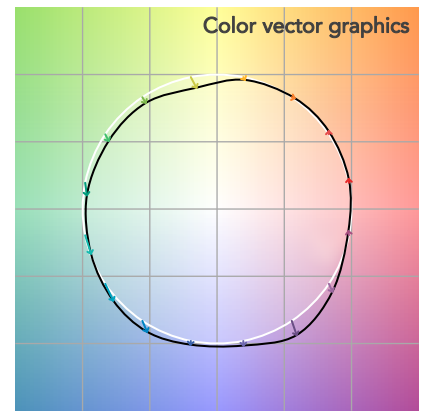
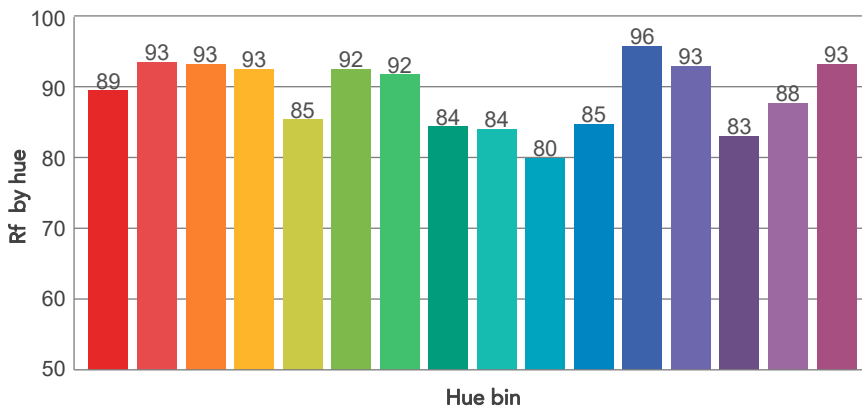
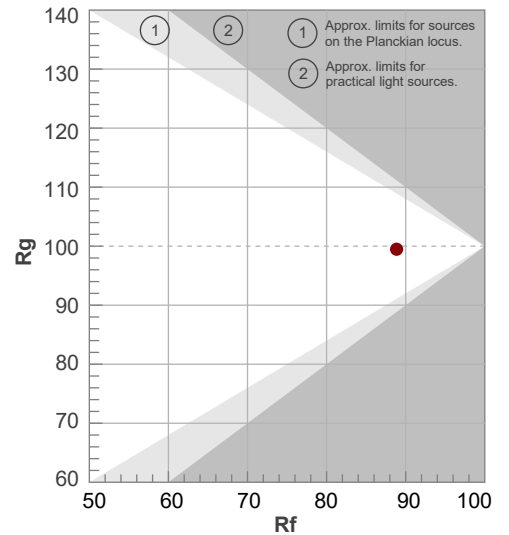
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6828 K	93,8	80,2	88,9	99,5	91,6	94	0,310	0,312	-0,0045

TM30 DETAILS

Rf 88,9
Fidelity index Rf

Rg 99,5
Gammut index

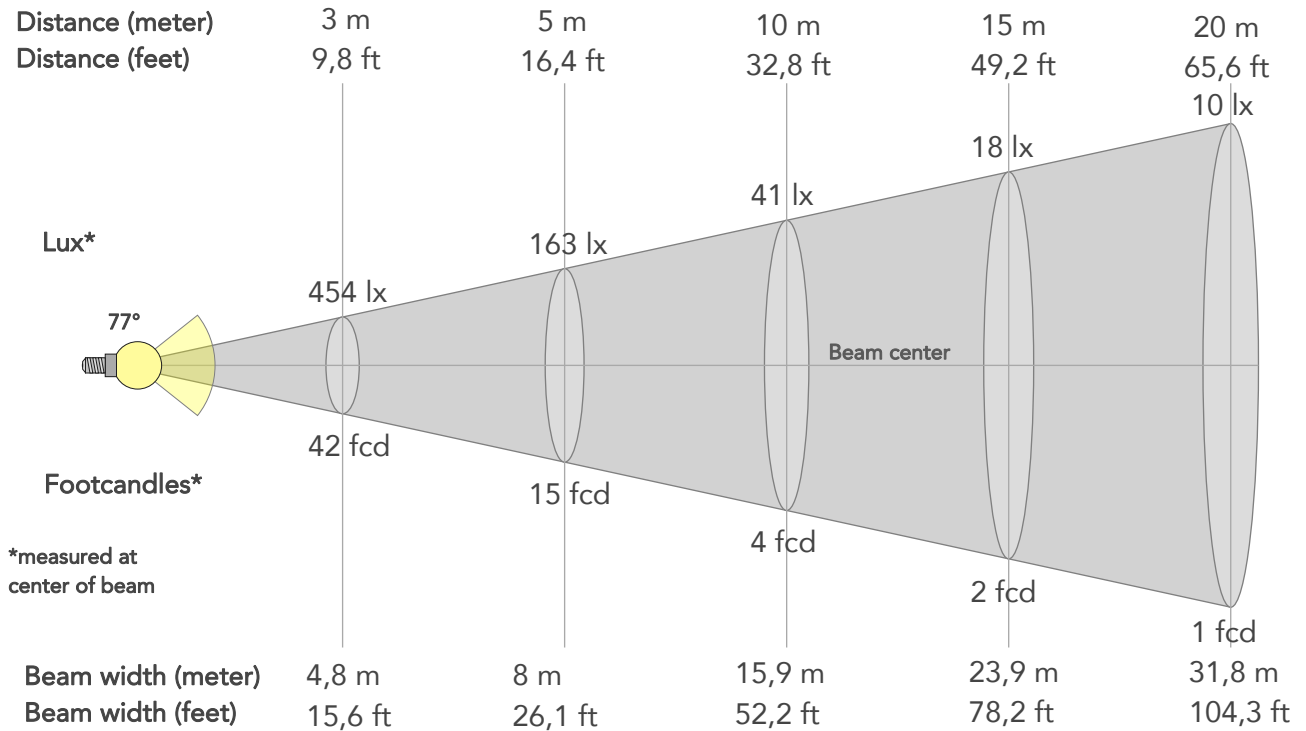
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	0%	3%
2	93	1%	2%
3	93	1%	-2%
4	93	-2%	-2%
5	85	-9%	-3%
6	92	-5%	0%
7	92	-5%	3%
8	84	-3%	9%
9	84	-2%	14%
10	80	2%	14%
11	85	5%	7%
12	96	3%	0%
13	93	3%	-1%
14	83	11%	-3%
15	88	5%	-3%
16	93	-1%	3%



BEAM DETAILS



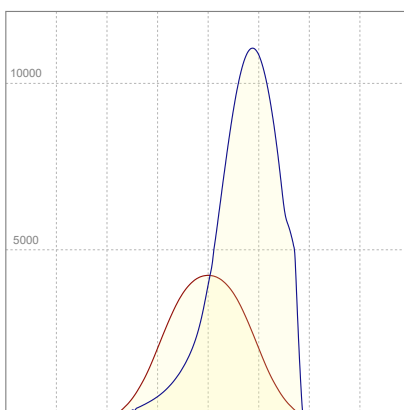
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77°	125,8°	152,1°	76,5%	49,8%



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	4086lx	1021lx	454lx	255lx	163lx	73lx	41lx	18lx	10lx	7lx	5lx	3lx	2lx
Footcand.	380fcd	95fcd	42fcd	24fcd	15fcd	7fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	11,9m	15,9m	23,9m	31,8m	39,8m	47,7m	63,6m	79,5m
Beam wid.	5,2ft	10,5ft	15,6ft	20,8ft	26,1ft	39,1ft	52,2ft	78,2ft	104,3ft	130,4ft	156,5ft	208,7ft	260,8ft

LINEAR DISTRIBUTION DIAGRAM

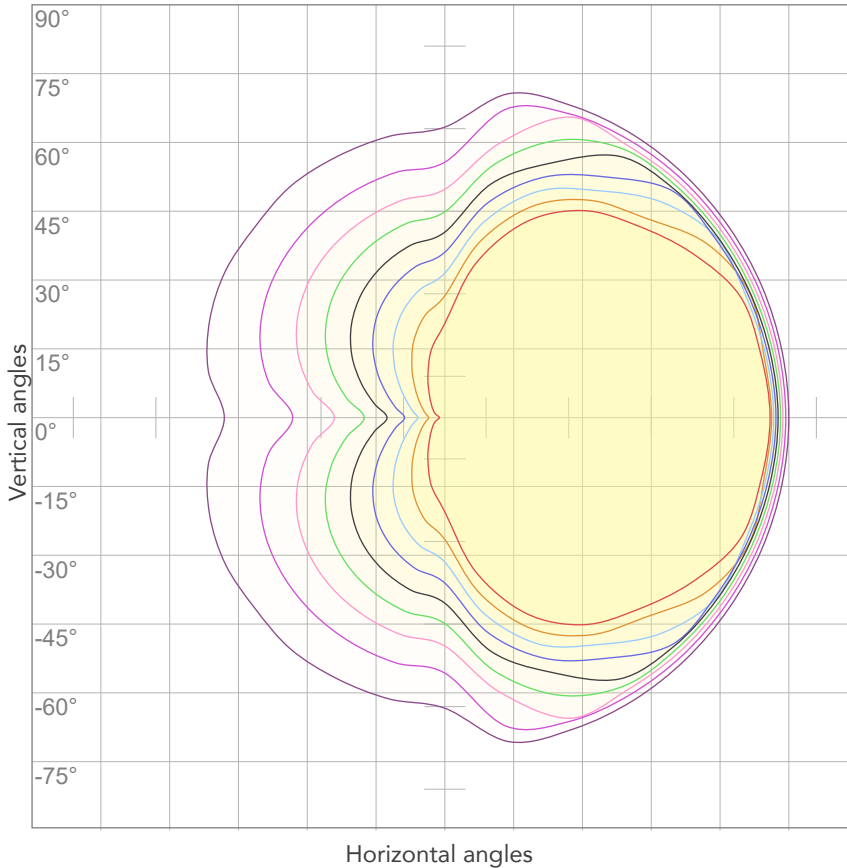


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	1,02A	220,8W	0,95	72lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



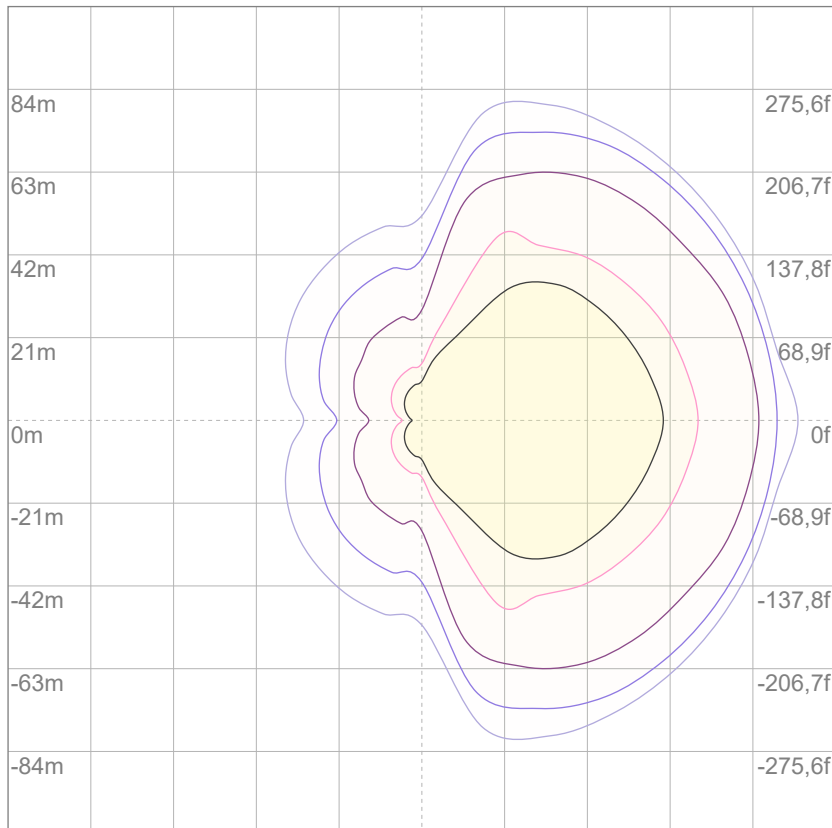
10%	409 cd
20%	817 cd
30%	1226 cd
40%	1634 cd
50%	2043 cd
60%	2452 cd
70%	2860 cd
80%	3269 cd

Conditions:

Number of c-planes: 4

Candela at center: 4086 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,23 lx
5%	2,04 lx
10%	4,09 lx
30%	12,3 lx
50%	20,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 40,9 lx

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



Total lumen output:

12571 lm

Peak candela output:

8853 cd

Light quality:

CRI: 95,3

Color temperature:

2791 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

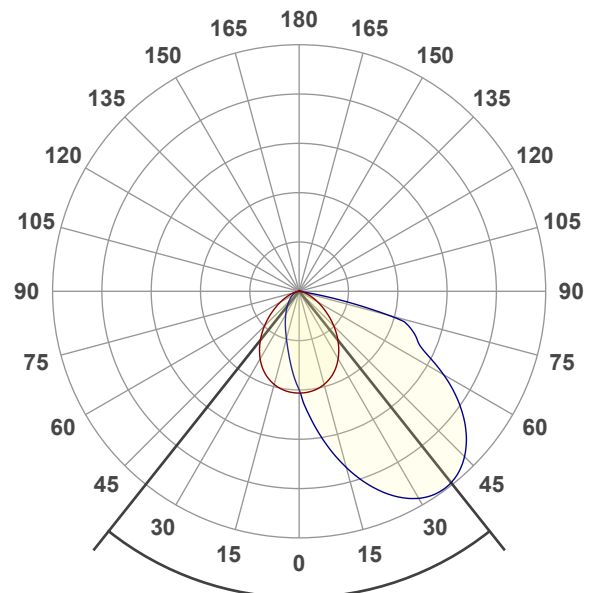
2800K

Operator:

Giuseppe della Peruta

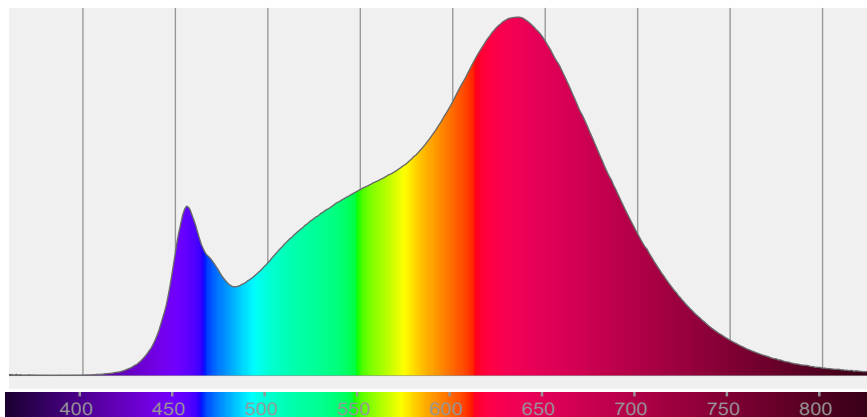
Date and time:

09/09/2025 12:25:41

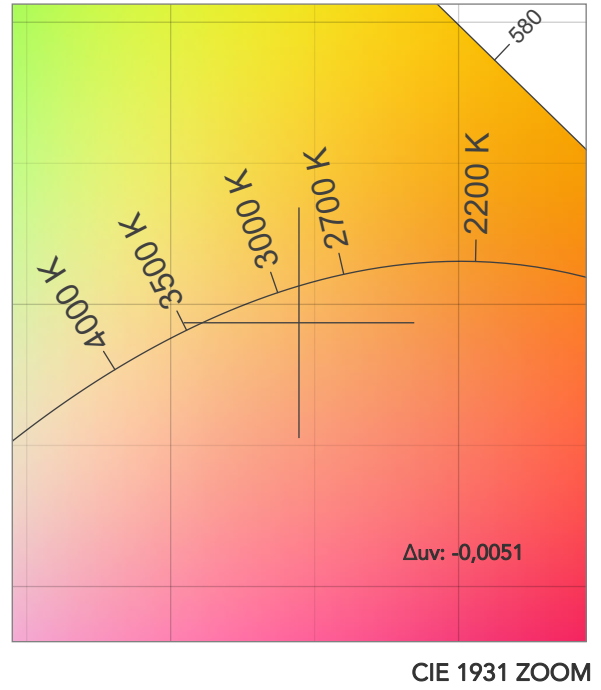
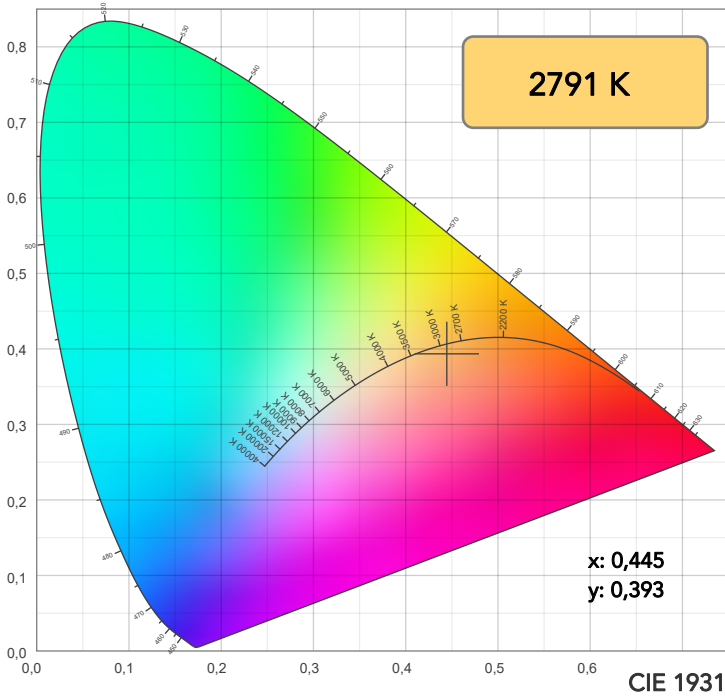


	Blue curve V	Red curve H
Beam angle 50%:	65,6°	88,2°
Field angle 10%:	111,4°	138,8°
Cut off angle 2.5%:	144,7°	158,6°

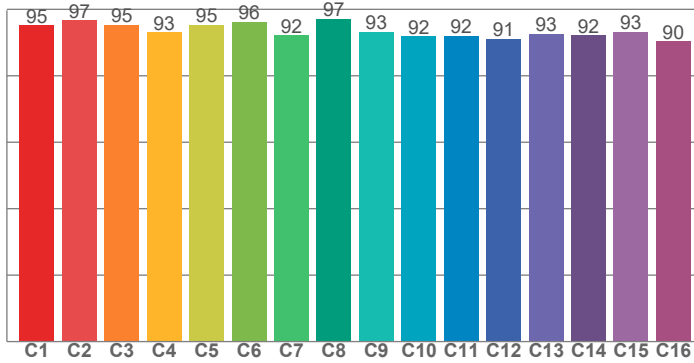
Spectra



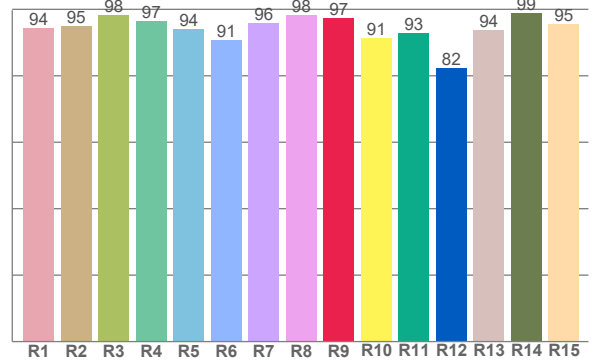
COLOR DETAILS



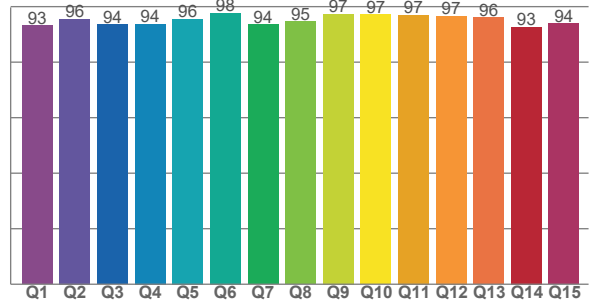
TM30: 93,7



CRI: 95,3 (R1-R8)



CQS: 94,8



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,3	94,9	98,3	96,5	94,0	90,7	95,9	98,2	97,4	91,2	92,9	82,2	93,6	98,9	95,5

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
95,3	96,6	95,4	93,1	95,3	96,3	92,1	97,1	93,2	91,9	92,1	91,1	92,6	92,3	93,2	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	95,5	93,5	93,8	95,6	97,6	93,6	94,7	97,3	97,2	96,9	96,7	96,2	92,7	93,8

COLOR PARAMETERS

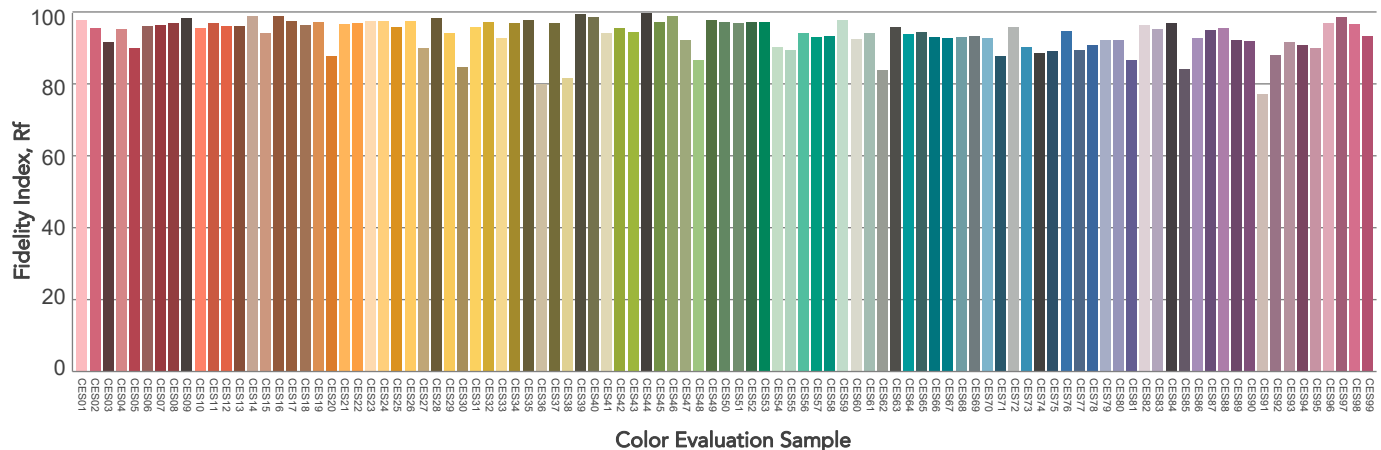
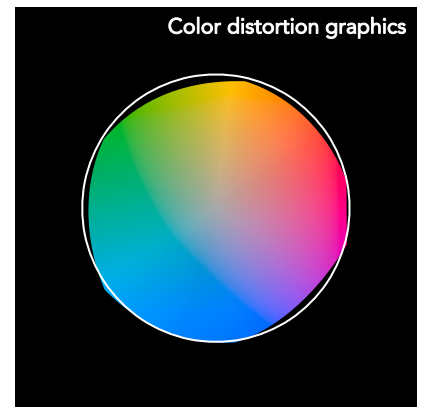
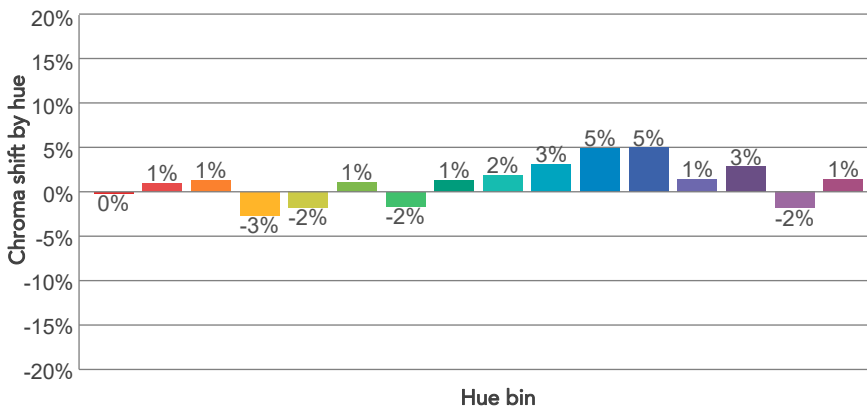
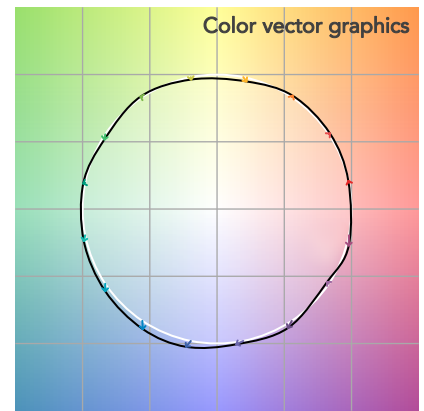
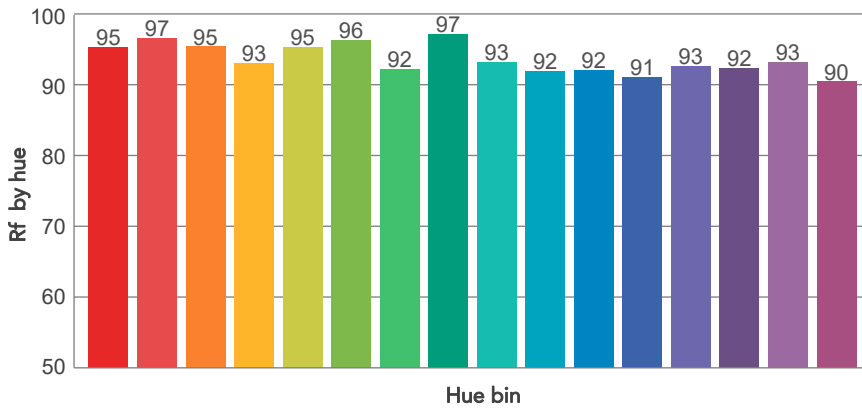
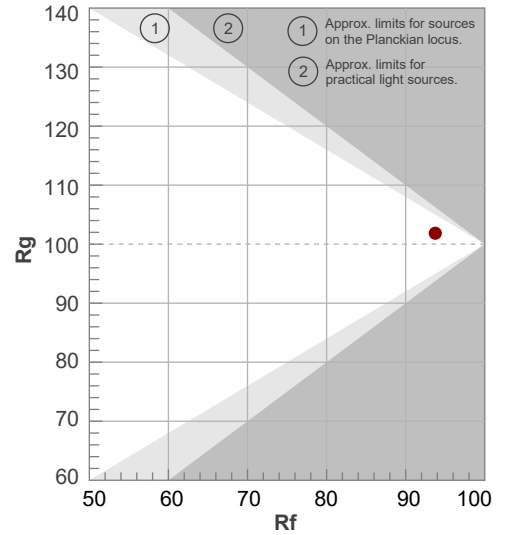
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2791 K	95,3	97,4	93,7	101,9	94,8	97	0,445	0,393	-0,0051

TM30 DETAILS

Rf 93,7
Fidelity index Rf

Rg 101,9
Gammut index

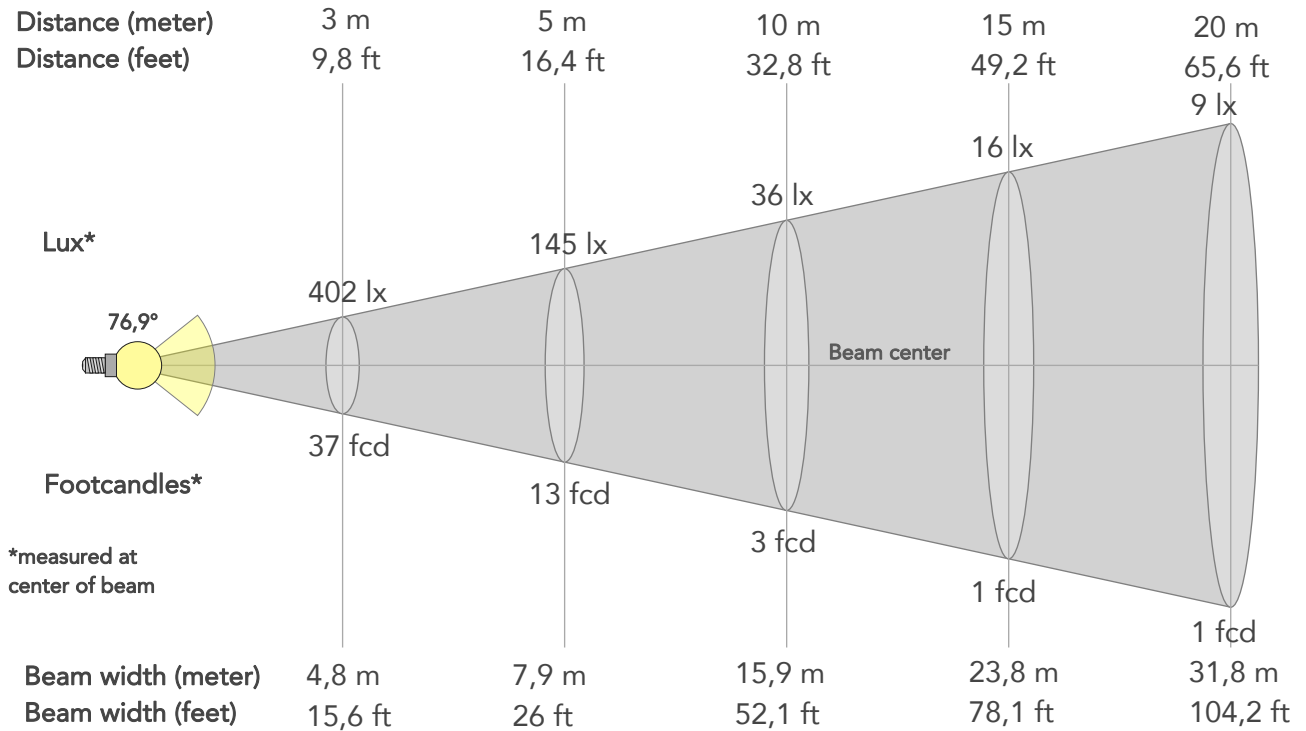
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	1%
2	97	1%	0%
3	95	1%	0%
4	93	-3%	-3%
5	95	-2%	0%
6	96	1%	1%
7	92	-2%	4%
8	97	1%	1%
9	93	2%	4%
10	92	3%	5%
11	92	5%	4%
12	91	5%	-3%
13	93	1%	-6%
14	92	3%	-5%
15	93	-2%	0%
16	90	1%	-7%



BEAM DETAILS



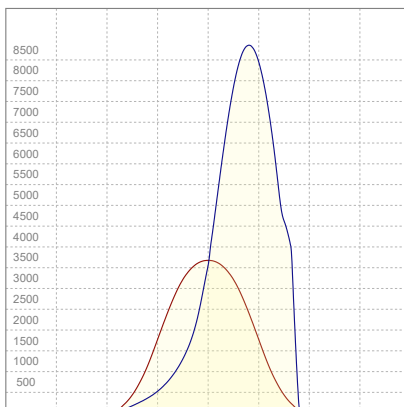
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76,9°	125,1°	151,6°	80,0%	53,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	3616lx	904lx	402lx	226lx	145lx	64lx	36lx	16lx	9lx	6lx	4lx	2lx	1lx
Footcand.	336fcd	84fcd	37fcd	21fcd	13fcd	6fcd	3fcd	1fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	7,9m	11,9m	15,9m	23,8m	31,8m	39,7m	47,6m	63,5m	79,4m
Beam wid.	5,2ft	10,5ft	15,6ft	20,8ft	26ft	39,1ft	52,1ft	78,1ft	104,2ft	130,2ft	156,3ft	208,4ft	260,5ft

LINEAR DISTRIBUTION DIAGRAM

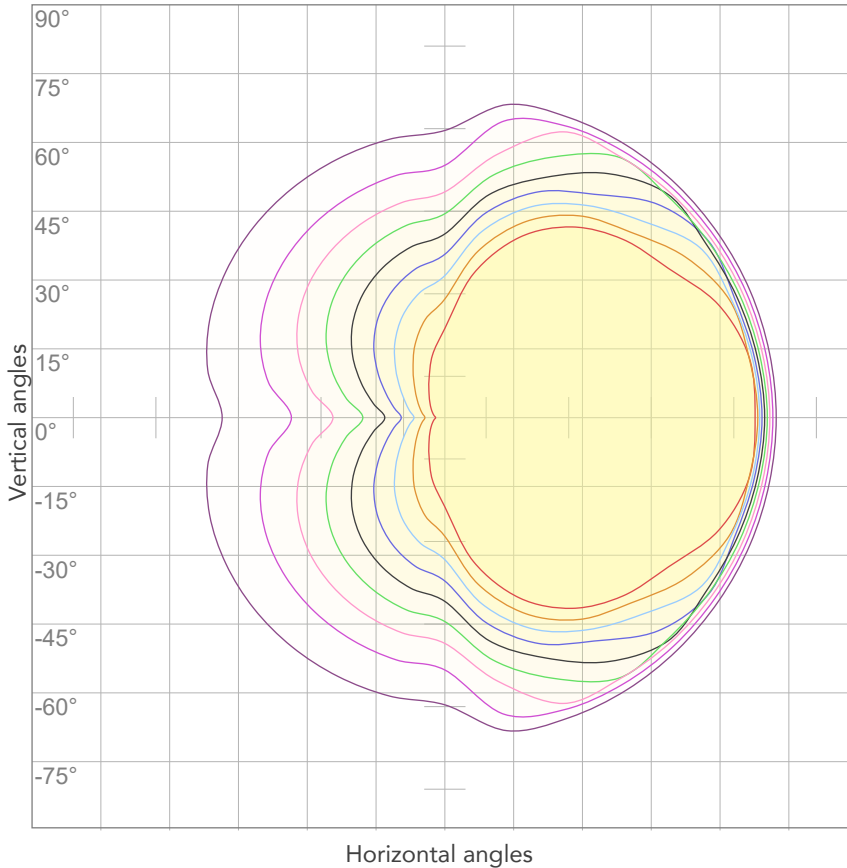


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	1,07A	233W	0,95	54lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



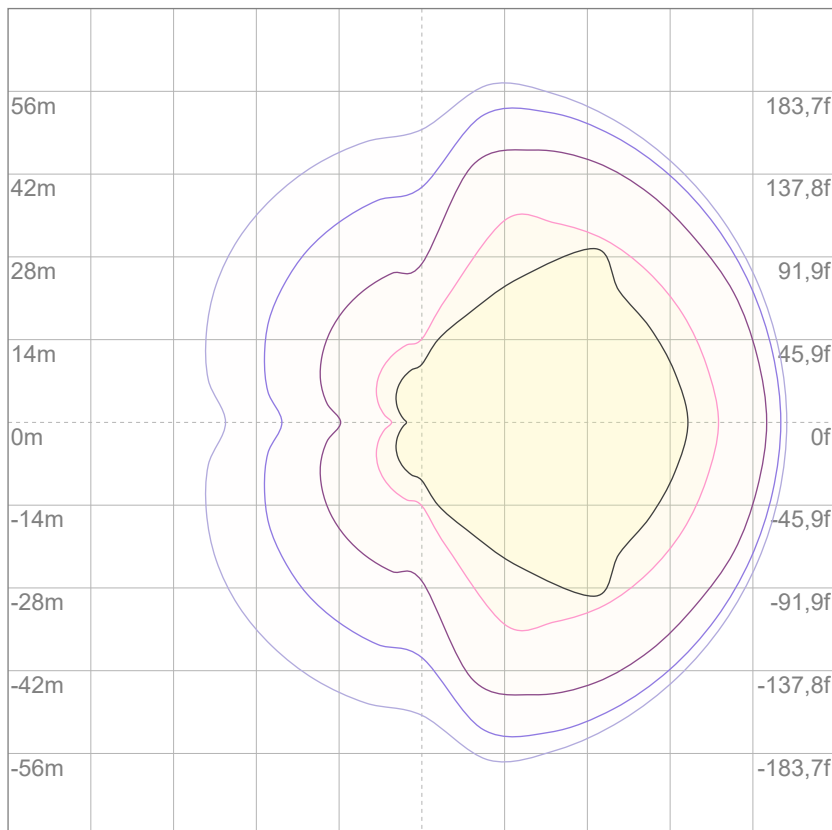
10%	362 cd
20%	723 cd
30%	1085 cd
40%	1447 cd
50%	1808 cd
60%	2170 cd
70%	2531 cd
80%	2893 cd

Conditions:

Number of c-planes: 4

Candela at center: 3616 cd

ISO LUX DIAGRAM



3%	1,08 lx
5%	1,81 lx
10%	3,62 lx
30%	10,8 lx
50%	18,1 lx

Conditions:

Number of c-planes: 4

Lux at center: 36,2 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

15847 lm

Peak candela output:

11158 cd

Light quality:

CRI: 94,0

Color temperature:

3213 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

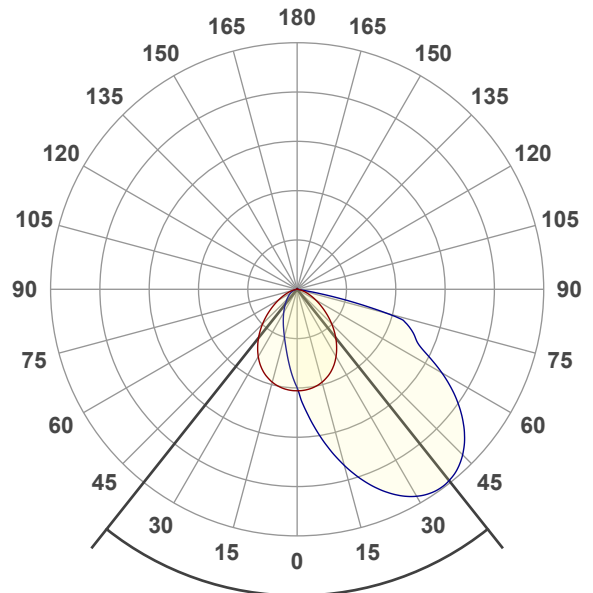
3200K

Operator:

Giuseppe della Peruta

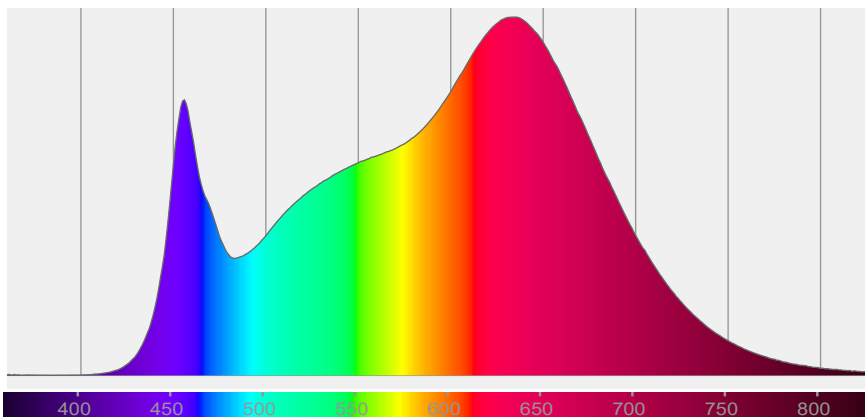
Date and time:

09/09/2025 12:30:34

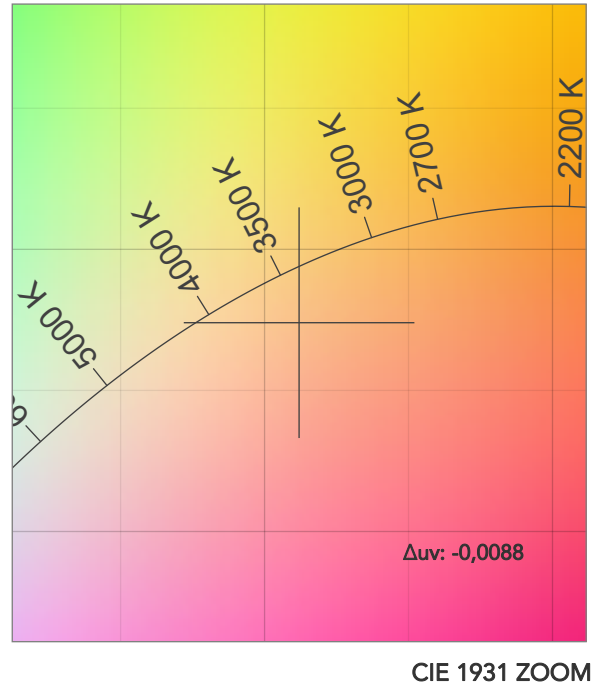
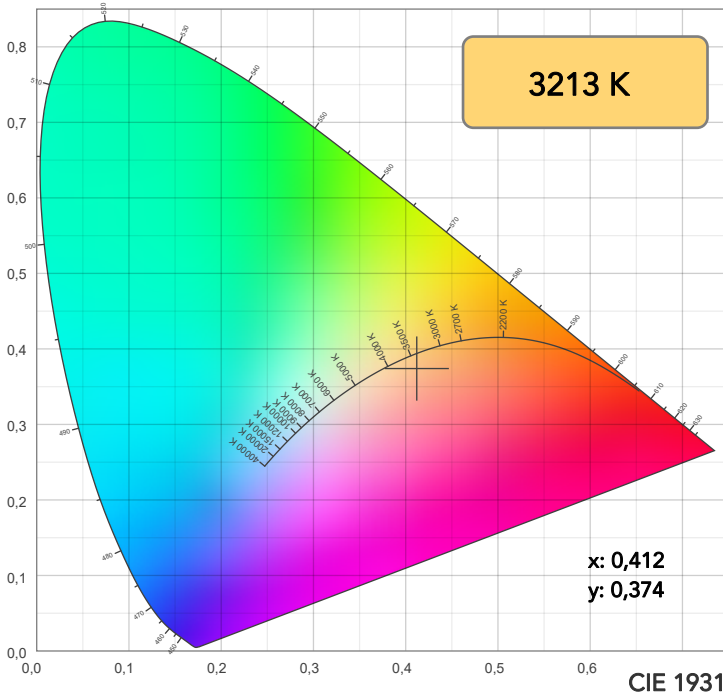


	Blue curve V	Red curve H
Beam angle 50%:	65,7°	88,2°
Field angle 10%:	111,5°	138,9°
Cut off angle 2.5%:	144,7°	158,6°

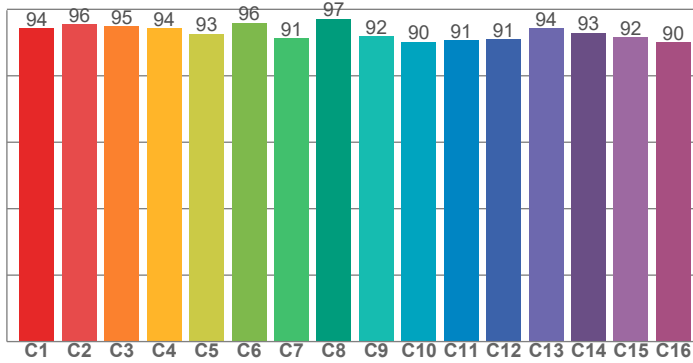
Spectra



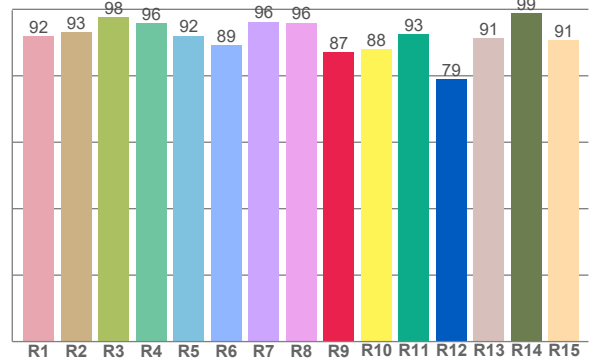
COLOR DETAILS



TM30: 93,1



CRI: 94,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
91,9	93,0	97,6	95,8	92,1	89,3	96,3	96,0	87,2	87,9	92,6	78,9	91,3	98,9	90,8

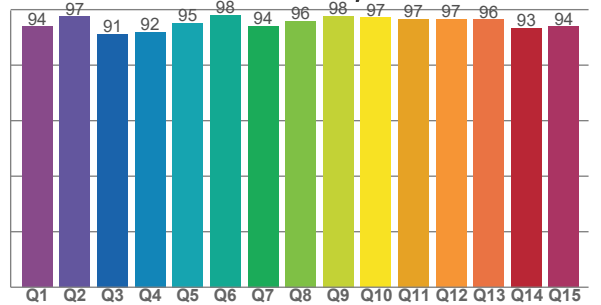
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94,4	95,6	94,9	94,2	92,7	95,9	91,3	97,1	92,0	90,2	90,7	90,9	94,4	92,9	91,7	90,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,9	97,4	91,3	91,9	95,1	98,1	94,1	95,9	97,6	97,1	96,6	96,6	96,4	93,3	94,0

CQS: 94,7



COLOR PARAMETERS

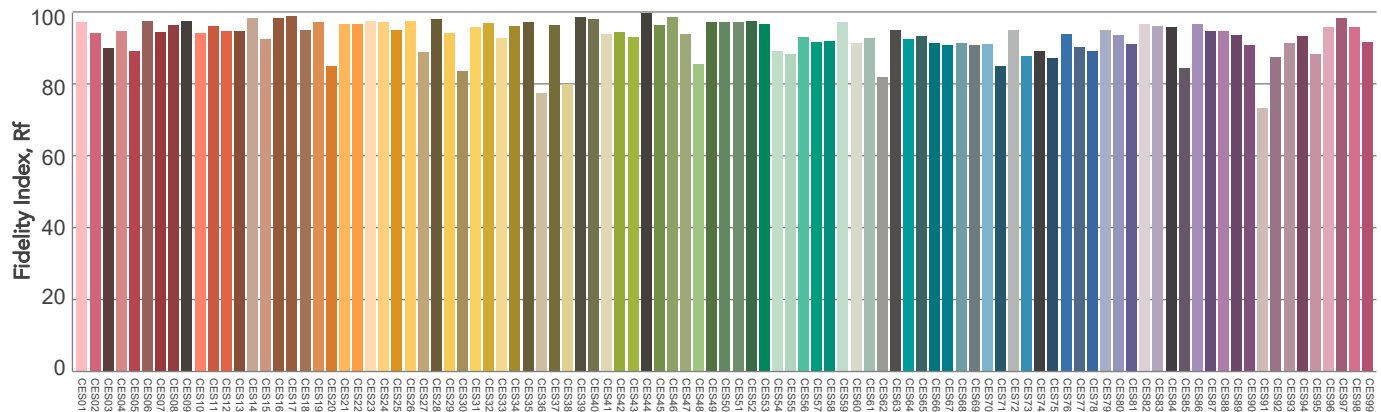
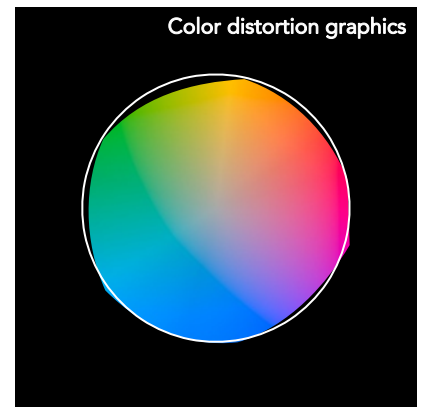
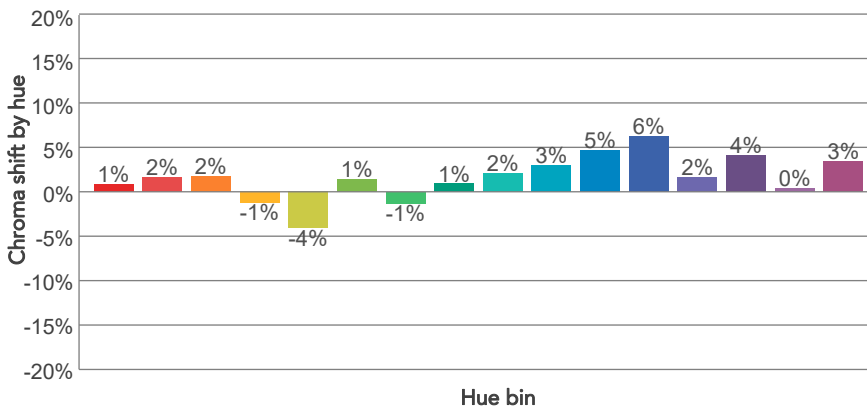
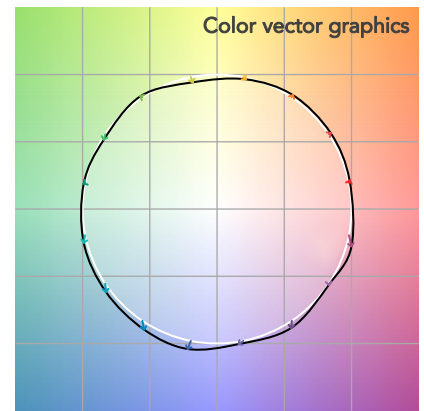
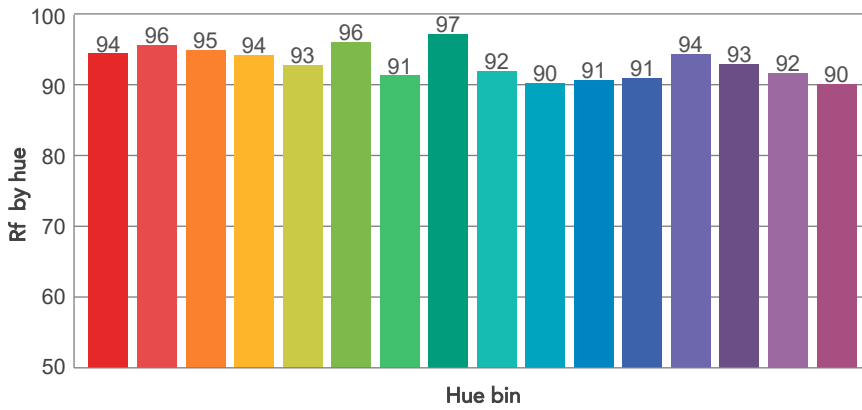
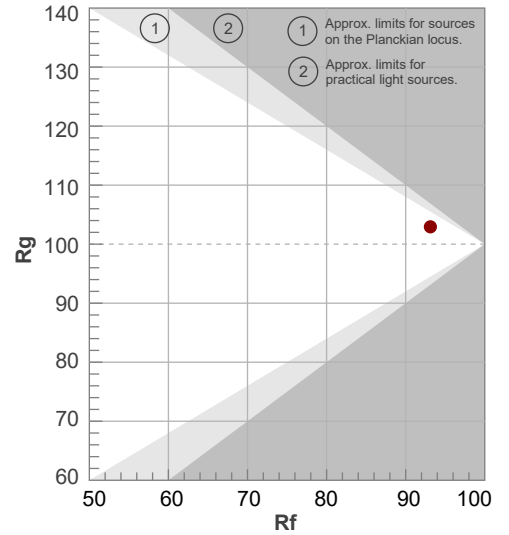
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3213 K	94,0	87,2	93,1	102,9	94,7	98	0,412	0,374	-0,0088

TM30 DETAILS

Rf 93,1
Fidelity index Rf

Rg 102,9
Gammut index

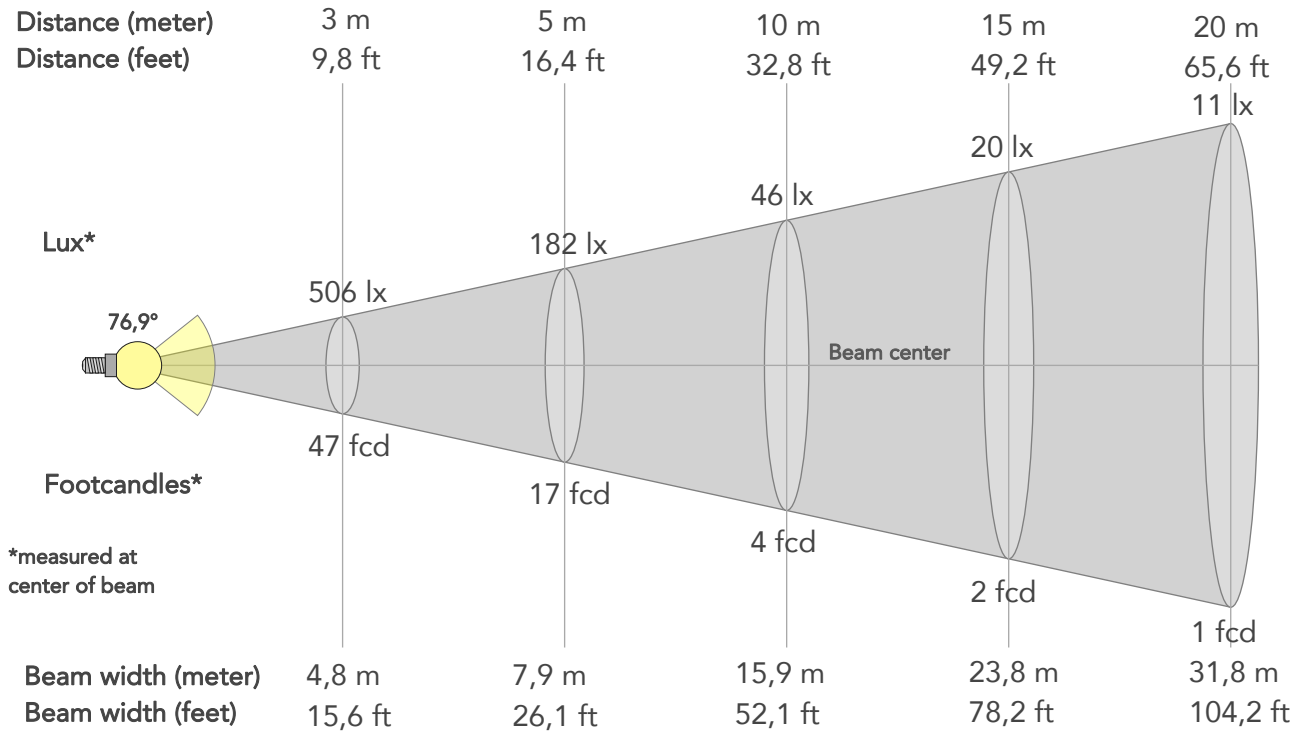
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	2%
2	96	2%	0%
3	95	2%	0%
4	94	-1%	-2%
5	93	-4%	-1%
6	96	1%	1%
7	91	-1%	4%
8	97	1%	1%
9	92	2%	5%
10	90	3%	5%
11	91	5%	5%
12	91	6%	-1%
13	94	2%	-4%
14	93	4%	-3%
15	92	0%	-1%
16	90	3%	-8%



BEAM DETAILS



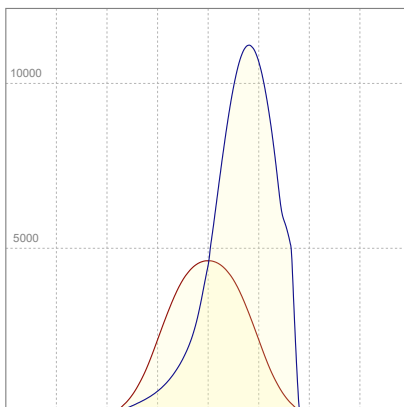
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76,9°	125,2°	151,7°	79,9%	53,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4551lx	1138lx	506lx	284lx	182lx	81lx	46lx	20lx	11lx	7lx	5lx	3lx	2lx
Footcand.	423fcd	106fcd	47fcd	26fcd	17fcd	8fcd	4fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	7,9m	11,9m	15,9m	23,8m	31,8m	39,7m	47,7m	63,6m	79,4m
Beam wid.	5,2ft	10,5ft	15,6ft	20,8ft	26,1ft	39,1ft	52,1ft	78,2ft	104,2ft	130,3ft	156,3ft	208,4ft	260,6ft

LINEAR DISTRIBUTION DIAGRAM

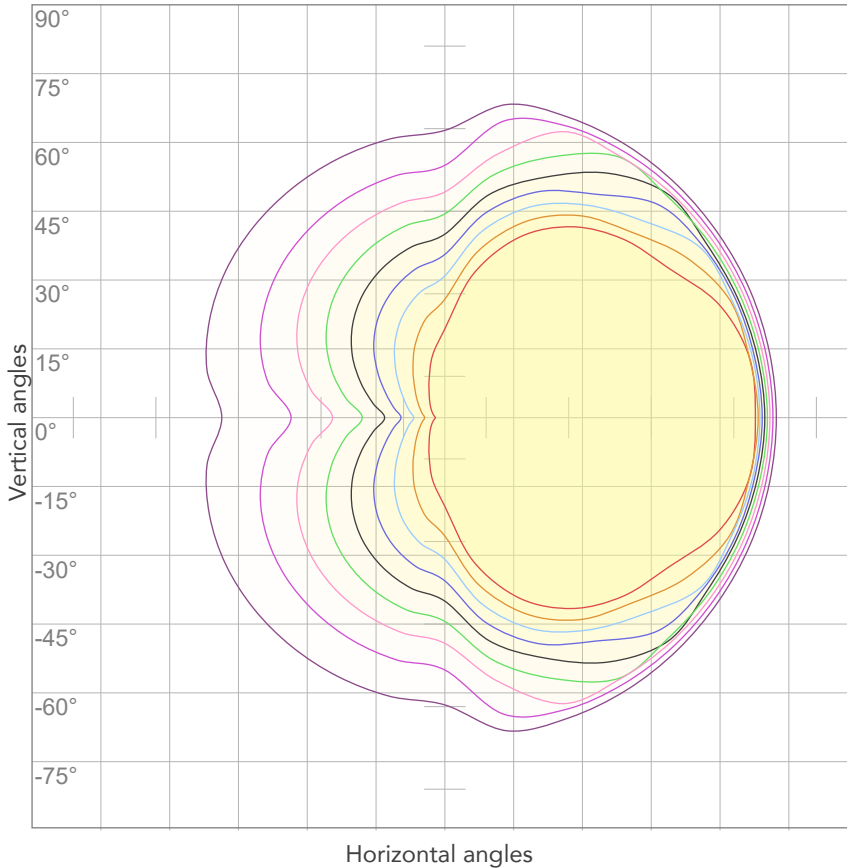


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	1,09A	236,3W	0,95	67lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



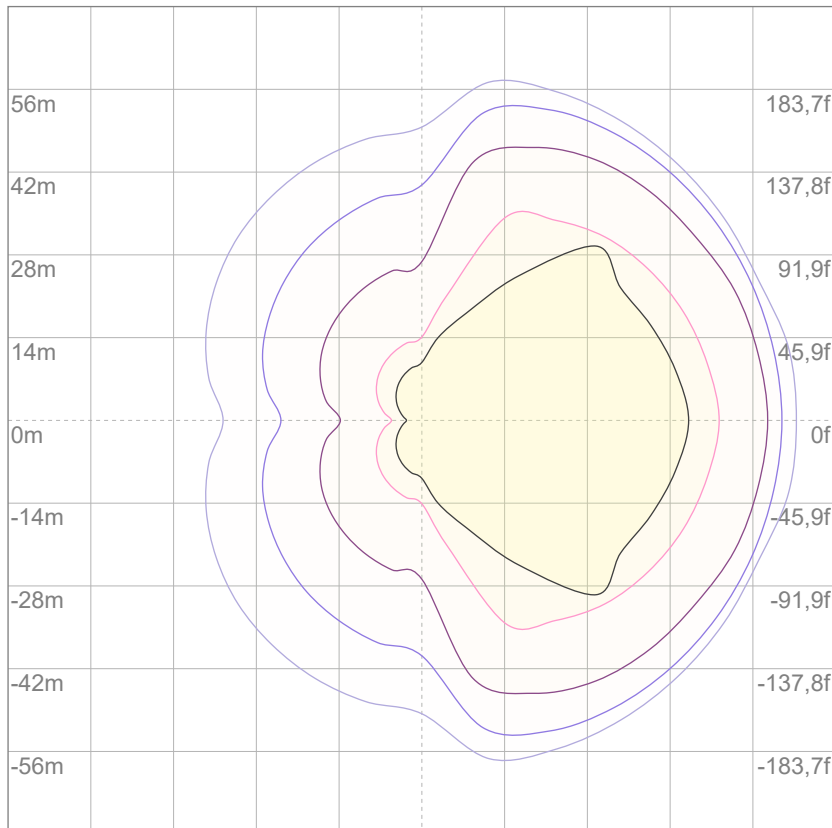
10%	455 cd
20%	910 cd
30%	1365 cd
40%	1821 cd
50%	2276 cd
60%	2731 cd
70%	3186 cd
80%	3641 cd

Conditions:

Number of c-planes: 4

Candela at center: 4551 cd

ISO LUX DIAGRAM



3%	1,37 lx
5%	2,28 lx
10%	4,55 lx
30%	13,7 lx
50%	22,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 45,5 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

18984 lm

Peak candela output:

13381 cd

Light quality:

CRI: 92,1

Color temperature:

4006 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

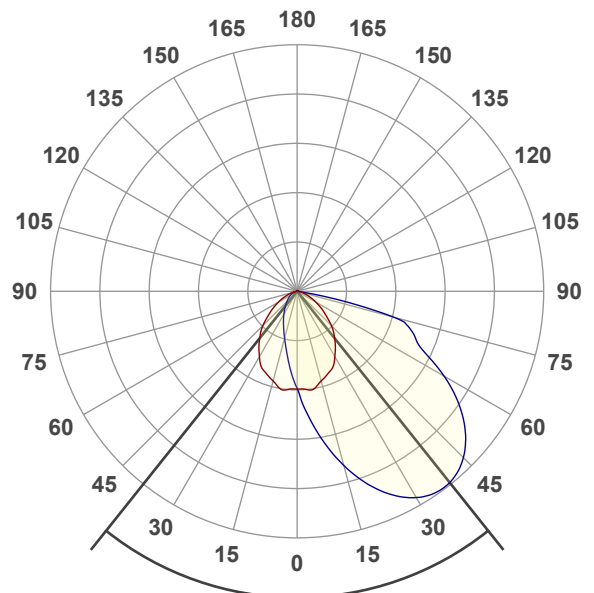
4000K

Operator:

Giuseppe della Peruta

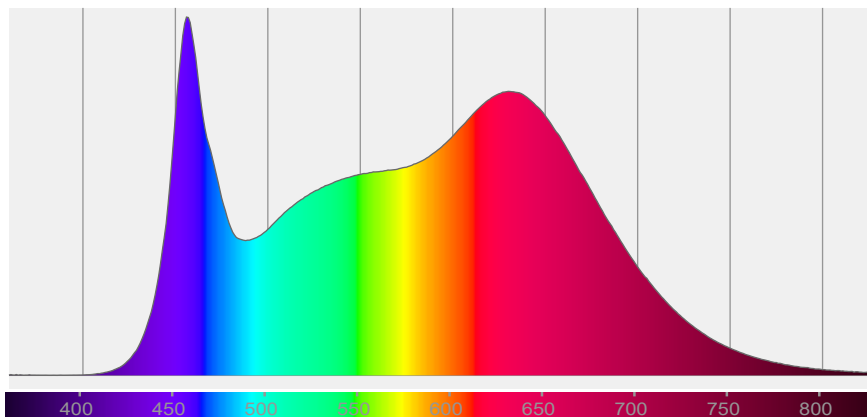
Date and time:

09/09/2025 13:00:22

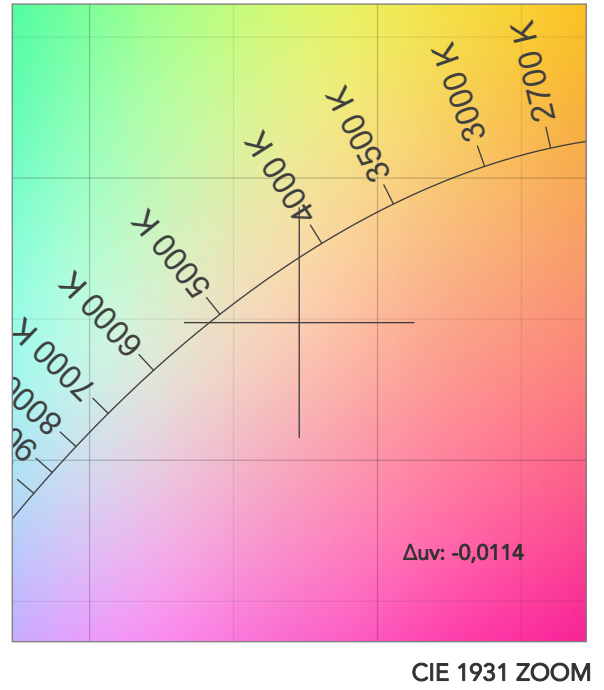
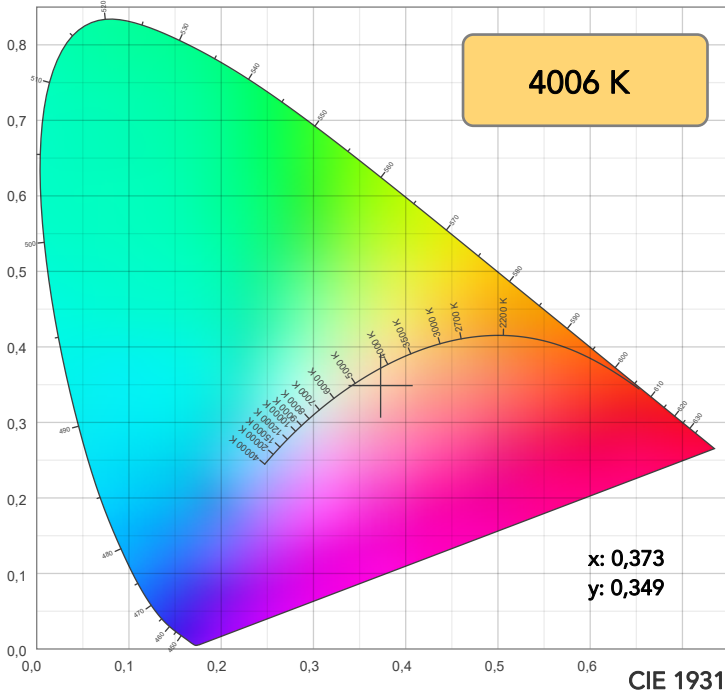


	Blue curve V	Red curve H
Beam angle 50%:	65,8°	88,6°
Field angle 10%:	111,5°	138,8°
Cut off angle 2.5%:	144,7°	158,7°

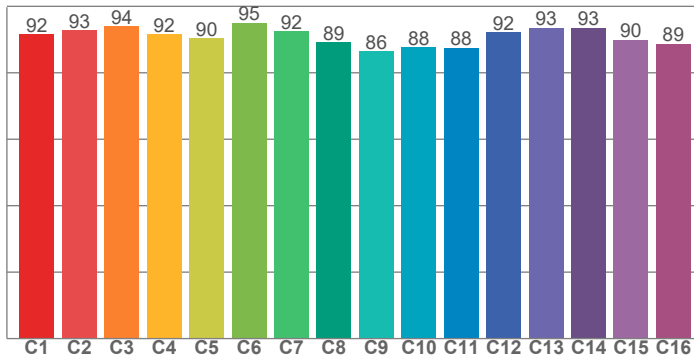
Spectra



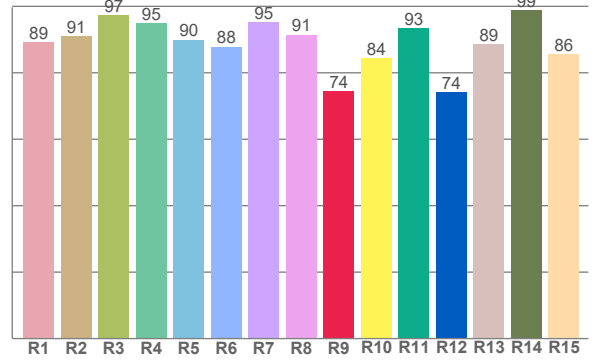
COLOR DETAILS



TM30: 90,9



CRI: 92,1 (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
89,1	90,9	97,3	95,0	90,0	87,9	95,1	91,4	74,4	84,4	93,4	74,1	88,6	98,9	85,7

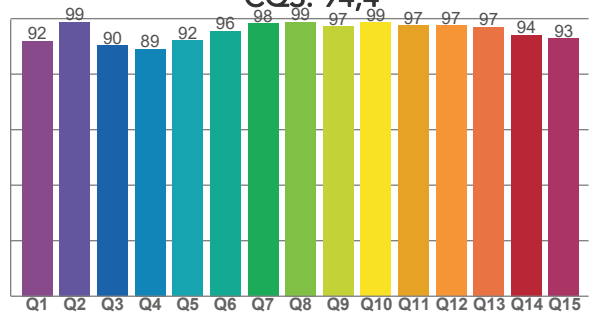
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,6	92,9	94,1	91,6	90,4	95,0	92,4	89,1	86,5	87,6	87,6	92,3	93,5	93,5	89,9	88,7

CQS Q values

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

CQS: 94,4



COLOR PARAMETERS

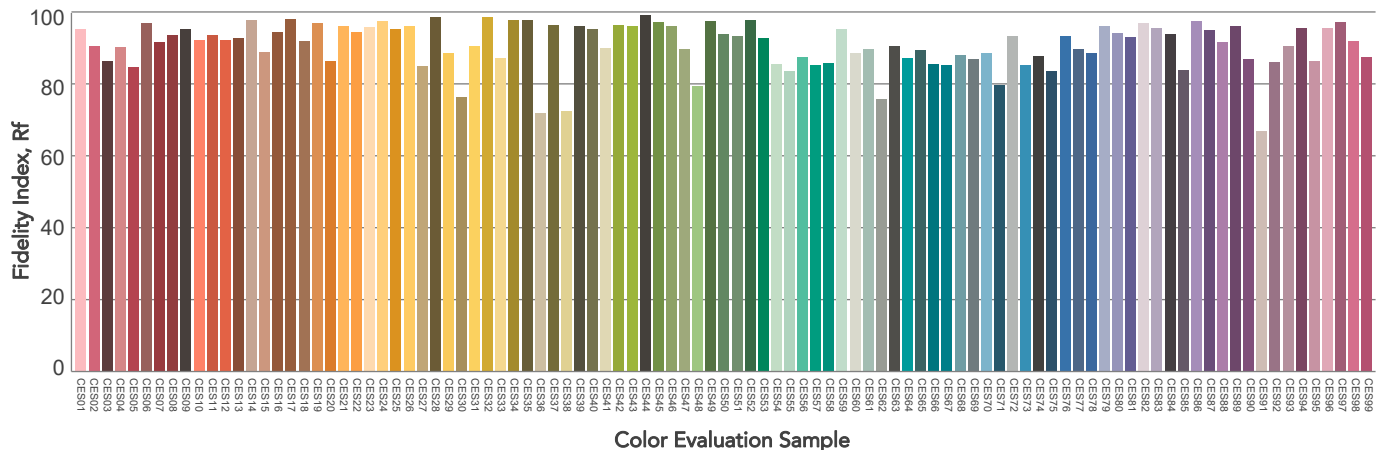
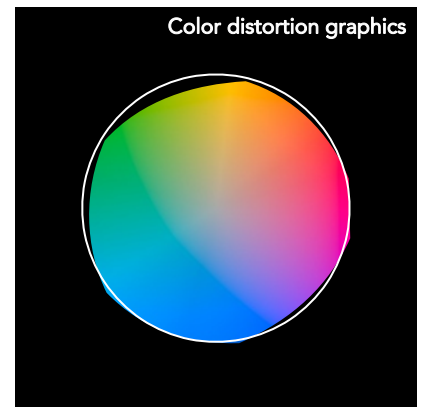
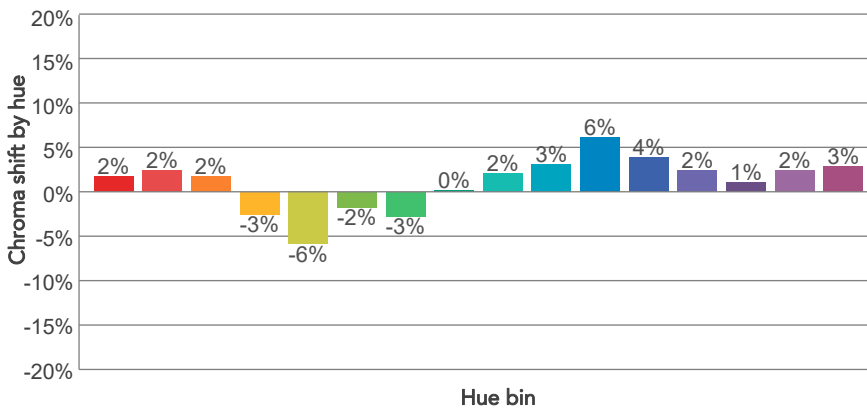
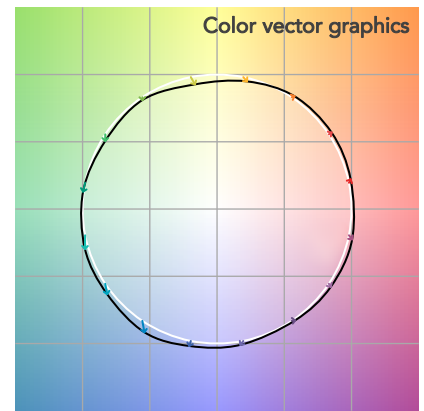
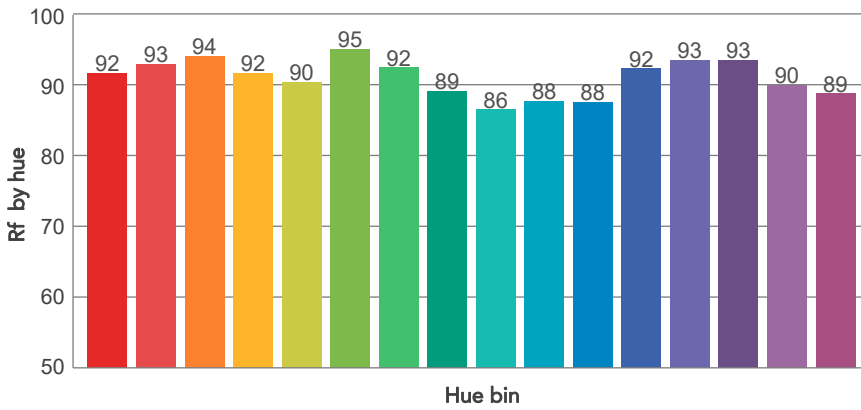
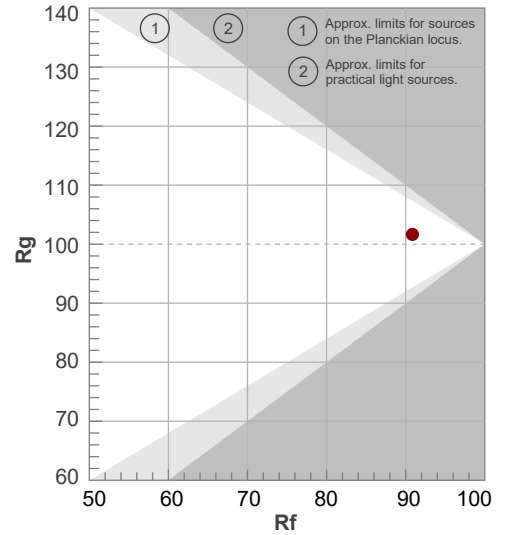
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4006 K	92,1	74,4	90,9	101,7	94,4	98	0,373	0,349	-0,0114

TM30 DETAILS

Rf 90,9
Fidelity index Rf

Rg 101,7
Gammut index

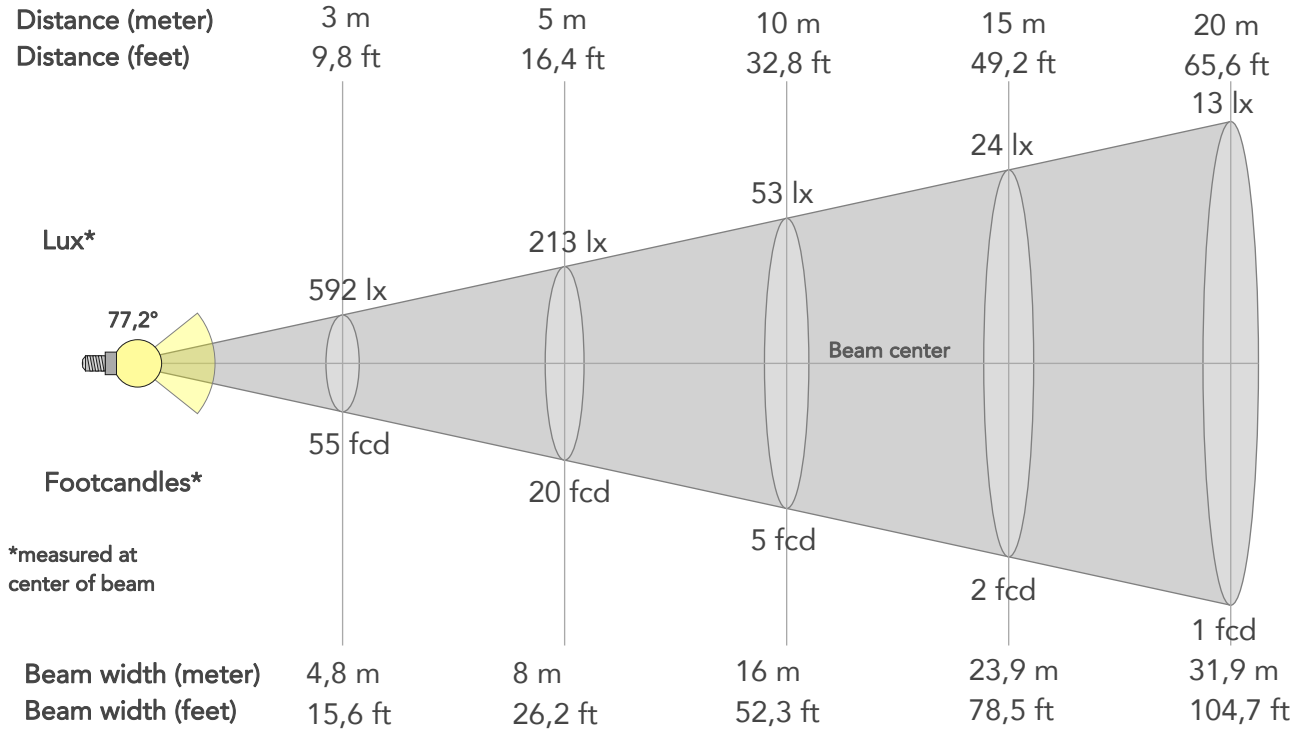
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	2%	2%
2	93	2%	0%
3	94	2%	-1%
4	92	-3%	-3%
5	90	-6%	-2%
6	95	-2%	1%
7	92	-3%	4%
8	89	0%	7%
9	86	2%	10%
10	88	3%	7%
11	88	6%	6%
12	92	4%	0%
13	93	2%	-3%
14	93	1%	2%
15	90	2%	-1%
16	89	3%	-2%



BEAM DETAILS



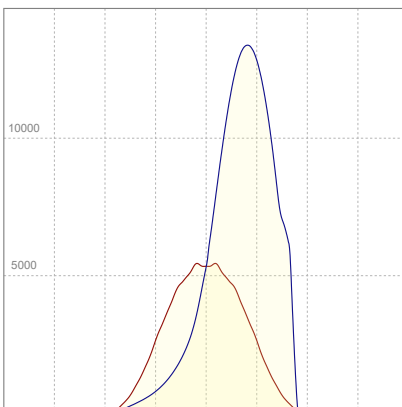
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77,2°	125,2°	151,7°	79,4%	52,9%



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	5325lx	1331lx	592lx	333lx	213lx	95lx	53lx	24lx	13lx	9lx	6lx	3lx	2lx
Footcand.	495fcd	124fcd	55fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	12m	16m	23,9m	31,9m	39,9m	47,9m	63,8m	79,8m
Beam wid.	5,3ft	10,5ft	15,6ft	20,9ft	26,2ft	39,3ft	52,3ft	78,5ft	104,7ft	130,8ft	157ft	209,3ft	261,7ft

LINEAR DISTRIBUTION DIAGRAM

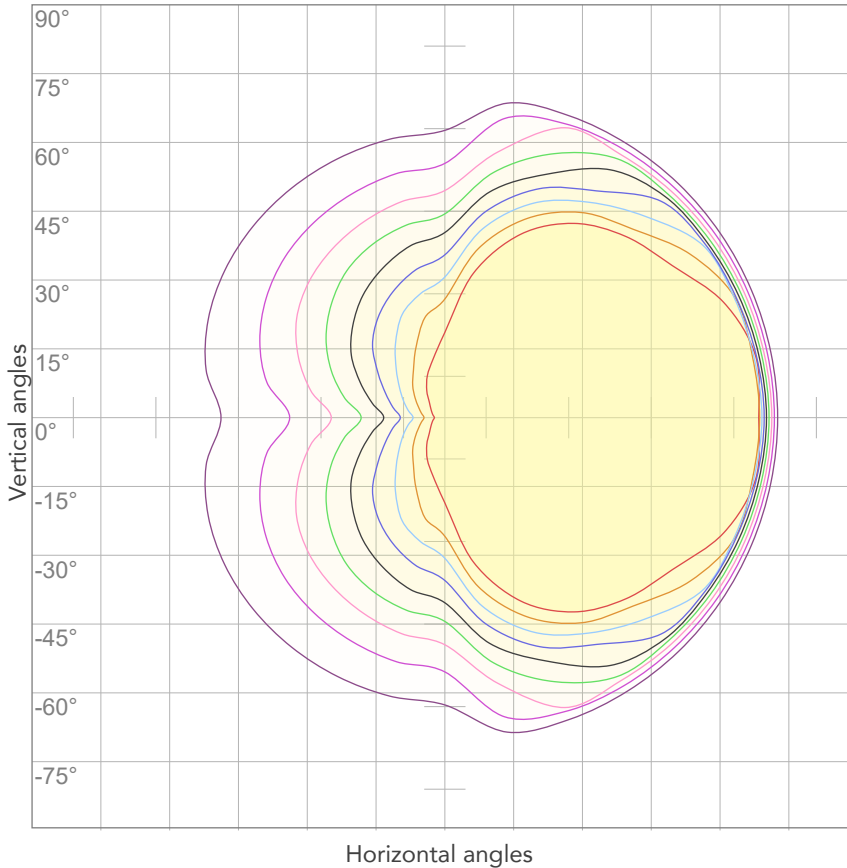


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	1,43A	317,6W	0,97	60lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



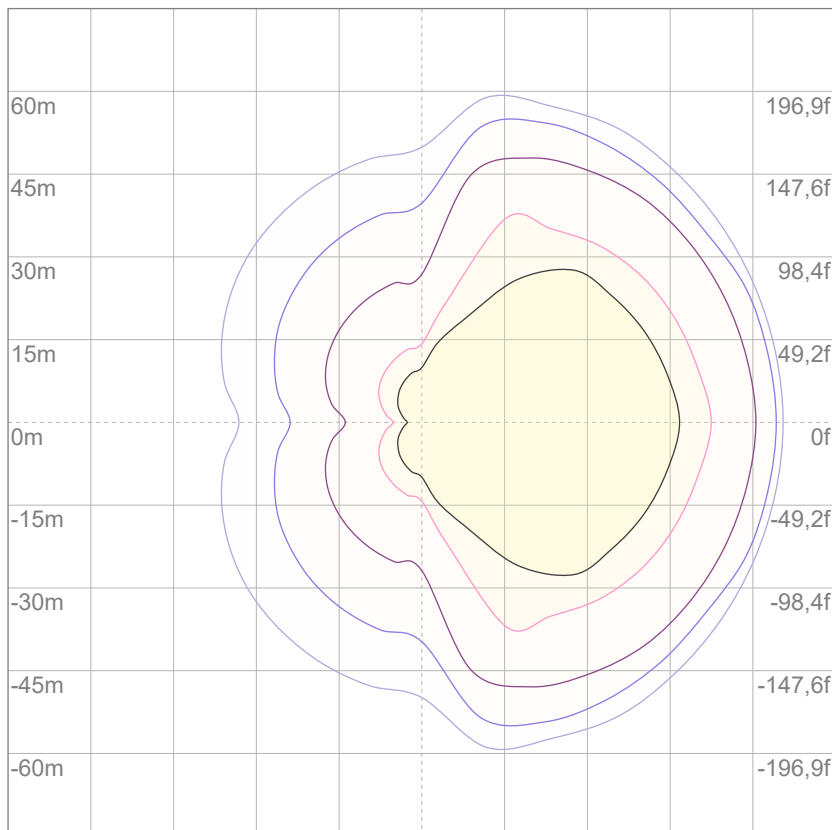
10%	532 cd
20%	1065 cd
30%	1597 cd
40%	2130 cd
50%	2662 cd
60%	3195 cd
70%	3727 cd
80%	4260 cd

Conditions:

Number of c-planes: 4

Candela at center: 5325 cd

ISO LUX DIAGRAM



3%	1,60 lx
5%	2,66 lx
10%	5,32 lx
30%	16,0 lx
50%	26,6 lx

Conditions:

Number of c-planes: 4

Lux at center: 53,2 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

18903 lm

Peak candela output:

13132 cd

Light quality:

CRI: 92,4

Color temperature:

5567 K

PRODUCT NAME:

ECLEXPO300IPVW

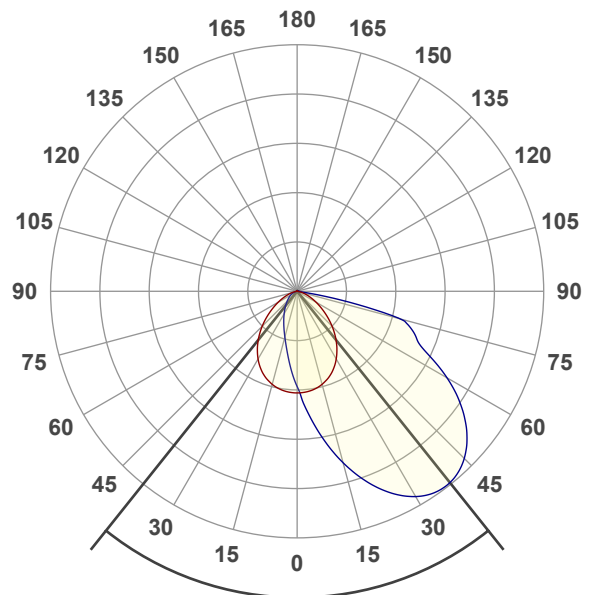
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
5600K

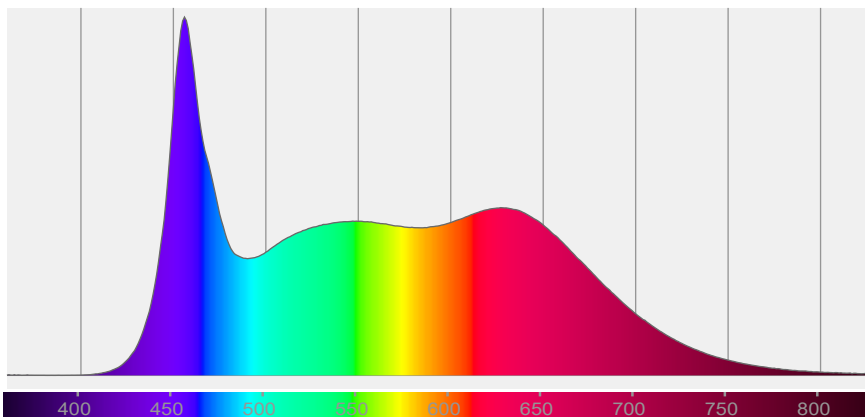
Operator:
Giuseppe della Peruta

Date and time:
09/09/2025 13:13:40

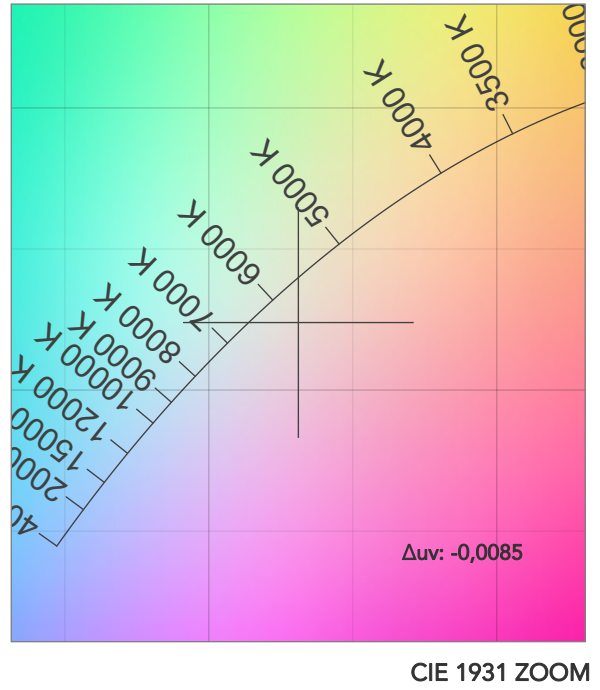
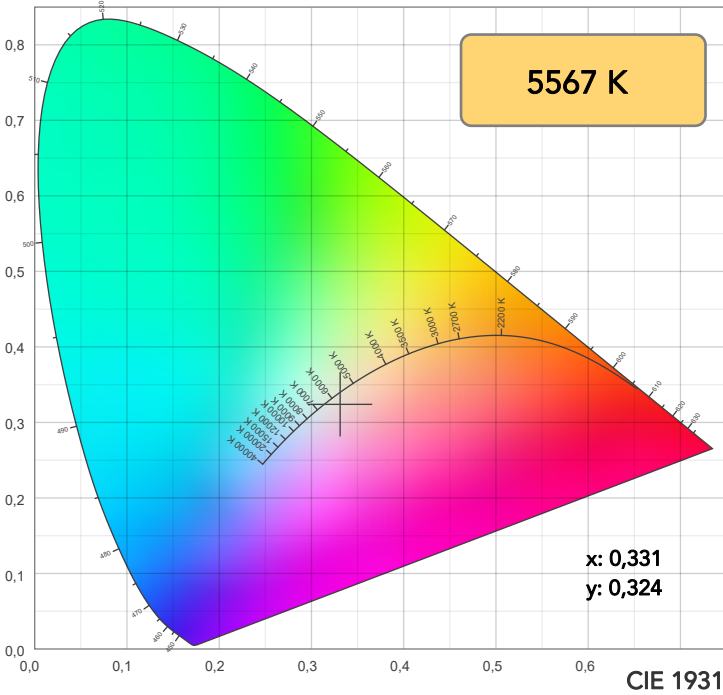


	Blue curve V	Red curve H
Beam angle 50%:	65,8°	88,7°
Field angle 10%:	111,5°	139,2°
Cut off angle 2.5%:	144,7°	158,8°

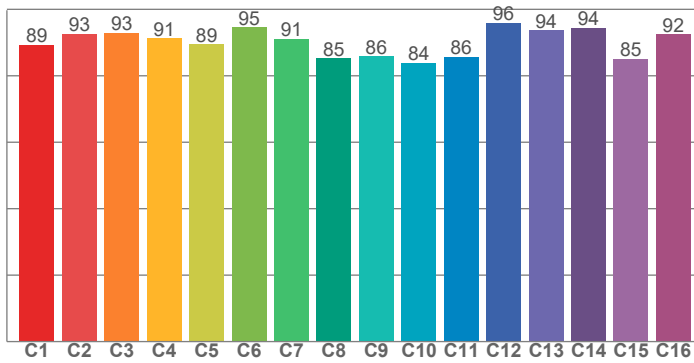
Spectra



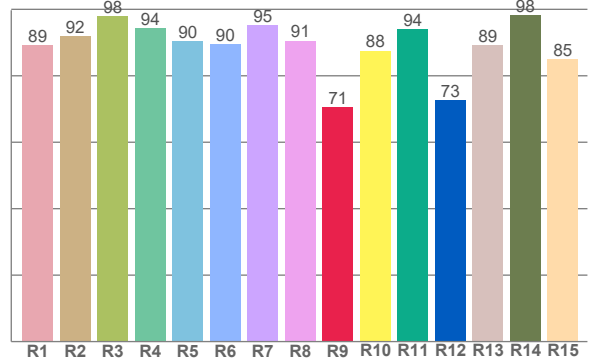
COLOR DETAILS



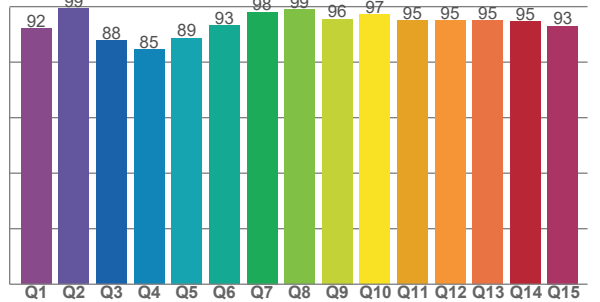
TM30: 89,9



CRI: 92,4 (R1-R8)



CQS: 92,7



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
89,2	92,0	98,0	94,3	90,4	89,6	95,2	90,5	70,6	87,5	94,0	72,8	89,3	98,1	85,0

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
89,3	92,6	92,9	91,3	89,4	94,6	91,1	85,3	85,8	83,9	85,7	95,9	93,7	94,4	85,1	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,2	99,3	87,7	84,6	88,8	93,2	98,0	99,0	95,6	97,1	95,0	95,0	95,0	94,6	93,0

COLOR PARAMETERS

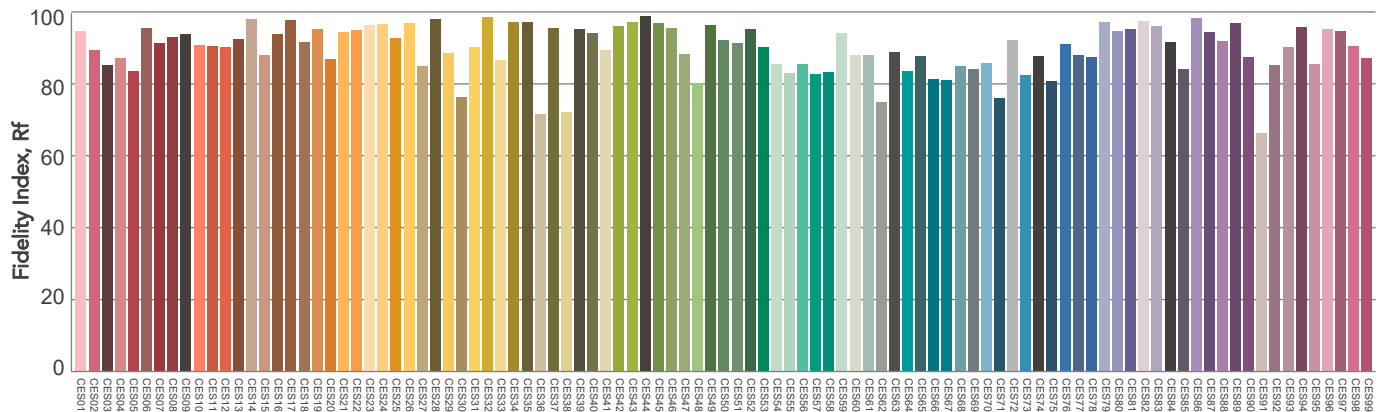
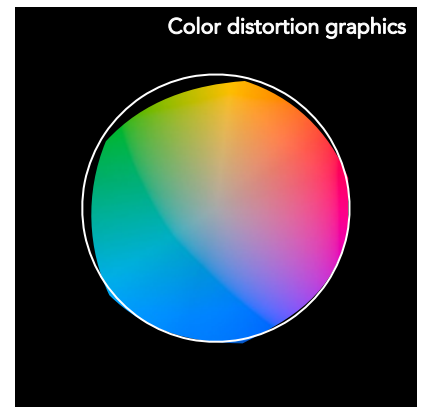
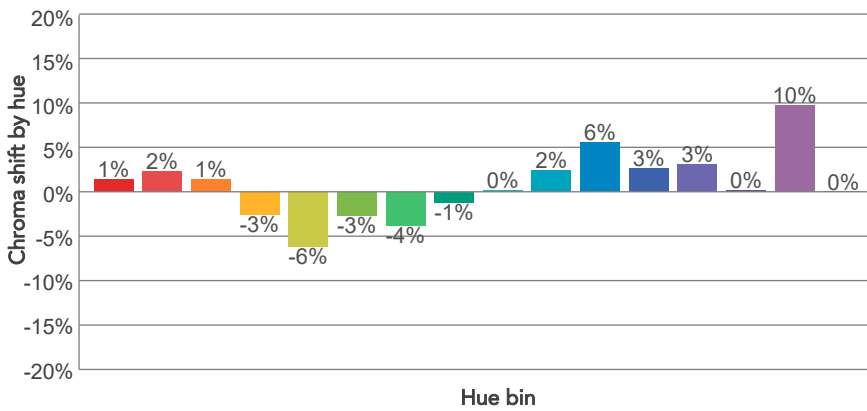
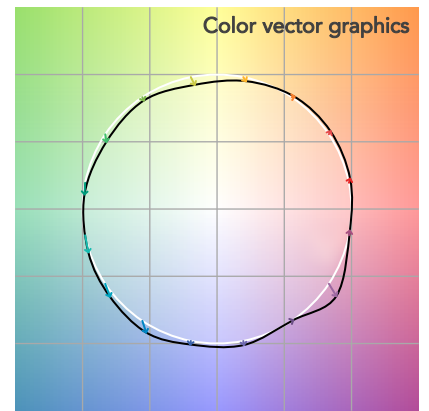
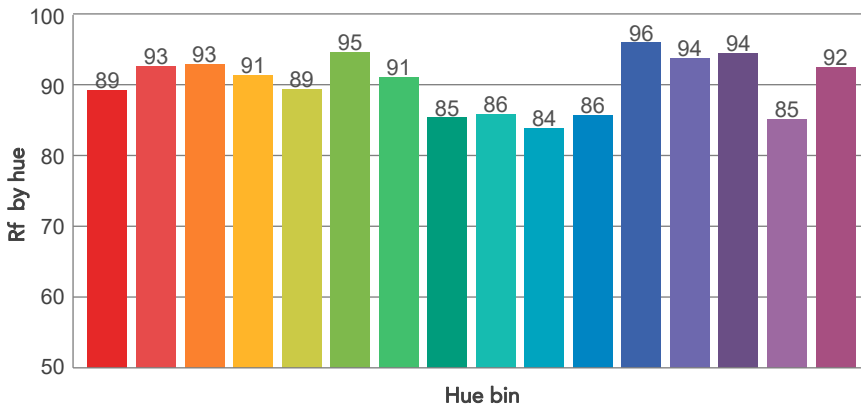
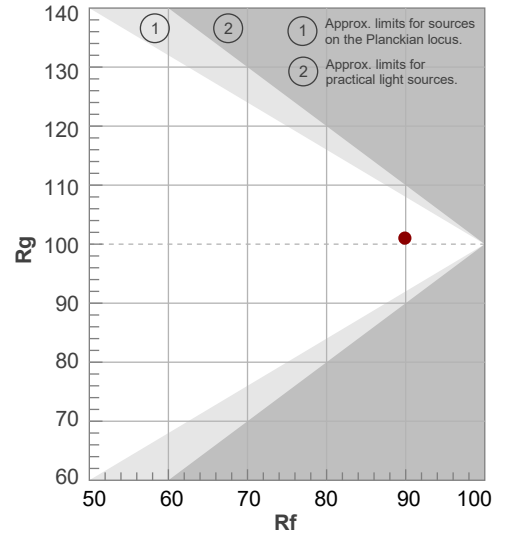
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5567 K	92,4	70,6	89,9	101,0	92,7	96	0,331	0,324	-0,0085

TM30 DETAILS

Rf 89,9
Fidelity index Rf

Rg 101,0
Gammut index

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	1%	3%
2	93	2%	1%
3	93	1%	-2%
4	91	-3%	-3%
5	89	-6%	-2%
6	95	-3%	0%
7	91	-4%	4%
8	85	-1%	8%
9	86	0%	13%
10	84	2%	10%
11	86	6%	7%
12	96	3%	0%
13	94	3%	0%
14	94	0%	1%
15	85	10%	-5%
16	92	0%	3%

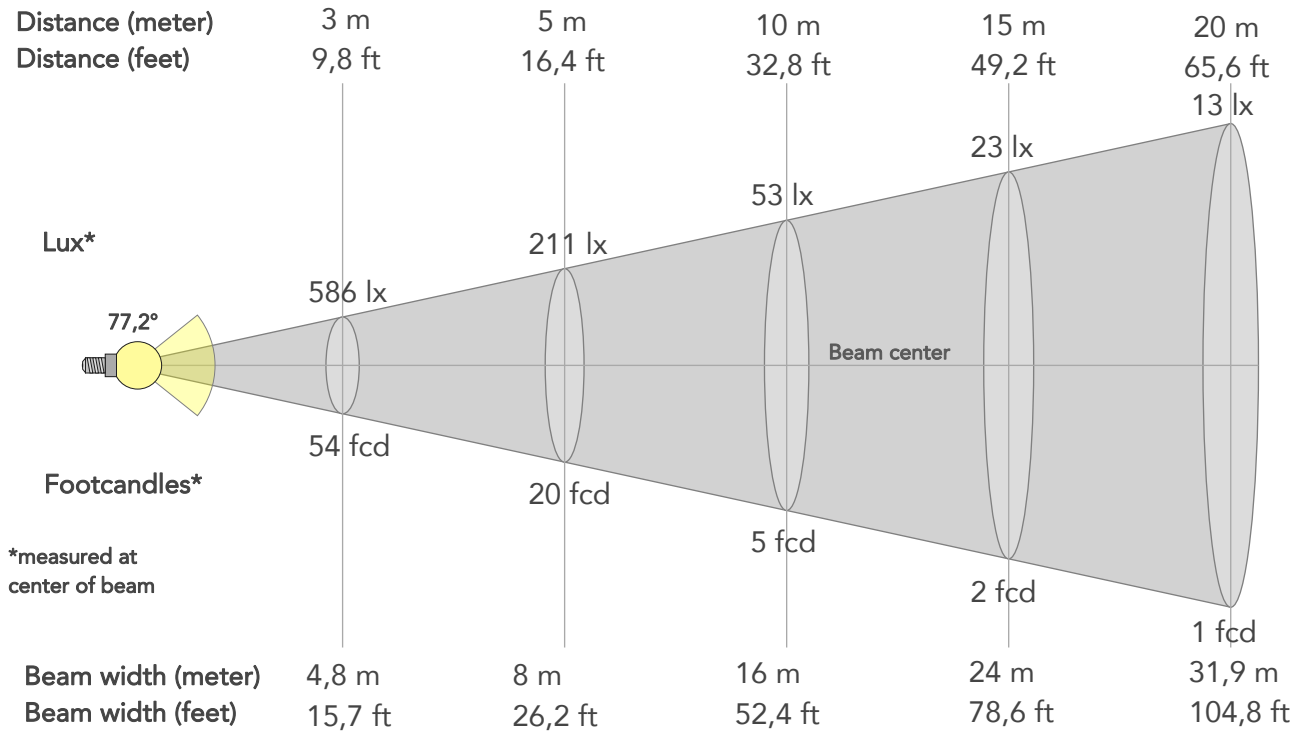


Color Evaluation Sample

BEAM DETAILS



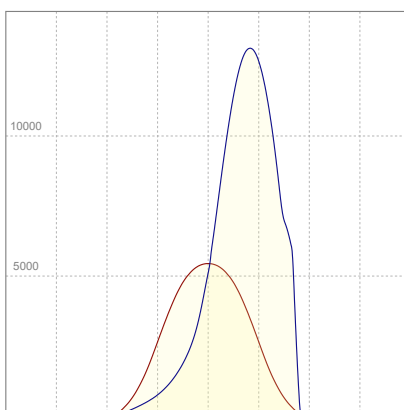
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77,2°	125,4°	151,8°	79,0%	52,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5276lx	1319lx	586lx	330lx	211lx	94lx	53lx	23lx	13lx	8lx	6lx	3lx	2lx
Footcand.	490fcd	123fcd	54fcd	31fcd	20fcd	9fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	12m	16m	24m	31,9m	39,9m	47,9m	63,9m	79,9m
Beam wid.	5,3ft	10,5ft	15,7ft	20,9ft	26,2ft	39,3ft	52,4ft	78,6ft	104,8ft	131ft	157,2ft	209,6ft	261,9ft

LINEAR DISTRIBUTION DIAGRAM

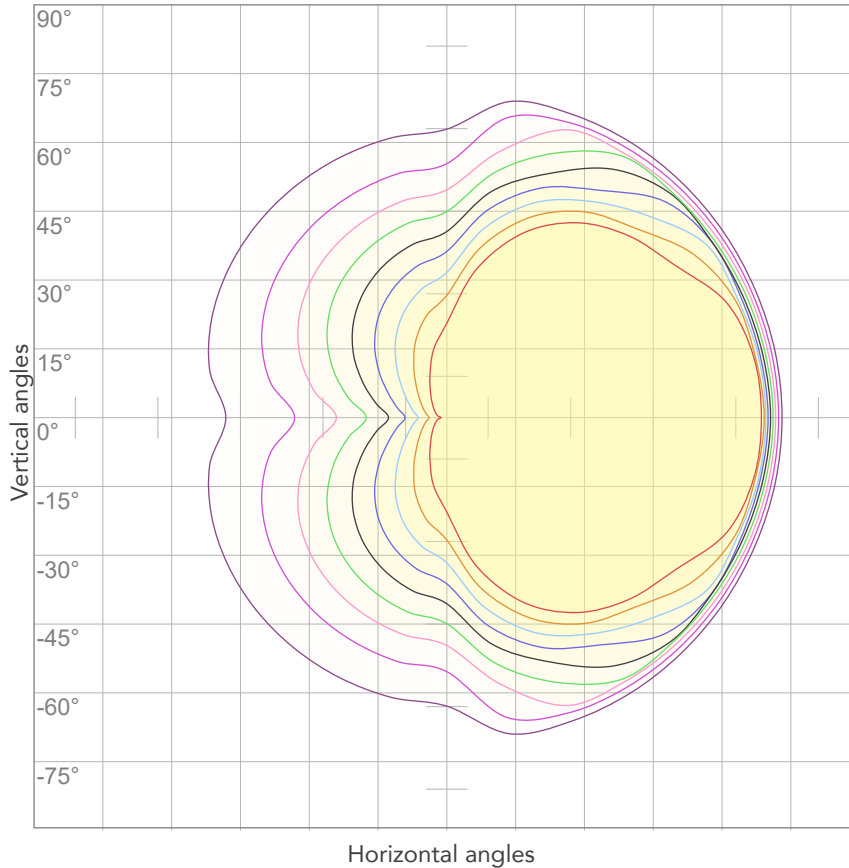


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	1,28A	281,8W	0,97	67lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



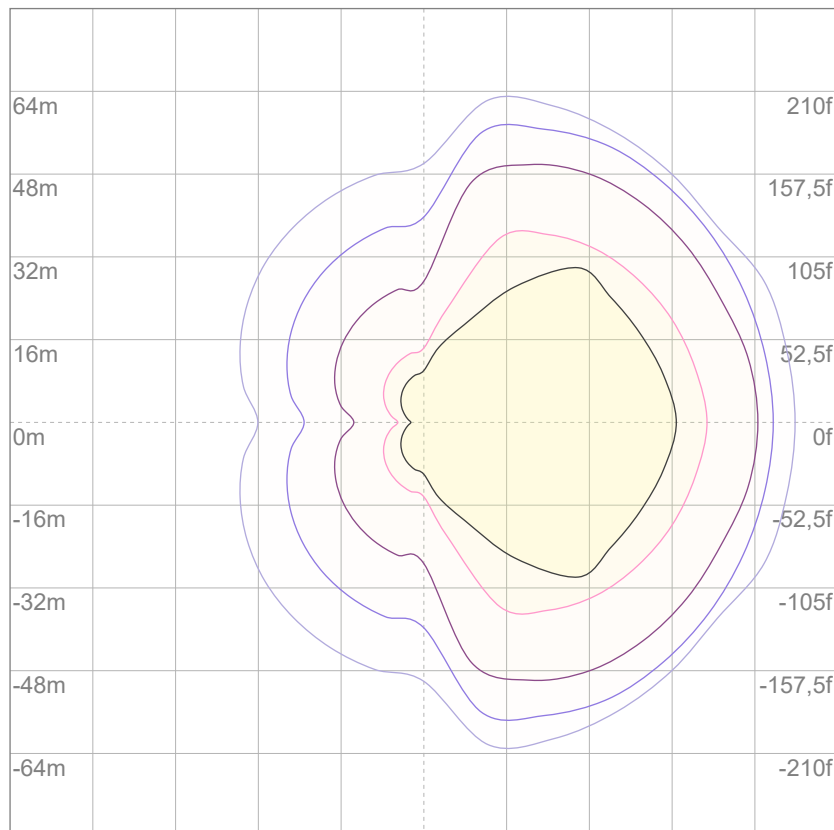
10%	528 cd
20%	1055 cd
30%	1583 cd
40%	2110 cd
50%	2638 cd
60%	3165 cd
70%	3693 cd
80%	4221 cd

Conditions:

Number of c-planes: 4

Candela at center: 5276 cd

ISO LUX DIAGRAM



3%	1,58 lx
5%	2,64 lx
10%	5,28 lx
30%	15,8 lx
50%	26,4 lx

Conditions:

Number of c-planes: 4

Lux at center: 52,8 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

17642 lm

Peak candela output:

12251 cd

Light quality:

CRI: 92,7

Color temperature:

5970 K

PRODUCT NAME:

ECLEXPO300IPVW

MEASURAMENT CONDITIONS:

Beam angle:

Original Optic

Target:

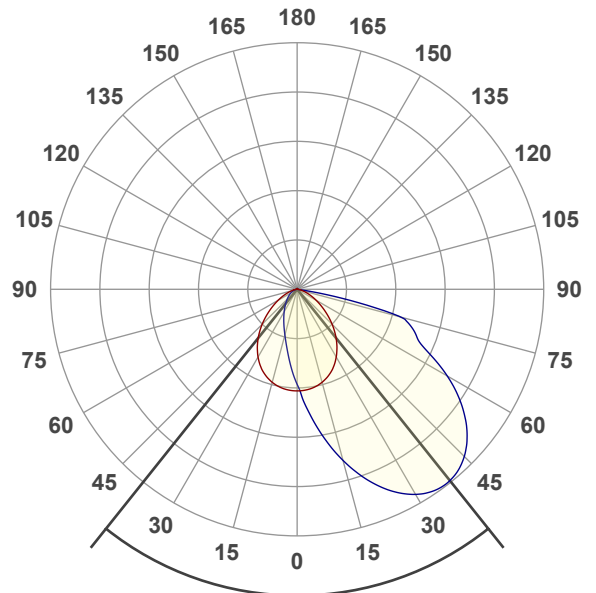
6000K

Operator:

Giuseppe della Peruta

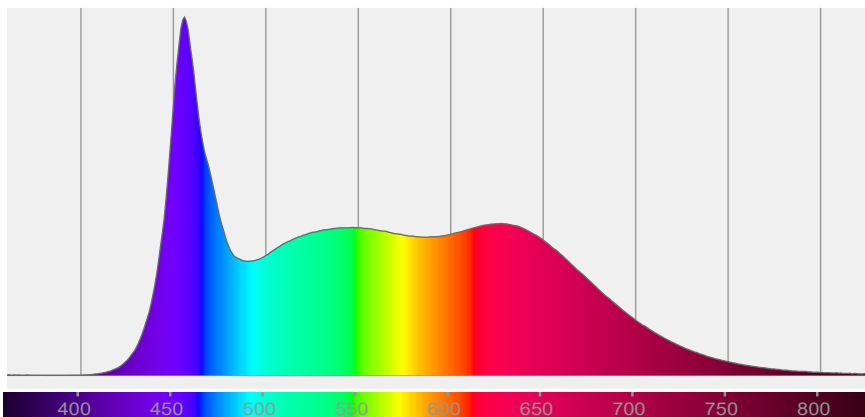
Date and time:

09/09/2025 13:19:03

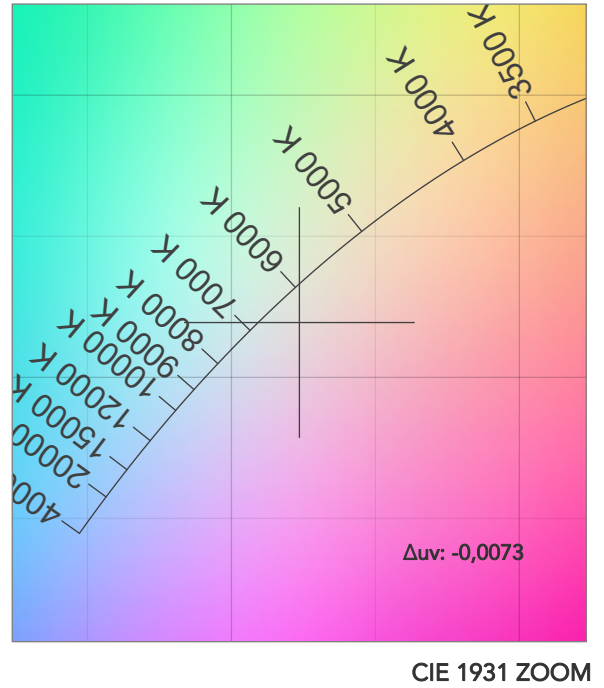
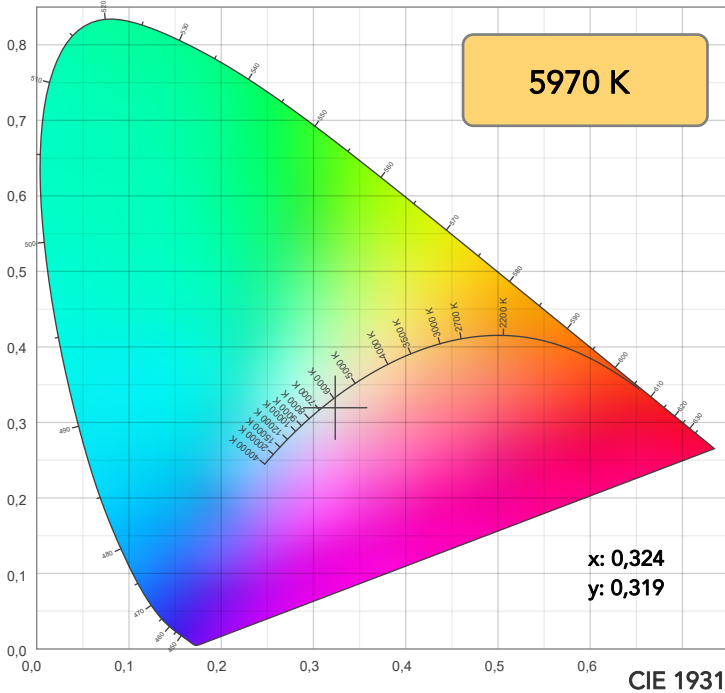


	Blue curve V	Red curve H
Beam angle 50%:	65,7°	88,7°
Field angle 10%:	111,5°	139,2°
Cut off angle 2.5%:	144,6°	158,9°

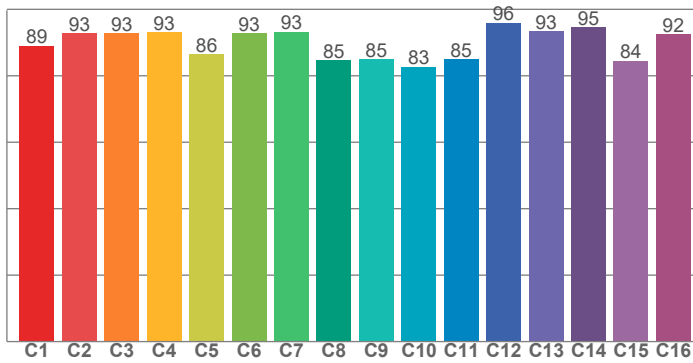
Spectra



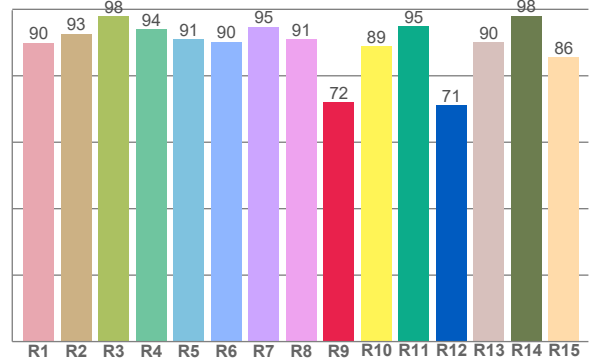
COLOR DETAILS



TM30: 89,4



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
89,9	92,6	97,9	94,1	90,9	90,2	94,8	90,9	72,0	89,0	94,8	71,2	90,2	98,1	85,7

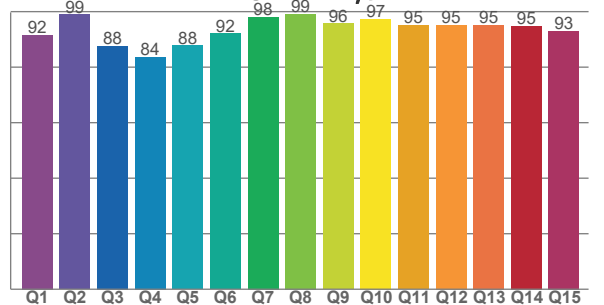
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,0	92,7	92,8	93,1	86,4	92,8	93,2	84,7	85,0	82,8	84,9	95,9	93,3	94,5	84,5	92,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,5	99,0	87,6	83,6	87,7	92,1	98,0	99,1	95,7	97,3	95,1	95,2	95,2	94,8	93,0

CQS: 92,3



COLOR PARAMETERS

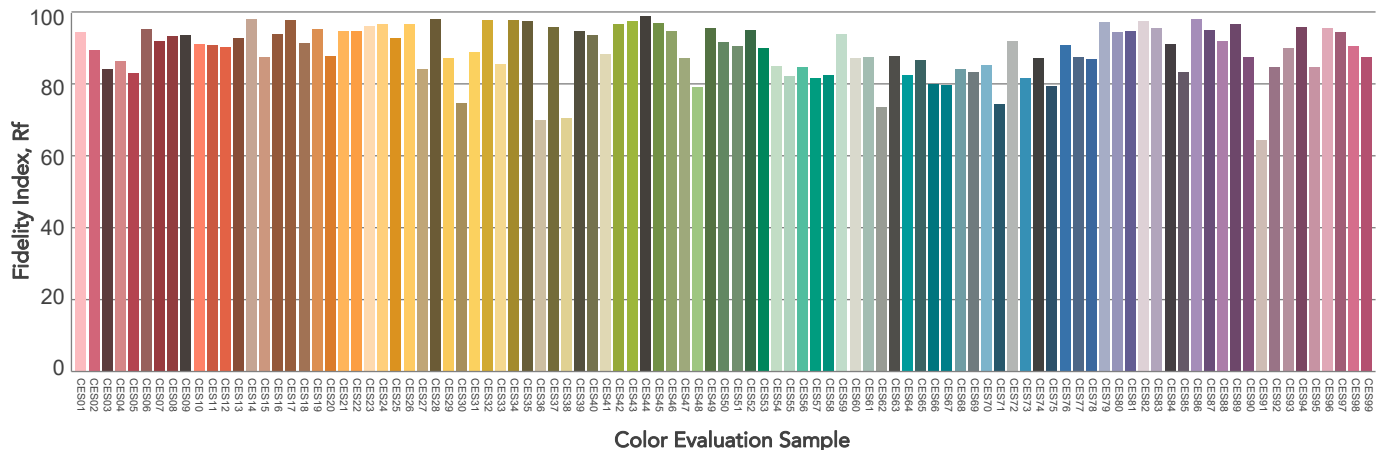
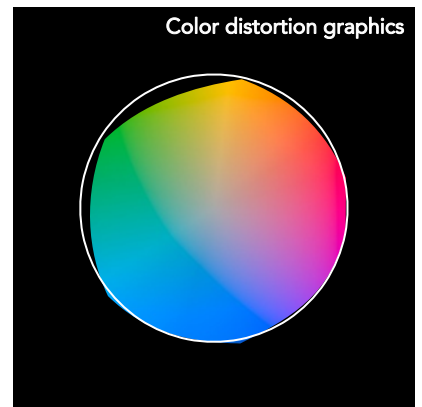
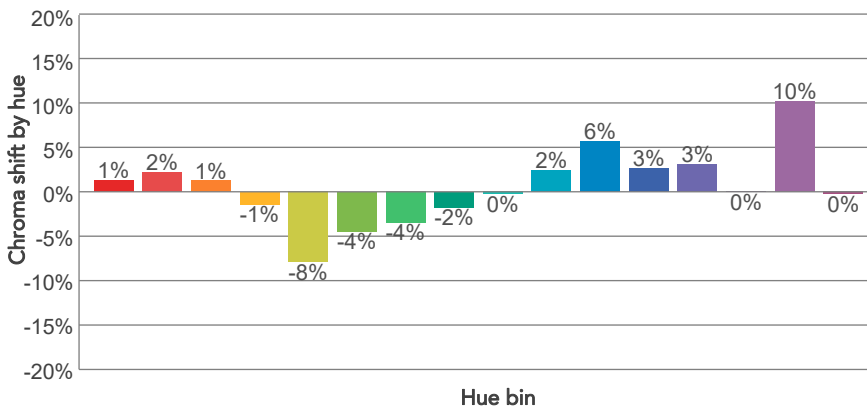
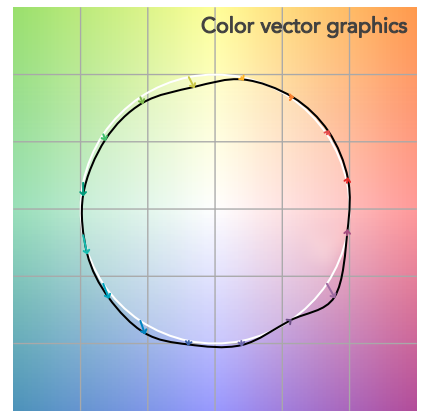
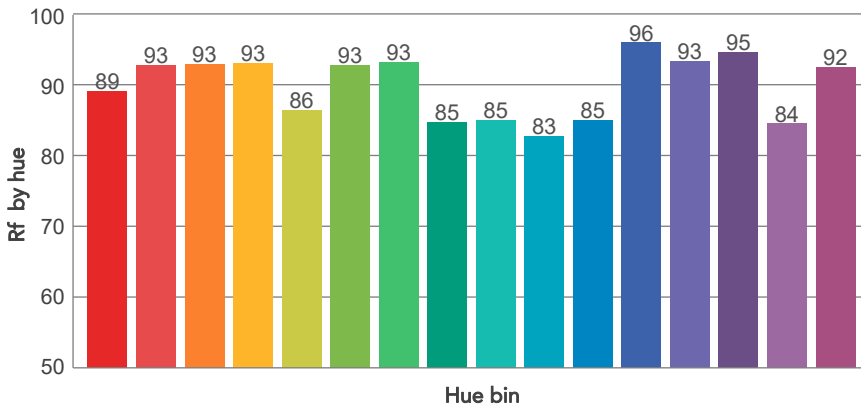
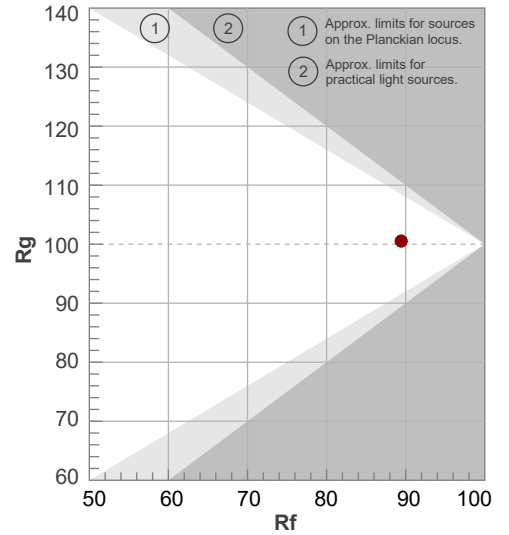
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5970 K	92,7	72,0	89,4	100,5	92,3	95	0,324	0,319	-0,0073

TM30 DETAILS

Rf 89,4
Fidelity index Rf

Rg 100,5
Gammut index

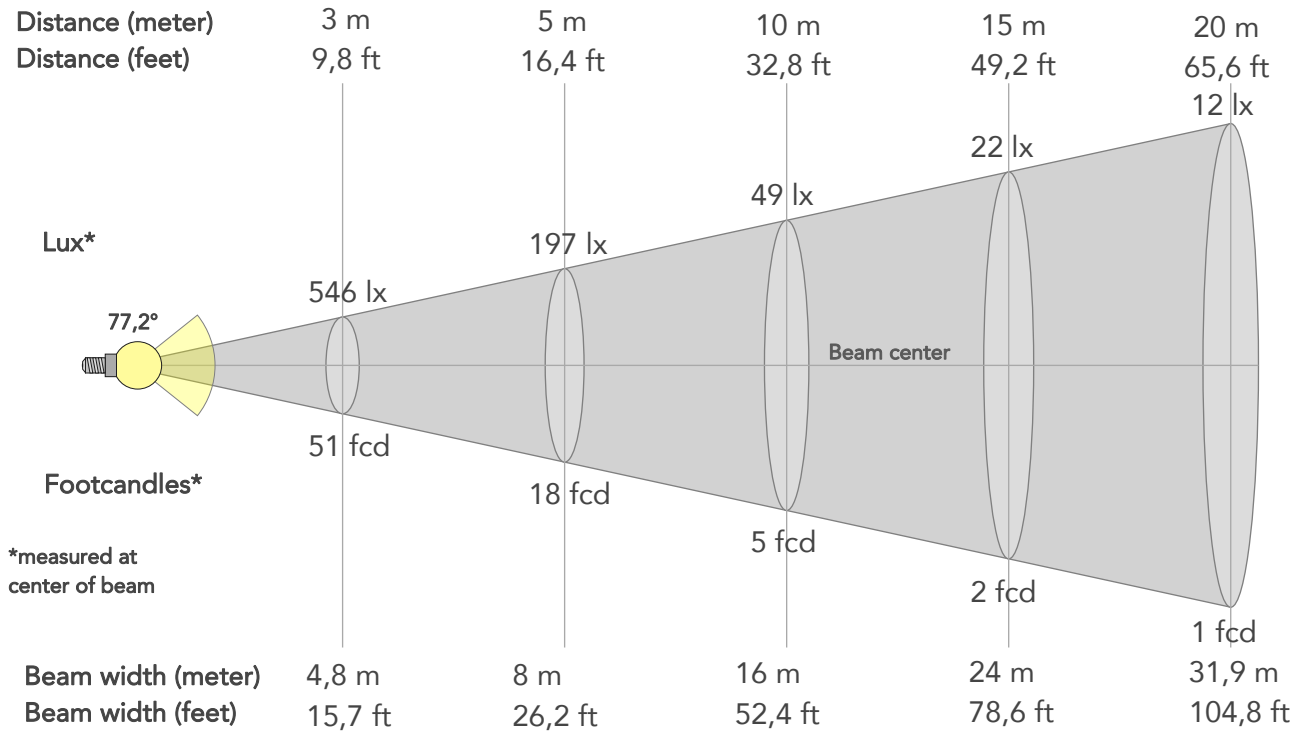
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	1%	3%
2	93	2%	1%
3	93	1%	-2%
4	93	-1%	-2%
5	86	-8%	-2%
6	93	-4%	1%
7	93	-4%	3%
8	85	-2%	9%
9	85	0%	14%
10	83	2%	11%
11	85	6%	8%
12	96	3%	0%
13	93	3%	0%
14	95	0%	1%
15	84	10%	-5%
16	92	0%	3%



BEAM DETAILS



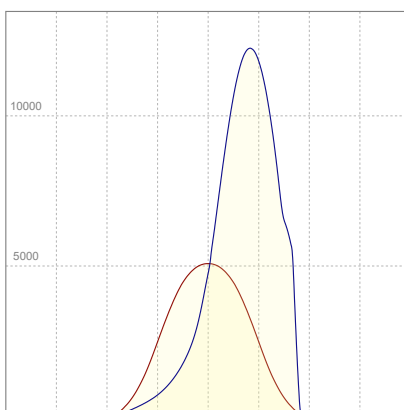
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
77,2°	125,4°	151,7°	79,0%	52,5%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	4916lx	1229lx	546lx	307lx	197lx	87lx	49lx	22lx	12lx	8lx	5lx	3lx	2lx
Footcand.	457fcd	114fcd	51fcd	29fcd	18fcd	8fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	1,6m	3,2m	4,8m	6,4m	8m	12m	16m	24m	31,9m	39,9m	47,9m	63,9m	79,9m
Beam wid.	5,3ft	10,5ft	15,7ft	20,9ft	26,2ft	39,3ft	52,4ft	78,6ft	104,8ft	131ft	157,2ft	209,5ft	261,9ft

LINEAR DISTRIBUTION DIAGRAM

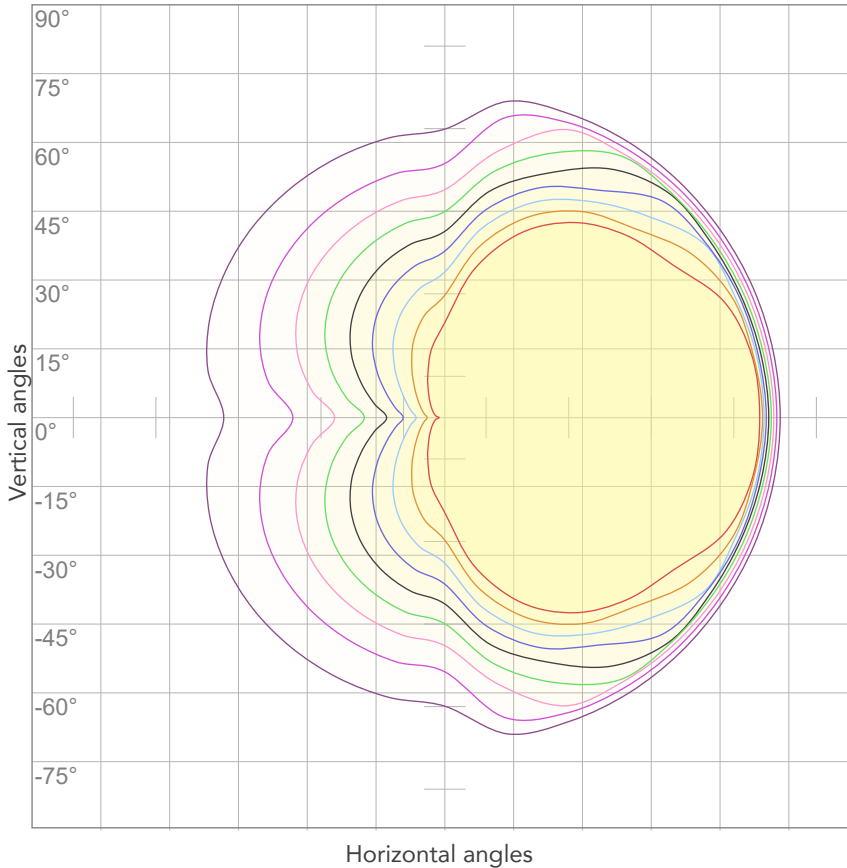


ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	1,17A	256,2W	0,96	69lm/W

ISO DIAGRAMS

ISO CANDELA DIAGRAM



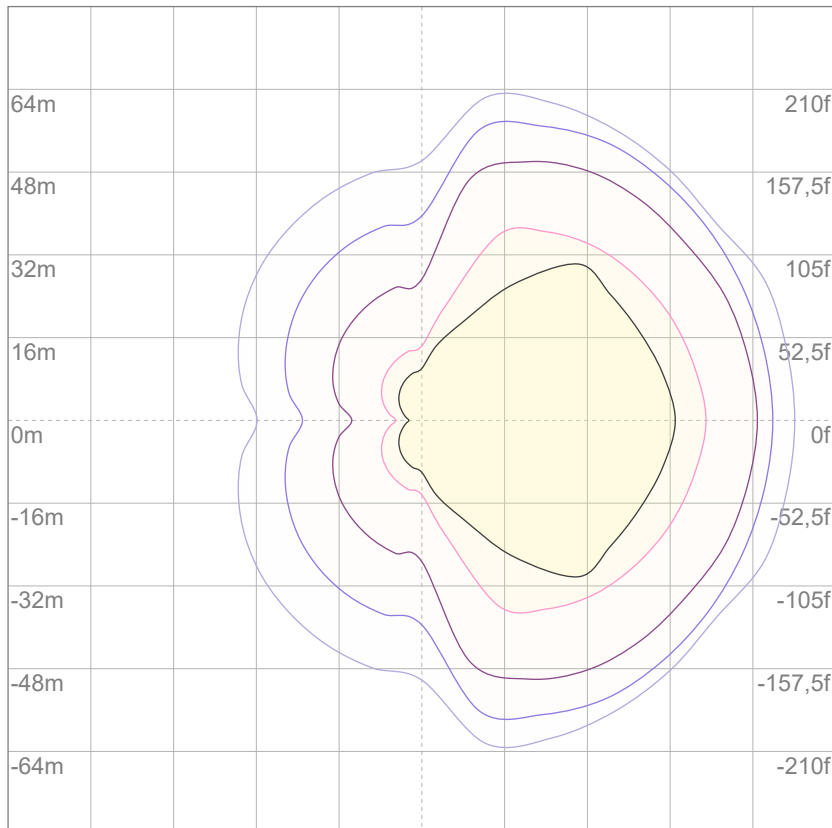
10%	492 cd
20%	983 cd
30%	1475 cd
40%	1966 cd
50%	2458 cd
60%	2949 cd
70%	3441 cd
80%	3933 cd

Conditions:

Number of c-planes: 4

Candela at center: 4916 cd

ISO LUX DIAGRAM



3%	1,47 lx
5%	2,46 lx
10%	4,92 lx
30%	14,7 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.

Mounting height: 10 meters (33 feet)