Photometric Test Report

EclPar DotFC

20W RGB+WW LED pinspot, 6° beam angle

(HB Mode)

CONTENTS

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:

613 lm

Peak candela output:

32880 cd

Light quality:

CRI: 83,8

Color temperature:

7629 K

PRODUCT NAME:

ECLPARDOTFC

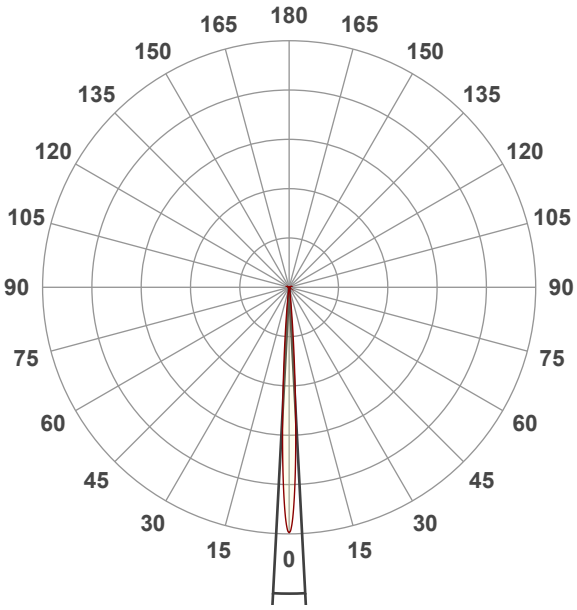
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
Full On - HB

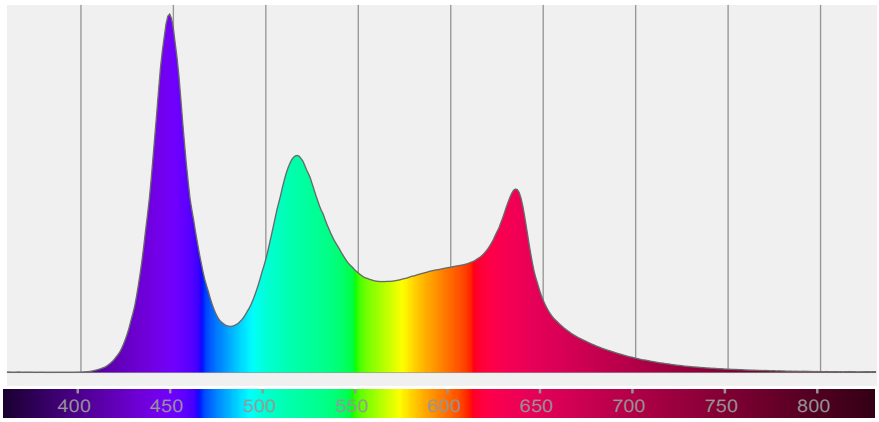
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:22:53

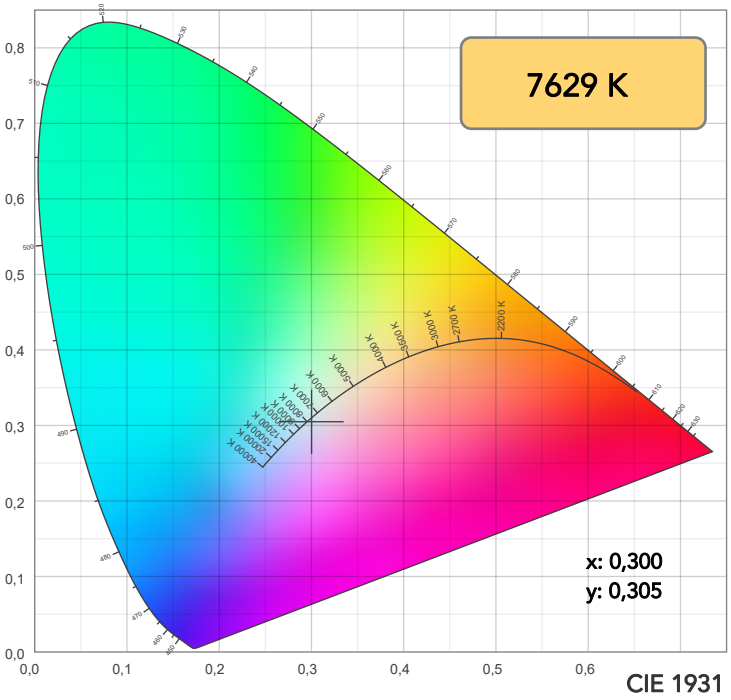


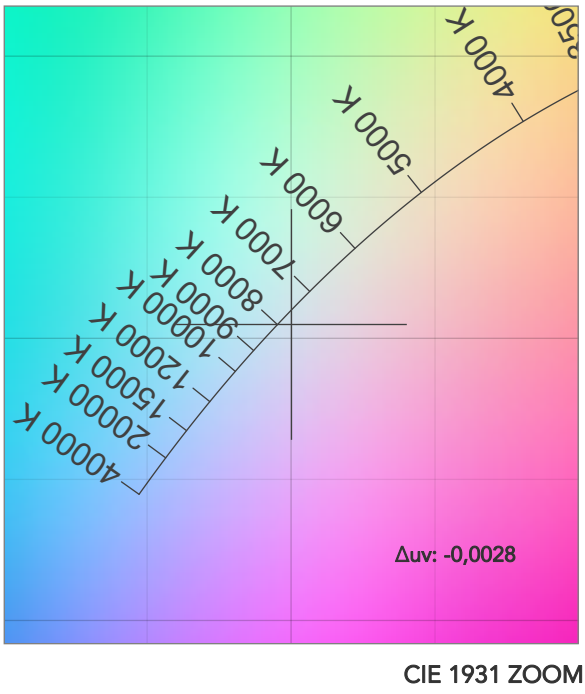
Beam angle 50%: 6°
Field angle 10%: 11,5°
Cut off angle 2.5%: 16,4°

Spectra

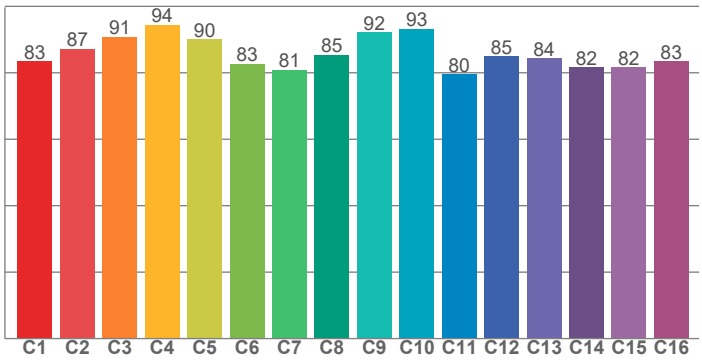


COLOR DETAILS

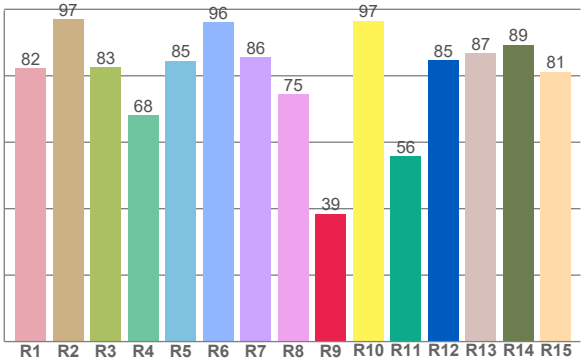




TM30: 86,9



CRI: 83,8 (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
82,2	97,1	82,7	68,1	84,5	96,0	85,6	74,5	38,5	96,6	55,8	84,7	86,8	89,4	81,2

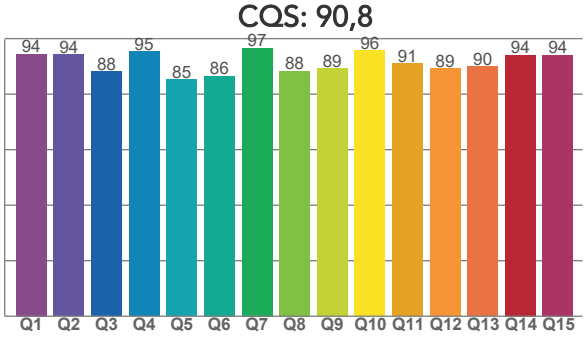
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
83,4	87,3	90,9	94,4	90,1	82,7	80,9	85,4	92,2	93,3	79,6	85,0	84,3	81,7	81,7	83,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,4	94,2	88,1	95,4	85,3	86,5	96,7	88,3	89,2	95,8	91,1	89,2	90,0	94,1	94,1

CQS: 90,8



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7629 K	83,8	38,5	86,9	112,3	90,8	76	0,300	0,305	-0,0028

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TM30 DETAILS

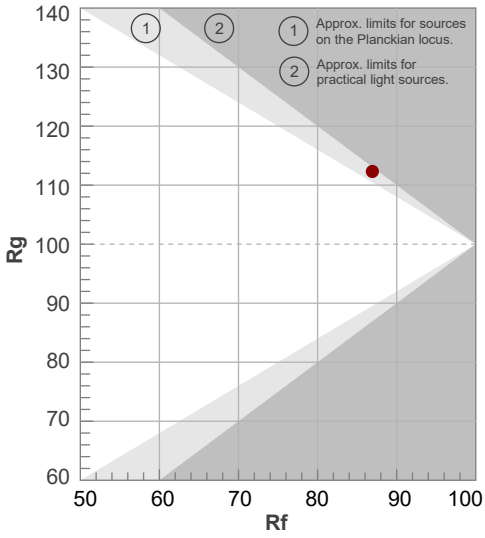
Rf 86,9

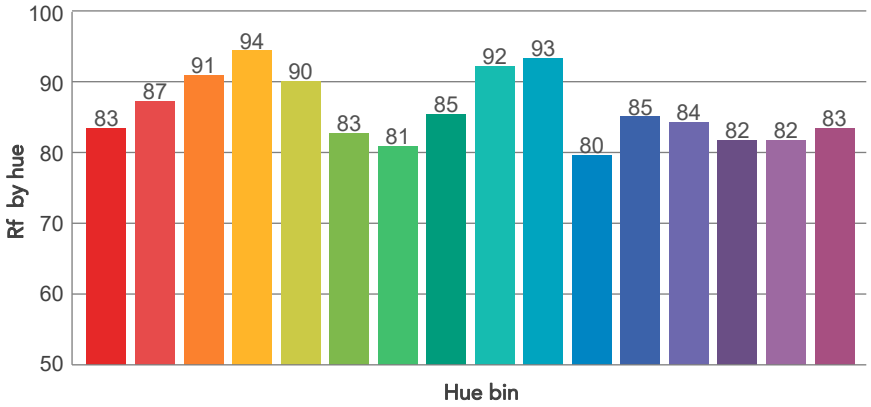
Fidelity index Rf

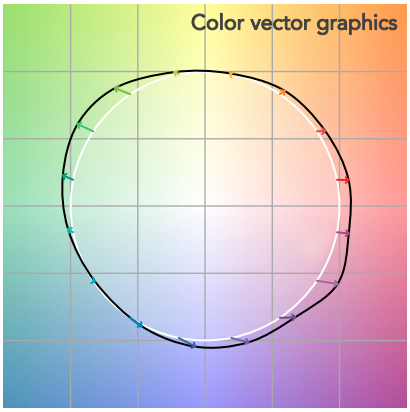
Rg 112,3

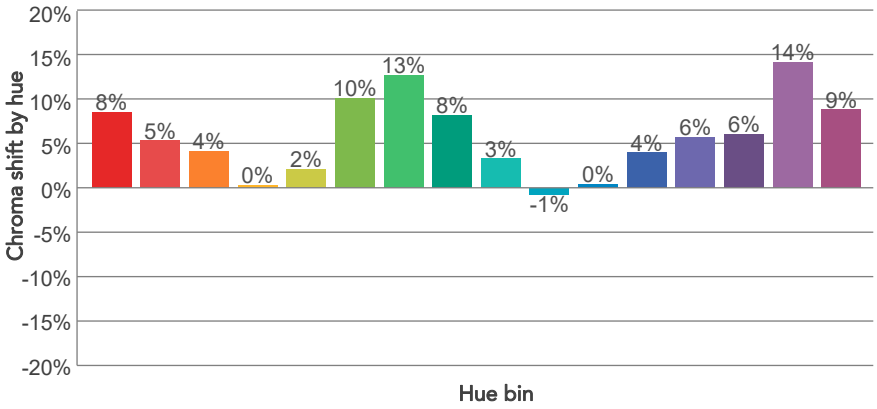
Gammut index

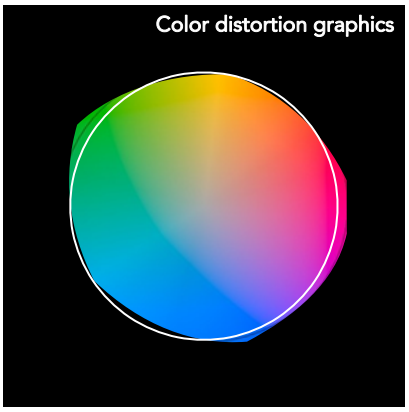
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	83	8%	-2%
2	87	5%	-3%
3	91	4%	-2%
4	94	0%	1%
5	90	2%	3%
6	83	10%	7%
7	81	13%	2%
8	85	8%	-2%
9	92	3%	-3%
10	93	-1%	1%
11	80	0%	10%
12	85	4%	13%
13	84	6%	12%
14	82	6%	10%
15	82	14%	7%
16	83	9%	1%

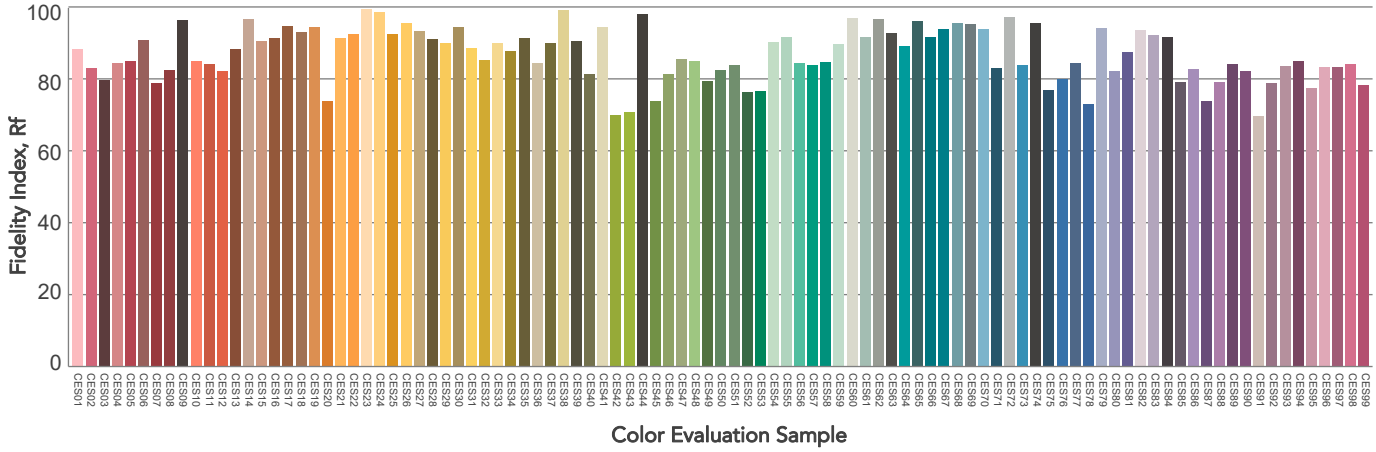












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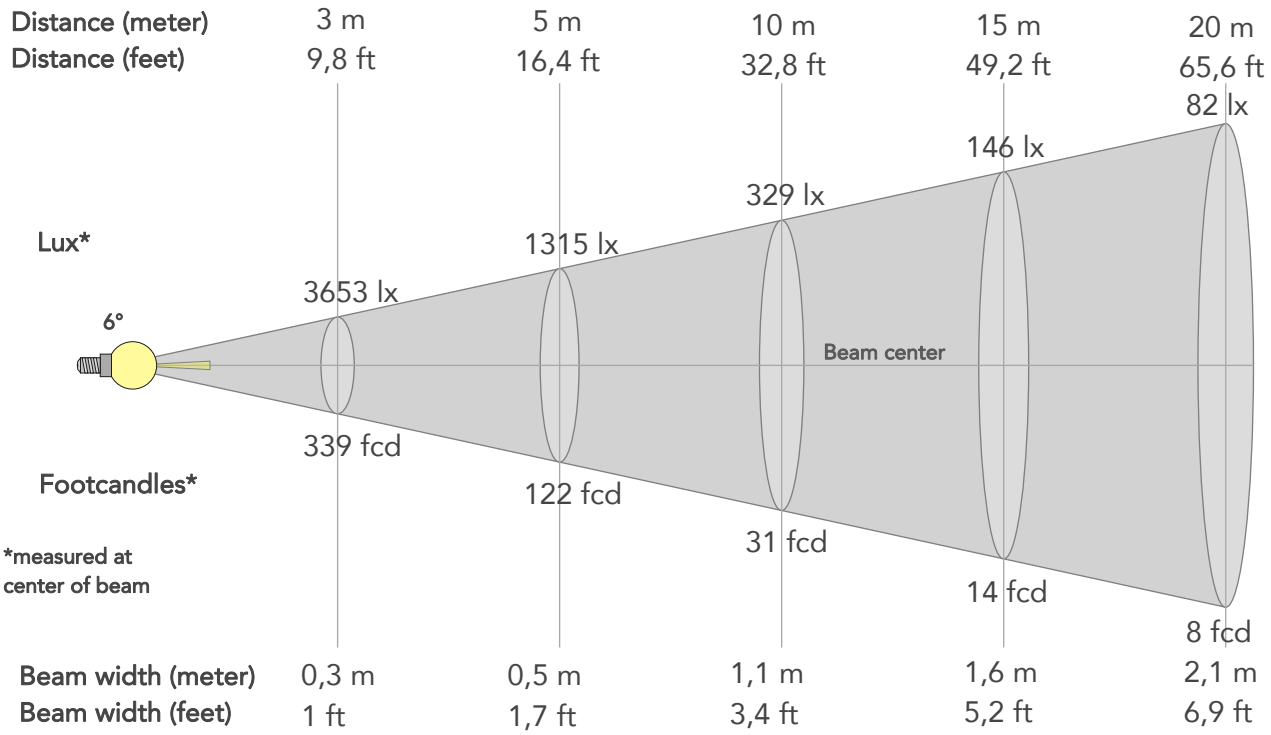
BEAM DETAILS

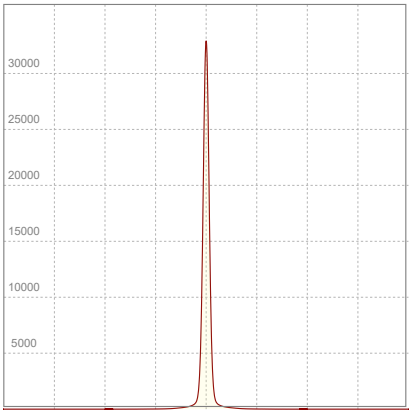
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,5°	16,4°	99,3%	97,5%



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	32880lx	8220lx	3653lx	2055lx	1315lx	585lx	329lx	146lx	82lx	53lx	37lx	21lx	13lx
Footcand.	3055fcd	764fcd	339fcd	191fcd	122fcd	54fcd	31fcd	14fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1,1m	1,6m	2,1m	2,6m	3,2m	4,2m	5,3m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,2ft	6,9ft	8,6ft	10,3ft	13,8ft	17,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,183A	20,2W	0,48	30lm/W

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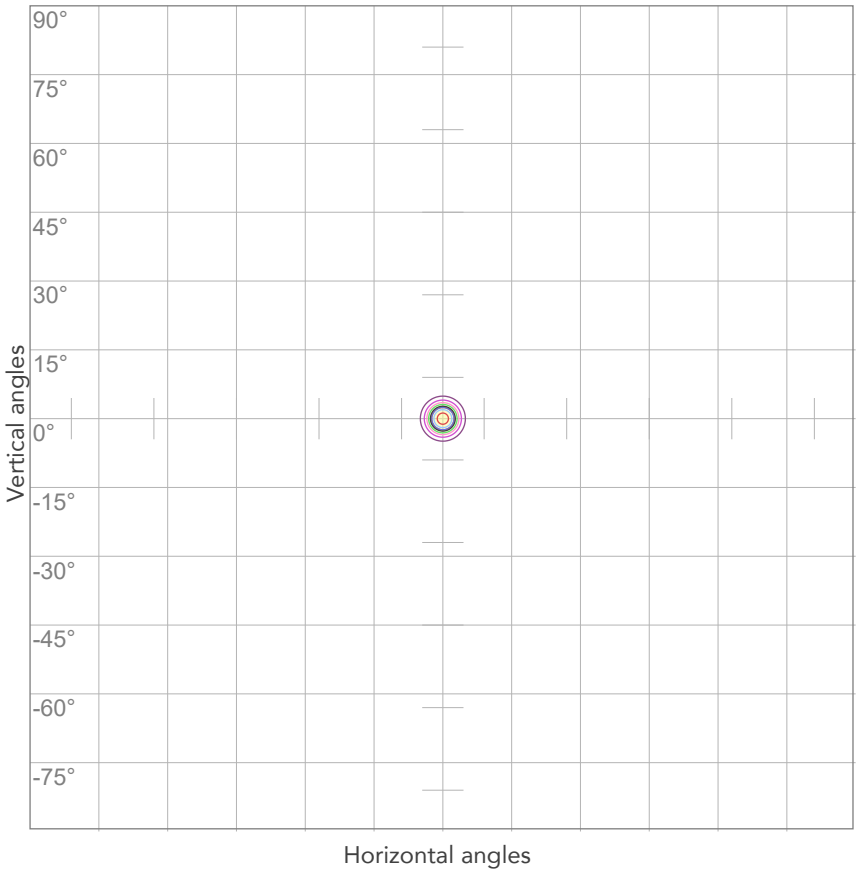
ISO DIAGRAMS

ISO CANDELA DIAGRAM



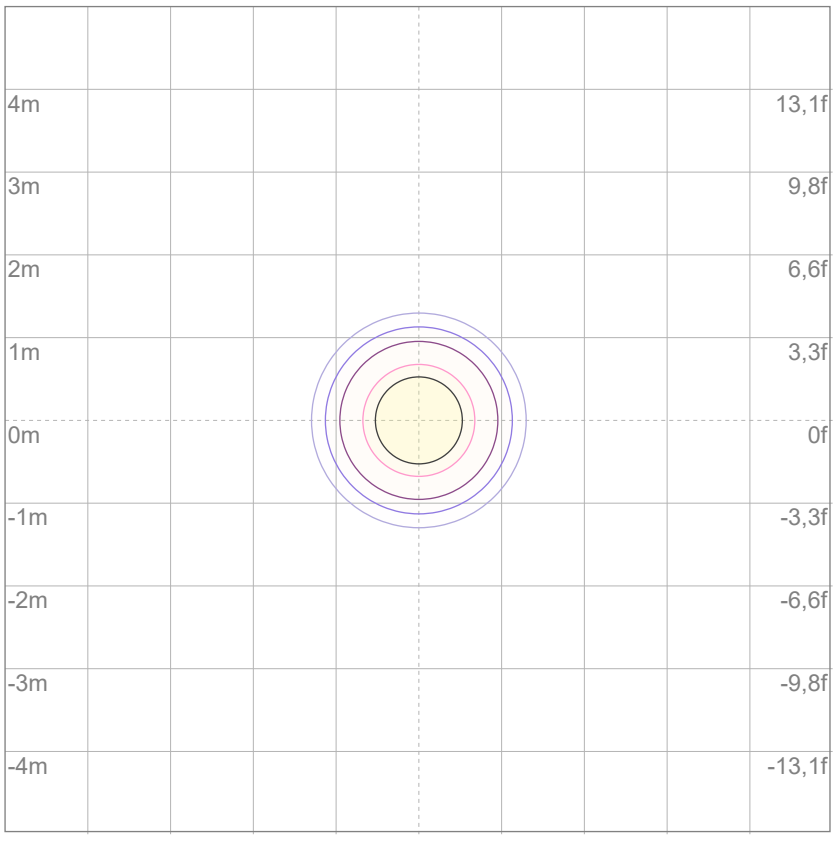
10%	3288 cd
20%	6576 cd
30%	9864 cd
40%	13152 cd
50%	16440 cd
60%	19728 cd
70%	23016 cd
80%	26304 cd

Conditions:

Number of c-planes: 2

Candela at center: 32880 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,86 lx
5%	16,4 lx
10%	32,9 lx
30%	98,6 lx
50%	164 lx

Conditions:

Number of c-planes: 2

Lux at center: 329 lx

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

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Total lumen output:

179 lm

Peak candela output:

10564 cd

PRODUCT NAME:

ECLPARDOTFC

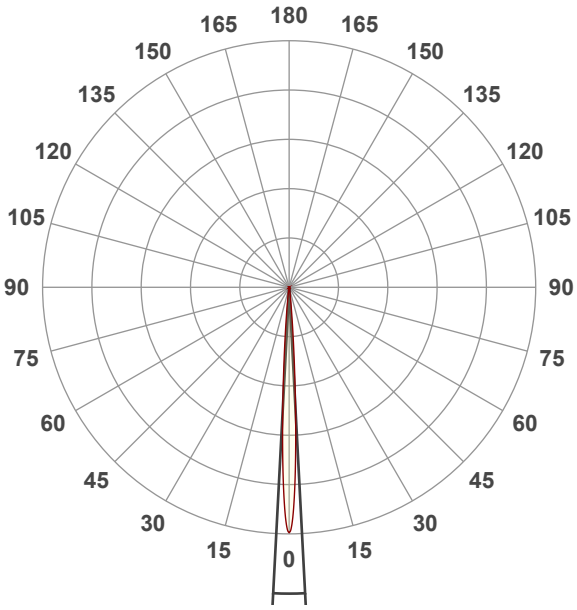
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
Red - HB

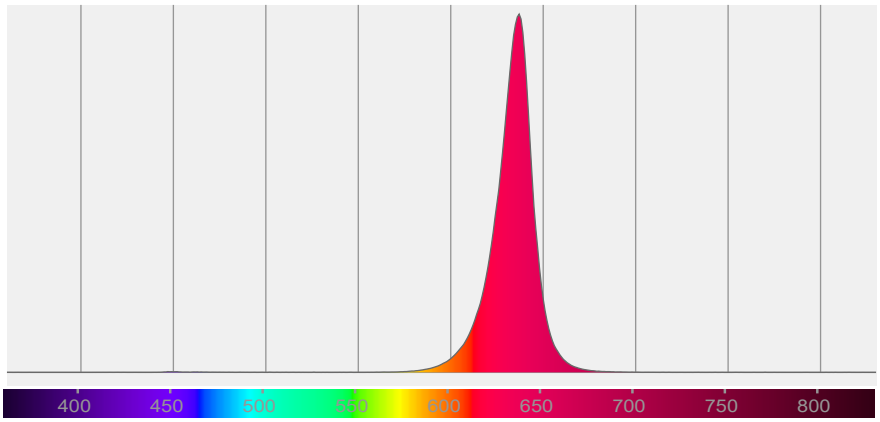
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:26:13



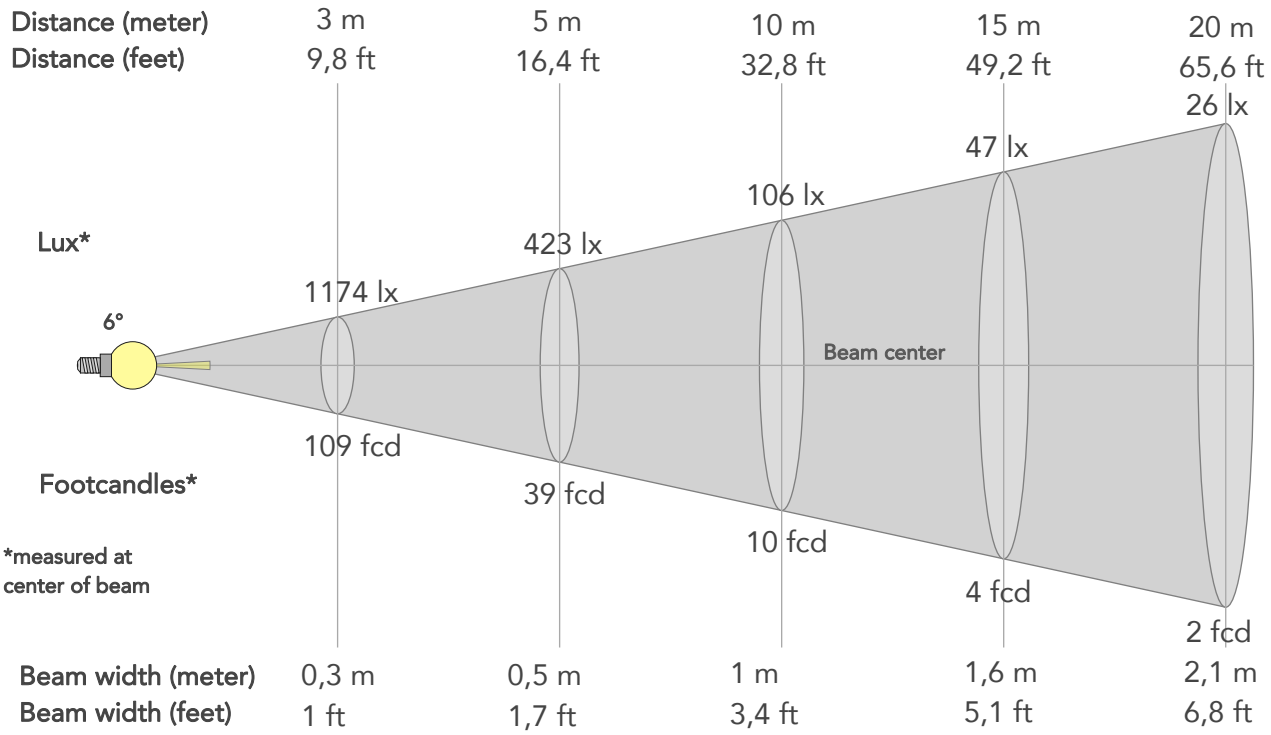
Beam angle 50%: 6°
Field angle 10%: 11,4°
Cut off angle 2.5%: 16°

Spectra



BEAM DETAILS

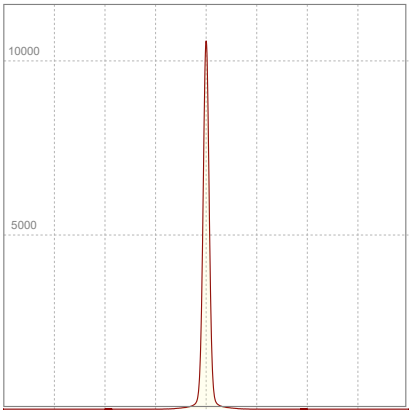
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16°	100,0%	99,9%



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	10564lx	2641lx	1174lx	660lx	423lx	188lx	106lx	47lx	26lx	17lx	12lx	7lx	4lx
Footcand.	981fcd	245fcd	109fcd	61fcd	39fcd	17fcd	10fcd	4fcd	2fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,2m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,1ft	6,8ft	8,6ft	10,3ft	13,7ft	17,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
228V	0,103A	10,7W	0,45	17lm/W

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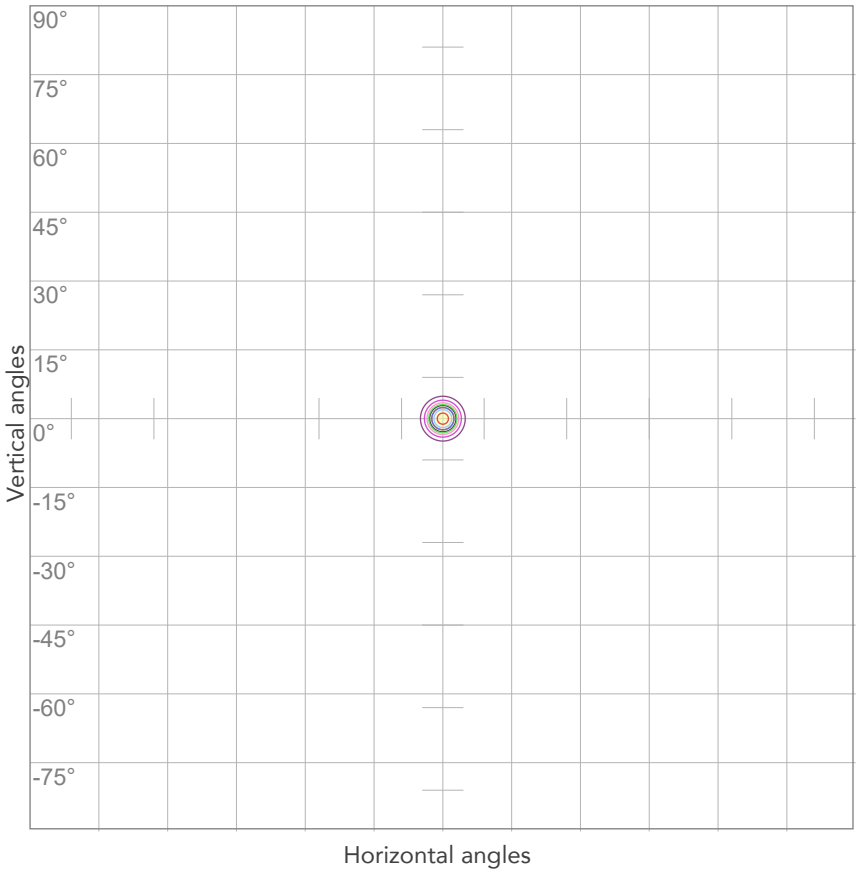
ISO DIAGRAMS

ISO CANDELA DIAGRAM



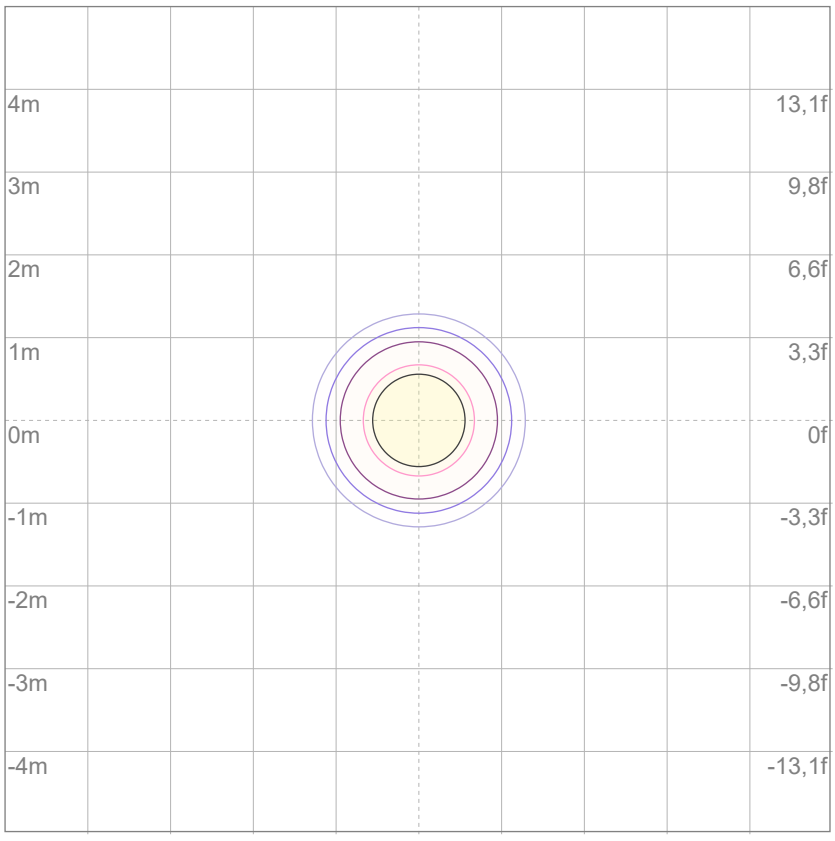
10%	1056 cd
20%	2113 cd
30%	3169 cd
40%	4226 cd
50%	5282 cd
60%	6339 cd
70%	7395 cd
80%	8452 cd

Conditions:

Number of c-planes: 2

Candela at center: 10564 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,17 lx
5%	5,28 lx
10%	10,6 lx
30%	31,7 lx
50%	52,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 106 lx

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

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Total lumen output:

351 lm

Peak candela output:

17954 cd

PRODUCT NAME:

ECLPARDOTFC

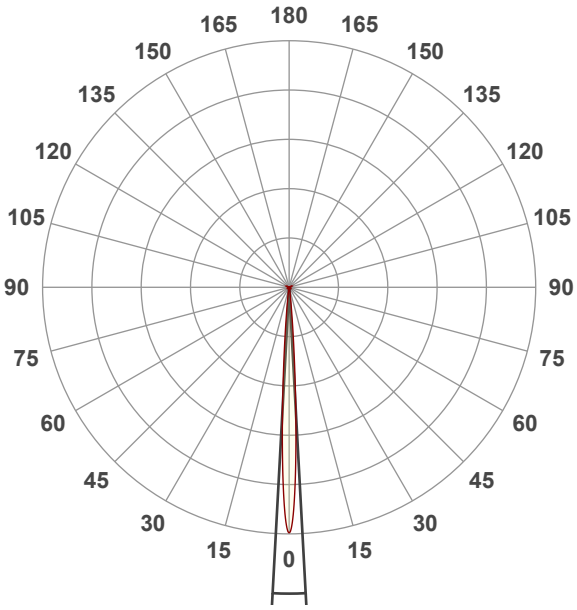
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
Green- HB

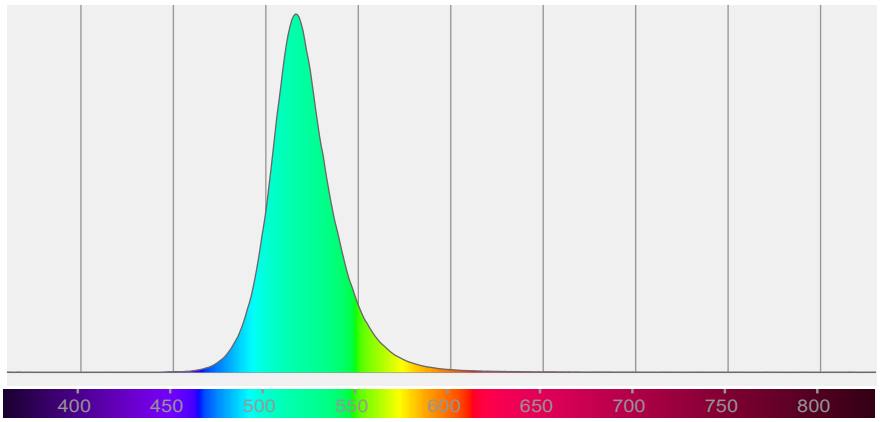
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:29:30



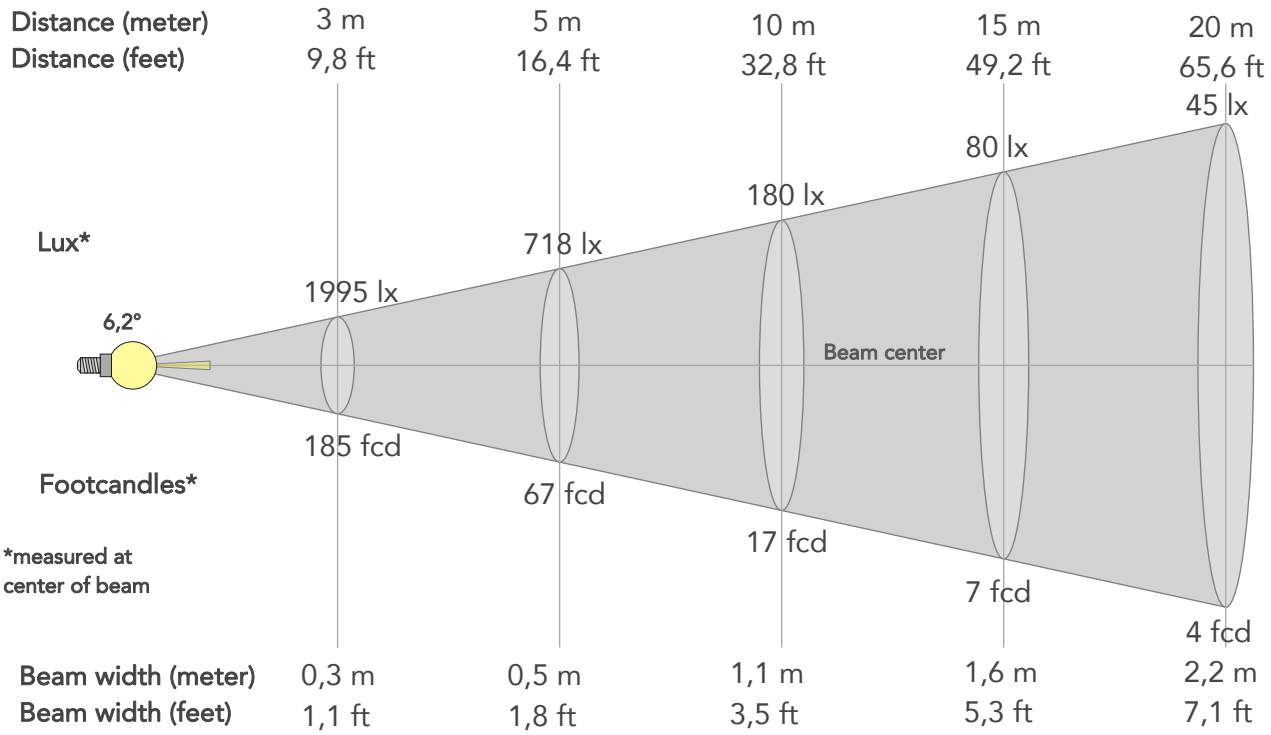
Beam angle 50%: 6,2°
Field angle 10%: 11,7°
Cut off angle 2.5%: 16,7°

Spectra



BEAM DETAILS

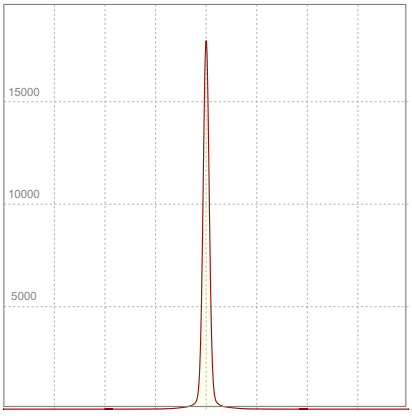
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,2°	11,7°	16,7°	99,4%	97,6%



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	17954lx	4488lx	1995lx	1122lx	718lx	319lx	180lx	80lx	45lx	29lx	20lx	11lx	7lx
Footcand.	1668fcd	417fcd	185fcd	104fcd	67fcd	30fcd	17fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1,1m	1,6m	2,2m	2,7m	3,2m	4,3m	5,4m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,5ft	5,3ft	7,1ft	8,9ft	10,6ft	14,2ft	17,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,115A	12,2W	0,46	29lm/W

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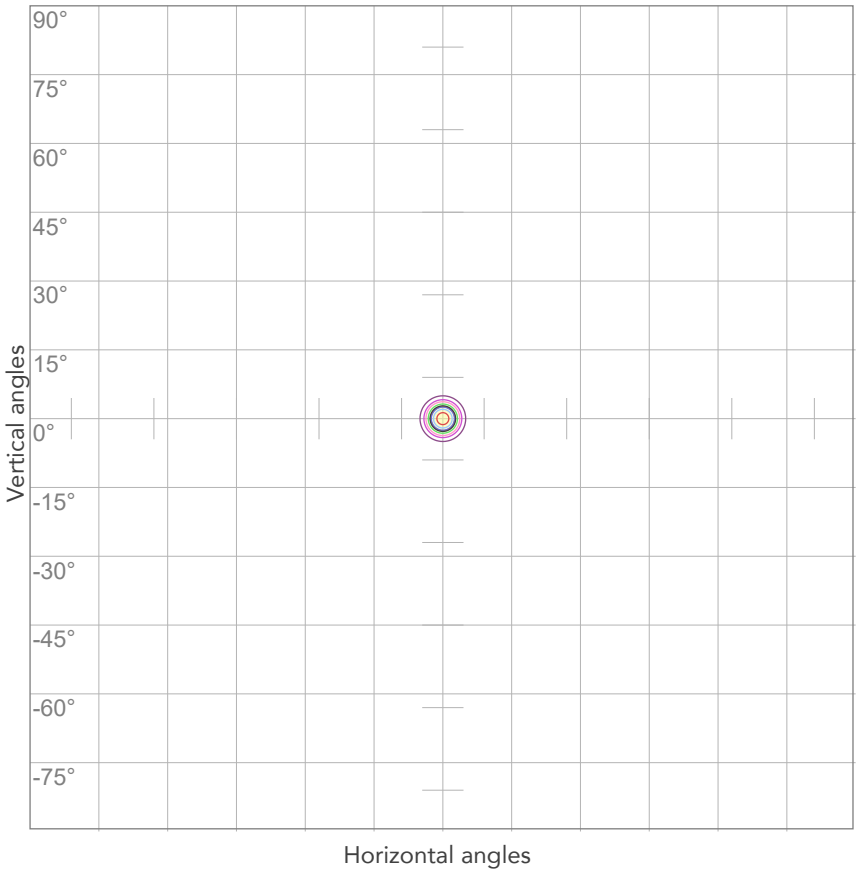
ISO DIAGRAMS

ISO CANDELA DIAGRAM



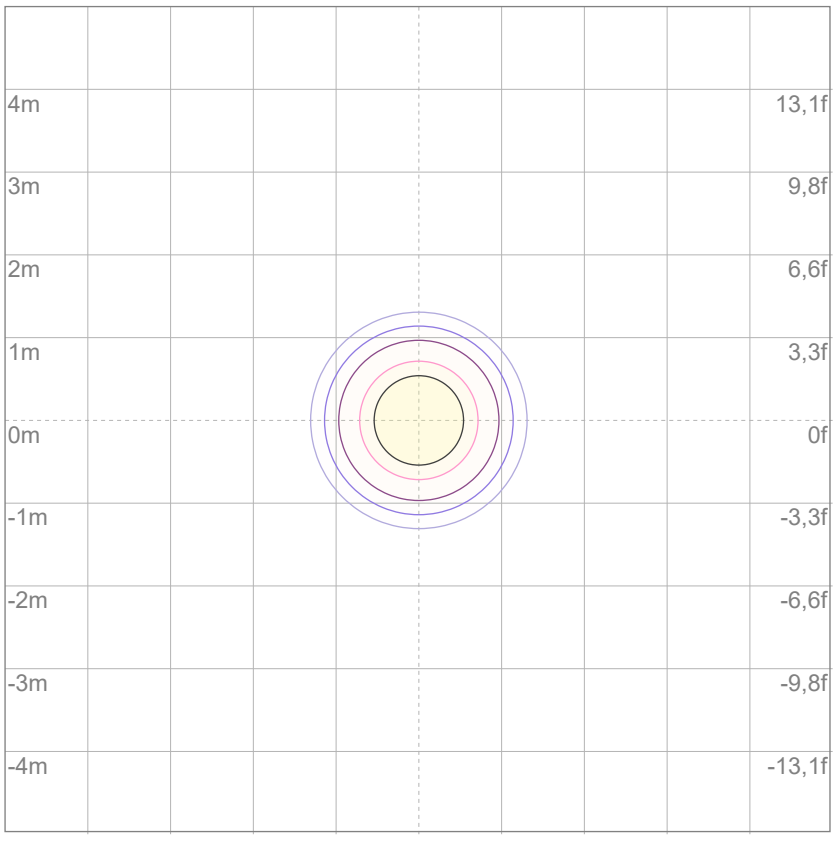
10%	1795 cd
20%	3591 cd
30%	5386 cd
40%	7181 cd
50%	8977 cd
60%	10772 cd
70%	12567 cd
80%	14363 cd

Conditions:

Number of c-planes: 2

Candela at center: 17954 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,39 lx
5%	8,98 lx
10%	18,0 lx
30%	53,9 lx
50%	89,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 180 lx

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

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Total lumen output:

67,3 lm

Peak candela output:

3761 cd

PRODUCT NAME:

ECLPARDOTFC

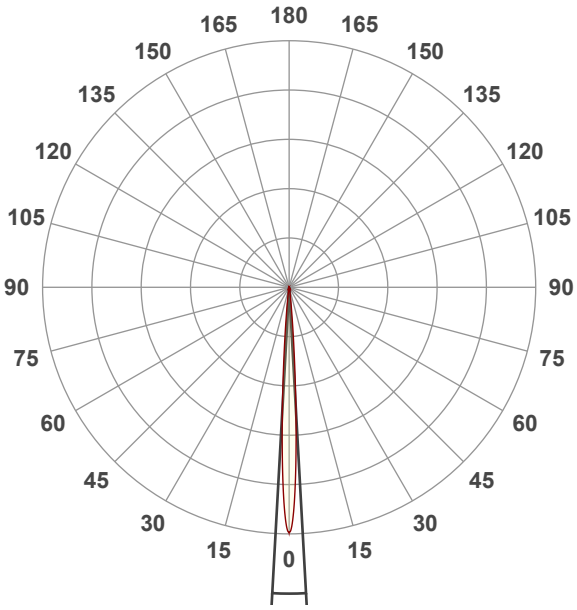
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
Blue - HB

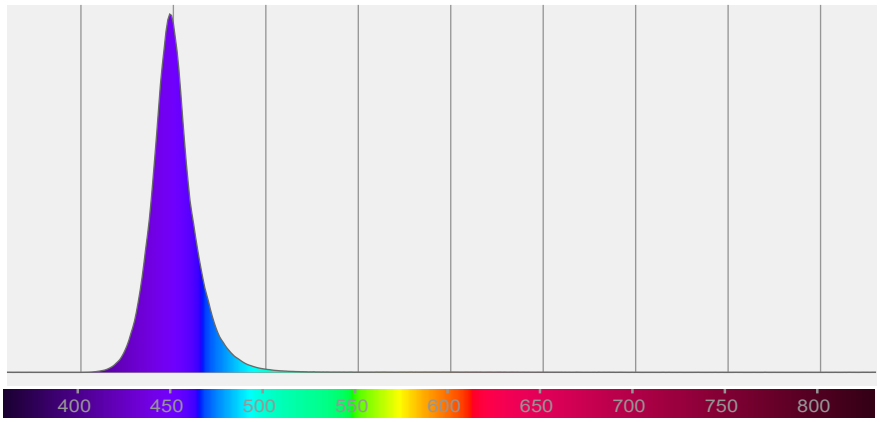
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:32:56



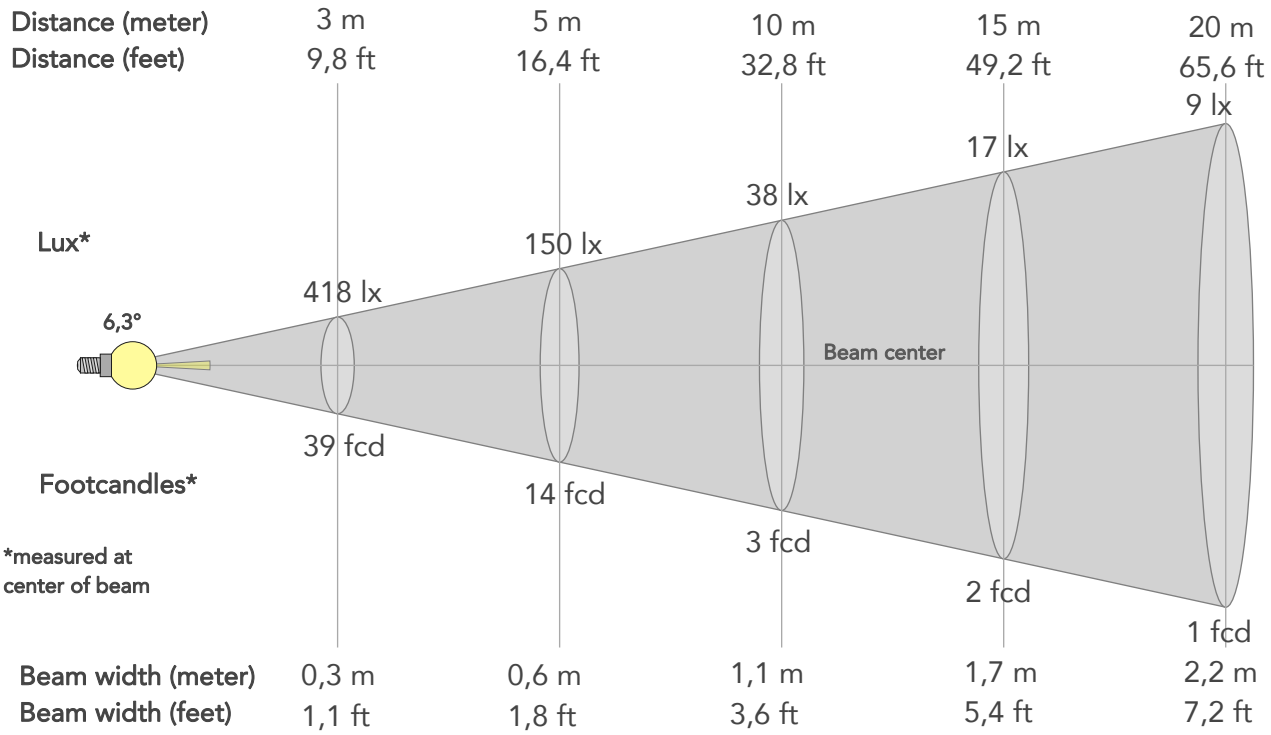
Beam angle 50%: 6,3°
Field angle 10%: 11,9°
Cut off angle 2.5%: 16,8°

Spectra



BEAM DETAILS

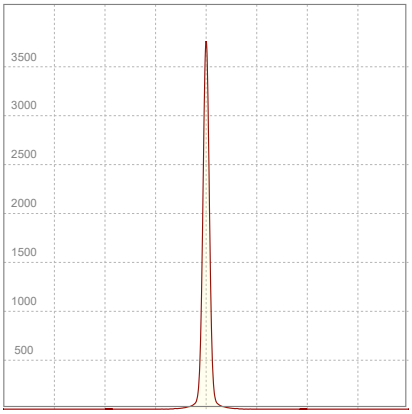
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	11,9°	16,8°	100,0%	100,0%



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	3761lx	940lx	418lx	235lx	150lx	67lx	38lx	17lx	9lx	6lx	4lx	2lx	2lx
Footcand.	349fcd	87fcd	39fcd	22fcd	14fcd	6fcd	3fcd	2fcd	1fcd	1fcd	0fcd	0fcd	0fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,6m	0,8m	1,1m	1,7m	2,2m	2,8m	3,3m	4,4m	5,5m
Beam wid.	0,4ft	0,7ft	1,1ft	1,4ft	1,8ft	2,7ft	3,6ft	5,4ft	7,2ft	9ft	10,9ft	14,5ft	18,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,113A	12,4W	0,49	5lm/W

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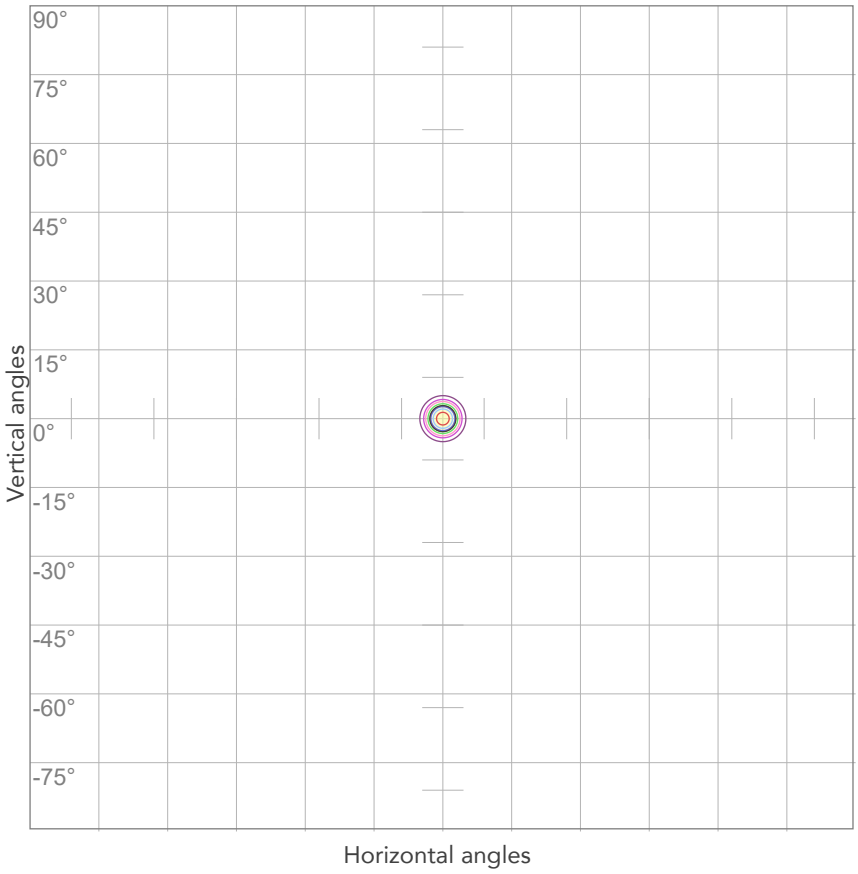
ISO DIAGRAMS

ISO CANDELA DIAGRAM



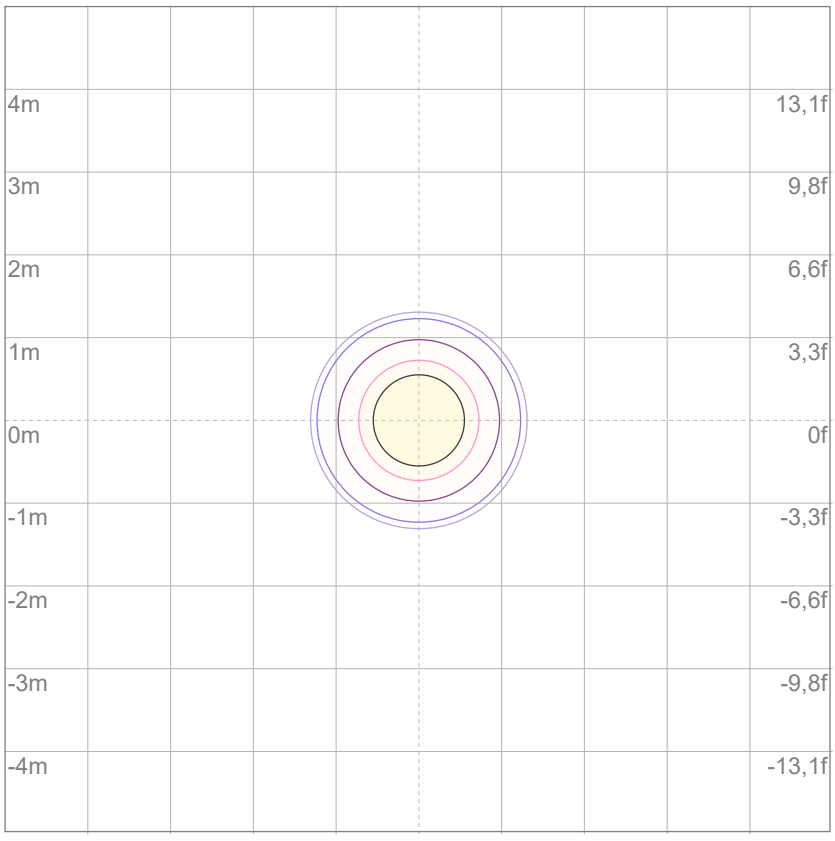
10%	376 cd
20%	752 cd
30%	1128 cd
40%	1504 cd
50%	1880 cd
60%	2257 cd
70%	2633 cd
80%	3009 cd

Conditions:

Number of c-planes: 2

Candela at center: 3761 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	1,13 lx
5%	1,88 lx
10%	3,76 lx
30%	11,3 lx
50%	18,8 lx

Conditions:

Number of c-planes: 2

Lux at center: 37,6 lx

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

Total lumen output:

370 lm

Peak candela output:

20430 cd

Light quality:

CRI: 80,1

Color temperature:

3262 K

PRODUCT NAME:

ECLPARDOTFC

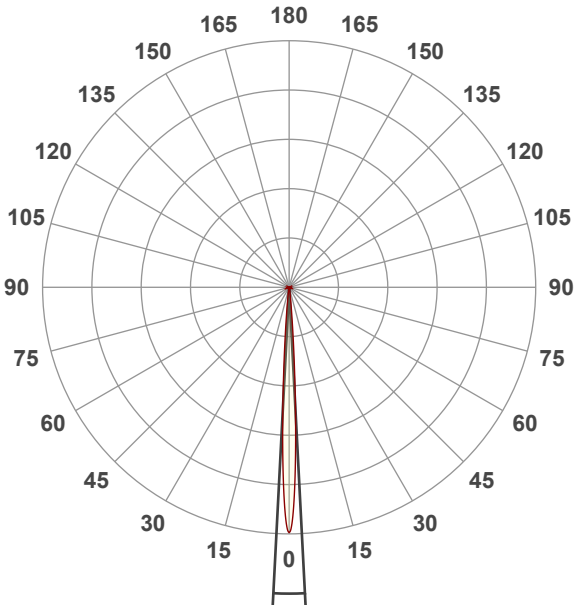
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
White - HB

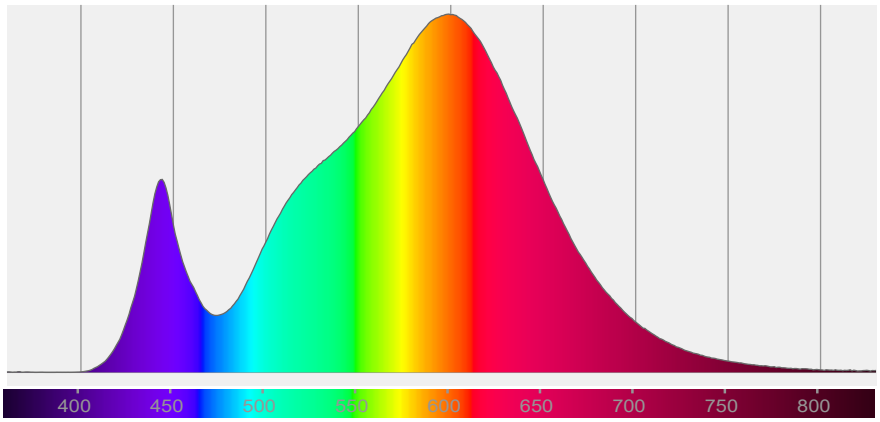
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:36:24

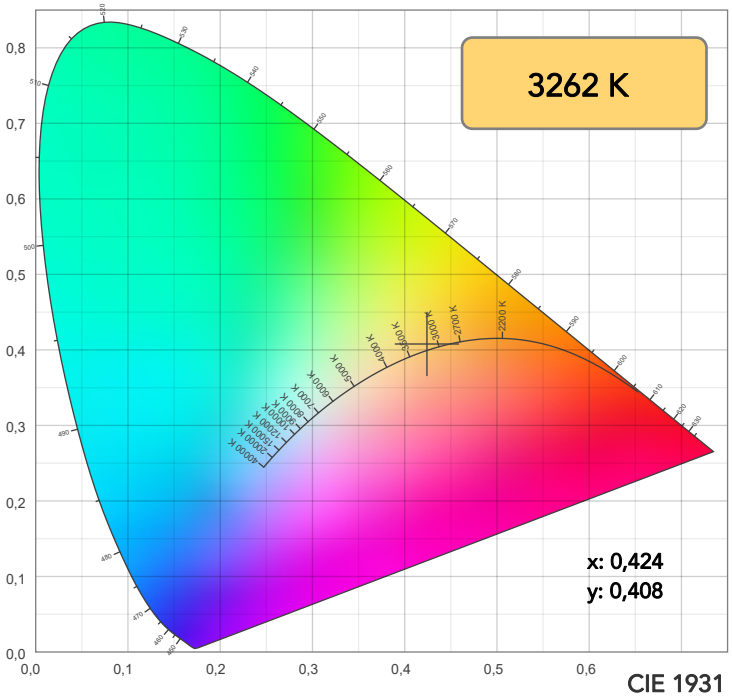


Beam angle 50%: 5,9°
Field angle 10%: 11,3°
Cut off angle 2.5%: 16,1°

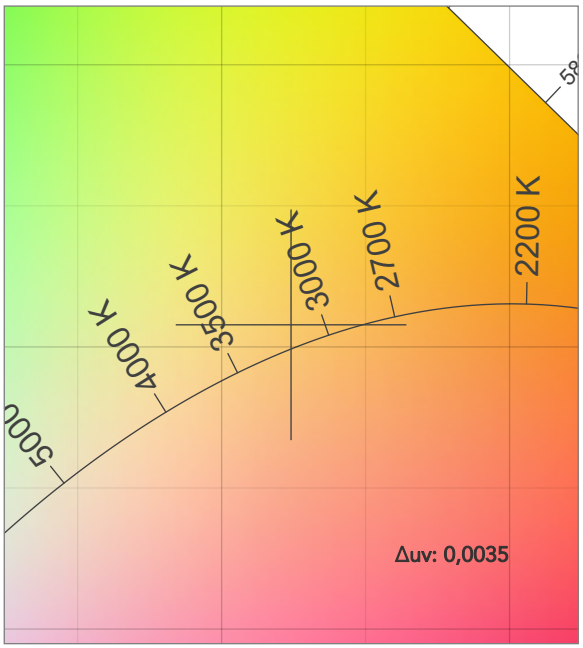
Spectra



COLOR DETAILS

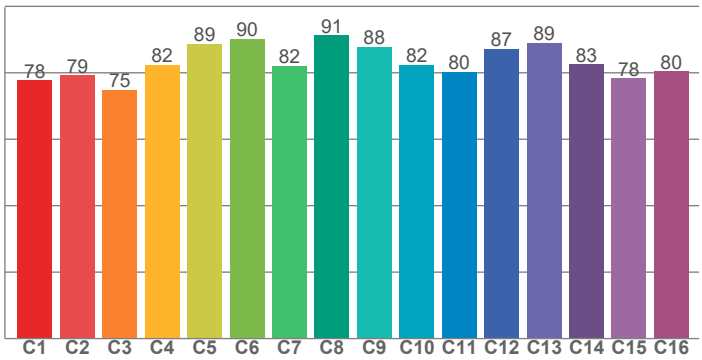


CIE 1931

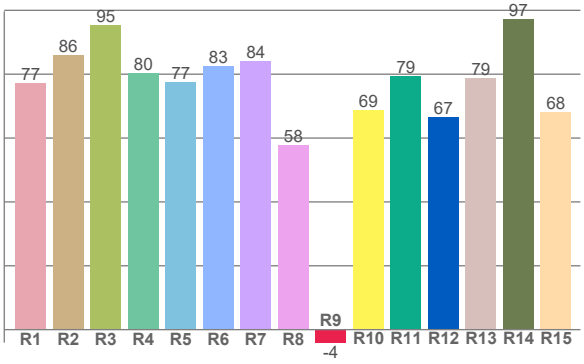


CIE 1931 ZOOM

TM30: 83,1



CRI: 80,1 (R1-R8)



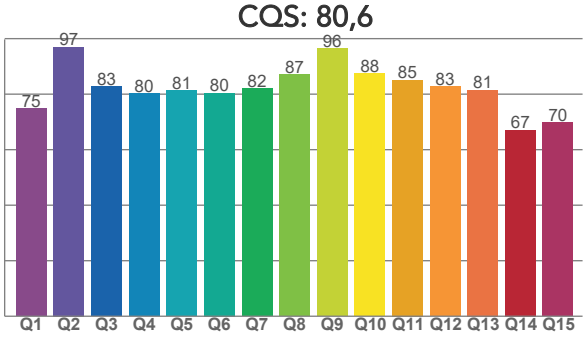
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
77,2	86,0	95,2	80,2	77,4	82,6	84,1	57,8	-4,1	68,7	79,3	66,5	78,8	97,2	68,2

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
77,8	79,3	74,8	82,4	88,7	90,2	82,1	91,3	87,8	82,4	80,4	87,2	89,0	82,6	78,3	80,4

CQS: 80,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,9	96,9	82,7	80,2	81,3	80,4	82,1	87,1	96,4	87,5	85,0	82,8	81,4	67,0	69,9

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3262 K	80,1	-4,1	83,1	96,5	80,6	63	0,424	0,408	0,0035

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TM30 DETAILS

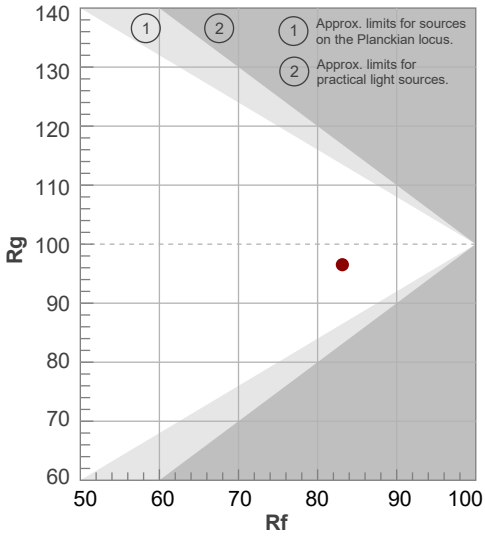
Rf 83,1

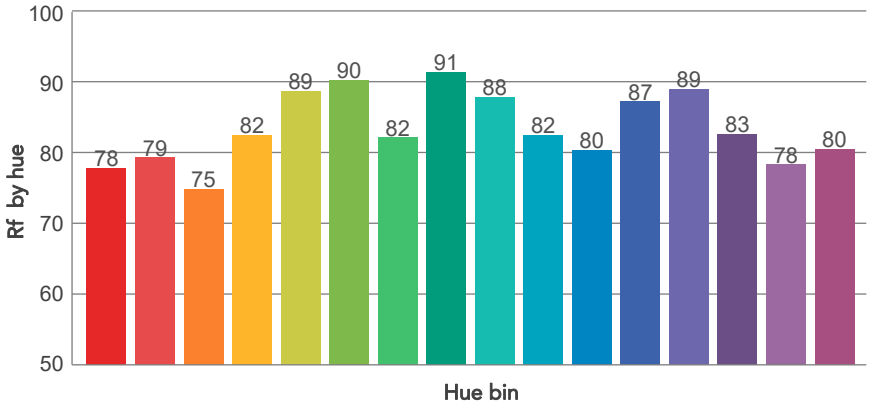
Fidelity index Rf

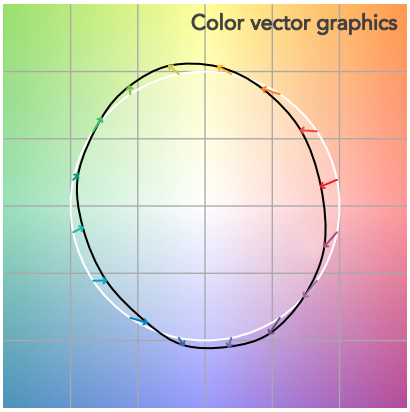
Rg 96,5

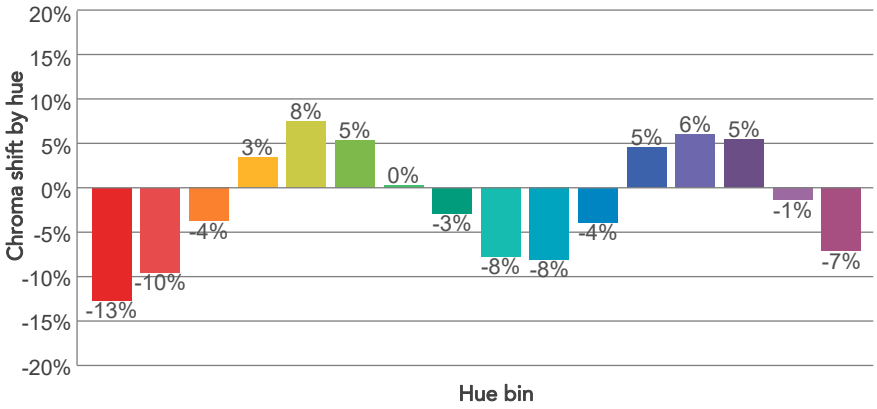
Gammut index

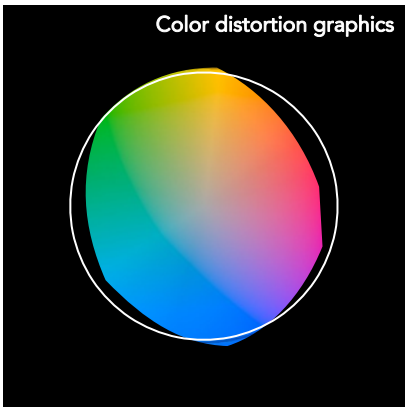
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	78	-13%	-3%
2	79	-10%	7%
3	75	-4%	13%
4	82	3%	10%
5	89	8%	6%
6	90	5%	-3%
7	82	0%	-11%
8	91	-3%	-5%
9	88	-8%	-2%
10	82	-8%	5%
11	80	-4%	12%
12	87	5%	5%
13	89	6%	-3%
14	83	5%	-13%
15	78	-1%	-15%
16	80	-7%	-12%

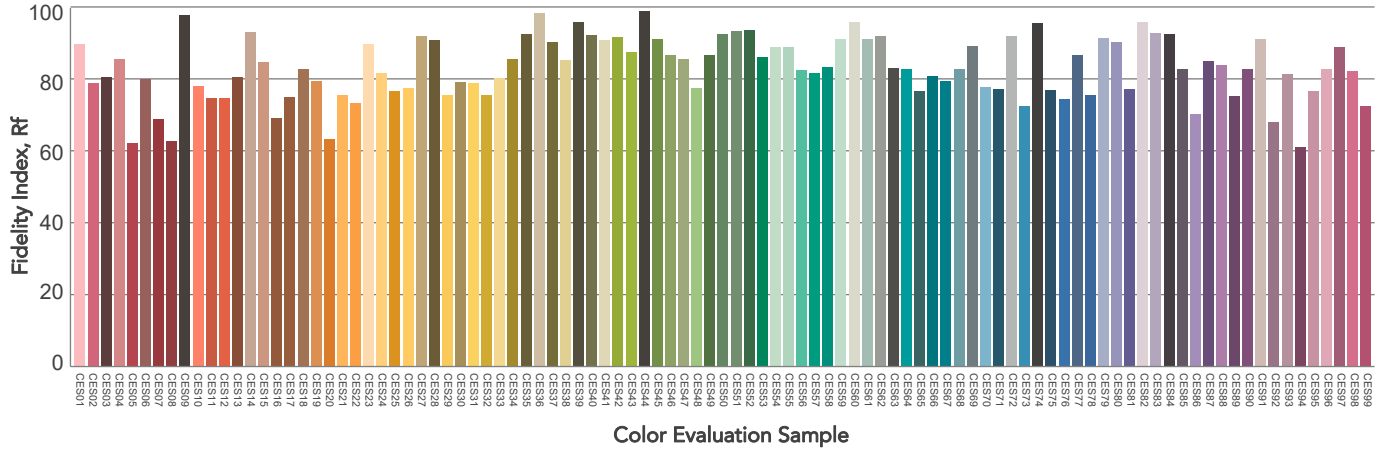












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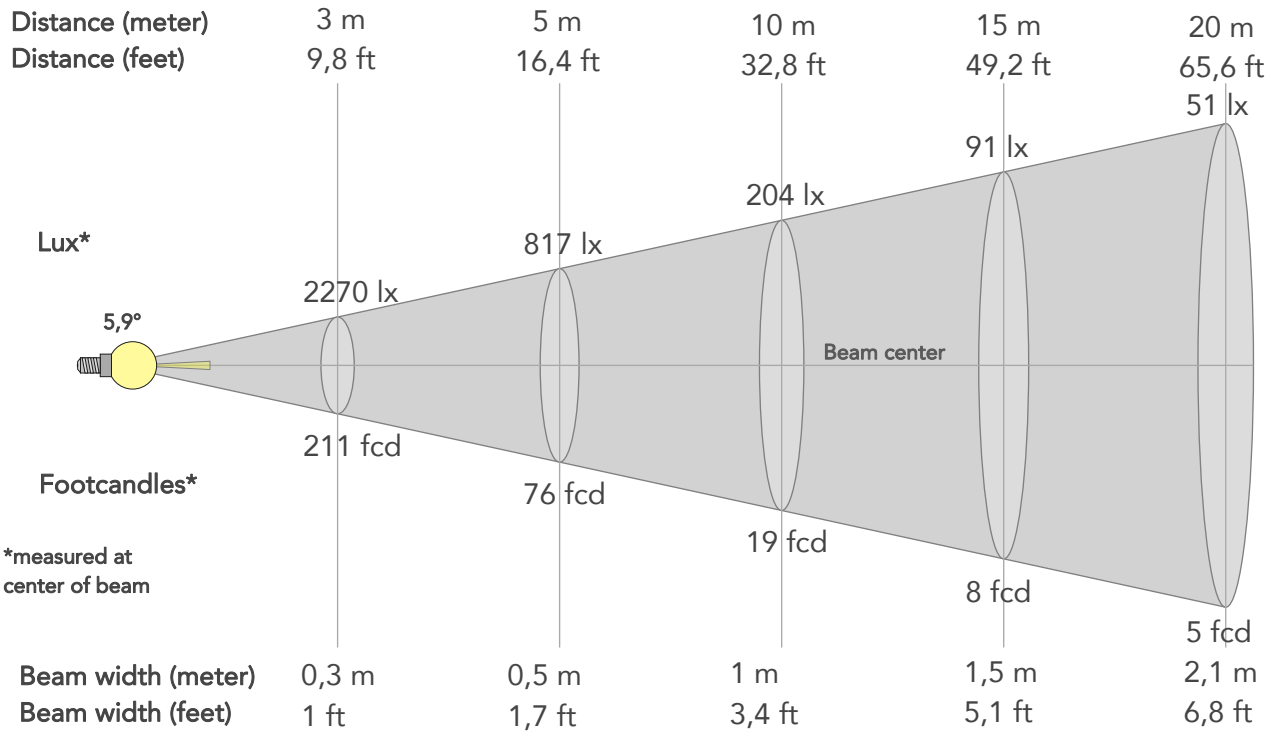
BEAM DETAILS

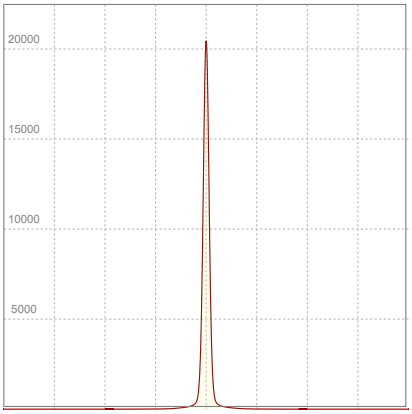
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
5,9°	11,3°	16,1°	99,2%	97,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	20430lx	5108lx	2270lx	1277lx	817lx	363lx	204lx	91lx	51lx	33lx	23lx	13lx	8lx
Footcand.	1898fcd	475fcd	211fcd	119fcd	76fcd	34fcd	19fcd	8fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,5m	2,1m	2,6m	3,1m	4,1m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,5ft	3,4ft	5,1ft	6,8ft	8,5ft	10,2ft	13,5ft	16,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,113A	12,2W	0,47	30lm/W

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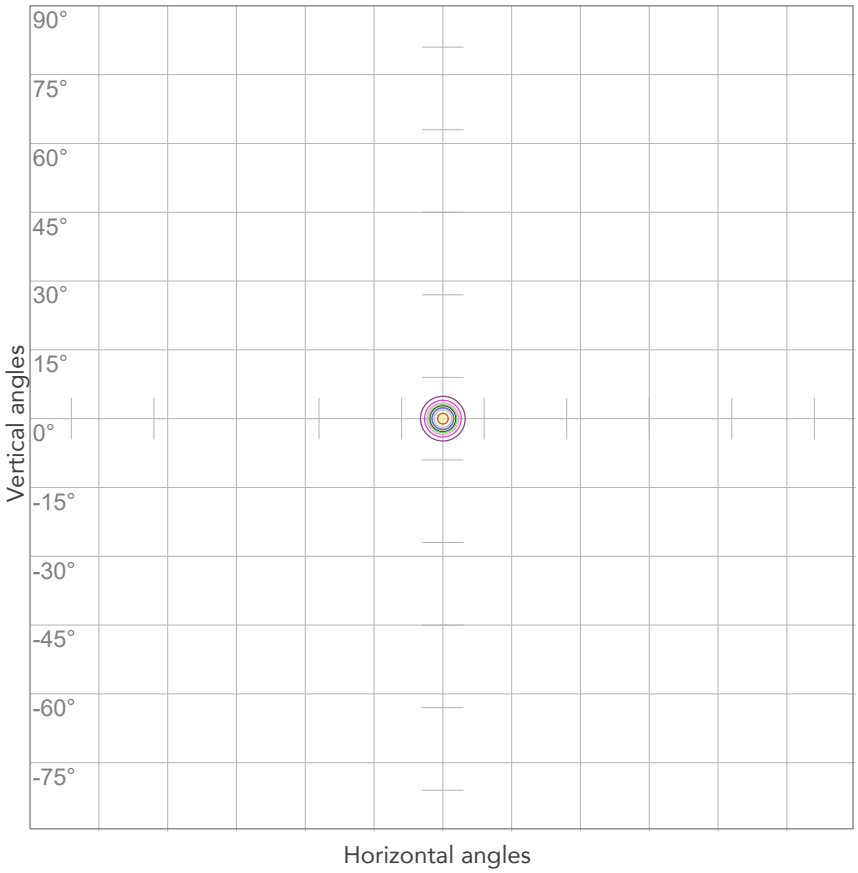
ISO DIAGRAMS

ISO CANDELA DIAGRAM



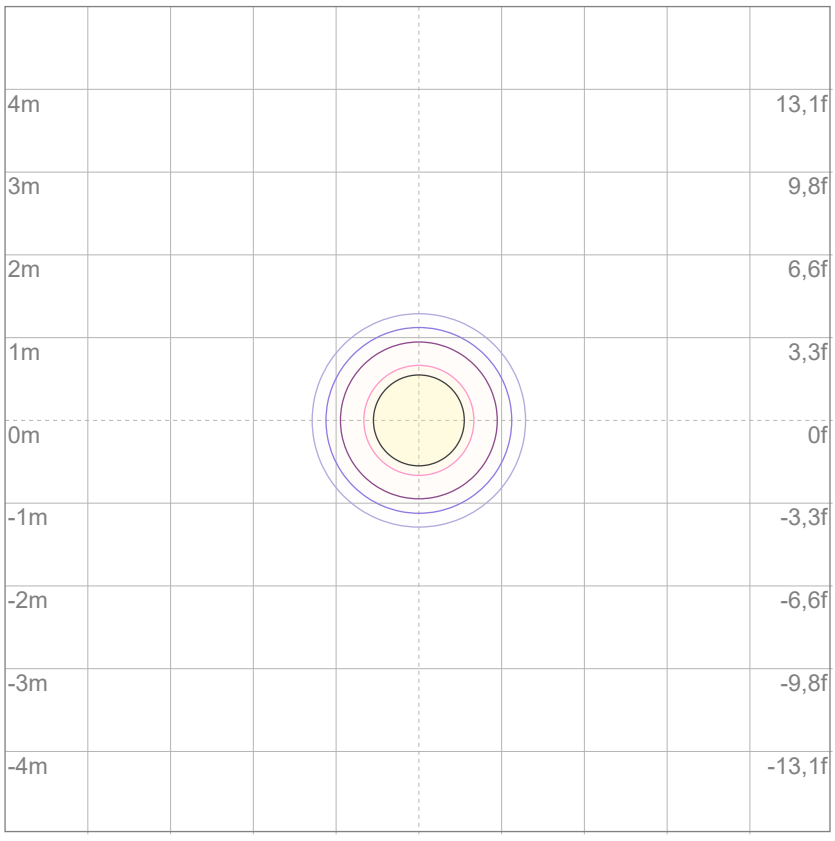
10%	2043 cd
20%	4086 cd
30%	6129 cd
40%	8172 cd
50%	10215 cd
60%	12258 cd
70%	14301 cd
80%	16344 cd

Conditions:

Number of c-planes: 2

Candela at center: 20430 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	6,13 lx
5%	10,2 lx
10%	20,4 lx
30%	61,3 lx
50%	102 lx

Conditions:

Number of c-planes: 2

Lux at center: 204 lx

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

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Total lumen output:

585 lm

Peak candela output:

32475 cd

Light quality:

CRI: 72,8

Color temperature:

2827 K

PRODUCT NAME:

ECLPARDOTFC

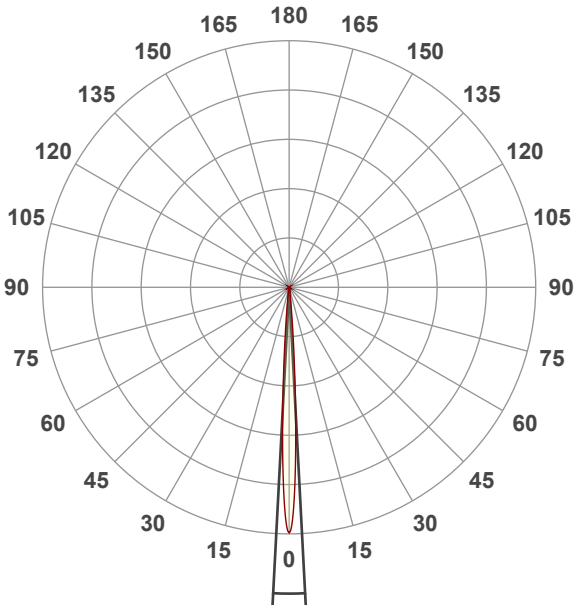
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
2800K - HB

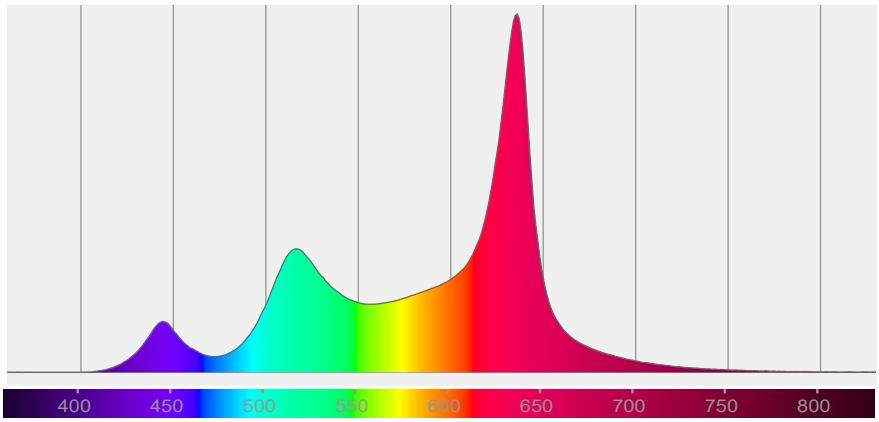
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:51:43



Beam angle 50%: 6°
Field angle 10%: 11,4°
Cut off angle 2.5%: 16,2°

Spectra



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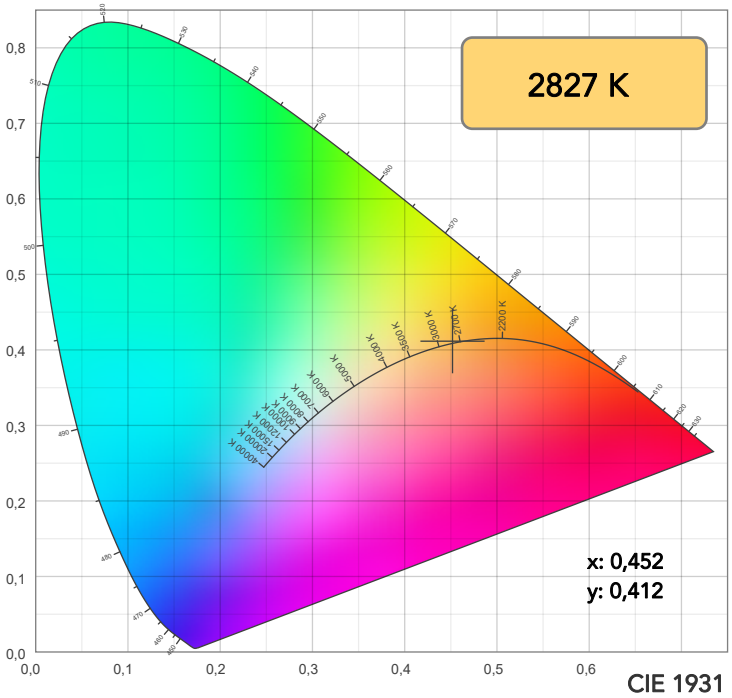
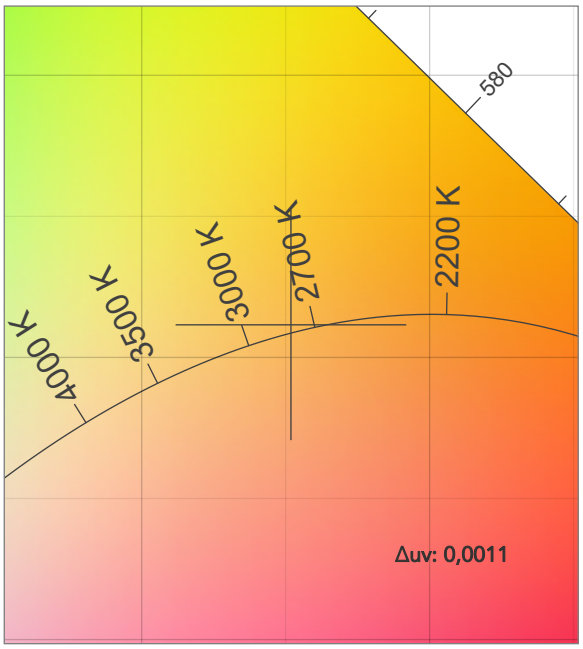
COLOR DETAILS

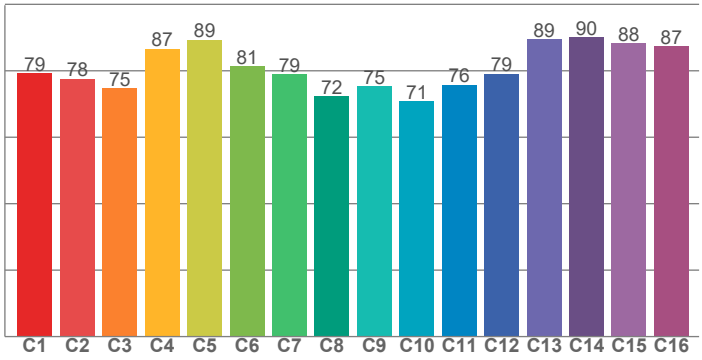


CIE 1931

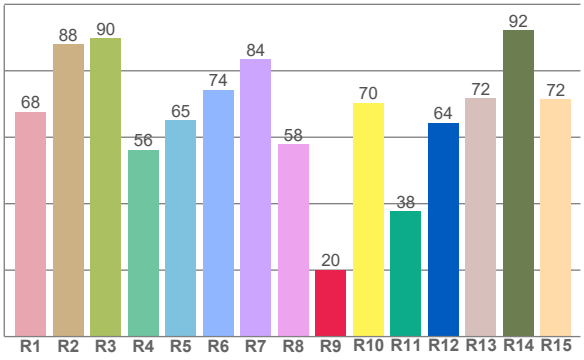


CIE 1931 ZOOM

TM30: 80,9



CRI: 72,8 (R1-R8)



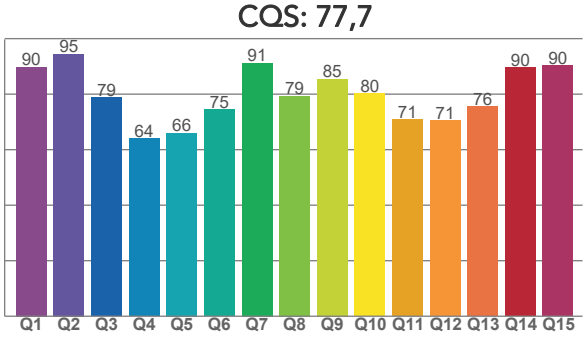
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
67,7	88,0	89,8	56,2	65,0	74,3	83,6	58,0	20,1	70,4	37,6	64,4	71,9	92,3	71,6

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
79,3	77,6	74,7	86,6	89,4	81,4	78,9	72,3	75,4	70,9	75,7	79,1	89,4	90,2	88,3	87,4

CQS: 77,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,7	94,5	78,8	64,0	66,0	74,5	91,2	79,4	85,4	80,3	70,9	70,5	75,5	89,5	90,3

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2827 K	72,8	20,1	80,9	109,7	77,7	46	0,452	0,412	0,0011

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TM30 DETAILS

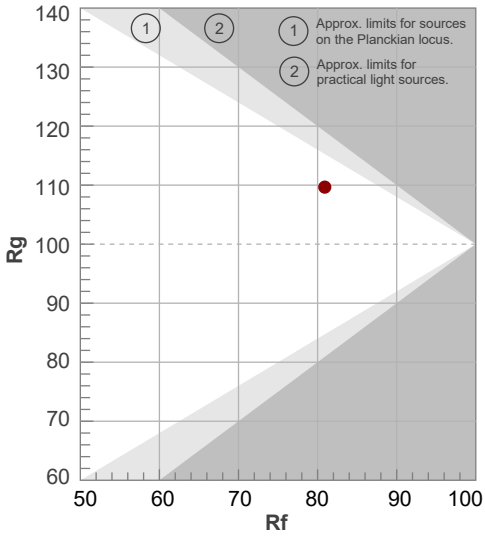
Rf 80,9

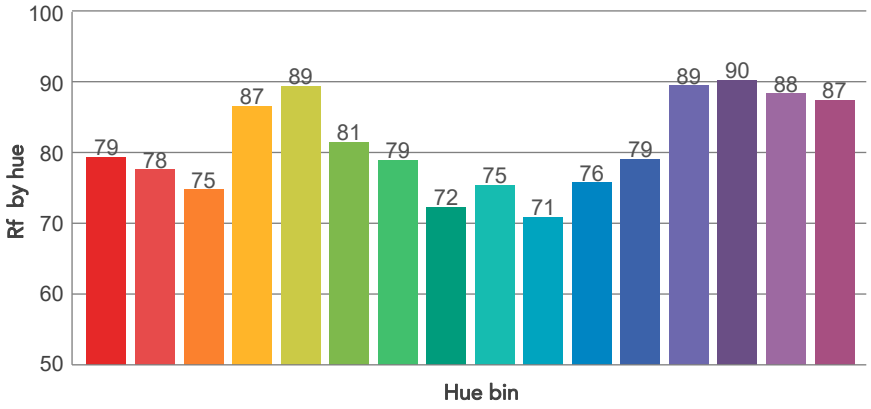
Fidelity index Rf

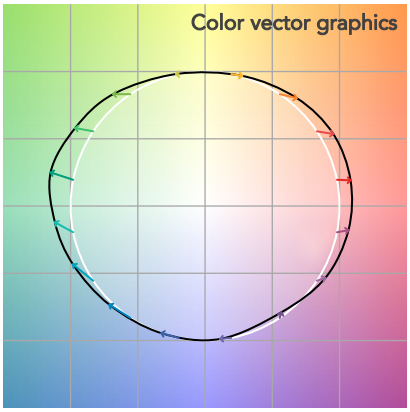
Rg 109,7

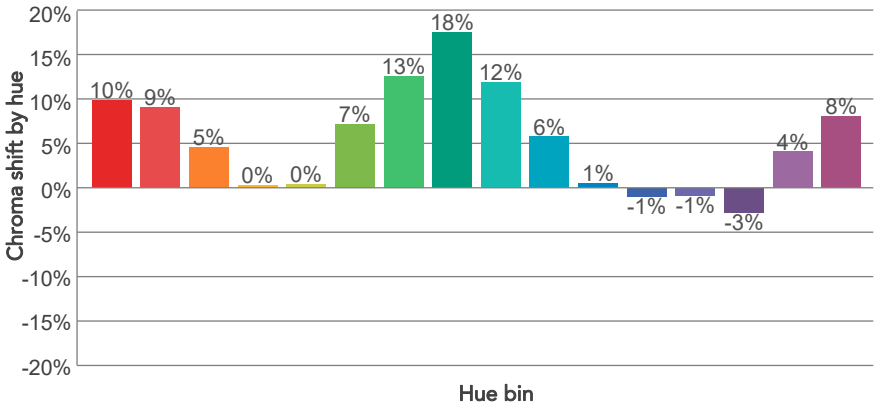
Gammut index

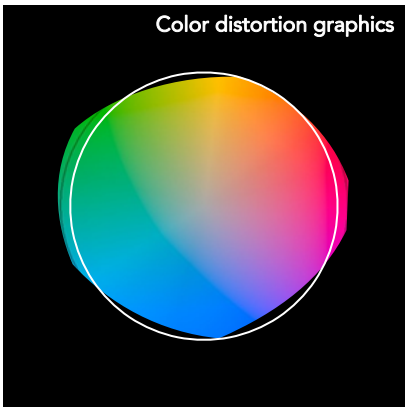
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	79	10%	-2%
2	78	9%	-8%
3	75	5%	-12%
4	87	0%	-8%
5	89	0%	2%
6	81	7%	11%
7	79	13%	5%
8	72	18%	-2%
9	75	12%	-10%
10	71	6%	-18%
11	76	1%	-18%
12	79	-1%	-13%
13	89	-1%	-8%
14	90	-3%	3%
15	88	4%	5%
16	87	8%	3%

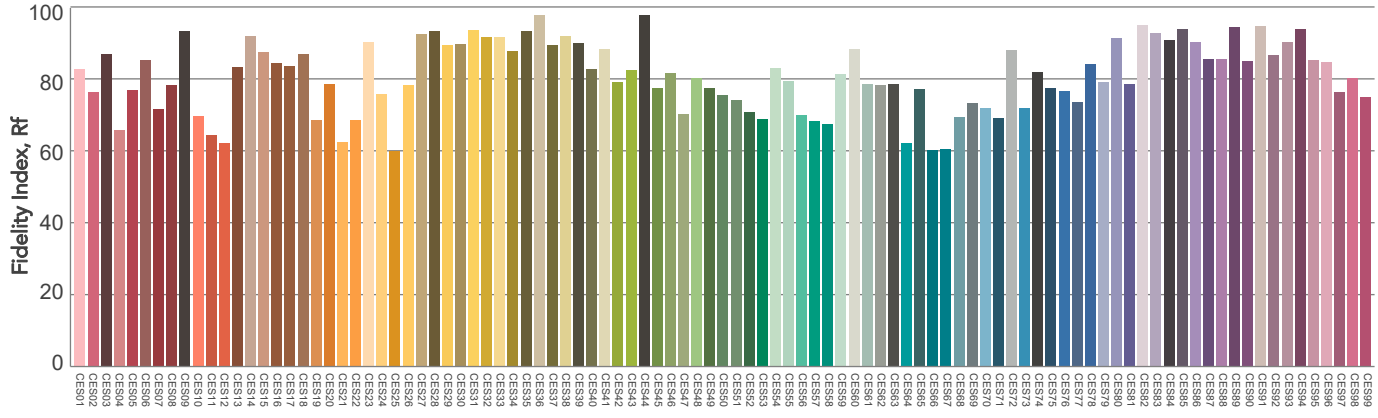












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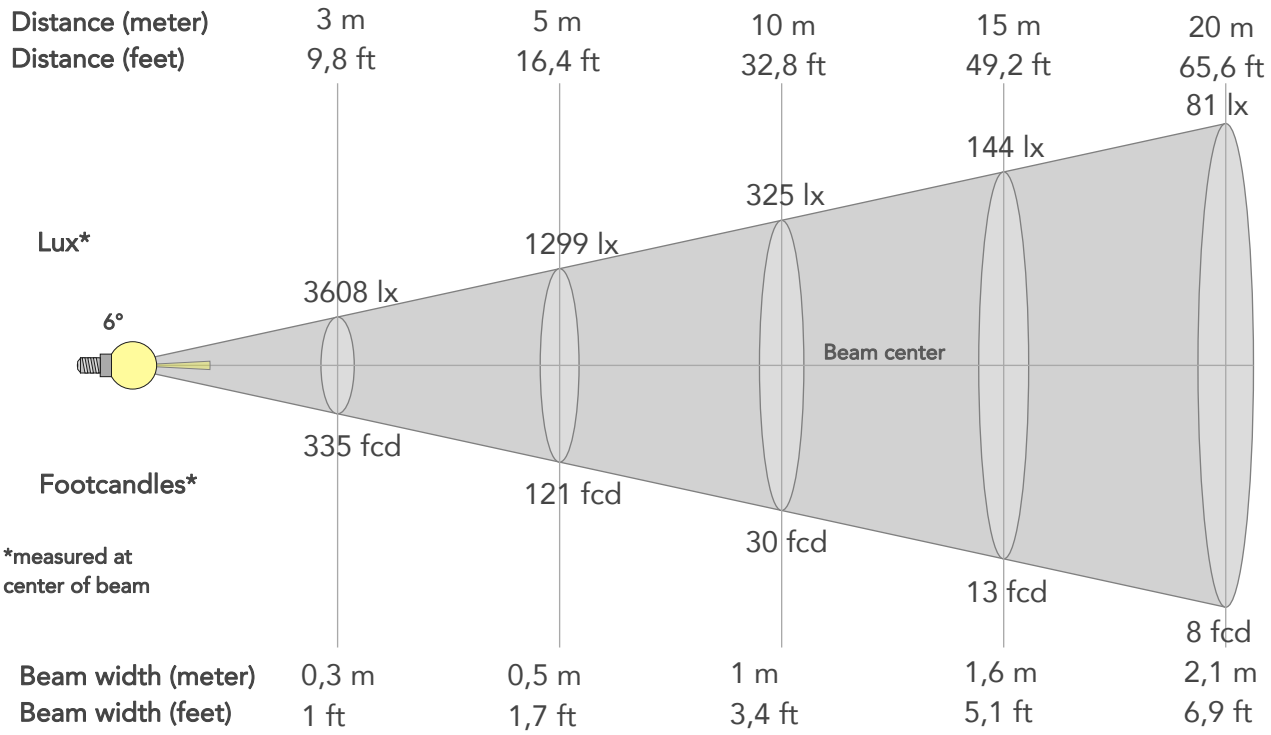
BEAM DETAILS

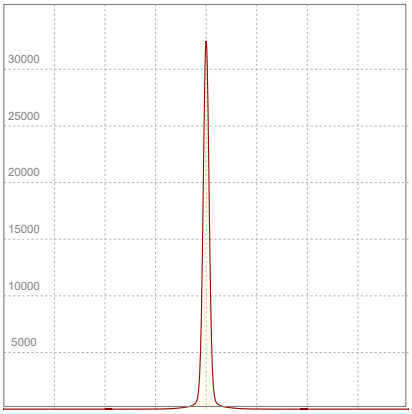
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,2°	99,9%	98,6%



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	32475lx	8119lx	3608lx	2030lx	1299lx	577lx	325lx	144lx	81lx	52lx	36lx	20lx	13lx
Footcand.	3017fcd	754fcd	335fcd	189fcd	121fcd	54fcd	30fcd	13fcd	8fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,2m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,1ft	6,9ft	8,6ft	10,3ft	13,7ft	17,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,168A	18,5W	0,48	32lm/W

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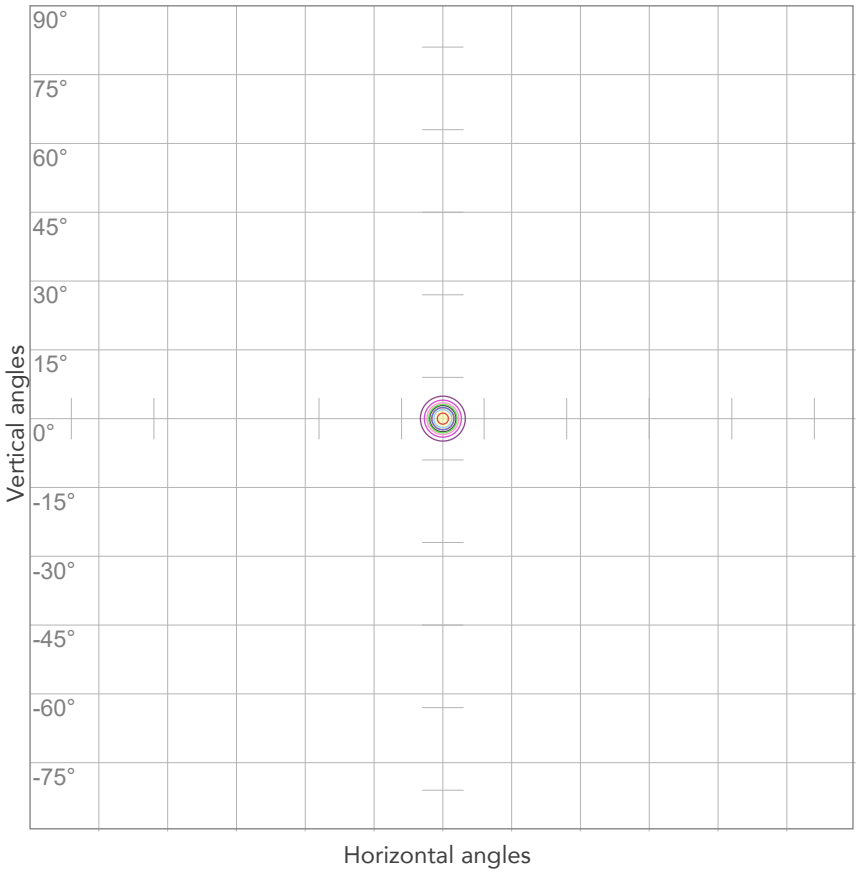
ISO DIAGRAMS

ISO CANDELA DIAGRAM



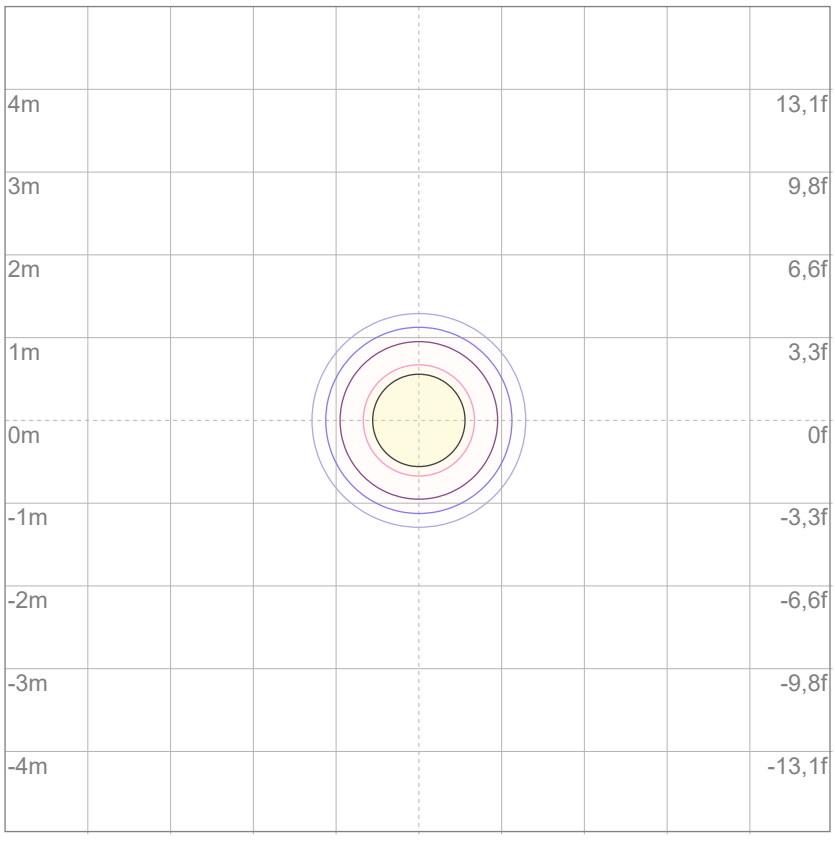
10%	3247 cd
20%	6495 cd
30%	9742 cd
40%	12990 cd
50%	16237 cd
60%	19485 cd
70%	22732 cd
80%	25980 cd

Conditions:

Number of c-planes: 2

Candela at center: 32475 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,74 lx
5%	16,2 lx
10%	32,5 lx
30%	97,4 lx
50%	162 lx

Conditions:

Number of c-planes: 2

Lux at center: 325 lx

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

Total lumen output:

537 lm

Peak candela output:

29255 cd

Light quality:

CRI: 82,9

Color temperature:

3233 K

PRODUCT NAME:

ECLPARDOTFC

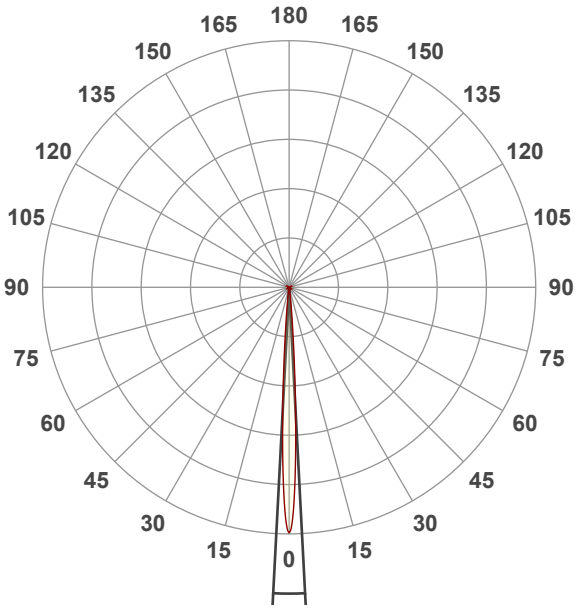
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
3200K - HB

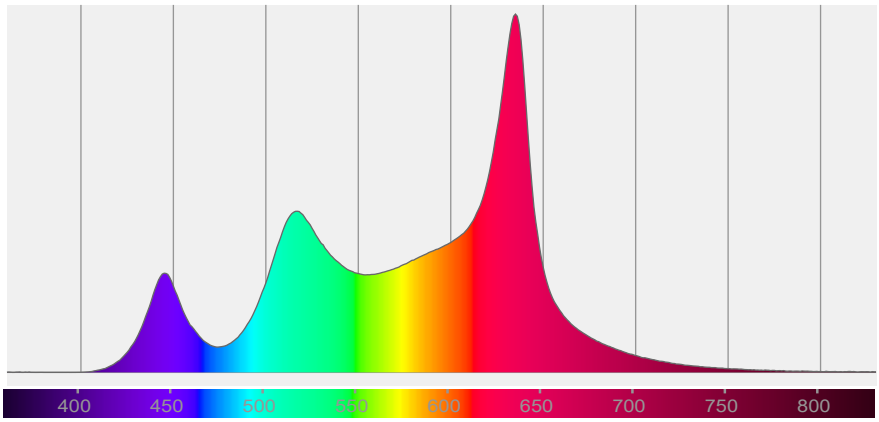
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:55:17



Beam angle 50%: 6°
Field angle 10%: 11,4°
Cut off angle 2.5%: 16,2°

Spectra



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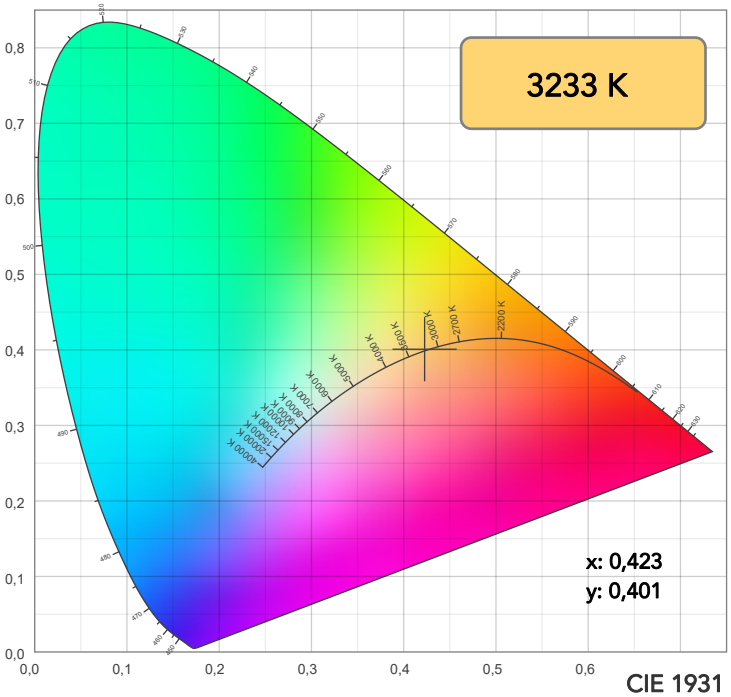
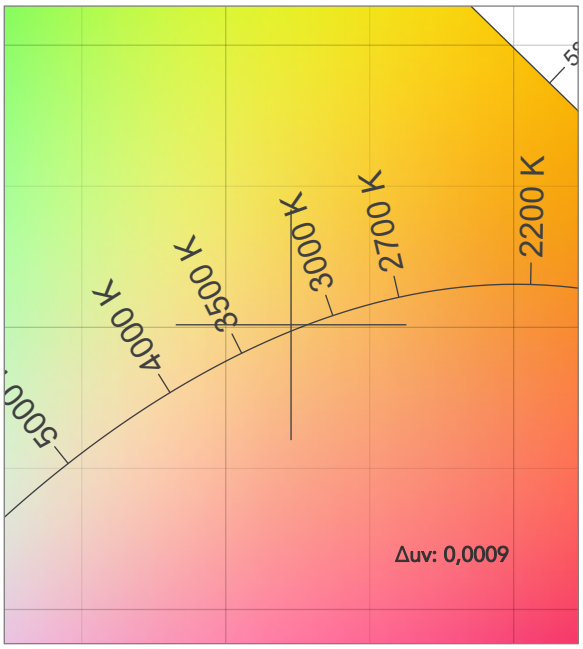
COLOR DETAILS

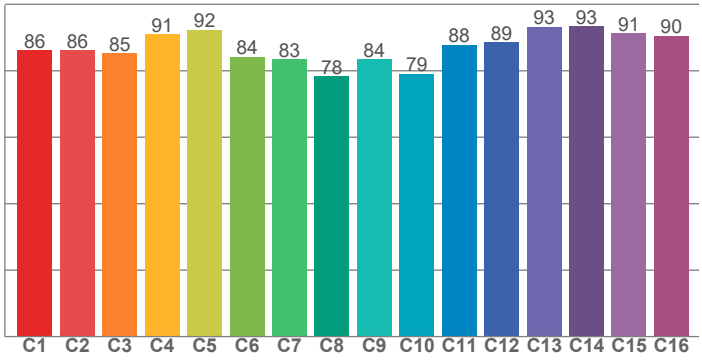


CIE 1931

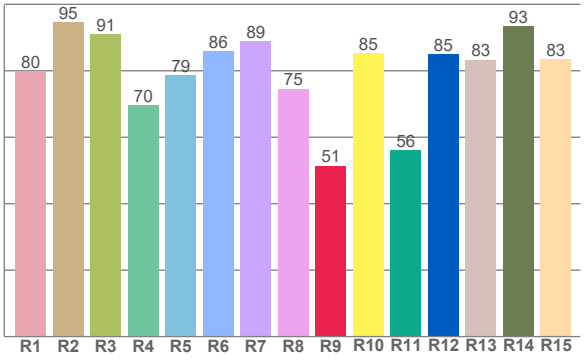


CIE 1931 ZOOM

TM30: 87,3



CRI: 82,9 (R1-R8)



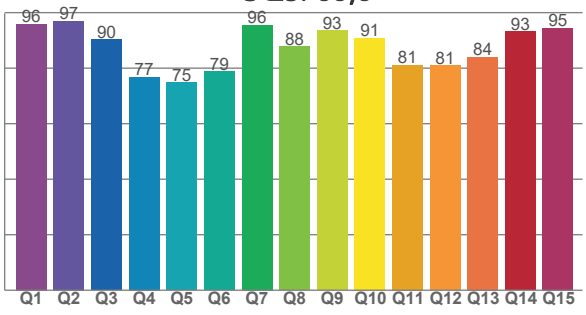
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
79,9	94,6	91,1	69,7	78,6	85,8	88,9	74,6	51,4	85,2	56,1	84,9	83,3	93,5	83,4

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
86,2	86,2	85,2	91,0	92,3	84,2	83,5	78,3	83,5	79,1	87,8	88,6	93,2	93,5	91,3	90,5

CQS: 85,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,8	96,9	90,2	76,8	74,9	78,7	95,5	87,8	93,5	90,8	81,1	80,9	84,1	93,3	94,5

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3233 K	82,9	51,4	87,3	109,1	85,5	62	0,423	0,401	0,0009

TM30 DETAILS

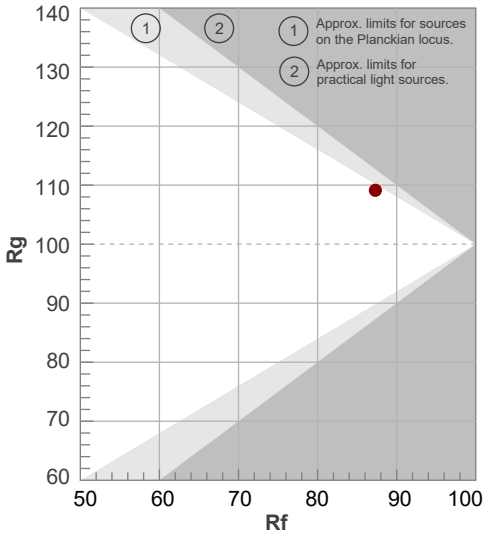
Rf 87,3

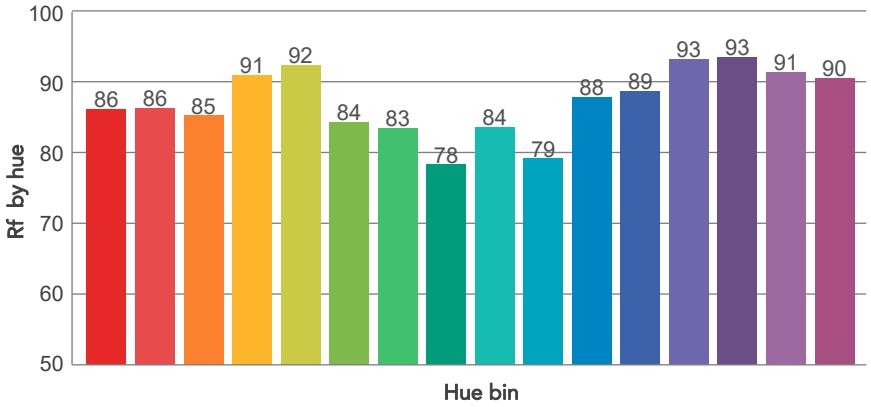
Fidelity index Rf

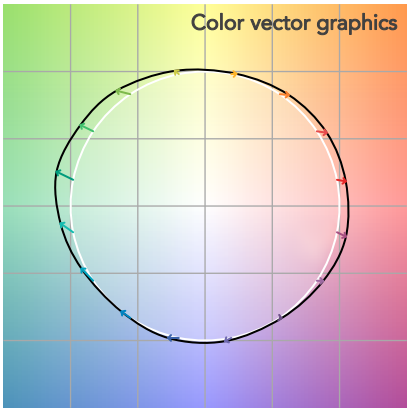
Rg 109,1

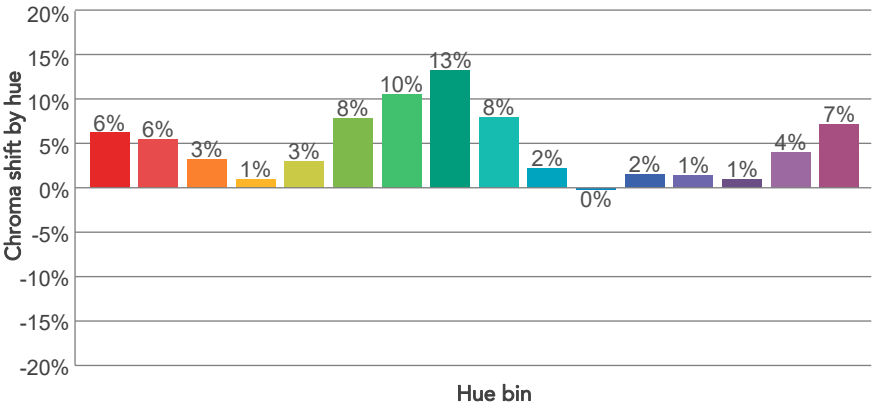
Gammut index

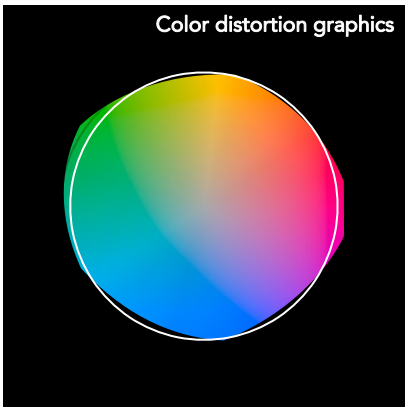
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	86	6%	-2%
2	86	6%	-5%
3	85	3%	-6%
4	91	1%	-4%
5	92	3%	2%
6	84	8%	7%
7	83	10%	1%
8	78	13%	-4%
9	84	8%	-8%
10	79	2%	-12%
11	88	0%	-8%
12	89	2%	-8%
13	93	1%	-5%
14	93	1%	1%
15	91	4%	2%
16	90	7%	-2%

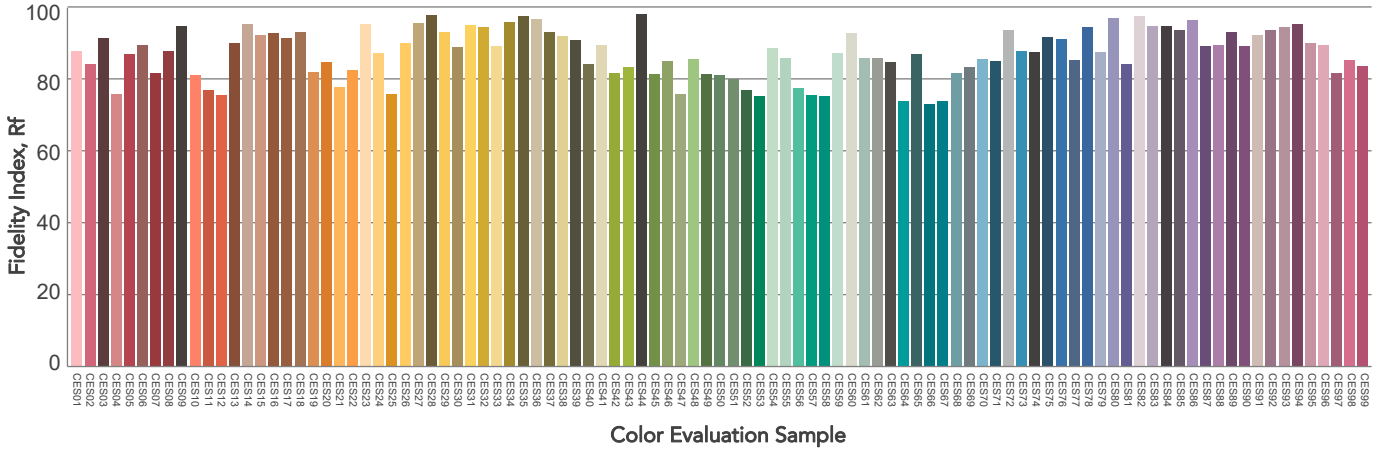












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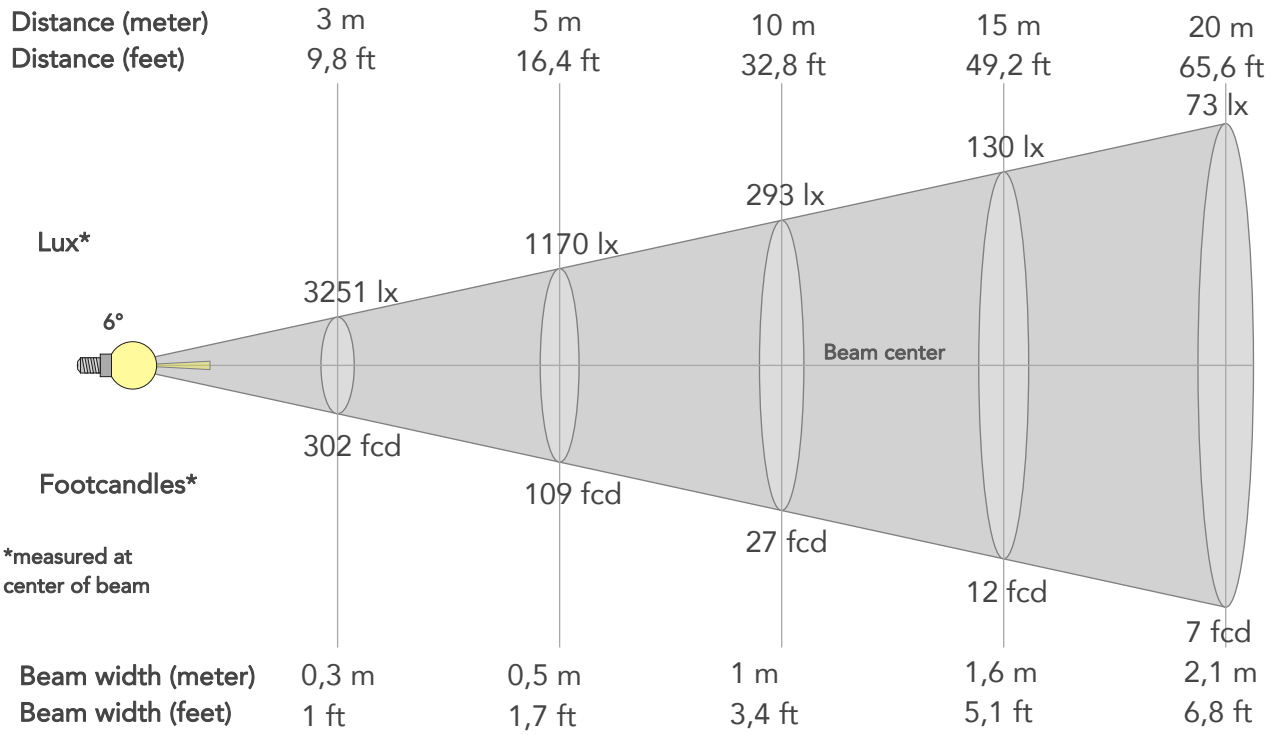
BEAM DETAILS

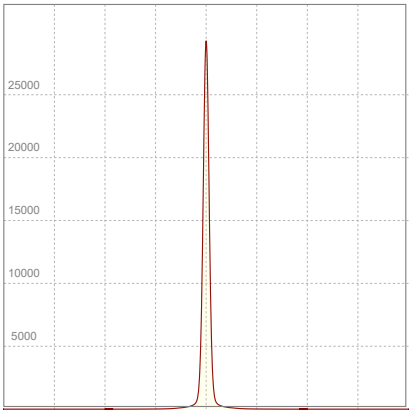
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,2°	99,2%	97,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	29255lx	7314lx	3251lx	1828lx	1170lx	520lx	293lx	130lx	73lx	47lx	33lx	18lx	12lx
Footcand.	2718fcd	679fcd	302fcd	170fcd	109fcd	48fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,2m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,1ft	6,8ft	8,5ft	10,3ft	13,7ft	17,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,157A	17,0W	0,47	32lm/W

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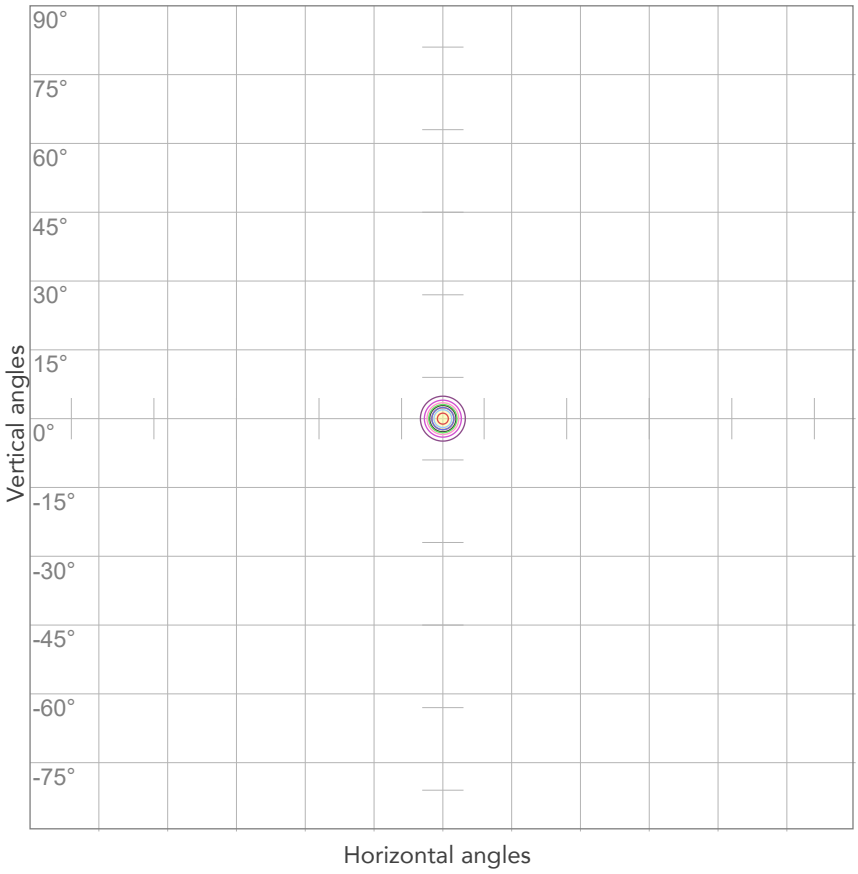
ISO DIAGRAMS

ISO CANDELA DIAGRAM



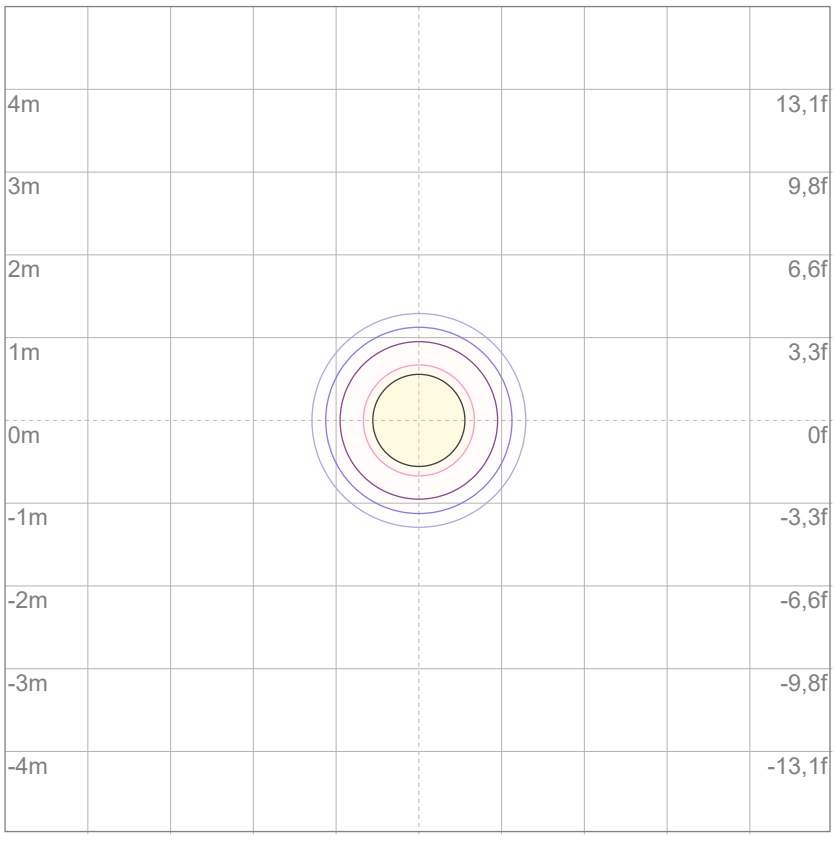
10%	2925 cd
20%	5851 cd
30%	8776 cd
40%	11702 cd
50%	14627 cd
60%	17553 cd
70%	20478 cd
80%	23404 cd

Conditions:

Number of c-planes: 2

Candela at center: 29255 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	8,78 lx
5%	14,6 lx
10%	29,3 lx
30%	87,8 lx
50%	146 lx

Conditions:

Number of c-planes: 2

Lux at center: 293 lx

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

Total lumen output:

561 lm

Peak candela output:

30339 cd

Light quality:

CRI: 84,4

Color temperature:

4054 K

PRODUCT NAME:

ECLPARDOTFC

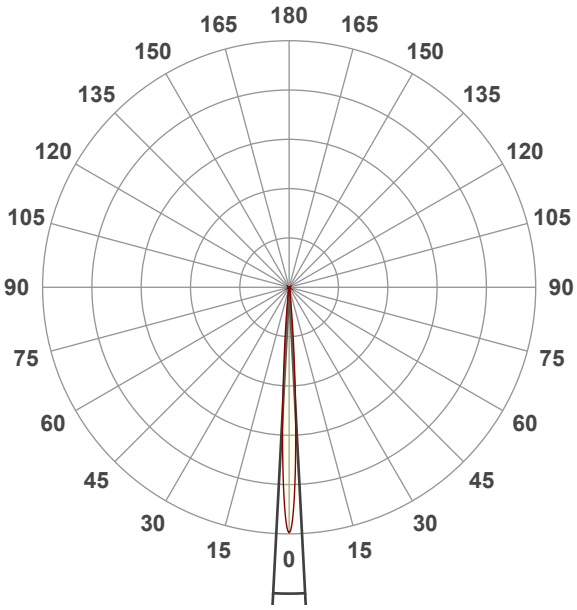
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
4000K - HB

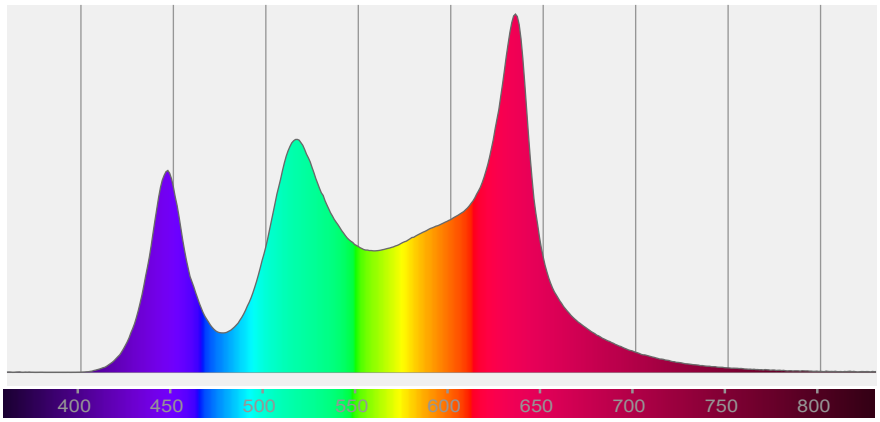
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 11:58:57



Beam angle 50%: 6°
Field angle 10%: 11,4°
Cut off angle 2.5%: 16,2°

Spectra



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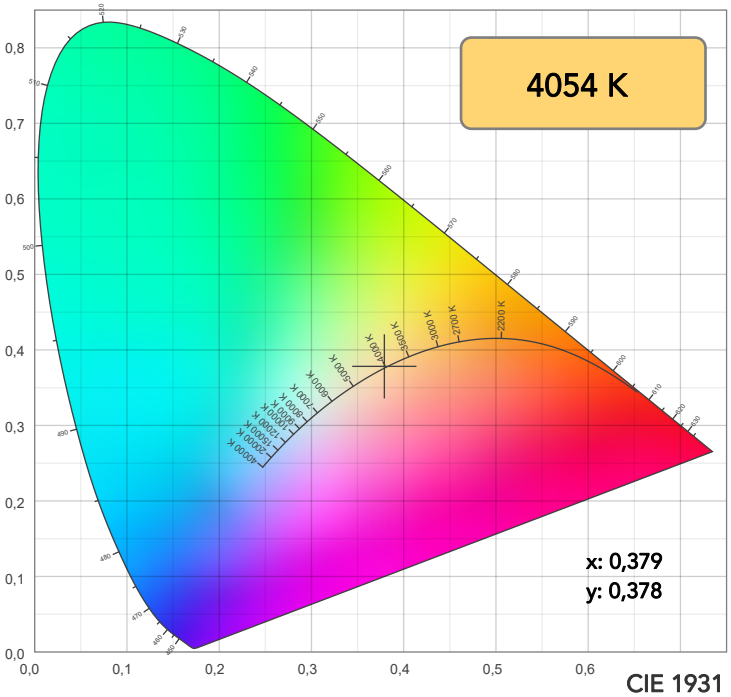
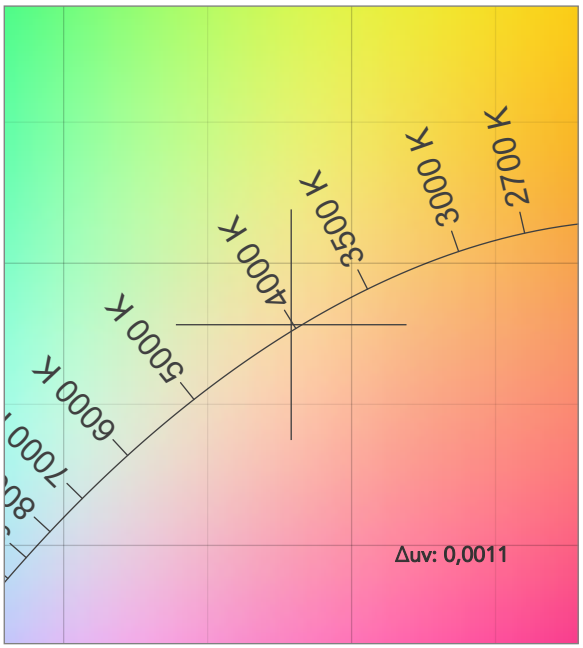
COLOR DETAILS

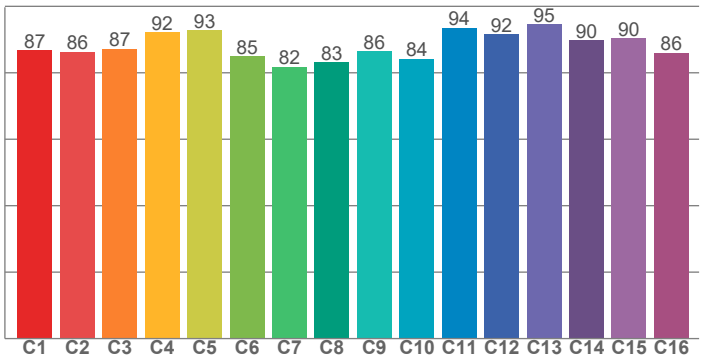


CIE 1931

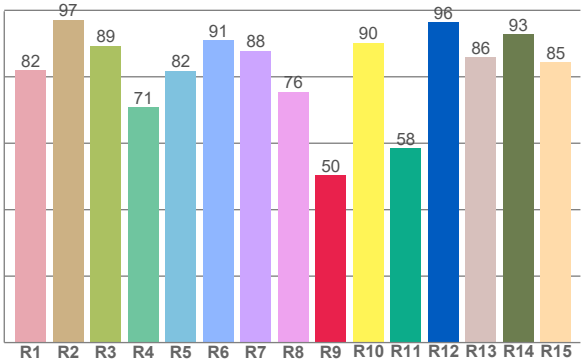


CIE 1931 ZOOM

TM30: 88,5



CRI: 84,4 (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
81,9	97,2	89,4	70,9	81,8	90,9	87,8	75,5	50,3	90,3	58,4	96,4	85,8	92,8	84,5

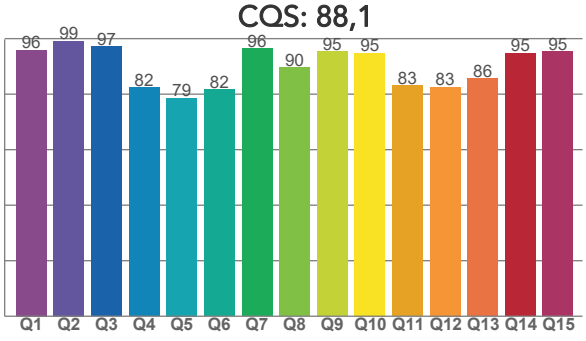
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86,7	86,3	87,2	92,2	92,7	84,9	81,8	83,1	86,4	84,3	93,5	91,6	94,5	89,8	90,3	86,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,9	99,2	97,2	82,5	78,6	81,7	96,5	89,5	95,4	94,9	83,1	82,6	85,5	94,7	95,4

CQS: 88,1



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4054 K	84,4	50,3	88,5	109,8	88,1	64	0,379	0,378	0,0011

TM30 DETAILS

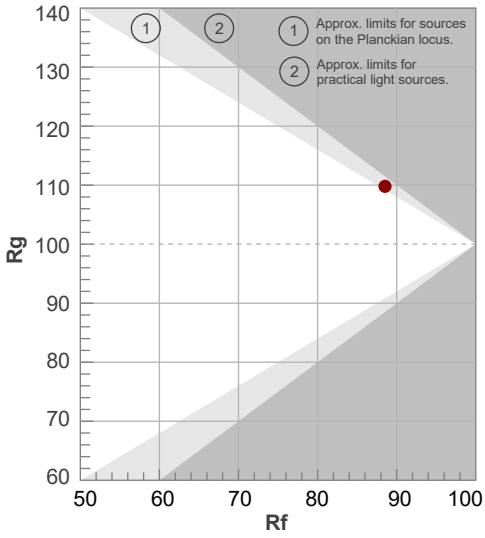
Rf 88,5

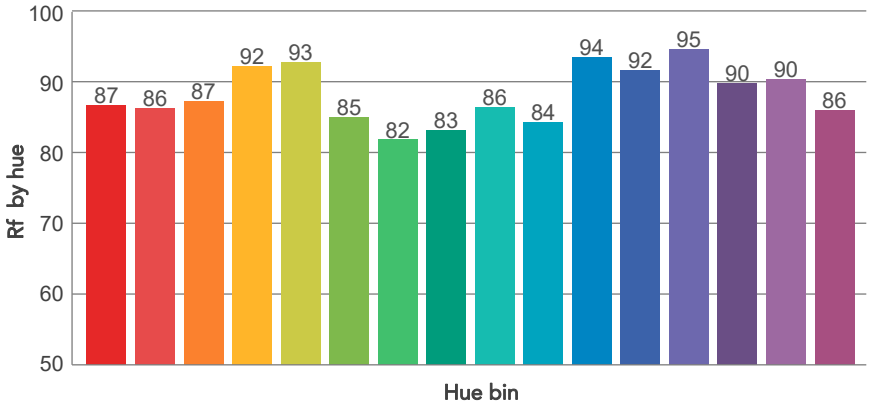
Fidelity index Rf

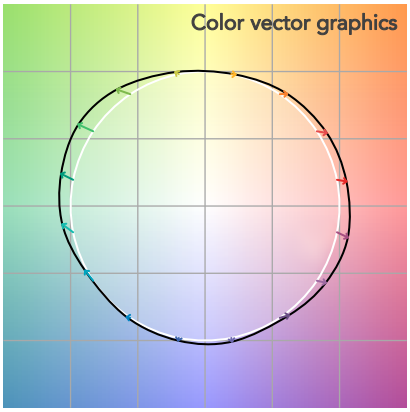
Rg 109,8

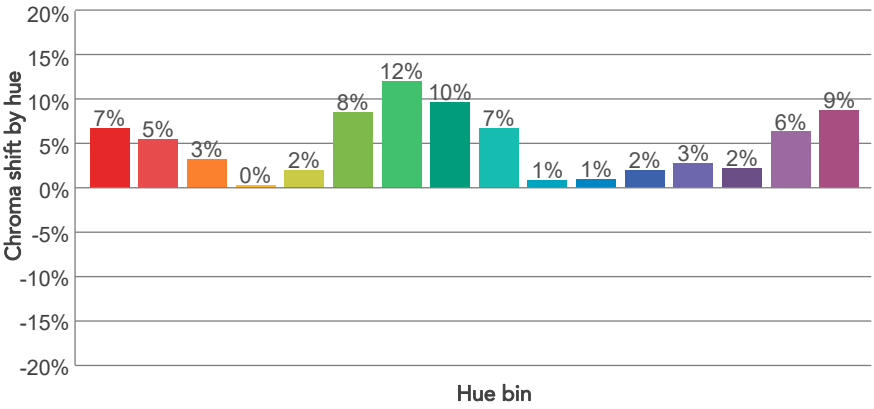
Gammut index

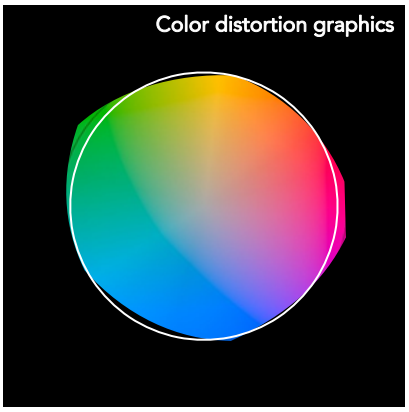
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	87	7%	-3%
2	86	5%	-5%
3	87	3%	-4%
4	92	0%	-3%
5	93	2%	2%
6	85	8%	6%
7	82	12%	2%
8	83	10%	-3%
9	86	7%	-7%
10	84	1%	-10%
11	94	1%	-3%
12	92	2%	0%
13	95	3%	0%
14	90	2%	7%
15	90	6%	3%
16	86	9%	-2%

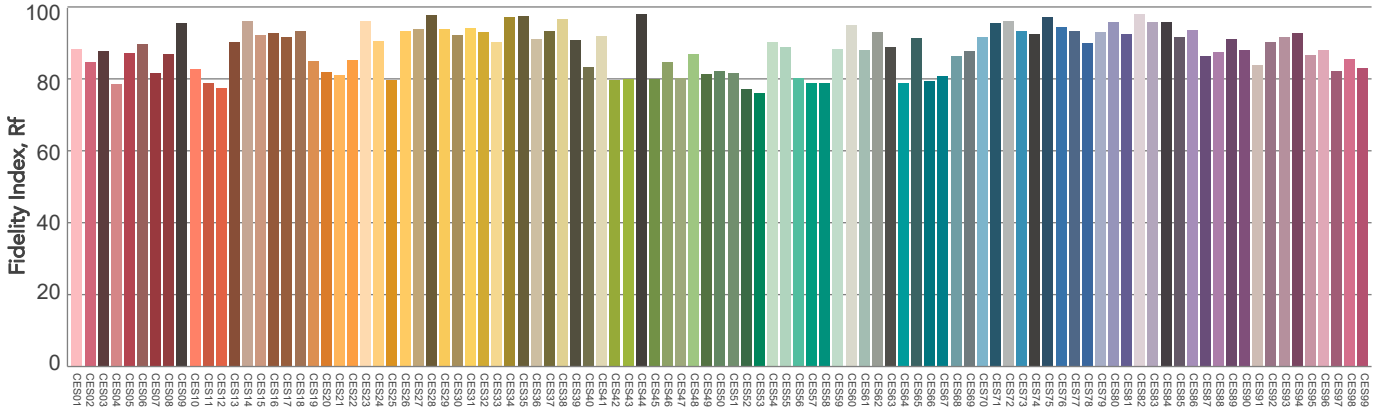












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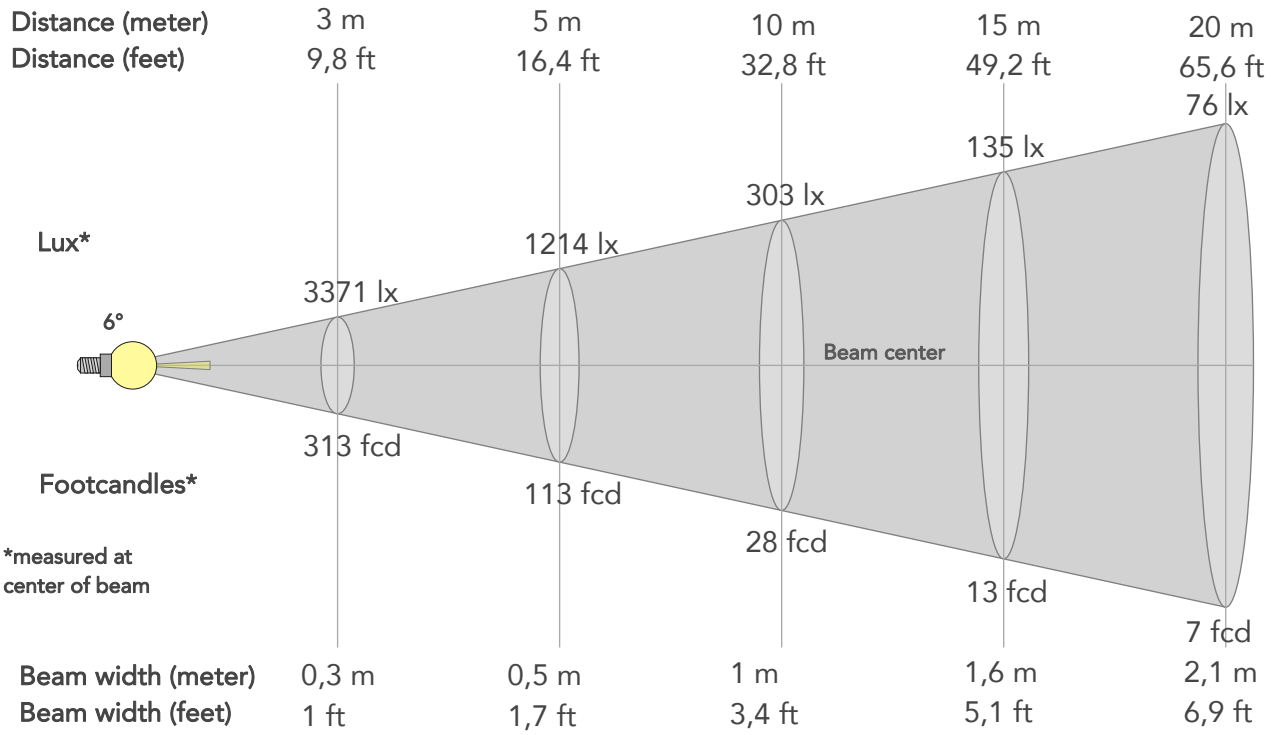
BEAM DETAILS

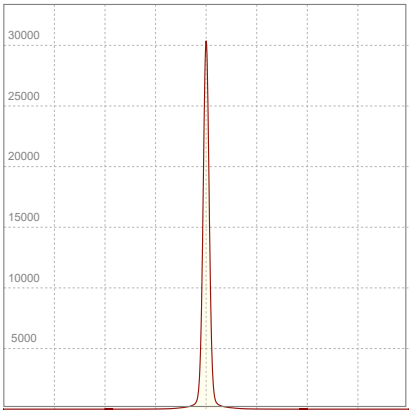
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,2°	99,1%	97,3%



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	30339lx	7585lx	3371lx	1896lx	1214lx	539lx	303lx	135lx	76lx	49lx	34lx	19lx	12lx
Footcand.	2819fcd	705fcd	313fcd	176fcd	113fcd	50fcd	28fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,2m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,1ft	6,9ft	8,6ft	10,3ft	13,7ft	17,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
229V	0,160A	17,7W	0,48	32lm/W

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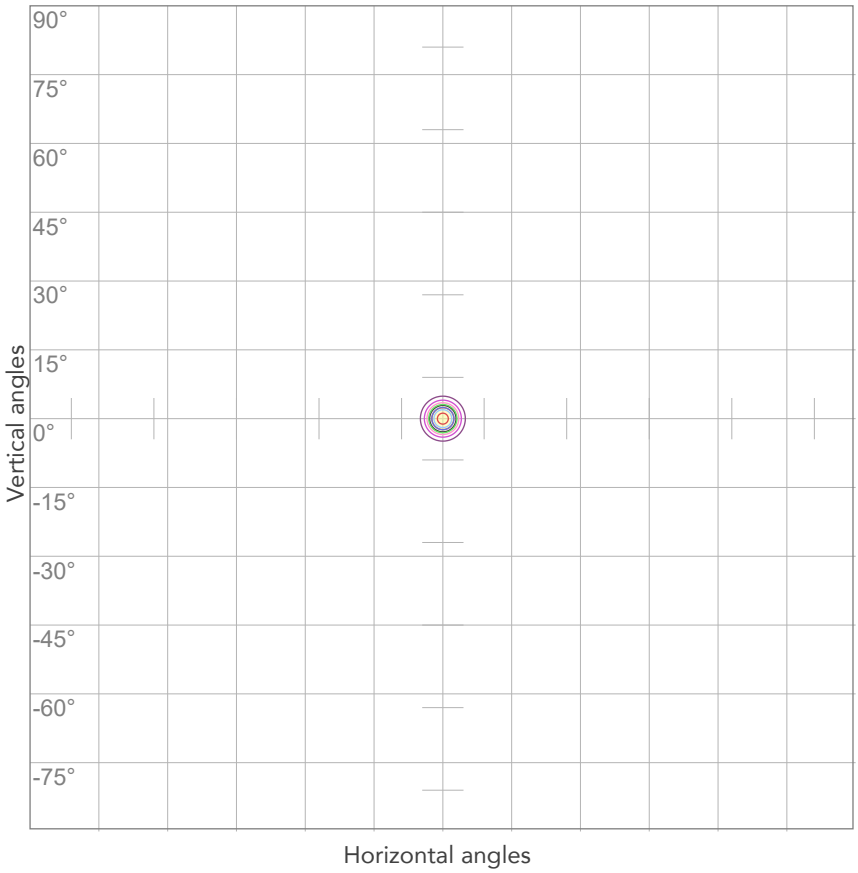
ISO DIAGRAMS

ISO CANDELA DIAGRAM



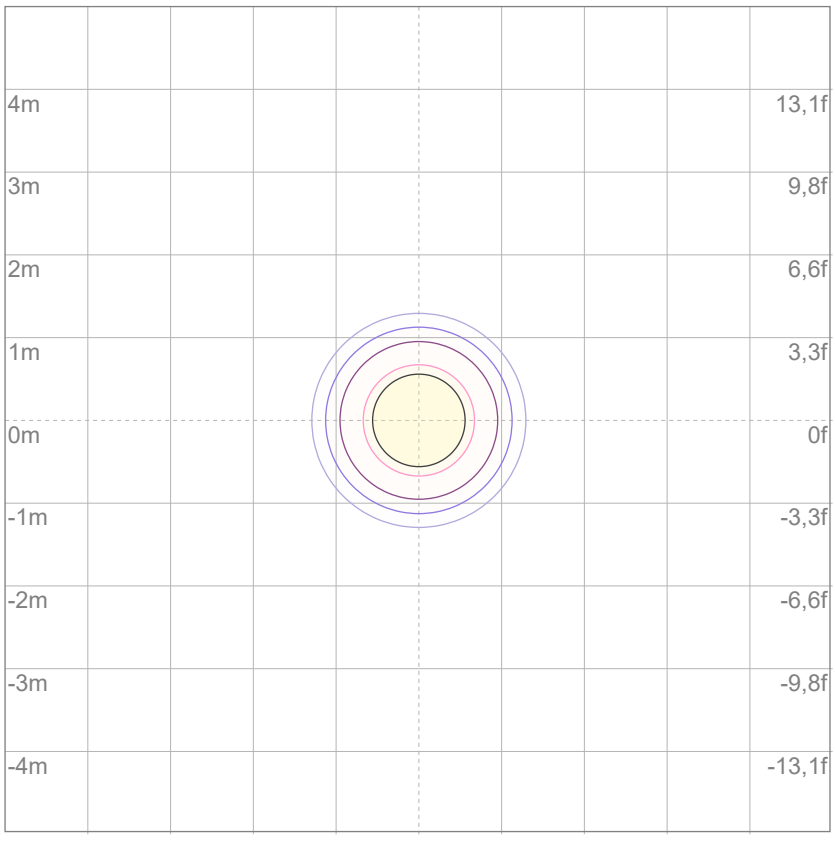
10%	3034 cd
20%	6068 cd
30%	9102 cd
40%	12136 cd
50%	15170 cd
60%	18203 cd
70%	21237 cd
80%	24271 cd

Conditions:

Number of c-planes: 2

Candela at center: 30339 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,10 lx
5%	15,2 lx
10%	30,3 lx
30%	91,0 lx
50%	152 lx

Conditions:

Number of c-planes: 2

Lux at center: 303 lx

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

Total lumen output:

583 lm

Peak candela output:

31294 cd

Light quality:

CRI: 86,5

Color temperature:

5625 K

PRODUCT NAME:

ECLPARDOTFC

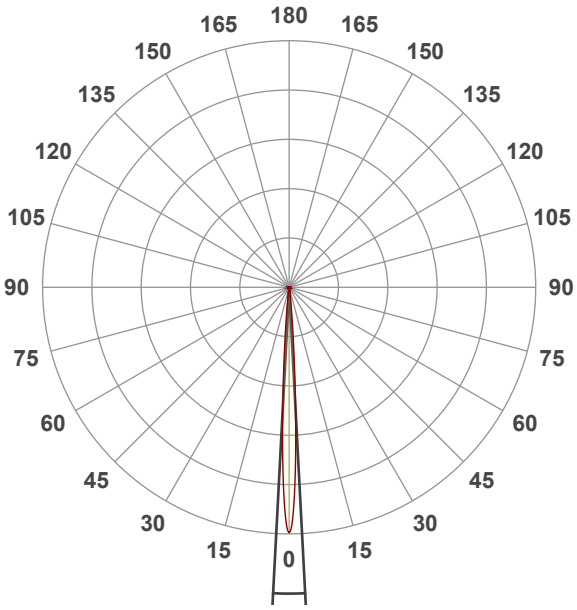
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
5600K - HB

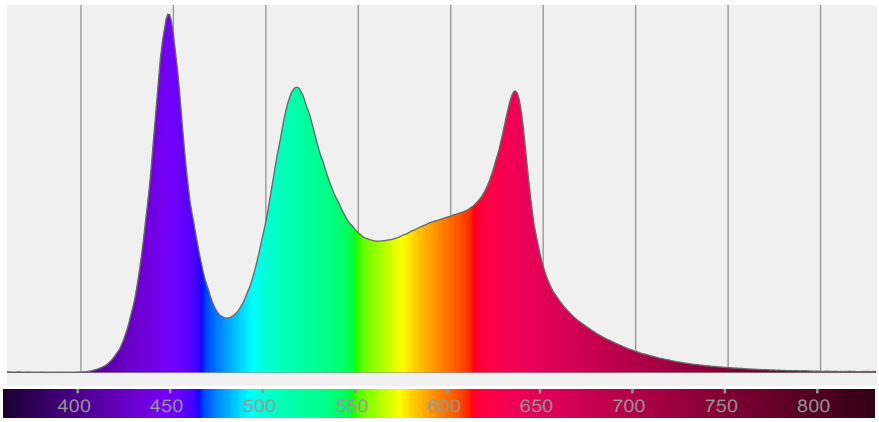
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 12:02:06

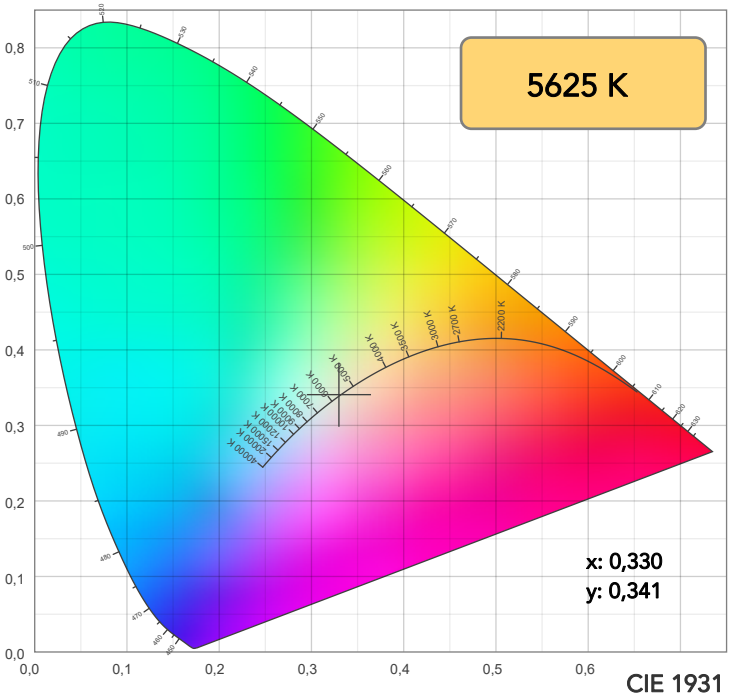


Beam angle 50%: 6°
Field angle 10%: 11,5°
Cut off angle 2.5%: 16,3°

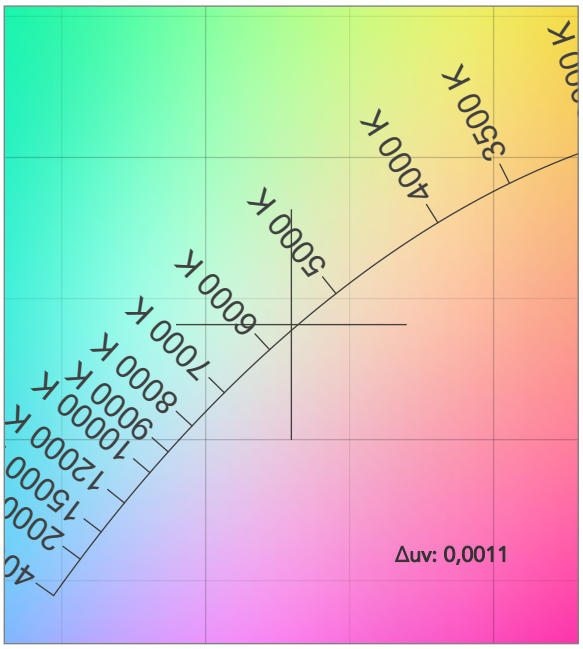
Spectra



COLOR DETAILS

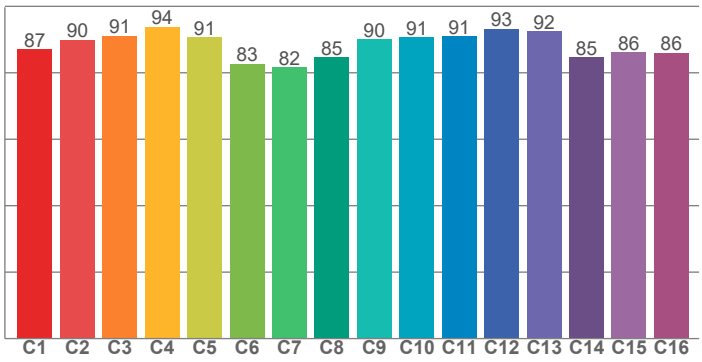


CIE 1931

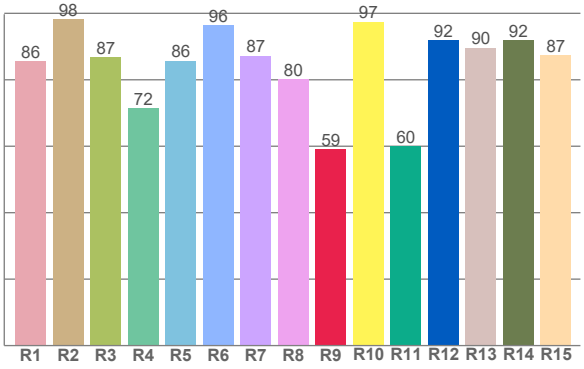


CIE 1931 ZOOM

TM30: 88,7



CRI: 86,5 (R1-R8)



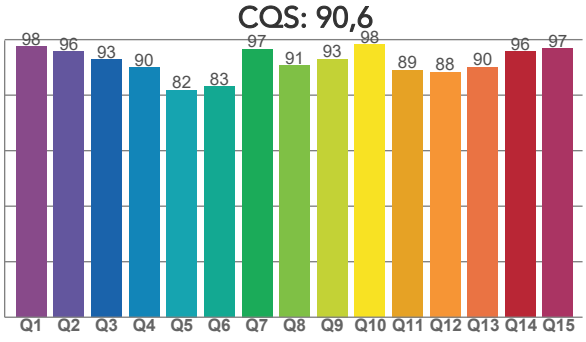
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
85,7	98,2	86,9	71,6	85,8	96,4	87,3	80,1	59,2	97,5	60,1	91,8	89,7	91,9	87,3

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
87,0	89,9	91,2	93,8	90,7	82,7	81,7	84,6	90,0	90,7	91,0	93,3	92,5	84,6	86,2	86,0

CQS: 90,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,6	95,7	92,8	90,0	81,9	83,1	96,6	90,7	93,1	98,3	89,0	88,4	90,1	95,7	96,7

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5625 K	86,5	59,2	88,7	110,8	90,6	71	0,330	0,341	0,0011

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TM30 DETAILS

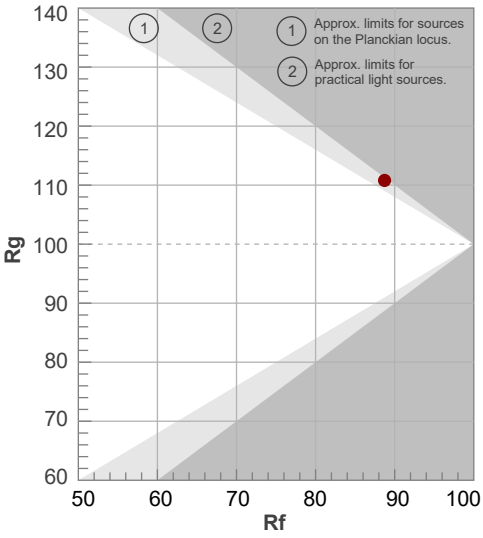
Rf 88,7

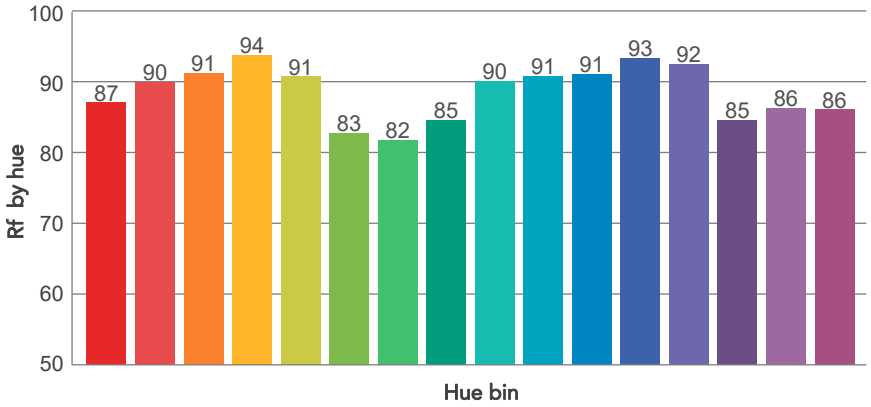
Fidelity index Rf

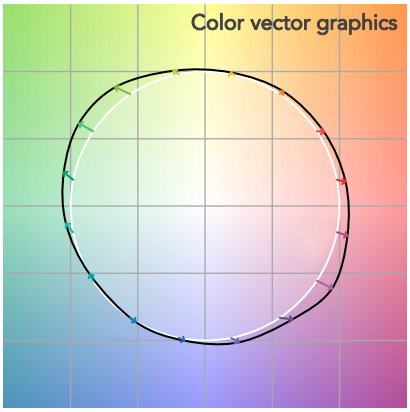
Rg 110,8

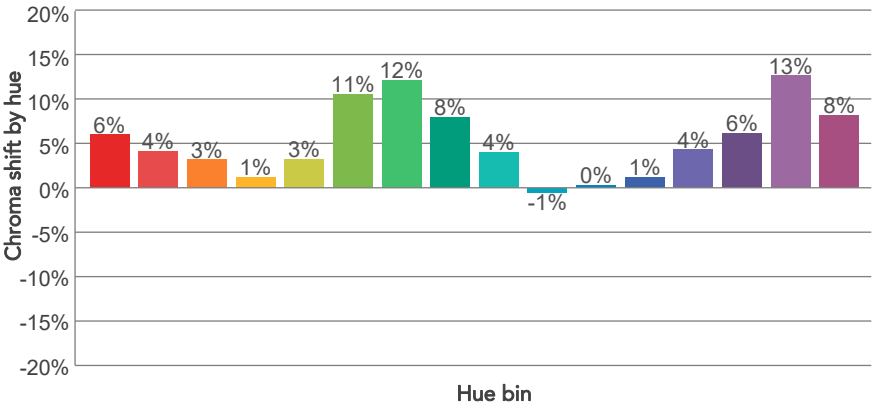
Gammut index

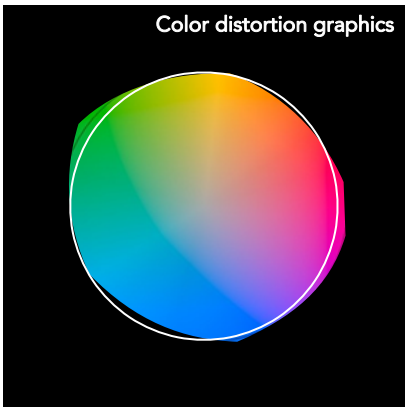
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	87	6%	-3%
2	90	4%	-3%
3	91	3%	-1%
4	94	1%	0%
5	91	3%	3%
6	83	11%	6%
7	82	12%	1%
8	85	8%	-4%
9	90	4%	-7%
10	91	-1%	-5%
11	91	0%	5%
12	93	1%	5%
13	92	4%	5%
14	85	6%	7%
15	86	13%	2%
16	86	8%	-1%

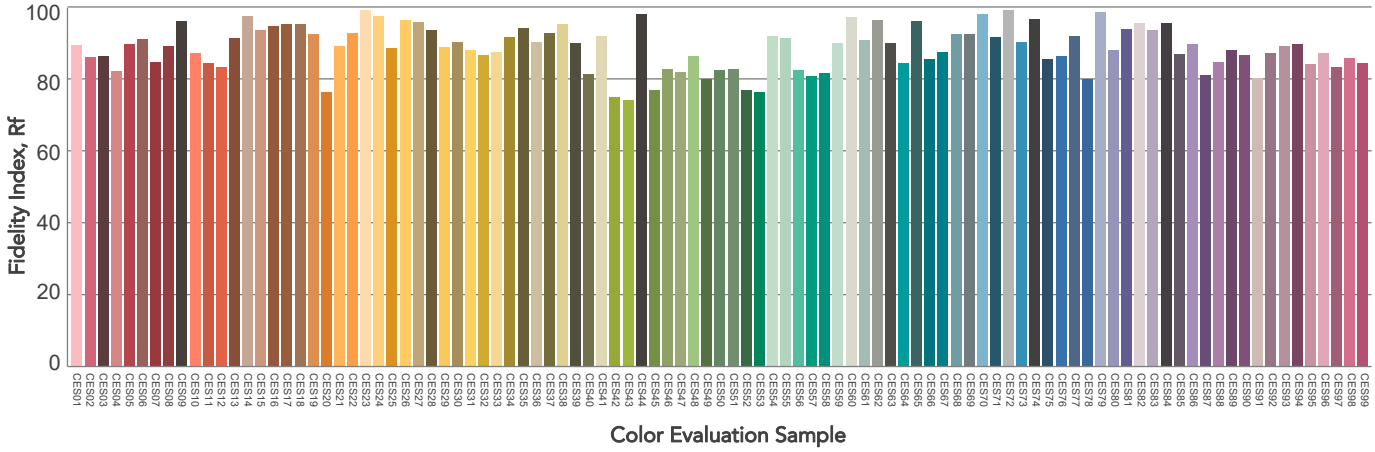












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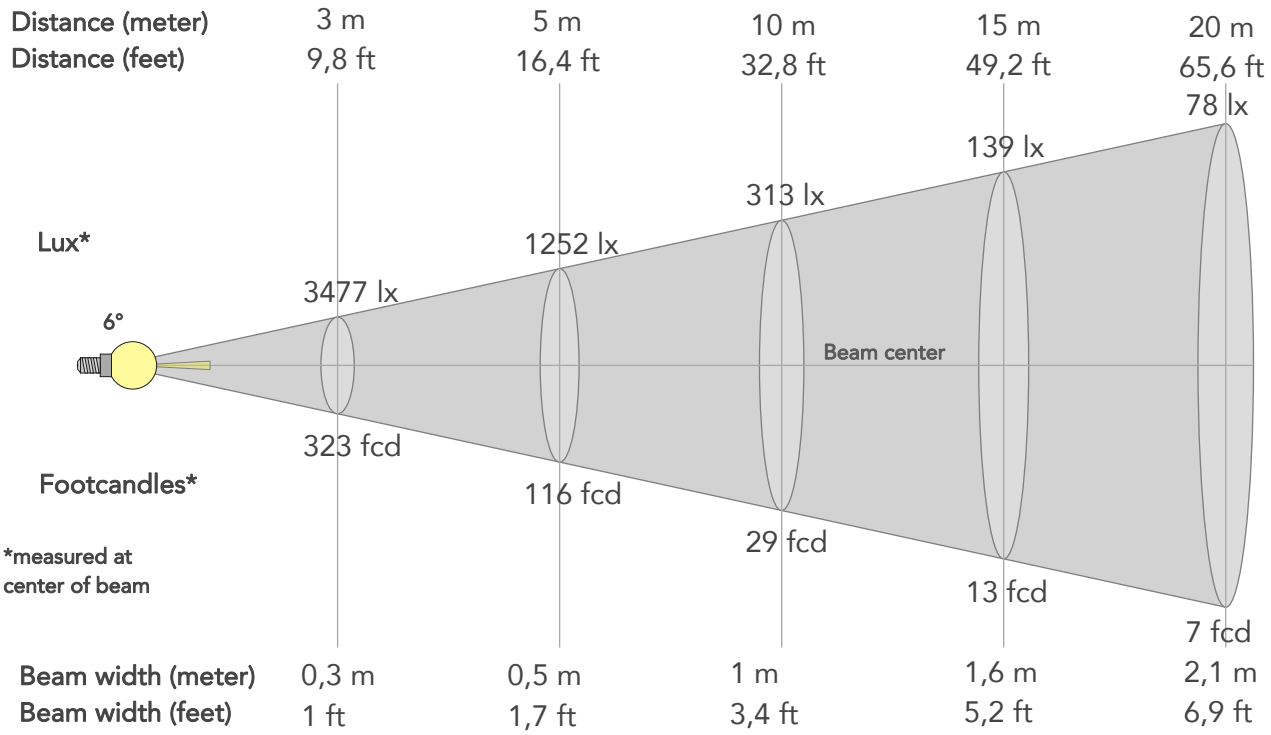
BEAM DETAILS

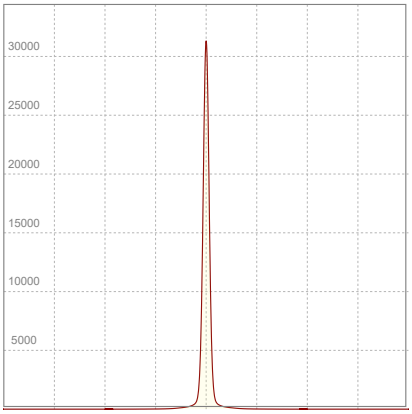
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,5°	16,3°	99,1%	97,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	31294lx	7824lx	3477lx	1956lx	1252lx	556lx	313lx	139lx	78lx	50lx	35lx	20lx	13lx
Footcand.	2907fcd	727fcd	323fcd	182fcd	116fcd	52fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,2m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,2ft	6,9ft	8,6ft	10,3ft	13,7ft	17,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	0,172A	18,7W	0,48	31lm/W

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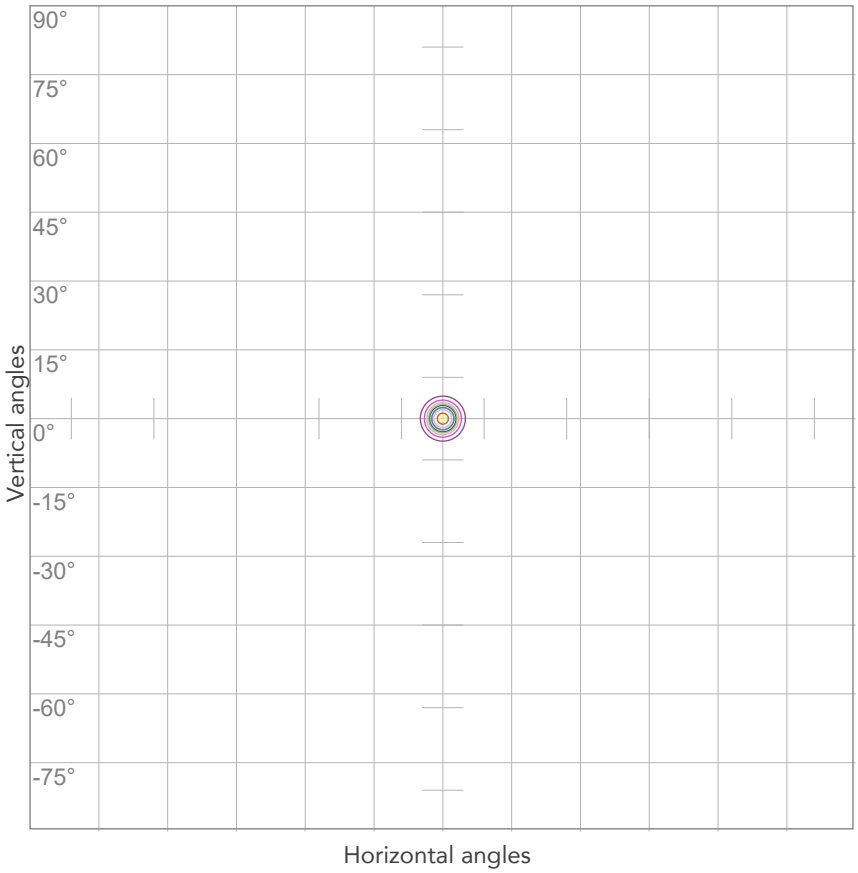
ISO DIAGRAMS

ISO CANDELA DIAGRAM



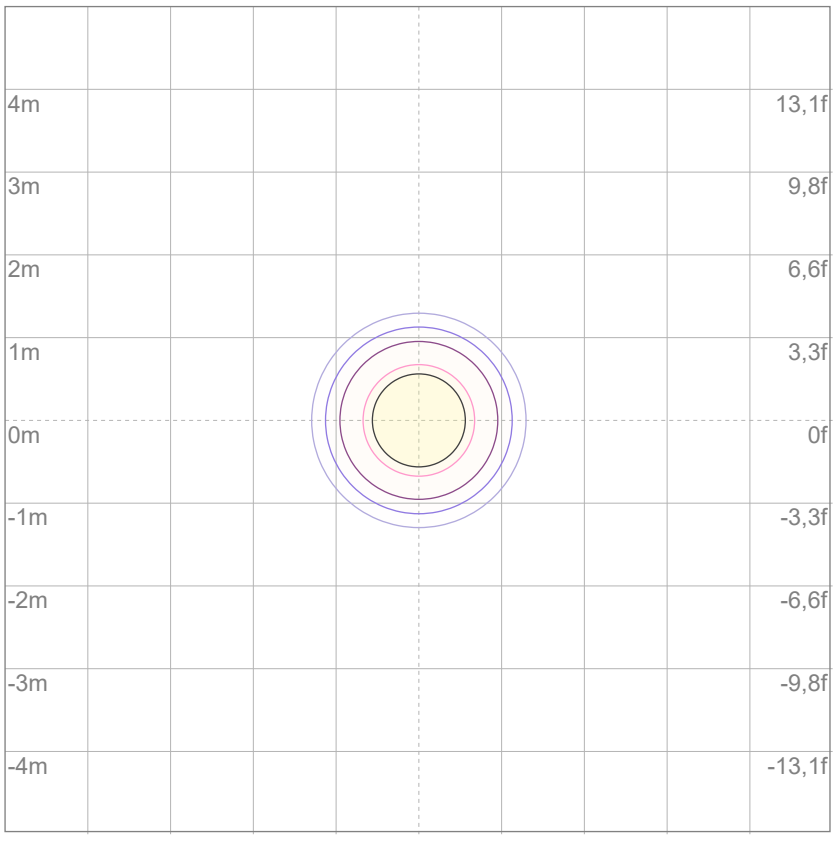
10%	3129 cd
20%	6259 cd
30%	9388 cd
40%	12518 cd
50%	15647 cd
60%	18777 cd
70%	21906 cd
80%	25035 cd

Conditions:

Number of c-planes: 2

Candela at center: 31294 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,39 lx
5%	15,6 lx
10%	31,3 lx
30%	93,9 lx
50%	156 lx

Conditions:

Number of c-planes: 2

Lux at center: 313 lx

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

Total lumen output:

587 lm

Peak candela output:

31495 cd

Light quality:

CRI: 86,8

Color temperature:

6064 K

PRODUCT NAME:

ECLPARDOTFC

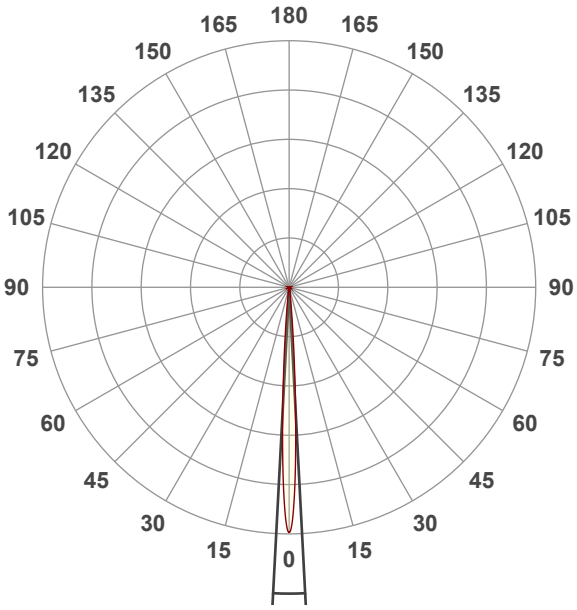
MEASURAMENT CONDITIONS:

Beam angle:
Original Optic

Target:
6000K - HB

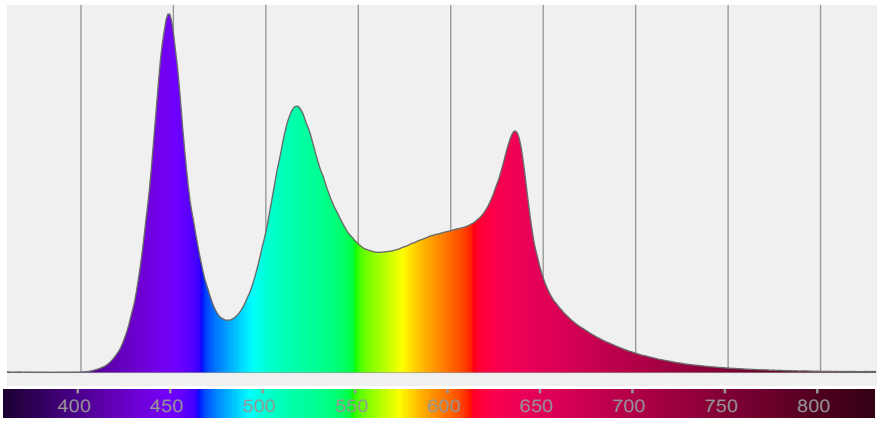
Operator:
Giuseppe della Peruta

Date and time:
06/02/2026 12:06:00

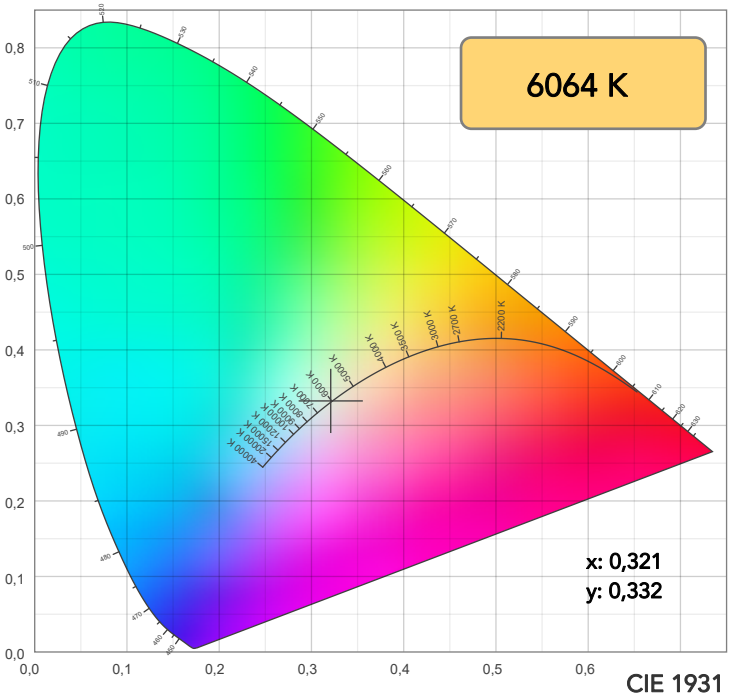


Beam angle 50%: 6°
Field angle 10%: 11,5°
Cut off angle 2.5%: 16,3°

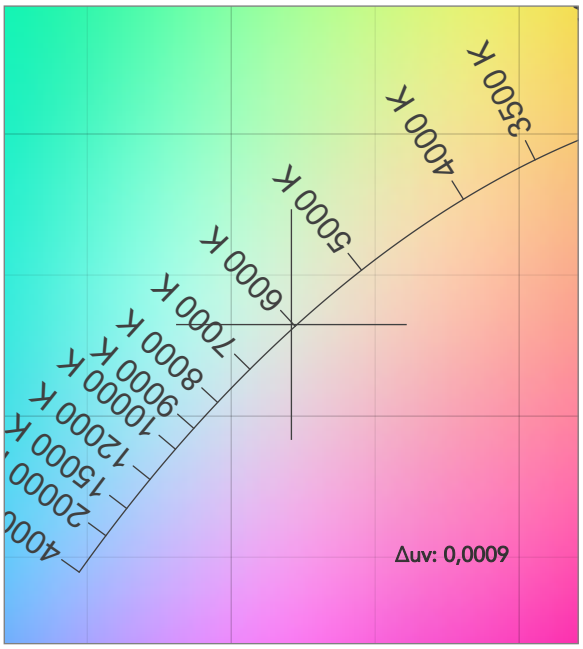
Spectra



COLOR DETAILS

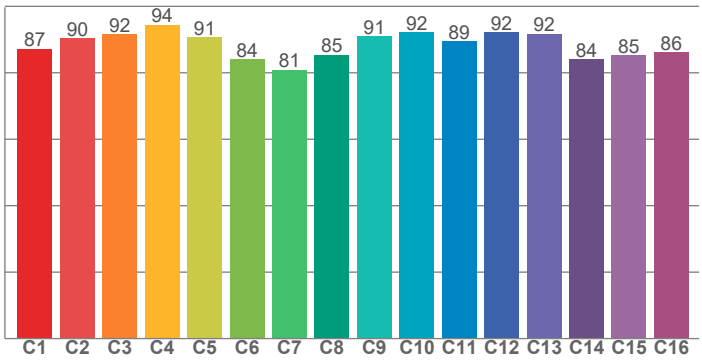


CIE 1931

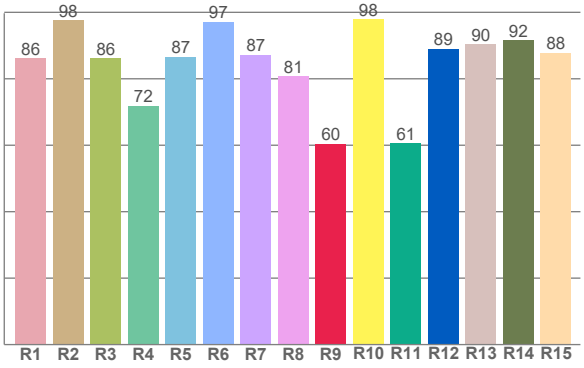


CIE 1931 ZOOM

TM30: 88,8



CRI: 86,8 (R1-R8)



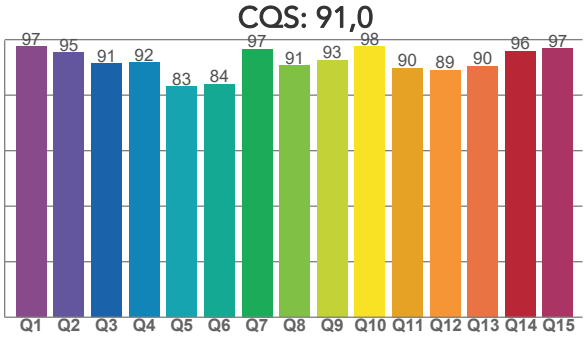
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
86,3	97,8	86,3	71,9	86,7	97,2	87,3	80,8	60,5	97,9	60,5	89,0	90,3	91,6	87,8

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
87,3	90,3	91,6	94,4	90,8	84,0	80,9	85,5	91,0	92,2	89,5	92,1	91,7	84,1	85,2	86,2

CQS: 91,0



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,5	95,4	91,4	91,7	83,1	84,0	96,6	90,7	92,6	97,6	89,8	89,0	90,4	95,8	96,8

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6064 K	86,8	60,5	88,8	110,7	91,0	73	0,321	0,332	0,0009

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TM30 DETAILS

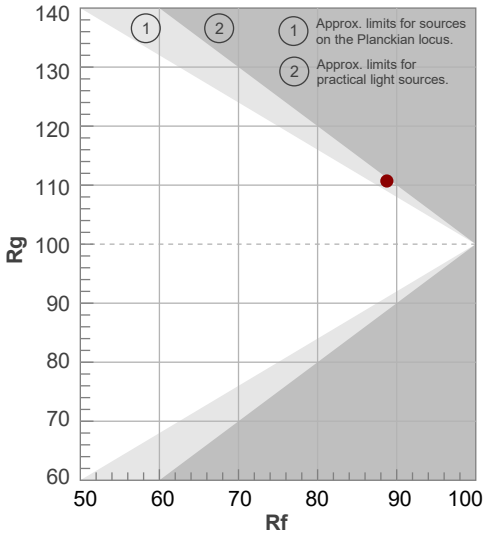
Rf 88,8

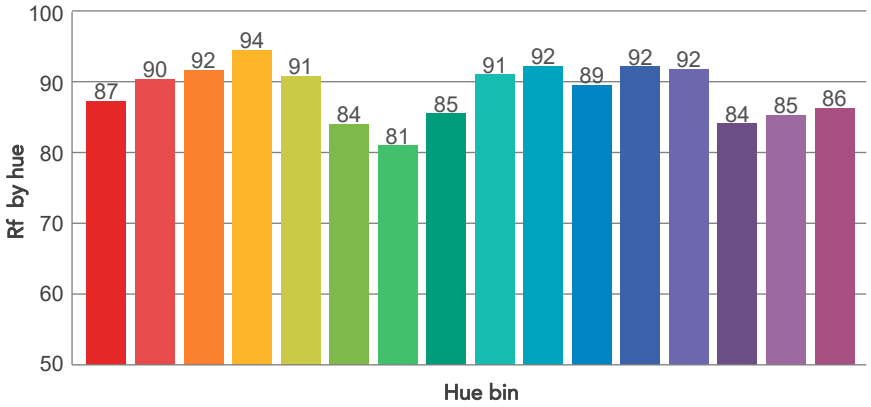
Fidelity index Rf

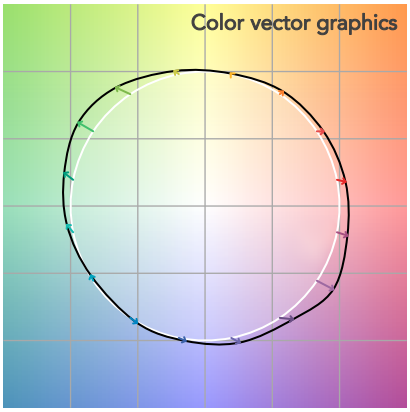
Rg 110,7

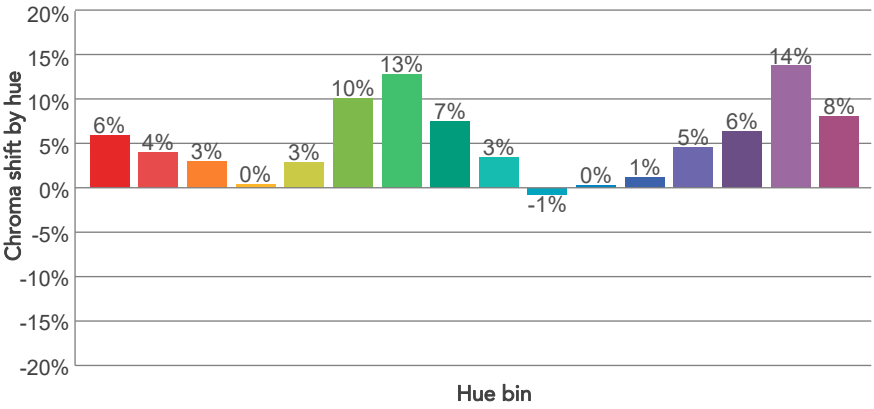
Gammut index

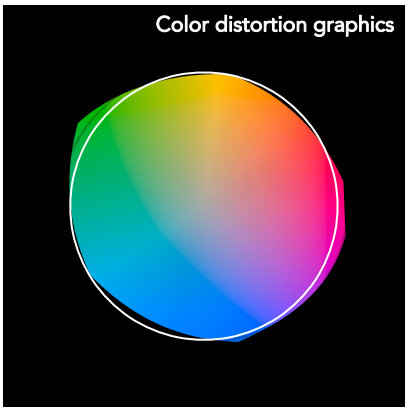
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	87	6%	-3%
2	90	4%	-3%
3	92	3%	-1%
4	94	0%	1%
5	91	3%	3%
6	84	10%	6%
7	81	13%	1%
8	85	7%	-4%
9	91	3%	-6%
10	92	-1%	-4%
11	89	0%	6%
12	92	1%	5%
13	92	5%	5%
14	84	6%	8%
15	85	14%	1%
16	86	8%	-1%

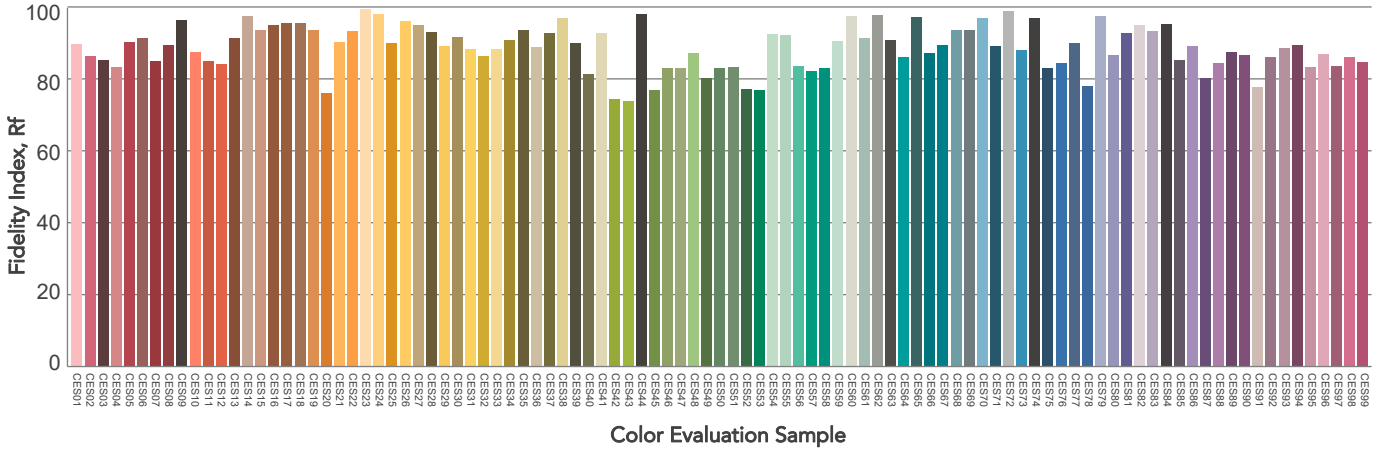












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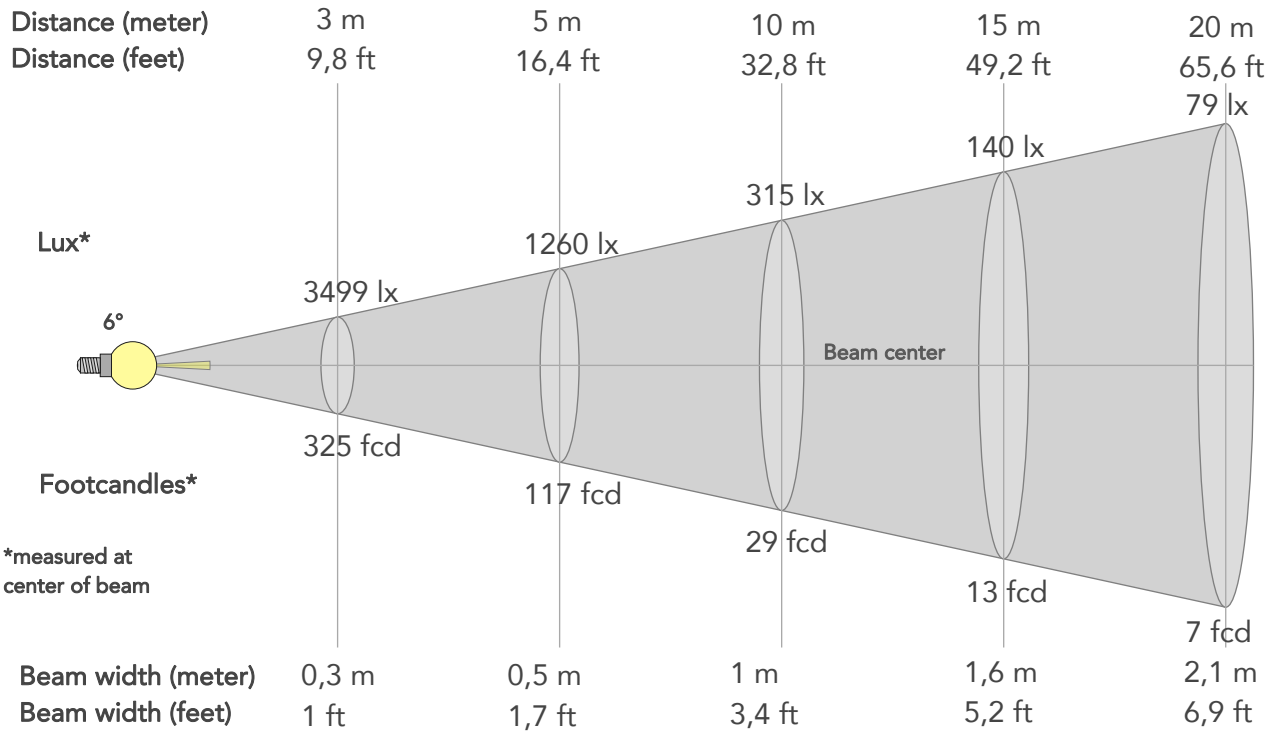
BEAM DETAILS

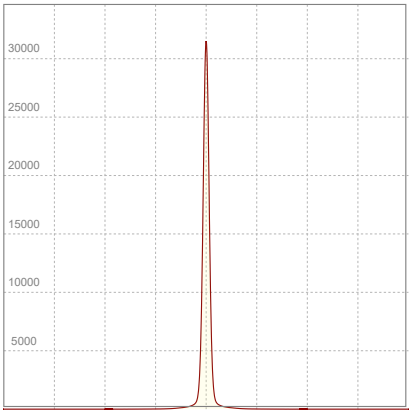
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,5°	16,3°	99,0%	97,1%



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	31495lx	7874lx	3499lx	1968lx	1260lx	560lx	315lx	140lx	79lx	50lx	35lx	20lx	13lx
Footcand.	2926fcd	731fcd	325fcd	183fcd	117fcd	52fcd	29fcd	13fcd	7fcd	5fcd	3fcd	2fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,2m	5,2m
Beam wid.	0,3ft	0,7ft	1ft	1,4ft	1,7ft	2,6ft	3,4ft	5,2ft	6,9ft	8,6ft	10,3ft	13,7ft	17,2ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
227V	0,172A	18,9W	0,48	31lm/W

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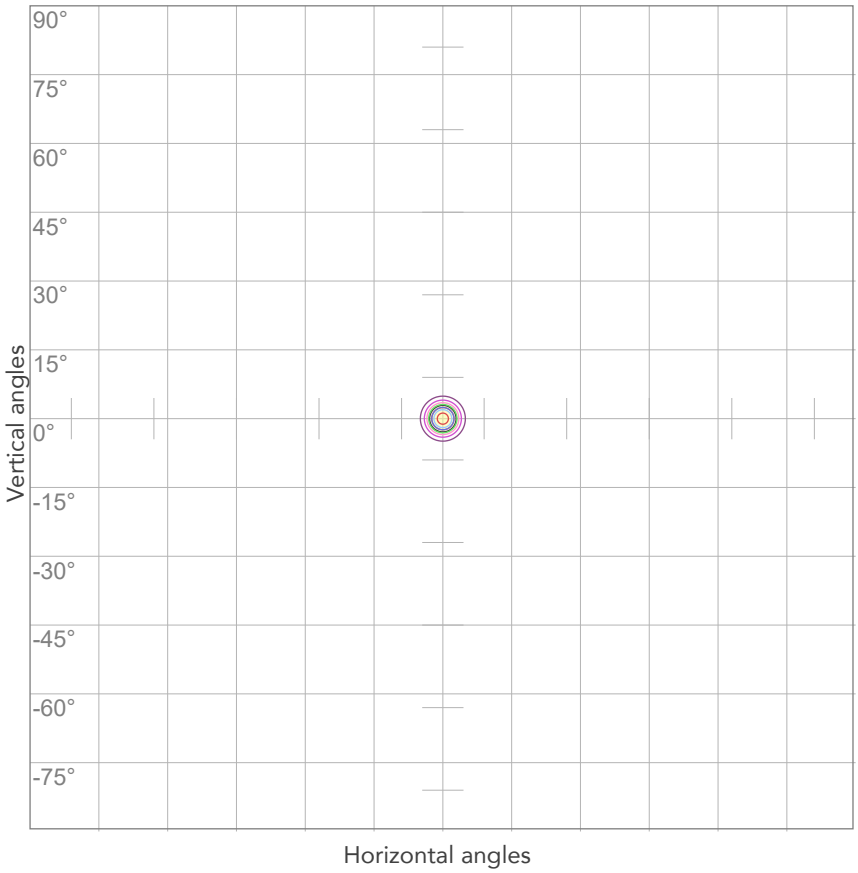
ISO DIAGRAMS

ISO CANDELA DIAGRAM



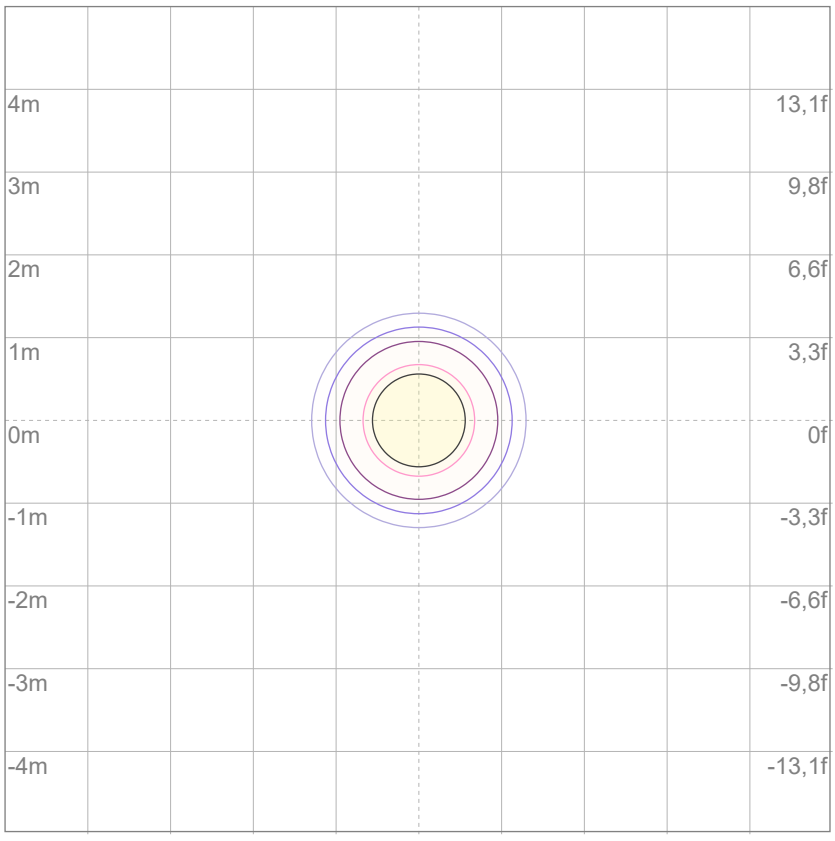
10%	3149 cd
20%	6299 cd
30%	9448 cd
40%	12598 cd
50%	15747 cd
60%	18897 cd
70%	22046 cd
80%	25196 cd

Conditions:

Number of c-planes: 2

Candela at center: 31495 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	9,45 lx
5%	15,7 lx
10%	31,5 lx
30%	94,5 lx
50%	157 lx

Conditions:

Number of c-planes: 2

Lux at center: 315 lx

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