

# Photometric Test Report



## EclPar DotFC

20W RGB+WW LED pinspot, 6° beam angle  
(HQ Mode)

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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:

627 lm

Peak candela output:

33800 cd

Light quality:

CRI: 82,8

Color temperature:

7507 K

**PRODUCT NAME:**

**ECLPARDOTFC**

**MEASURAMENT CONDITIONS:**

Beam angle:

Original Optic

Target:

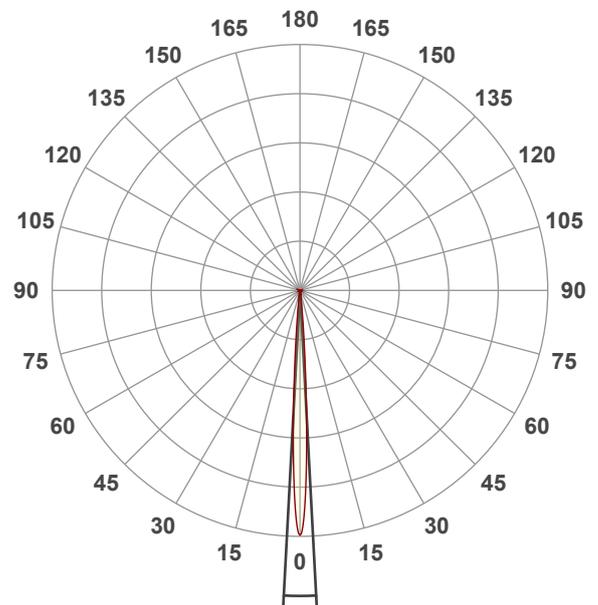
Full On - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:02:59

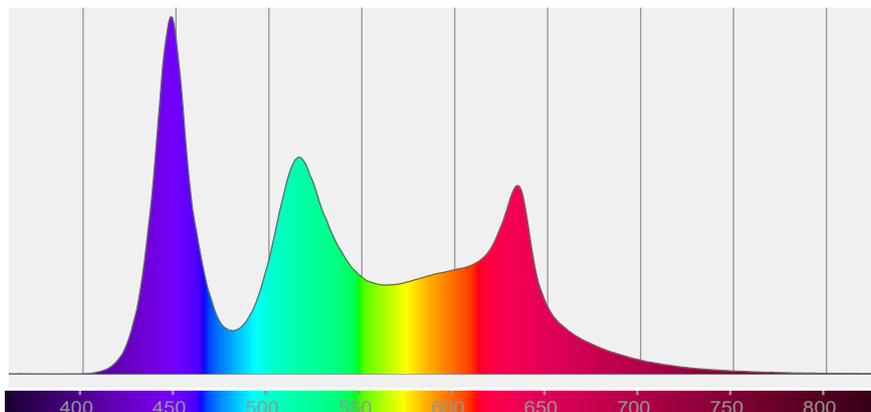


Beam angle 50%: 6°

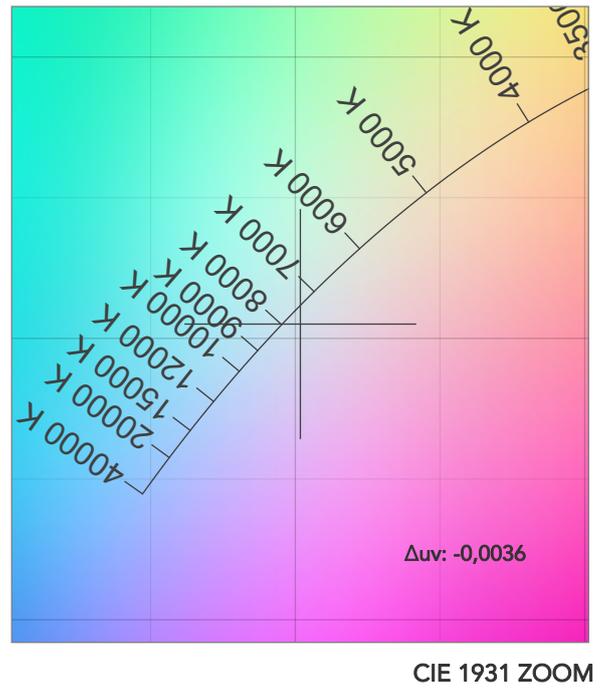
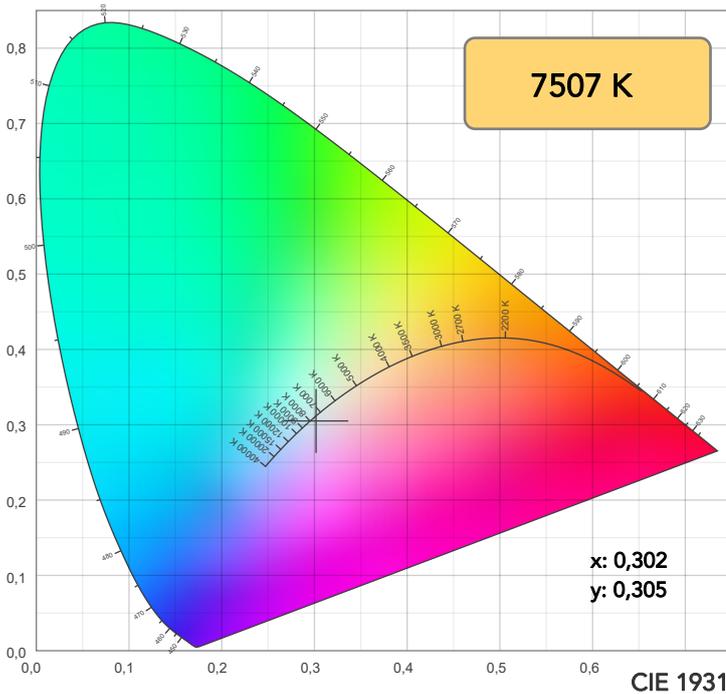
Field angle 10%: 11,5°

Cut off angle 2.5%: 16,4°

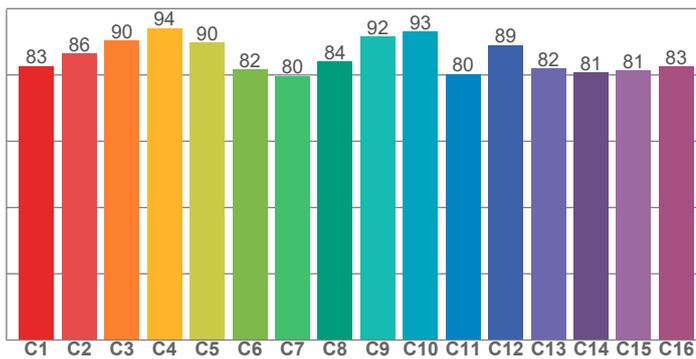
Spectra



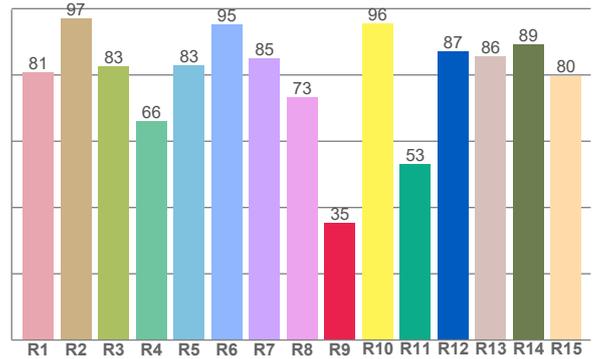
# COLOR DETAILS



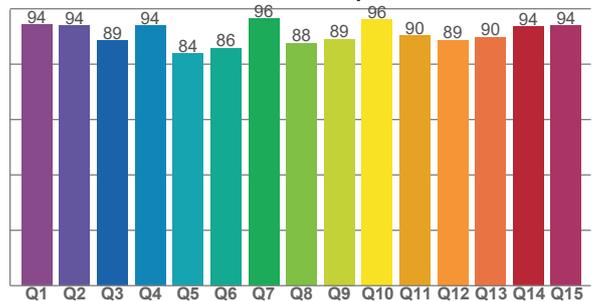
TM30: 86,4



CRI: 82,8 (R1-R8)



CQS: 90,3



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80,7	97,0	82,6	66,0	82,9	95,3	85,0	73,2	35,4	95,6	53,2	87,1	85,6	89,3	79,7

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
82,7	86,5	90,3	94,2	89,7	81,7	79,6	84,1	91,6	93,1	80,3	89,0	81,9	80,7	81,4	82,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,4	94,0	88,6	93,9	83,9	85,8	96,4	87,5	89,1	96,1	90,3	88,6	89,8	93,6	93,9

## COLOR PARAMETERS

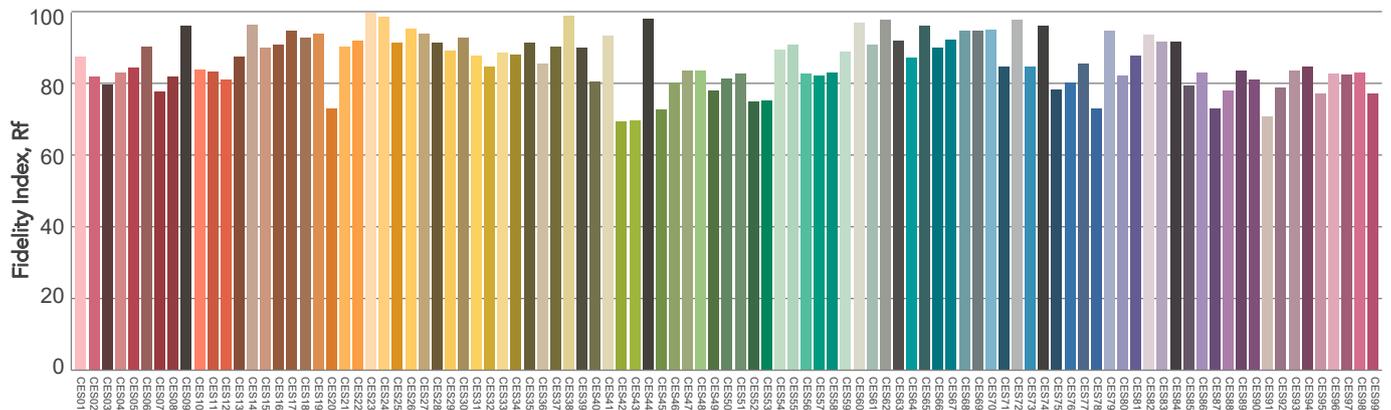
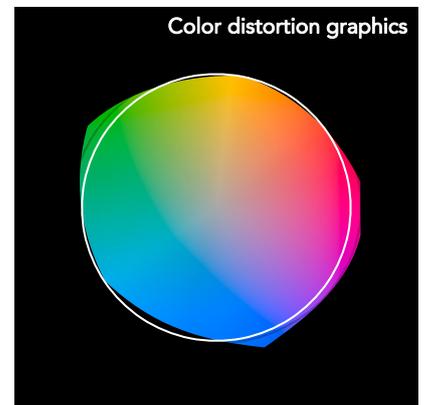
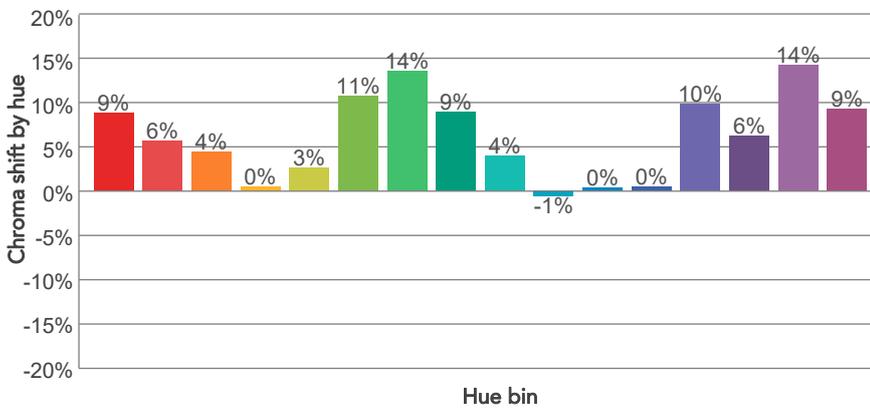
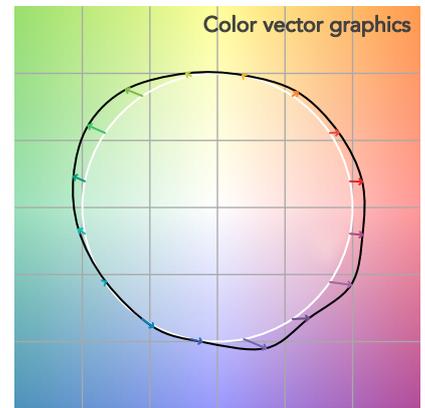
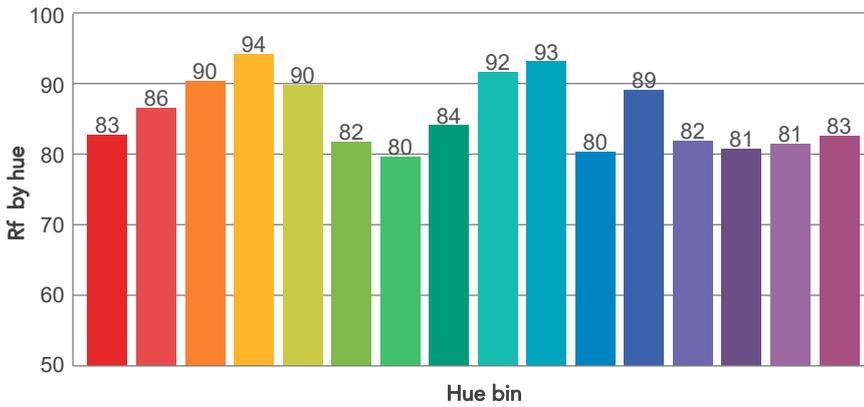
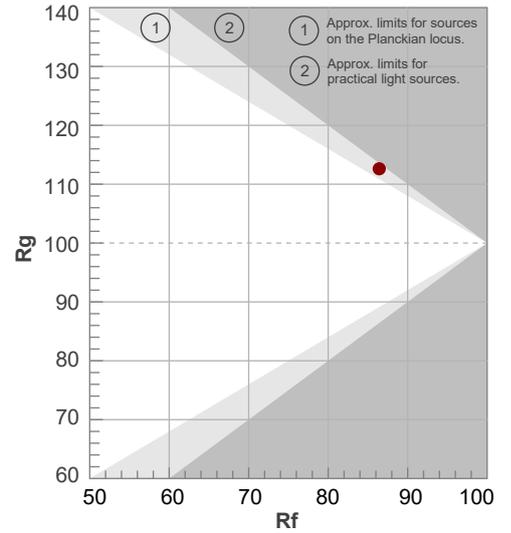
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7507 K	82,8	35,4	86,4	112,6	90,3	73	0,302	0,305	-0,0036

# TM30 DETAILS

**Rf 86,4**  
Fidelity index Rf

**Rg 112,6**  
Gammut index

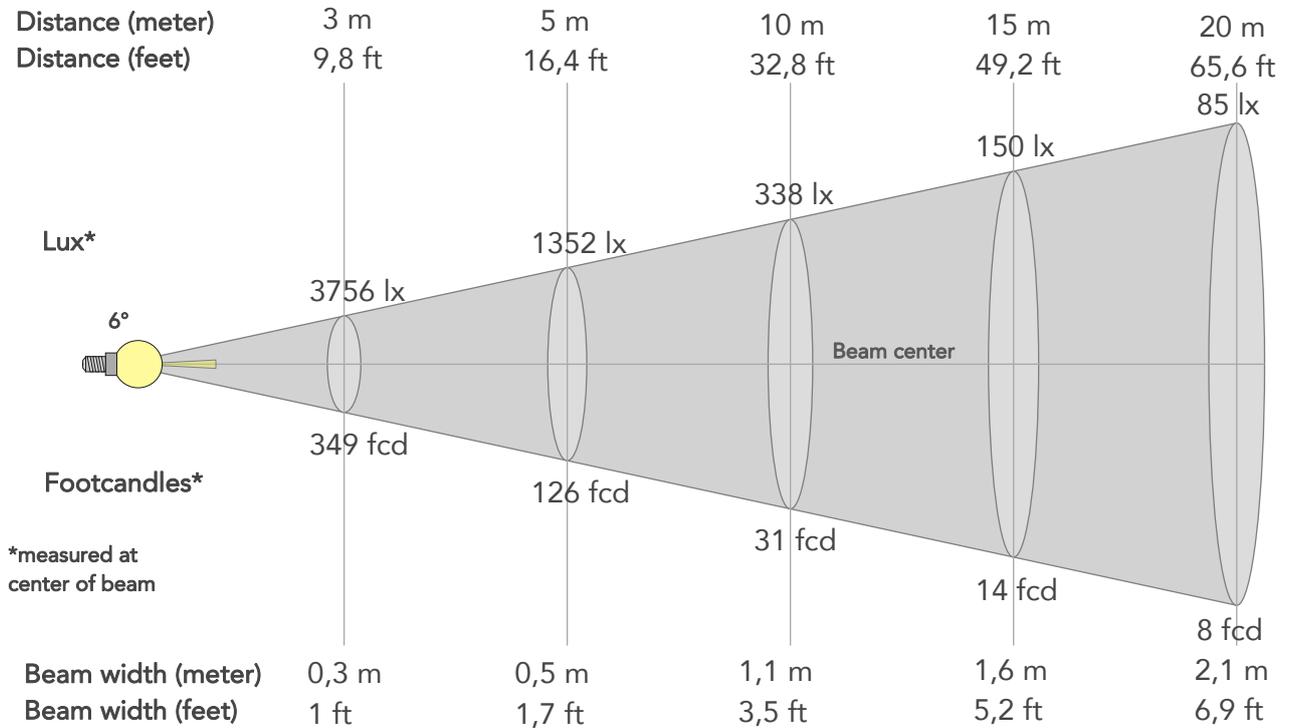
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	83	9%	-2%
2	86	6%	-3%
3	90	4%	-2%
4	94	0%	1%
5	90	3%	3%
6	82	11%	7%
7	80	14%	2%
8	84	9%	-2%
9	92	4%	-4%
10	93	-1%	0%
11	80	0%	10%
12	89	0%	8%
13	82	10%	15%
14	81	6%	10%
15	81	14%	7%
16	83	9%	1%



# BEAM DETAILS



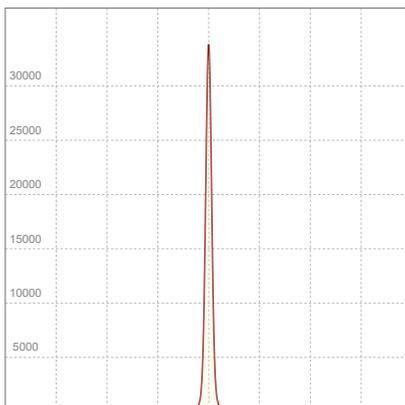
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,5°	16,4°	99,6%	98,0%



## 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	33800lx	8450lx	3756lx	2113lx	1352lx	601lx	338lx	150lx	85lx	54lx	38lx	21lx	14lx
Footcand.	3140fcd	785fcd	349fcd	196fcd	126fcd	56fcd	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	3,5ft	5,2ft	6,9ft	8,6ft	10,4ft	13,8ft	17,3ft

## LINEAR DISTRIBUTION DIAGRAM

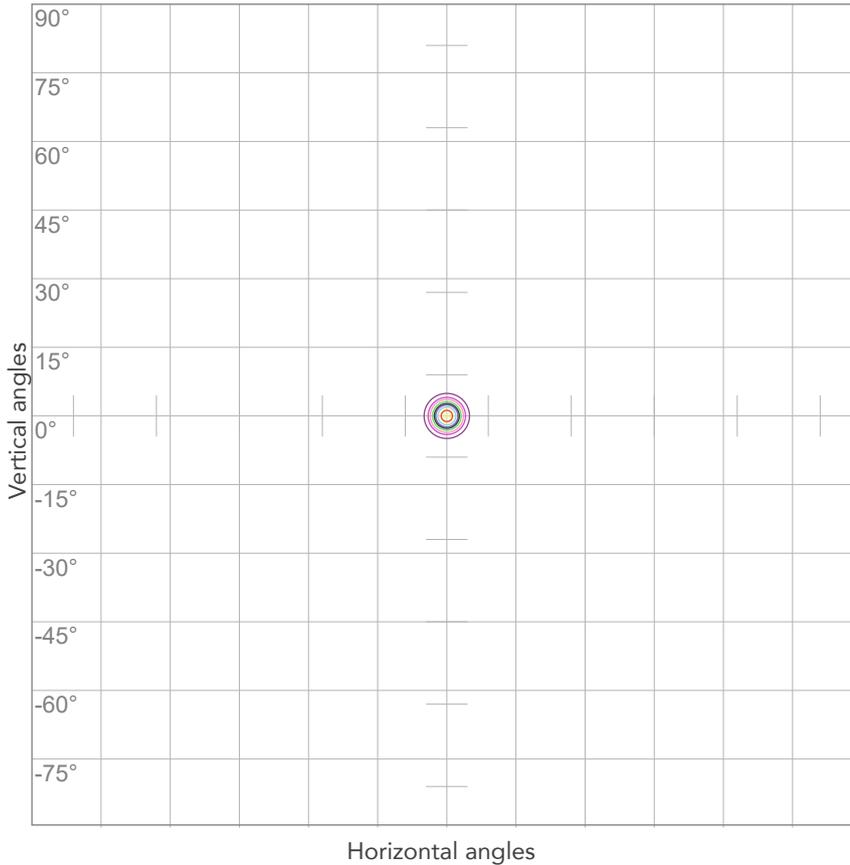


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,182A	20,6W	0,5	30lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



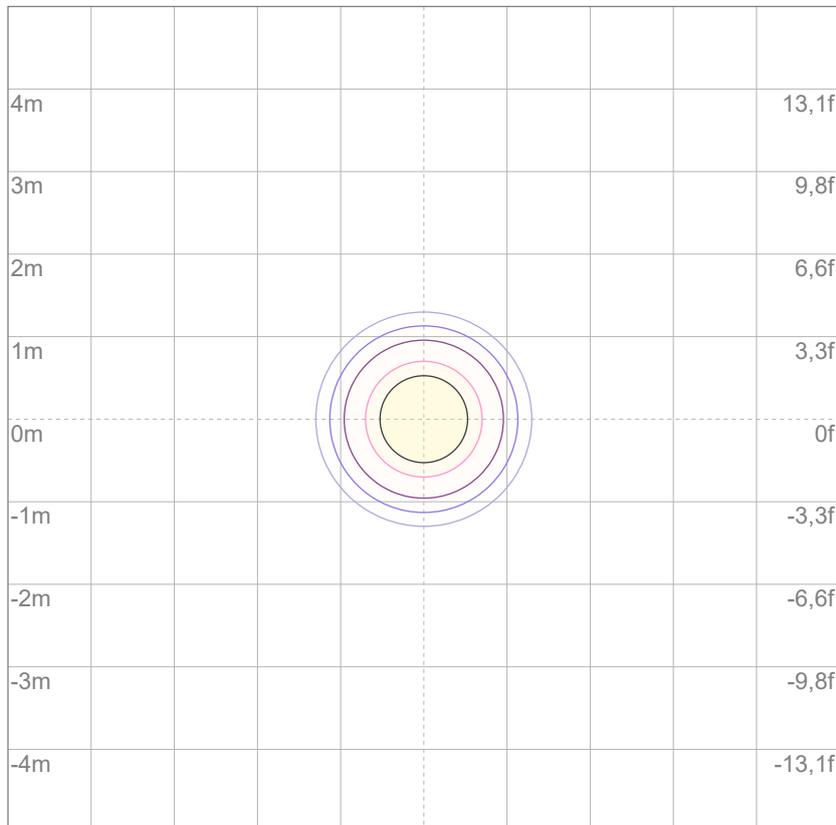
10%	3380 cd
20%	6760 cd
30%	10140 cd
40%	13520 cd
50%	16900 cd
60%	20280 cd
70%	23660 cd
80%	27040 cd

Conditions:

Number of c-planes: 2

Candela at center: 33800 cd

## ISO LUX DIAGRAM



3%	10,1 lx
5%	16,9 lx
10%	33,8 lx
30%	101 lx
50%	169 lx

Conditions:

Number of c-planes: 2

Lux at center: 338 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:

192 lm

Peak candela output:

11635 cd

PRODUCT NAME:

ECLPARDOTFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

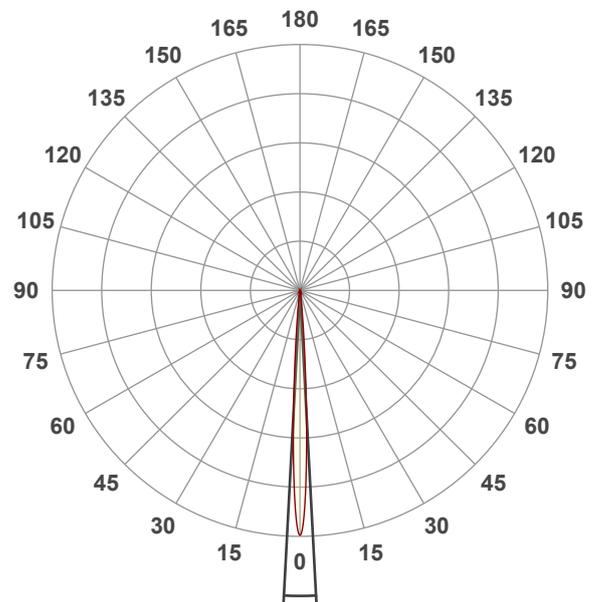
Red - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:10:29

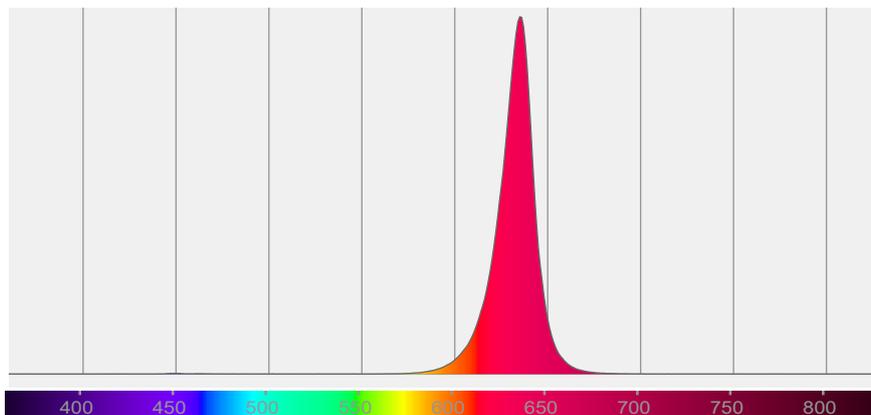


Beam angle 50%: 6°

Field angle 10%: 11,4°

Cut off angle 2.5%: 16°

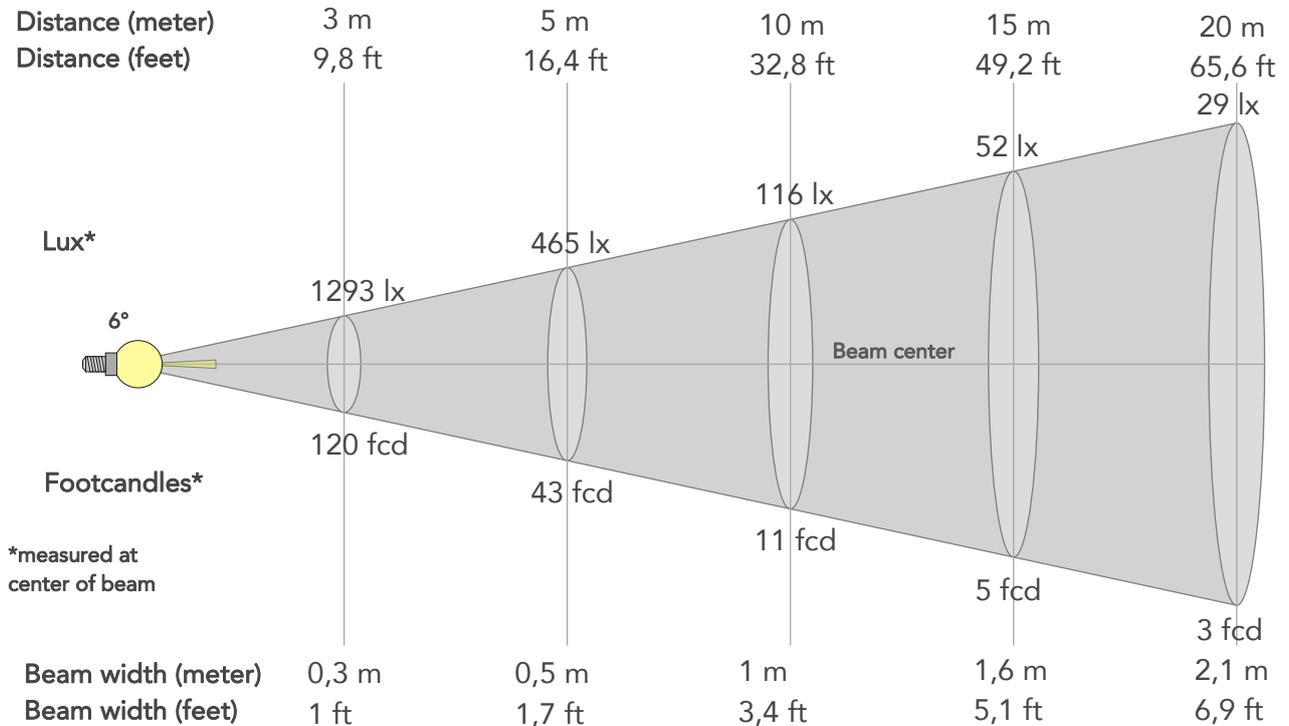
Spectra



# BEAM DETAILS



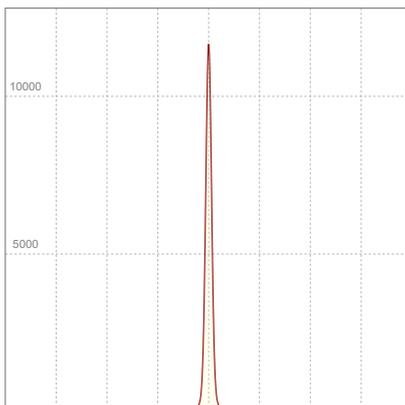
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16°	100,0%	100,0%



## 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	11635lx	2909lx	1293lx	727lx	465lx	207lx	116lx	52lx	29lx	19lx	13lx	7lx	5lx
Footcand.	1081fcd	270fcd	120fcd	68fcd	43fcd	19fcd	11fcd	5fcd	3fcd	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	6,9ft	8,6ft	10,3ft	13,7ft	17,1ft

## LINEAR DISTRIBUTION DIAGRAM

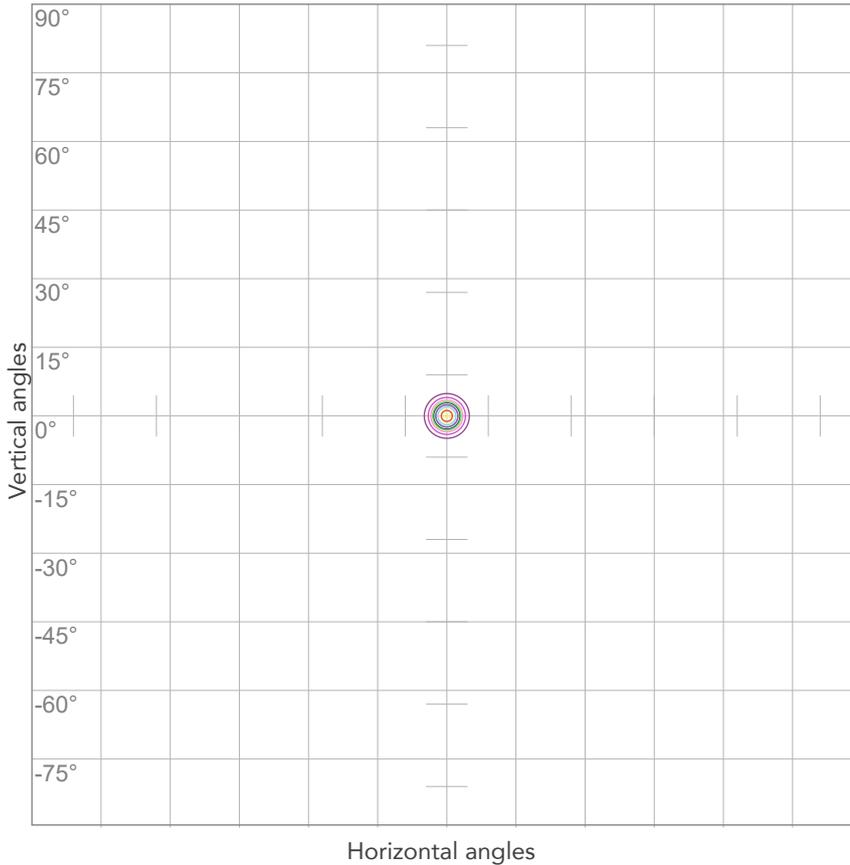


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
226V	0,099A	10,8W	0,48	18lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



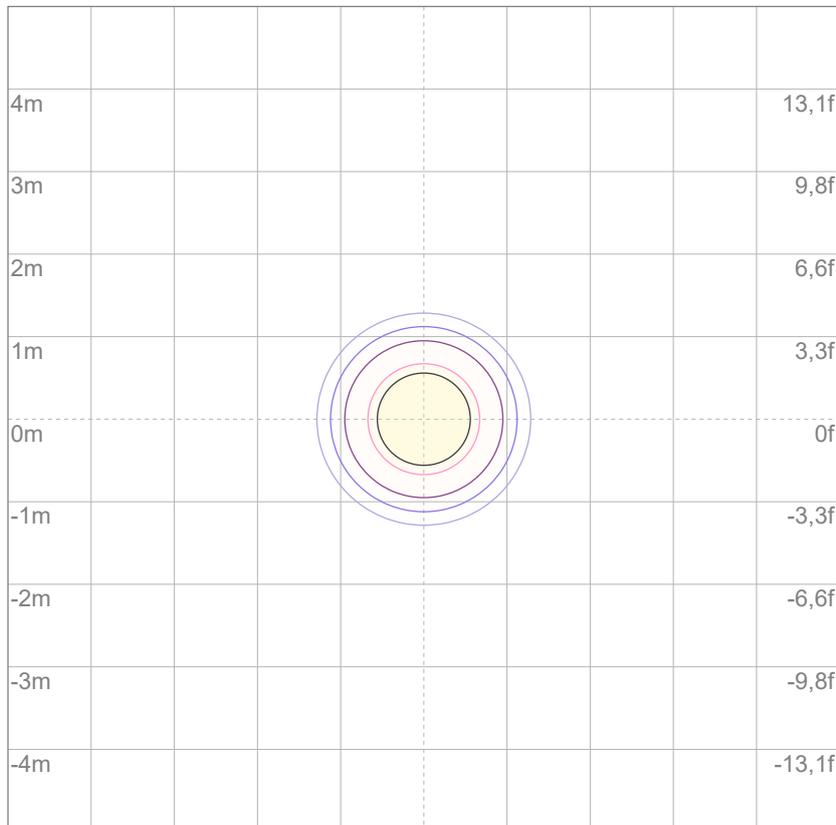
10%	1163 cd
20%	2327 cd
30%	3490 cd
40%	4654 cd
50%	5817 cd
60%	6981 cd
70%	8144 cd
80%	9308 cd

Conditions:

Number of c-planes: 2

Candela at center: 11635 cd

## ISO LUX DIAGRAM



3%	3,49 lx
5%	5,82 lx
10%	11,6 lx
30%	34,9 lx
50%	58,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 116 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:

356 lm

Peak candela output:

18258 cd

PRODUCT NAME:

ECLPARDOTFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

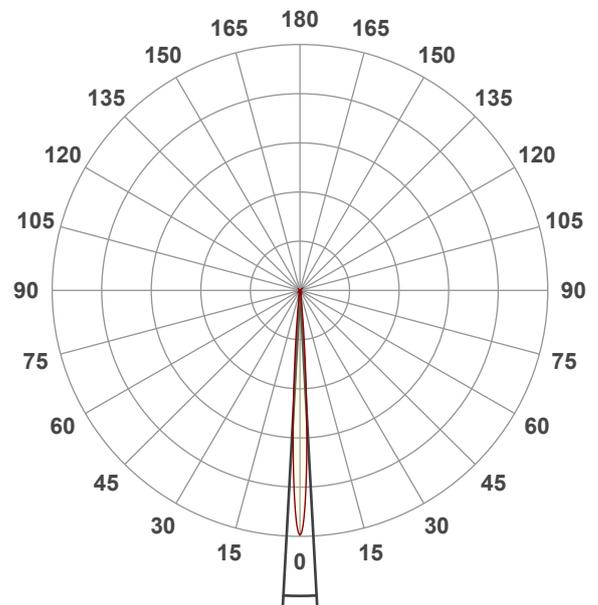
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Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:14:10

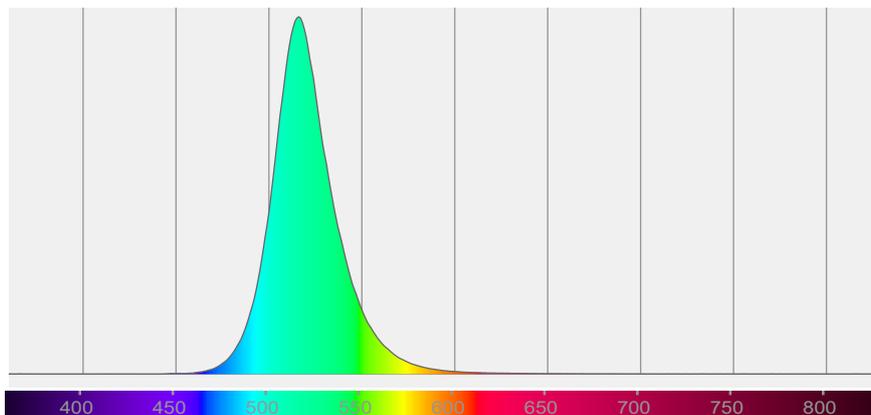


Beam angle 50%: 6,2°

Field angle 10%: 11,8°

Cut off angle 2.5%: 16,8°

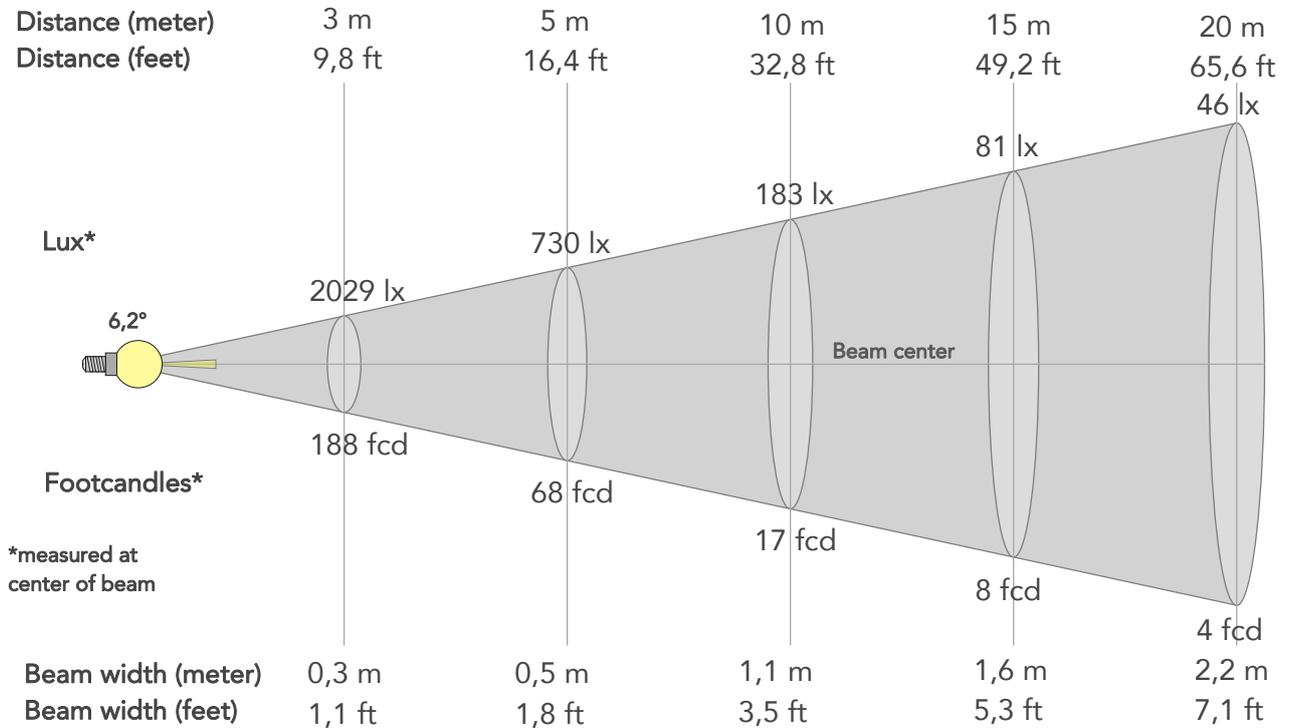
Spectra



# BEAM DETAILS



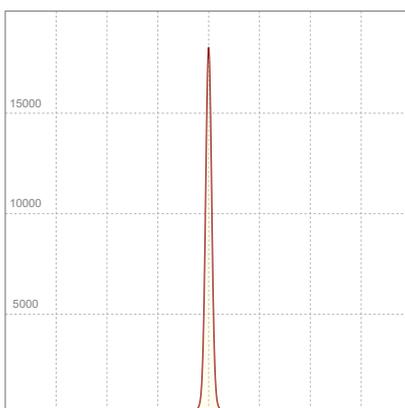
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,2°	11,8°	16,8°	99,5%	97,9%



## 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	18258lx	4564lx	2029lx	1141lx	730lx	325lx	183lx	81lx	46lx	29lx	20lx	11lx	7lx
Footcand.	1696fcd	424fcd	188fcd	106fcd	68fcd	30fcd	17fcd	8fcd	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

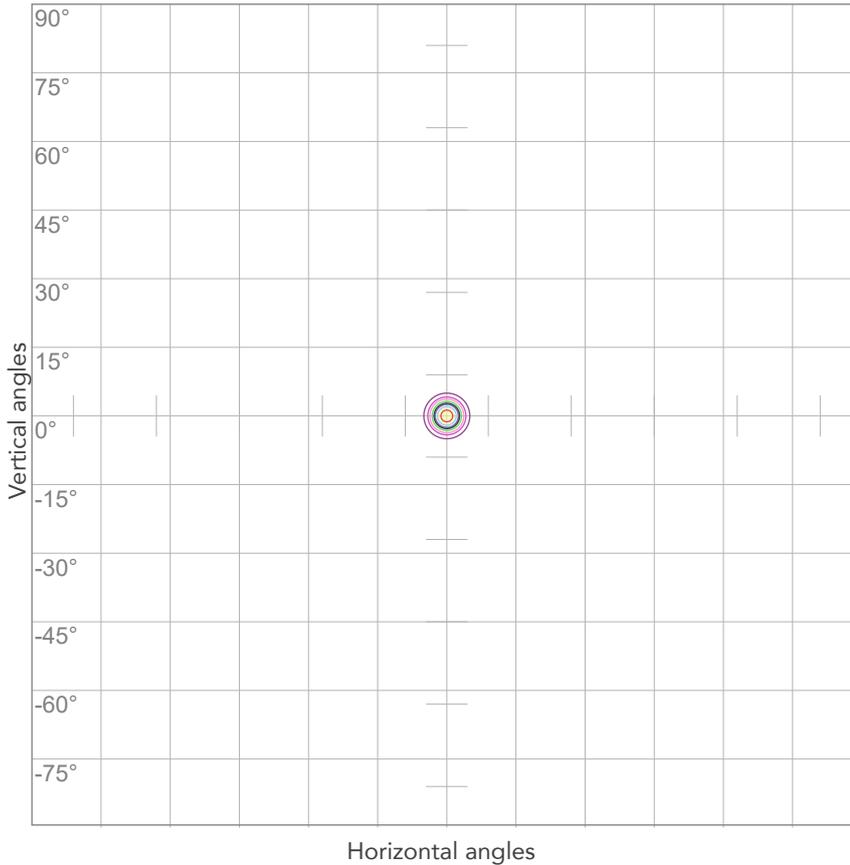


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,113A	12,5W	0,48	29lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



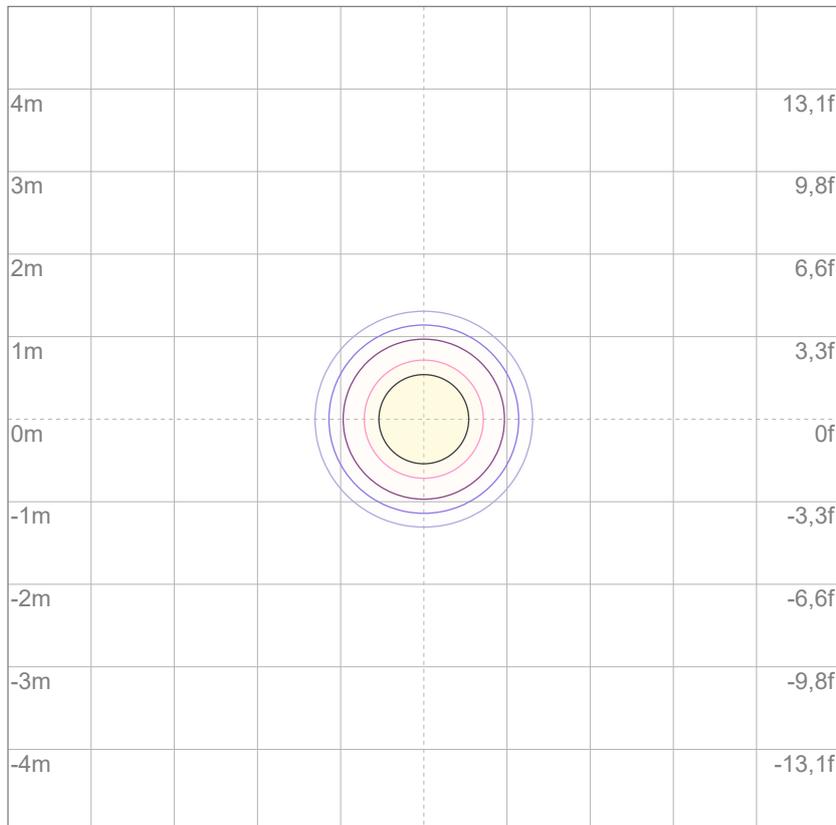
10%	1826 cd
20%	3652 cd
30%	5477 cd
40%	7303 cd
50%	9129 cd
60%	10955 cd
70%	12780 cd
80%	14606 cd

Conditions:

Number of c-planes: 2

Candela at center: 18258 cd

## ISO LUX DIAGRAM



3%	5,48 lx
5%	9,13 lx
10%	18,3 lx
30%	54,8 lx
50%	91,3 lx

Conditions:

Number of c-planes: 2

Lux at center: 183 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:

65,3 lm

Peak candela output:

3797 cd

PRODUCT NAME:

ECLPARDOTFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

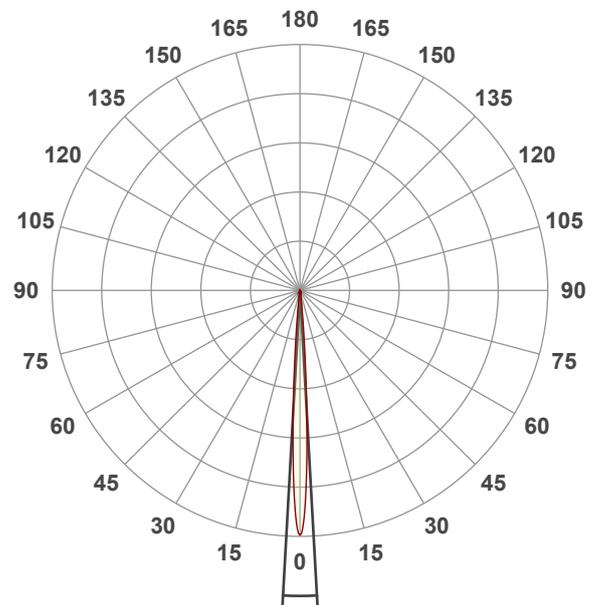
Blue - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:19:44

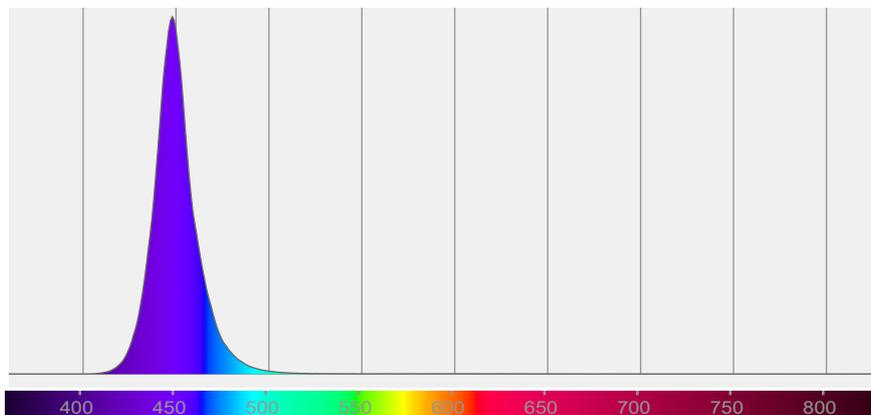


Beam angle 50%: 6,3°

Field angle 10%: 11,9°

Cut off angle 2.5%: 16,5°

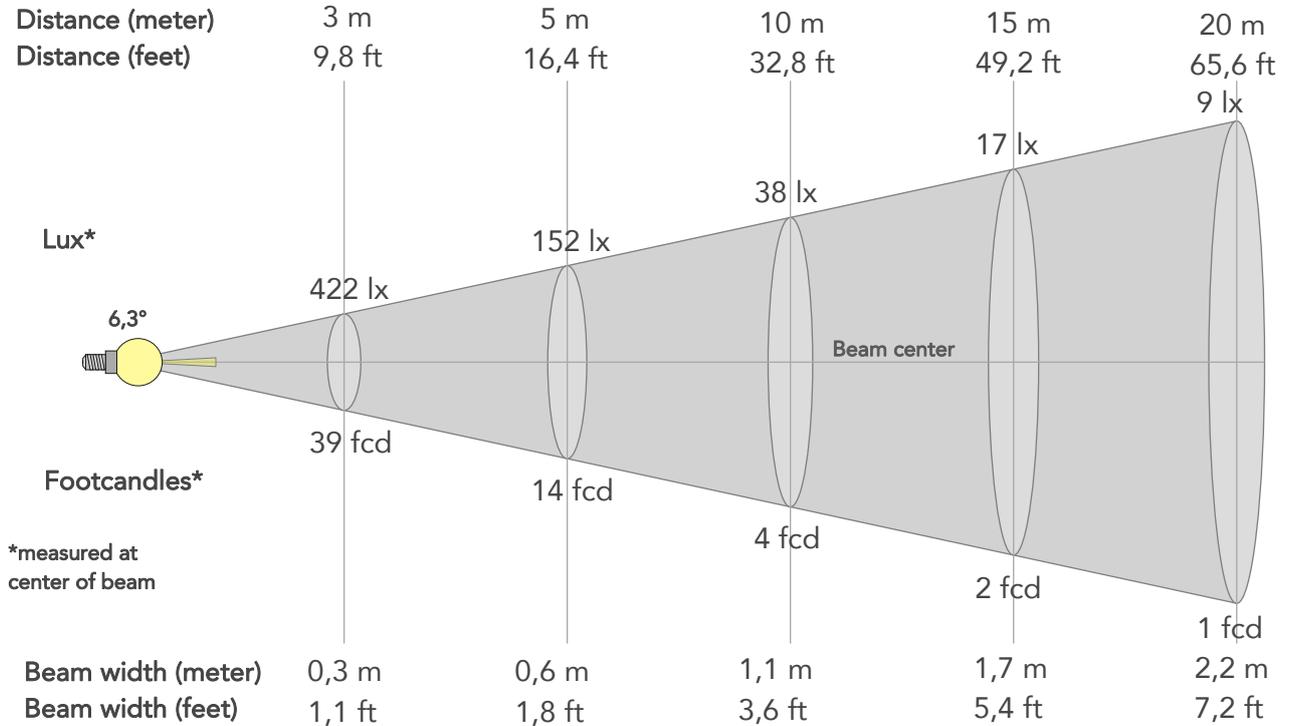
Spectra



# BEAM DETAILS



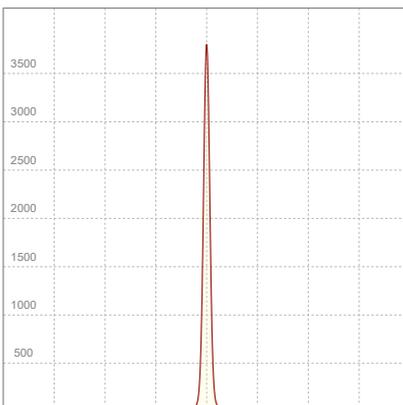
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,3°	11,9°	16,5°	100,0%	100,0%



## 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	3797lx	949lx	422lx	237lx	152lx	68lx	38lx	17lx	9lx	6lx	4lx	2lx	2lx
Footcand.	353fcd	88fcd	39fcd	22fcd	14fcd	6fcd	4fcd	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	10,8ft	14,5ft	18,1ft

## LINEAR DISTRIBUTION DIAGRAM

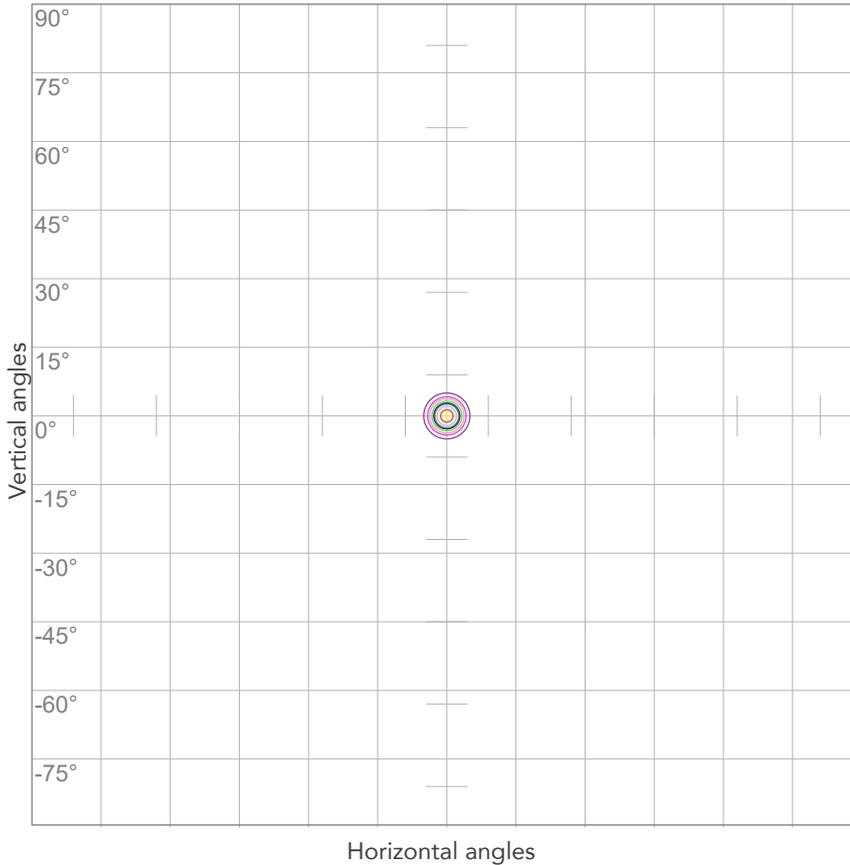


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,118A	12,6W	0,47	5lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



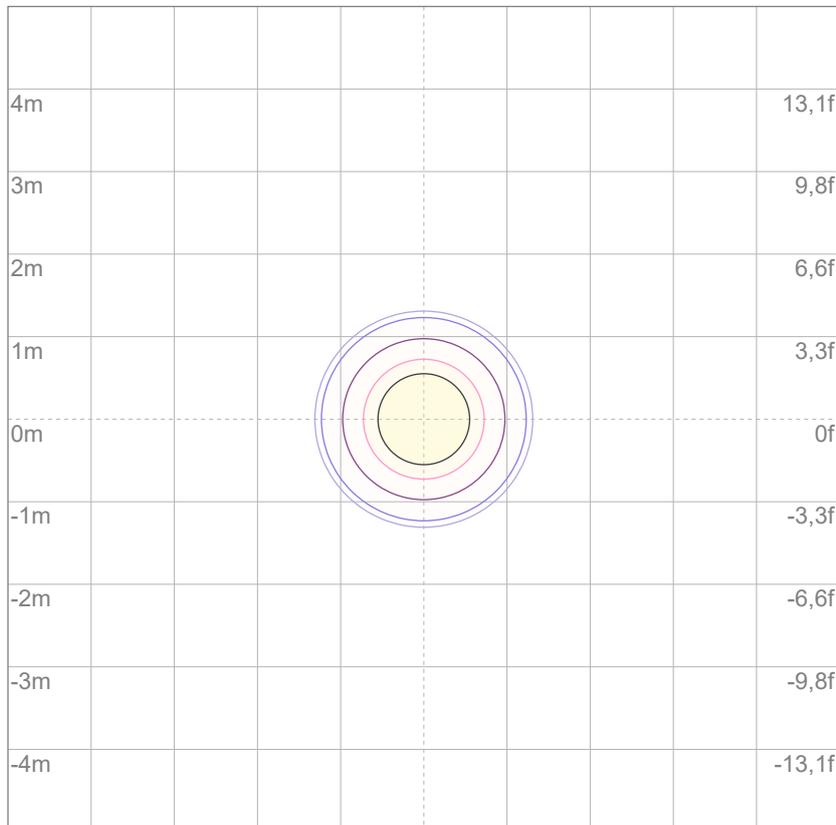
10%	380 cd
20%	759 cd
30%	1139 cd
40%	1519 cd
50%	1899 cd
60%	2278 cd
70%	2658 cd
80%	3038 cd

### Conditions:

Number of c-planes: 2

Candela at center: 3797 cd

## ISO LUX DIAGRAM



3%	1,14 lx
5%	1,90 lx
10%	3,80 lx
30%	11,4 lx
50%	19,0 lx

### Conditions:

Number of c-planes: 2

Lux at center: 38,0 lx

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



Total lumen output:

375 lm

Peak candela output:

20709 cd

Light quality:

CRI: 80,0

Color temperature:

3258 K

**PRODUCT NAME:**

**ECLPARDOTFC**

**MEASURAMENT CONDITIONS:**

Beam angle:

Original Optic

Target:

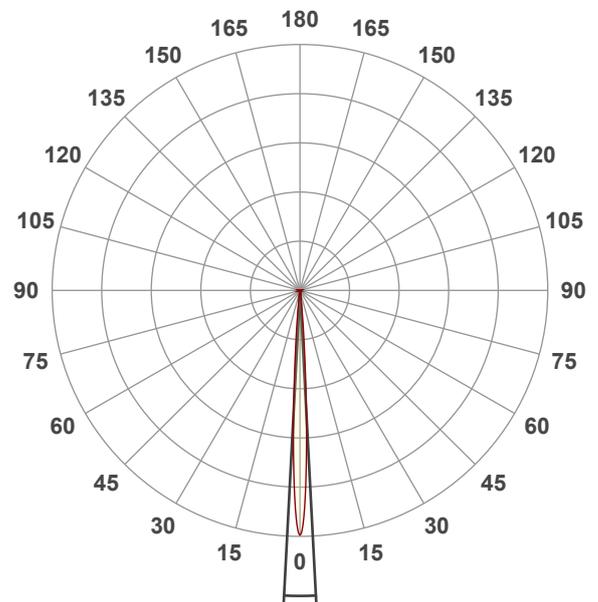
White - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:24:03

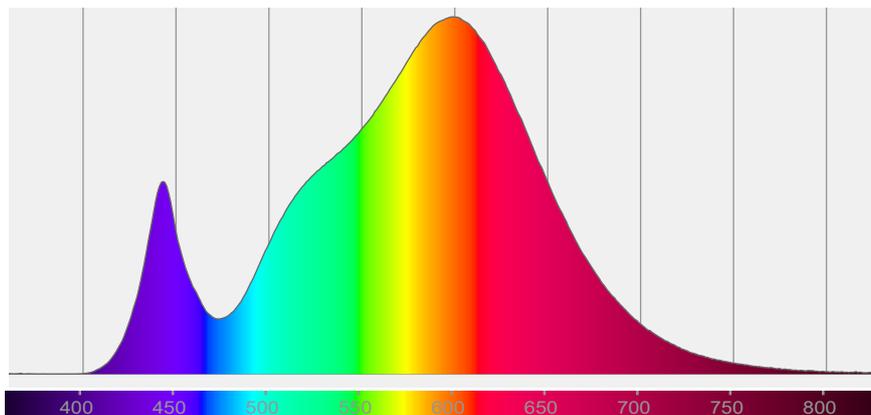


Beam angle 50%: 5,9°

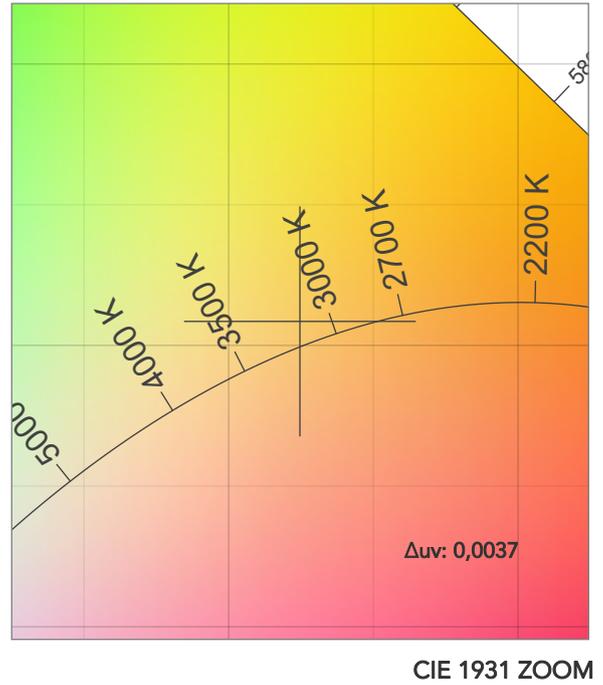
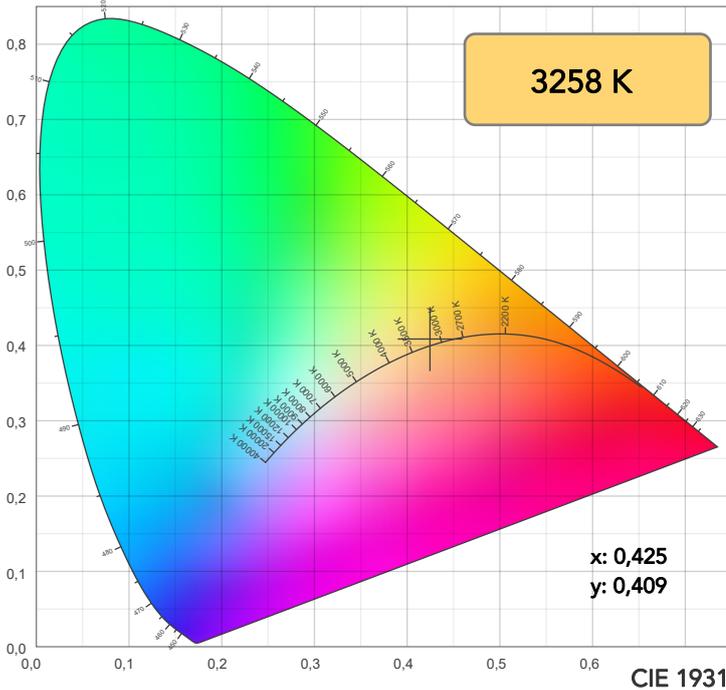
Field angle 10%: 11,4°

Cut off angle 2.5%: 16,2°

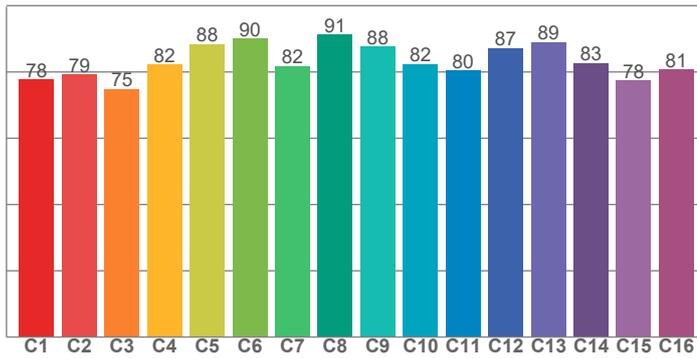
Spectra



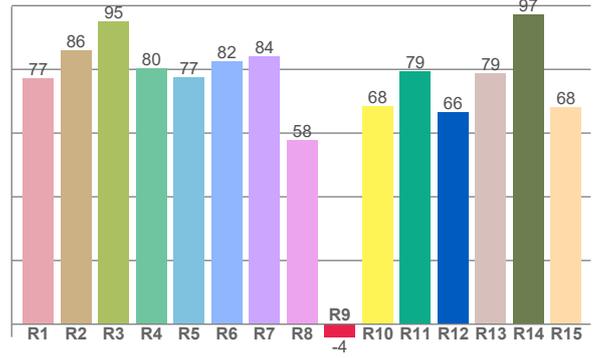
# COLOR DETAILS



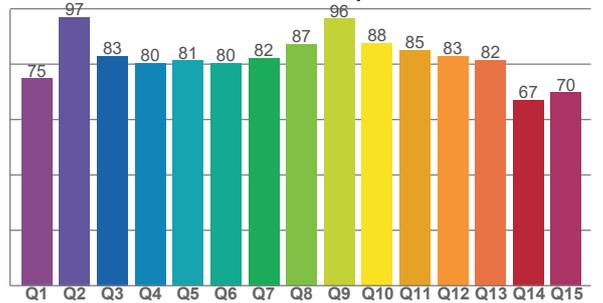
TM30: 83,1



CRI: 80,0 (R1-R8)



CQS: 80,6



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	85,9	95,1	80,3	77,4	82,5	84,1	57,8	-4,0	68,5	79,4	66,4	78,7	97,1	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	82,2	88,4	90,1	81,8	91,3	87,7	82,4	80,5	87,2	89,0	82,7	77,5	80,7

CQS Q values

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

## COLOR PARAMETERS

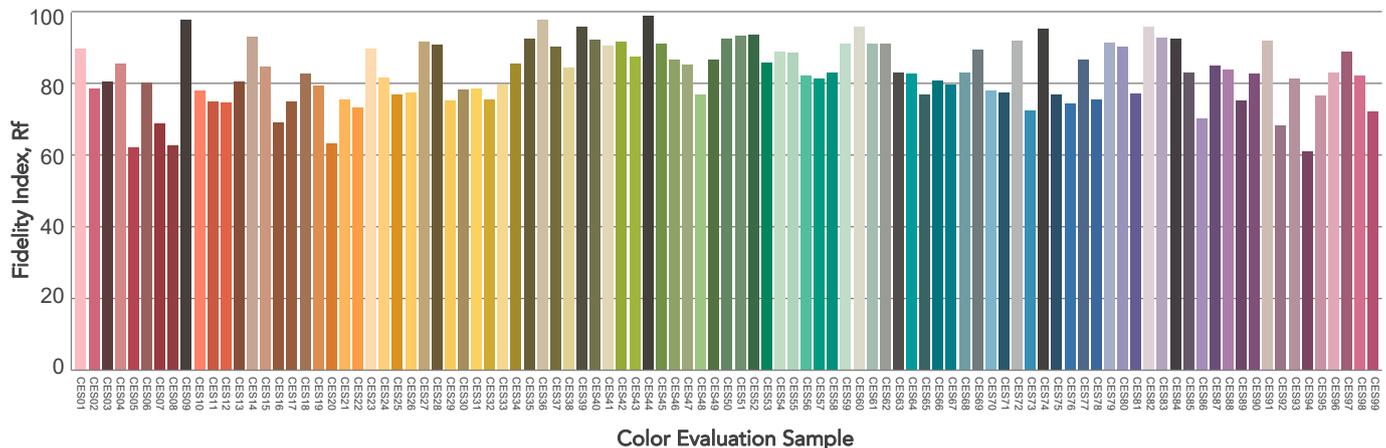
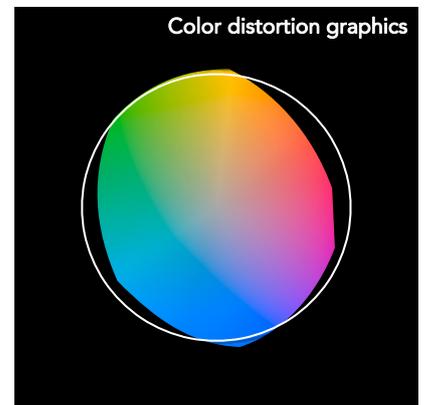
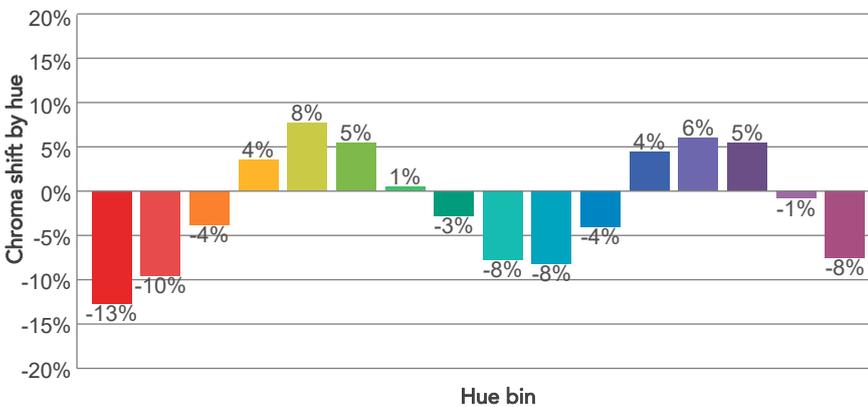
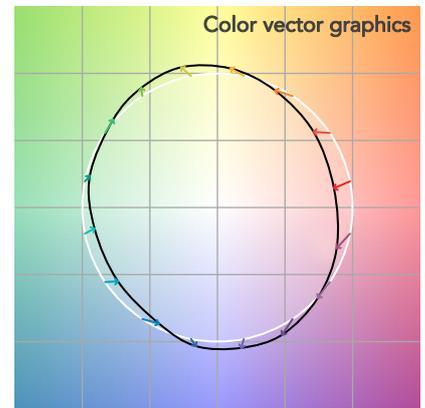
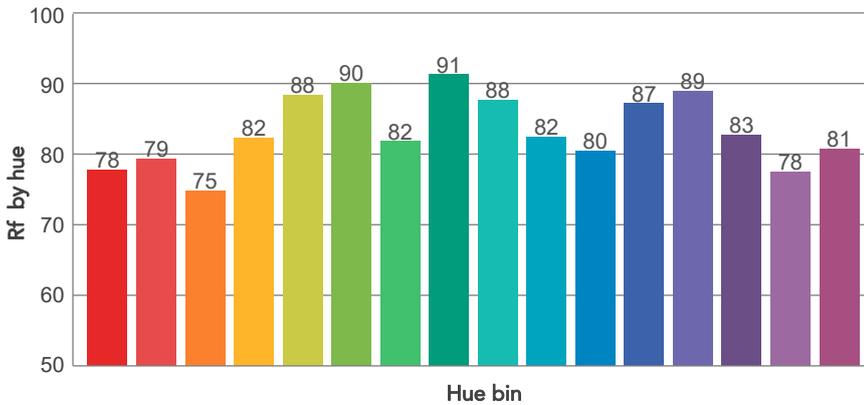
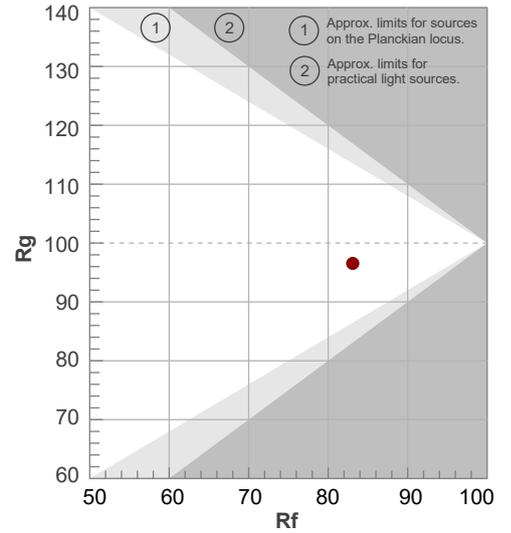
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3258 K	80,0	-4,0	83,1	96,5	80,6	62	0,425	0,409	0,0037

# TM30 DETAILS

**Rf 83,1**  
Fidelity index Rf

**Rg 96,5**  
Gammut index

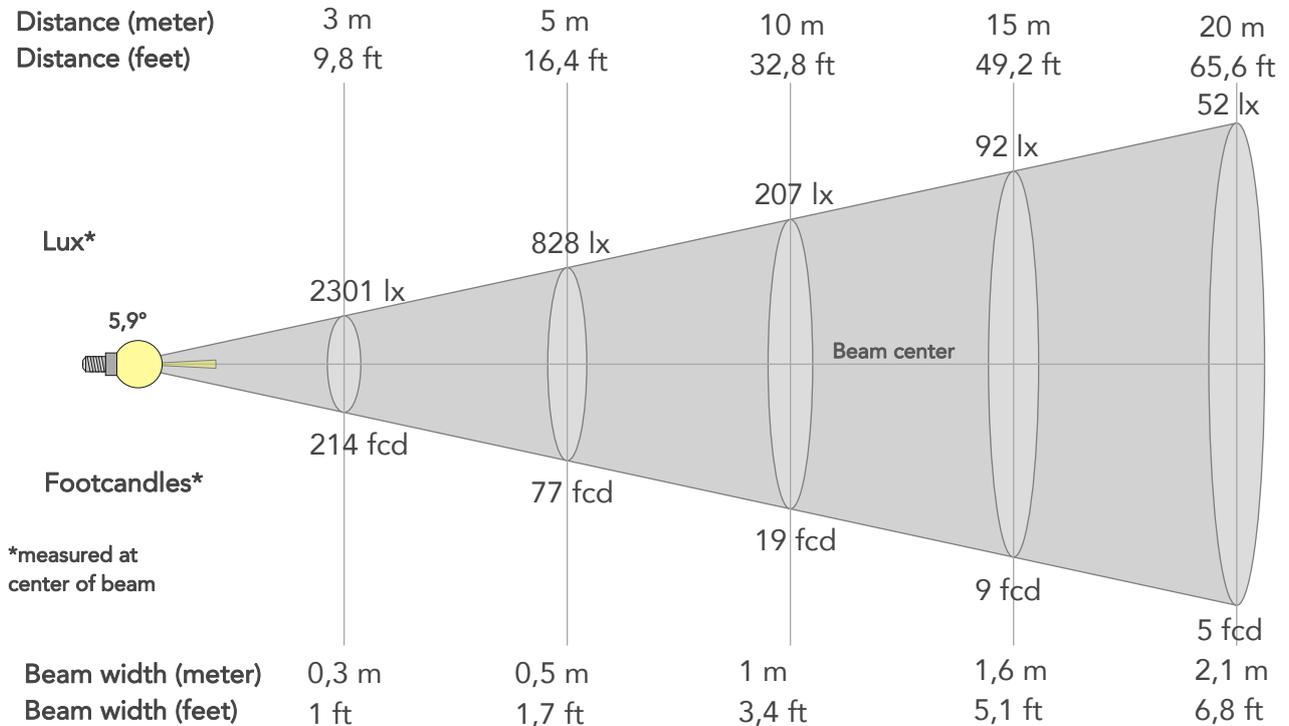
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-13%	-3%
2	79	-10%	7%
3	75	-4%	13%
4	82	4%	11%
5	88	8%	6%
6	90	5%	-3%
7	82	1%	-12%
8	91	-3%	-5%
9	88	-8%	-2%
10	82	-8%	5%
11	80	-4%	12%
12	87	4%	5%
13	89	6%	-3%
14	83	5%	-13%
15	78	-1%	-15%
16	81	-8%	-12%



# BEAM DETAILS



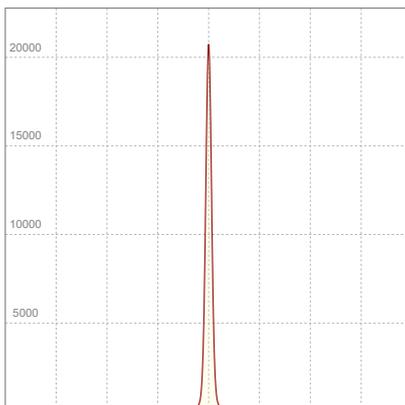
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
5,9°	11,4°	16,2°	99,3%	97,5%



## 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	20709lx	5177lx	2301lx	1294lx	828lx	368lx	207lx	92lx	52lx	33lx	23lx	13lx	8lx
Footcand.	1924fcd	481fcd	214fcd	120fcd	77fcd	34fcd	19fcd	9fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,1m	0,2m	0,3m	0,4m	0,5m	0,8m	1m	1,6m	2,1m	2,6m	3,1m	4,1m	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	13,6ft	17ft

## LINEAR DISTRIBUTION DIAGRAM

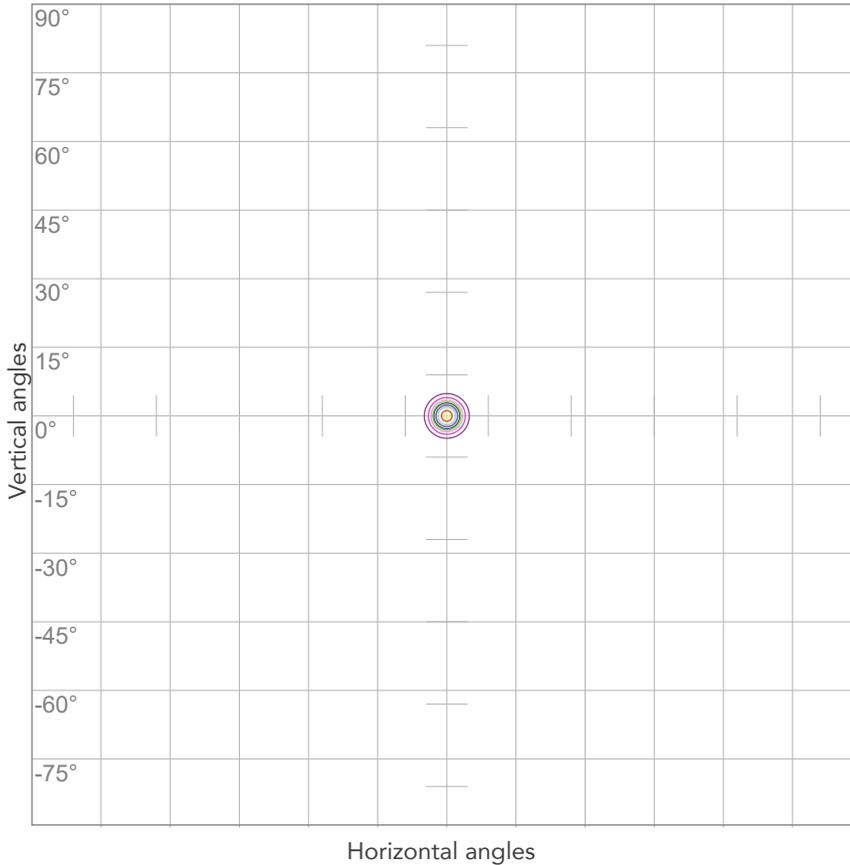


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	0,112A	12,4W	0,48	30lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



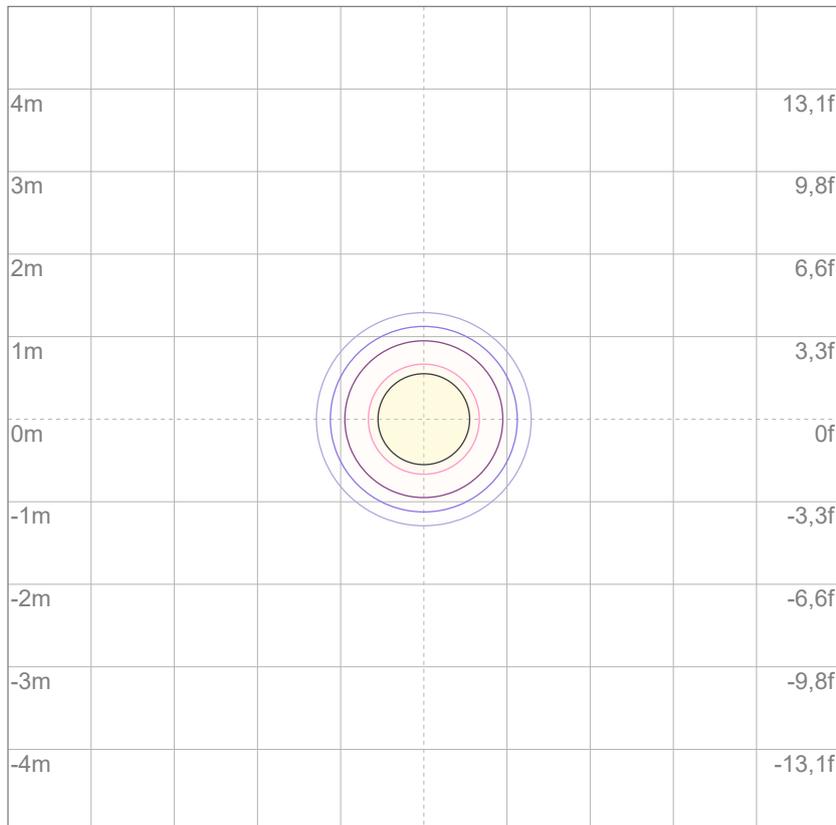
10%	2071 cd
20%	4142 cd
30%	6213 cd
40%	8284 cd
50%	10355 cd
60%	12426 cd
70%	14497 cd
80%	16567 cd

Conditions:

Number of c-planes: 2

Candela at center: 20709 cd

## ISO LUX DIAGRAM



3%	6,21 lx
5%	10,4 lx
10%	20,7 lx
30%	62,1 lx
50%	104 lx

Conditions:

Number of c-planes: 2

Lux at center: 207 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:

517 lm

Peak candela output:

29738 cd

Light quality:

CRI: 78,7

Color temperature:

2812 K

**PRODUCT NAME:**

ECLPARDOTFC

**MEASUREMENT CONDITIONS:**

Beam angle:

Original Optic

Target:

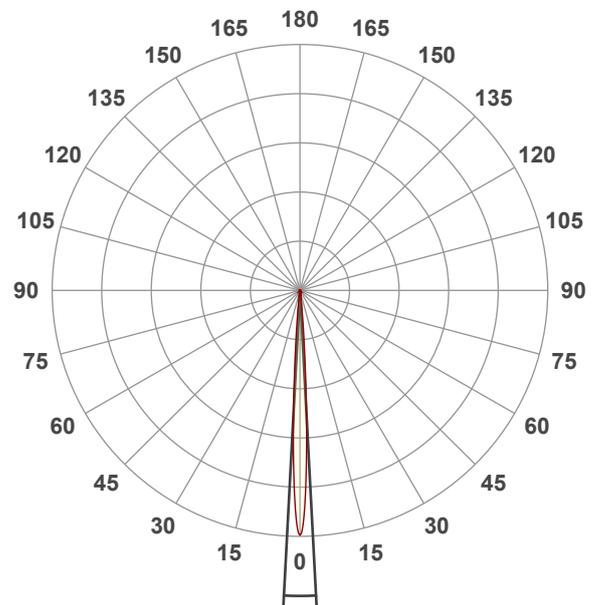
2800K - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:35:25

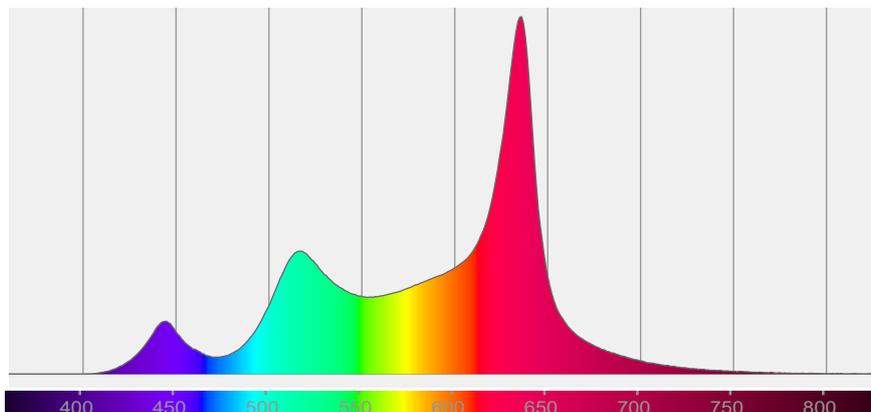


Beam angle 50%: 6°

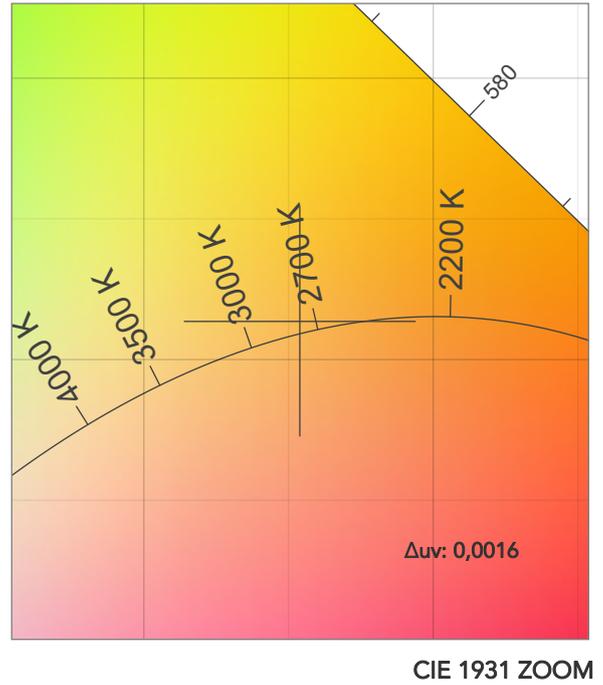
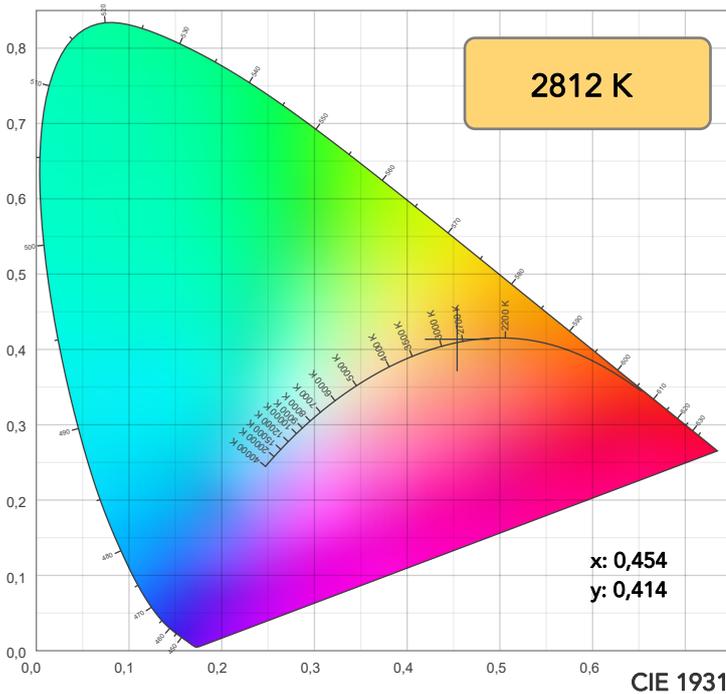
Field angle 10%: 11,4°

Cut off angle 2.5%: 16,2°

Spectra

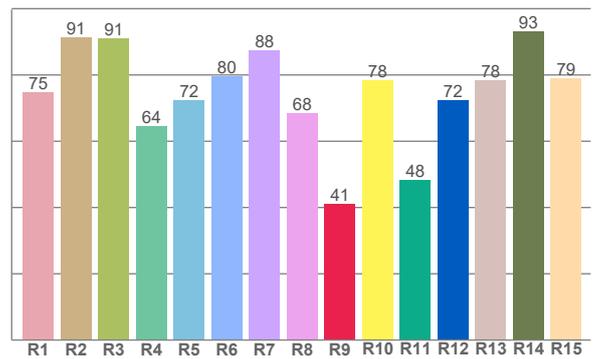
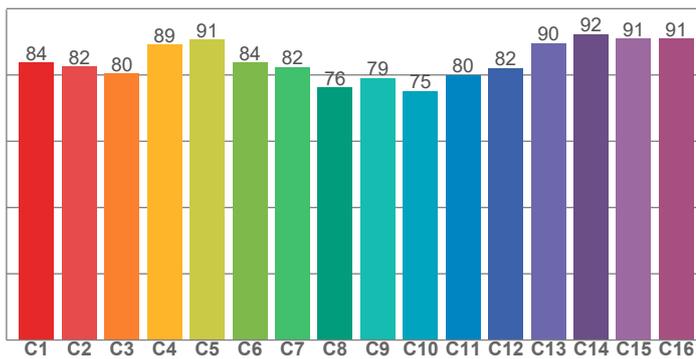


# COLOR DETAILS



TM30: 84,3

CRI: 78,7 (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
74,8	91,2	91,0	64,4	72,5	79,6	87,5	68,5	41,0	78,3	48,3	72,3	78,3	93,1	79,0

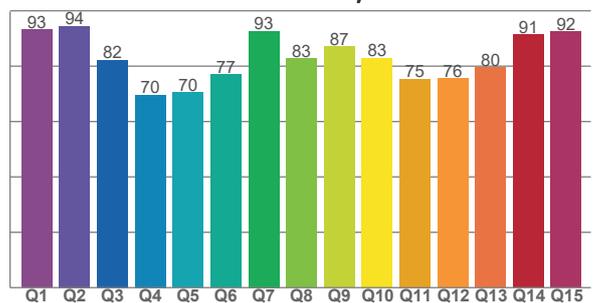
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
83,8	82,5	80,4	89,1	90,7	83,8	82,4	76,2	79,1	75,2	80,0	82,0	89,6	92,3	90,9	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,1	94,4	82,3	69,6	70,5	77,0	92,6	82,7	87,1	82,9	75,3	75,6	79,6	91,3	92,5

CQS: 81,0



## COLOR PARAMETERS

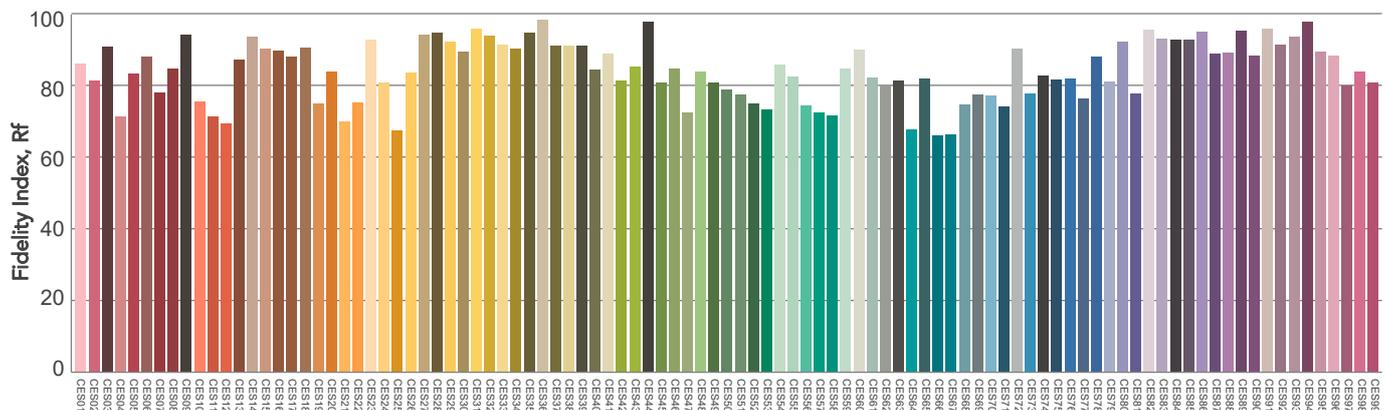
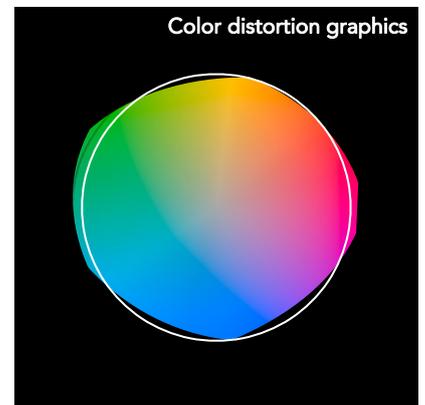
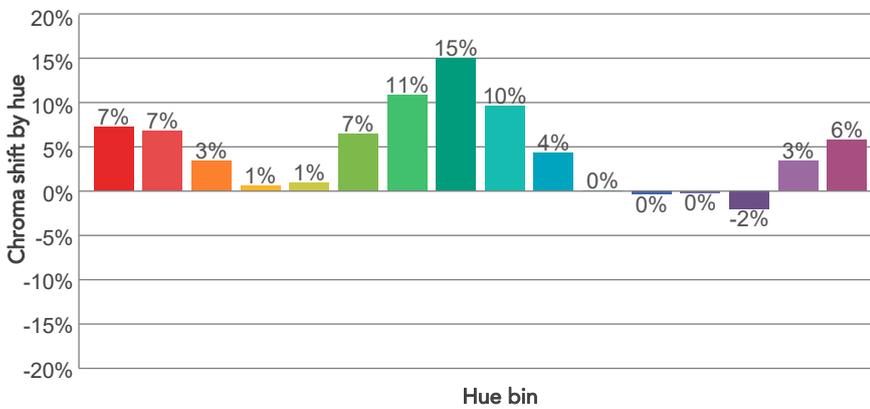
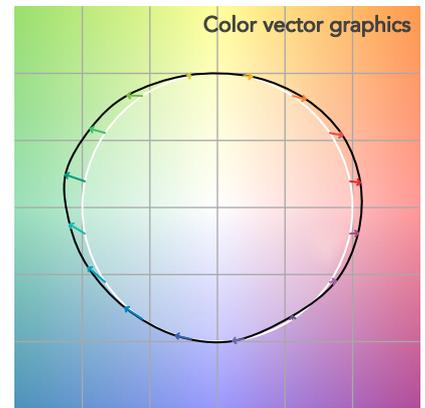
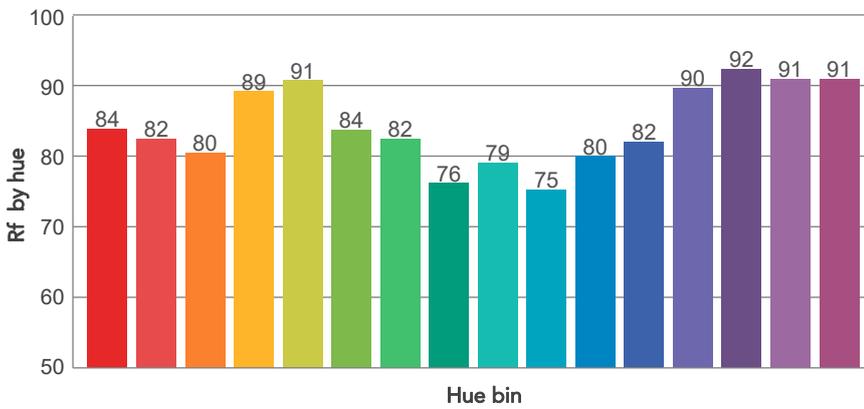
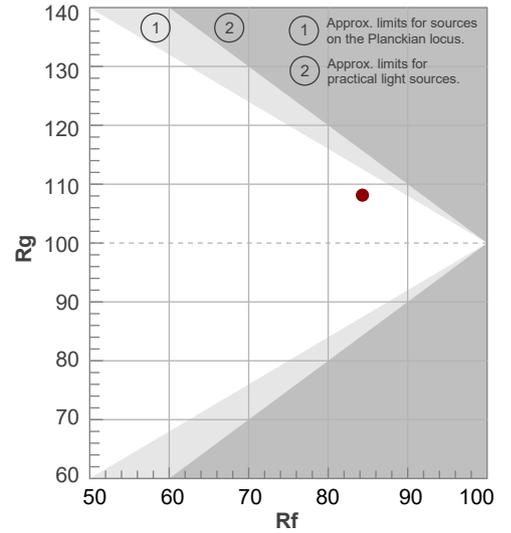
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
2812 K	78,7	41,0	84,3	108,1	81,0	55	0,454	0,414	0,0016

# TM30 DETAILS

**Rf 84,3**  
Fidelity index Rf

**Rg 108,1**  
Gammut index

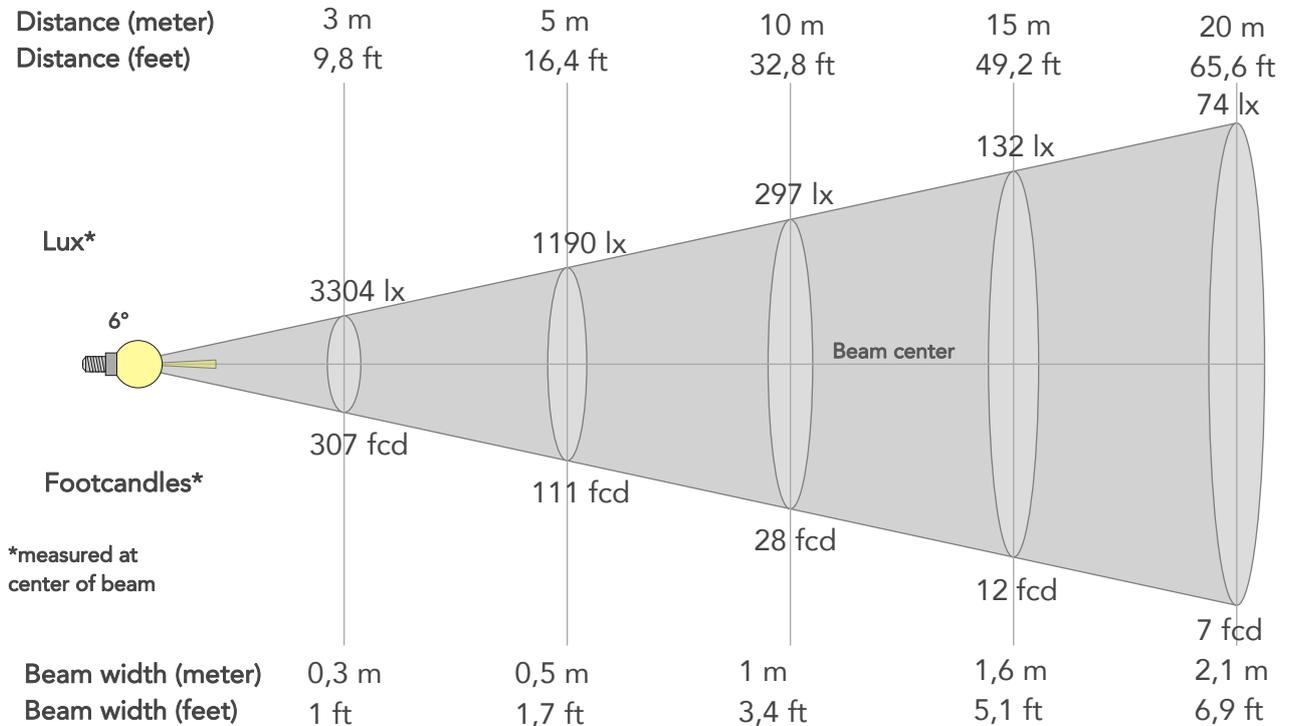
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	84	7%	-2%
2	82	7%	-7%
3	80	3%	-9%
4	89	1%	-6%
5	91	1%	2%
6	84	7%	9%
7	82	11%	3%
8	76	15%	-2%
9	79	10%	-9%
10	75	4%	-16%
11	80	0%	-15%
12	82	0%	-12%
13	90	0%	-8%
14	92	-2%	1%
15	91	3%	3%
16	91	6%	1%



# BEAM DETAILS



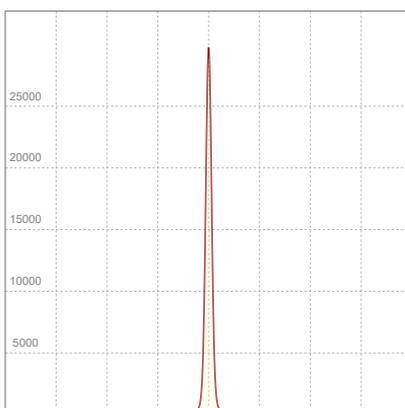
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,2°	100,0%	99,9%



## 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	29738lx	7434lx	3304lx	1859lx	1190lx	529lx	297lx	132lx	74lx	48lx	33lx	19lx	12lx
Footcand.	2763fcd	691fcd	307fcd	173fcd	111fcd	49fcd	28fcd	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	6,9ft	8,6ft	10,3ft	13,7ft	17,1ft

## LINEAR DISTRIBUTION DIAGRAM

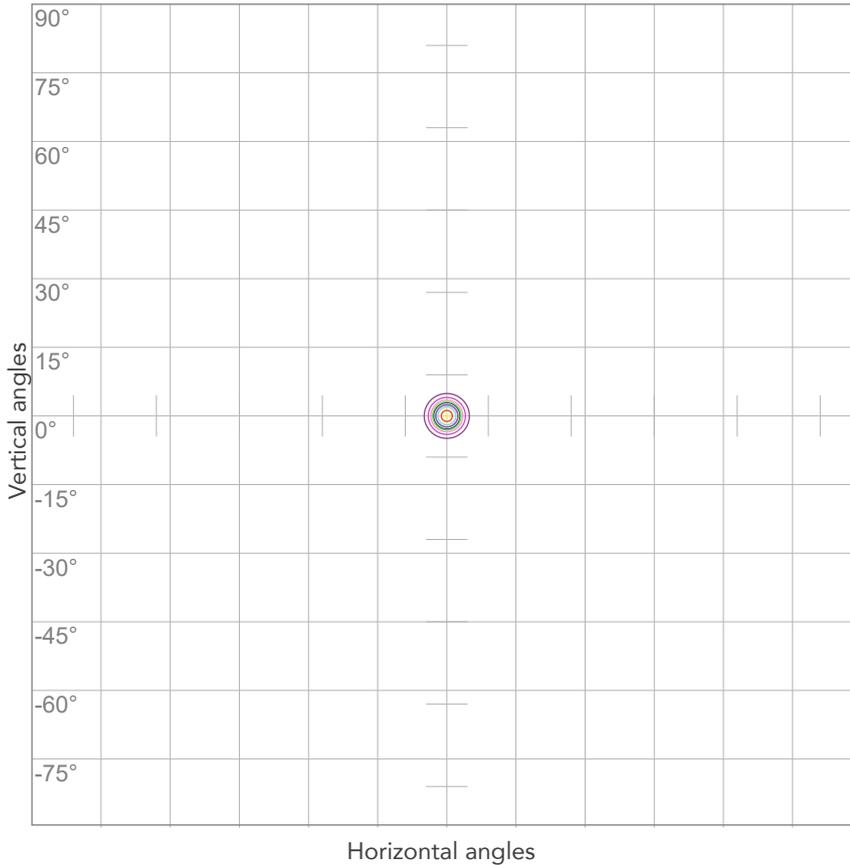


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,154A	17,0W	0,48	30lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



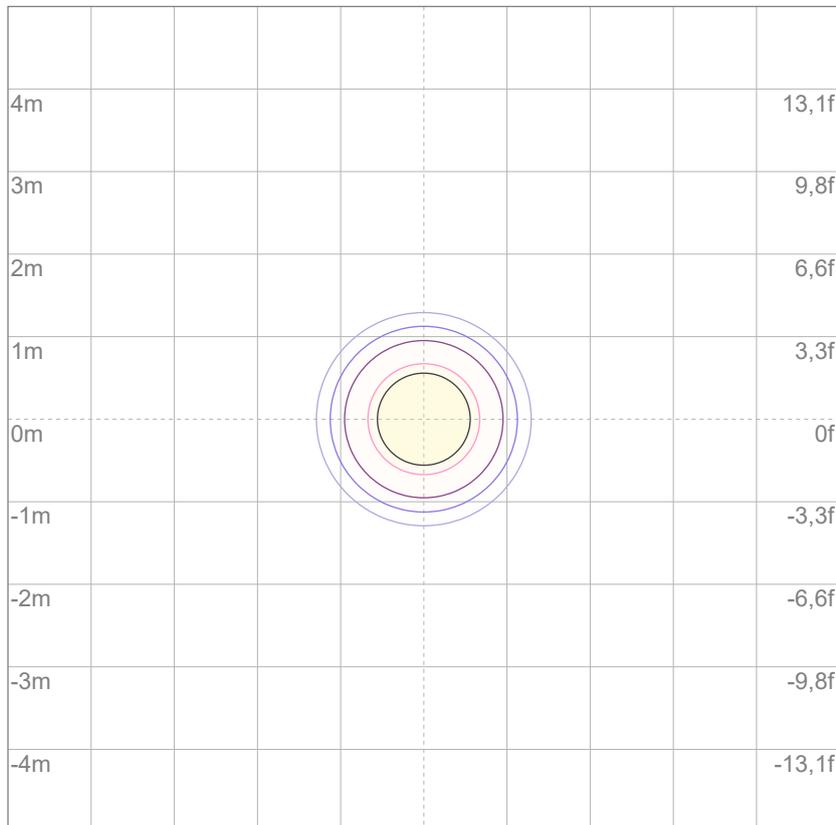
10%	2974 cd
20%	5948 cd
30%	8921 cd
40%	11895 cd
50%	14869 cd
60%	17843 cd
70%	20816 cd
80%	23790 cd

Conditions:

Number of c-planes: 2

Candela at center: 29738 cd

## ISO LUX DIAGRAM



3%	8,92 lx
5%	14,9 lx
10%	29,7 lx
30%	89,2 lx
50%	149 lx

Conditions:

Number of c-planes: 2

Lux at center: 297 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:

460 lm

Peak candela output:

25153 cd

Light quality:

CRI: 94,2

Color temperature:

3223 K

**PRODUCT NAME:**

ECLPARDOTFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Original Optic

Target:

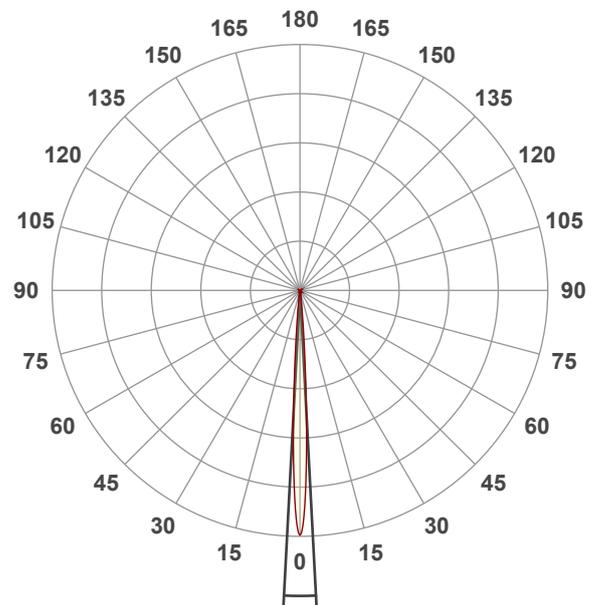
3200K - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:48:55

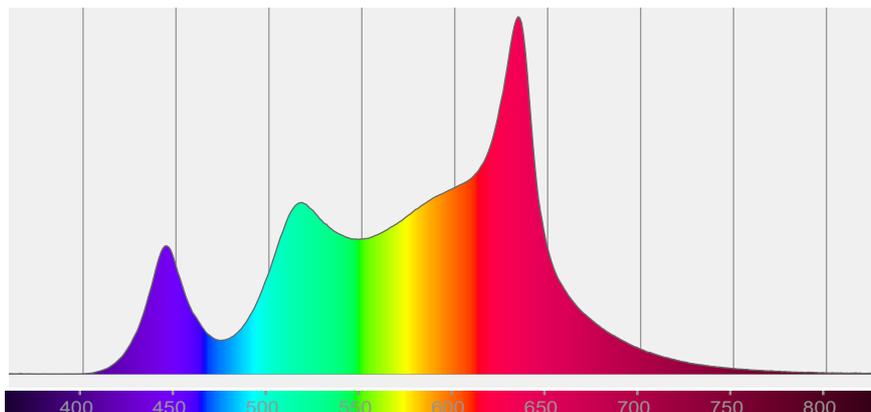


Beam angle 50%: 6°

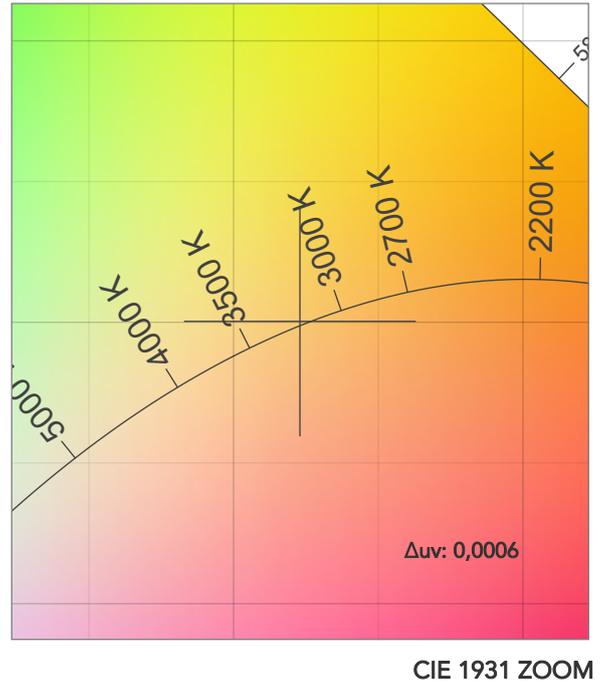
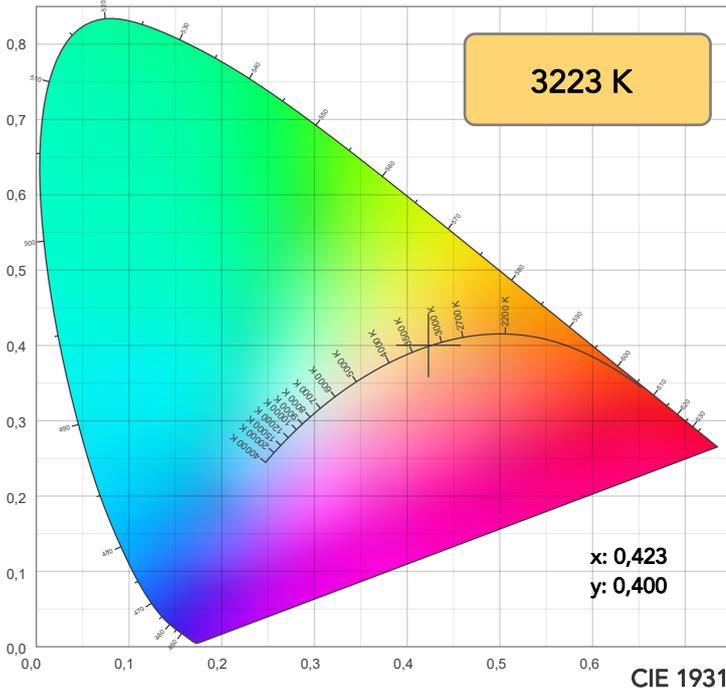
Field angle 10%: 11,4°

Cut off angle 2.5%: 16,2°

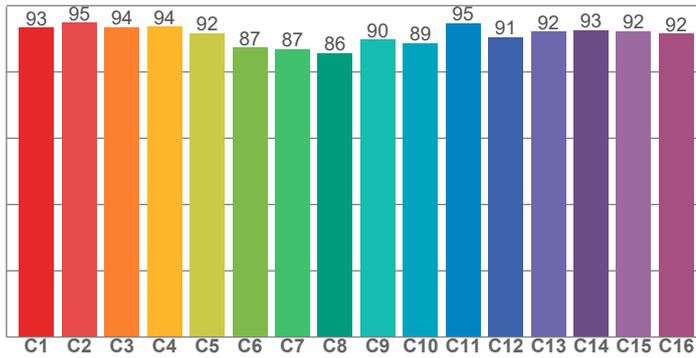
Spectra



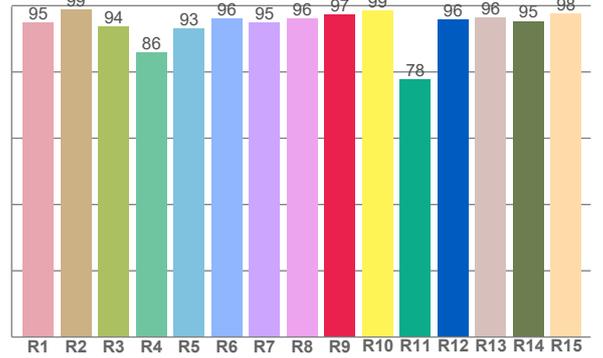
# COLOR DETAILS



TM30: 91,7



CRI: 94,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,8	98,8	93,8	85,9	93,2	96,1	94,9	96,0	97,2	98,5	77,9	95,8	96,5	95,4	97,7

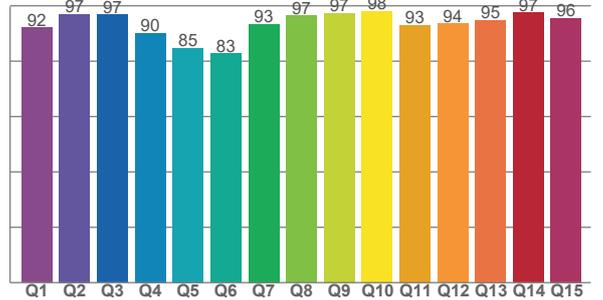
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,4	94,9	93,5	93,8	91,7	87,3	86,9	85,7	89,9	88,7	94,8	90,6	92,1	92,6	92,3	91,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	97,1	96,8	90,1	84,7	82,7	93,4	96,5	97,4	98,1	93,0	93,6	94,7	97,5	95,5

CQS: 91,9



## COLOR PARAMETERS

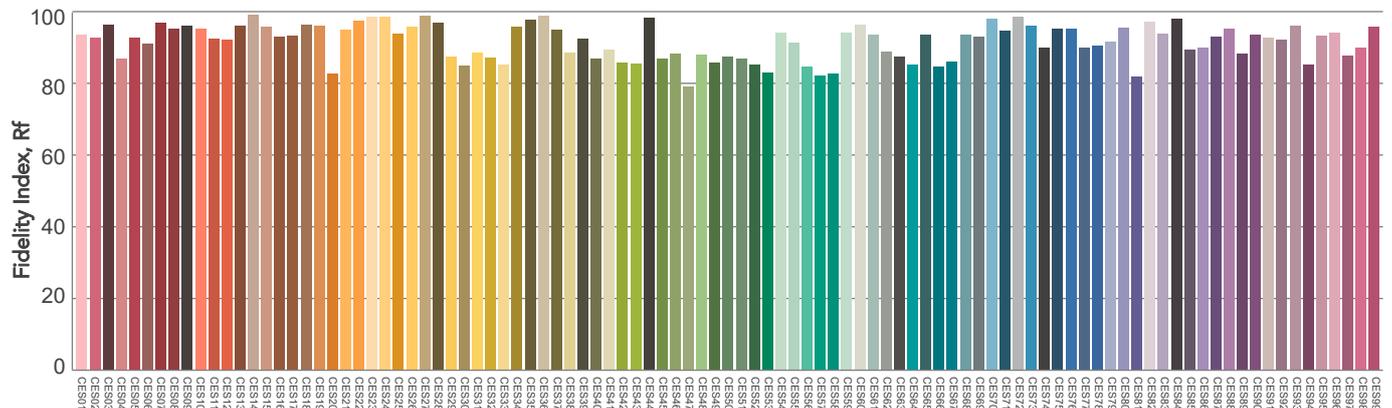
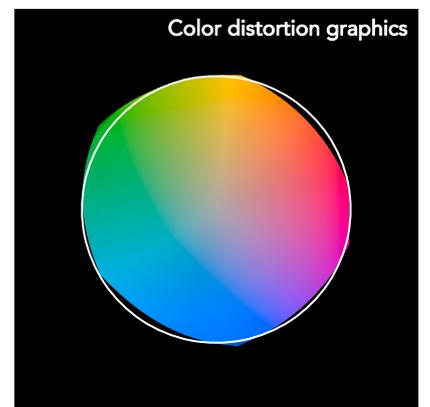
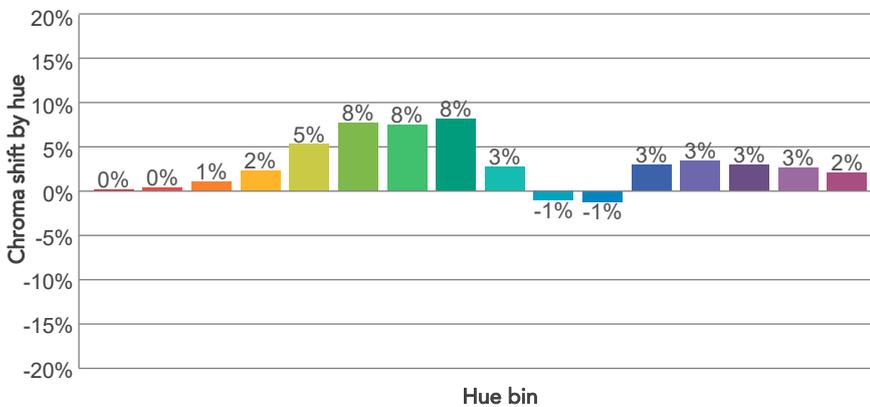
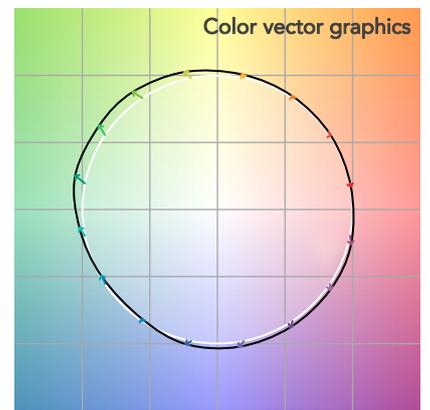
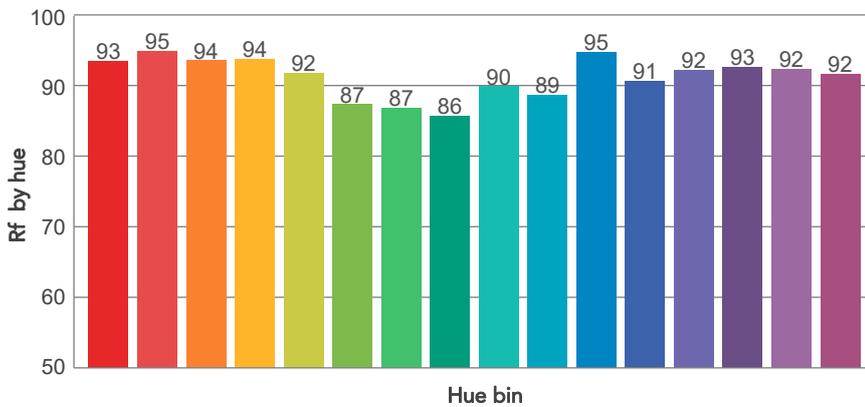
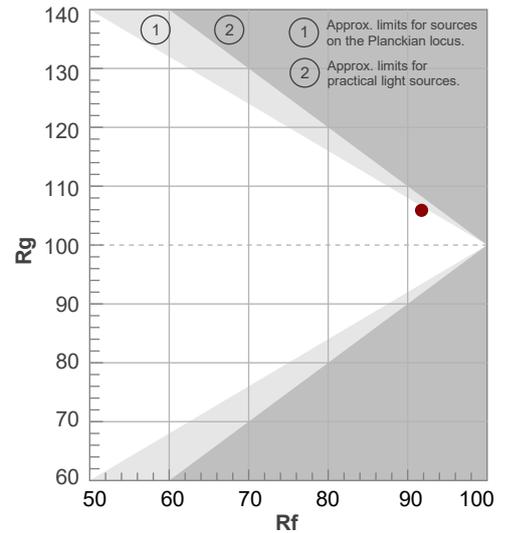
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3223 K	94,2	97,2	91,7	105,9	91,9	80	0,423	0,400	0,0006

# TM30 DETAILS

**Rf 91,7**  
Fidelity index Rf

**Rg 105,9**  
Gammut index

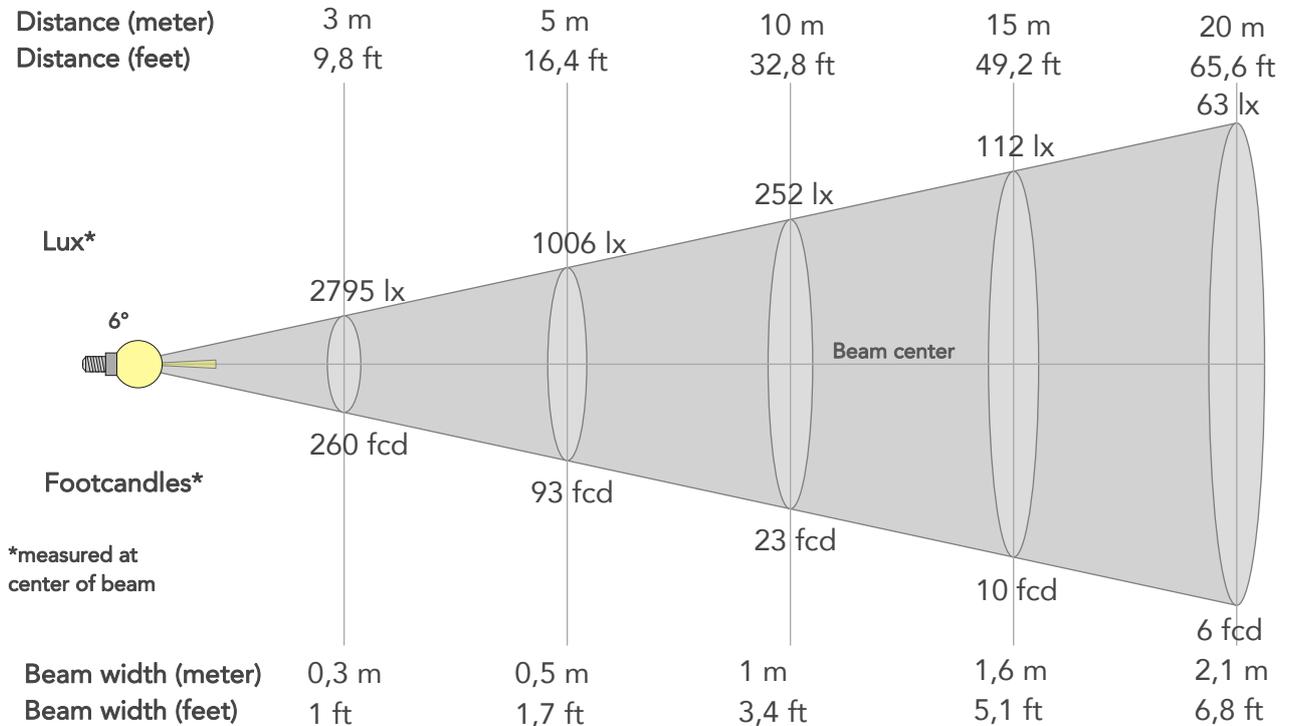
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	93	0%	-3%
2	95	0%	0%
3	94	1%	1%
4	94	2%	2%
5	92	5%	4%
6	87	8%	4%
7	87	8%	-4%
8	86	8%	-4%
9	90	3%	-6%
10	89	-1%	-7%
11	95	-1%	-1%
12	91	3%	-3%
13	92	3%	-4%
14	93	3%	-4%
15	92	3%	-3%
16	92	2%	-6%



# BEAM DETAILS



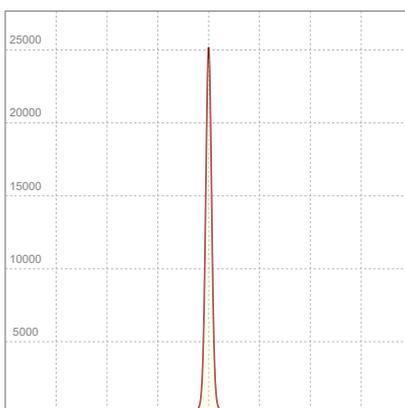
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,2°	99,4%	97,6%



## 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	25153lx	6288lx	2795lx	1572lx	1006lx	447lx	252lx	112lx	63lx	40lx	28lx	16lx	10lx
Footcand.	2337fcd	584fcd	260fcd	146fcd	93fcd	42fcd	23fcd	10fcd	6fcd	4fcd	3fcd	1fcd	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	10,2ft	13,6ft	17,1ft

## LINEAR DISTRIBUTION DIAGRAM

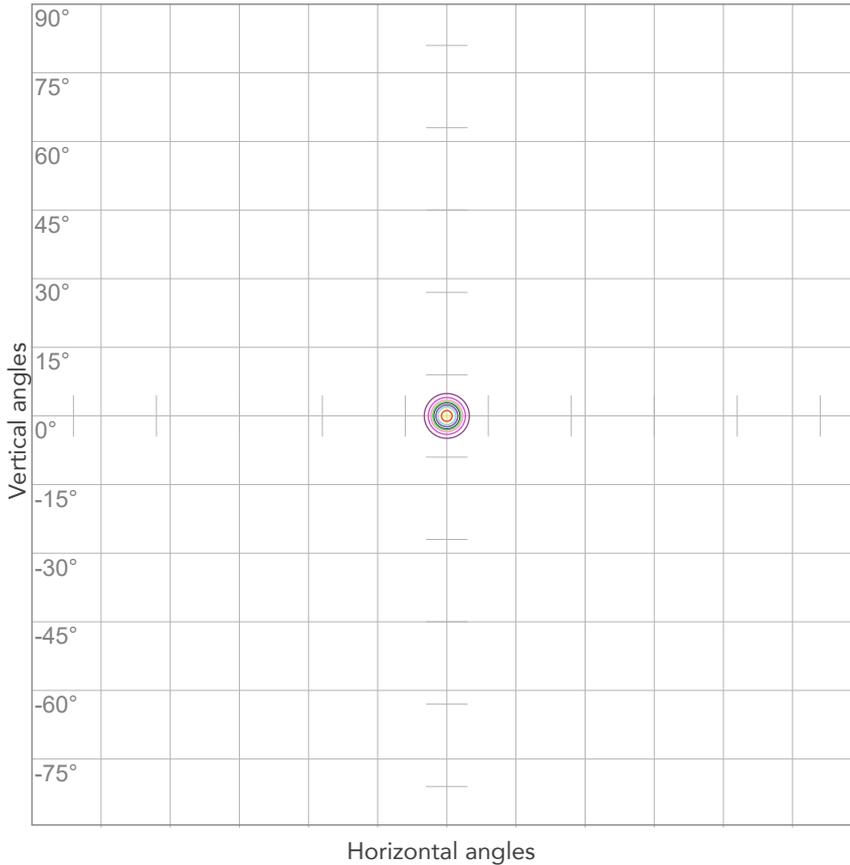


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
227V	0,129A	14,7W	0,5	31lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



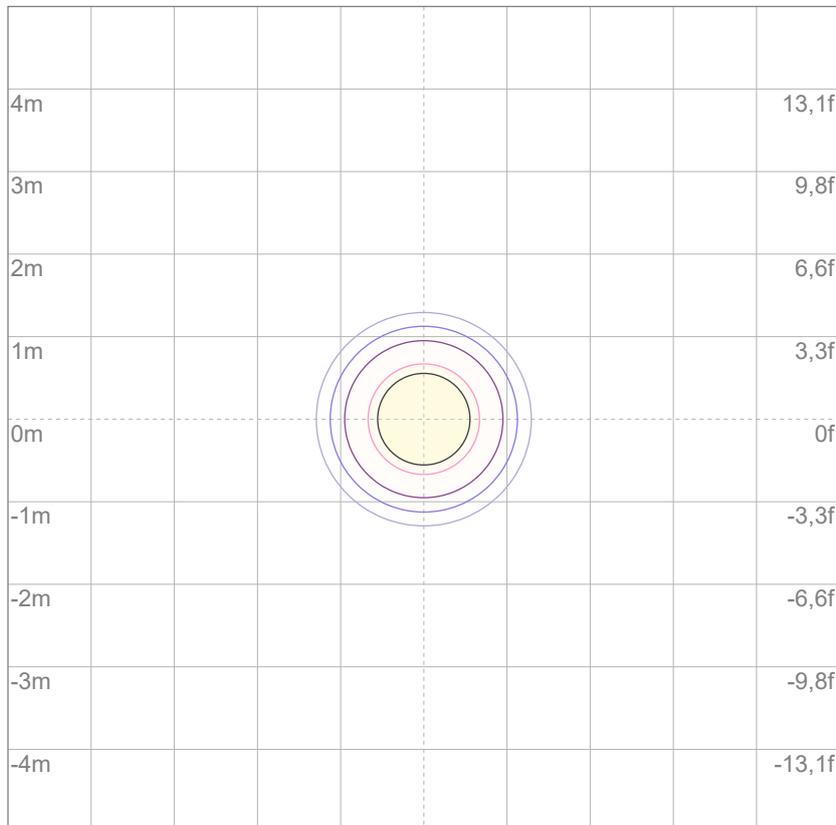
10%	2515 cd
20%	5031 cd
30%	7546 cd
40%	10061 cd
50%	12576 cd
60%	15092 cd
70%	17607 cd
80%	20122 cd

Conditions:

Number of c-planes: 2

Candela at center: 25153 cd

## ISO LUX DIAGRAM



3%	7,55 lx
5%	12,6 lx
10%	25,2 lx
30%	75,5 lx
50%	126 lx

Conditions:

Number of c-planes: 2

Lux at center: 252 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:

483 lm

Peak candela output:

26283 cd

Light quality:

CRI: 93,4

Color temperature:

4030 K

**PRODUCT NAME:**

ECLPARDOTFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Original Optic

Target:

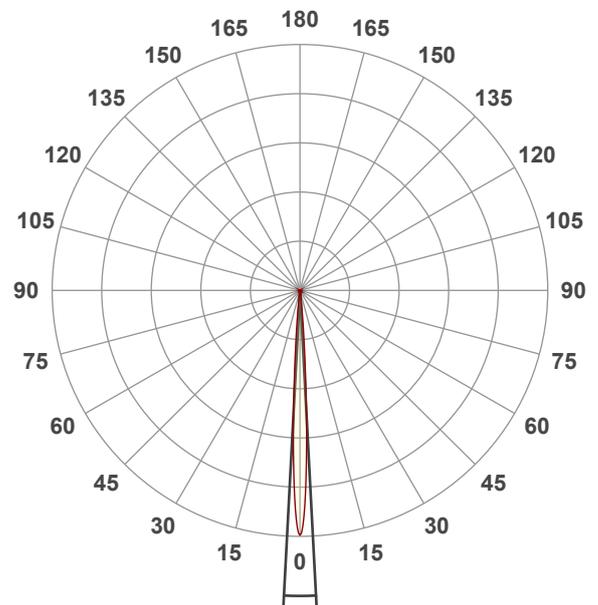
4000K - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 10:55:10

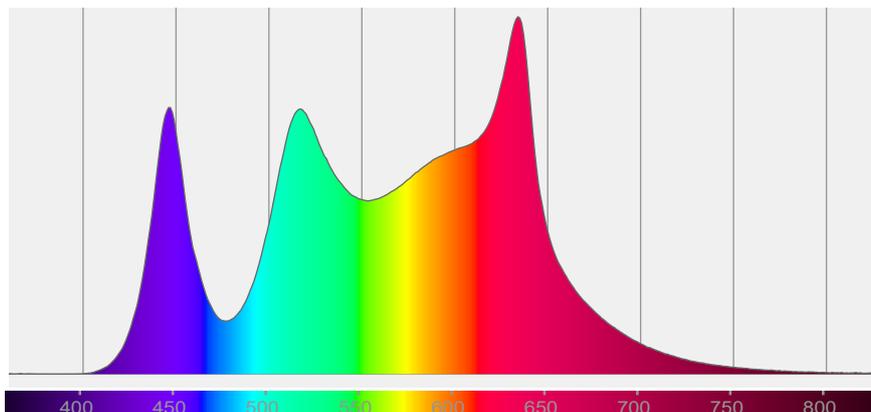


Beam angle 50%: 6°

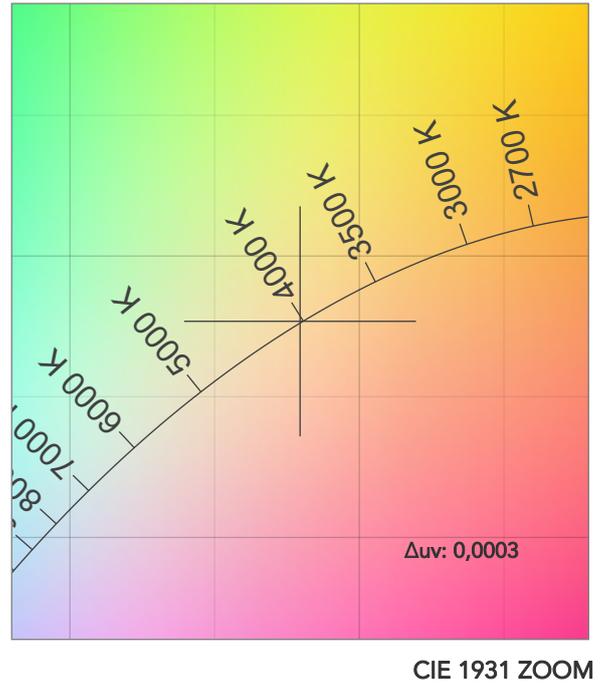
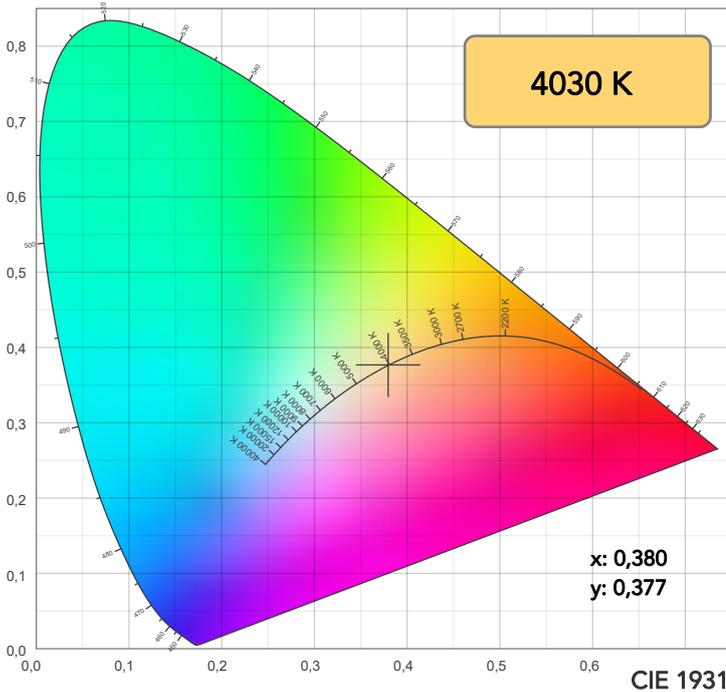
Field angle 10%: 11,4°

Cut off angle 2.5%: 16,3°

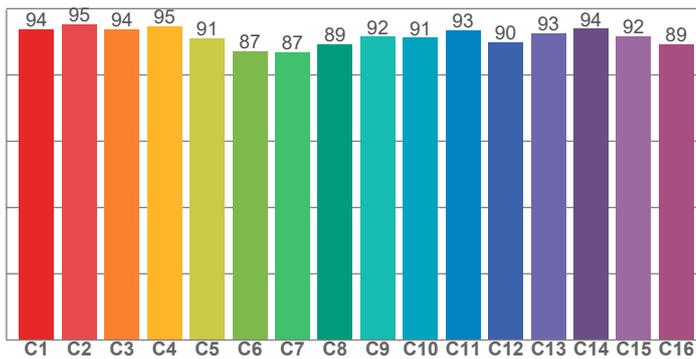
Spectra



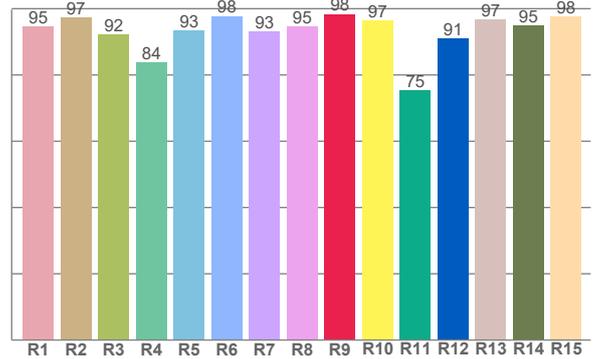
# COLOR DETAILS



**TM30: 91,9**



**CRI: 93,4 (R1-R8)**



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,7	97,4	92,2	83,8	93,4	97,8	93,2	94,7	98,4	96,5	75,3	91,1	96,7	94,9	97,6

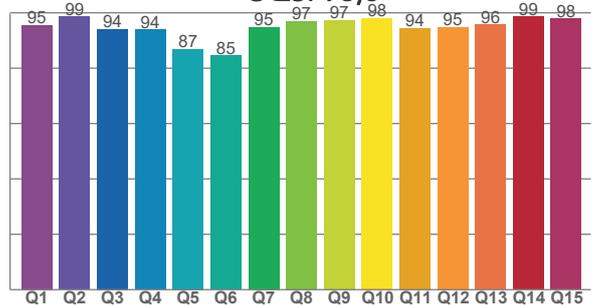
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,9	95,3	93,8	94,7	91,2	87,2	86,9	89,3	91,5	91,3	93,5	89,9	92,7	94,0	91,7	89,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	98,6	94,1	94,0	86,9	84,6	94,8	96,9	97,4	98,0	94,4	94,7	95,8	98,6	97,9

**CQS: 93,5**



## COLOR PARAMETERS

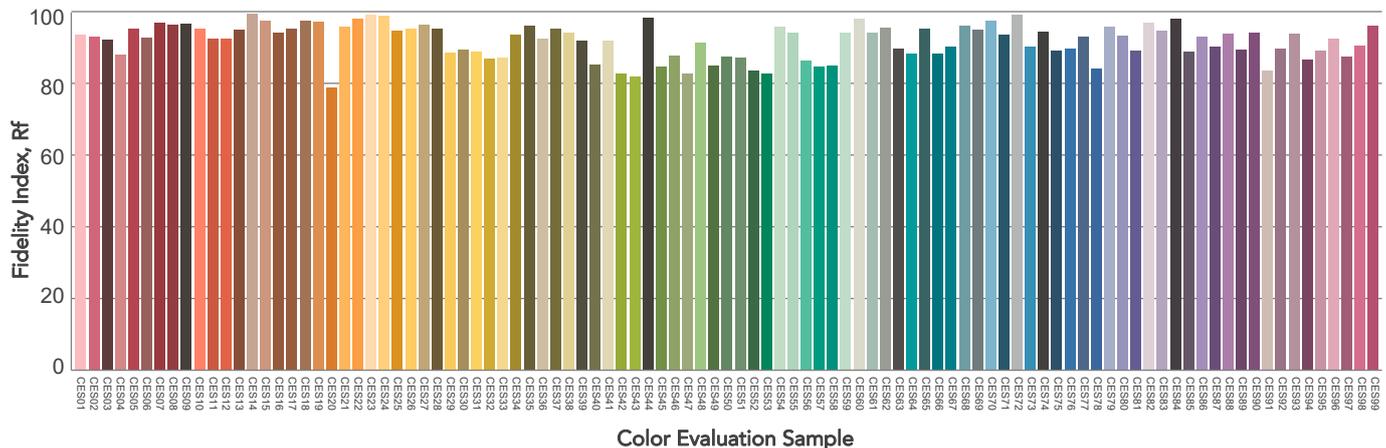
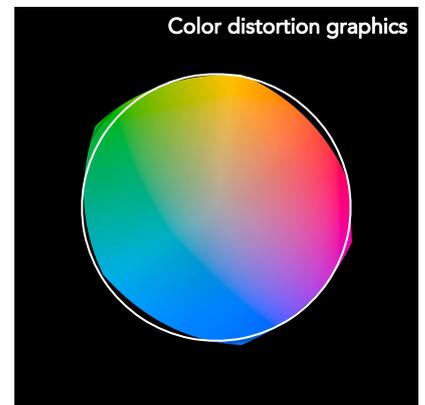
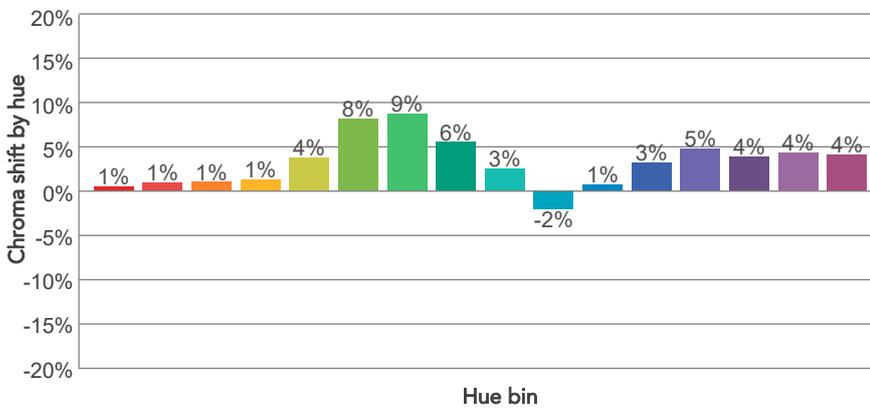
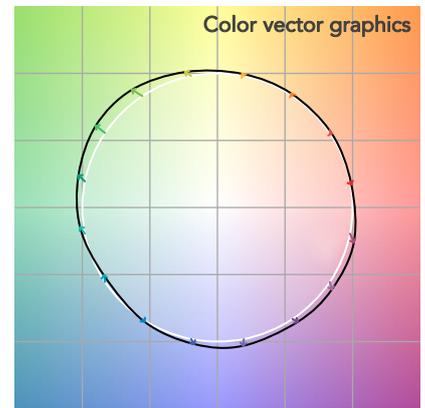
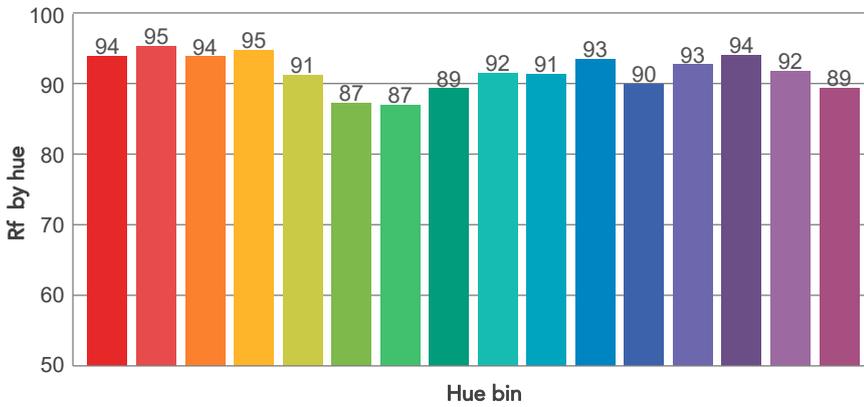
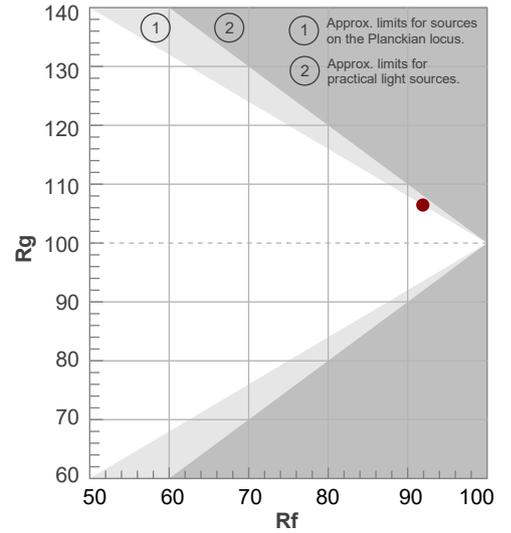
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
4030 K	93,4	98,4	91,9	106,5	93,5	78	0,380	0,377	0,0003

# TM30 DETAILS

**Rf 91,9**  
Fidelity index Rf

**Rg 106,5**  
Gammut index

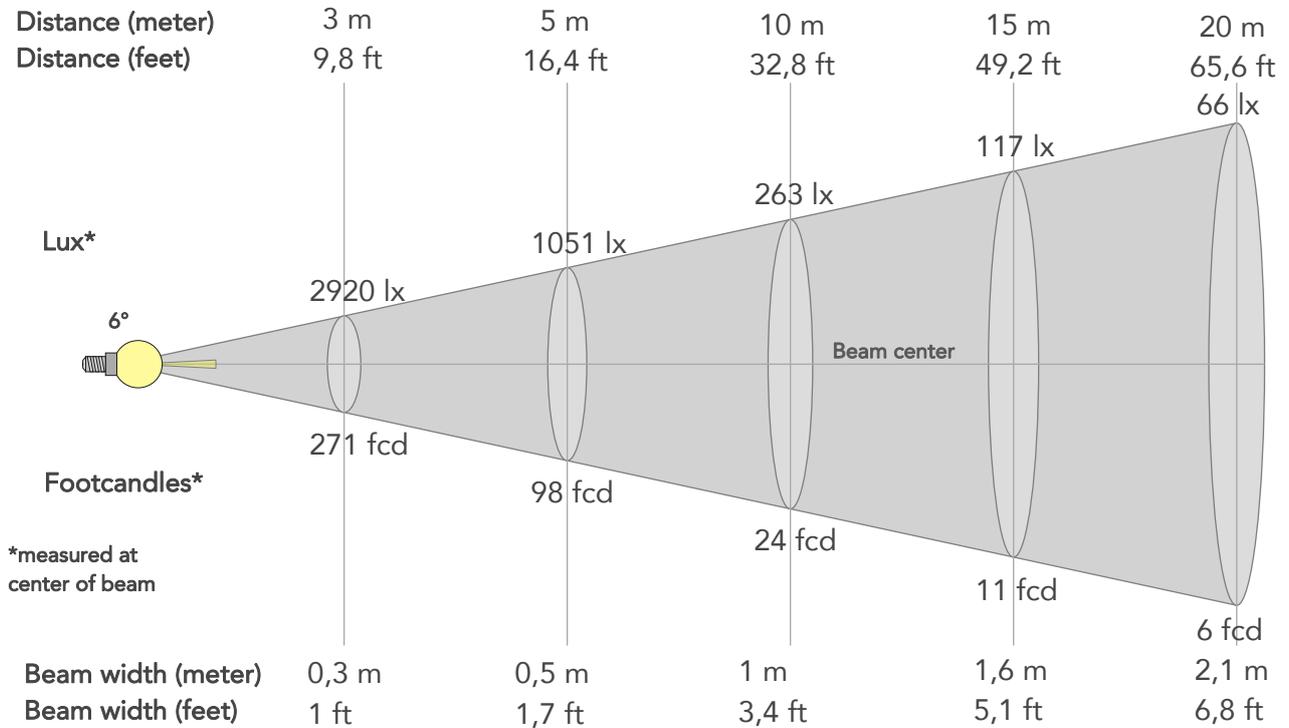
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	-1%
3	94	1%	2%
4	95	1%	2%
5	91	4%	4%
6	87	8%	4%
7	87	9%	-1%
8	89	6%	-4%
9	92	3%	-5%
10	91	-2%	-5%
11	93	1%	2%
12	90	3%	3%
13	93	5%	-1%
14	94	4%	2%
15	92	4%	-4%
16	89	4%	-6%



# BEAM DETAILS



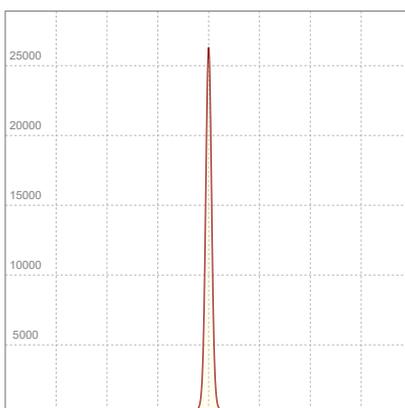
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,3°	99,3%	97,5%



## 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	26283lx	6571lx	2920lx	1643lx	1051lx	467lx	263lx	117lx	66lx	42lx	29lx	16lx	11lx
Footcand.	2442fcd	610fcd	271fcd	153fcd	98fcd	43fcd	24fcd	11fcd	6fcd	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

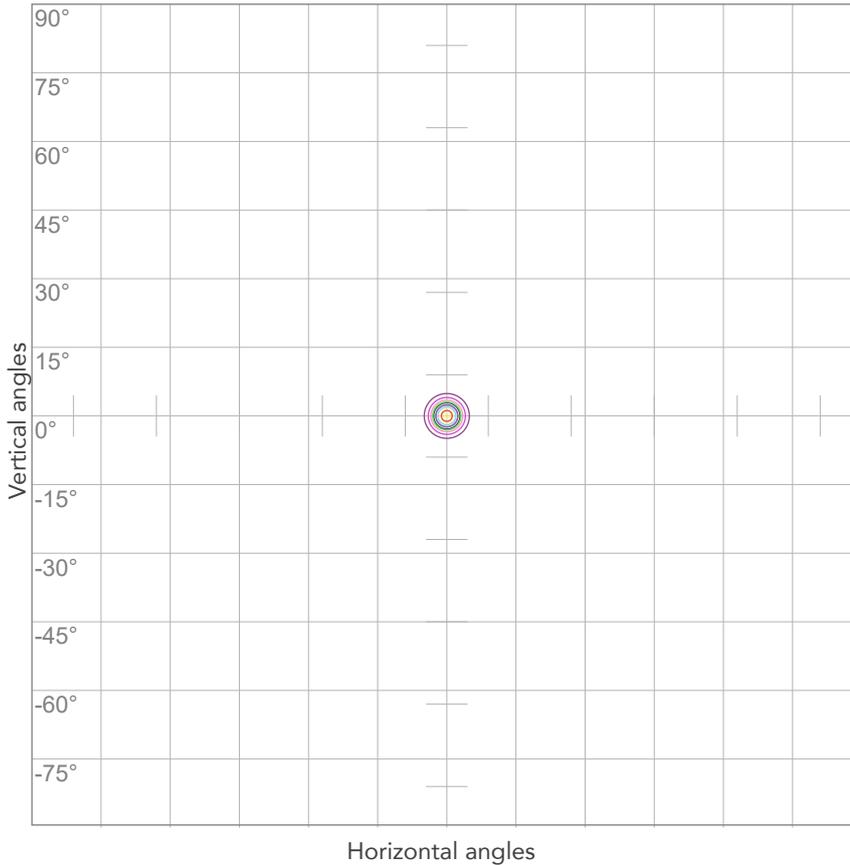


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
228V	0,144A	15,6W	0,47	31lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



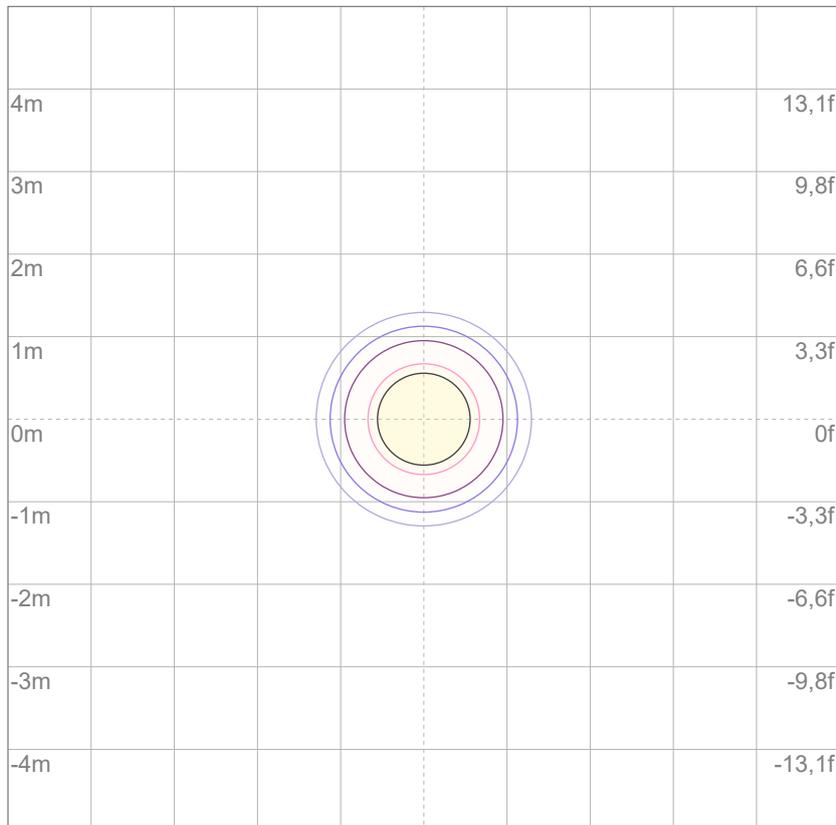
10%	2628 cd
20%	5257 cd
30%	7885 cd
40%	10513 cd
50%	13142 cd
60%	15770 cd
70%	18398 cd
80%	21027 cd

Conditions:

Number of c-planes: 2

Candela at center: 26283 cd

## ISO LUX DIAGRAM



3%	7,88 lx
5%	13,1 lx
10%	26,3 lx
30%	78,8 lx
50%	131 lx

Conditions:

Number of c-planes: 2

Lux at center: 263 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:

520 lm

Peak candela output:

28081 cd

Light quality:

CRI: 91,1

Color temperature:

5616 K

**PRODUCT NAME:**

ECLPARDOTFC

**MEASURAMENT CONDITIONS:**

Beam angle:

Original Optic

Target:

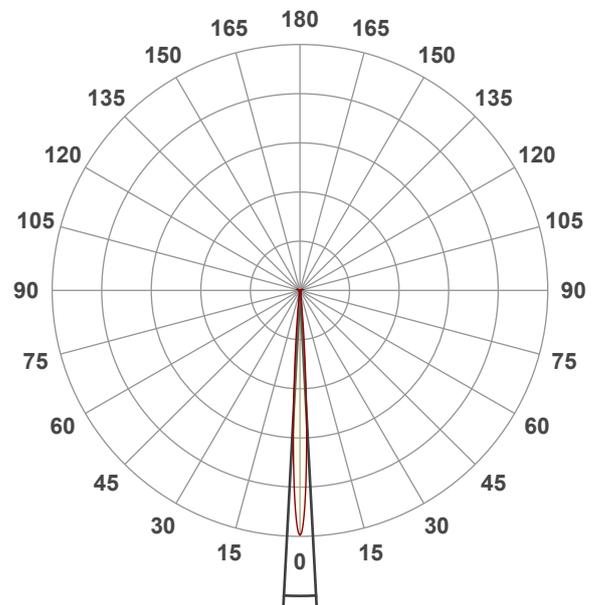
5600K - HQ

Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 11:12:14

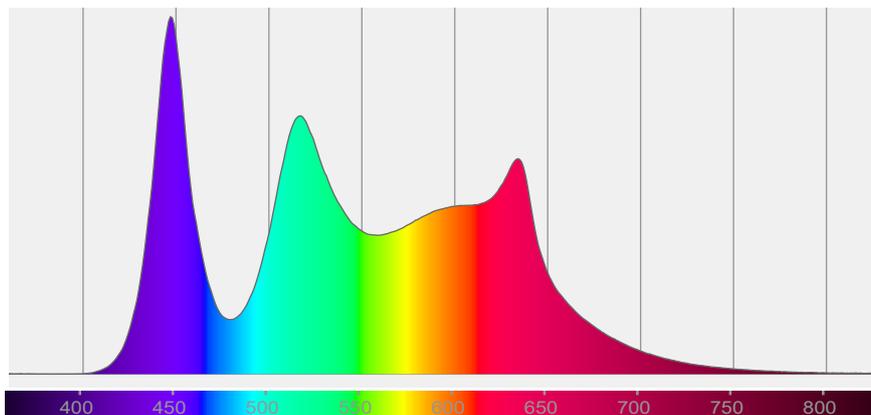


Beam angle 50%: 6°

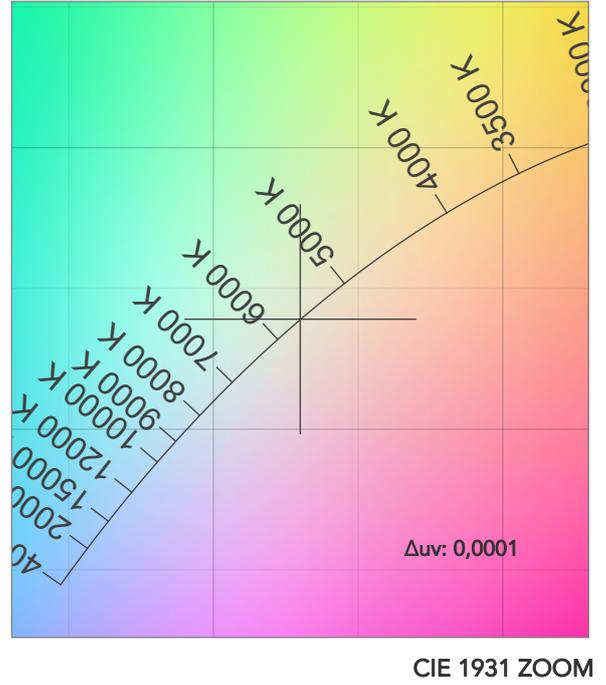
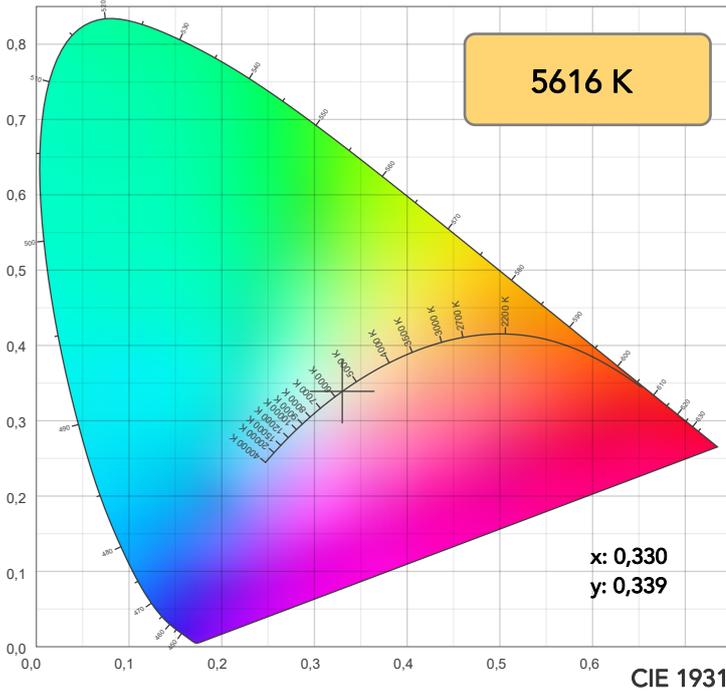
Field angle 10%: 11,4°

Cut off angle 2.5%: 16,3°

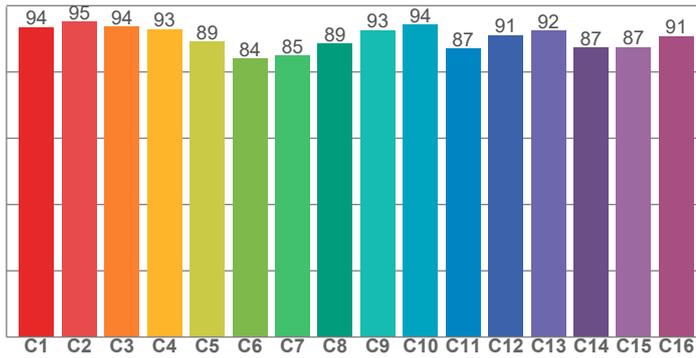
Spectra



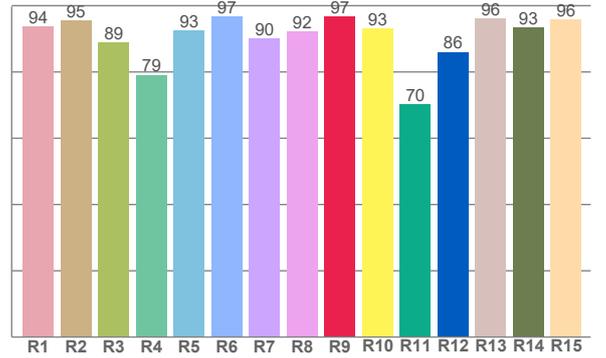
# COLOR DETAILS



**TM30: 90,3**



**CRI: 91,1 (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
93,7	95,5	88,9	79,1	92,6	96,6	90,0	92,1	96,6	93,0	70,1	86,1	96,1	93,4	95,8

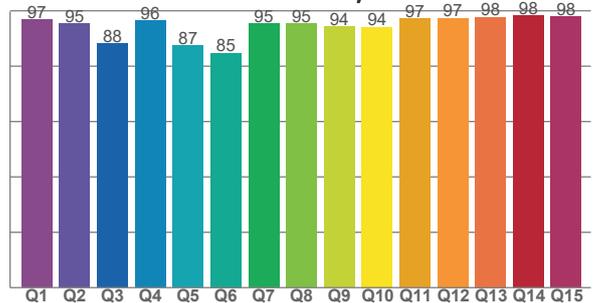
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,5	95,2	93,7	92,9	89,2	84,1	85,0	88,5	92,6	94,3	87,0	91,1	92,5	87,4	87,5	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96,7	95,3	88,1	96,4	87,5	84,8	95,3	95,3	94,2	94,1	97,1	97,3	97,7	98,3	97,9

**CQS: 93,1**



## COLOR PARAMETERS

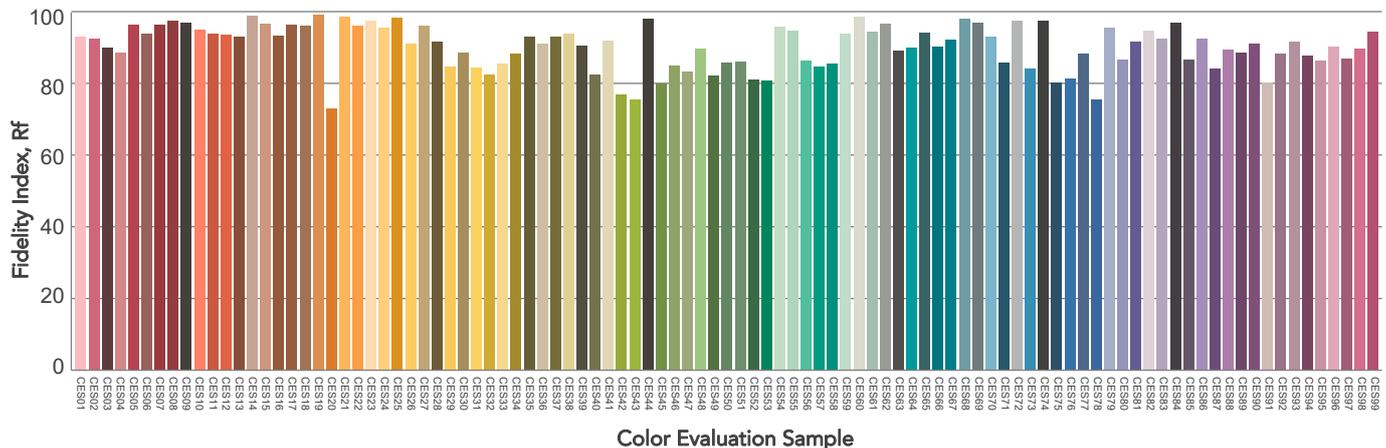
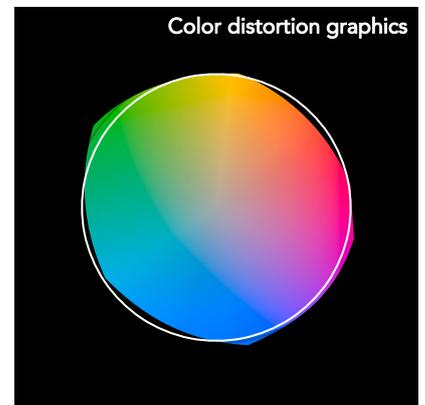
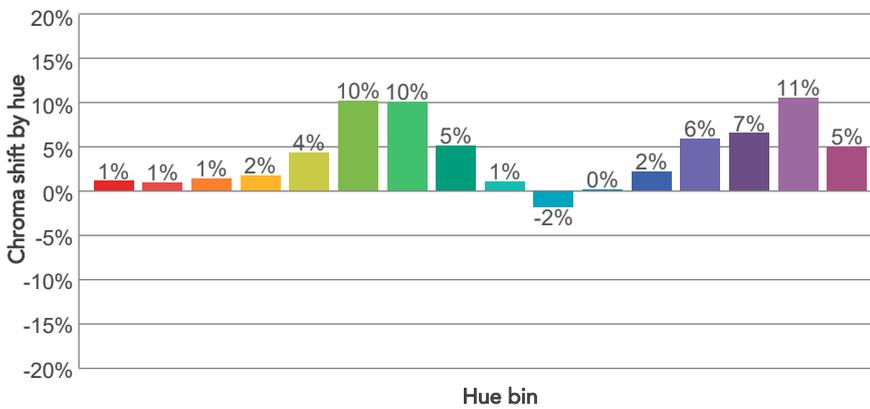
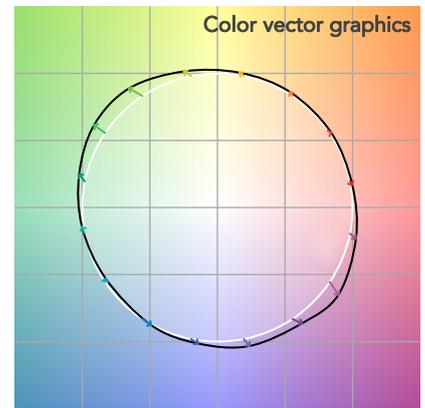
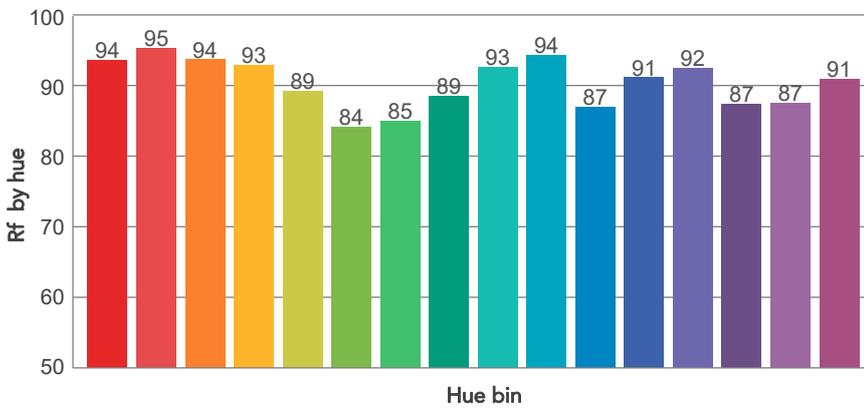
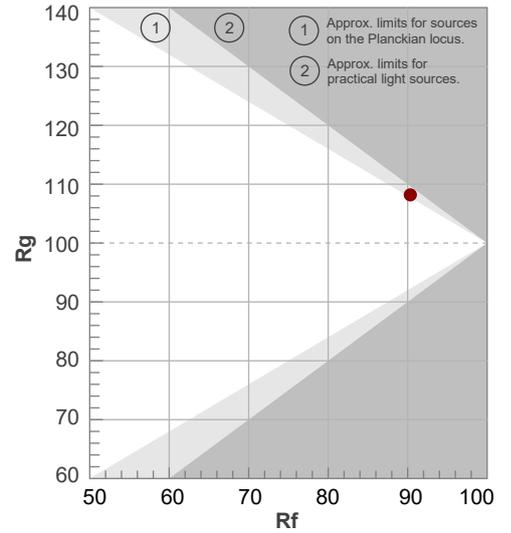
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5616 K	91,1	96,6	90,3	108,2	93,1	80	0,330	0,339	0,0001

# TM30 DETAILS

**Rf 90,3**  
Fidelity index Rf

**Rg 108,2**  
Gammut index

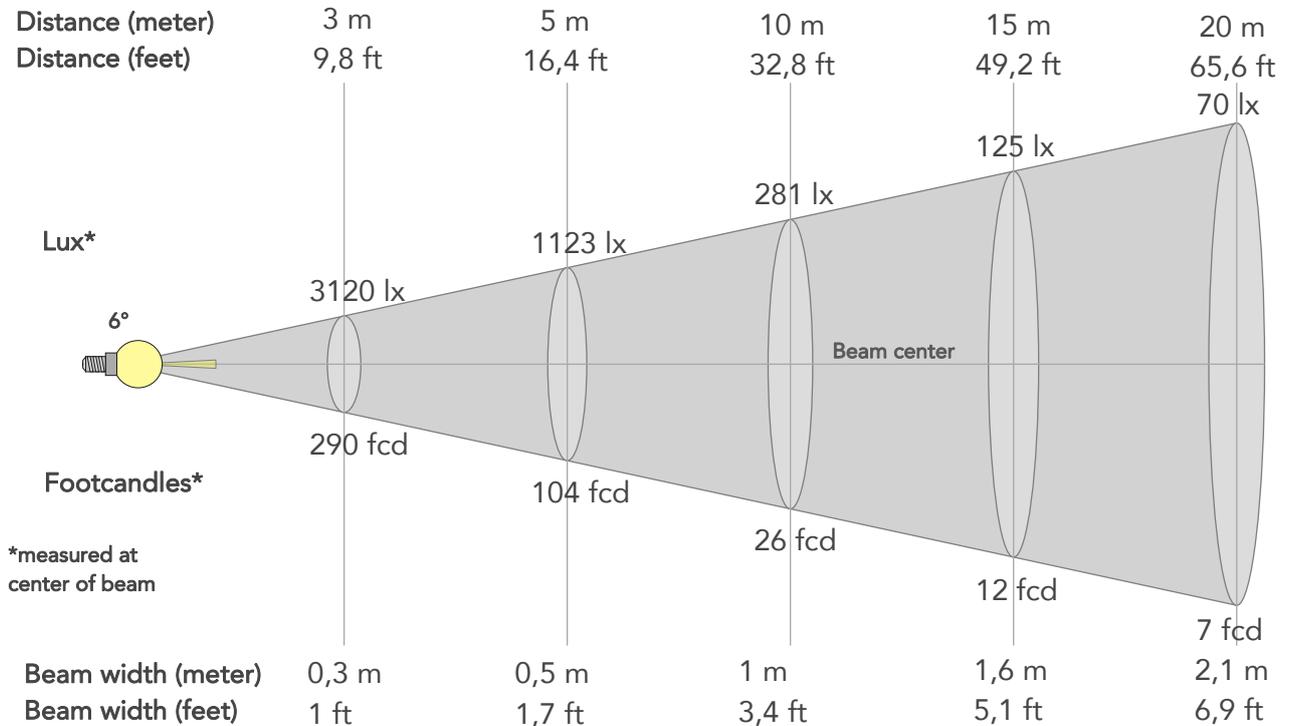
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-3%
2	95	1%	0%
3	94	1%	3%
4	93	2%	3%
5	89	4%	4%
6	84	10%	5%
7	85	10%	0%
8	89	5%	-4%
9	93	1%	-5%
10	94	-2%	-2%
11	87	0%	8%
12	91	2%	6%
13	92	6%	3%
14	87	7%	4%
15	87	11%	-4%
16	91	5%	-3%



# BEAM DETAILS



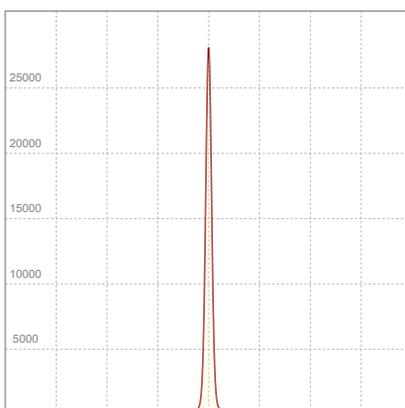
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,3°	99,3%	97,5%



## 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	28081lx	7020lx	3120lx	1755lx	1123lx	499lx	281lx	125lx	70lx	45lx	31lx	18lx	11lx
Footcand.	2609fcd	652fcd	290fcd	163fcd	104fcd	46fcd	26fcd	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	6,9ft	8,6ft	10,3ft	13,7ft	17,1ft

## LINEAR DISTRIBUTION DIAGRAM

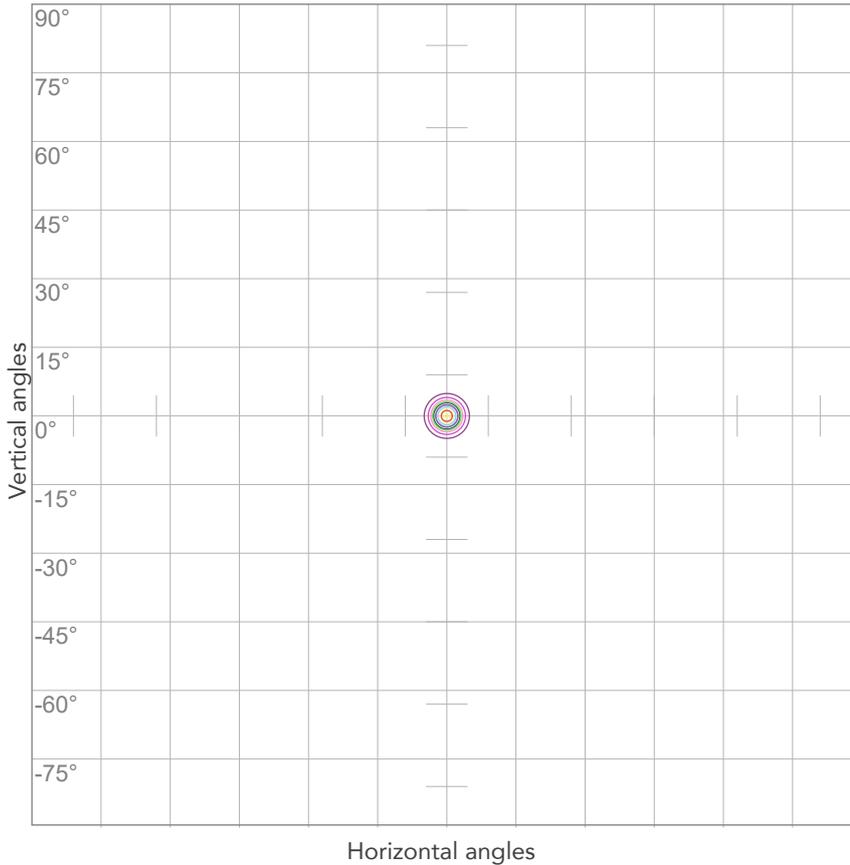


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	0,155A	16,9W	0,48	31lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



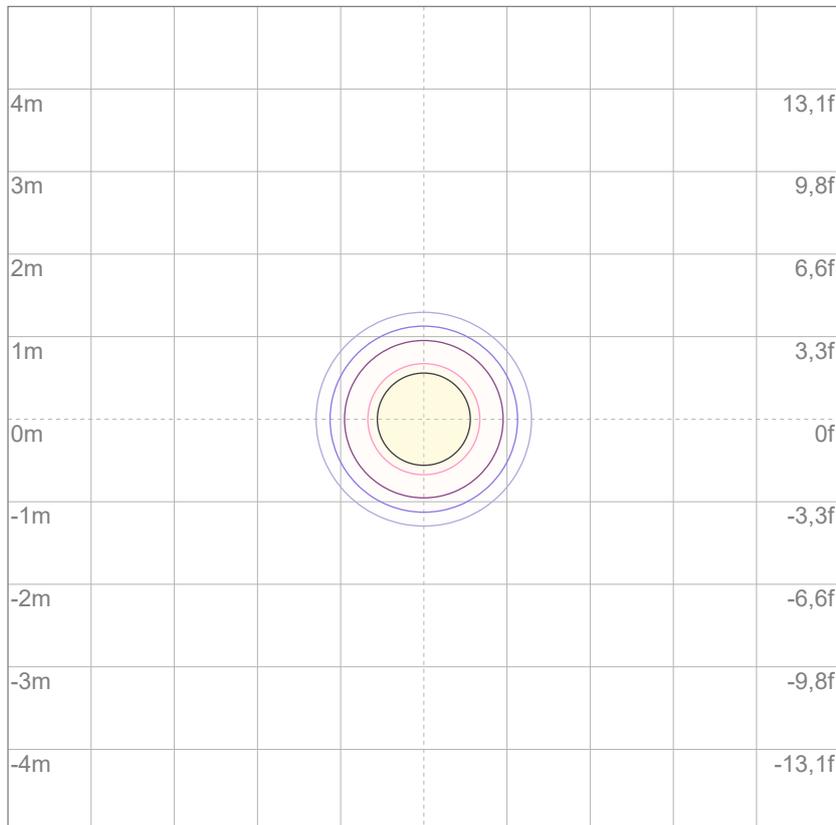
10%	2808 cd
20%	5616 cd
30%	8424 cd
40%	11232 cd
50%	14040 cd
60%	16848 cd
70%	19656 cd
80%	22464 cd

Conditions:

Number of c-planes: 2

Candela at center: 28081 cd

## ISO LUX DIAGRAM



3%	8,42 lx
5%	14,0 lx
10%	28,1 lx
30%	84,2 lx
50%	140 lx

Conditions:

Number of c-planes: 2

Lux at center: 281 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:

528 lm

Peak candela output:

28465 cd

Light quality:

CRI: 90,9

Color temperature:

6039 K

PRODUCT NAME:

ECLPARDOTFC

MEASUREMENT CONDITIONS:

Beam angle:

Original Optic

Target:

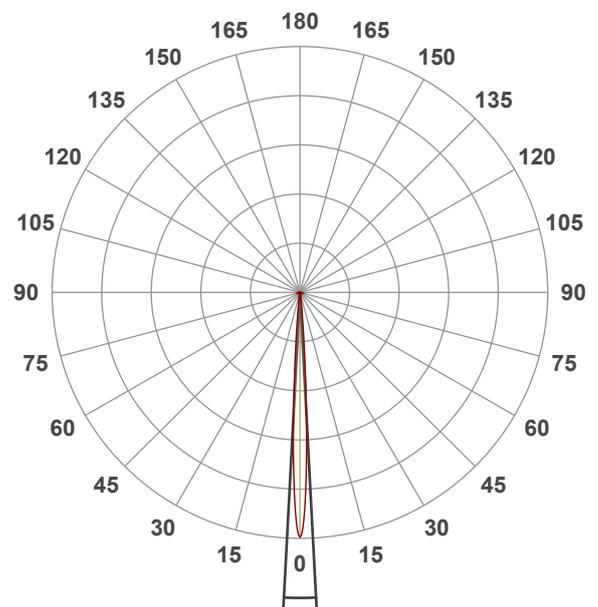
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Operator:

Giuseppe della Peruta

Date and time:

06/02/2026 11:18:59

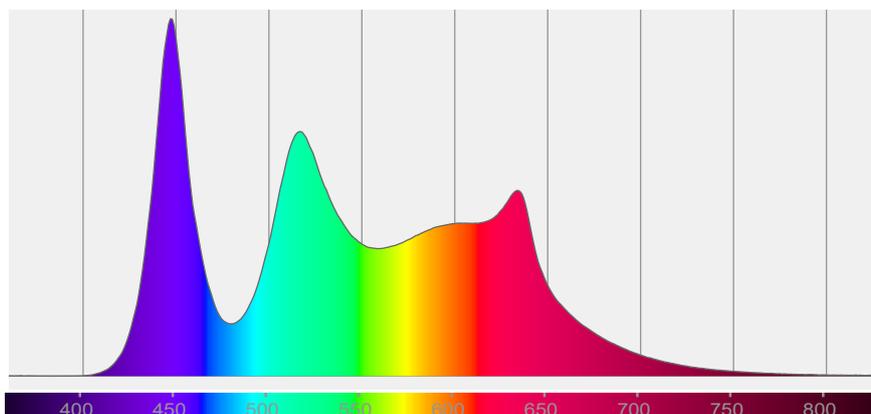


Beam angle 50%: 6°

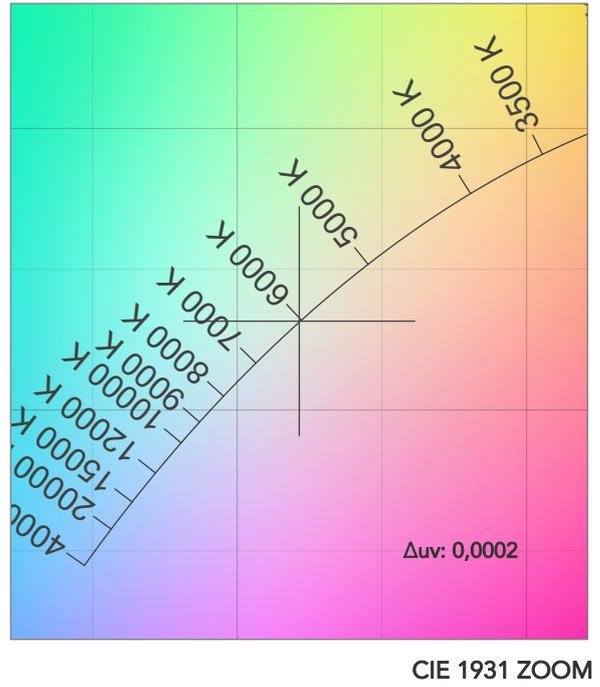
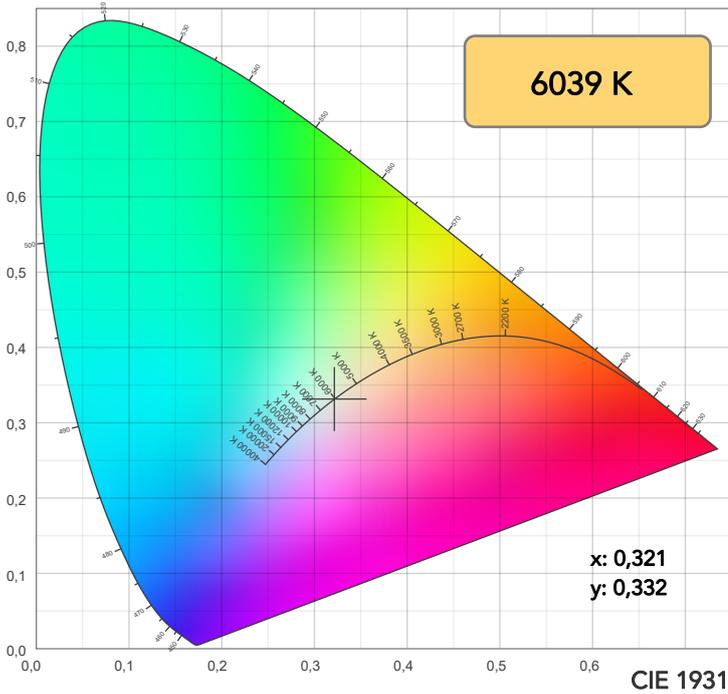
Field angle 10%: 11,4°

Cut off angle 2.5%: 16,3°

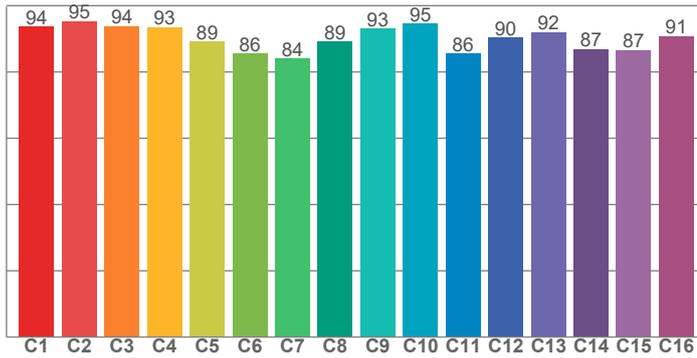
Spectra



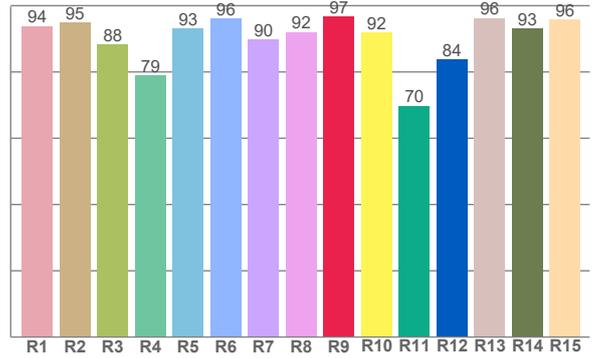
# COLOR DETAILS



**TM30: 90,3**



**CRI: 90,9 (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
93,9	95,0	88,2	78,9	93,0	96,1	89,9	92,1	96,8	92,0	69,8	83,8	96,3	93,0	95,9

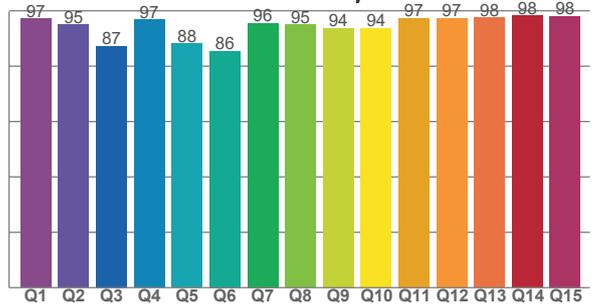
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93,6	95,3	93,8	93,5	89,2	85,5	84,0	89,2	93,0	94,7	85,6	90,3	92,0	86,9	86,6	90,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,2	95,0	87,2	96,8	88,2	85,5	95,6	95,0	93,7	93,7	97,3	97,4	97,6	98,3	98,1

**CQS: 93,1**



## COLOR PARAMETERS

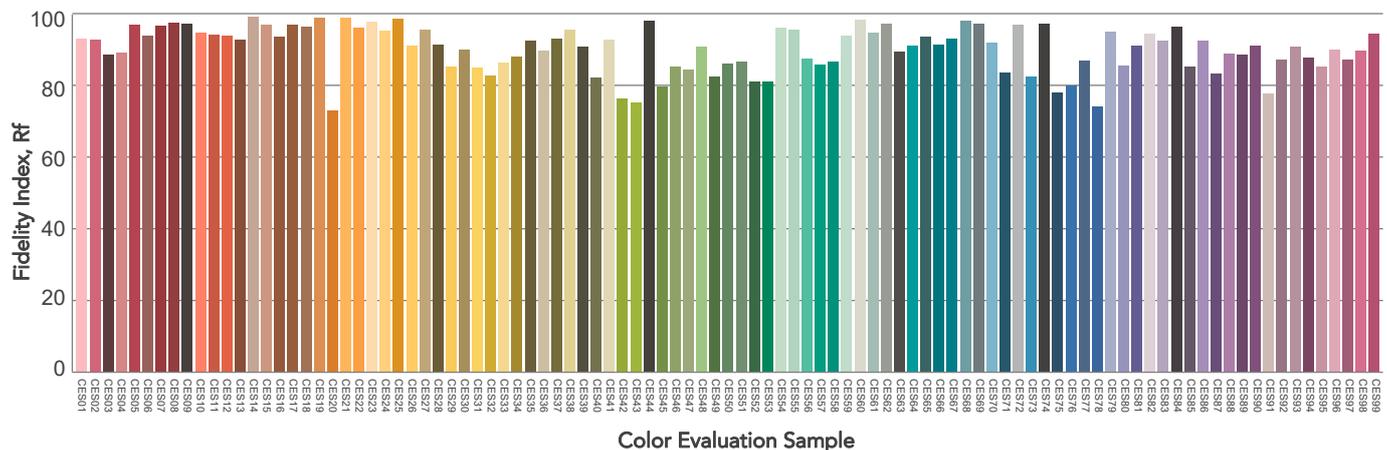
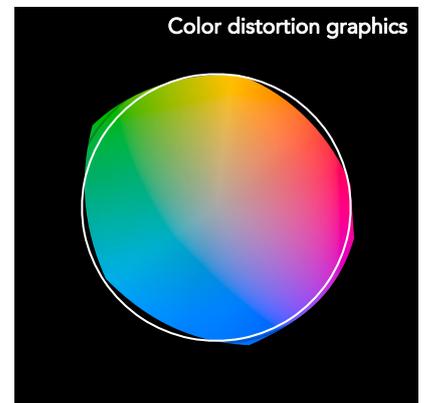
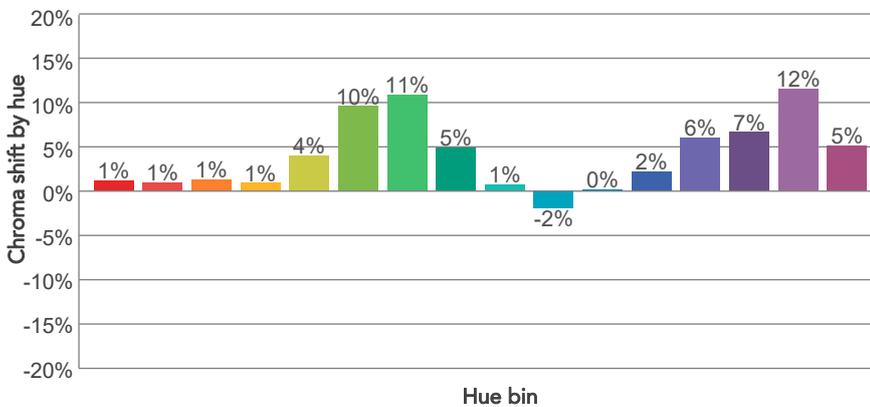
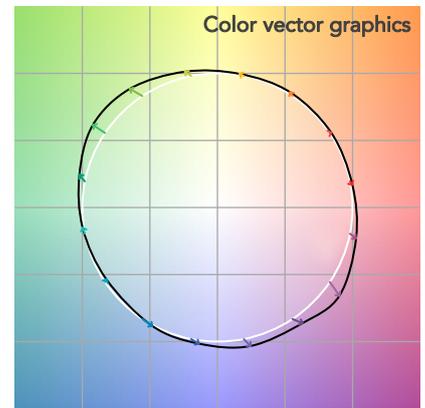
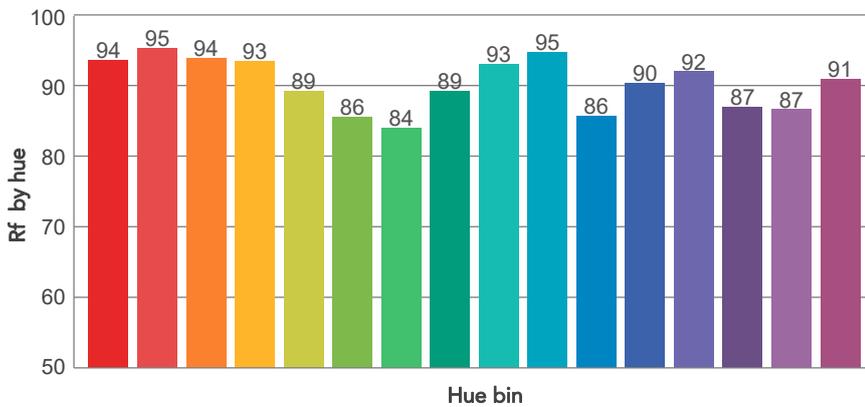
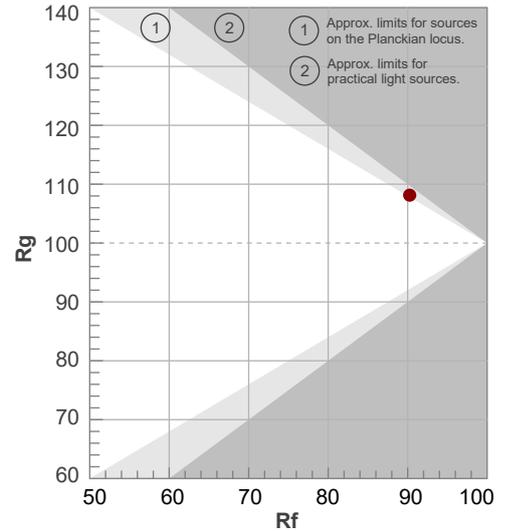
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6039 K	90,9	96,8	90,3	108,1	93,1	81	0,321	0,332	0,0002

# TM30 DETAILS

**Rf 90,3**  
Fidelity index Rf

**Rg 108,1**  
Gammut index

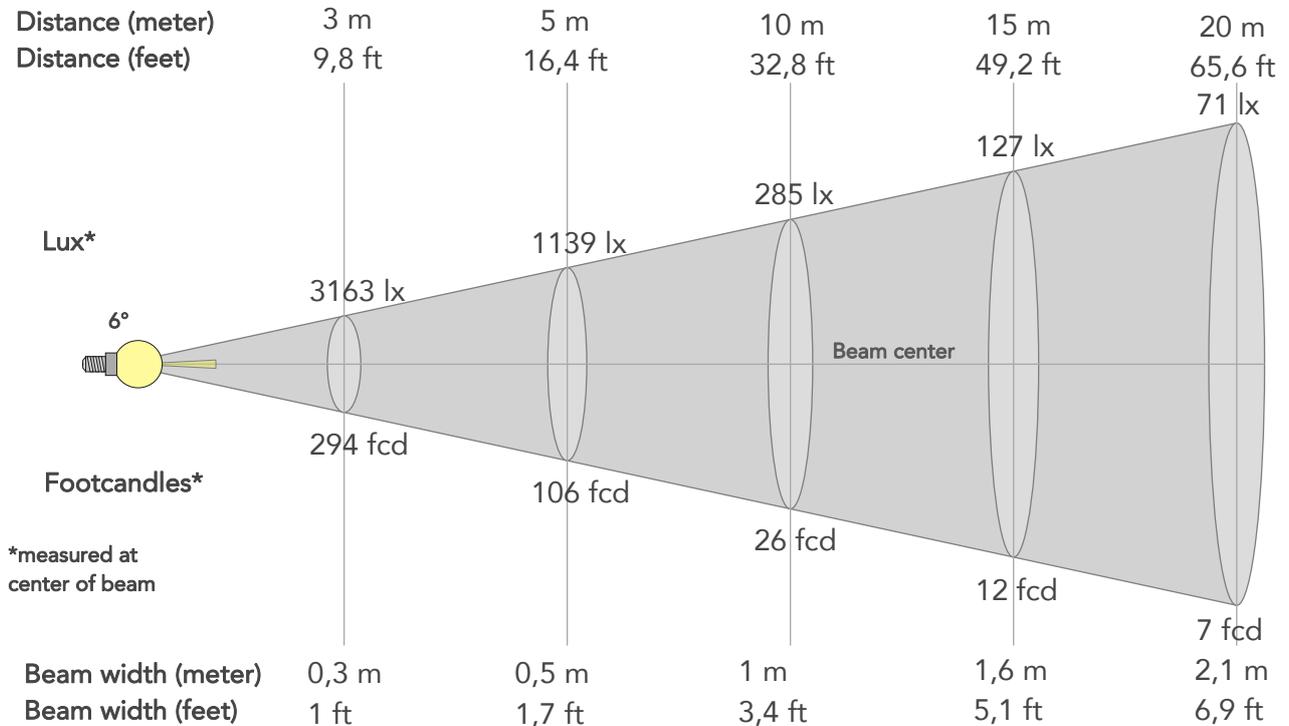
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-3%
2	95	1%	0%
3	94	1%	3%
4	93	1%	3%
5	89	4%	4%
6	86	10%	5%
7	84	11%	0%
8	89	5%	-4%
9	93	1%	-5%
10	95	-2%	-1%
11	86	0%	9%
12	90	2%	6%
13	92	6%	4%
14	87	7%	4%
15	87	12%	-5%
16	91	5%	-3%



# BEAM DETAILS



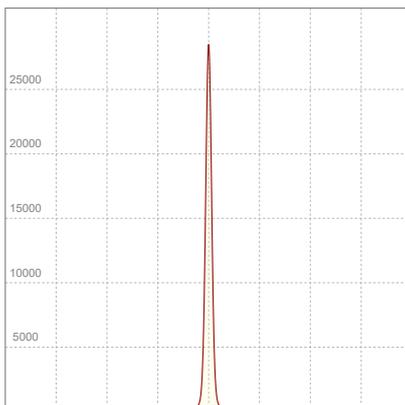
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6°	11,4°	16,3°	99,1%	97,3%



## 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	28465lx	7116lx	3163lx	1779lx	1139lx	506lx	285lx	127lx	71lx	46lx	32lx	18lx	11lx
Footcand.	2645fcd	661fcd	294fcd	165fcd	106fcd	47fcd	26fcd	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	6,9ft	8,6ft	10,3ft	13,7ft	17,1ft

## LINEAR DISTRIBUTION DIAGRAM

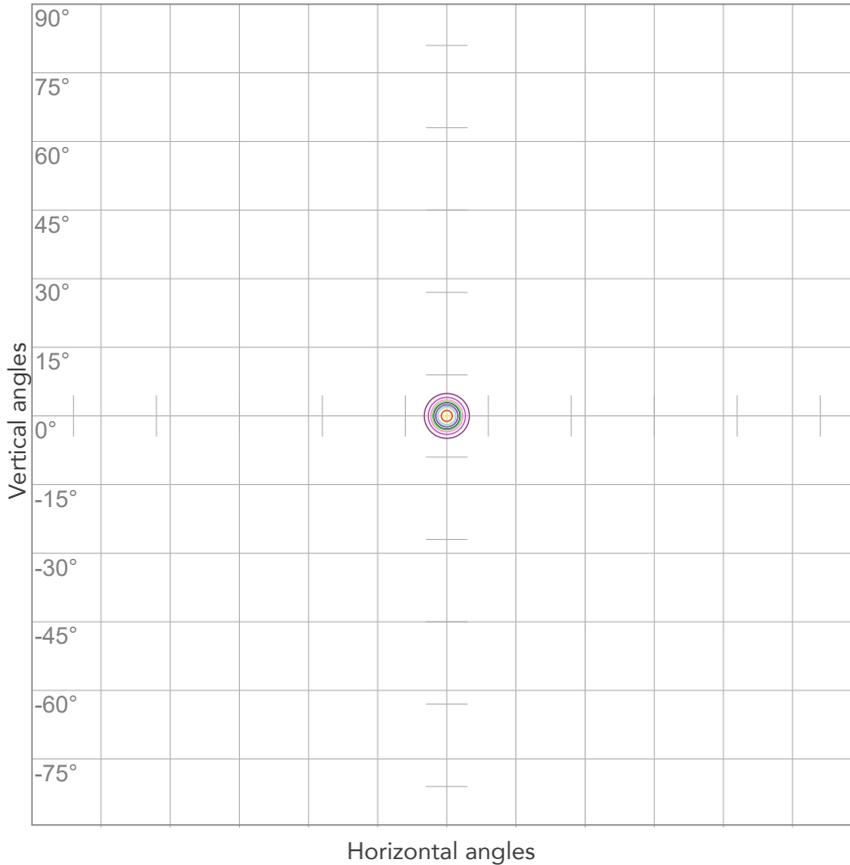


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Efficiency
229V	0,160A	17,2W	0,47	31lm/W

# ISO DIAGRAMS

## ISO CANDELA DIAGRAM



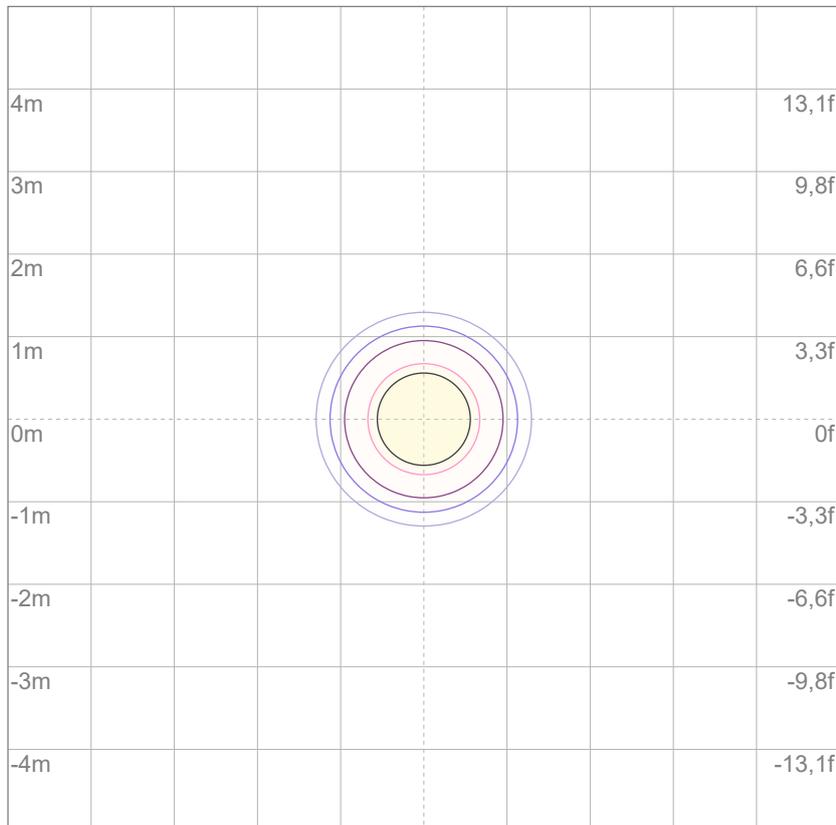
10%	2847 cd
20%	5693 cd
30%	8540 cd
40%	11386 cd
50%	14233 cd
60%	17079 cd
70%	19926 cd
80%	22772 cd

Conditions:

Number of c-planes: 2

Candela at center: 28465 cd

## ISO LUX DIAGRAM



3%	8,54 lx
5%	14,2 lx
10%	28,5 lx
30%	85,4 lx
50%	142 lx

Conditions:

Number of c-planes: 2

Lux at center: 285 lx

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

Mounting height: 10 meters (33 feet)