Photometric Test Report

ECLFWVW PRL2550

High quality Variable White LED ellipsoidal,

with linear CCT 2.700K – 5.600K

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:

7764 lm

Peak candela output:

28441 cd

Light quality:

CRI: 95,2

Color temperature:

3948 K

PRODUCT NAME:

ECLFWVW

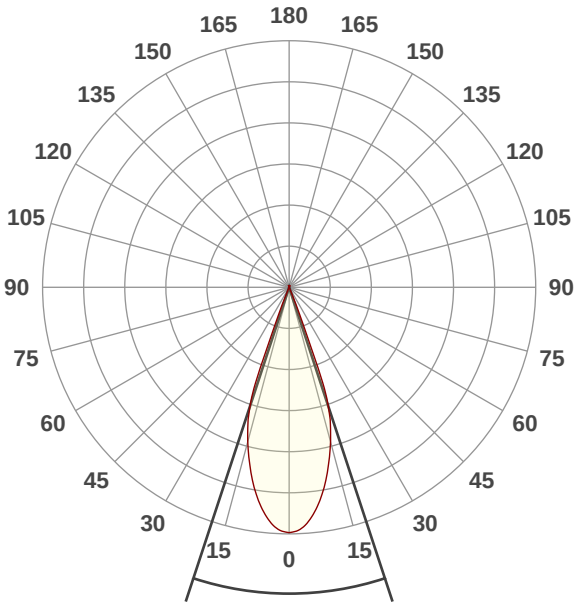
MEASURAMENT CONDITIONS:

Beam angle:
PRL25-50 Max Zoom

Target:
Full On

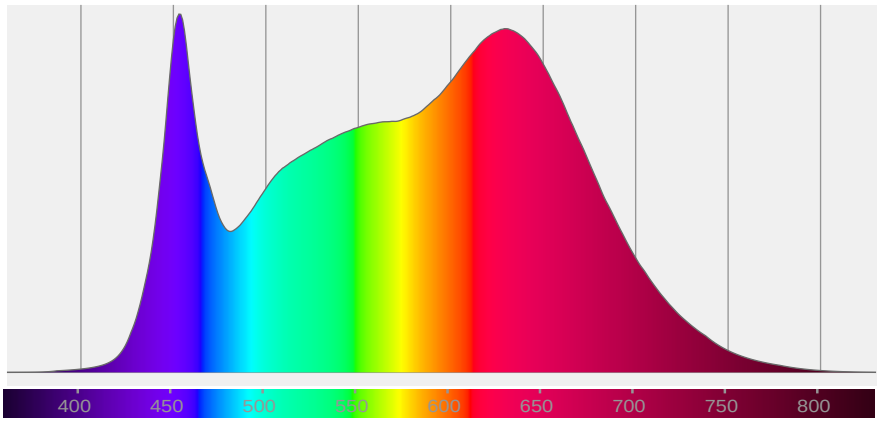
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:40:33

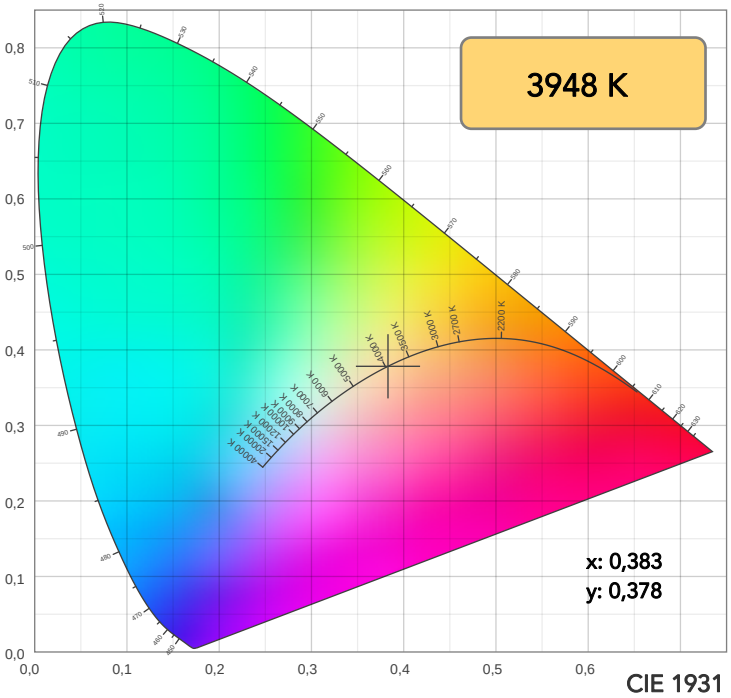


Beam angle 50%: 36,4°
Field angle 10%: 42,8°
Cut off angle 2.5%: 45°

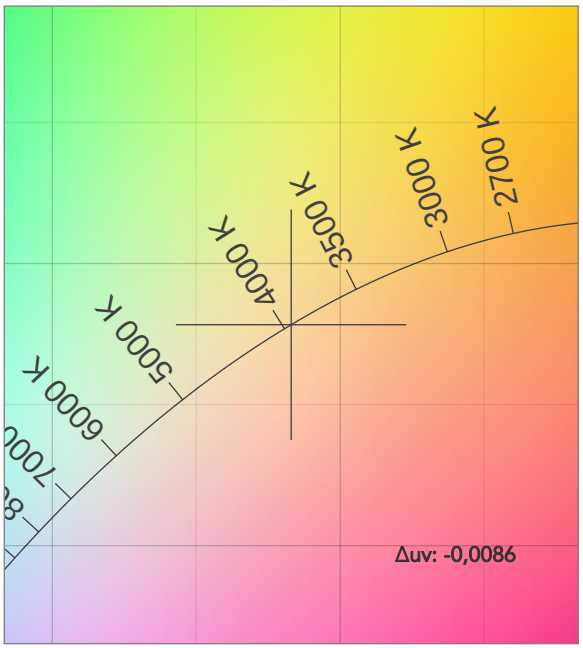
Spectra



COLOR DETAILS

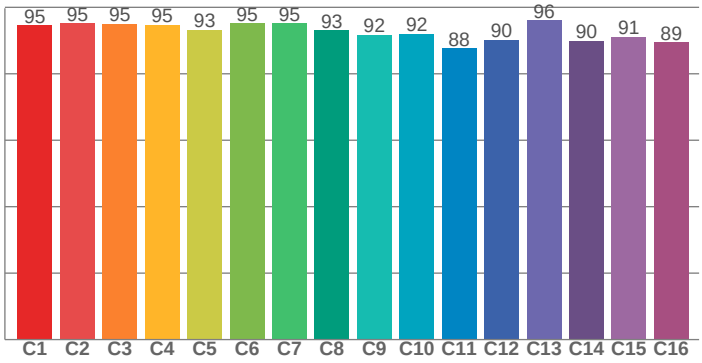


CIE 1931

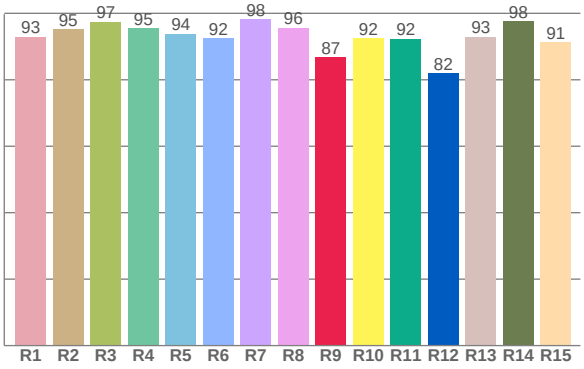


CIE 1931 ZOOM

TM30: 92,9



CRI: 95,2 (R1-R8)



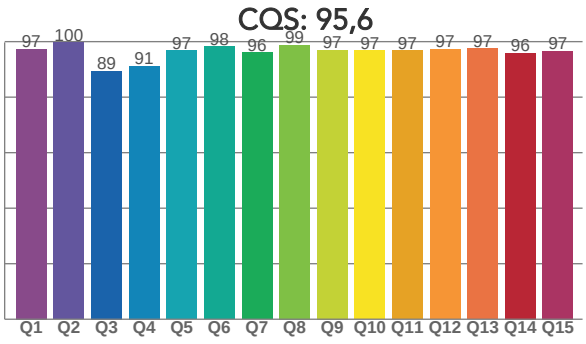
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,0	95,1	97,5	95,4	93,9	92,5	98,3	95,7	86,8	92,5	92,3	82,0	93,0	97,7	91,2

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
94,5	95,2	95,0	94,7	93,1	95,2	95,2	93,1	91,7	92,0	87,6	90,3	96,1	90,0	91,1	89,4

CQS: 95,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	99,6	89,5	91,3	96,8	98,2	96,1	98,8	97,0	96,7	96,7	97,3	97,5	95,9	96,6

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3948 K	95,2	86,8	92,9	103,4	95,6	98	0,383	0,378	-0,0086

TM30 DETAILS

PROLiGHTS

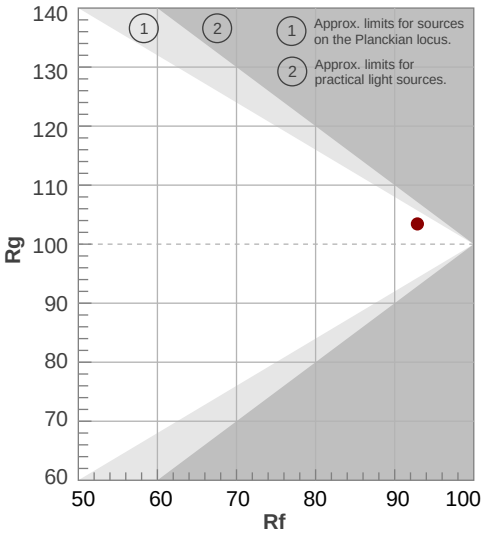
Rf 92,9

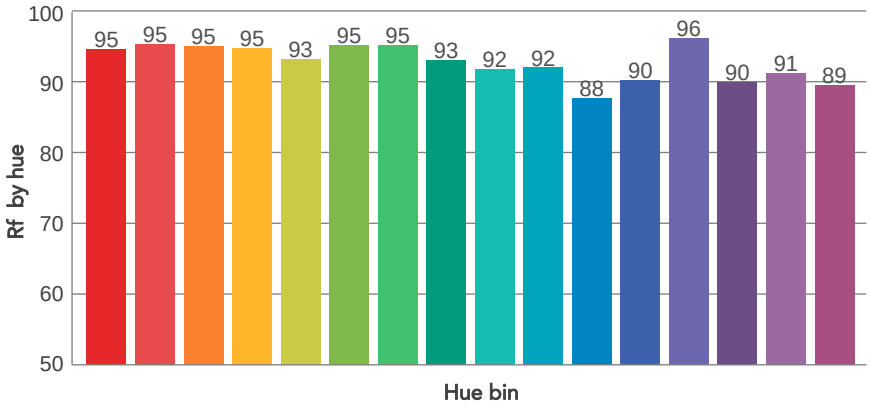
Fidelity index Rf

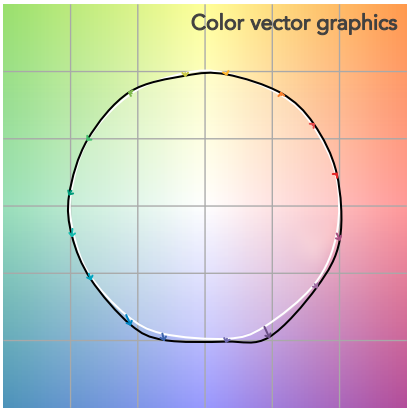
Rg 103,4

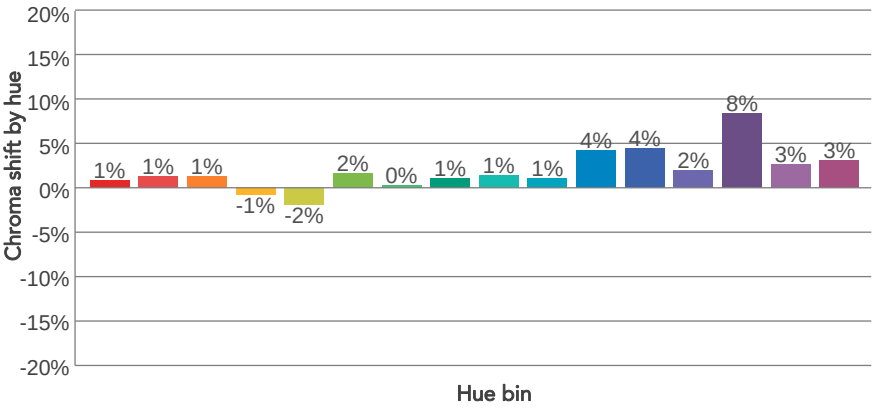
Gammut index

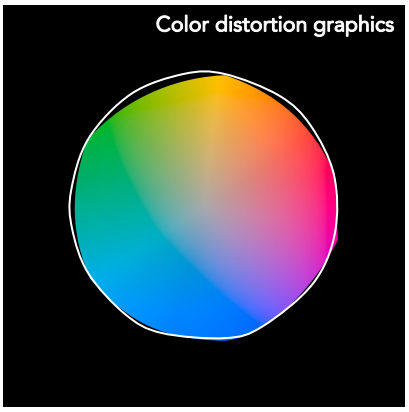
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	95	1%	1%
2	95	1%	0%
3	95	1%	1%
4	95	-1%	0%
5	93	-2%	0%
6	95	2%	1%
7	95	0%	2%
8	93	1%	3%
9	92	1%	5%
10	92	1%	4%
11	88	4%	6%
12	90	4%	2%
13	96	2%	-1%
14	90	8%	-1%
15	91	3%	-1%
16	89	3%	-4%

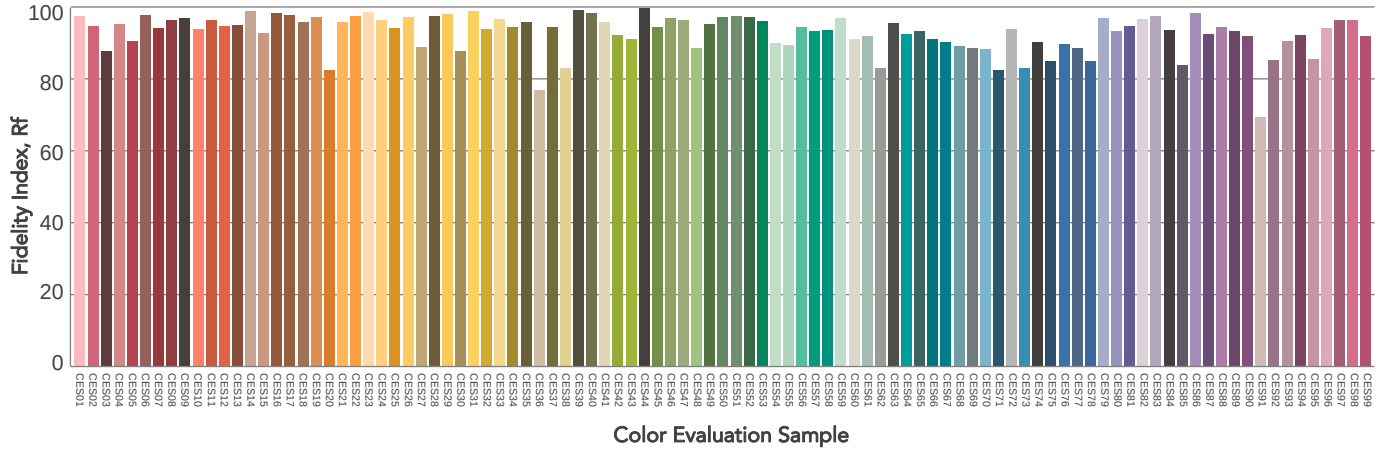












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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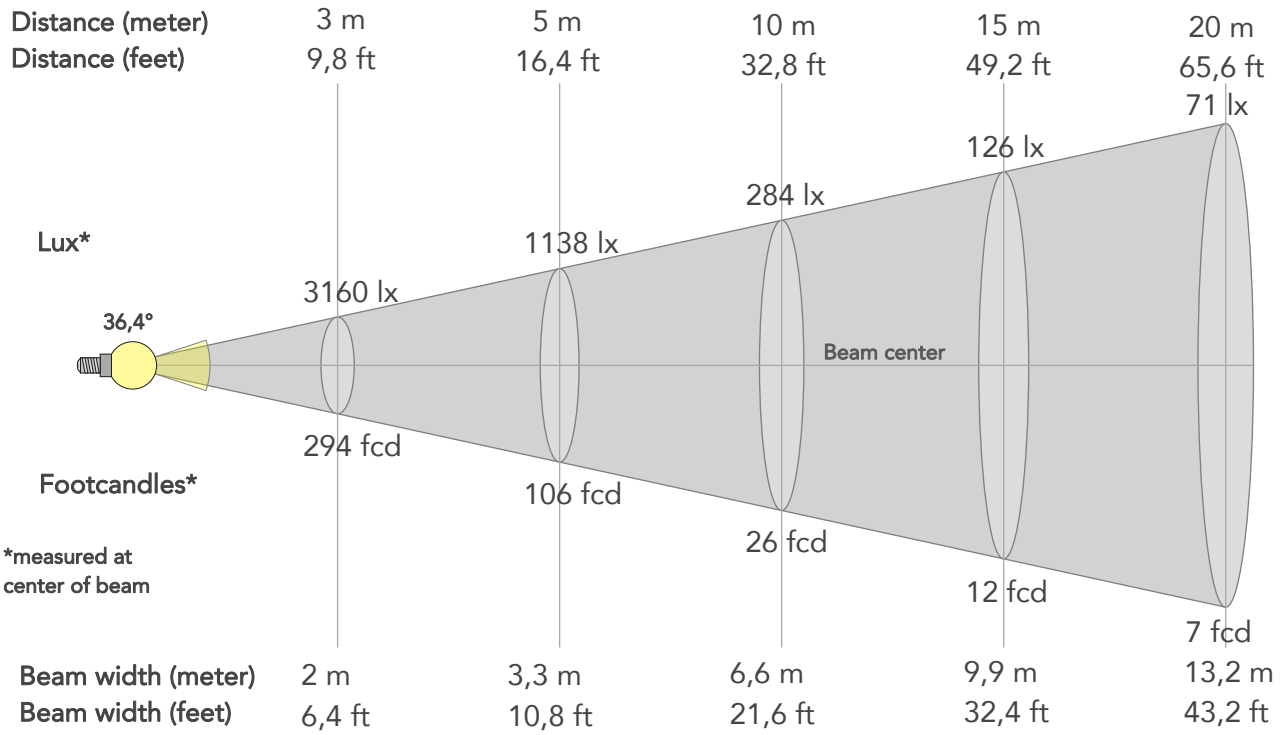
info@prolights.it

BEAM DETAILS

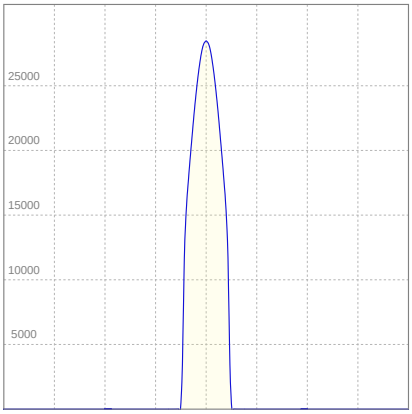
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,4°	42,8°	45°	100,0%	100,0%



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	28441lx	7110lx	3160lx	1778lx	1138lx	506lx	284lx	126lx	71lx	46lx	32lx	18lx	11lx
Footcand.	2642fcd	661fcd	294fcd	165fcd	106fcd	47fcd	26fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	0,7m	1,3m	2m	2,6m	3,3m	4,9m	6,6m	9,9m	13,2m	16,5m	19,7m	26,3m	32,9m
Beam wid.	2,2ft	4,3ft	6,4ft	8,6ft	10,8ft	16,2ft	21,6ft	32,4ft	43,2ft	54ft	64,8ft	86,3ft	107,9ft

LINEAR DISTRIBUTION DIAGRAM



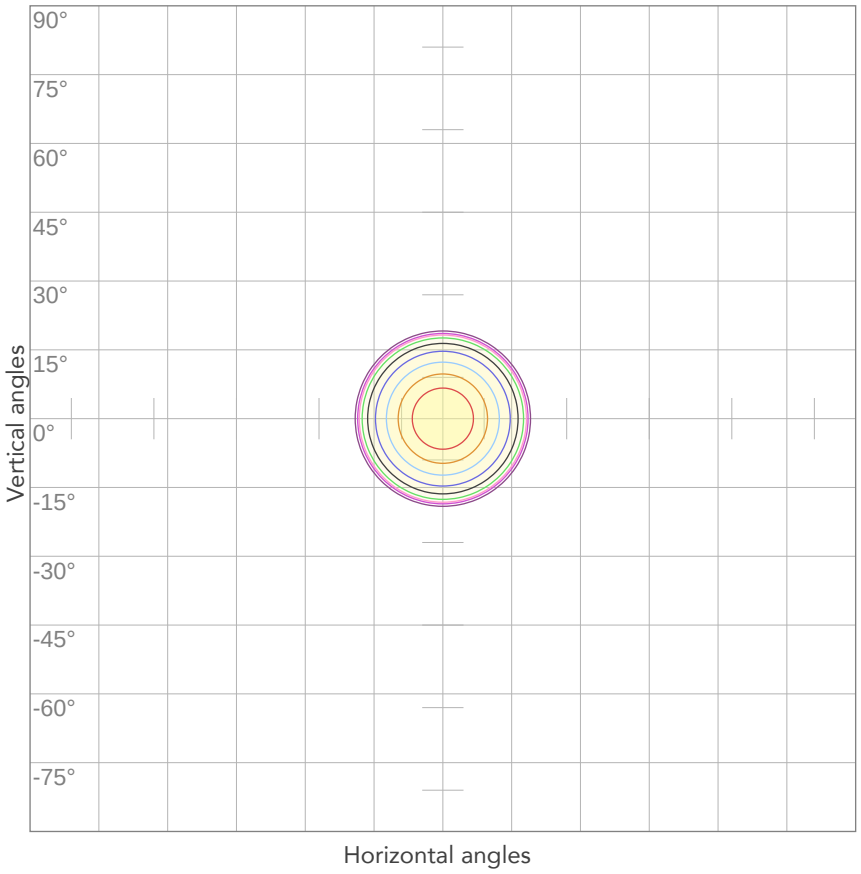
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	1,20A	261,8W	30lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



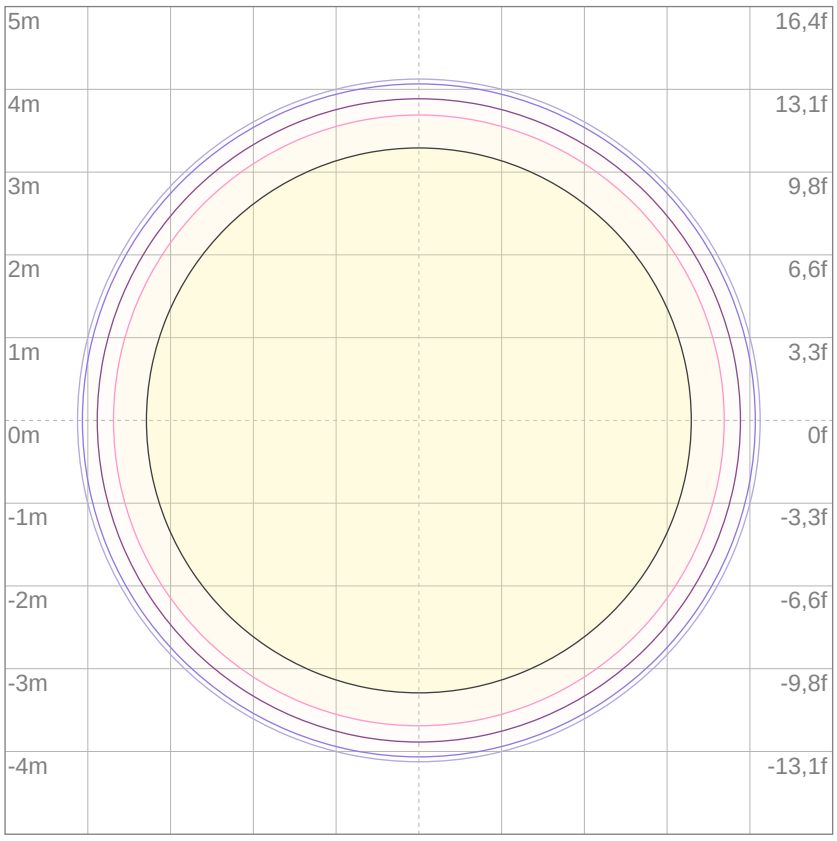
10%	2844 cd
20%	5688 cd
30%	8532 cd
40%	11376 cd
50%	14220 cd
60%	17065 cd
70%	19909 cd
80%	22753 cd

Conditions:

Number of c-planes: 2

Candela at center: 28441 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	8,53 lx
5%	14,2 lx
10%	28,4 lx
30%	85,3 lx
50%	142 lx

Conditions:

Number of c-planes: 2

Lux at center: 284 lx

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

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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Total lumen output:

7135 lm

Peak candela output:

75473 cd

Light quality:

CRI: 95,0

Color temperature:

3922 K

PRODUCT NAME:

ECLFWVW

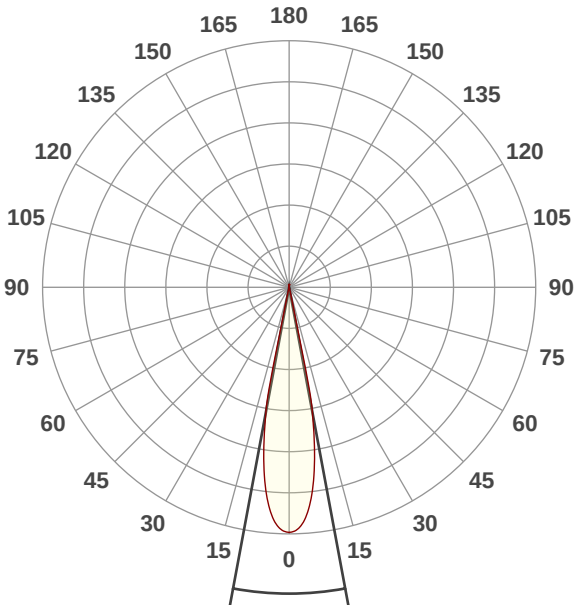
MEASURAMENT CONDITIONS:

Beam angle:
PRL25-50 Min Zoom

Target:
Full On

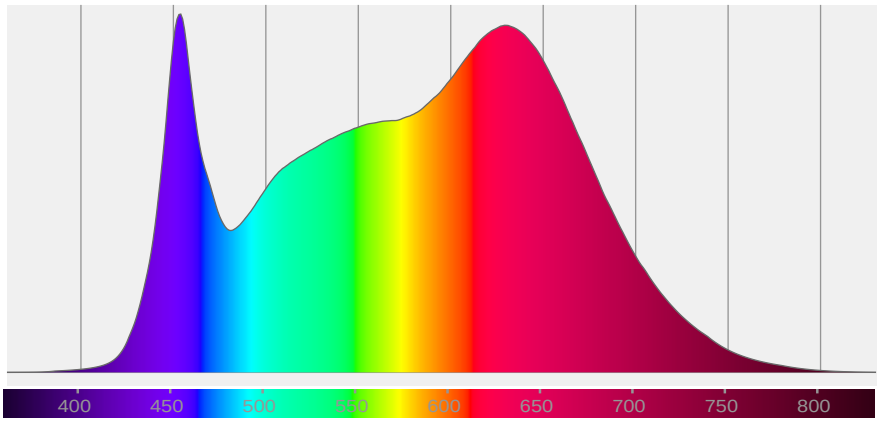
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:48:16



Beam angle 50%: 21,1°
Field angle 10%: 24,5°
Cut off angle 2.5%: 25,6°

Spectra



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04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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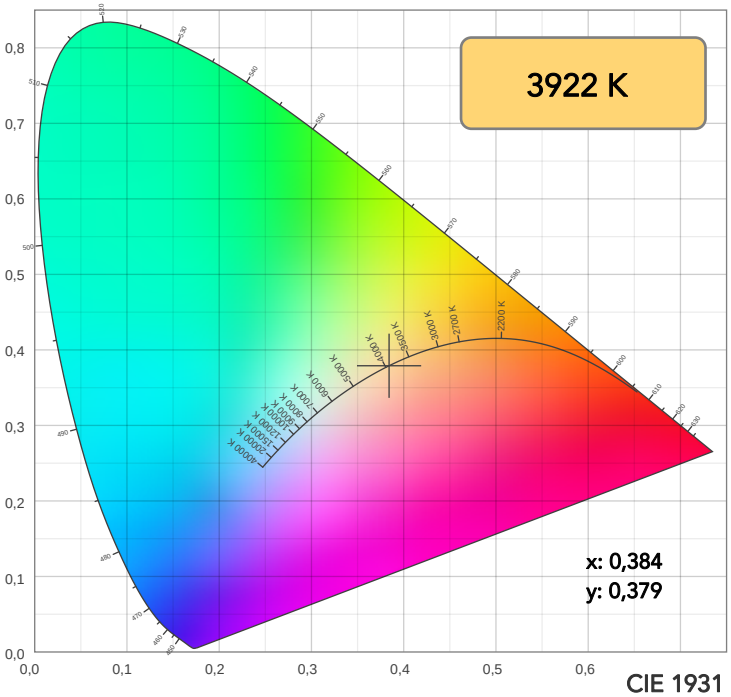
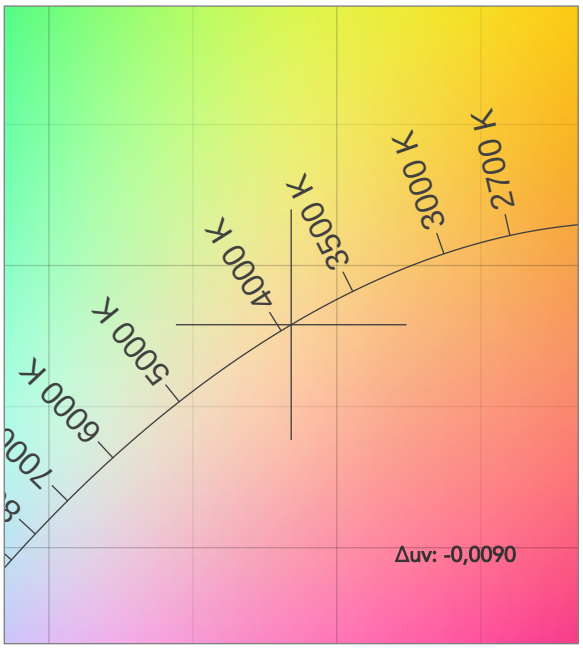
COLOR DETAILS

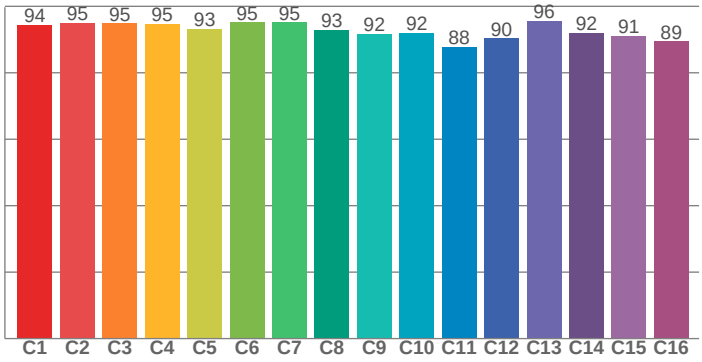


CIE 1931

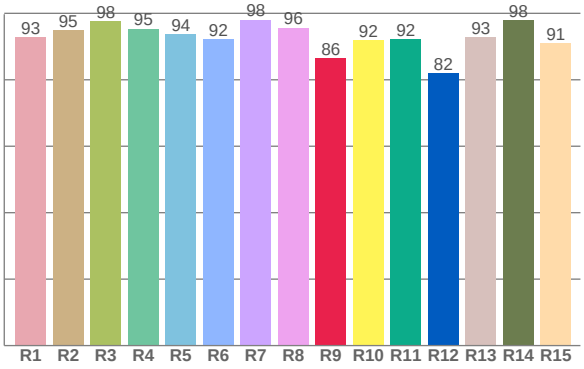


CIE 1931 ZOOM

TM30: 92,9



CRI: 95,0 (R1-R8)



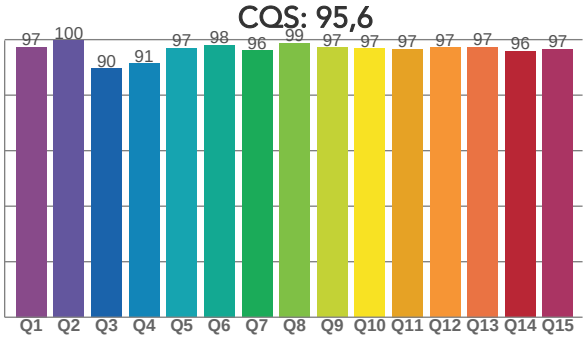
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92,8	94,8	97,6	95,3	93,6	92,2	98,1	95,6	86,4	91,9	92,2	82,0	92,7	97,8	91,0

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
94,5	95,1	94,9	94,7	93,2	95,2	95,1	93,0	91,7	92,1	87,8	90,3	95,5	92,1	91,1	89,5

CQS: 95,6



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97,3	99,6	89,6	91,4	96,9	98,1	96,1	98,7	97,1	96,8	96,7	97,2	97,4	95,8	96,5

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
3922 K	95,0	86,4	92,9	103,4	95,6	98	0,384	0,379	-0,0090

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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info@prolights.it

TM30 DETAILS

PROLiGHTS

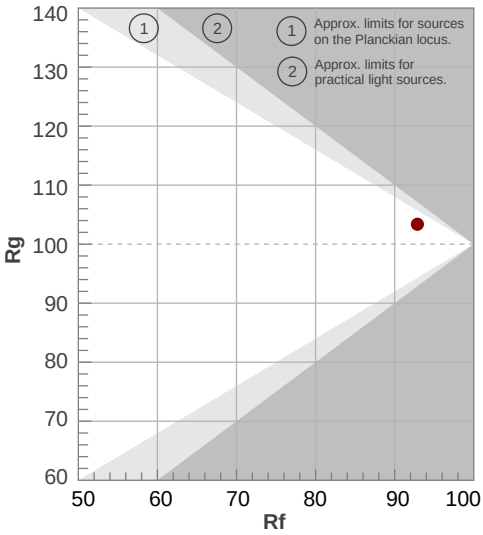
Rf 92,9

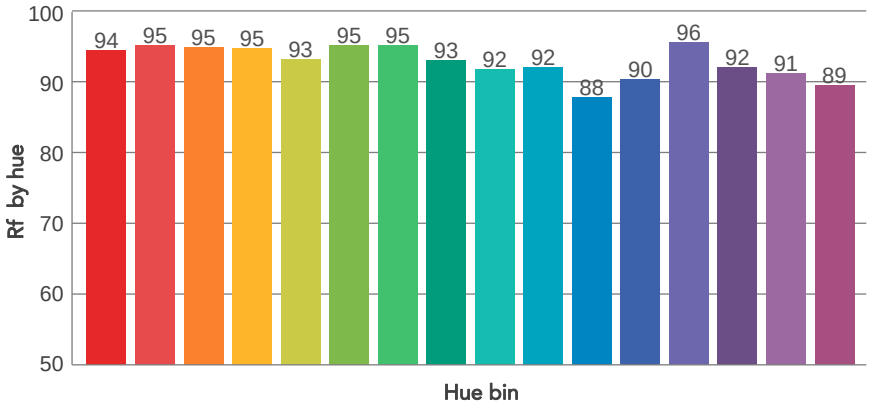
Fidelity index Rf

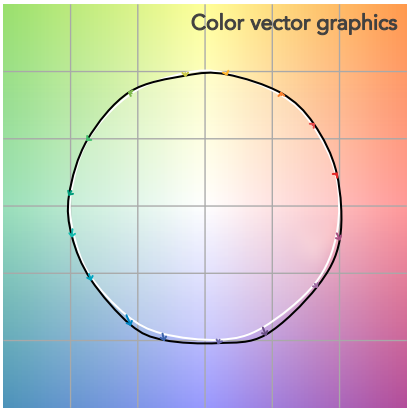
Rg 103,4

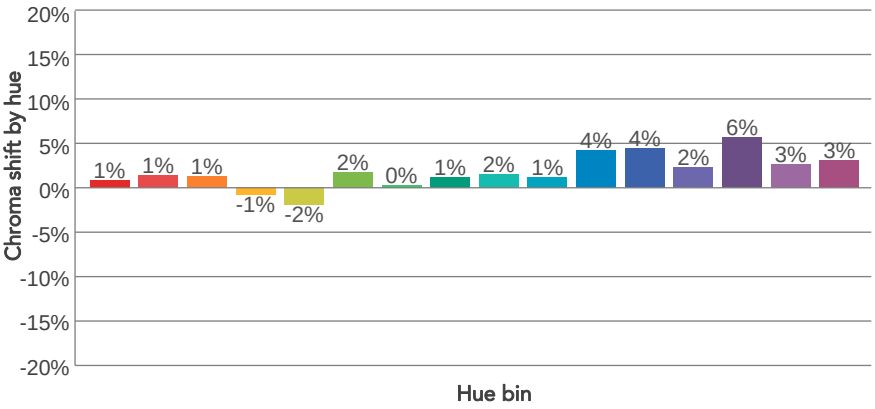
Gammut index

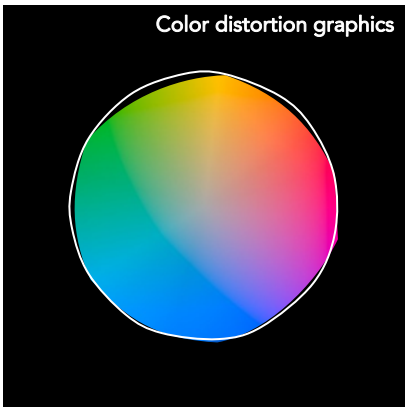
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	94	1%	1%
2	95	1%	0%
3	95	1%	1%
4	95	-1%	0%
5	93	-2%	0%
6	95	2%	1%
7	95	0%	2%
8	93	1%	3%
9	92	2%	5%
10	92	1%	4%
11	88	4%	6%
12	90	4%	2%
13	96	2%	-1%
14	92	6%	-1%
15	91	3%	-1%
16	89	3%	-4%

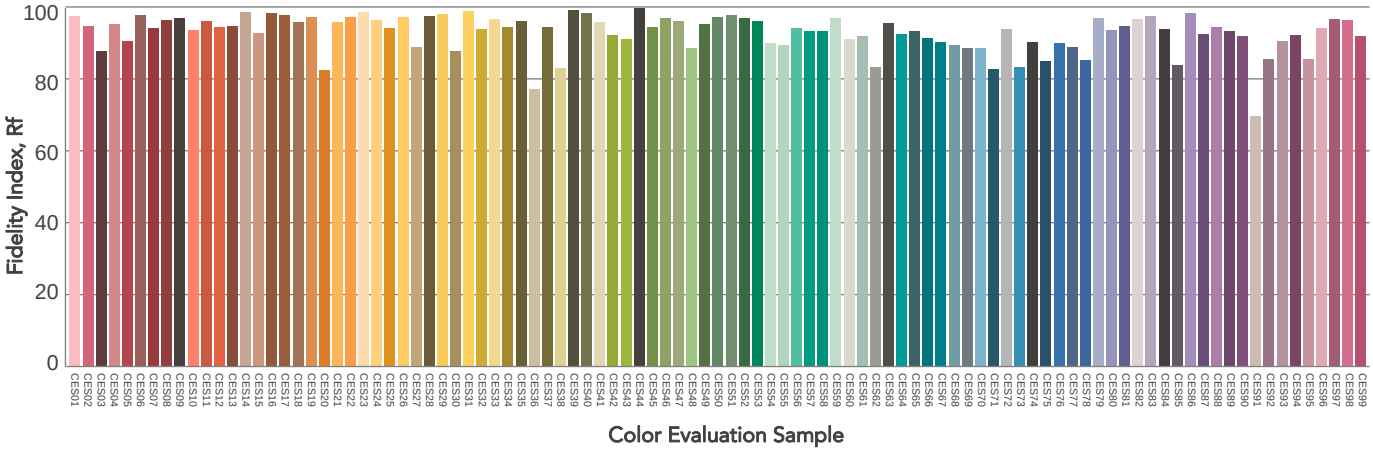












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Tel: +39 0771 72190

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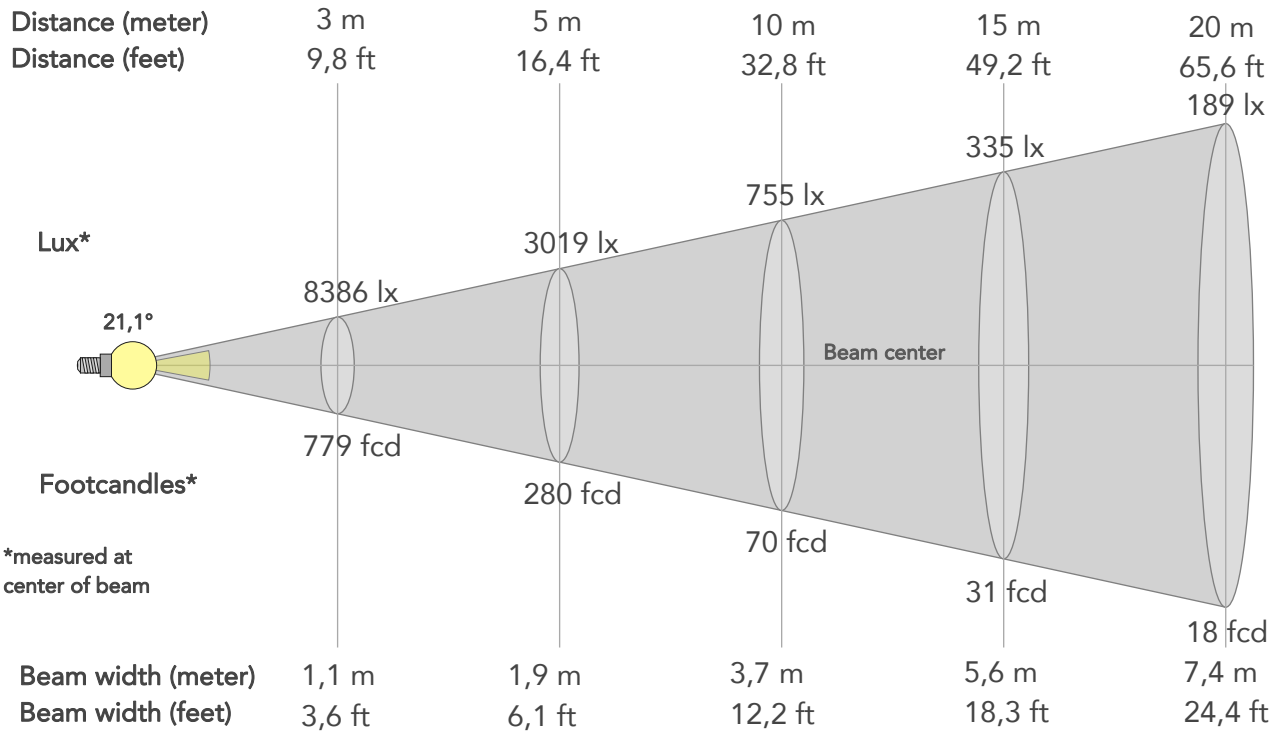
BEAM DETAILS

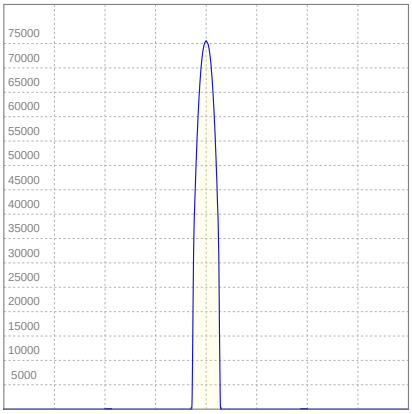
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,1°	24,5°	25,6°	100,0%	100,0%



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	75473lx	18868lx	8386lx	4717lx	3019lx	1342lx	755lx	335lx	189lx	121lx	84lx	47lx	30lx
Footcand.	7012fcd	1753fcd	779fcd	438fcd	280fcd	125fcd	70fcd	31fcd	18fcd	11fcd	8fcd	4fcd	3fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,9m	2,8m	3,7m	5,6m	7,4m	9,3m	11,2m	14,9m	18,6m
Beam wid.	1,2ft	2,5ft	3,6ft	4,9ft	6,1ft	9,2ft	12,2ft	18,3ft	24,4ft	30,5ft	36,6ft	48,8ft	61,1ft

LINEAR DISTRIBUTION DIAGRAM



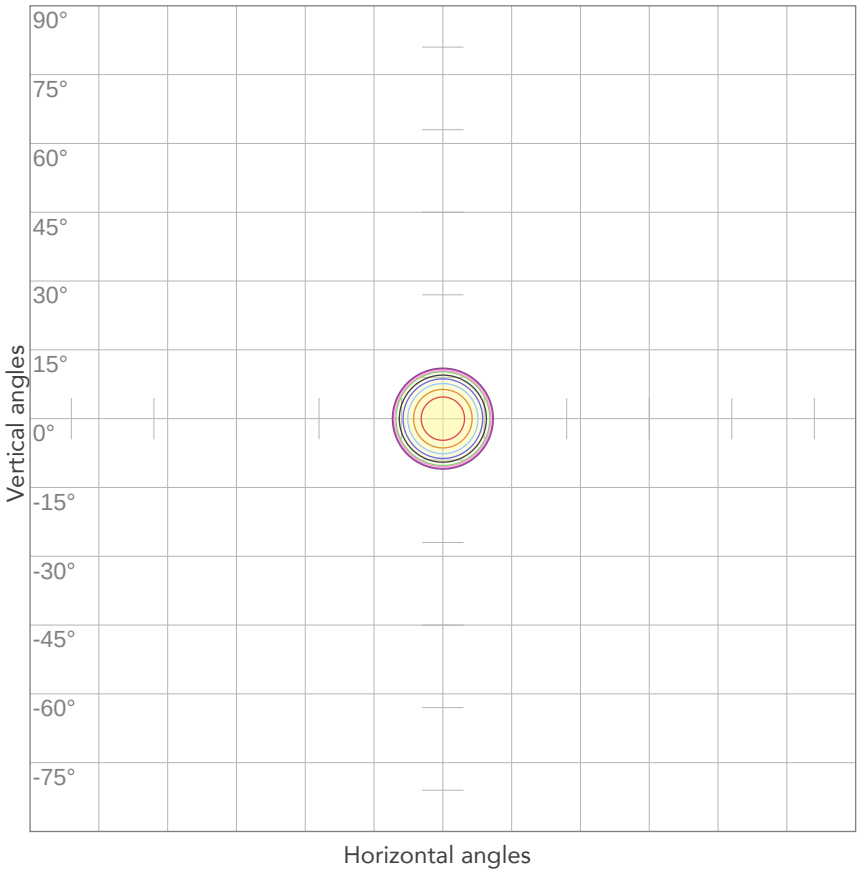
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	1,19A	260,4W	27lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



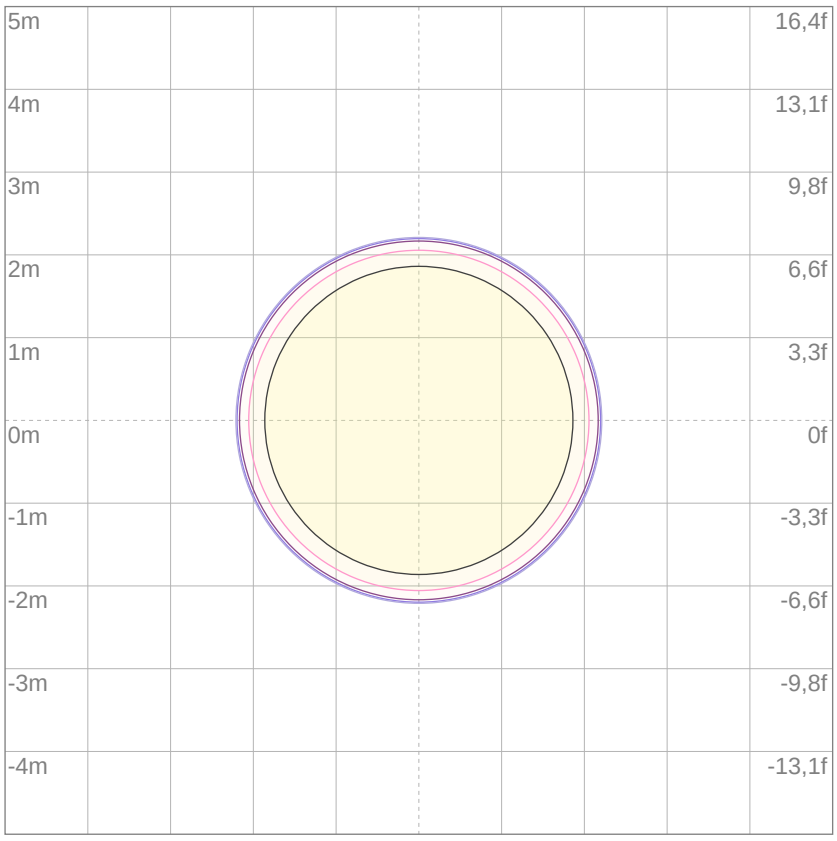
10%	7547 cd
20%	15095 cd
30%	22642 cd
40%	30189 cd
50%	37736 cd
60%	45284 cd
70%	52831 cd
80%	60378 cd

Conditions:

Number of c-planes: 2

Candela at center: 75473 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	22,6 lx
5%	37,7 lx
10%	75,5 lx
30%	226 lx
50%	377 lx

Conditions:

Number of c-planes: 2

Lux at center: 755 lx

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

Total lumen output:

4296 lm

Peak candela output:

15639 cd

Light quality:

CRI: 96,8

Color temperature:

5611 K

PRODUCT NAME:

ECLFWVW

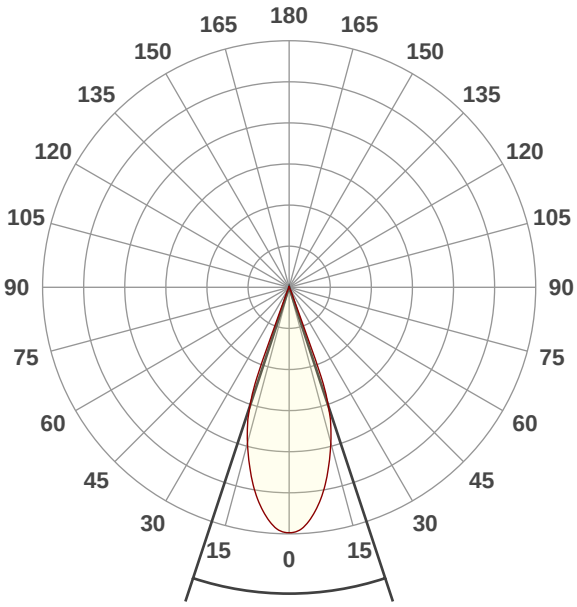
MEASURAMENT CONDITIONS:

Beam angle:
PRL25-50 Max Zoom

Target:
Cold White

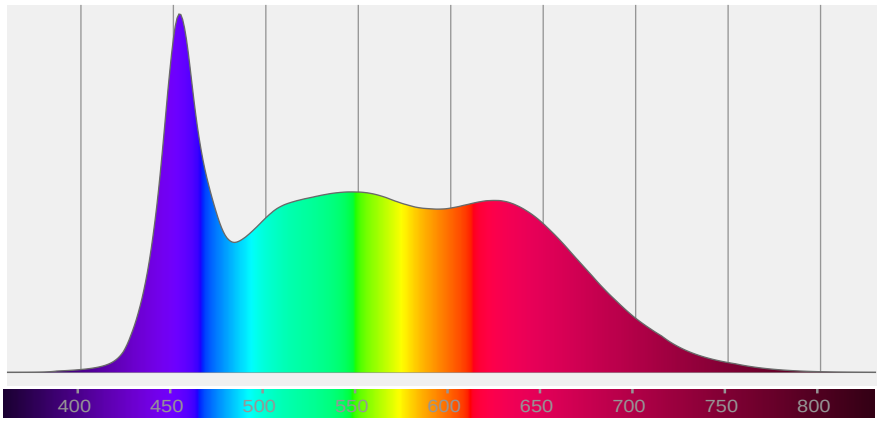
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:43:39

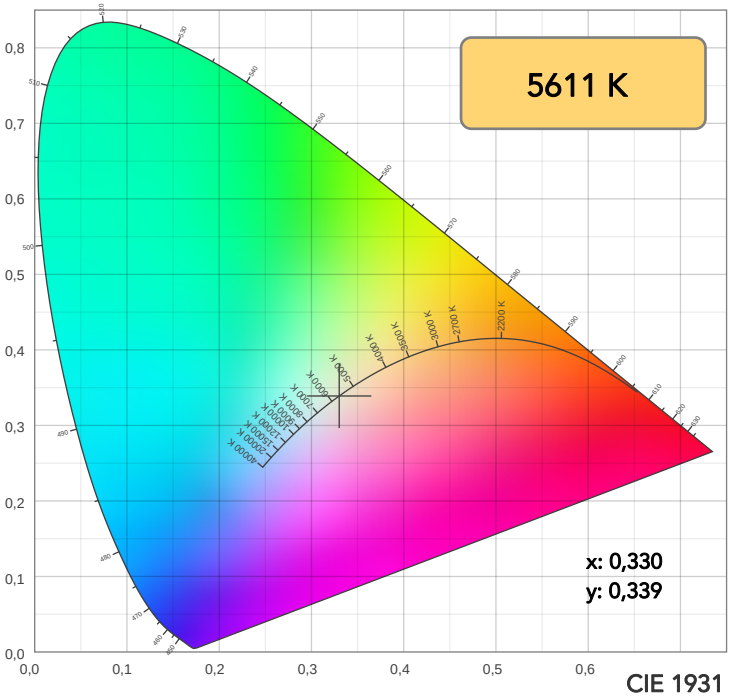


Beam angle 50%: 36,6°
Field angle 10%: 42,6°
Cut off angle 2.5%: 45,2°

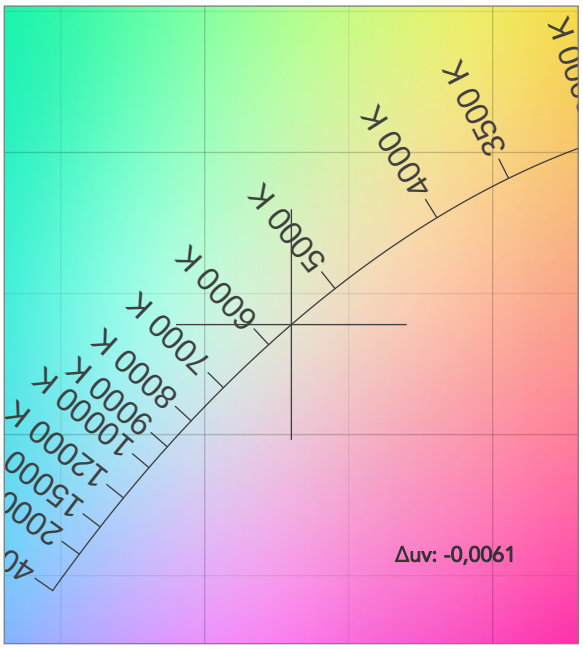
Spectra



COLOR DETAILS

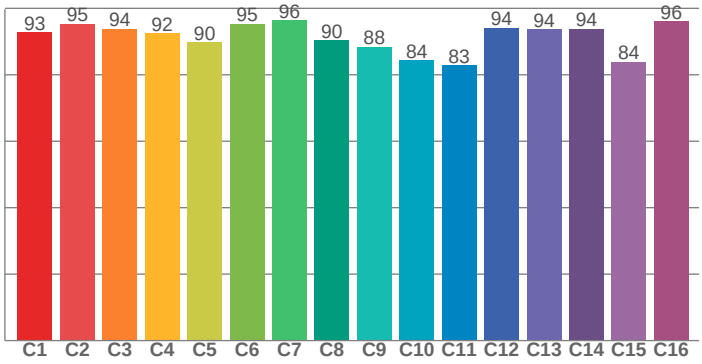


CIE 1931

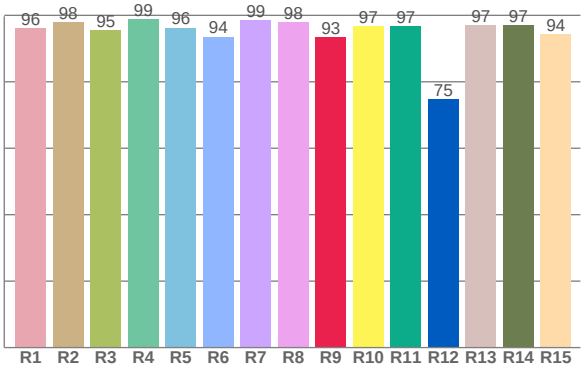


CIE 1931 ZOOM

TM30: 91,1



CRI: 96,8 (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
96,1	97,9	95,4	98,8	96,2	93,6	98,6	97,9	93,4	96,8	96,7	74,7	97,0	97,0	94,4

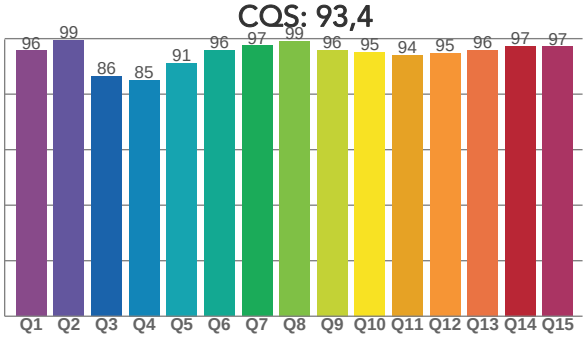
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,8	95,3	93,9	92,5	89,8	95,3	96,4	90,4	88,4	84,3	82,8	94,2	93,6	93,9	84,0	96,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,7	99,4	86,4	85,1	91,2	95,8	97,4	99,1	96,0	95,2	94,1	94,8	95,9	97,4	97,1

CQS: 93,4



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5611 K	96,8	93,4	91,1	101,0	93,4	98	0,330	0,339	-0,0061

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

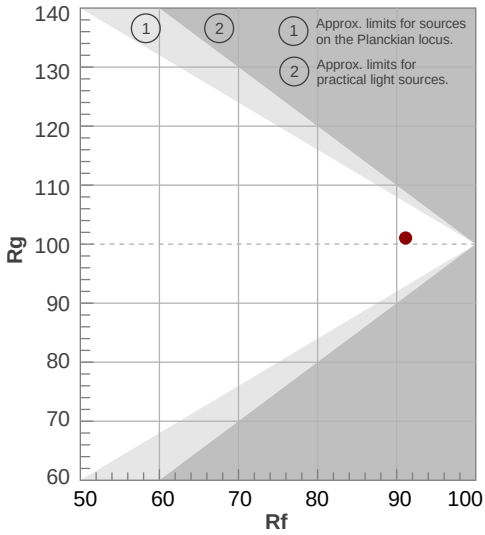
Rf 91,1

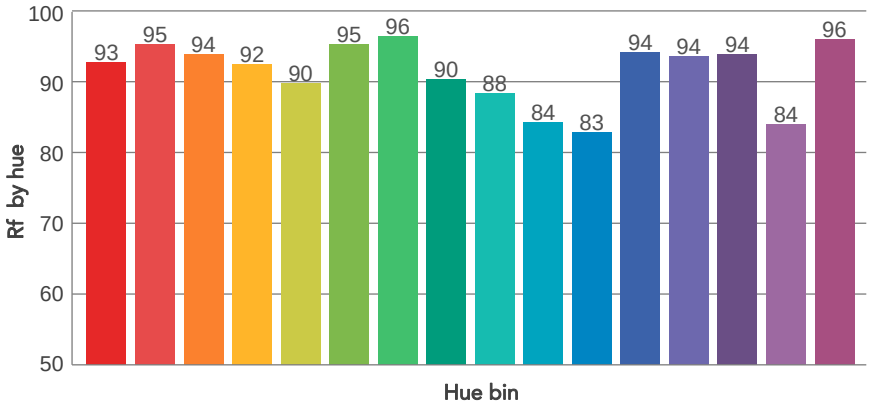
Fidelity index Rf

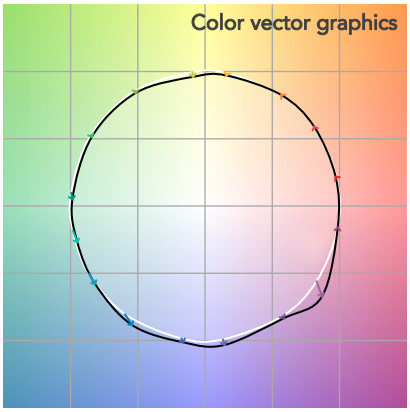
Rg 101,0

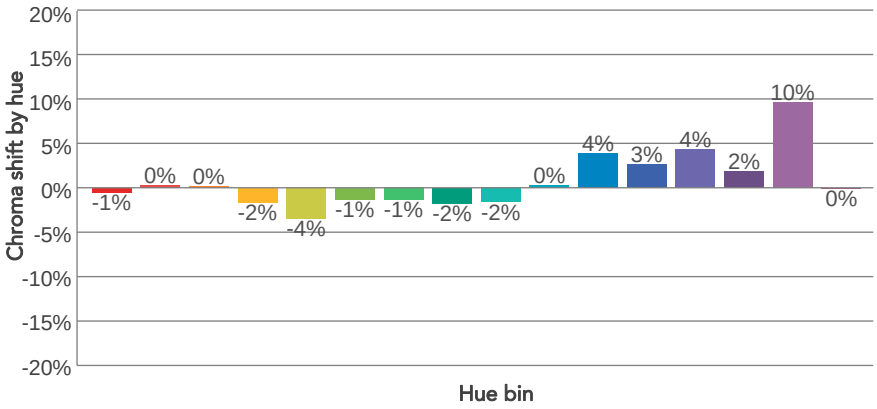
Gammut index

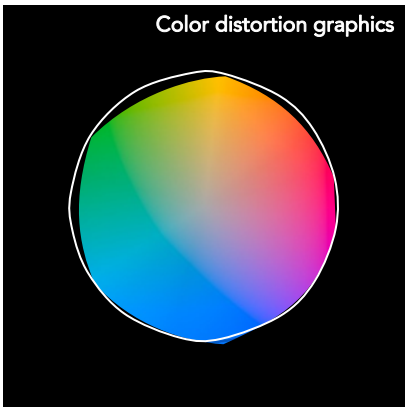
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	-1%	1%
2	95	0%	1%
3	94	0%	1%
4	92	-2%	0%
5	90	-4%	0%
6	95	-1%	1%
7	96	-1%	1%
8	90	-2%	5%
9	88	-2%	9%
10	84	0%	9%
11	83	4%	9%
12	94	3%	2%
13	94	4%	0%
14	94	2%	0%
15	84	10%	-7%
16	96	0%	0%

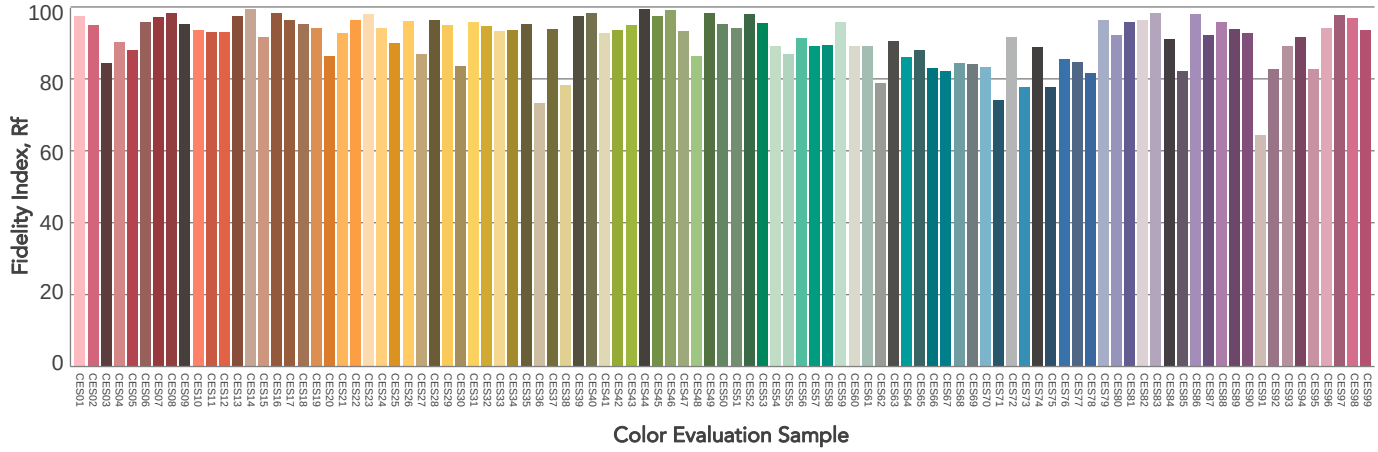












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04026 - Minturno (LT) ITALY
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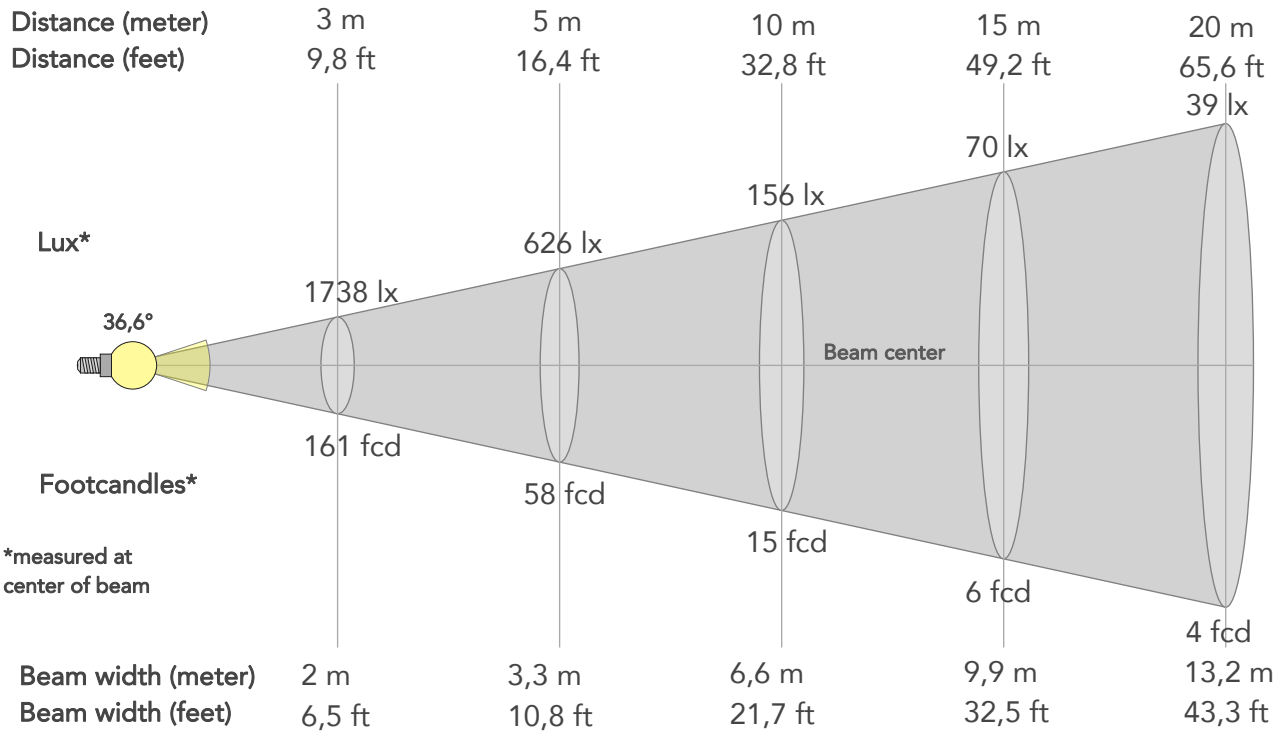
BEAM DETAILS

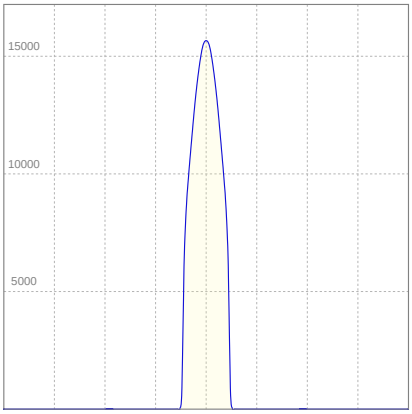
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,6°	42,6°	45,2°	100,0%	100,0%



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	15639lx	3910lx	1738lx	977lx	626lx	278lx	156lx	70lx	39lx	25lx	17lx	10lx	6lx
Footcand.	1453fcd	363fcd	161fcd	91fcd	58fcd	26fcd	15fcd	6fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,7m	1,3m	2m	2,6m	3,3m	5m	6,6m	9,9m	13,2m	16,5m	19,8m	26,4m	33m
Beam wid.	2,2ft	4,4ft	6,5ft	8,7ft	10,8ft	16,2ft	21,7ft	32,5ft	43,3ft	54,2ft	65ft	86,7ft	108,3ft

LINEAR DISTRIBUTION DIAGRAM



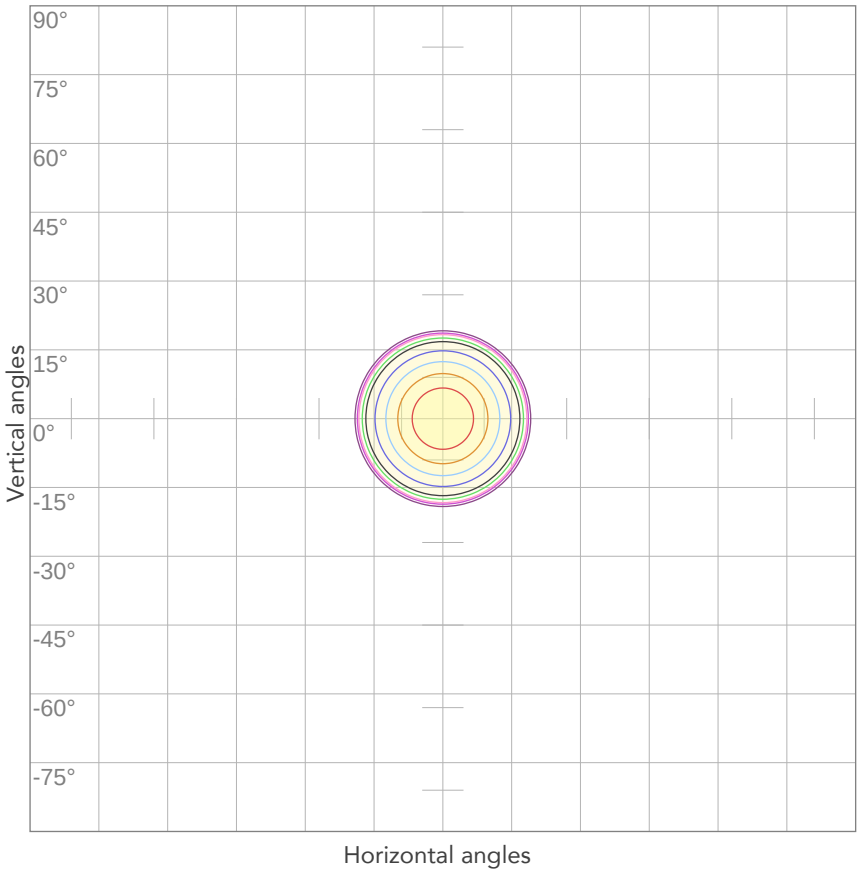
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
229V	0,616A	130,6W	33lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



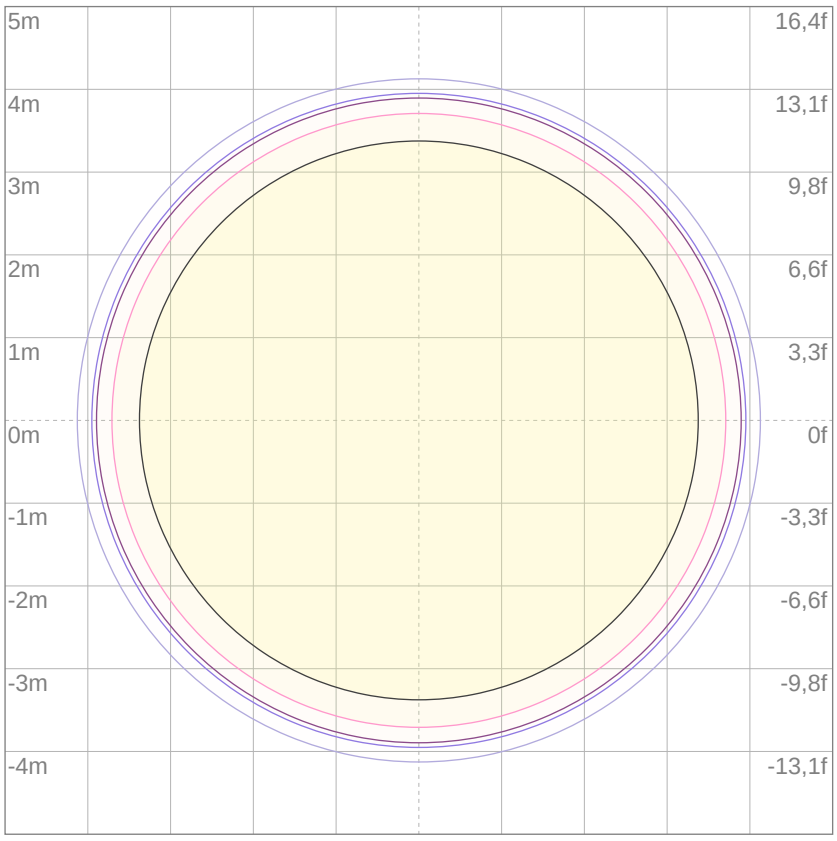
10%	1564 cd
20%	3128 cd
30%	4692 cd
40%	6255 cd
50%	7819 cd
60%	9383 cd
70%	10947 cd
80%	12511 cd

Conditions:

Number of c-planes: 2

Candela at center: 15639 cd

ISO LUX DIAGRAM



3%	4,69 lx
5%	7,82 lx
10%	15,6 lx
30%	46,9 lx
50%	78,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 156 lx

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

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04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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Total lumen output:

3974 lm

Peak candela output:

41527 cd

Light quality:

CRI: 96,8

Color temperature:

5612 K

PRODUCT NAME:

ECLFWVW

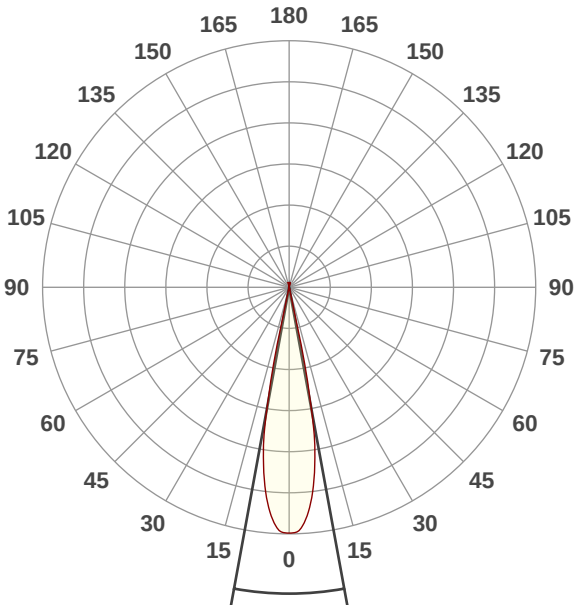
MEASURAMENT CONDITIONS:

Beam angle:
PRL25-50 Min Zoom

Target:
Cold White

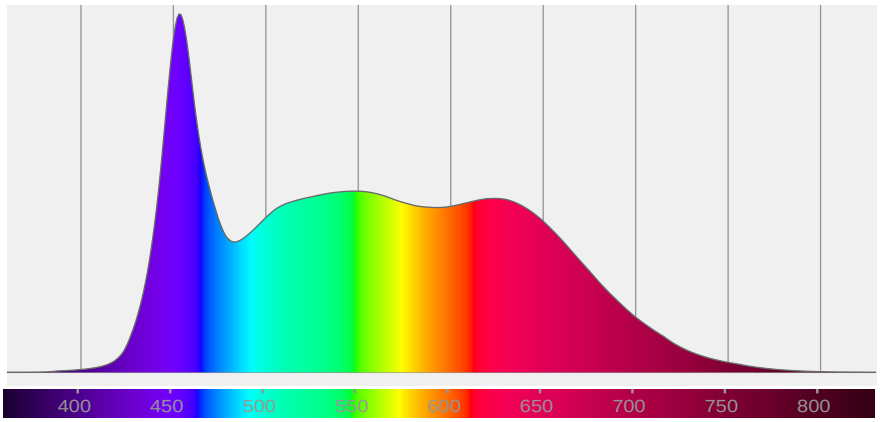
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:50:49

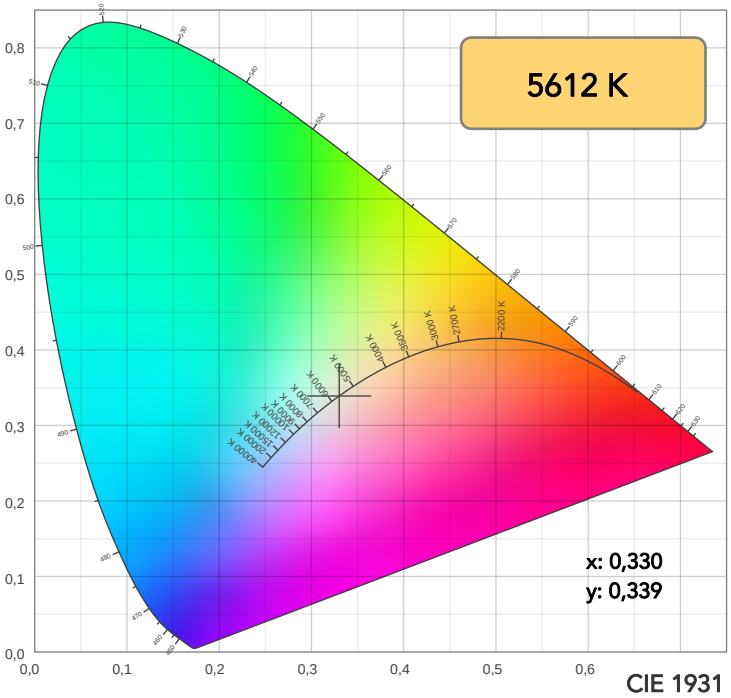


Beam angle 50%: 20,7°
Field angle 10%: 25,3°
Cut off angle 2.5%: 26,1°

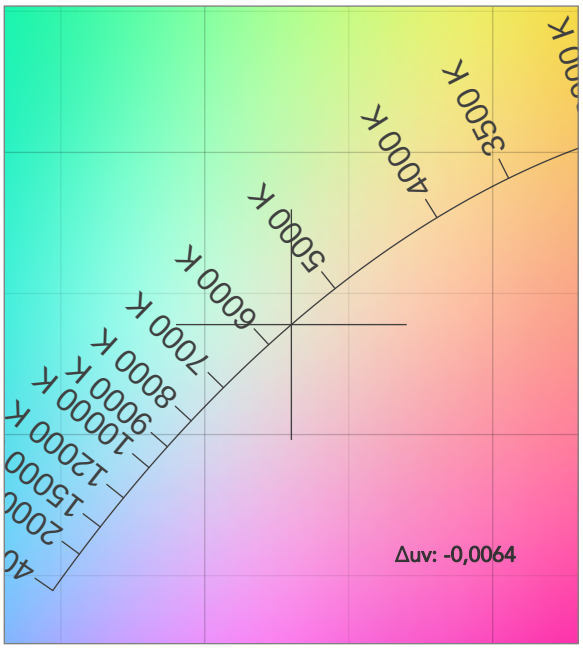
Spectra



COLOR DETAILS

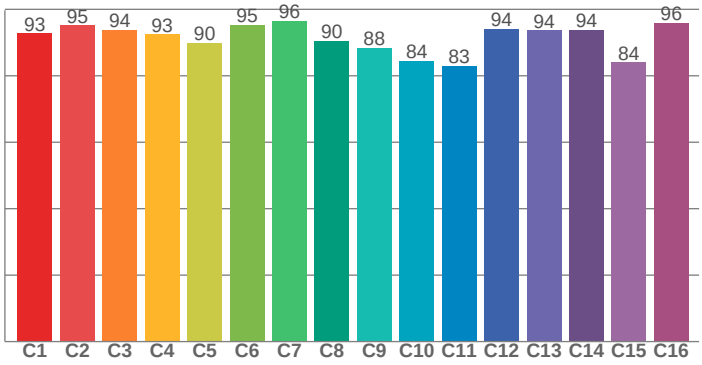


CIE 1931

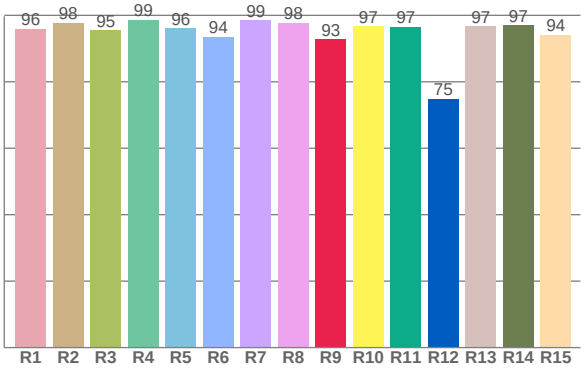


CIE 1931 ZOOM

TM30: 91,2



CRI: 96,8 (R1-R8)



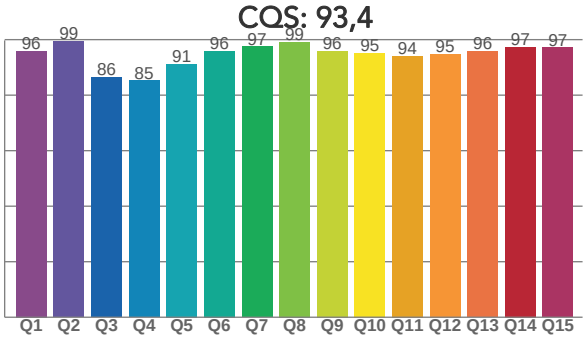
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96,0	97,8	95,5	98,7	96,2	93,6	98,6	97,8	92,9	96,8	96,6	74,9	96,8	97,0	94,2

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
92,8	95,2	93,9	92,5	89,9	95,3	96,4	90,4	88,5	84,4	82,9	94,2	93,7	93,9	84,1	96,0

CQS: 93,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,8	99,4	86,4	85,2	91,3	95,9	97,5	99,1	95,9	95,2	94,1	94,8	95,8	97,3	97,1

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
5612 K	96,8	92,9	91,2	101,1	93,4	98	0,330	0,339	-0,0064

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

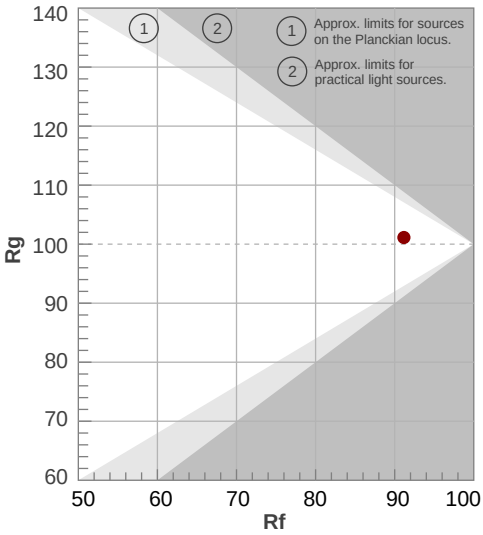
Rf 91,2

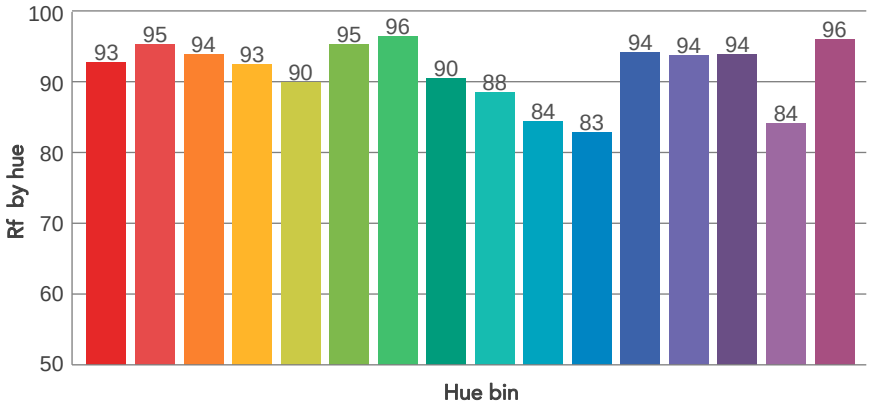
Fidelity index Rf

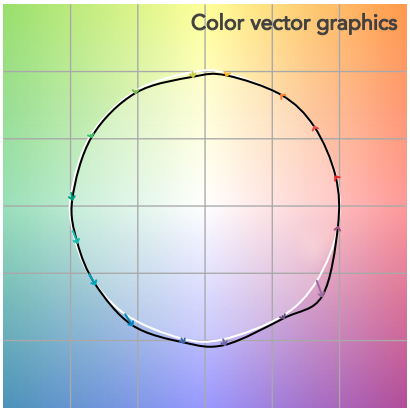
Rg 101,1

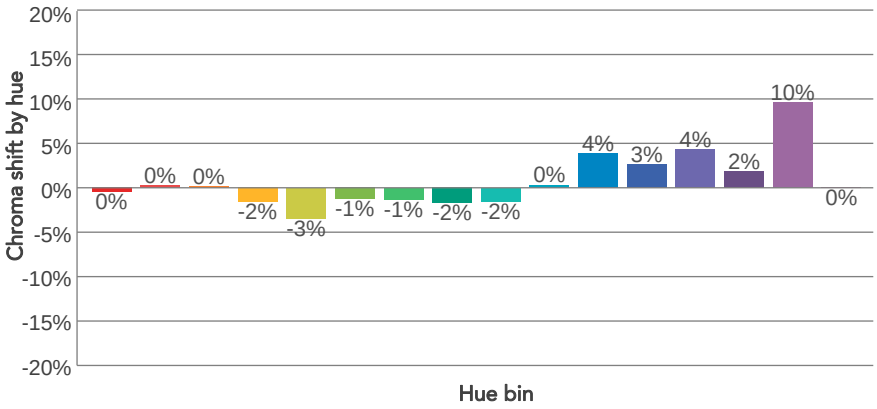
Gammut index

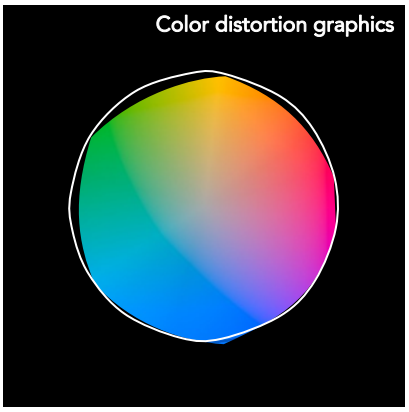
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	0%	1%
2	95	0%	1%
3	94	0%	1%
4	93	-2%	0%
5	90	-3%	0%
6	95	-1%	1%
7	96	-1%	1%
8	90	-2%	5%
9	88	-2%	9%
10	84	0%	9%
11	83	4%	9%
12	94	3%	2%
13	94	4%	0%
14	94	2%	0%
15	84	10%	-7%
16	96	0%	1%

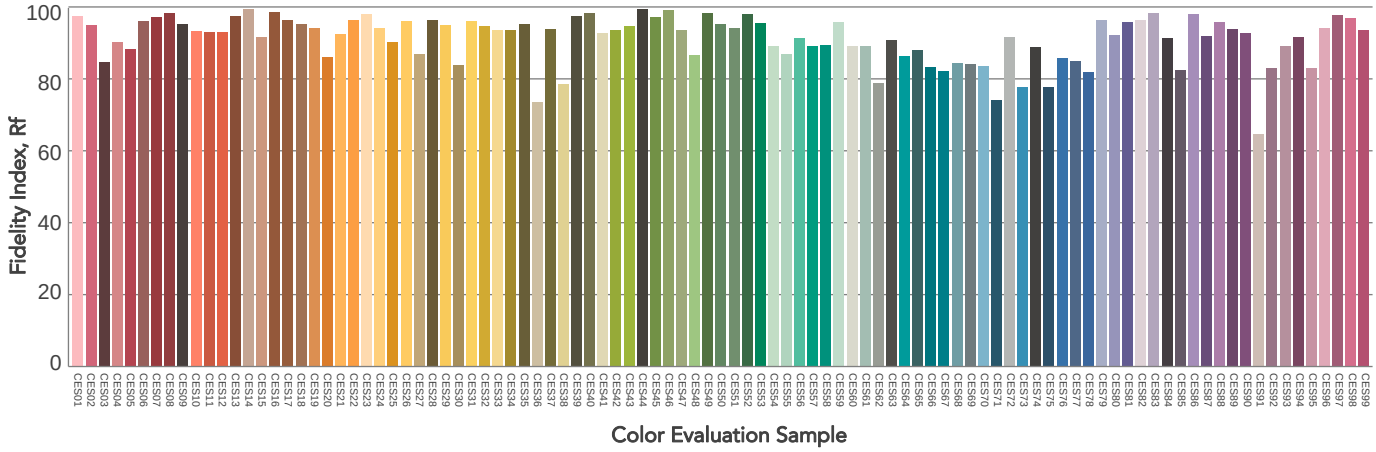












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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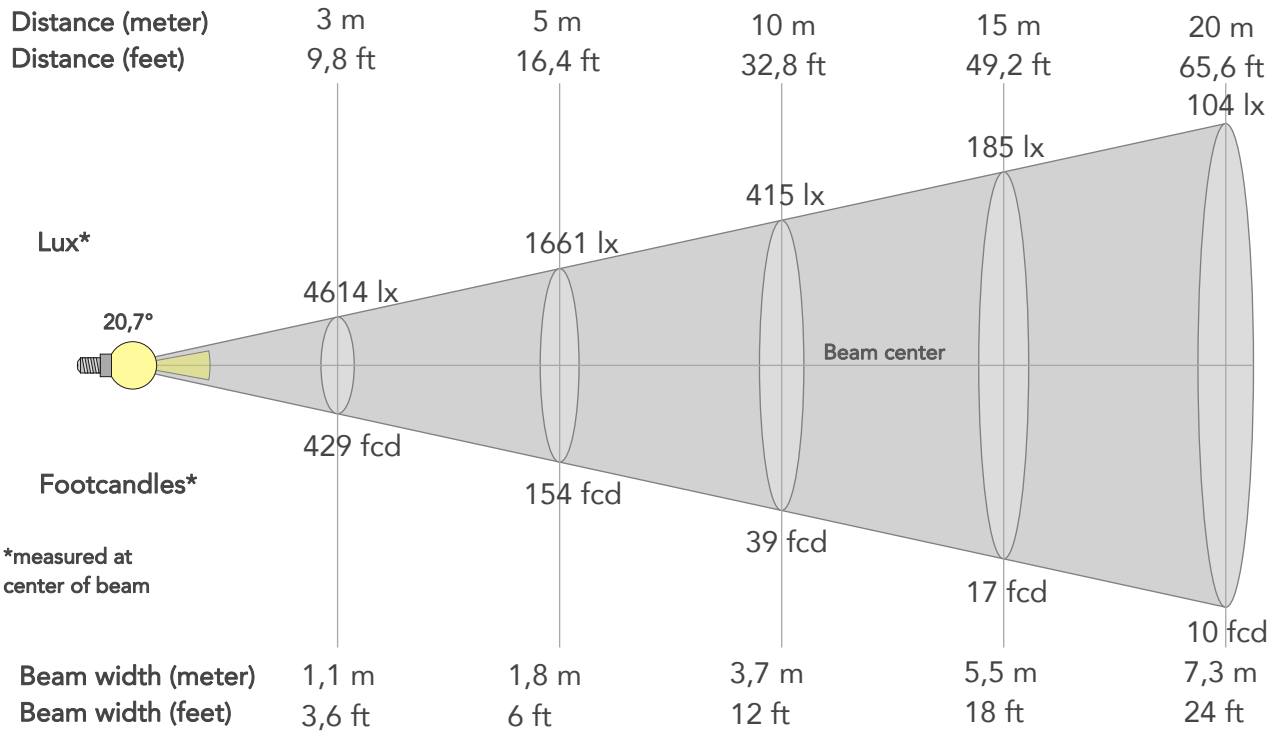
BEAM DETAILS

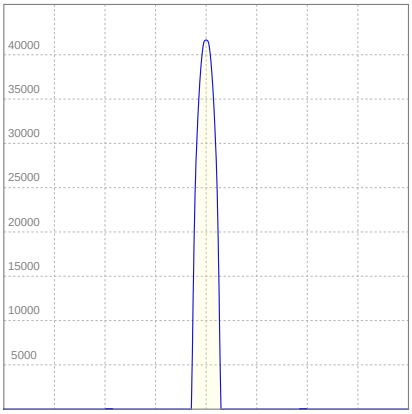
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,7°	25,3°	26,1°	100,0%	100,0%



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	41527lx	10382lx	4614lx	2595lx	1661lx	738lx	415lx	185lx	104lx	66lx	46lx	26lx	17lx
Footcand.	3858fcd	964fcd	429fcd	241fcd	154fcd	69fcd	39fcd	17fcd	10fcd	6fcd	4fcd	2fcd	2fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,8m	2,7m	3,7m	5,5m	7,3m	9,1m	11m	14,6m	18,3m
Beam wid.	1,2ft	2,4ft	3,6ft	4,8ft	6ft	9ft	12ft	18ft	24ft	30ft	36ft	48ft	60ft

LINEAR DISTRIBUTION DIAGRAM



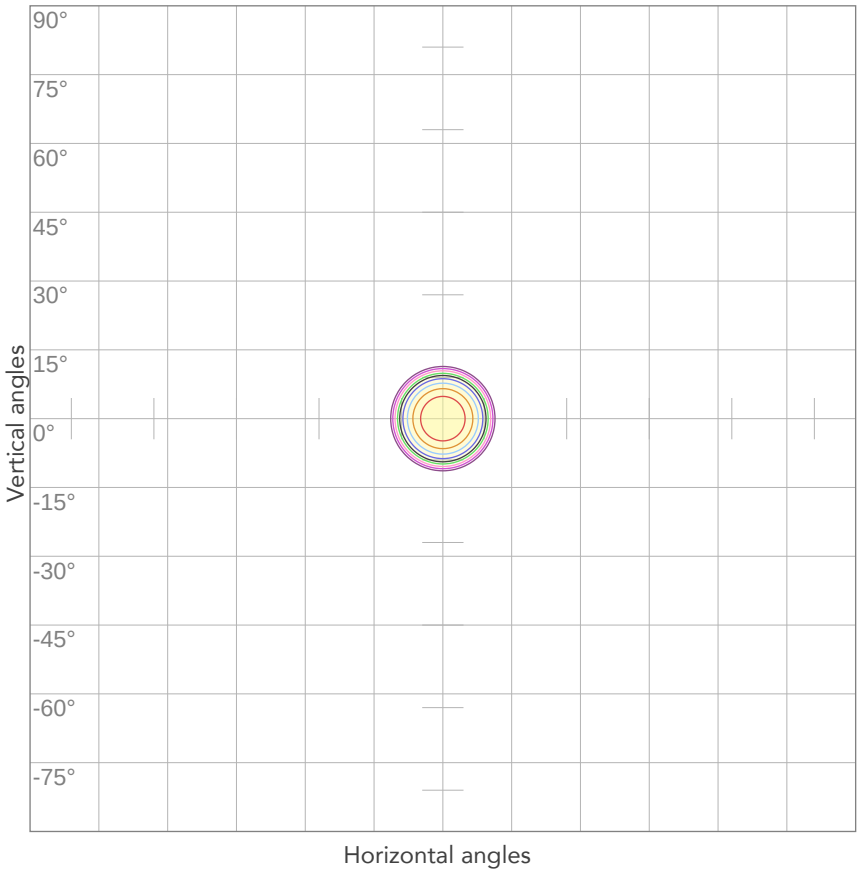
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
227V	0,619A	130,5W	30lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



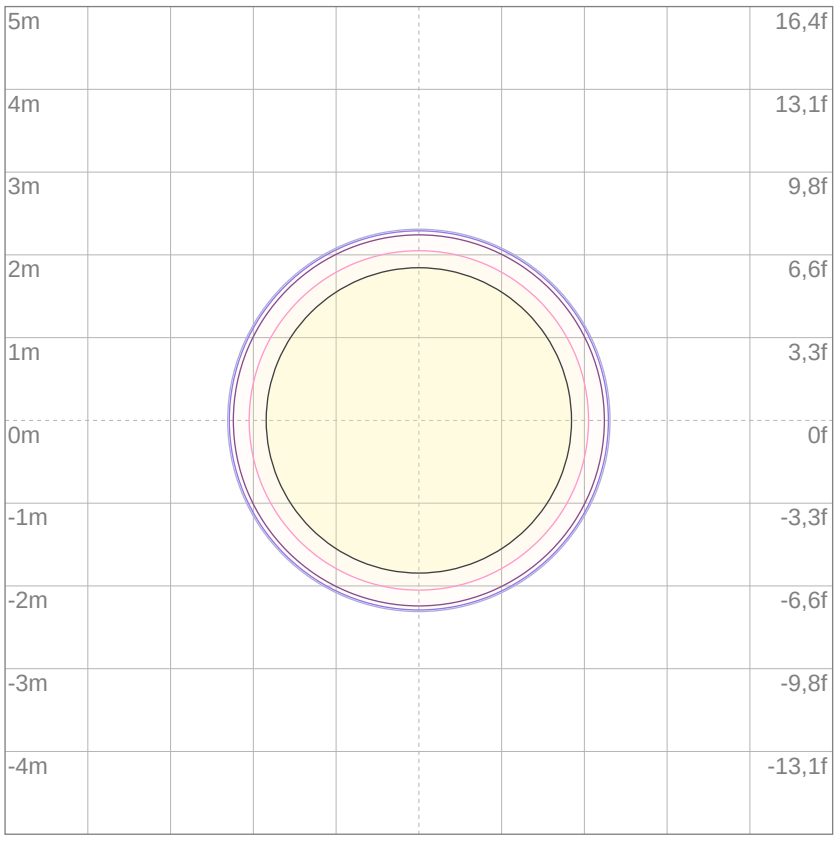
10%	4153 cd
20%	8305 cd
30%	12458 cd
40%	16611 cd
50%	20763 cd
60%	24916 cd
70%	29069 cd
80%	33221 cd

Conditions:

Number of c-planes: 2

Candela at center: 41527 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	12,5 lx
5%	20,8 lx
10%	41,5 lx
30%	125 lx
50%	208 lx

Conditions:

Number of c-planes: 2

Lux at center: 415 lx

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

Total lumen output:

3527 lm

Peak candela output:

12980 cd

Light quality:

CRI: 96,7

Color temperature:

2714 K

PRODUCT NAME:

ECLFWVW

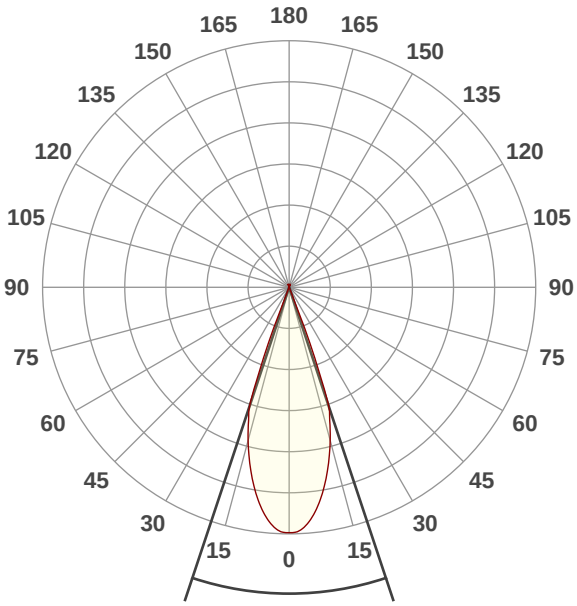
MEASURAMENT CONDITIONS:

Beam angle:
PRL25-50 Max Zoom

Target:
Warm White

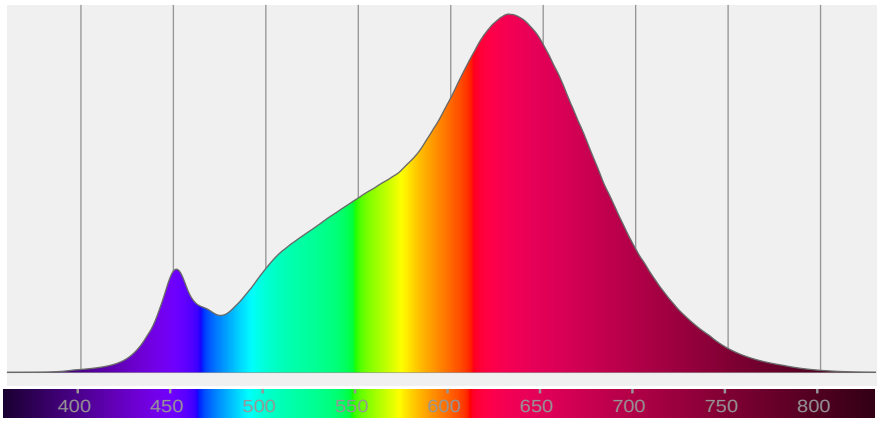
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:42:12



Beam angle 50%: 36,8°
Field angle 10%: 42,9°
Cut off angle 2.5%: 44°

Spectra



Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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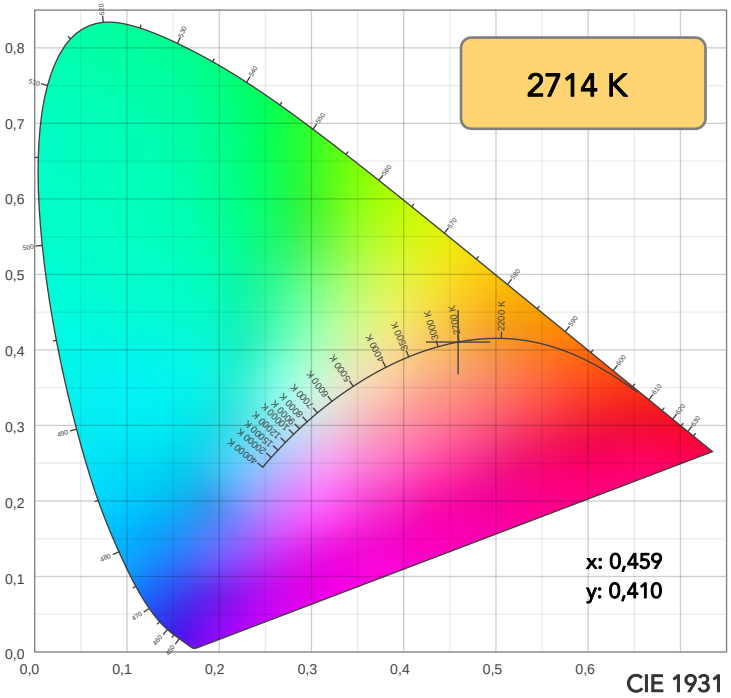
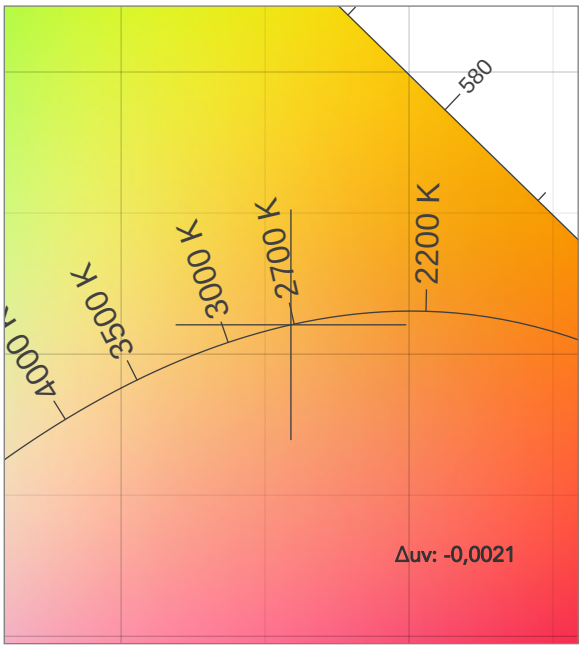
info@prolights.it

COLOR DETAILS

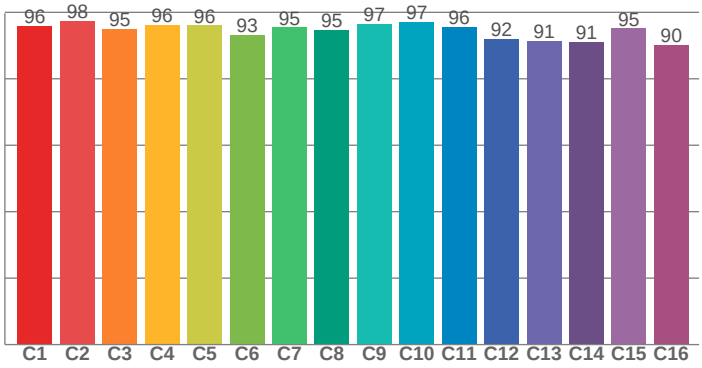


CIE 1931

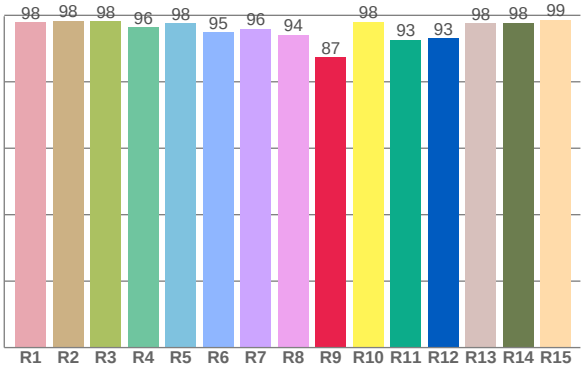


CIE 1931 ZOOM

TM30: 94,9



CRI: 96,7 (R1-R8)



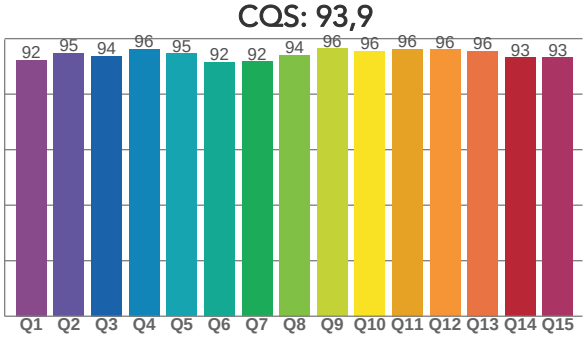
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98,0	98,4	98,3	96,5	97,5	94,8	95,9	94,2	87,5	98,1	92,6	93,0	97,6	97,8	98,6

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96,0	97,5	95,1	96,3	96,1	93,2	95,4	94,8	96,6	97,1	95,6	92,0	91,4	91,1	95,2	90,2

CQS: 93,9



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,2	94,7	93,8	96,2	94,6	91,5	91,7	94,1	96,4	95,6	96,2	96,1	95,6	93,2	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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2714 K	96,7	87,5	94,9	102,7	93,9	97	0,459	0,410	-0,0021

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

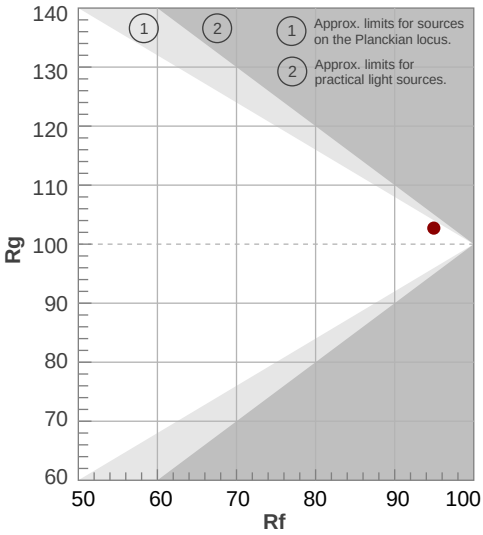
Rf 94,9

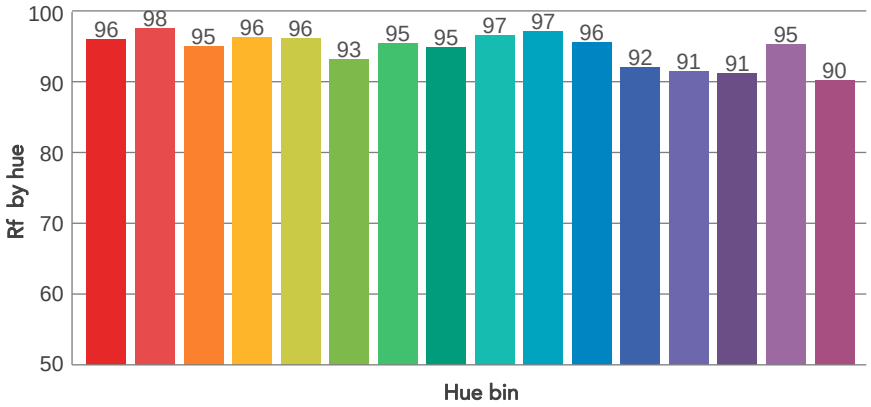
Fidelity index Rf

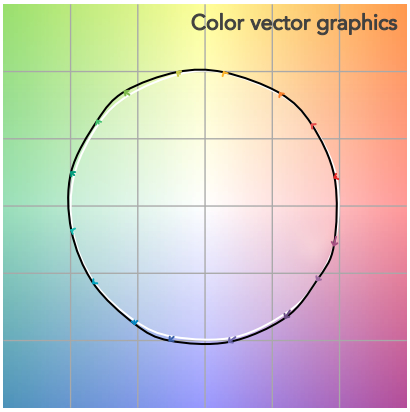
Rg 102,7

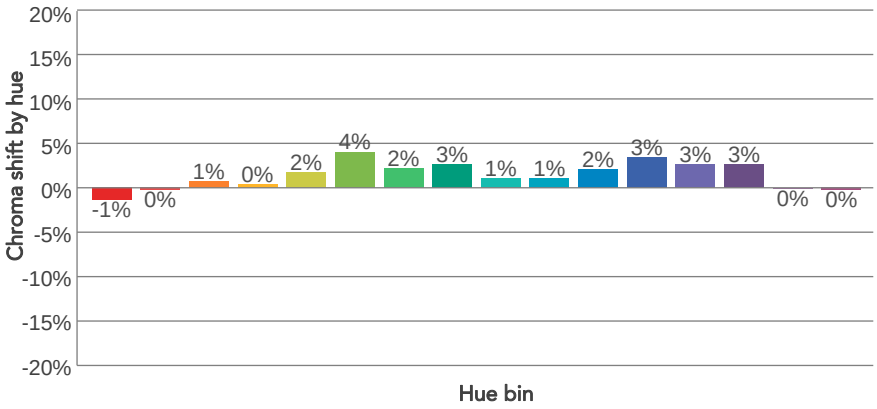
Gammut index

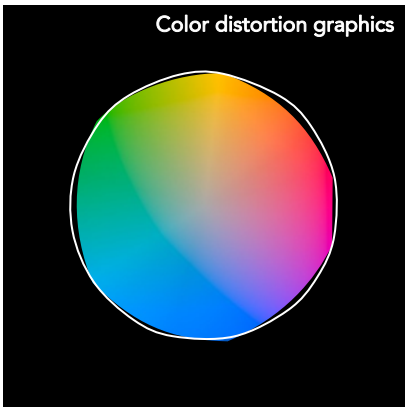
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	-1%	0%
2	98	0%	1%
3	95	1%	2%
4	96	0%	0%
5	96	2%	2%
6	93	4%	2%
7	95	2%	-1%
8	95	3%	-2%
9	97	1%	-1%
10	97	1%	0%
11	96	2%	2%
12	92	3%	-2%
13	91	3%	-5%
14	91	3%	-6%
15	95	0%	-2%
16	90	0%	-7%

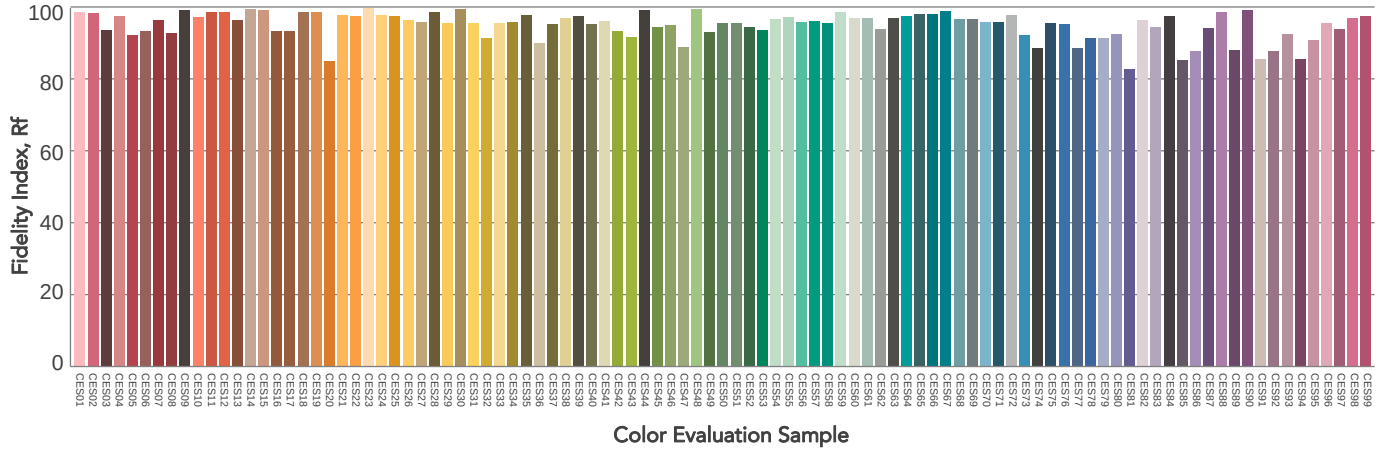












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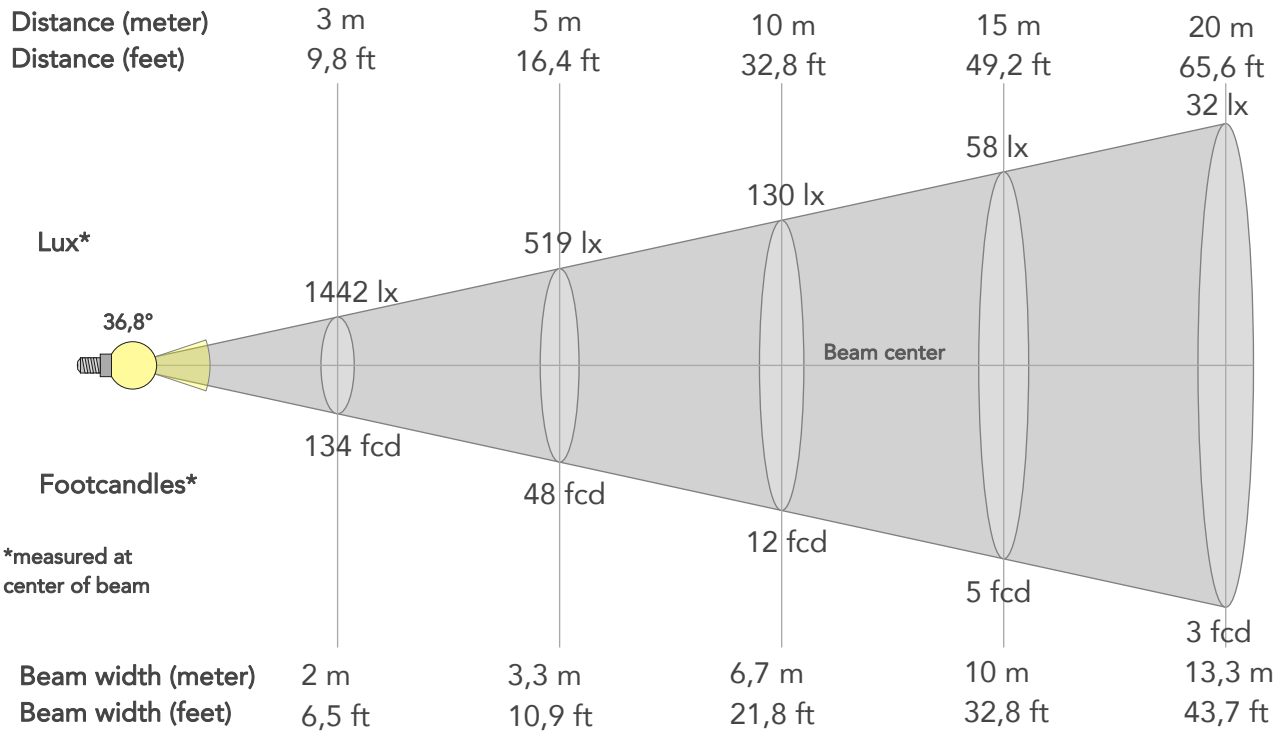
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

prolights.it
info@prolights.it

BEAM DETAILS

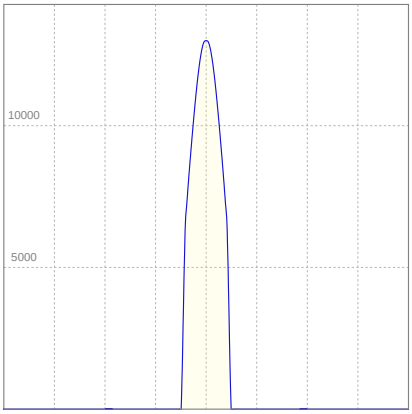
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,8°	42,9°	44°	100,0%	100,0%



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	12980lx	3245lx	1442lx	811lx	519lx	231lx	130lx	58lx	32lx	21lx	14lx	8lx	5lx
Footcand.	1206fcd	301fcd	134fcd	75fcd	48fcd	21fcd	12fcd	5fcd	3fcd	2fcd	1fcd	1fcd	0fcd
Beam wid.	0,7m	1,3m	2m	2,7m	3,3m	5m	6,7m	10m	13,3m	16,6m	20m	26,6m	33,3m
Beam wid.	2,2ft	4,4ft	6,5ft	8,7ft	10,9ft	16,4ft	21,8ft	32,8ft	43,7ft	54,6ft	65,5ft	87,3ft	109,2ft

LINEAR DISTRIBUTION DIAGRAM



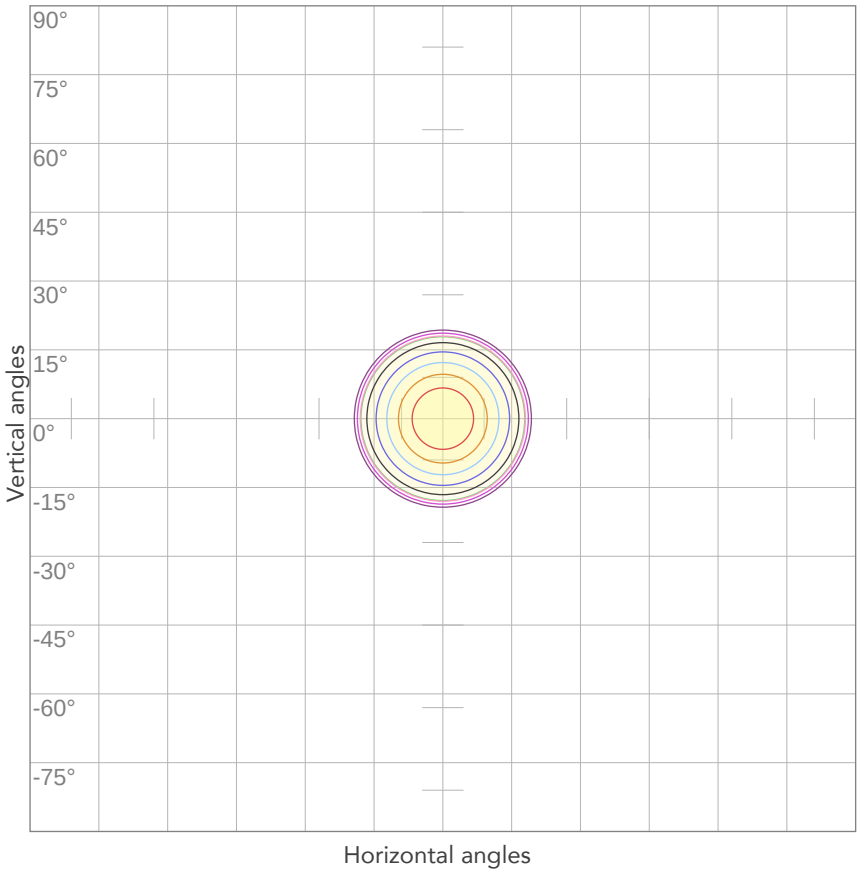
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,626A	132,6W	27lm/W

Power Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



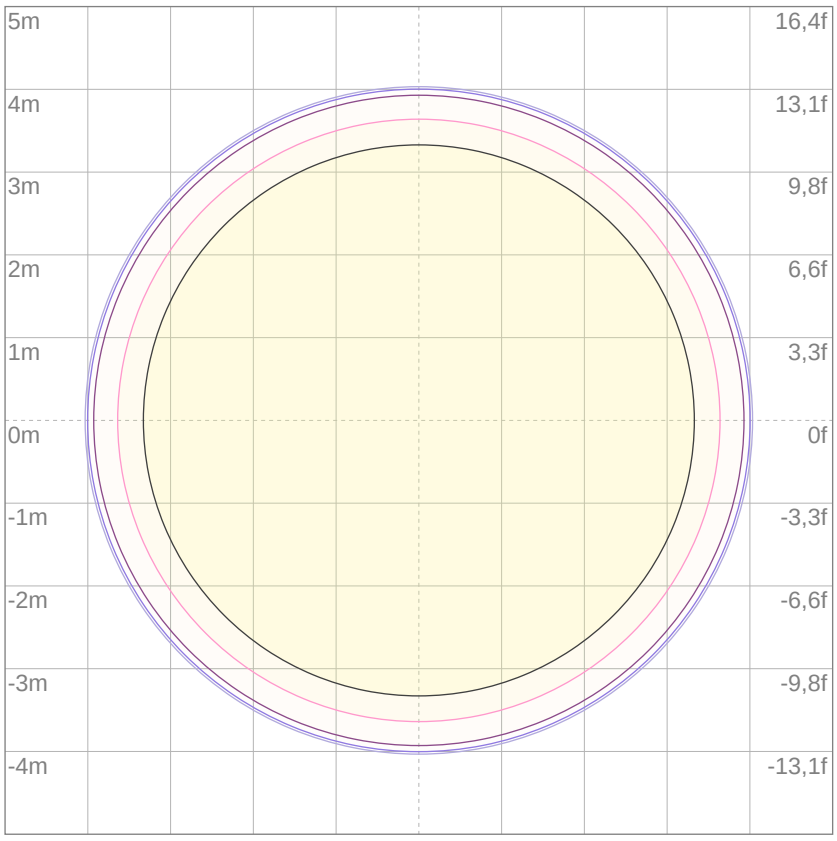
10%	1298 cd
20%	2596 cd
30%	3894 cd
40%	5192 cd
50%	6490 cd
60%	7788 cd
70%	9086 cd
80%	10384 cd

Conditions:

Number of c-planes: 2

Candela at center: 12980 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	3,89 lx
5%	6,49 lx
10%	13,0 lx
30%	38,9 lx
50%	64,9 lx

Conditions:

Number of c-planes: 2

Lux at center: 130 lx

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

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04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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Total lumen output:

3275 lm

Peak candela output:

34584 cd

Light quality:

CRI: 96,6

Color temperature:

2724 K

PRODUCT NAME:

ECLFWVW

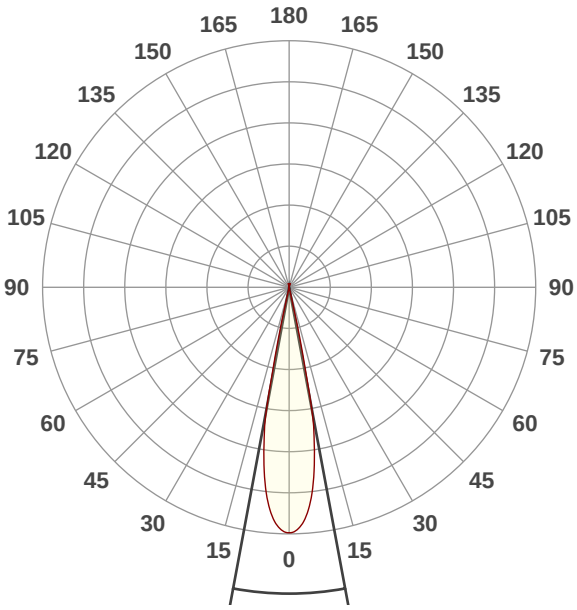
MEASURAMENT CONDITIONS:

Beam angle:
PRL25-50 Min Zoom

Target:
Warm White

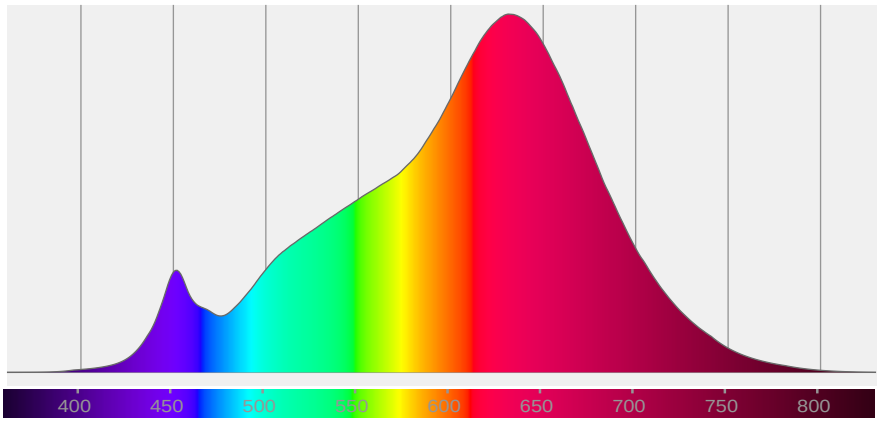
Operator:
Paolo Carvone

Date and time:
11/06/2021 14:49:37

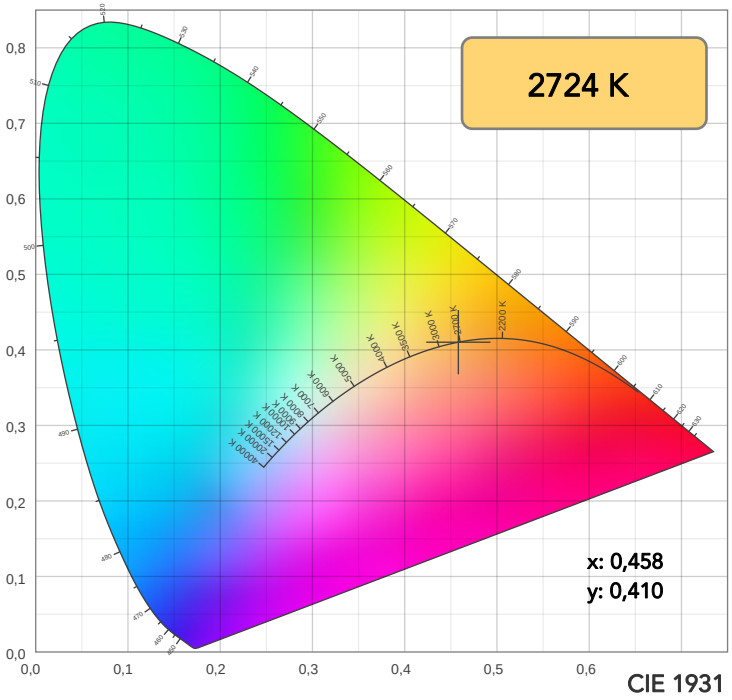


Beam angle 50%: 21,1°
Field angle 10%: 25,2°
Cut off angle 2.5%: 26,2°

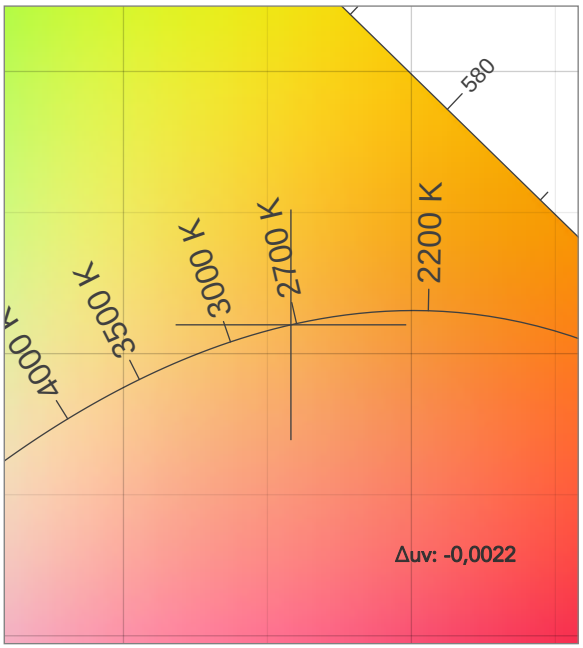
Spectra



COLOR DETAILS

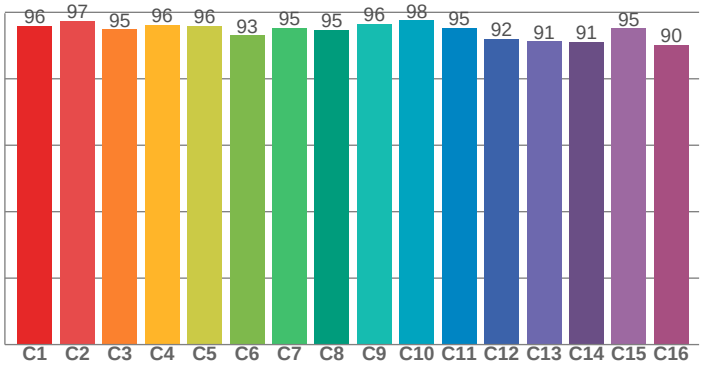


CIE 1931

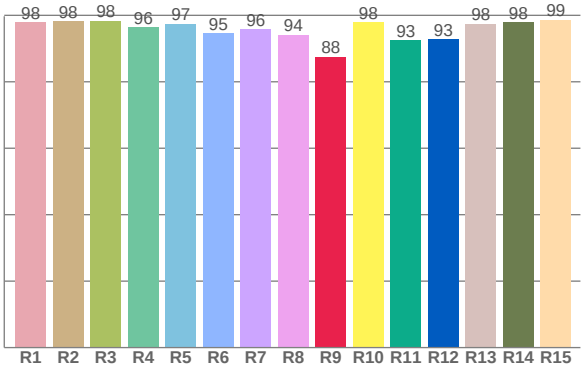


CIE 1931 ZOOM

TM30: 94,9



CRI: 96,6 (R1-R8)



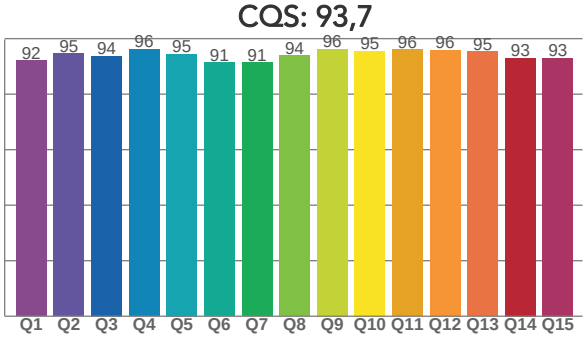
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97,9	98,3	98,3	96,4	97,4	94,7	95,8	94,1	87,5	97,9	92,5	92,8	97,5	97,8	98,7

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
96,0	97,5	94,9	96,2	96,0	93,1	95,3	94,7	96,5	97,6	95,3	91,9	91,3	91,1	95,2	90,2

CQS: 93,7



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,1	94,6	93,8	96,2	94,5	91,3	91,4	93,9	96,2	95,5	96,0	95,9	95,4	93,1	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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2724 K	96,6	87,5	94,9	102,8	93,7	97	0,458	0,410	-0,0022

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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TM30 DETAILS

PROLiGHTS

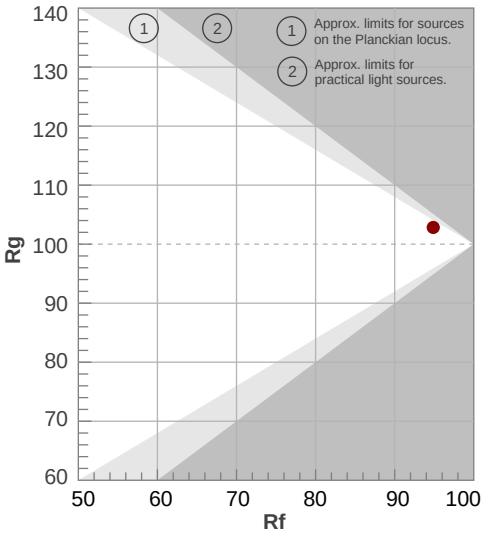
Rf 94,9

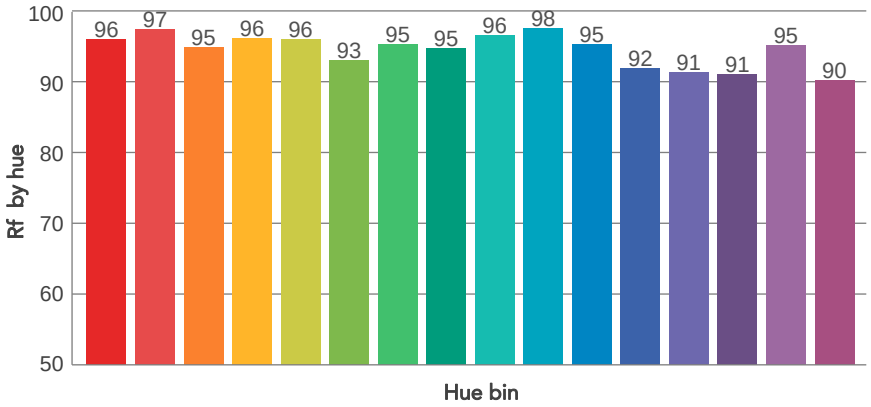
Fidelity index Rf

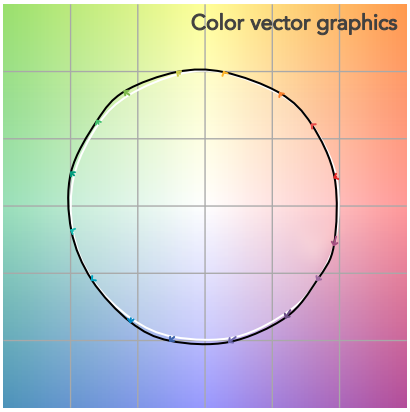
Rg 102,8

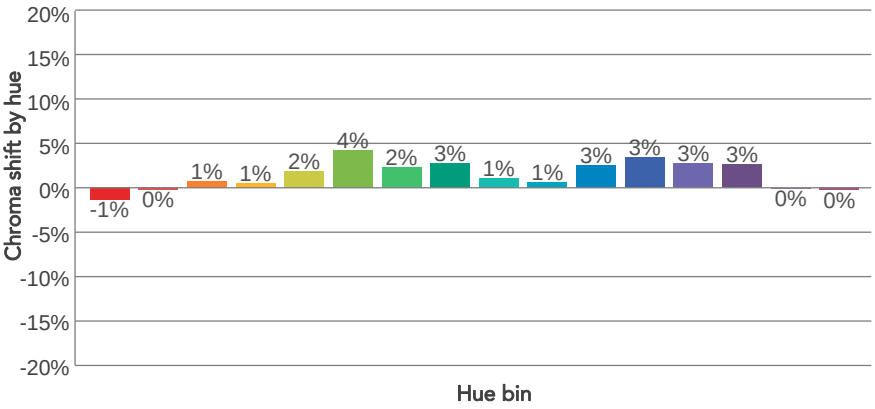
Gammut index

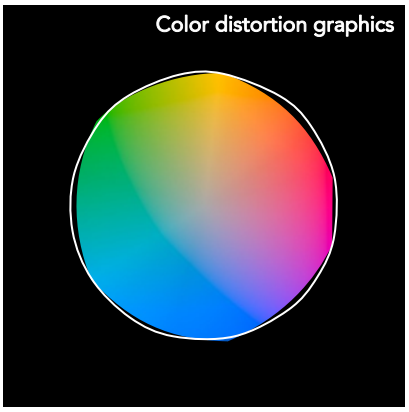
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	-1%	0%
2	97	0%	1%
3	95	1%	2%
4	96	1%	0%
5	96	2%	2%
6	93	4%	1%
7	95	2%	-1%
8	95	3%	-2%
9	96	1%	-1%
10	98	1%	0%
11	95	3%	1%
12	92	3%	-2%
13	91	3%	-6%
14	91	3%	-6%
15	95	0%	-3%
16	90	0%	-7%

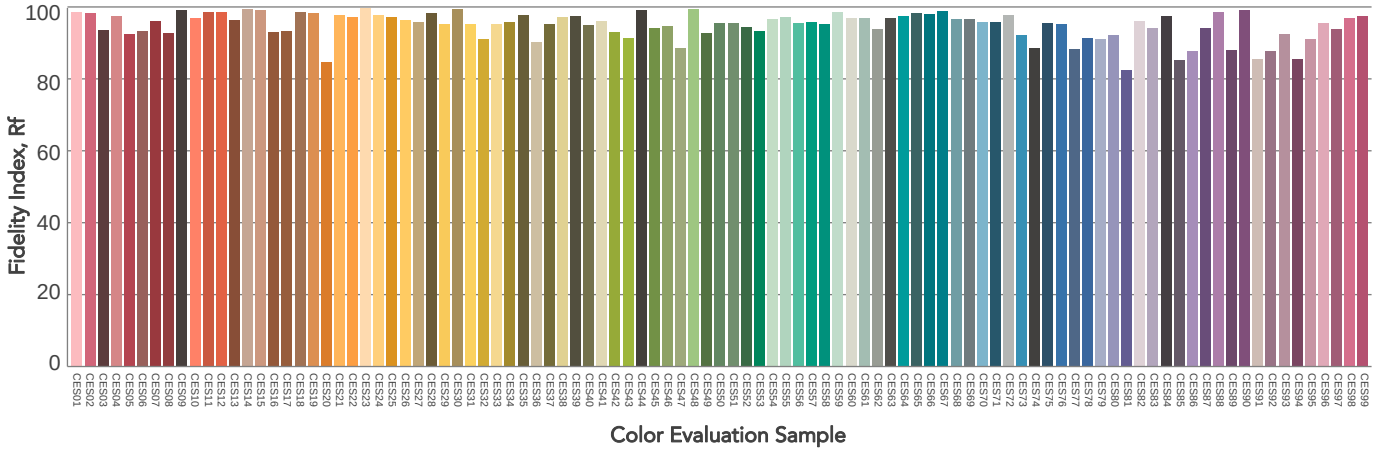












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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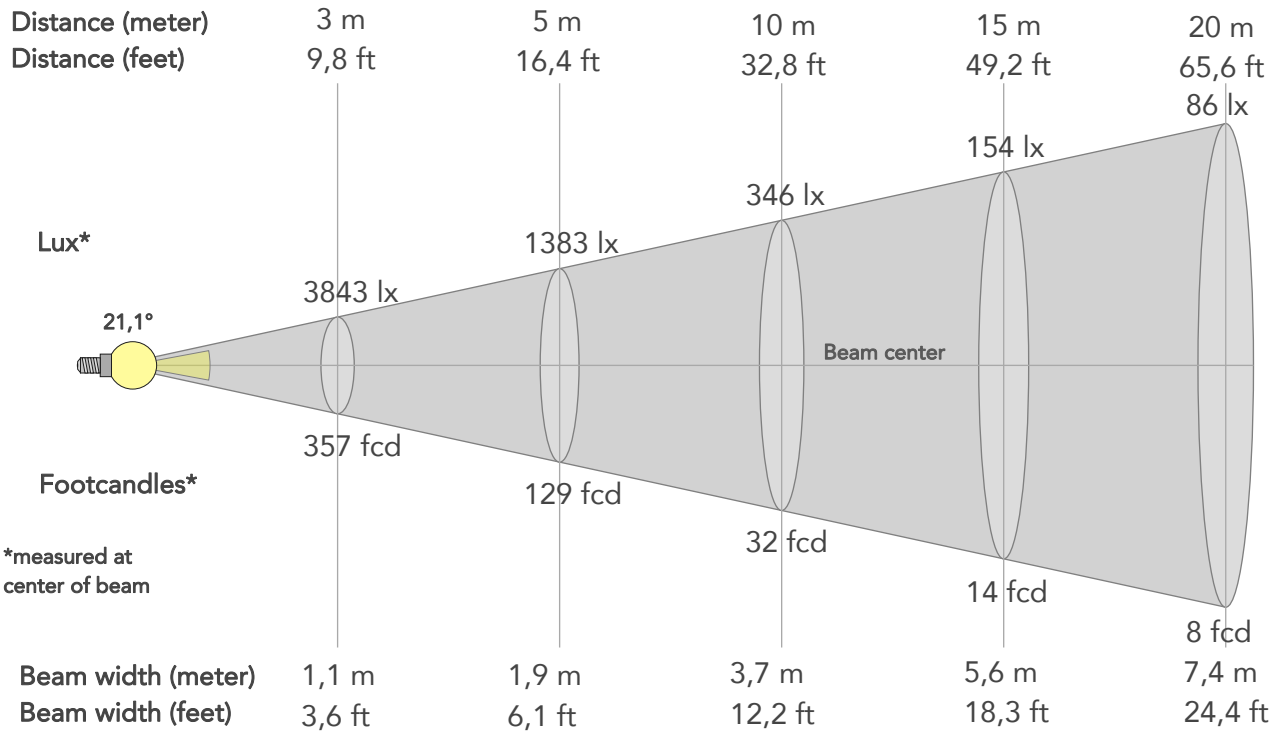
BEAM DETAILS

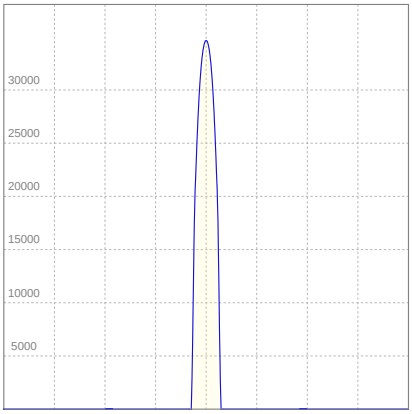
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21,1°	25,2°	26,2°	100,0%	100,0%



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	34584lx	8646lx	3843lx	2161lx	1383lx	615lx	346lx	154lx	86lx	55lx	38lx	22lx	14lx
Footcand.	3213fcd	803fcd	357fcd	201fcd	129fcd	57fcd	32fcd	14fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,4m	0,7m	1,1m	1,5m	1,9m	2,8m	3,7m	5,6m	7,4m	9,3m	11,2m	14,9m	18,6m
Beam wid.	1,2ft	2,5ft	3,6ft	4,9ft	6,1ft	9,2ft	12,2ft	18,3ft	24,4ft	30,5ft	36,6ft	48,8ft	61ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
228V	0,626A	132,5W	25lm/W

Power Fc
0,97

Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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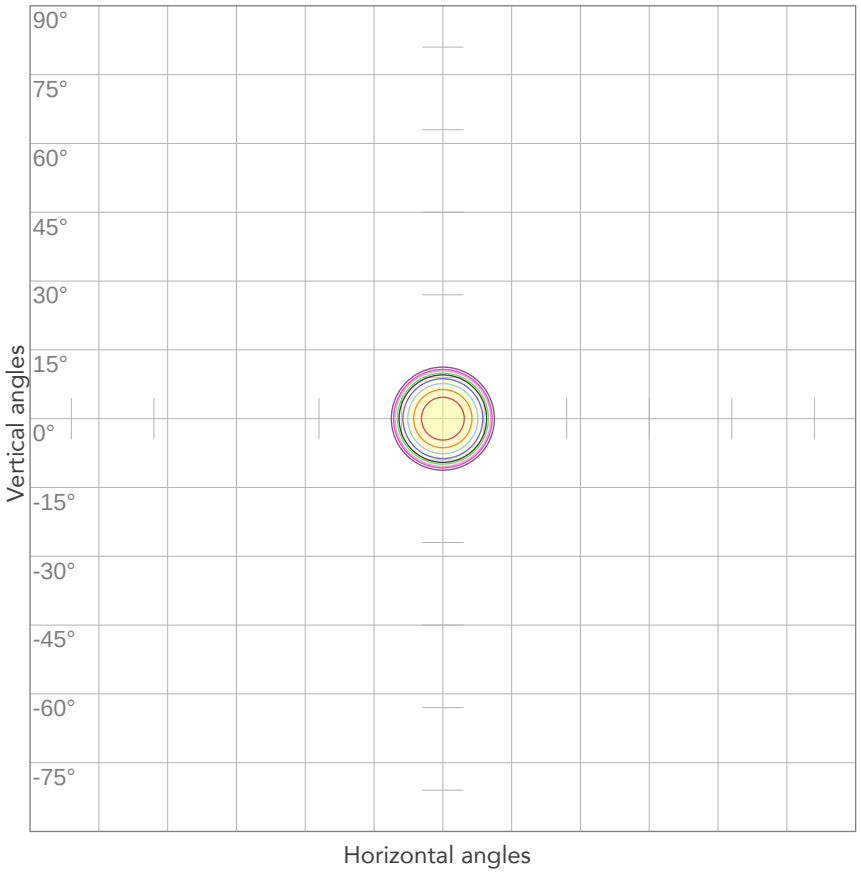
ISO DIAGRAMS

ISO CANDELA DIAGRAM



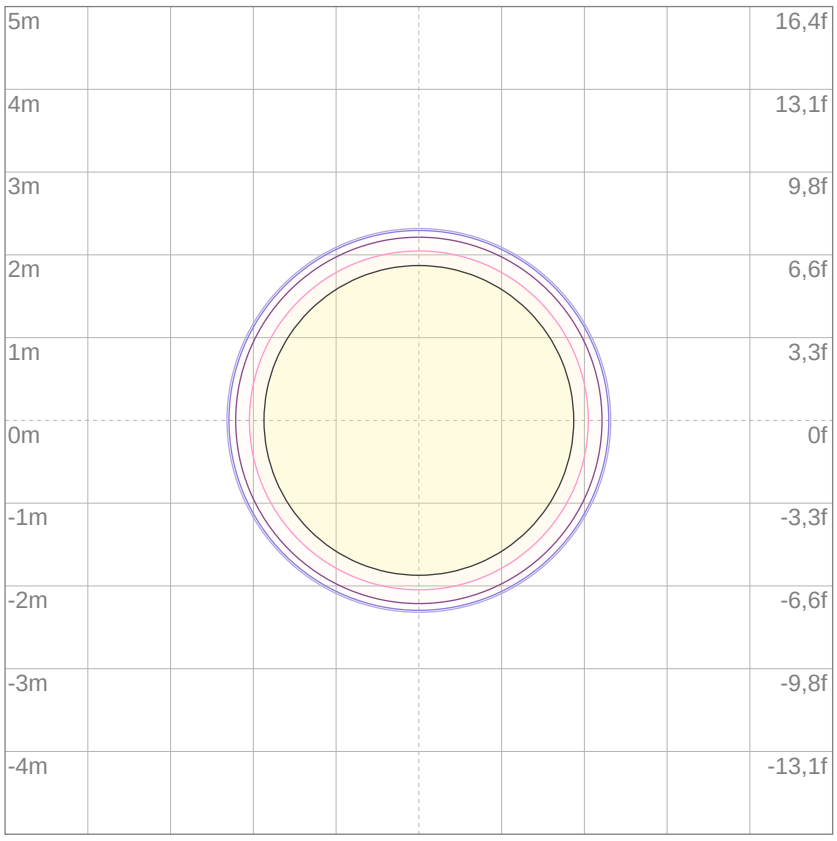
10%	3458 cd
20%	6917 cd
30%	10375 cd
40%	13834 cd
50%	17292 cd
60%	20750 cd
70%	24209 cd
80%	27667 cd

Conditions:

Number of c-planes: 2

Candela at center: 34584 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	10,4 lx
5%	17,3 lx
10%	34,6 lx
30%	104 lx
50%	173 lx

Conditions:

Number of c-planes: 2

Lux at center: 346 lx

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