Photometric Test Report

ASTRAPROFILE600IP

IP65 LED Moving Profile, with a 600W

White source

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:

21200 lm

Peak candela output:

28948 cd

Light quality:

CRI: 69,4

Color temperature:

6763 K

PRODUCT NAME:

ASTRAPROFILE600IP

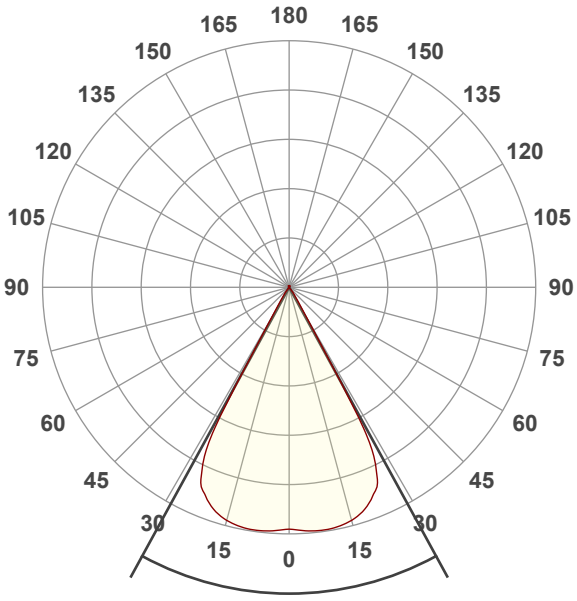
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
Full On

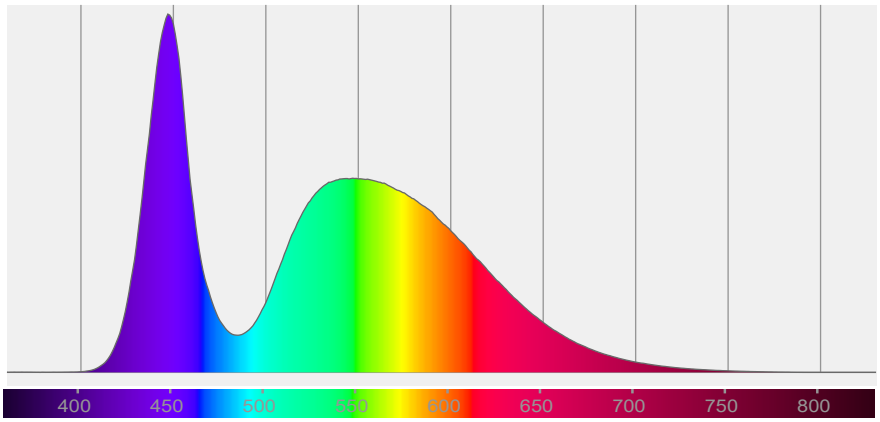
Operator:
Salvatore Giglio

Date and time:
28/11/2022 10:44:41

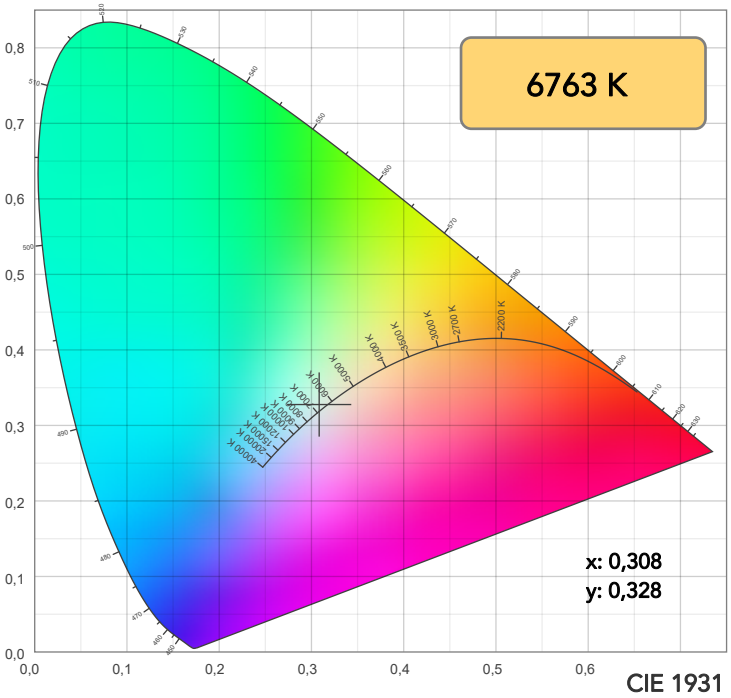


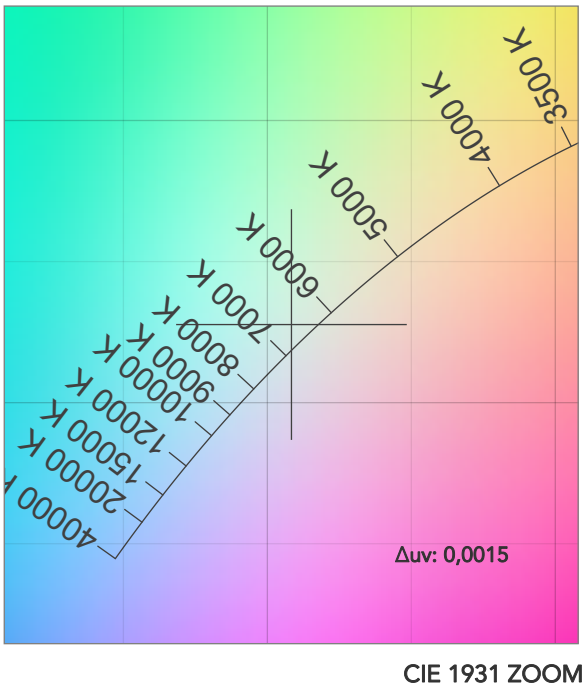
Beam angle 50%: 57,3°
Field angle 10%: 61,8°
Cut off angle 2.5%: 66,2°

Spectra

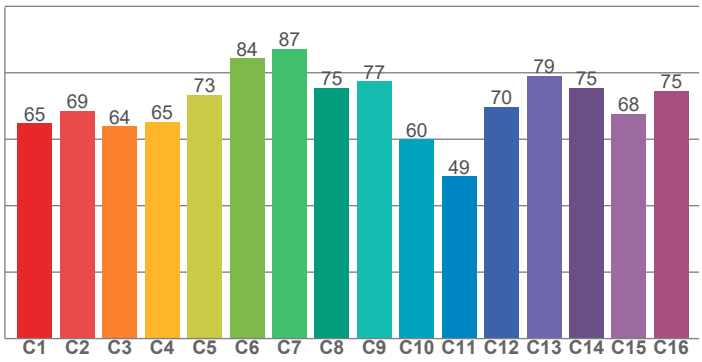


COLOR DETAILS

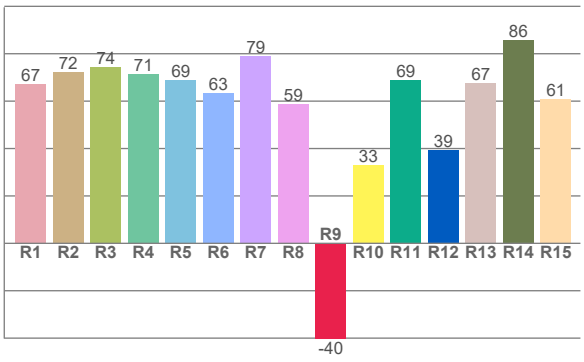




TM30: 70,6



CRI: 69,4 (R1-R8)



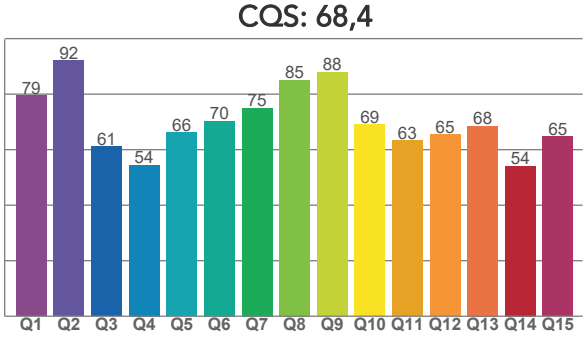
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
67,2	72,3	74,4	71,3	68,8	63,4	78,8	58,6	-40,2	33,0	68,8	39,3	67,4	85,5	60,8

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
64,8	68,6	63,9	65,2	73,3	84,3	87,3	75,4	77,4	60,0	48,8	69,8	79,0	75,4	67,7	74,6

CQS: 68,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,5	92,0	61,1	54,5	66,2	70,3	75,0	85,1	87,9	69,0	63,3	65,4	68,5	54,1	64,7

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6763 K	69,4	-40,2	70,6	93,3	68,4	46	0,308	0,328	0,0015

TM30 DETAILS

PROLiGHTS

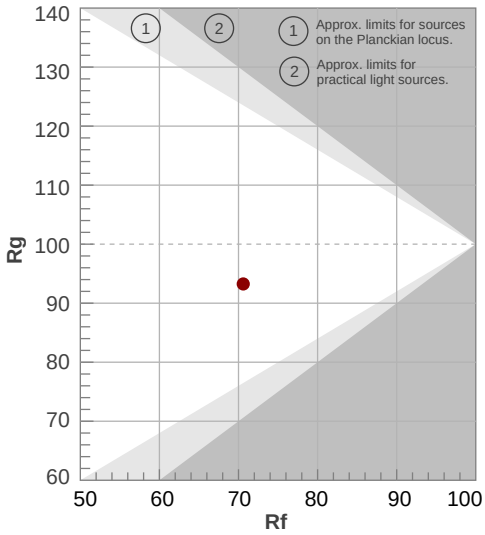
Rf 70,6

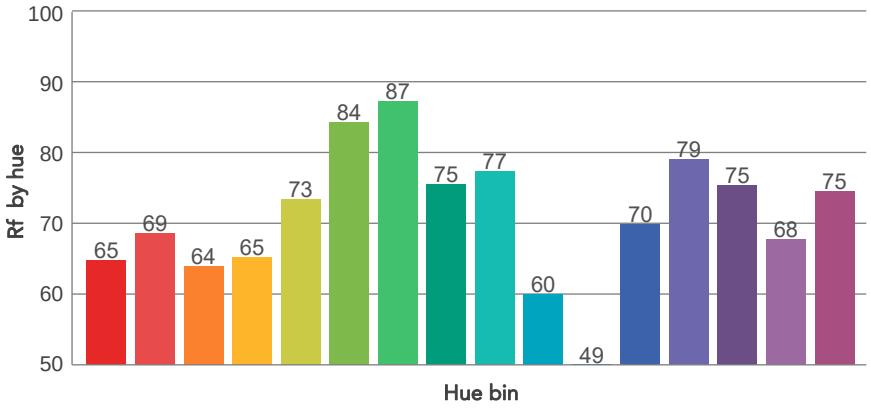
Fidelity index Rf

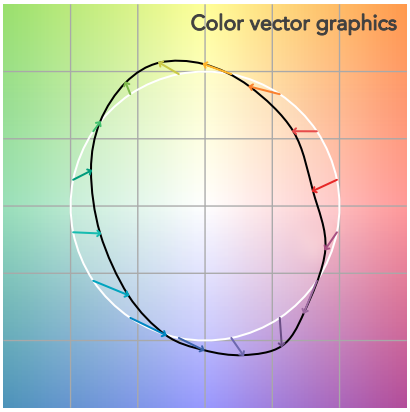
Rg 93,3

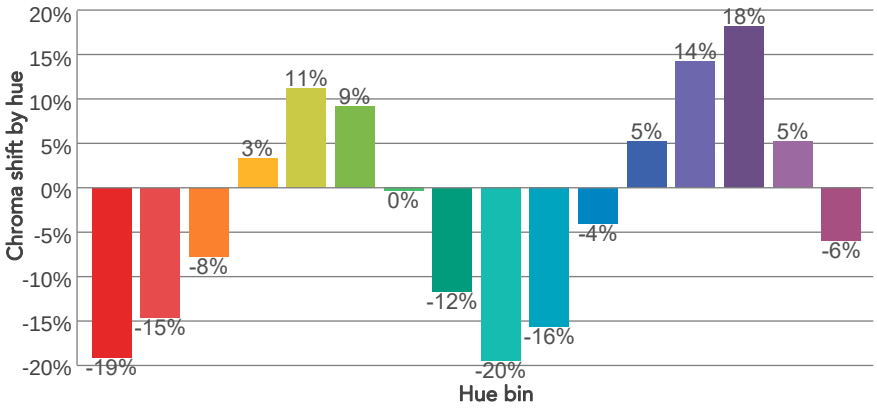
Gammut index

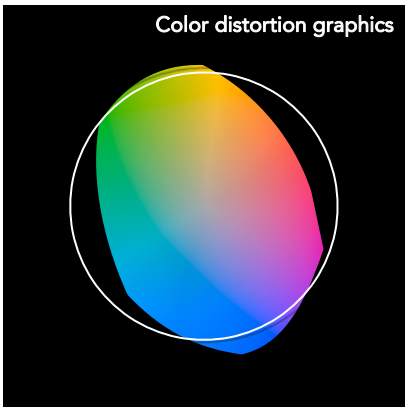
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	65	-19%	-5%
2	69	-15%	10%
3	64	-8%	22%
4	65	3%	22%
5	73	11%	13%
6	84	9%	-2%
7	87	0%	-8%
8	75	-12%	-9%
9	77	-20%	5%
10	60	-16%	23%
11	49	-4%	29%
12	70	5%	20%
13	79	14%	6%
14	75	18%	-10%
15	68	5%	-25%
16	75	-6%	-14%

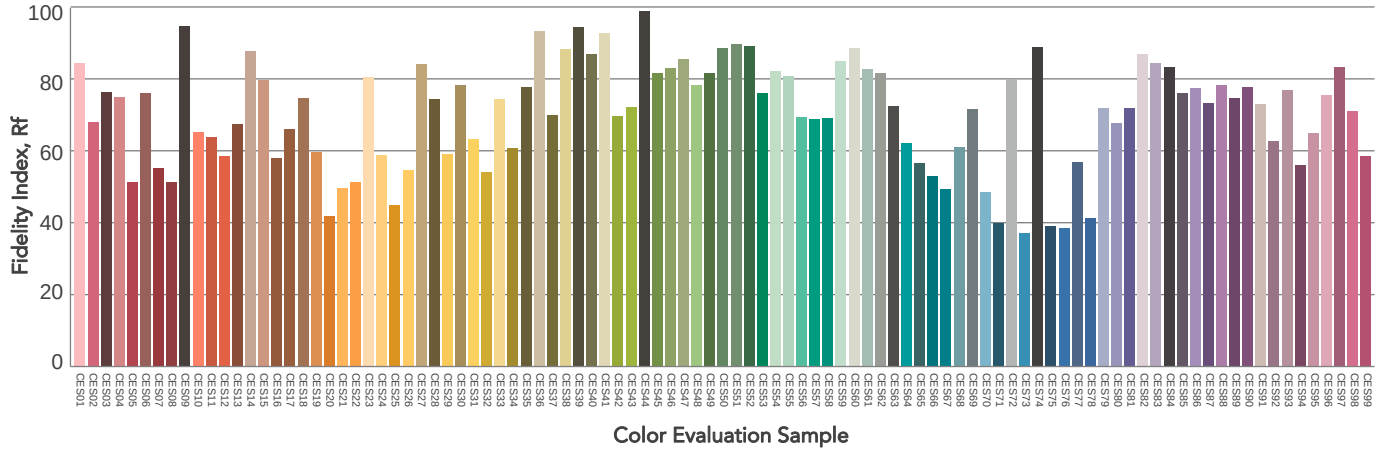












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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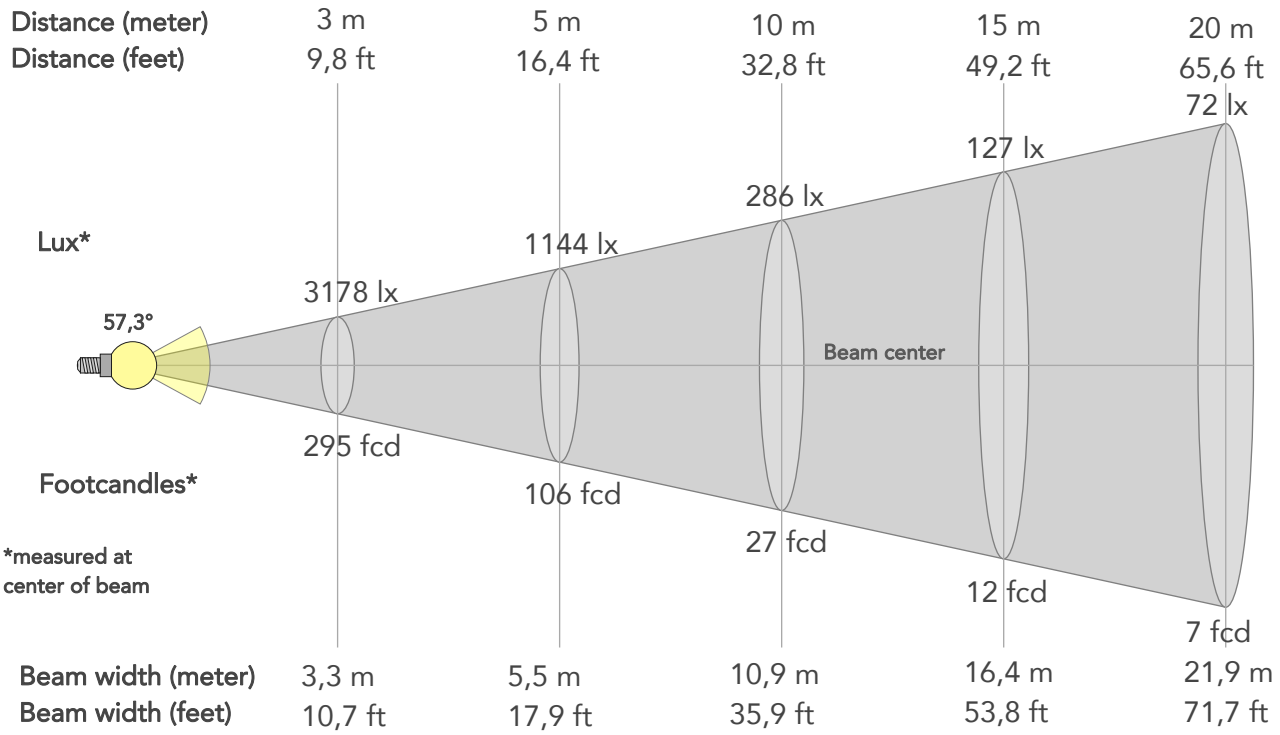
info@prolights.it

BEAM DETAILS

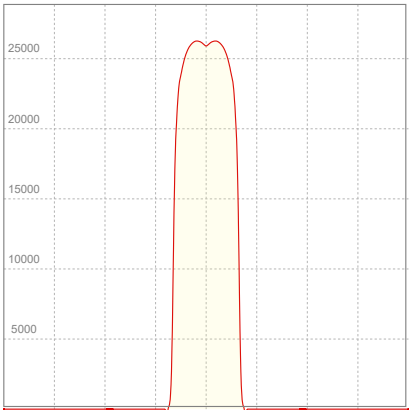
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,3°	61,8°	66,2°	100,0%	100,0%



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	28601lx	7150lx	3178lx	1788lx	1144lx	508lx	286lx	127lx	72lx	46lx	32lx	18lx	11lx
Footcand.	2657fcd	664fcd	295fcd	166fcd	106fcd	47fcd	27fcd	12fcd	7fcd	4fcd	3fcd	2fcd	1fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,2m	10,9m	16,4m	21,9m	27,3m	32,8m	43,7m	54,7m
Beam wid.	3,6ft	7,2ft	10,7ft	14,3ft	17,9ft	26,9ft	35,9ft	53,8ft	71,7ft	89,7ft	107,6ft	143,5ft	179,3ft

LINEAR DISTRIBUTION DIAGRAM



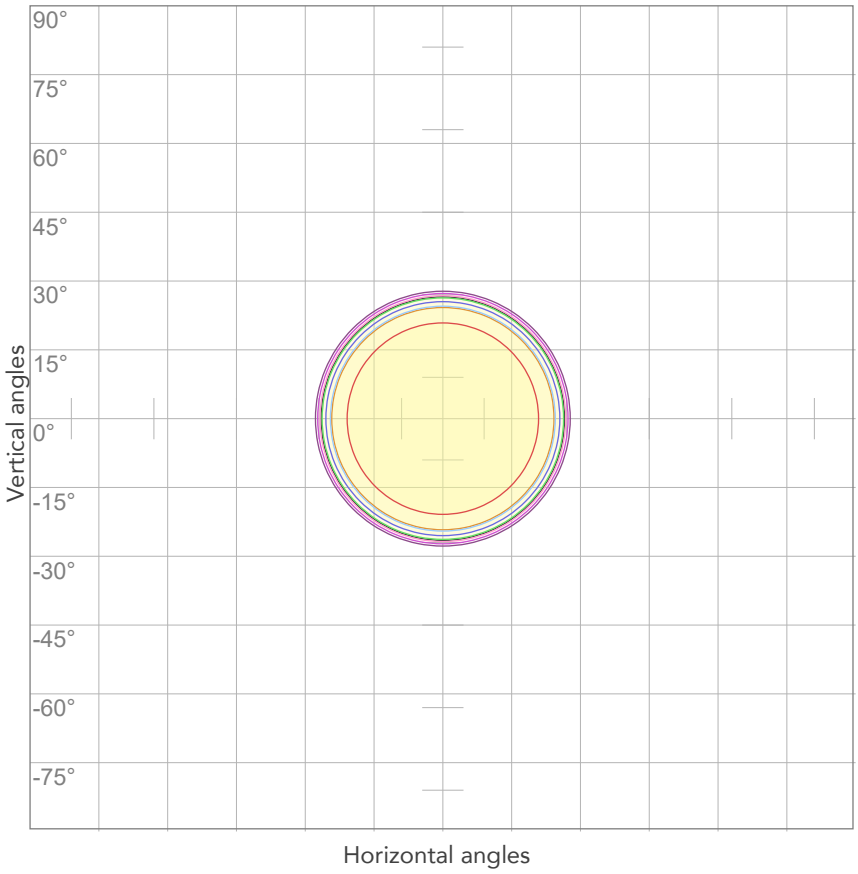
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	3,36A	742,5W	29lm/W

Powe Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



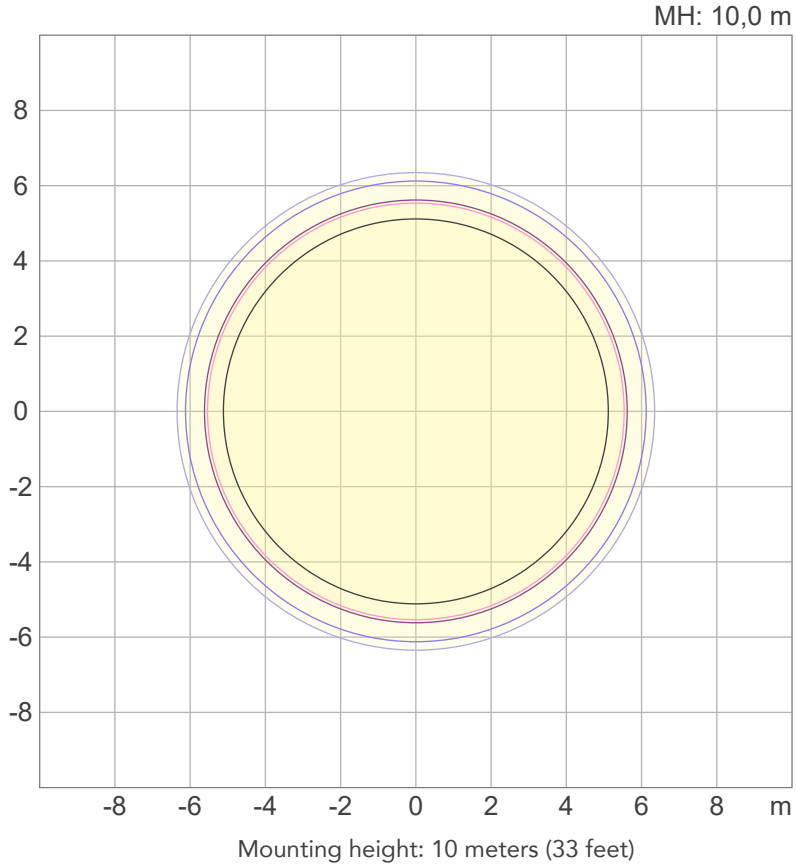
10%	2860 cd
20%	5720 cd
30%	8580 cd
40%	11440 cd
50%	14301 cd
60%	17161 cd
70%	20021 cd
80%	22881 cd

Conditions:

Number of c-planes: 2

Candela at center: 28601 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	8,58 lx
5%	14,3 lx
10%	28,6 lx
30%	85,8 lx
50%	143 lx

Conditions:

Number of c-planes: 2

Lux at center: 286 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:

20337 lm

Peak candela output:

167884 cd

Light quality:

CRI: 69,4

Color temperature:

6754 K

PRODUCT NAME:

ASTRAPROFILE600IP

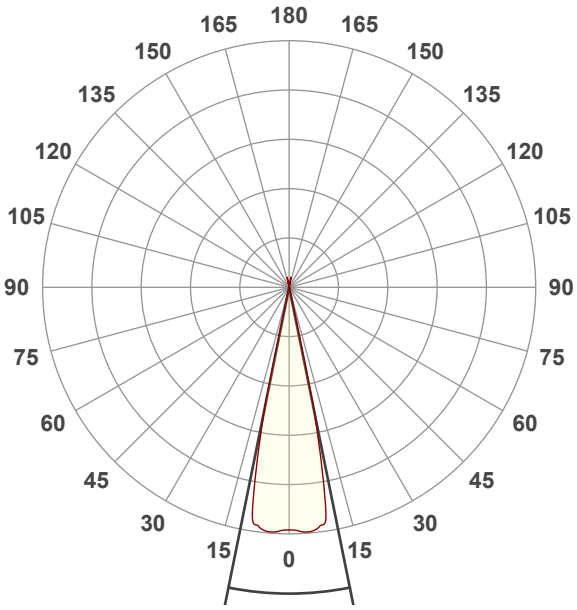
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
Full On

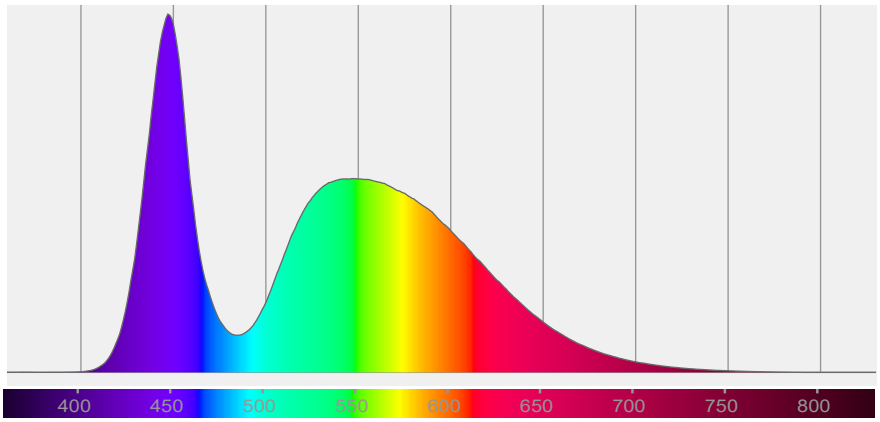
Operator:
Salvatore Giglio

Date and time:
28/11/2022 10:42:23

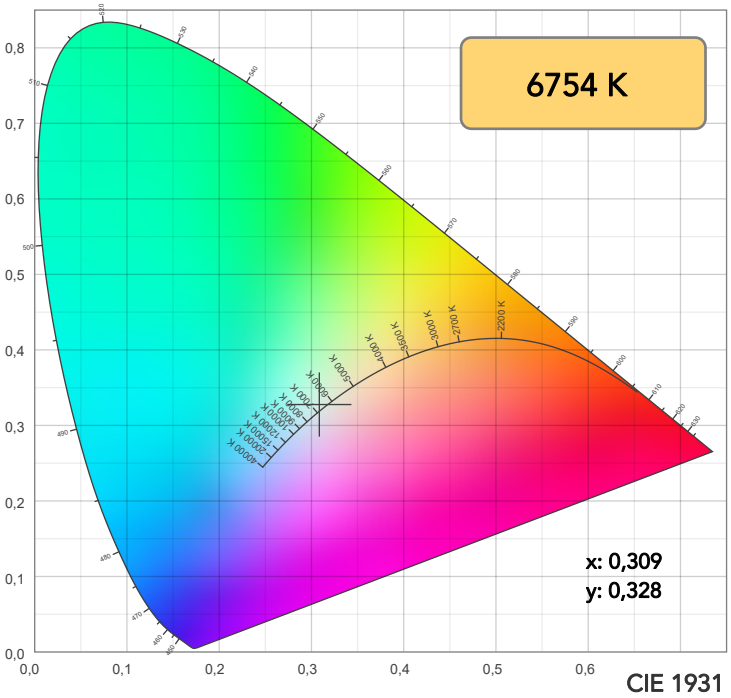


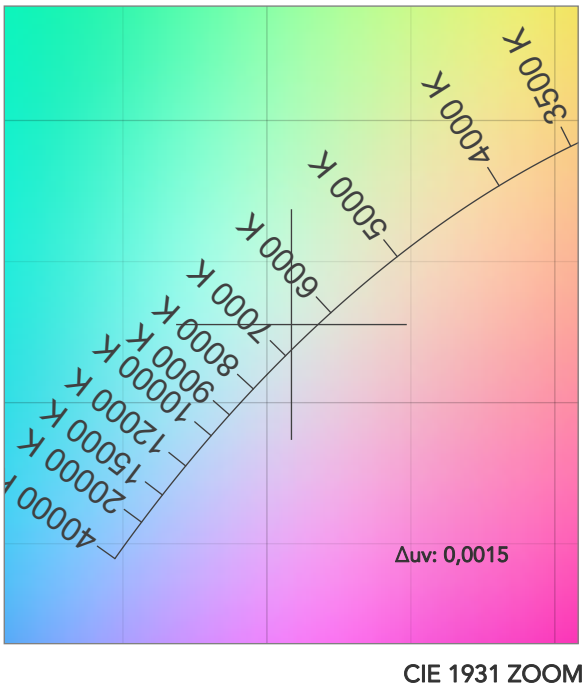
Beam angle 50%: 22,8°
Field angle 10%: 25,9°
Cut off angle 2.5%: 26,4°

Spectra

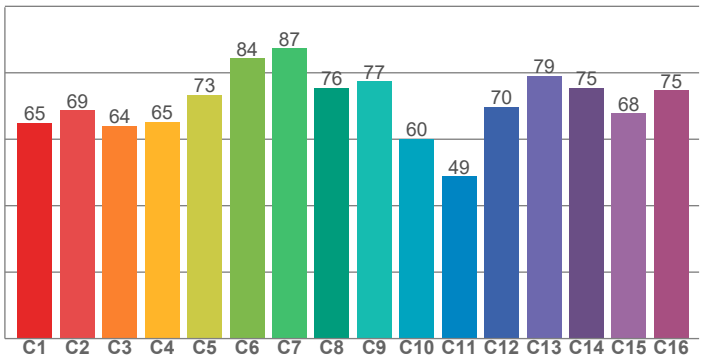


COLOR DETAILS





TM30: 70,6



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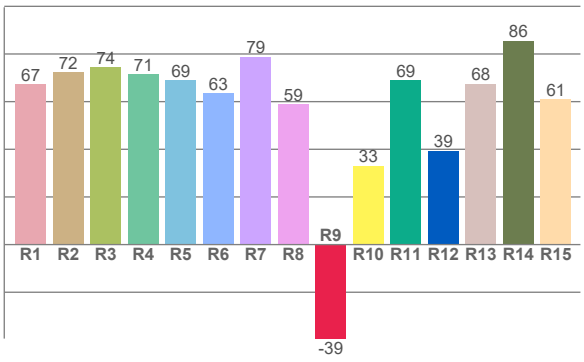


CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
67,4	72,4	74,4	71,4	68,9	63,5	78,8	58,8	-39,5	33,1	69,0	39,4	67,5	85,5	61,0

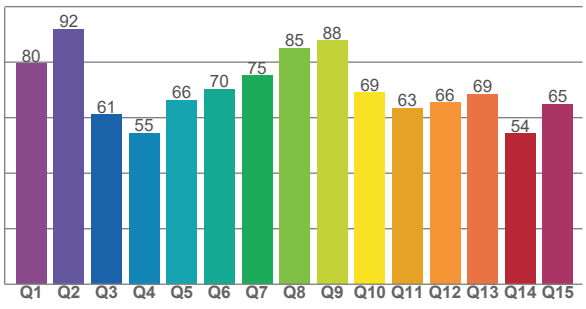
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64,9	68,7	64,0	65,2	73,3	84,3	87,3	75,5	77,4	60,1	48,8	69,8	79,0	75,5	67,8	74,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,5	92,0	61,1	54,5	66,3	70,4	75,1	85,2	87,8	69,0	63,4	65,5	68,6	54,3	64,9

CQS: 68,5



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
6754 K	69,4	-39,5	70,6	93,3	68,5	46	0,309	0,328	0,0015

TM30 DETAILS

PROLiGHTS

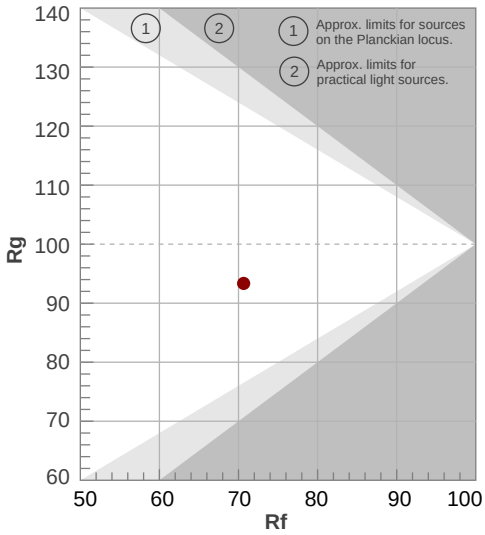
Rf 70,6

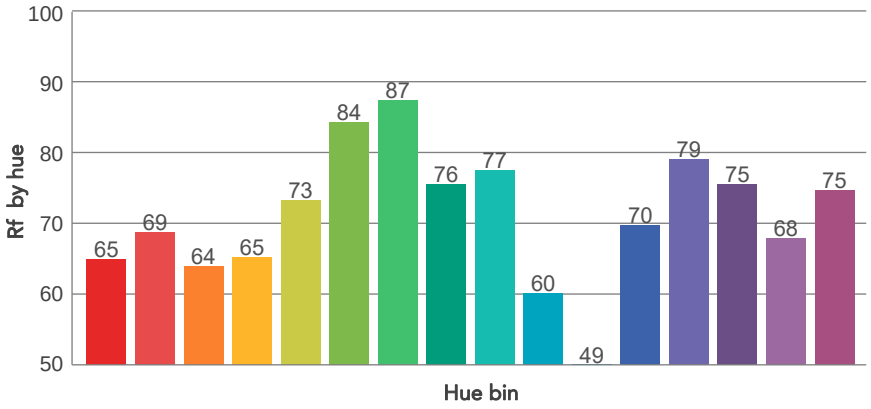
Fidelity index Rf

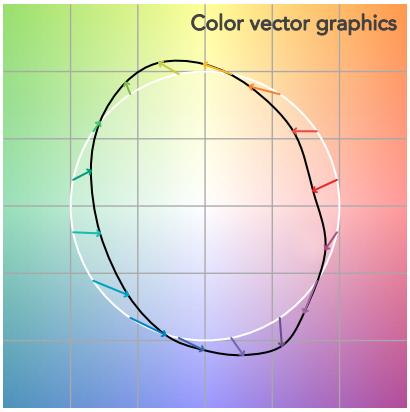
Rg 93,3

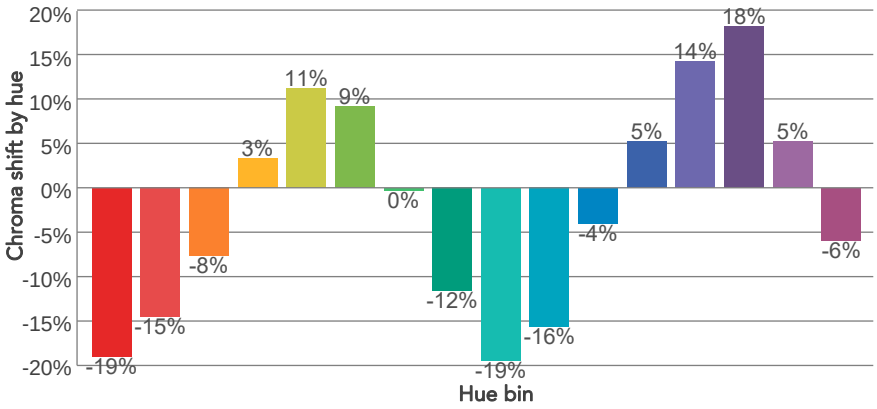
Gammut index

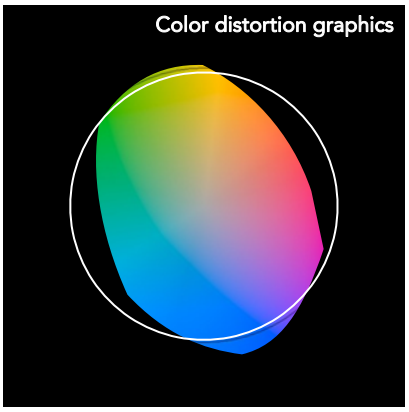
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	65	-19%	-5%
2	69	-15%	10%
3	64	-8%	22%
4	65	3%	21%
5	73	11%	13%
6	84	9%	-2%
7	87	0%	-8%
8	76	-12%	-9%
9	77	-19%	5%
10	60	-16%	23%
11	49	-4%	29%
12	70	5%	20%
13	79	14%	6%
14	75	18%	-10%
15	68	5%	-25%
16	75	-6%	-14%

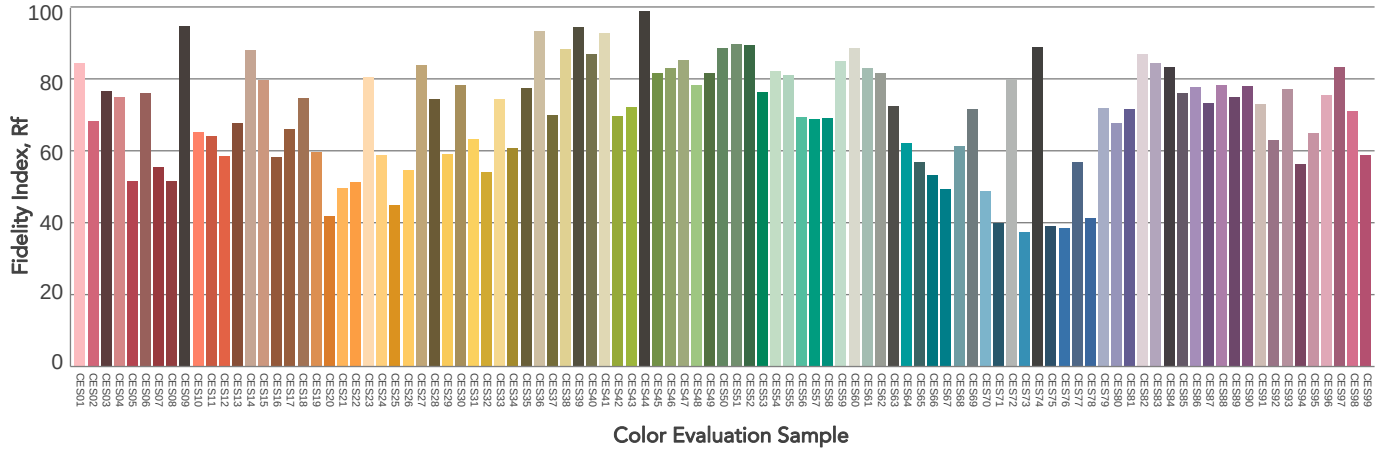












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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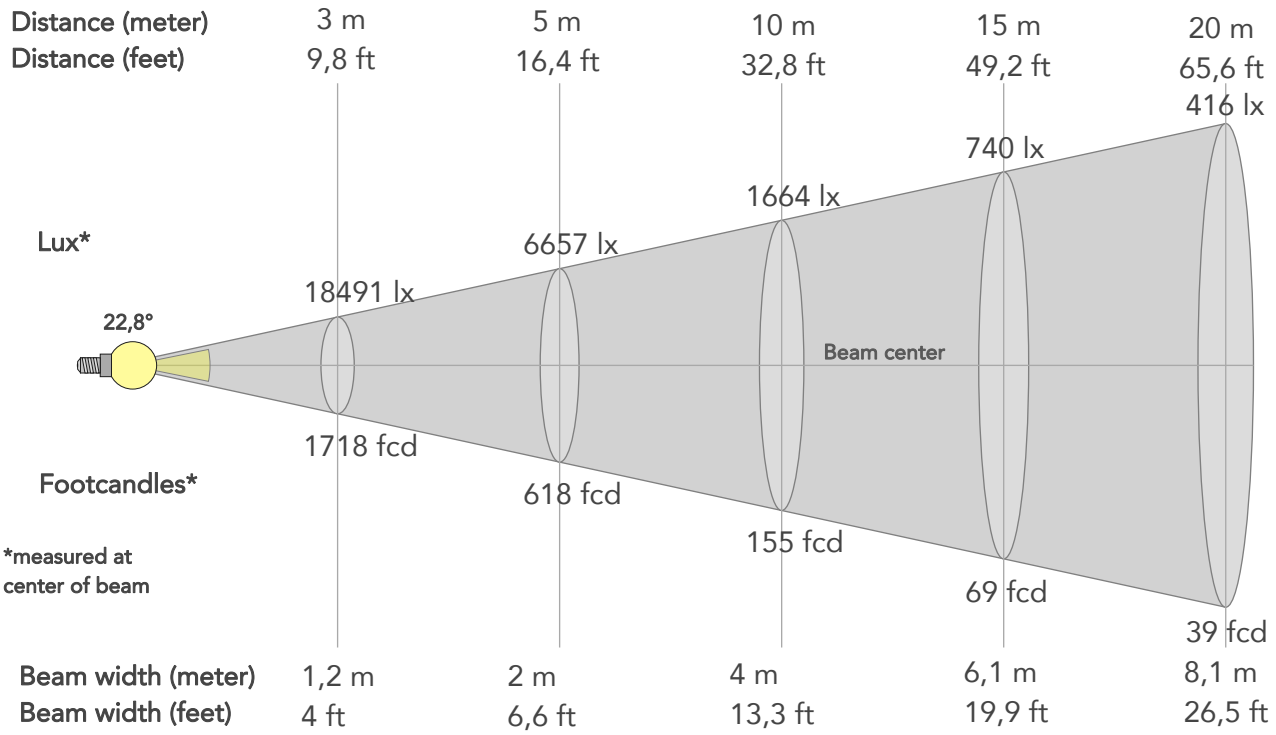
BEAM DETAILS

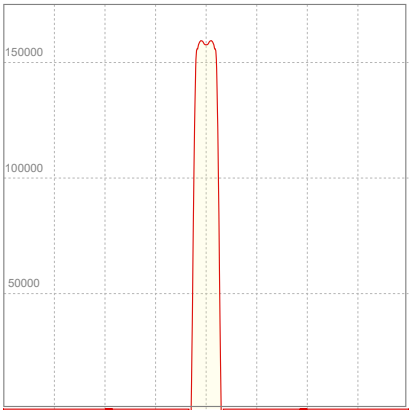
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,8°	25,9°	26,4°	100,0%	100,0%



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	166417lx	41604lx	18491lx	10401lx	6657lx	2959lx	1664lx	740lx	416lx	266lx	185lx	104lx	67lx
Footcand.	15461fcd	3865fcd	1718fcd	966fcd	618fcd	275fcd	155fcd	69fcd	39fcd	25fcd	17fcd	10fcd	6fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	6,1m	8,1m	10,1m	12,1m	16,2m	20,2m
Beam wid.	1,3ft	2,7ft	4ft	5,3ft	6,6ft	9,9ft	13,3ft	19,9ft	26,5ft	33,1ft	39,8ft	53ft	66,3ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	3,36A	742,9W	27lm/W

Powe Fc
0,97

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

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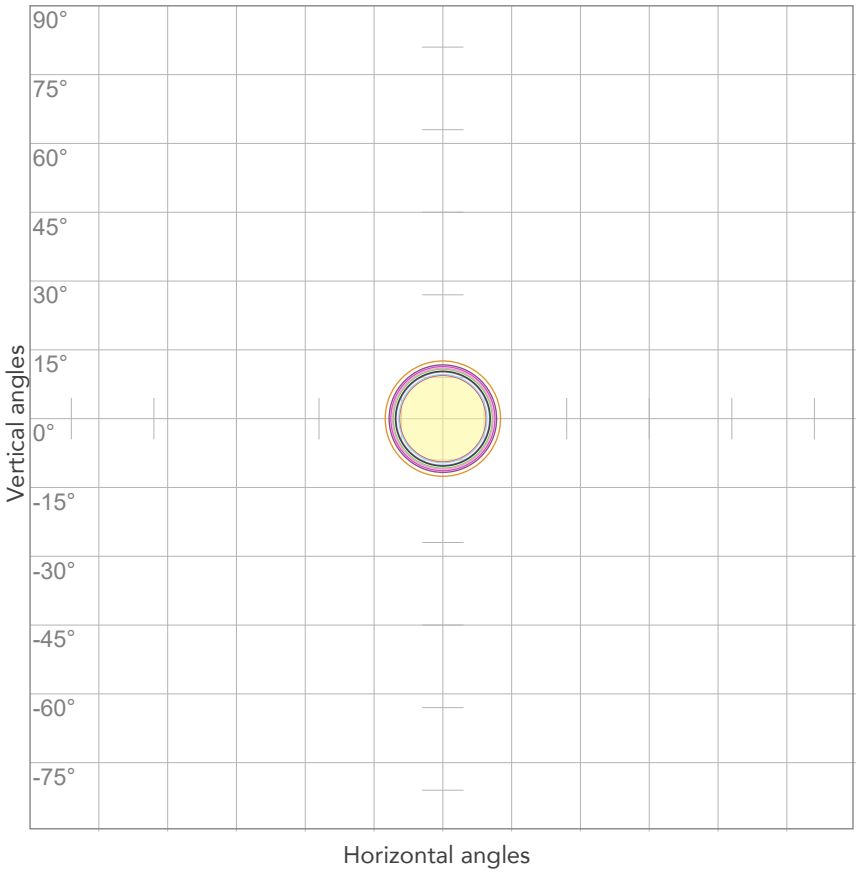
ISO DIAGRAMS

ISO CANDELA DIAGRAM



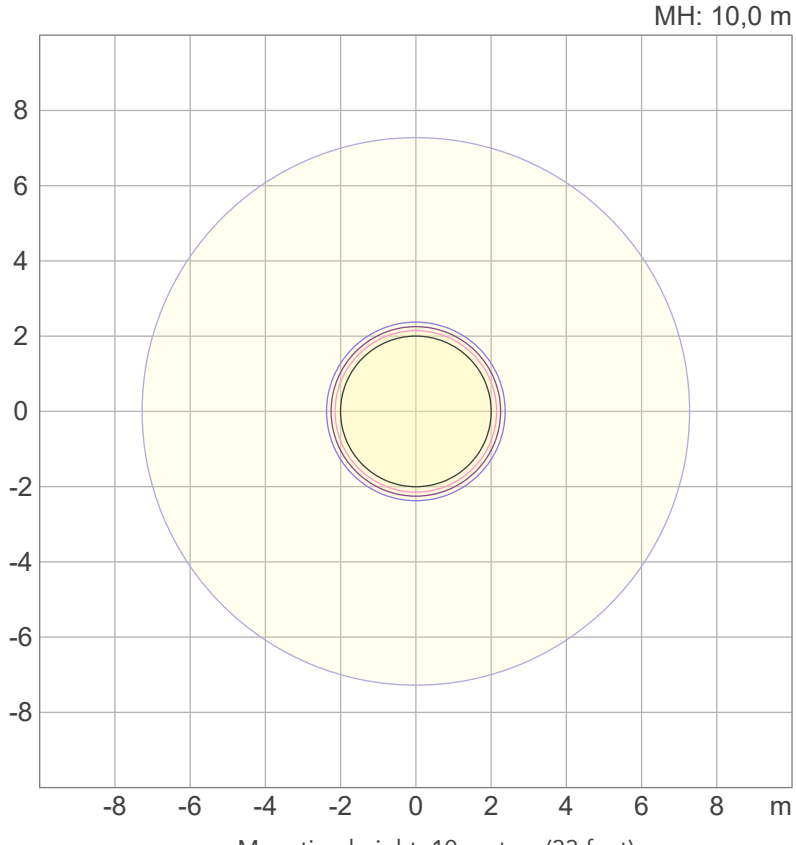
10%	16642 cd
20%	33283 cd
30%	49925 cd
40%	66567 cd
50%	83209 cd
60%	99850 cd
70%	116492 cd
80%	133134 cd

Conditions:

Number of c-planes: 2

Candela at center: 166417 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	49,9 lx
5%	83,2 lx
10%	166 lx
30%	499 lx
50%	832 lx

Conditions:

Number of c-planes: 2

Lux at center: 1664 lx

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

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Total lumen output:

14877 lm

Peak candela output:

1439222 cd

Light quality:

CRI: 69,4

Color temperature:

6768 K

PRODUCT NAME:

ASTRAPROFILE600IP

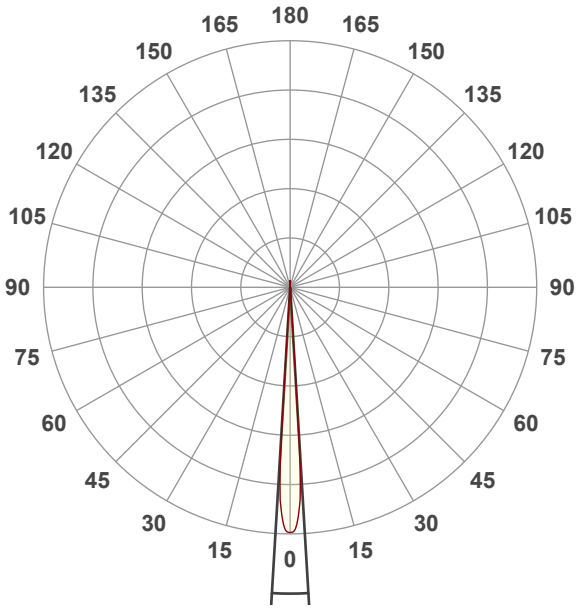
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
Full On

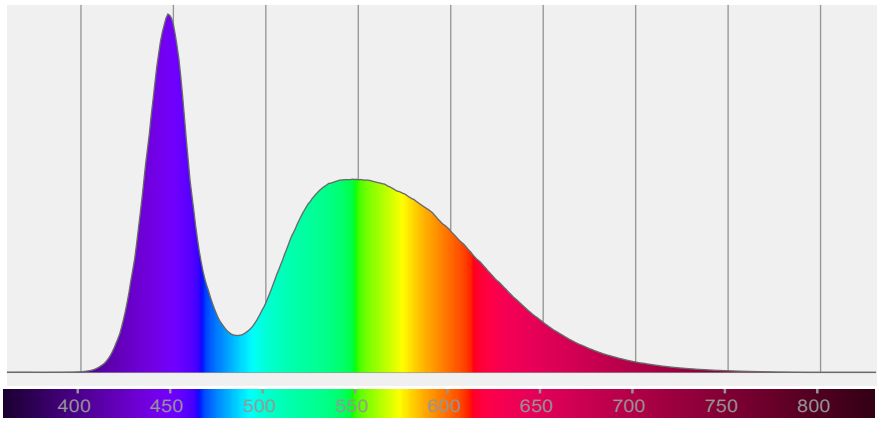
Operator:
Salvatore Giglio

Date and time:
28/11/2022 10:40:24



Beam angle 50%: 6,8°
Field angle 10%: 7,5°
Cut off angle 2.5%: 8°

Spectra



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

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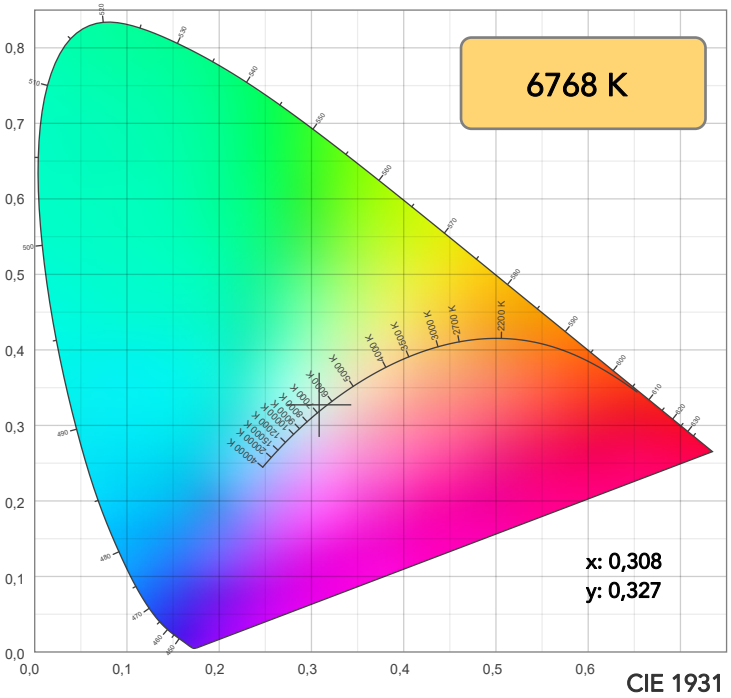
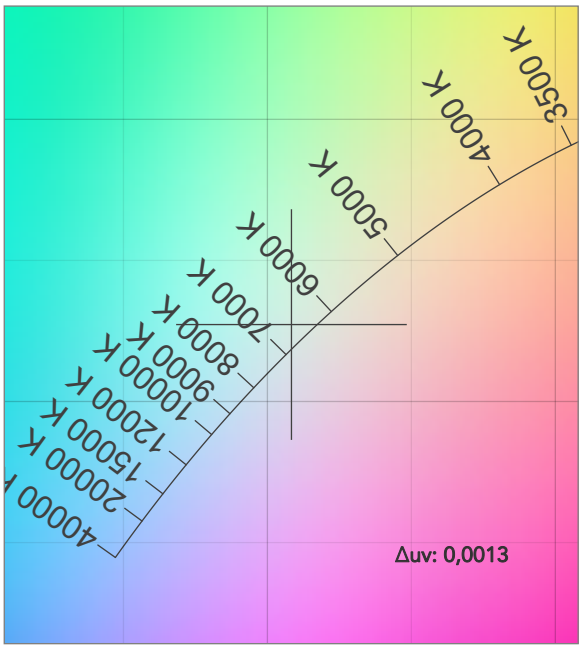
COLOR DETAILS

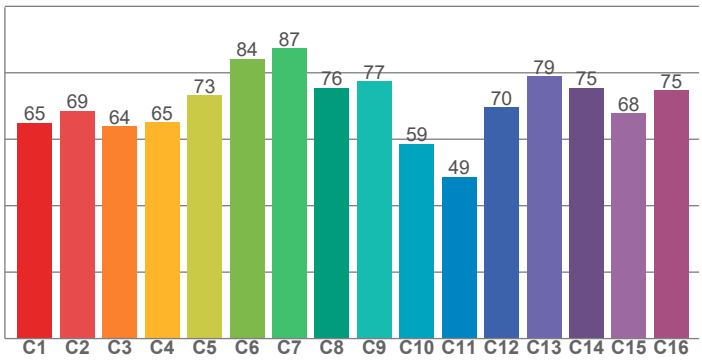


CIE 1931

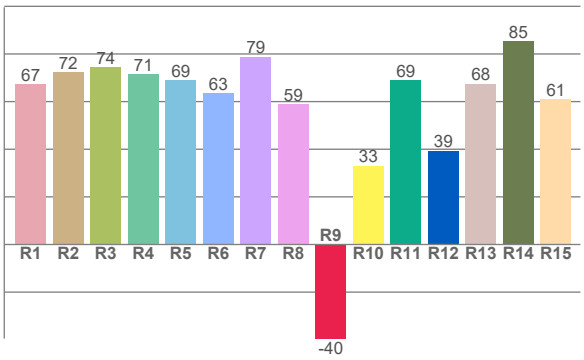


CIE 1931 ZOOM

TM30: 70,6



CRI: 69,4 (R1-R8)



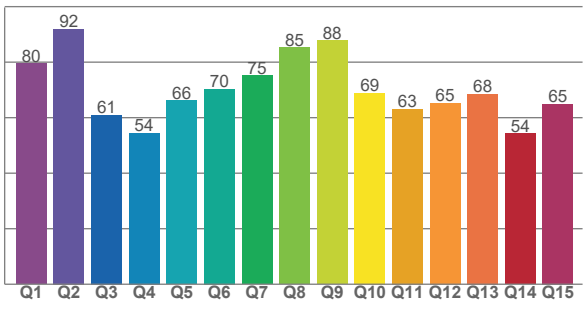
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
67,4	72,3	74,3	71,4	68,9	63,4	78,8	58,8	-39,5	33,1	69,0	39,4	67,5	85,5	61,0

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
64,9	68,6	63,9	65,1	73,2	84,2	87,3	75,5	77,4	58,6	48,6	69,6	79,0	75,4	67,8	74,7

CQS: 68,4



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79,6	92,0	61,0	54,4	66,2	70,4	75,1	85,2	87,8	68,9	63,2	65,4	68,5	54,3	64,9

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6768 K	69,4	-39,5	70,6	93,4	68,4	46	0,308	0,327	0,0013

TM30 DETAILS

PROLiGHTS

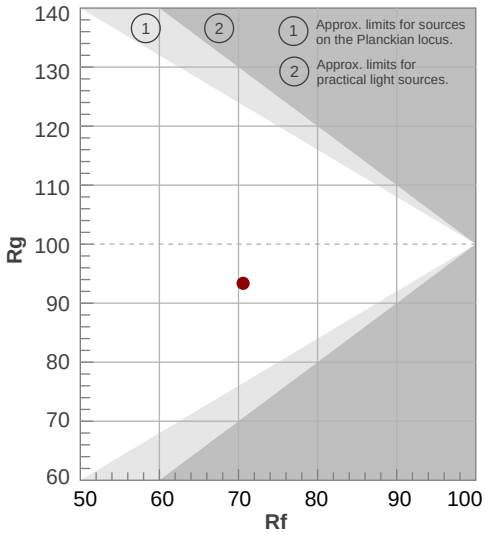
Rf 70,6

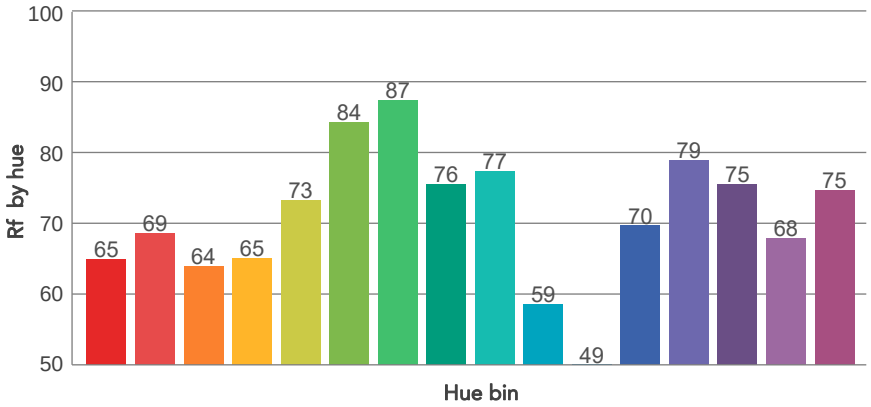
Fidelity index Rf

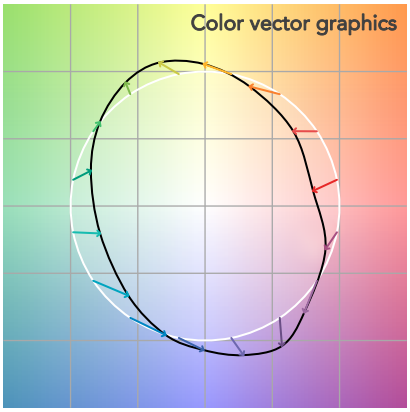
Rg 93,4

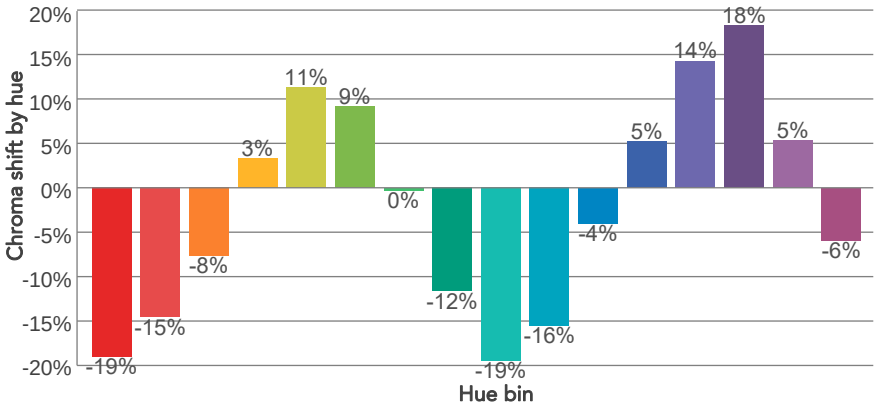
Gammut index

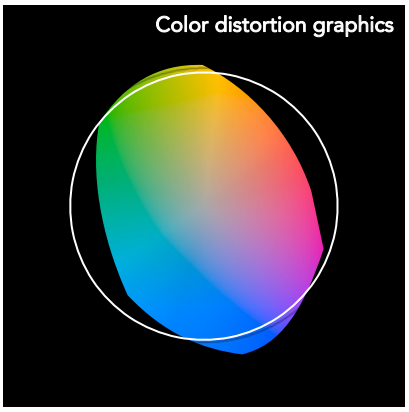
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	65	-19%	-5%
2	69	-15%	10%
3	64	-8%	22%
4	65	3%	22%
5	73	11%	13%
6	84	9%	-2%
7	87	0%	-8%
8	76	-12%	-9%
9	77	-19%	5%
10	59	-16%	24%
11	49	-4%	29%
12	70	5%	20%
13	79	14%	6%
14	75	18%	-10%
15	68	5%	-25%
16	75	-6%	-14%

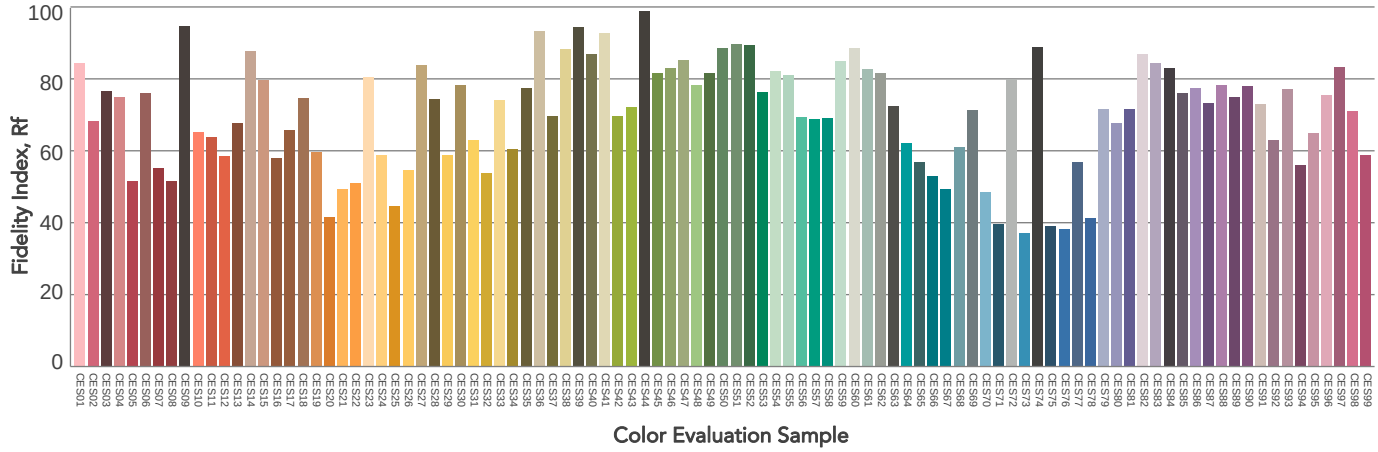












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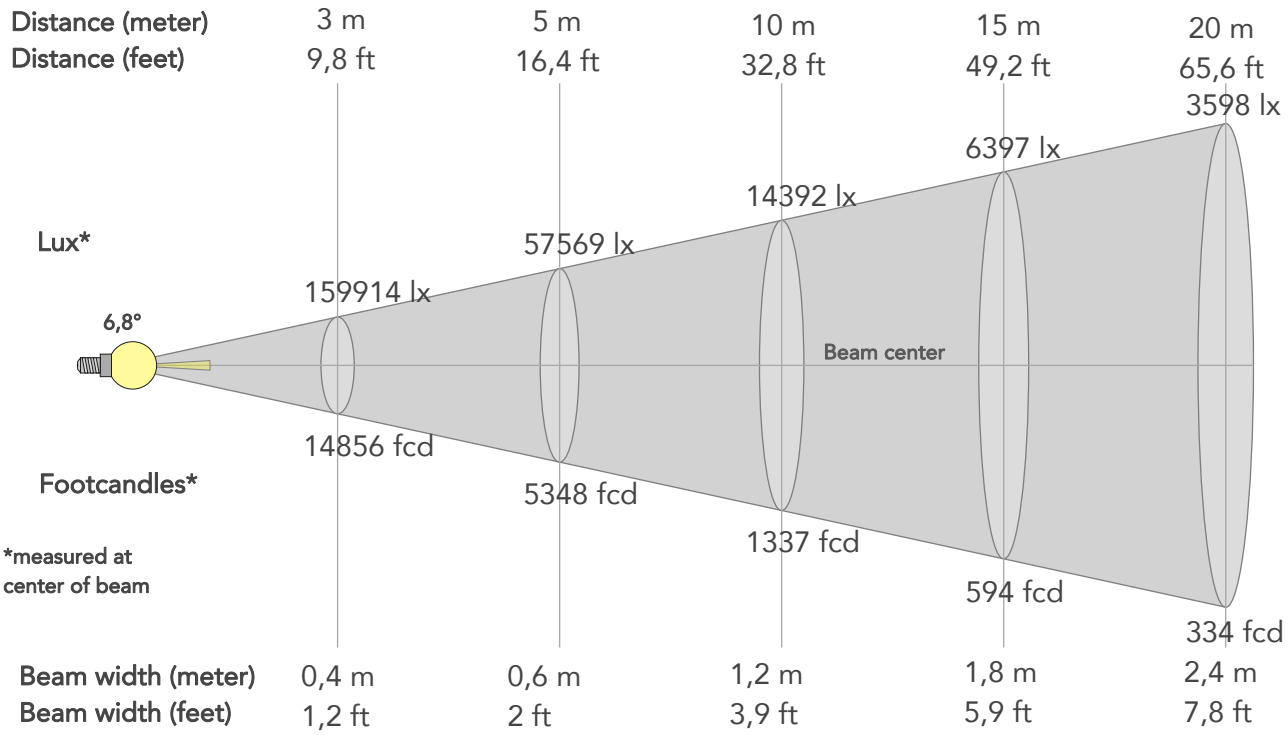
BEAM DETAILS

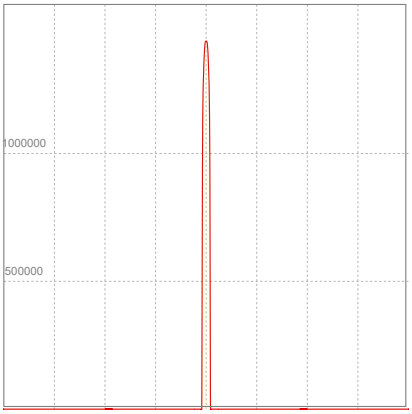
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,8°	7,5°	8°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1439222lx	359806lx	159914lx	89951lx	57569lx	25586lx	14392lx	6397lx	3598lx	2303lx	1599lx	900lx	576lx
Footcand.	133708fcd	33427fcd	14856fcd	8357fcd	5348fcd	2377fcd	1337fcd	594fcd	334fcd	214fcd	149fcd	84fcd	53fcd
Beam wid.	0,1m	0,2m	0,4m	0,5m	0,6m	0,9m	1,2m	1,8m	2,4m	3m	3,6m	4,8m	6m
Beam wid.	0,4ft	0,8ft	1,2ft	1,6ft	2ft	2,9ft	3,9ft	5,9ft	7,8ft	9,8ft	11,7ft	15,7ft	19,6ft

LINEAR DISTRIBUTION DIAGRAM



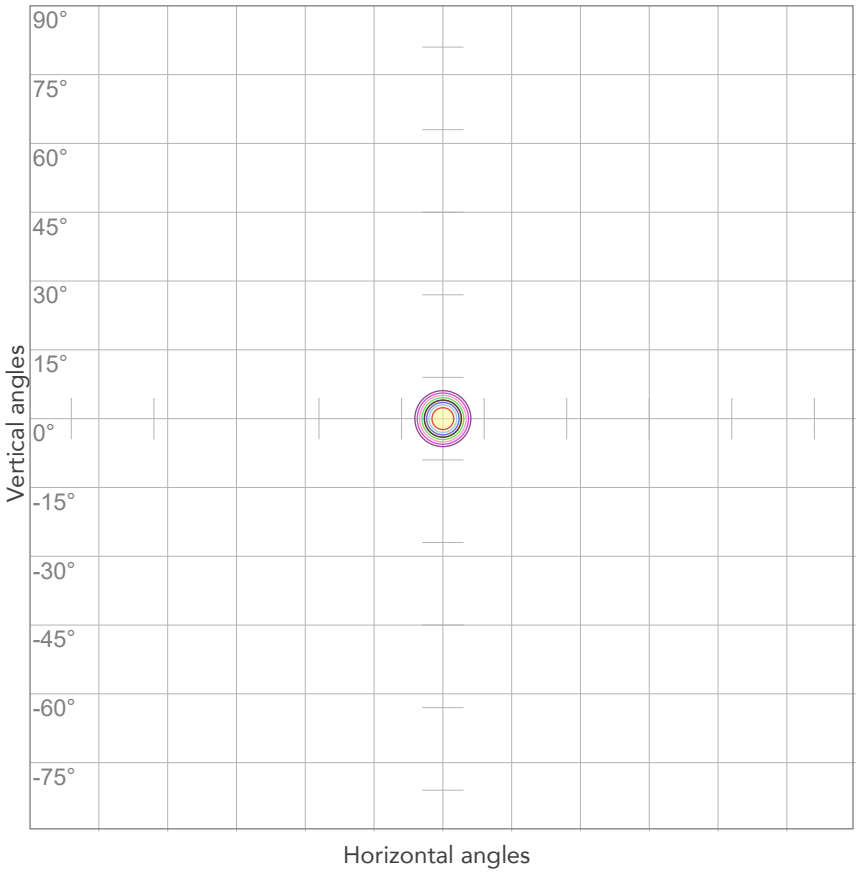
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
221V	0,000A	-W	n/alm/W

Powe Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



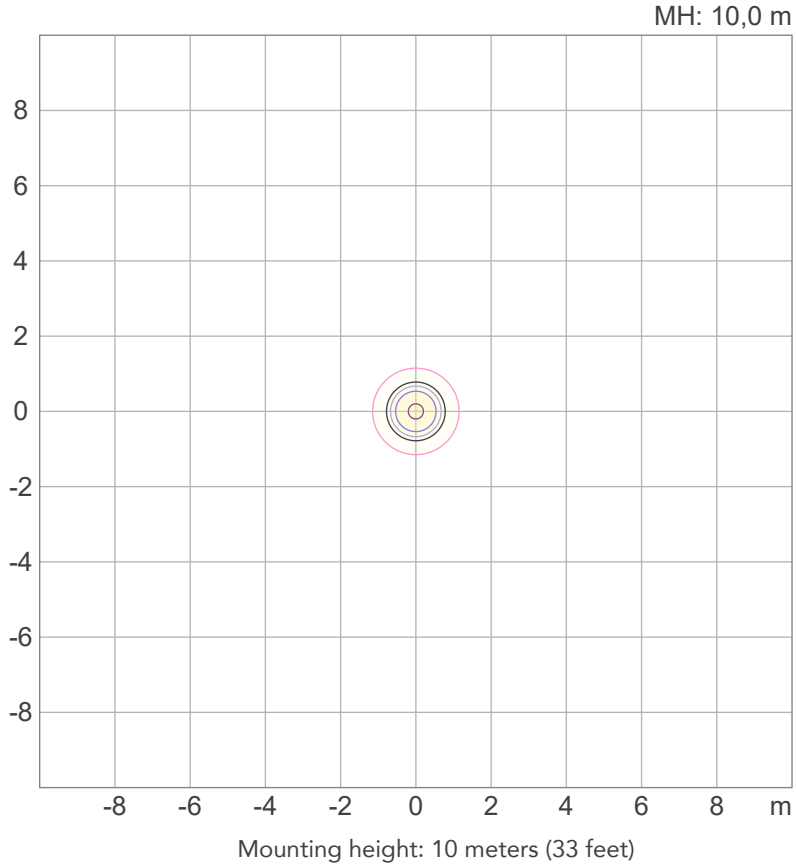
10%	143922 cd
20%	287844 cd
30%	431767 cd
40%	575689 cd
50%	719611 cd
60%	863533 cd
70%	1007456 cd
80%	1151378 cd

Conditions:

Number of c-planes: 2

Candela at center: 1439222 cd

ISO LUX DIAGRAM



3%	432 lx
5%	720 lx
10%	1439 lx
30%	4318 lx
50%	7196 lx

Conditions:

Number of c-planes: 2

Lux at center: 14,4K 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:

7103 lm

Peak candela output:

9882 cd

Light quality:

CRI: 94,3

Color temperature:

5694 K

PRODUCT NAME:

ASTRAPROFILE600IP

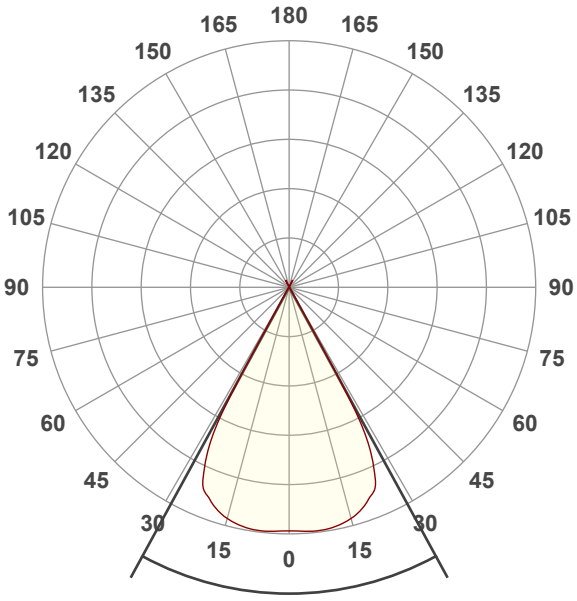
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
H-CRI

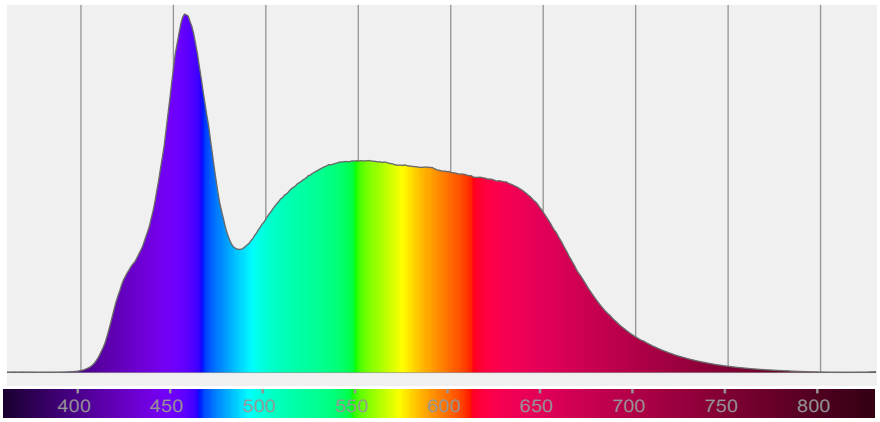
Operator:
Salvatore Giglio

Date and time:
28/11/2022 10:51:15



Beam angle 50%: 57,2°
Field angle 10%: 62,3°
Cut off angle 2.5%: 63,2°

Spectra



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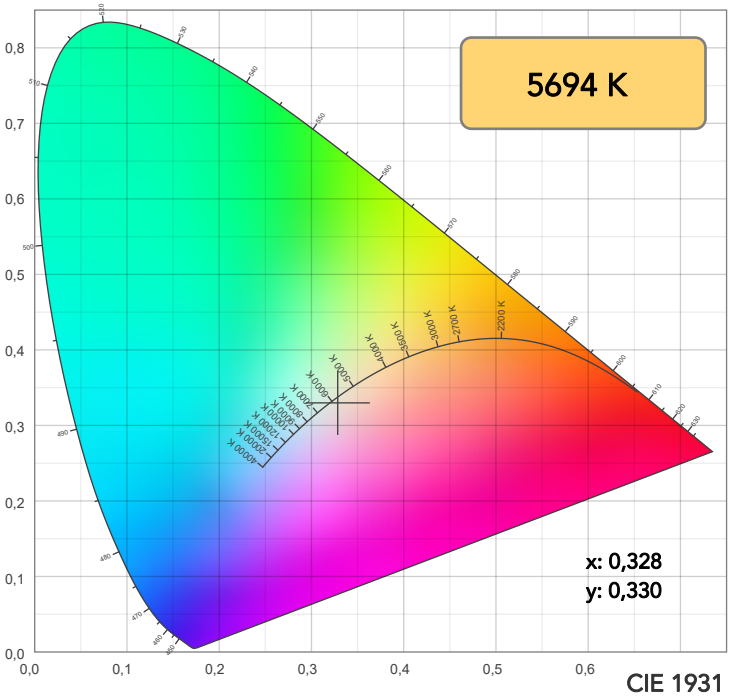
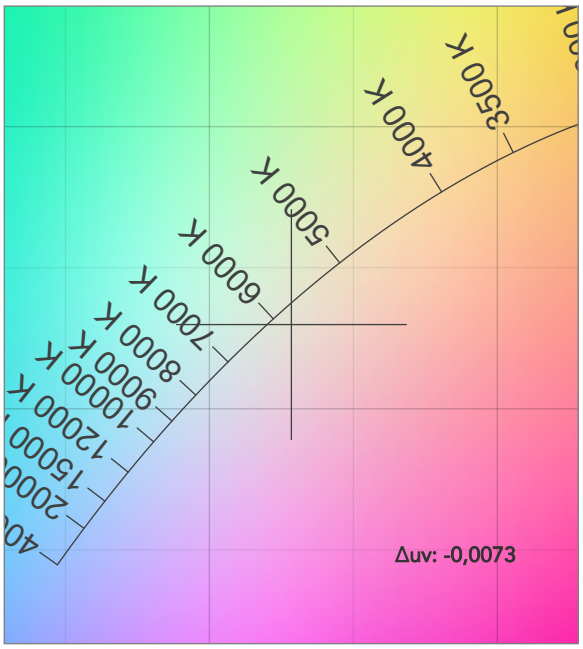
COLOR DETAILS

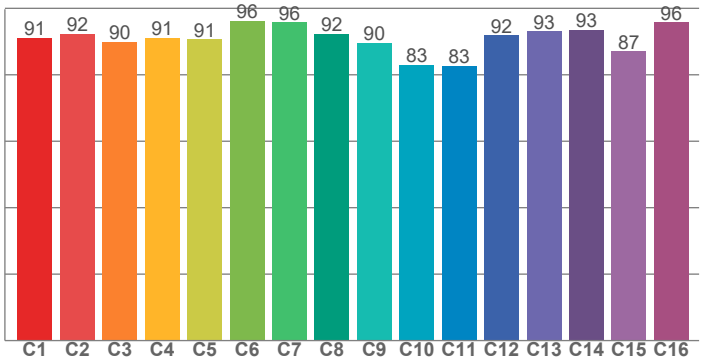


CIE 1931

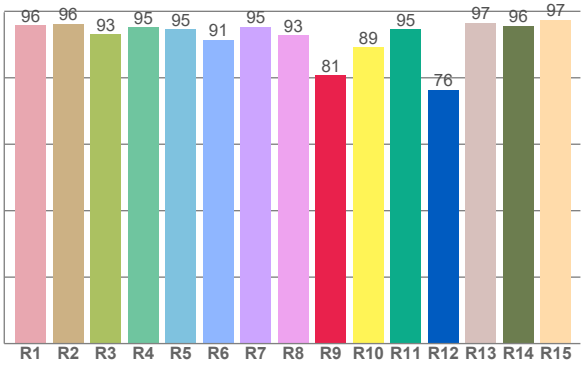


CIE 1931 ZOOM

TM30: 90,7



CRI: 94,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,9	96,3	93,2	95,2	94,5	91,4	95,4	92,8	80,7	89,1	94,6	76,4	96,6	95,7	97,5

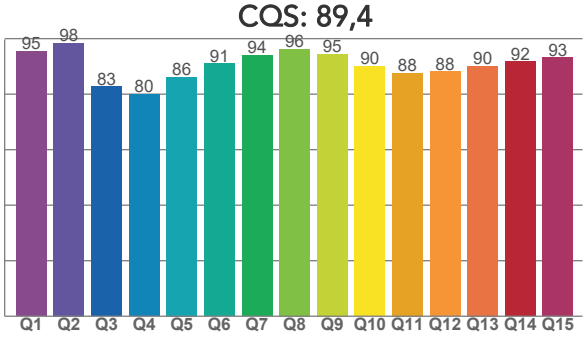
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,0	92,3	89,9	91,0	90,7	96,2	95,7	92,4	89,5	83,0	82,7	91,8	93,0	93,5	87,1	95,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,5	98,4	82,8	80,0	86,2	91,0	94,0	96,2	94,5	90,0	87,5	88,1	90,2	91,7	93,2

CQS: 89,4



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
5694 K	94,3	80,7	90,7	100,0	89,4	93	0,328	0,330	-0,0073

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

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TM30 DETAILS

PROLiGHTS

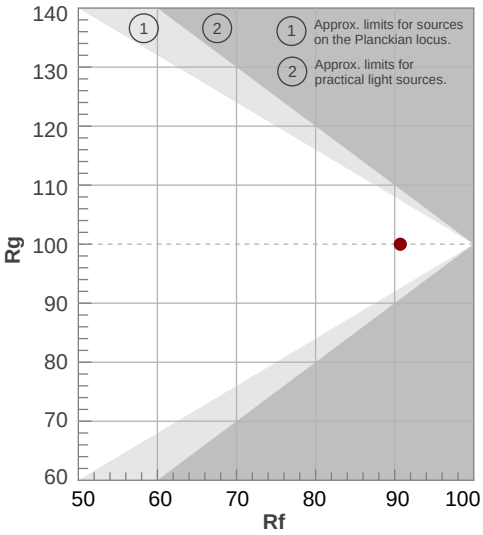
Rf 90,7

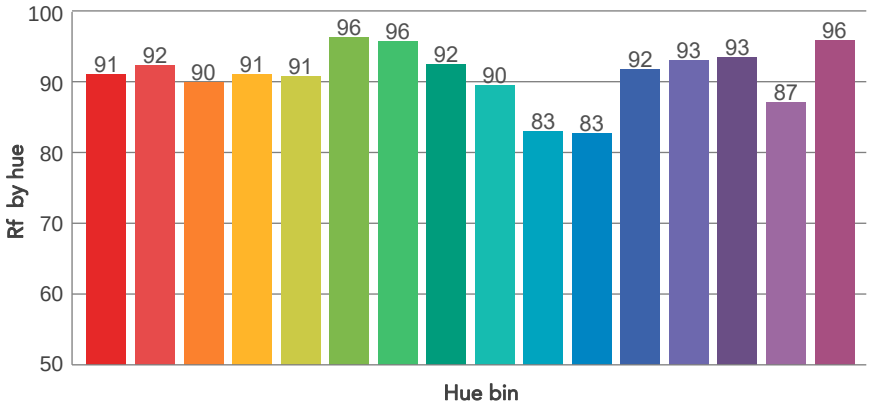
Fidelity index Rf

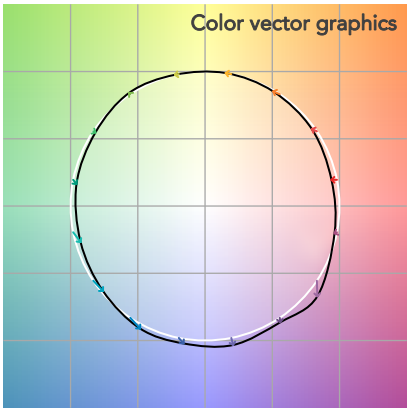
Rg 100,0

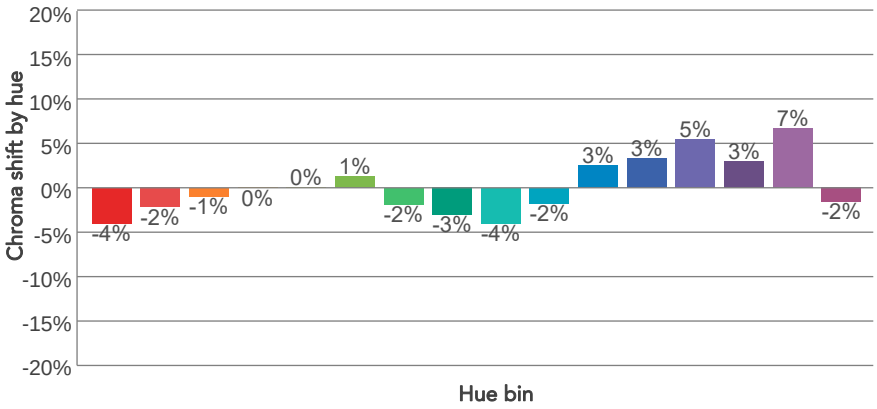
Gammut index

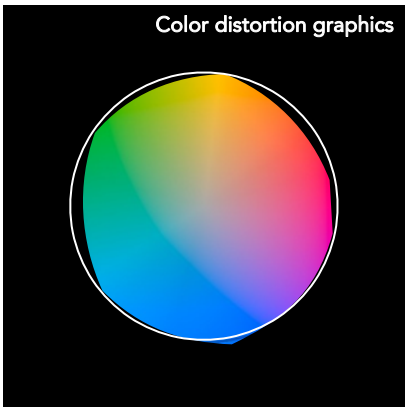
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	-4%	1%
2	92	-2%	3%
3	90	-1%	5%
4	91	0%	4%
5	91	0%	3%
6	96	1%	0%
7	96	-2%	0%
8	92	-3%	3%
9	90	-4%	8%
10	83	-2%	10%
11	83	3%	10%
12	92	3%	4%
13	93	5%	0%
14	93	3%	-2%
15	87	7%	-9%
16	96	-2%	-1%

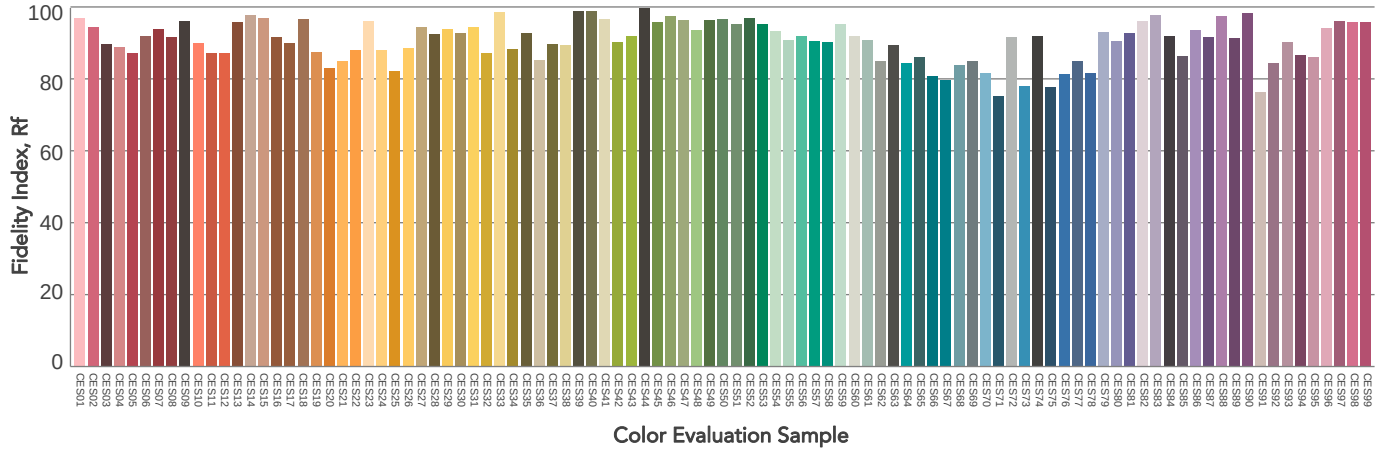












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

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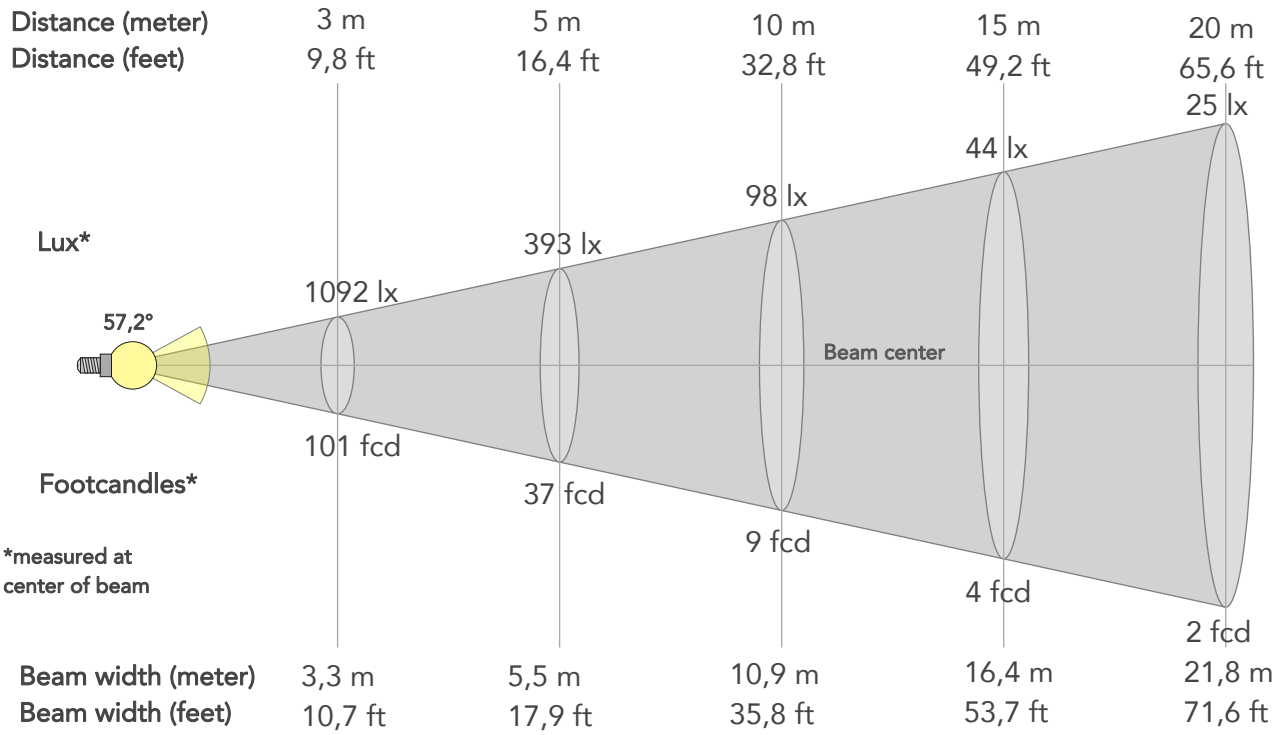
BEAM DETAILS

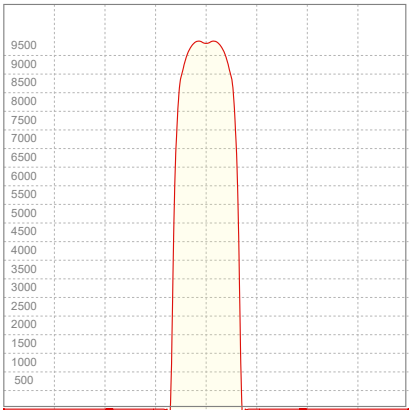
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57,2°	62,3°	63,2°	100,0%	100,0%



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	9831lx	2458lx	1092lx	614lx	393lx	175lx	98lx	44lx	25lx	16lx	11lx	6lx	4lx
Footcand.	913fcd	228fcd	101fcd	57fcd	37fcd	16fcd	9fcd	4fcd	2fcd	1fcd	1fcd	1fcd	0fcd
Beam wid.	1,1m	2,2m	3,3m	4,4m	5,5m	8,2m	10,9m	16,4m	21,8m	27,3m	32,7m	43,7m	54,6m
Beam wid.	3,6ft	7,2ft	10,7ft	14,3ft	17,9ft	26,8ft	35,8ft	53,7ft	71,6ft	89,5ft	107,4ft	143,2ft	179ft

LINEAR DISTRIBUTION DIAGRAM



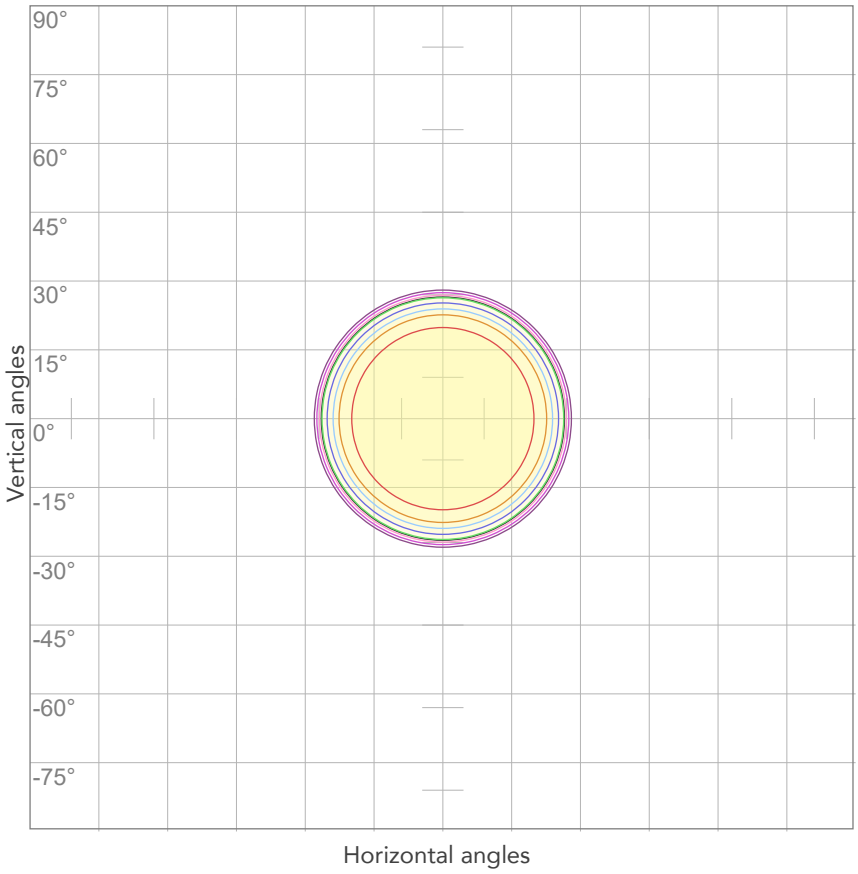
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	0,000A	-W	n/alm/W

Powe Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



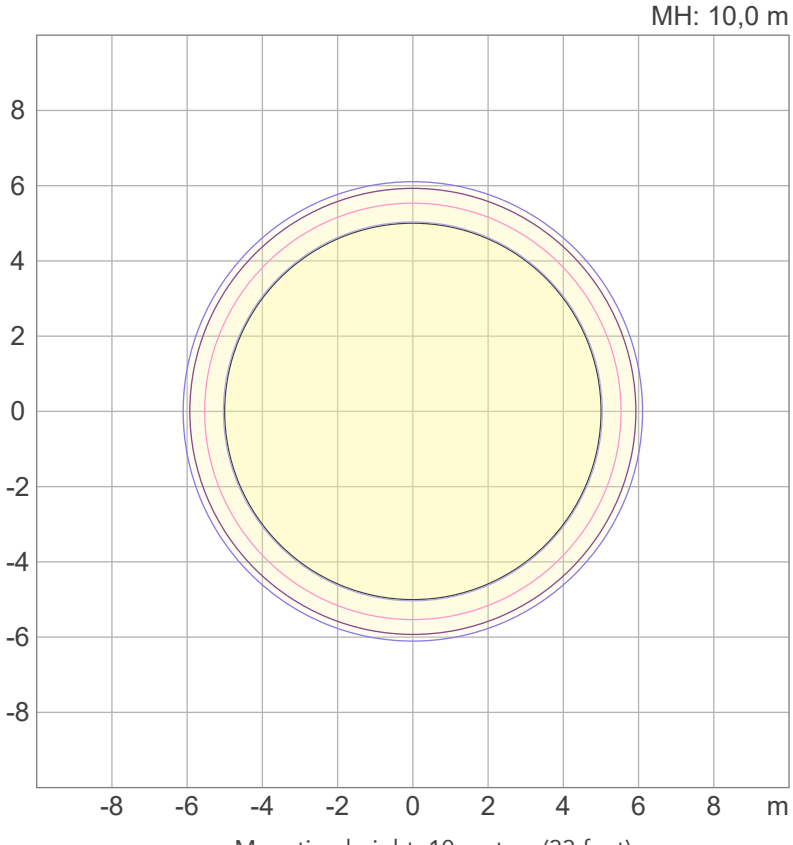
10%	983 cd
20%	1966 cd
30%	2949 cd
40%	3932 cd
50%	4915 cd
60%	5898 cd
70%	6882 cd
80%	7865 cd

Conditions:

Number of c-planes: 2

Candela at center: 9831 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	2,95 lx
5%	4,92 lx
10%	9,83 lx
30%	29,5 lx
50%	49,2 lx

Conditions:

Number of c-planes: 2

Lux at center: 98,3 lx

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

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04026 - Minturno (LT) ITALY
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Total lumen output:

7073 lm

Peak candela output:

58170 cd

Light quality:

CRI: 94,3

Color temperature:

5705 K

PRODUCT NAME:

ASTRAPROFILE600IP

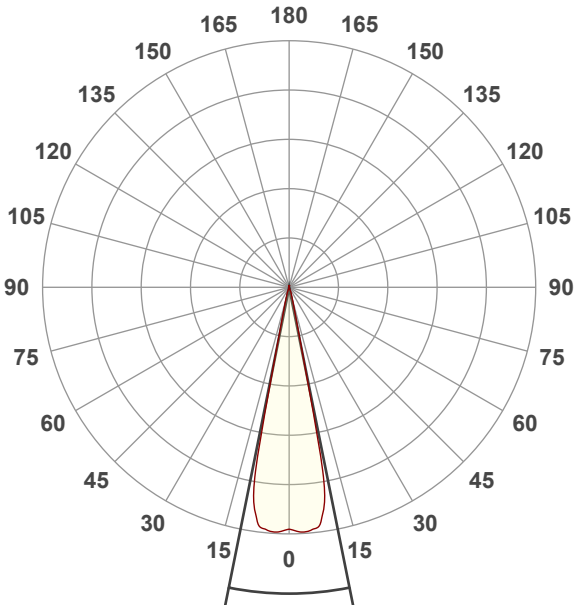
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
H-CRI

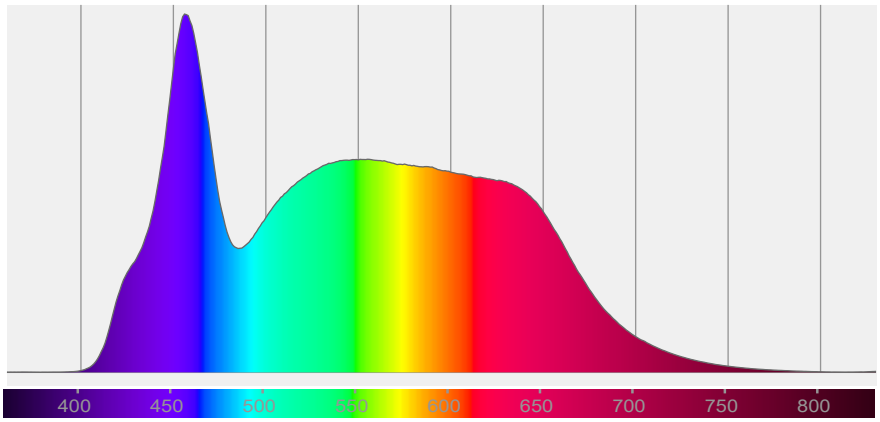
Operator:
Salvatore Giglio

Date and time:
28/11/2022 10:53:42

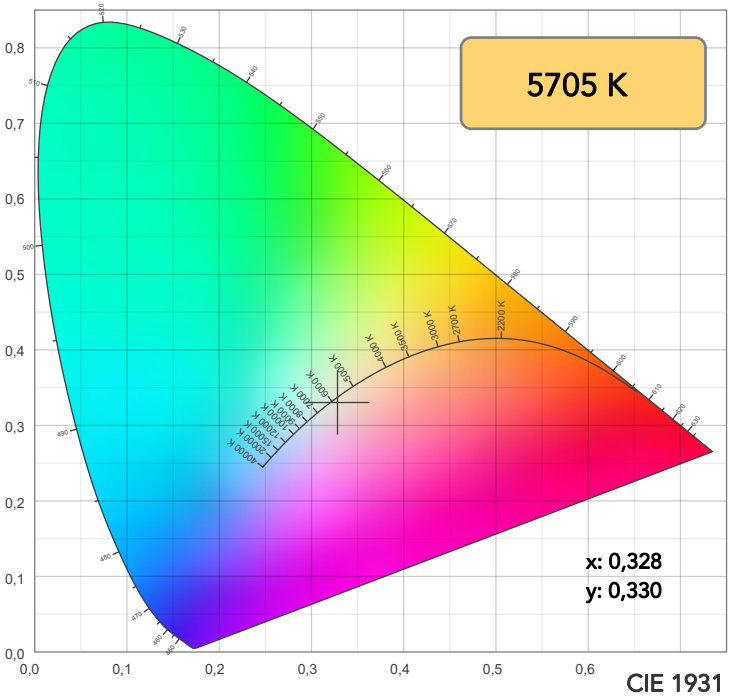


Beam angle 50%: 22,7°
Field angle 10%: 26,1°
Cut off angle 2.5%: 29,4°

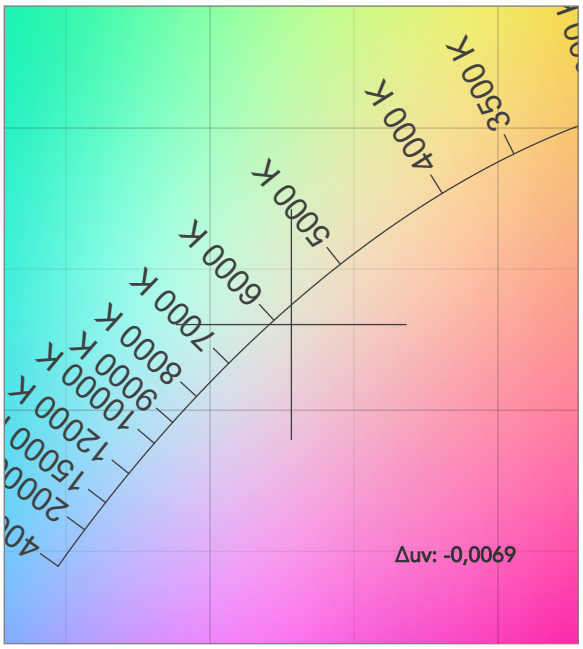
Spectra



COLOR DETAILS

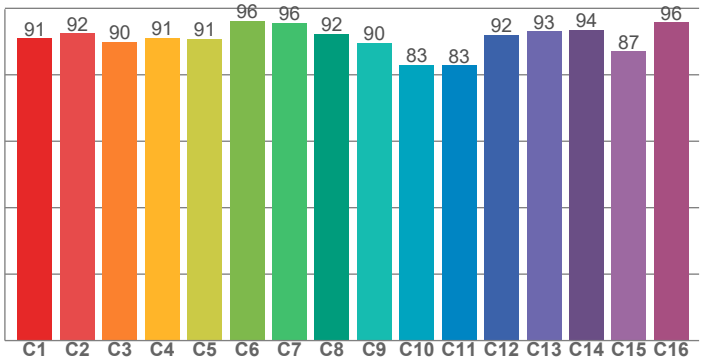


CIE 1931

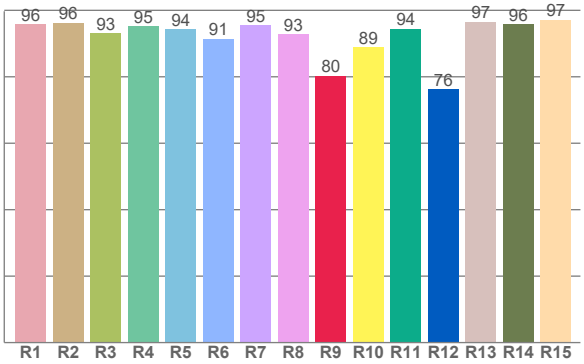


CIE 1931 ZOOM

TM30: 90,8



CRI: 94,3 (R1-R8)



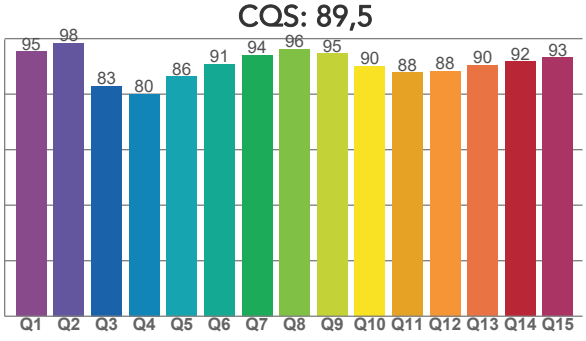
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95,8	96,3	93,2	95,1	94,4	91,4	95,4	92,7	80,3	88,9	94,5	76,3	96,5	95,7	97,2

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
91,0	92,4	90,0	91,1	90,8	96,3	95,7	92,4	89,5	83,1	82,8	91,9	93,1	93,5	87,0	95,8

CQS: 89,5



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,4	98,5	83,0	80,1	86,3	90,9	94,0	96,2	94,6	90,2	87,7	88,4	90,4	91,7	93,2

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5705 K	94,3	80,3	90,8	99,9	89,5	93	0,328	0,330	-0,0069

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

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TM30 DETAILS

PROLiGHTS

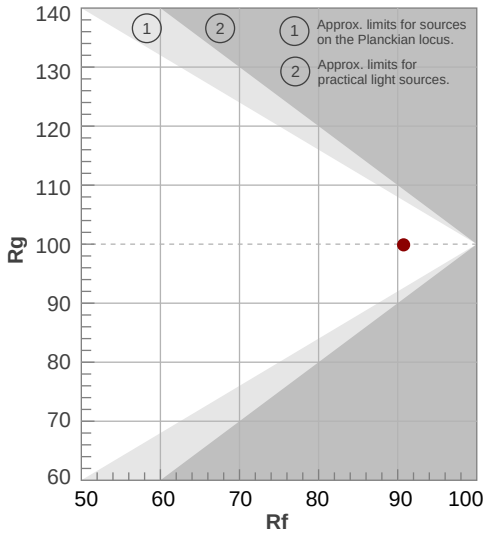
Rf 90,8

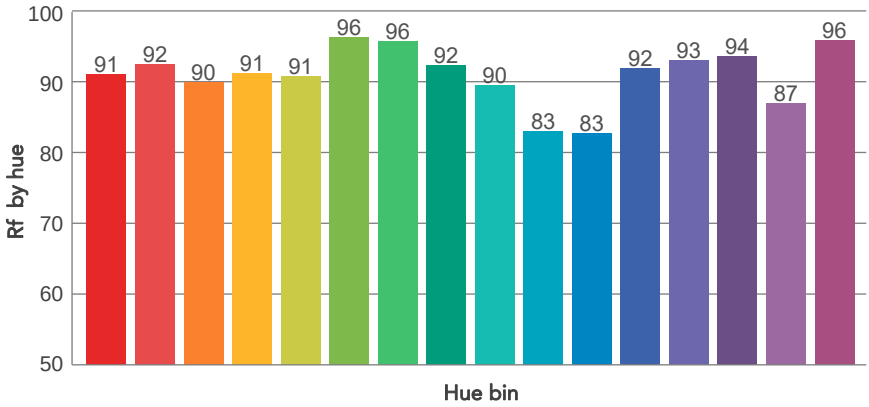
Fidelity index Rf

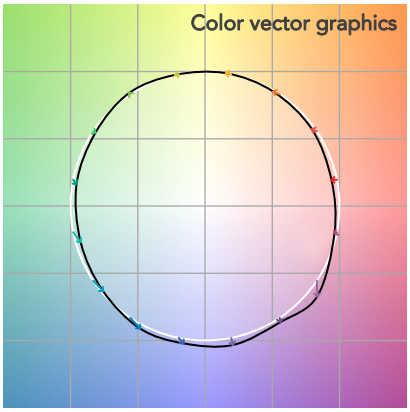
Rg 99,9

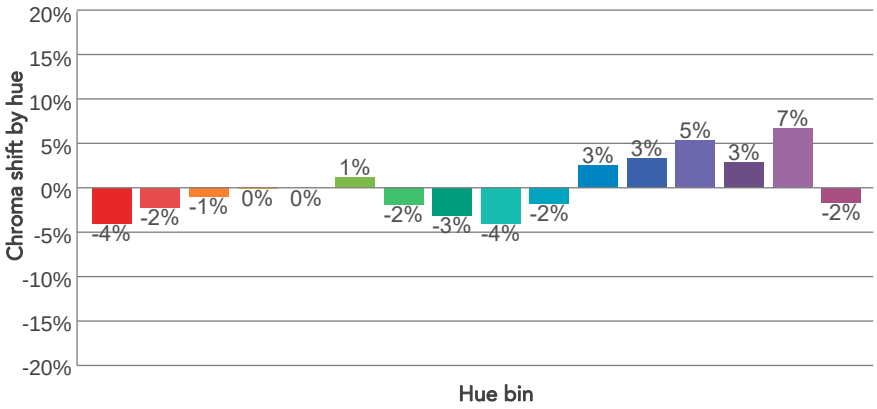
Gamut index

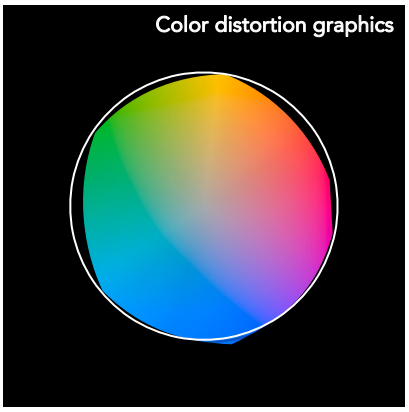
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	-4%	1%
2	92	-2%	3%
3	90	-1%	5%
4	91	0%	4%
5	91	0%	3%
6	96	1%	0%
7	96	-2%	0%
8	92	-3%	3%
9	90	-4%	8%
10	83	-2%	10%
11	83	3%	10%
12	92	3%	4%
13	93	5%	0%
14	94	3%	-2%
15	87	7%	-10%
16	96	-2%	-1%

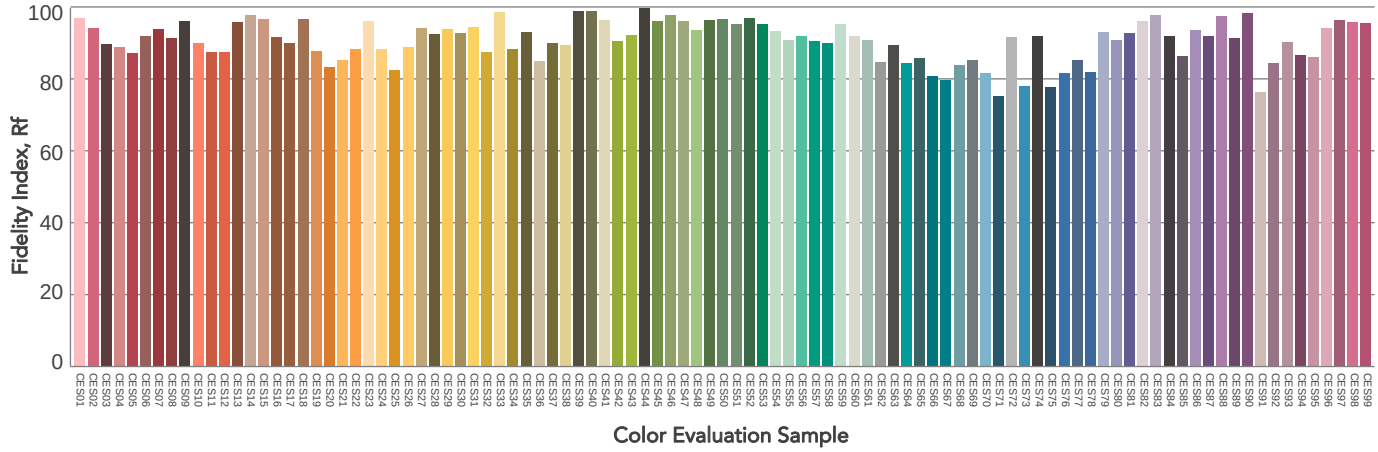












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04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

prolights.it
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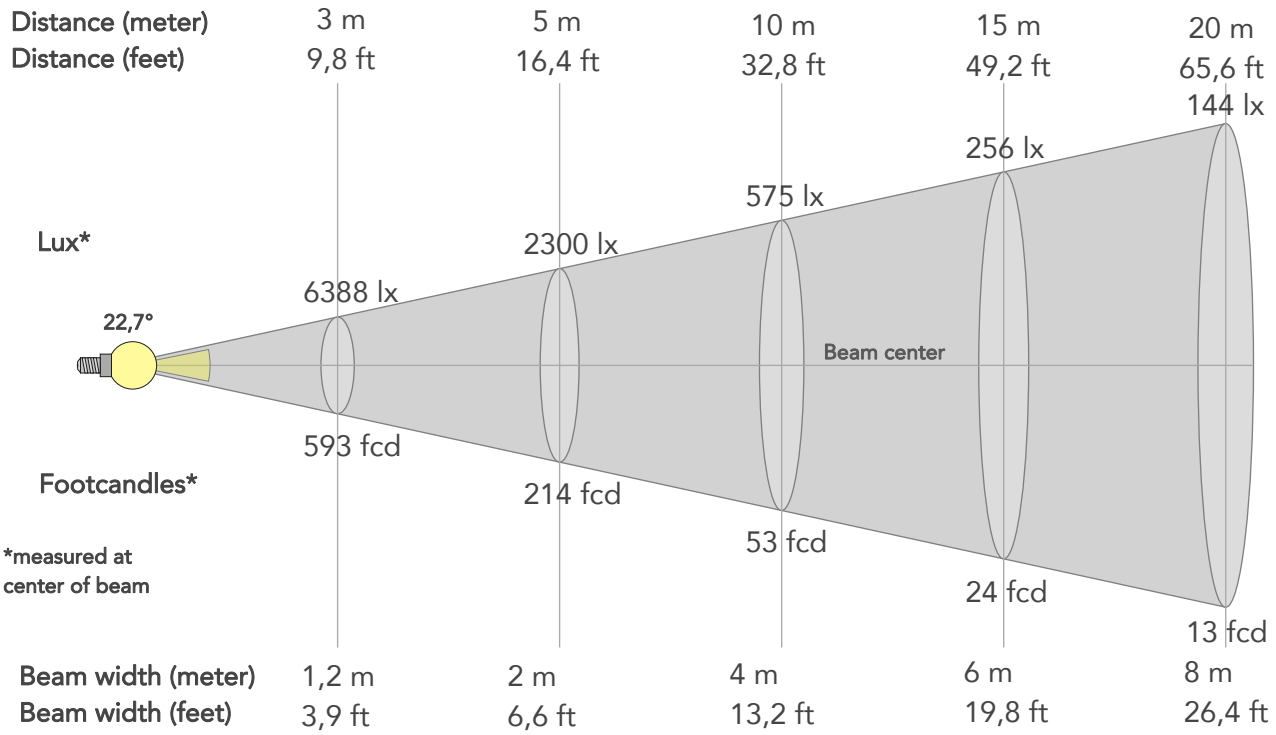
BEAM DETAILS

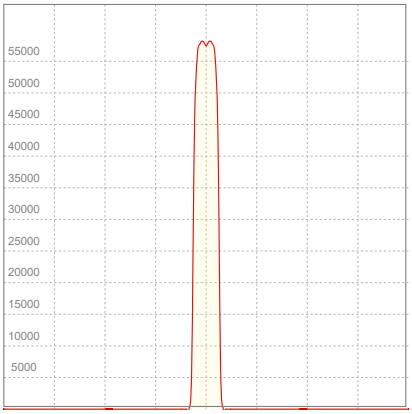
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22,7°	26,1°	29,4°	100,0%	100,0%



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	57490lx	14372lx	6388lx	3593lx	2300lx	1022lx	575lx	256lx	144lx	92lx	64lx	36lx	23lx
Footcand.	5341fcd	1335fcd	593fcd	334fcd	214fcd	95fcd	53fcd	24fcd	13fcd	9fcd	6fcd	3fcd	2fcd
Beam wid.	0,4m	0,8m	1,2m	1,6m	2m	3m	4m	6m	8m	10,1m	12,1m	16,1m	20,1m
Beam wid.	1,3ft	2,7ft	3,9ft	5,3ft	6,6ft	9,9ft	13,2ft	19,8ft	26,4ft	33ft	39,6ft	52,7ft	65,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,000A	-W	n/alm/W

Powe Fc
0,97

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

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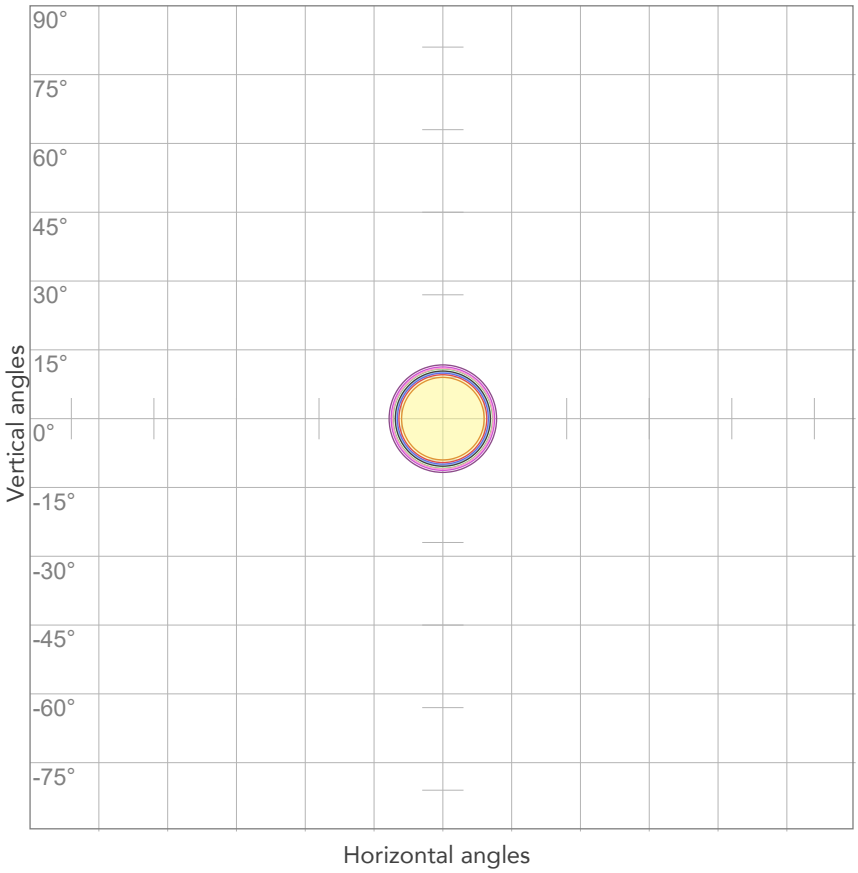
ISO DIAGRAMS

ISO CANDELA DIAGRAM



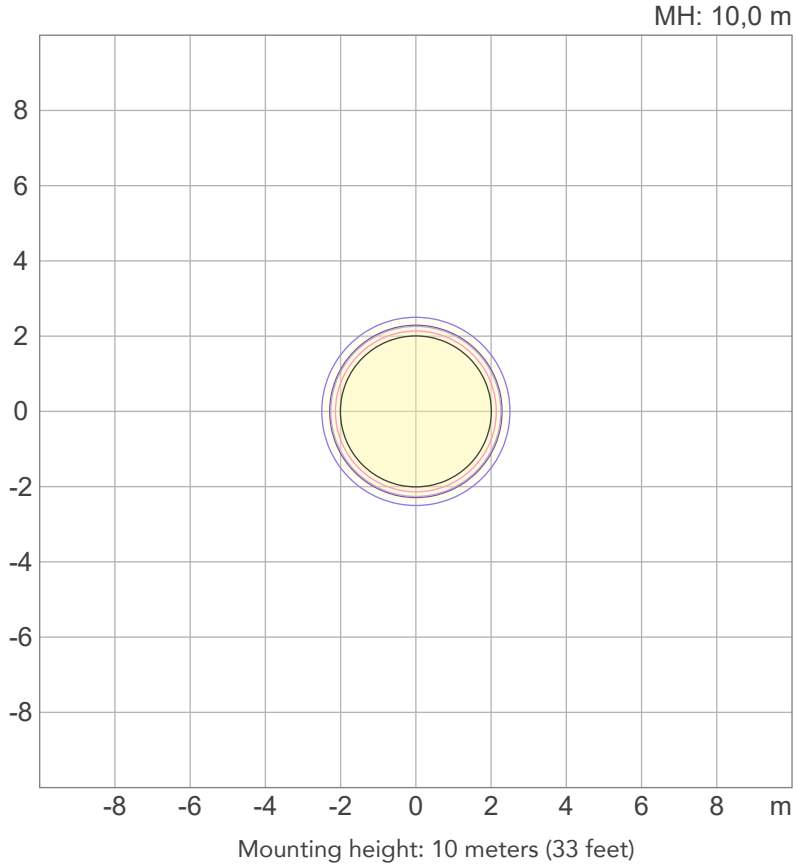
10%	5749 cd
20%	11498 cd
30%	17247 cd
40%	22996 cd
50%	28745 cd
60%	34494 cd
70%	40243 cd
80%	45992 cd

Conditions:

Number of c-planes: 2

Candela at center: 57490 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	17,2 lx
5%	28,7 lx
10%	57,5 lx
30%	172 lx
50%	287 lx

Conditions:

Number of c-planes: 2

Lux at center: 575 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:

5397 lm

Peak candela output:

560361 cd

Light quality:

CRI: 93,0

Color temperature:

5622 K

PRODUCT NAME:

ASTRAPROFILE600IP

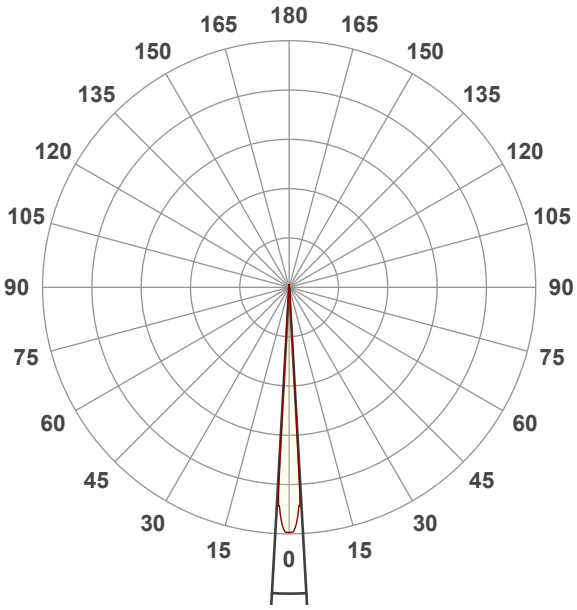
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
H-CRI

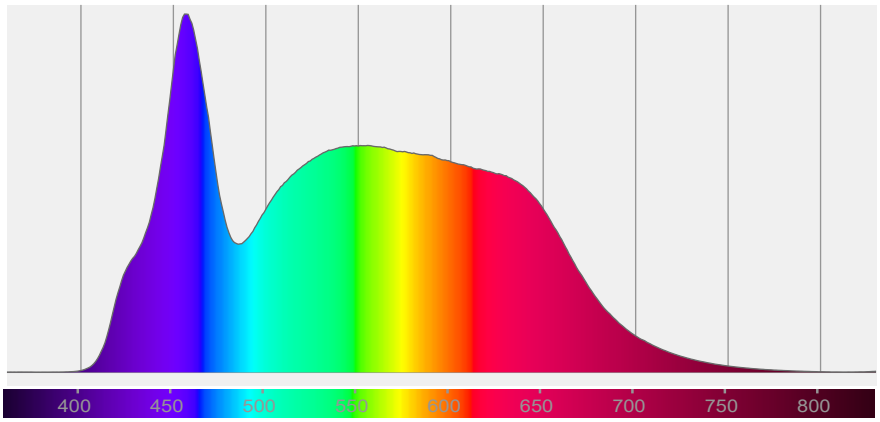
Operator:
Salvatore Giglio

Date and time:
28/11/2022 10:55:33

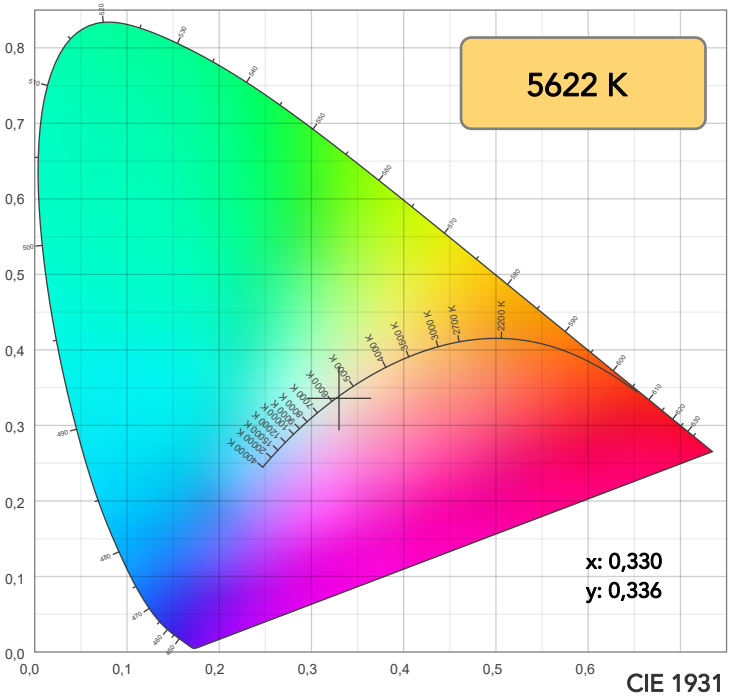


Beam angle 50%: 6,4°
Field angle 10%: 7,3°
Cut off angle 2.5%: 7,8°

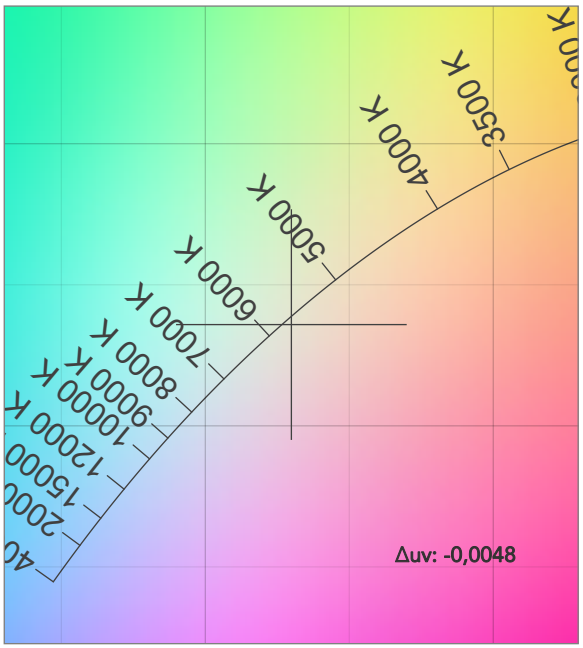
Spectra



COLOR DETAILS

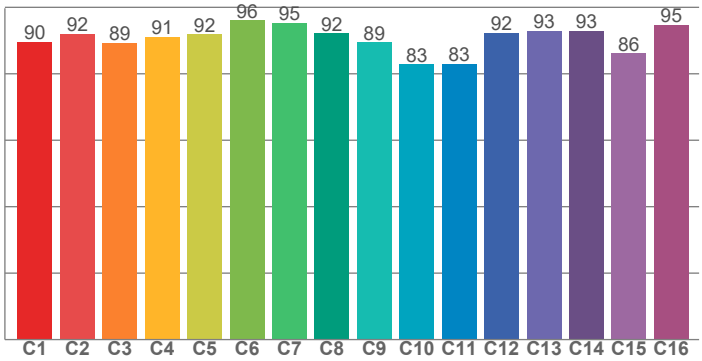


CIE 1931

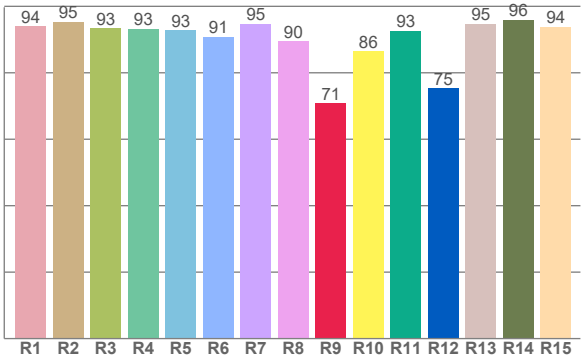


CIE 1931 ZOOM

TM30: 90,4



CRI: 93,0 (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
93,9	95,3	93,3	93,3	92,8	90,9	94,7	89,5	70,9	86,5	92,7	75,4	94,8	95,9	93,8

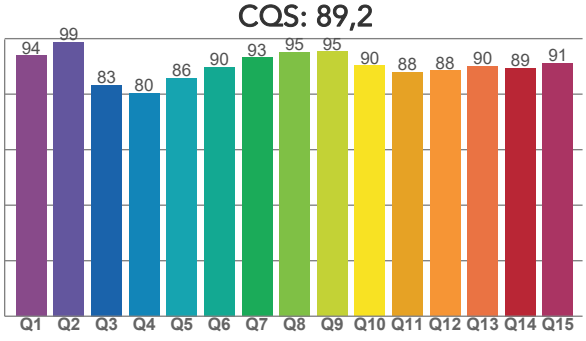
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,6	92,0	89,4	91,1	91,9	96,0	95,4	92,2	89,5	82,9	82,9	92,3	92,9	92,8	86,1	94,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93,8	98,7	83,4	80,3	85,9	89,8	93,2	95,2	95,4	90,3	87,9	88,5	90,2	89,5	91,1

CQS: 89,2



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5622 K	93,0	70,9	90,4	99,0	89,2	93	0,330	0,336	-0,0048

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

prolights.it
info@prolights.it

TM30 DETAILS

PROLiGHTS

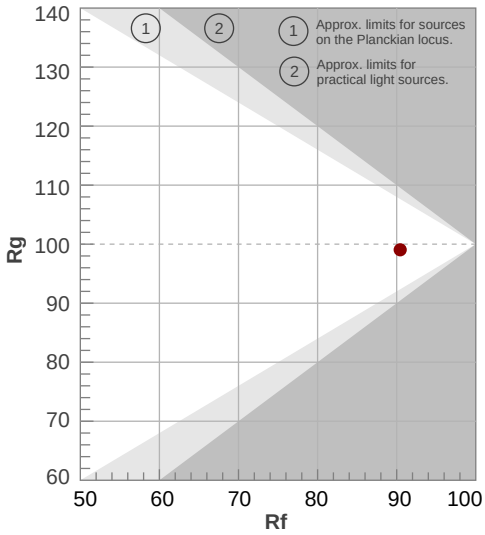
Rf 90,4

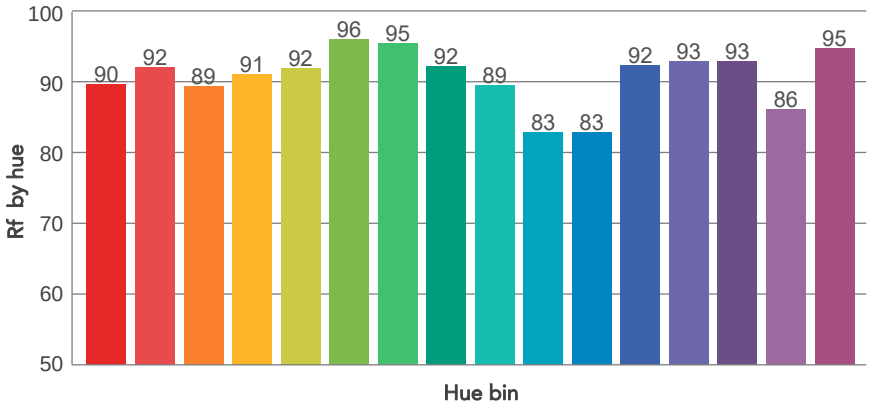
Fidelity index Rf

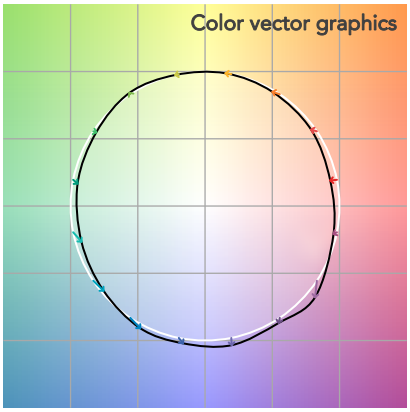
Rg 99,0

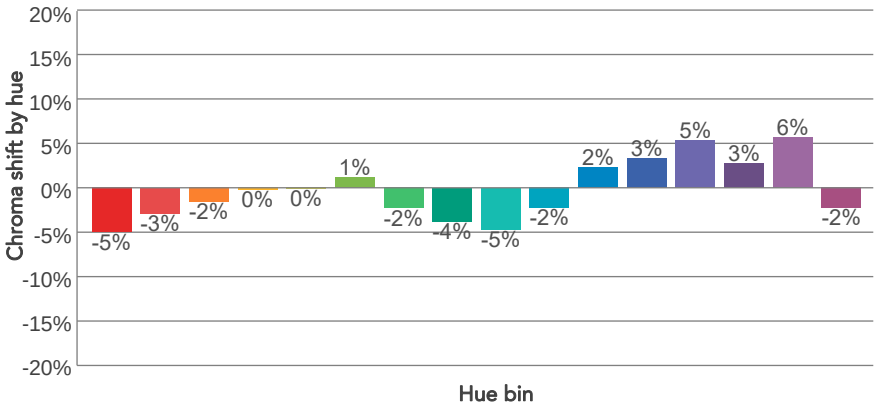
Gamut index

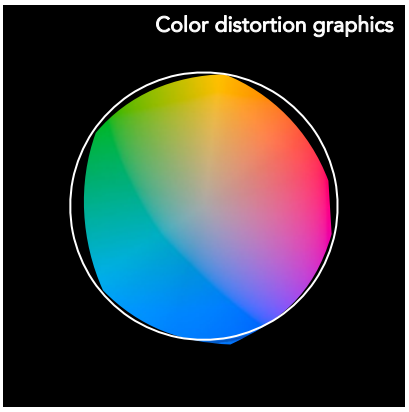
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	90	-5%	0%
2	92	-3%	3%
3	89	-2%	5%
4	91	0%	4%
5	92	0%	3%
6	96	1%	0%
7	95	-2%	-1%
8	92	-4%	2%
9	89	-5%	8%
10	83	-2%	10%
11	83	2%	10%
12	92	3%	4%
13	93	5%	-1%
14	93	3%	-3%
15	86	6%	-11%
16	95	-2%	-2%

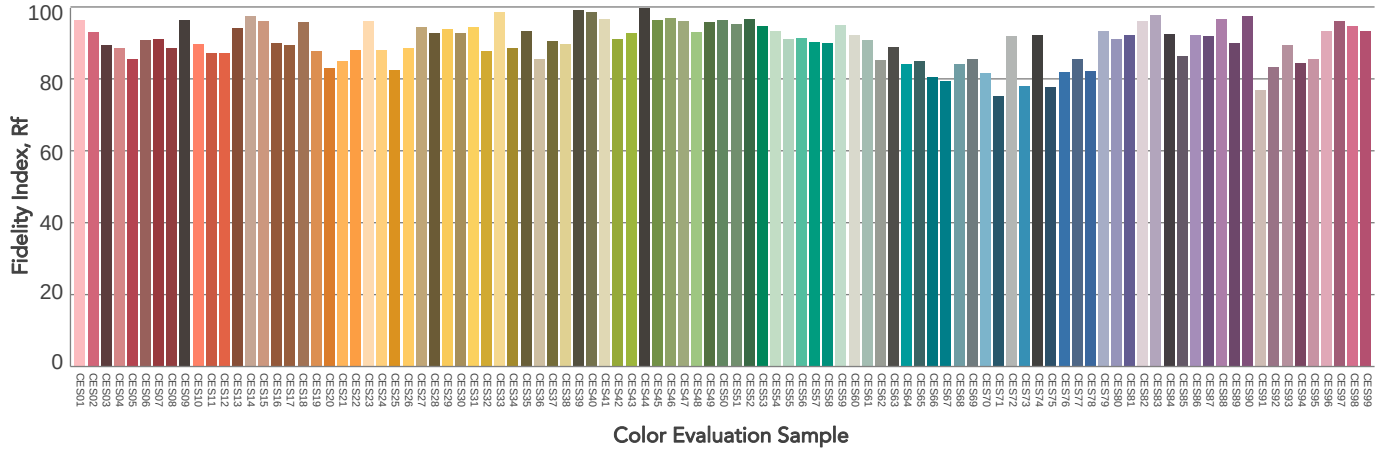












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Via A. Olivetti snc
04026 - Minturno (LT) ITALY
Tel: +39 0771 72190

prolights.it
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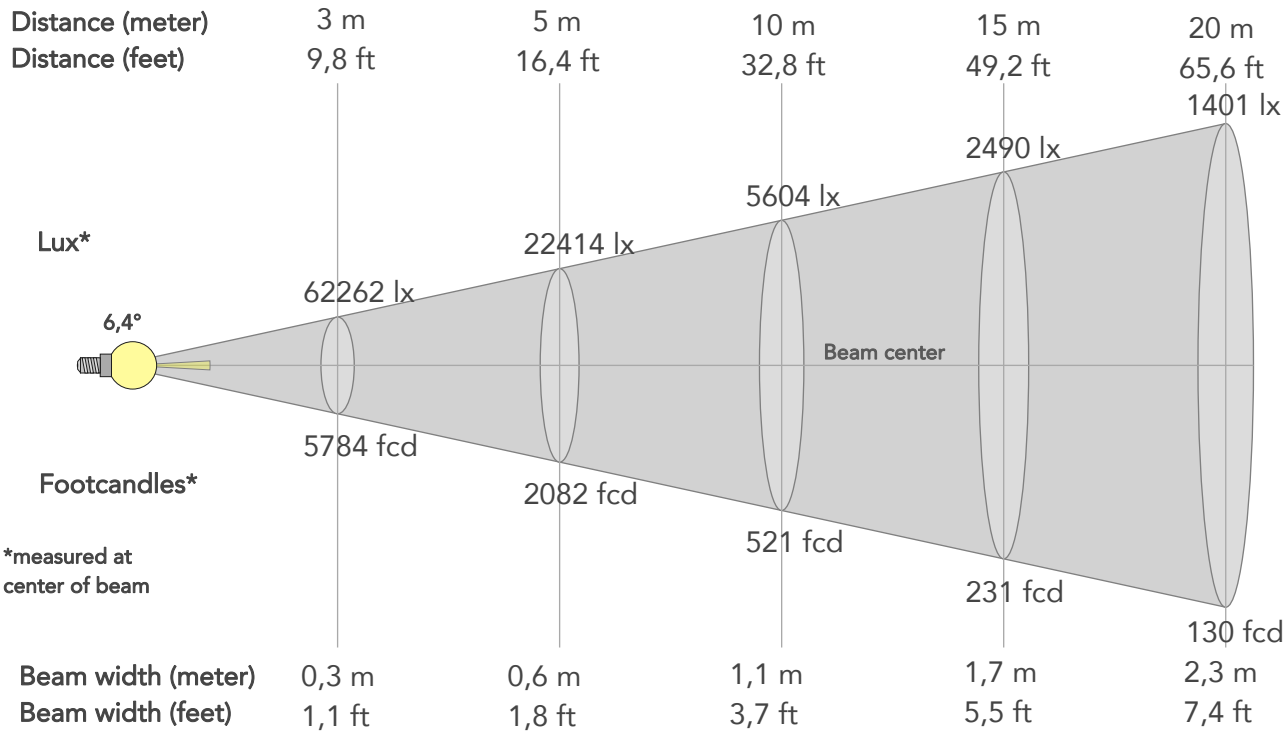
BEAM DETAILS

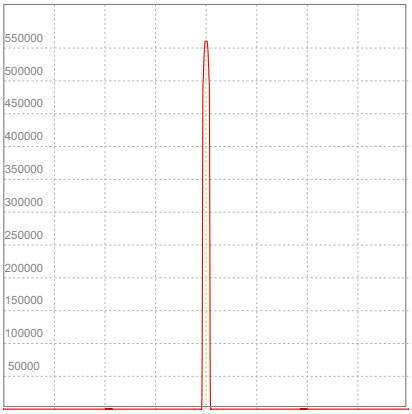
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
6,4°	7,3°	7,8°	100,0%	100,0%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	560361lx	140090lx	62262lx	35023lx	22414lx	9962lx	5604lx	2490lx	1401lx	897lx	623lx	350lx	224lx
Footcand.	52059fcd	13015fcd	5784fcd	3254fcd	2082fcd	925fcd	521fcd	231fcd	130fcd	83fcd	58fcd	33fcd	21fcd
Beam wid.	0,1m	0,2m	0,3m	0,5m	0,6m	0,8m	1,1m	1,7m	2,3m	2,8m	3,4m	4,5m	5,6m
Beam wid.	0,4ft	0,7ft	1,1ft	1,5ft	1,8ft	2,8ft	3,7ft	5,5ft	7,4ft	9,2ft	11,1ft	14,8ft	18,5ft

LINEAR DISTRIBUTION DIAGRAM



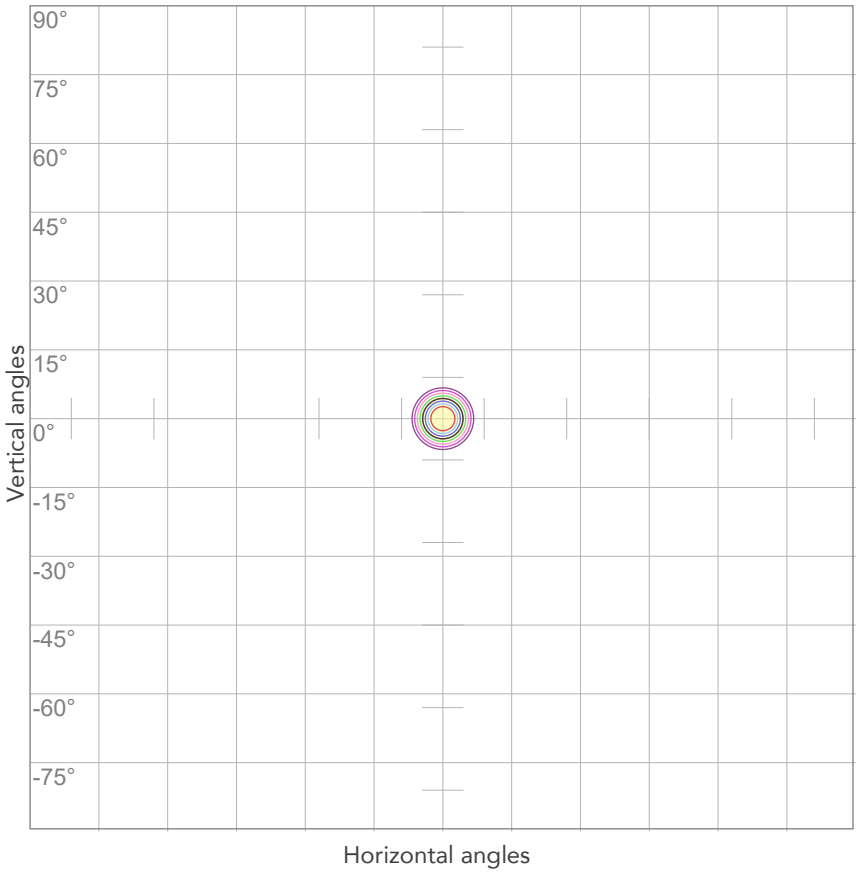
ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
222V	0,000A	-W	n/alm/W

Powe Fc
0,97

ISO DIAGRAMS

ISO CANDELA DIAGRAM



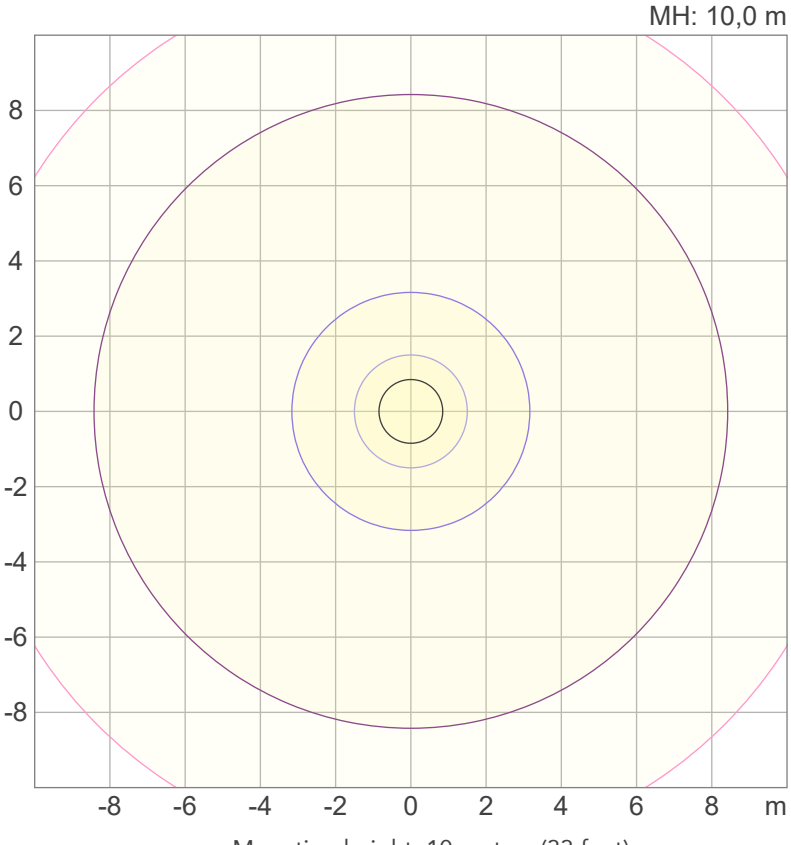
10%	56036 cd
20%	112072 cd
30%	168108 cd
40%	224144 cd
50%	280180 cd
60%	336217 cd
70%	392253 cd
80%	448289 cd

Conditions:

Number of c-planes: 2

Candela at center: 560361 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	168 lx
5%	280 lx
10%	560 lx
30%	1681 lx
50%	2802 lx

Conditions:

Number of c-planes: 2

Lux at center: 5604 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

prolights.it
info@prolights.it