Photometric Test Report

Jet Hybrid200

200W Hybrid Moving head,
with 3,5° - 40° zoom and colour wheel

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:

7593 lm

Peak candela output:

36529 cd

Light quality:

CRI: 67,5

Color temperature:

7039 K

PRODUCT NAME:

JETHYB200

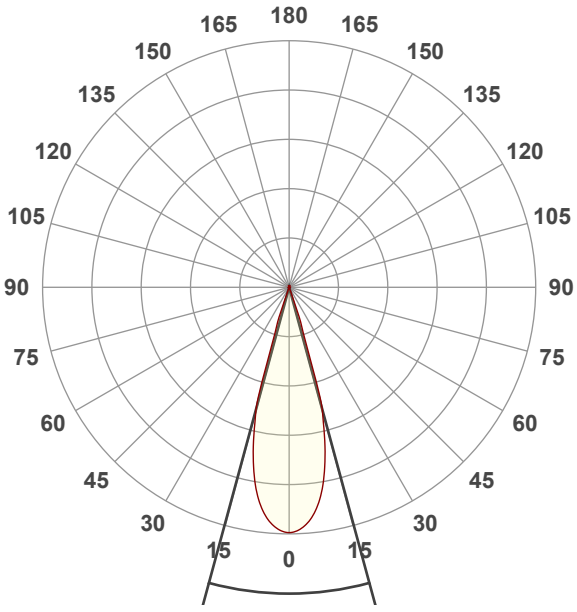
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
Full On

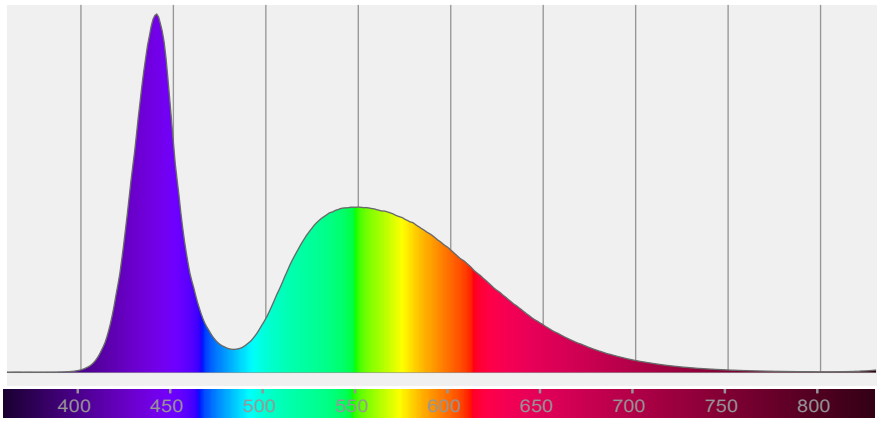
Operator:
Salvatore Giglio

Date and time:
04/01/2024 18:17:19

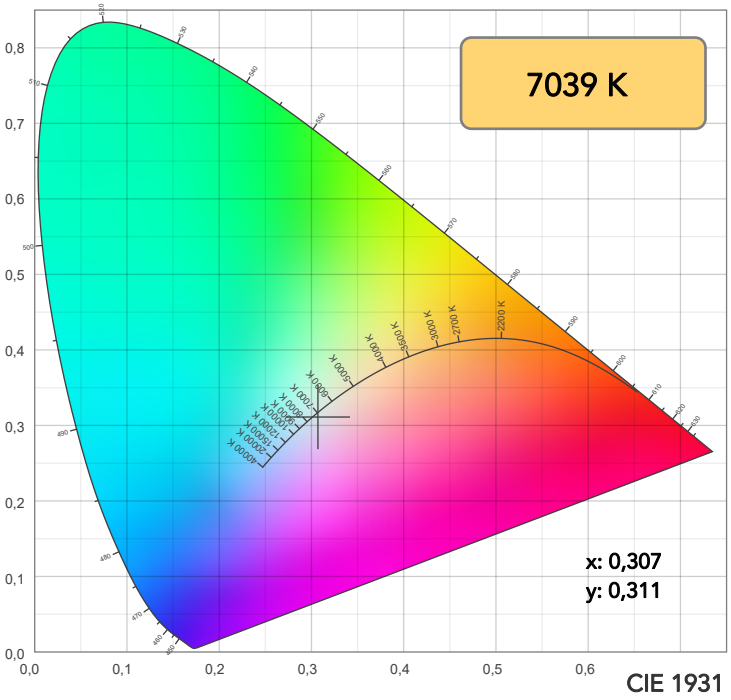


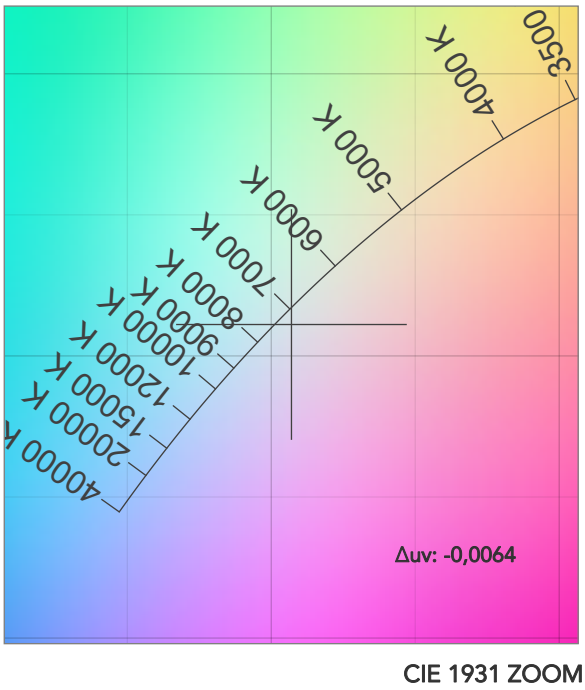
Beam angle 50%: 30,4°
Field angle 10%: 38,1°
Cut off angle 2.5%: 39,9°

Spectra

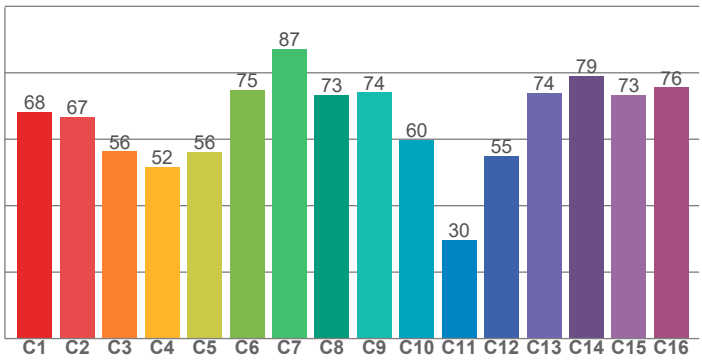


COLOR DETAILS

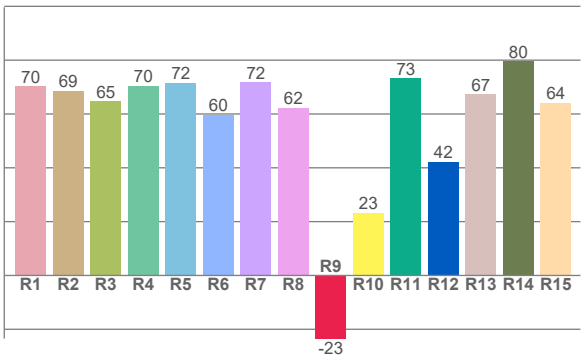




TM30: 65,1



CRI: 67,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
70,3	68,6	64,7	70,5	71,6	59,7	71,9	62,3	-23,5	23,3	73,3	42,3	67,4	79,6	64,1

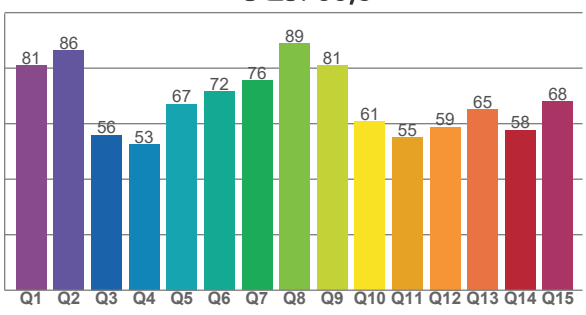
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68,3	66,8	56,4	51,7	56,3	74,8	87,2	73,3	74,1	59,8	29,7	55,1	73,9	79,0	73,3	75,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,0	86,3	55,9	52,5	67,0	71,6	75,5	88,9	81,0	60,7	55,0	58,7	65,1	57,6	68,0

CQS: 66,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7039 K	67,5	-23,5	65,1	96,9	66,3	42	0,307	0,311	-0,0064

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TM30 DETAILS

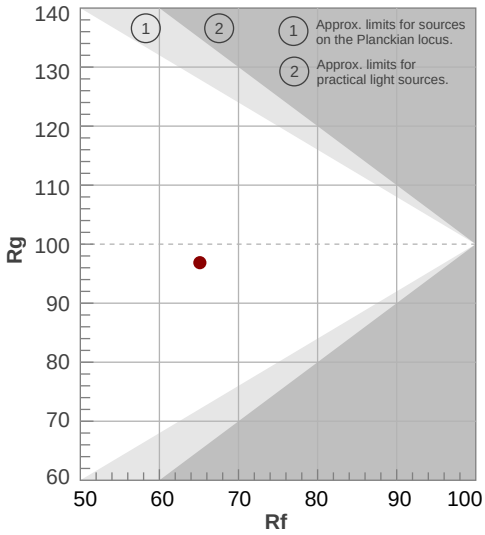
Rf 65,1

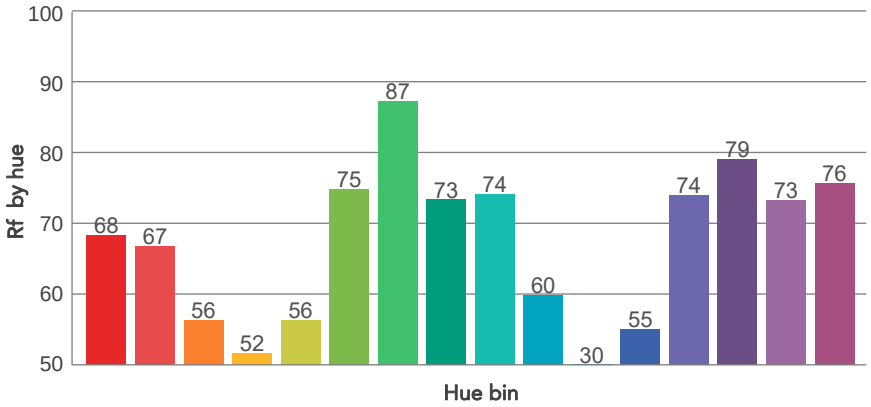
Fidelity index Rf

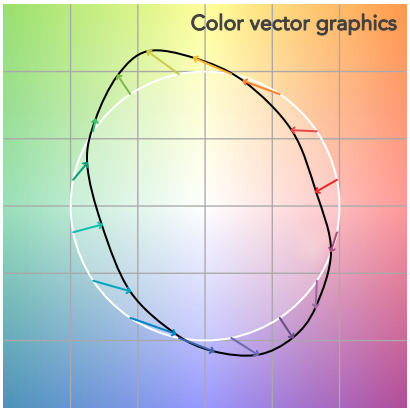
Rg 96,9

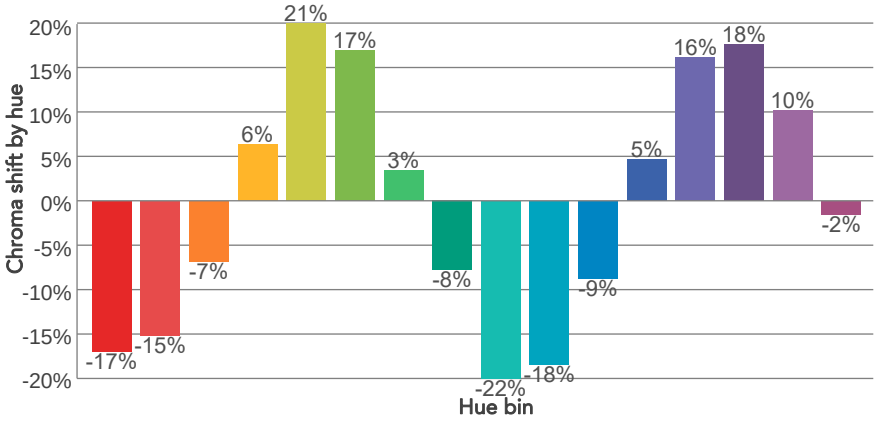
Gammut index

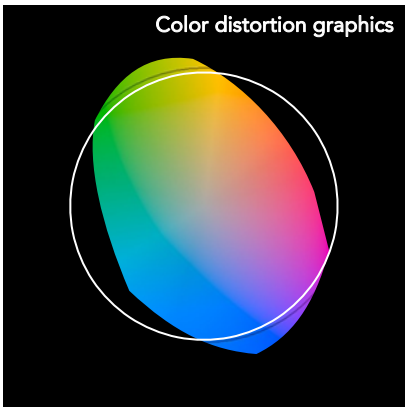
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	68	-17%	-6%
2	67	-15%	11%
3	56	-7%	28%
4	52	6%	29%
5	56	21%	19%
6	75	17%	0%
7	87	3%	-8%
8	73	-8%	-14%
9	74	-22%	-1%
10	60	-18%	22%
11	30	-9%	34%
12	55	5%	27%
13	74	16%	17%
14	79	18%	0%
15	73	10%	-17%
16	76	-2%	-15%

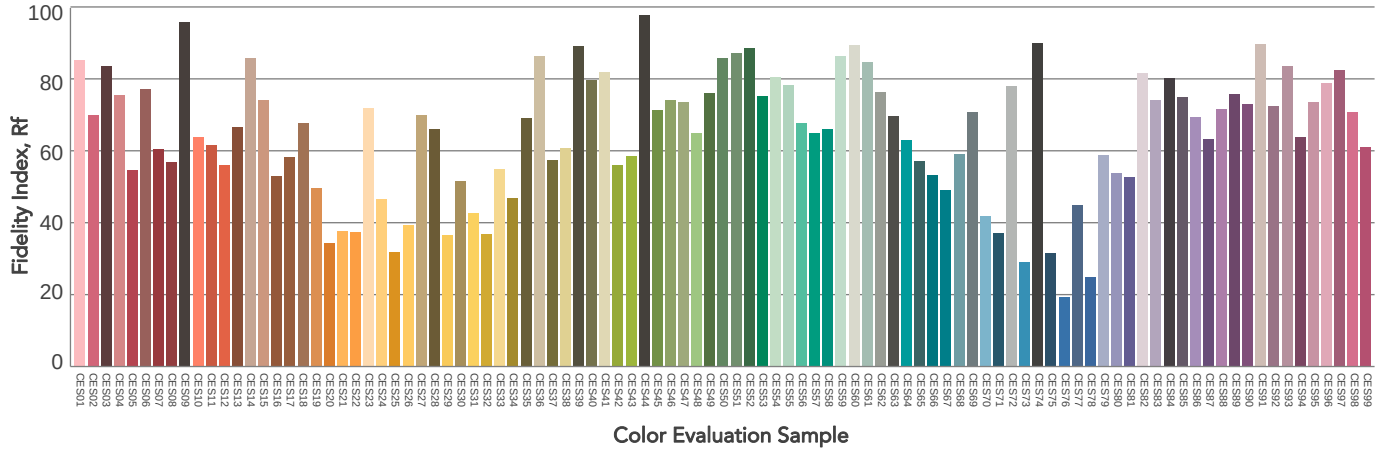












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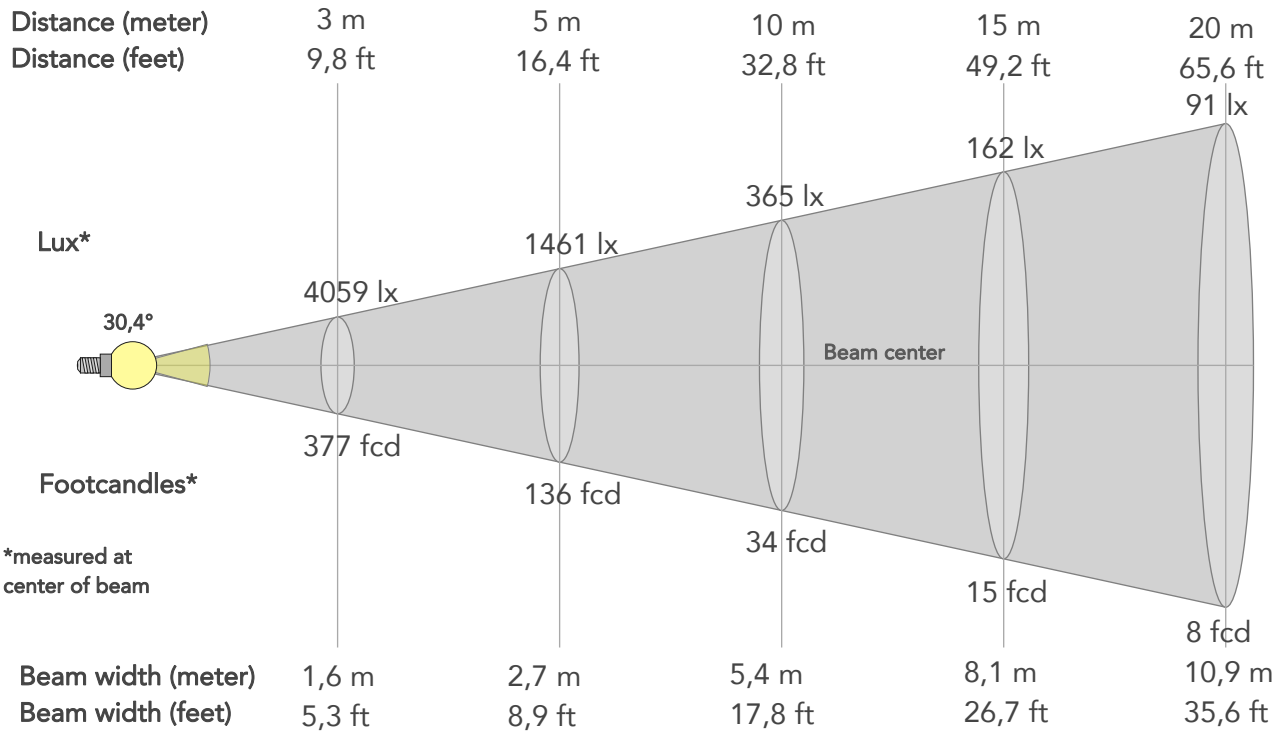
BEAM DETAILS

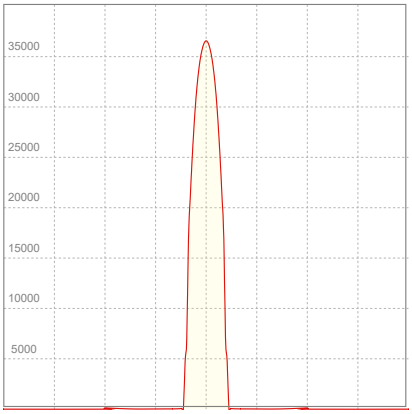
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	38,1°	39,9°	97,7%	97,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	36529lx	9132lx	4059lx	2283lx	1461lx	649lx	365lx	162lx	91lx	58lx	41lx	23lx	15lx
Footcand.	3394fcd	848fcd	377fcd	212fcd	136fcd	60fcd	34fcd	15fcd	8fcd	5fcd	4fcd	2fcd	1fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,4m	8,1m	10,9m	13,6m	16,3m	21,7m	27,1m
Beam wid.	1,8ft	3,6ft	5,3ft	7,1ft	8,9ft	13,4ft	17,8ft	26,7ft	35,6ft	44,5ft	53,4ft	71,2ft	89ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	1,30A	276,1W	0,95	27lm/W

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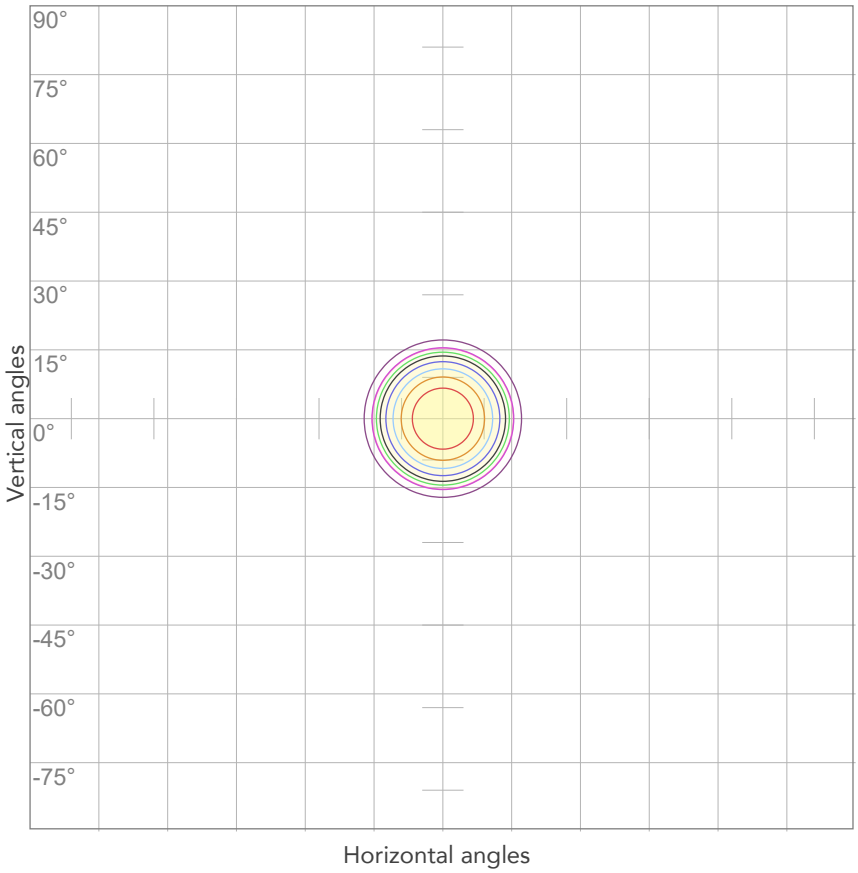
ISO DIAGRAMS

ISO CANDELA DIAGRAM



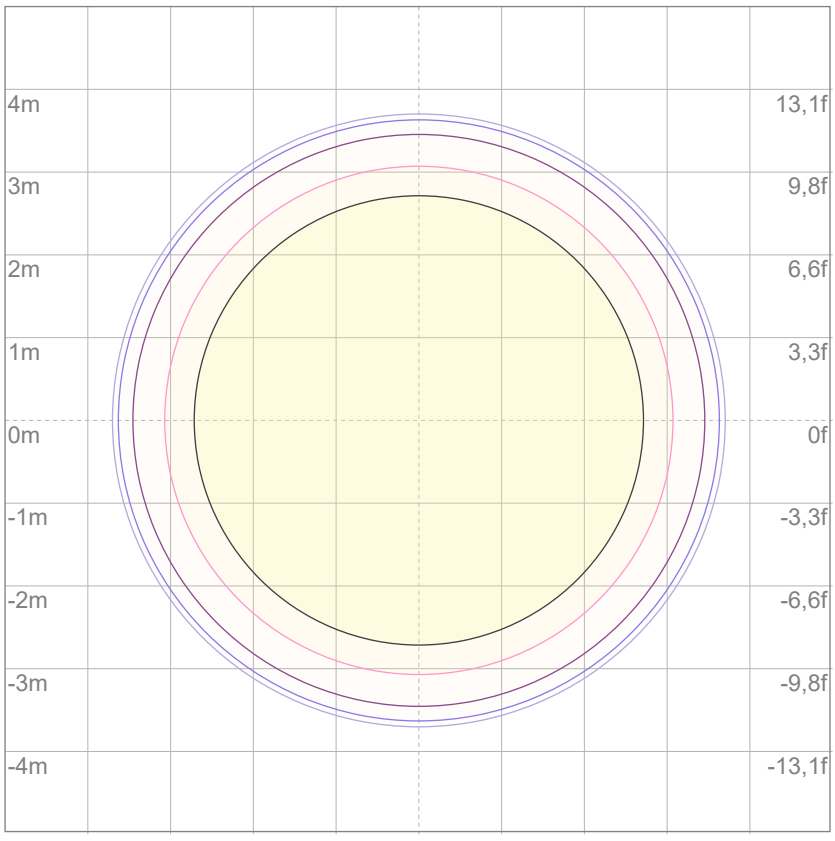
10%	3653 cd
20%	7306 cd
30%	10959 cd
40%	14612 cd
50%	18264 cd
60%	21917 cd
70%	25570 cd
80%	29223 cd

Conditions:

Number of c-planes: 2

Candela at center: 36529 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	11,0 lx
5%	18,3 lx
10%	36,5 lx
30%	110 lx
50%	183 lx

Conditions:

Number of c-planes: 2

Lux at center: 365 lx

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

Total lumen output:

7794 lm

Peak candela output:

268836 cd

Light quality:

CRI: 67,5

Color temperature:

7077 K

PRODUCT NAME:

JETHYB200

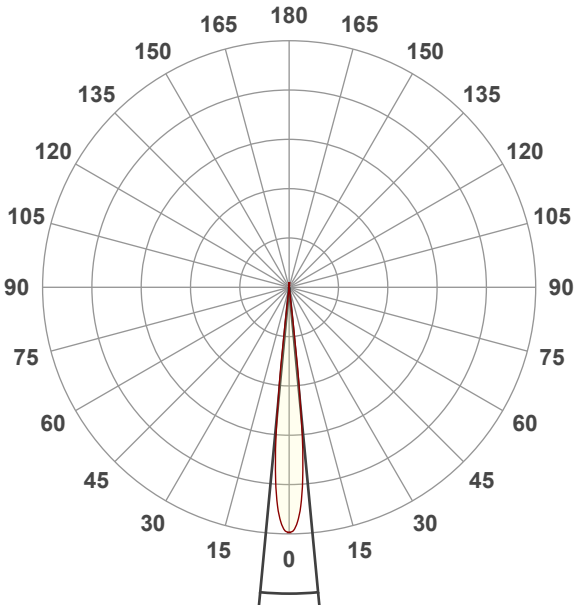
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
Full On

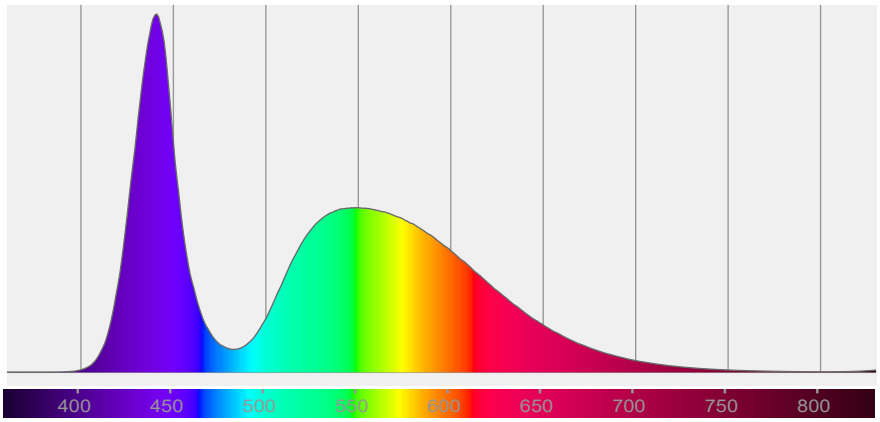
Operator:
Salvatore Giglio

Date and time:
04/01/2024 18:11:01

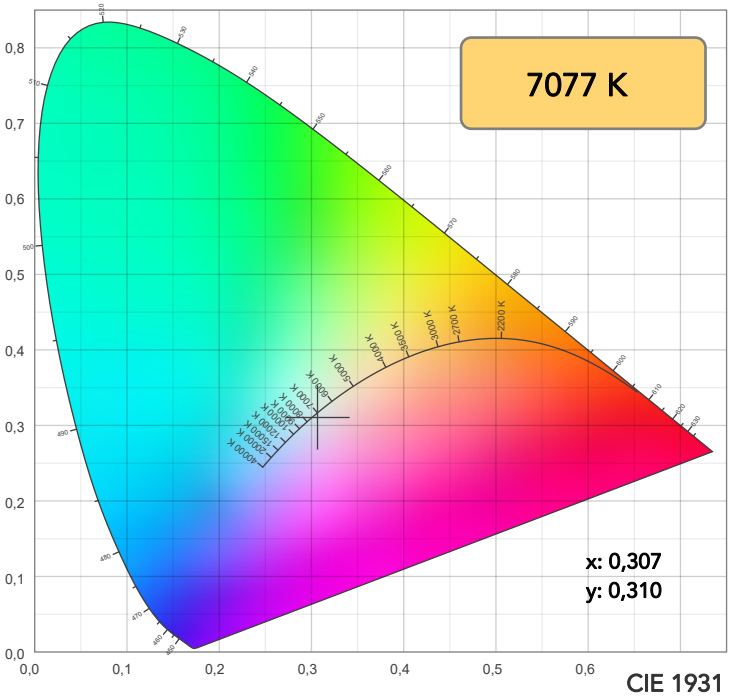


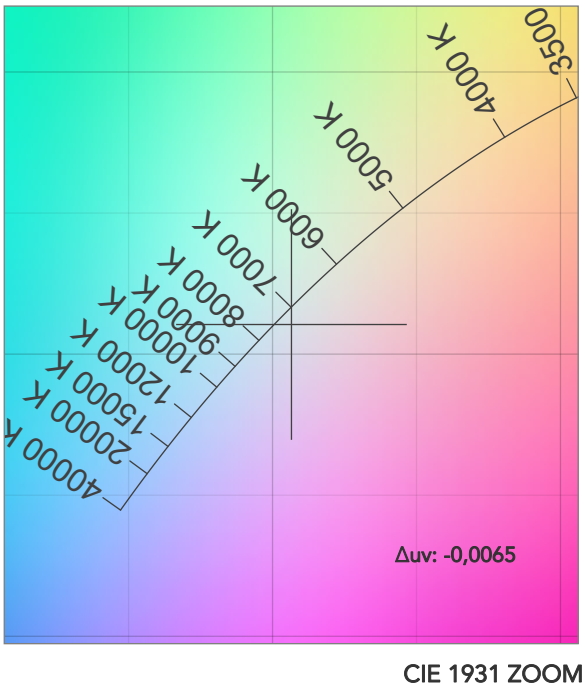
Beam angle 50%: 10,8°
Field angle 10%: 13,5°
Cut off angle 2.5%: 14°

Spectra

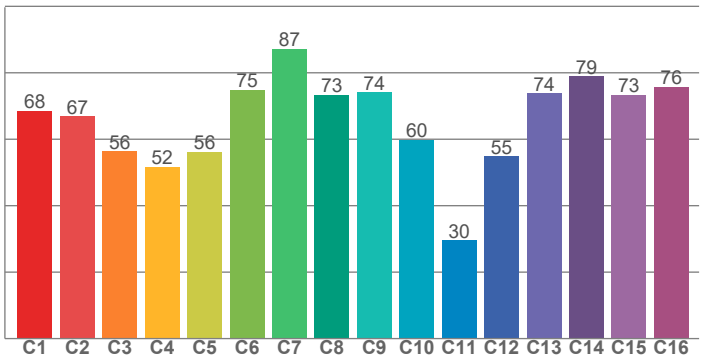


COLOR DETAILS

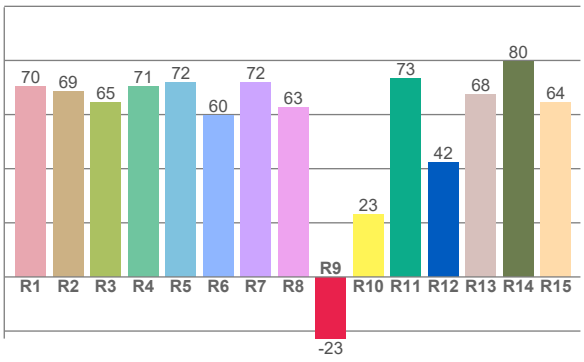




TM30: 65,1



CRI: 67,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
70,4	68,6	64,6	70,5	71,7	59,8	71,9	62,5	-22,8	23,2	73,4	42,3	67,5	79,5	64,4

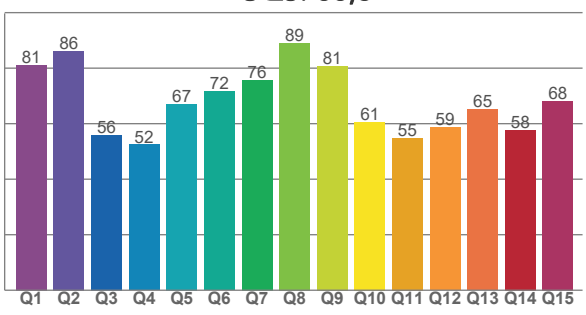
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68,5	66,9	56,4	51,6	56,2	74,8	87,3	73,4	74,2	59,8	29,6	54,9	73,8	79,0	73,4	75,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,1	86,3	55,9	52,5	67,1	71,7	75,7	89,0	80,8	60,6	54,9	58,7	65,2	57,8	68,2

CQS: 66,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7077 K	67,5	-22,8	65,1	96,9	66,3	42	0,307	0,310	-0,0065

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TM30 DETAILS

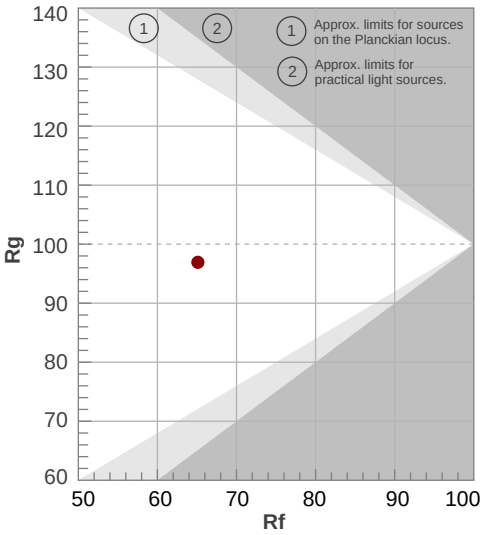
Rf 65,1

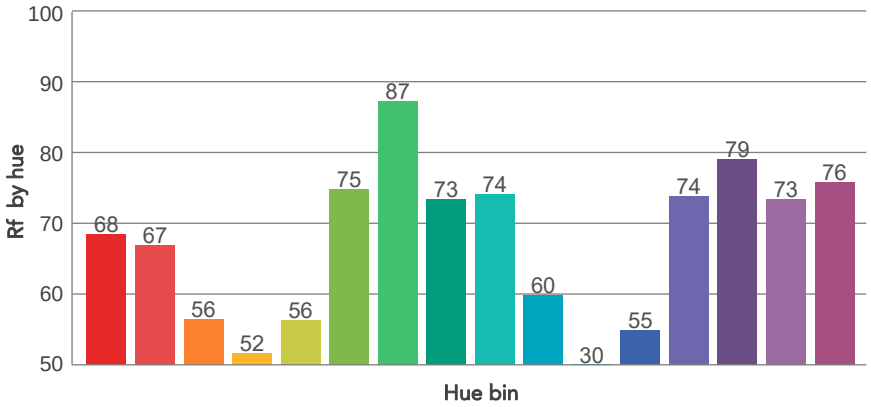
Fidelity index Rf

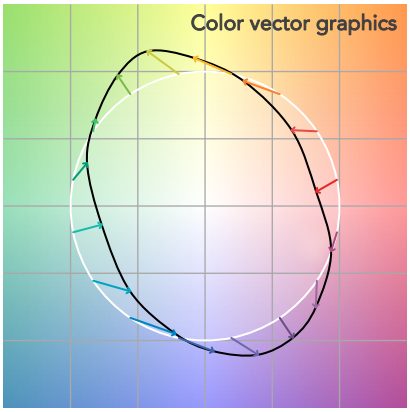
Rg 96,9

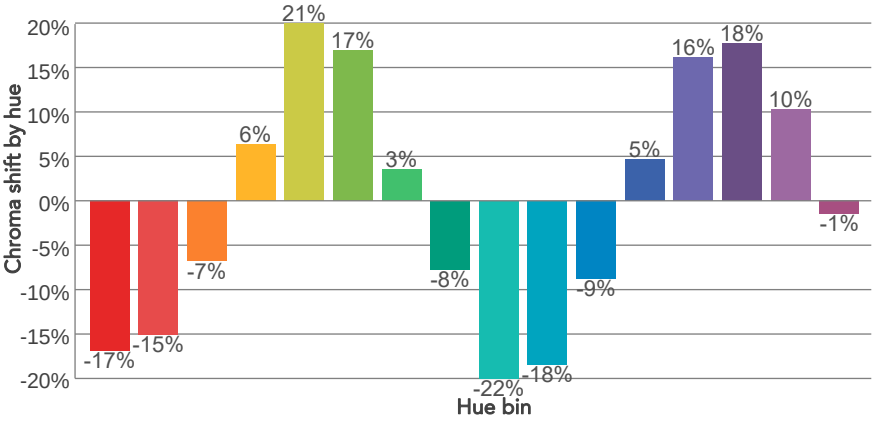
Gamut index

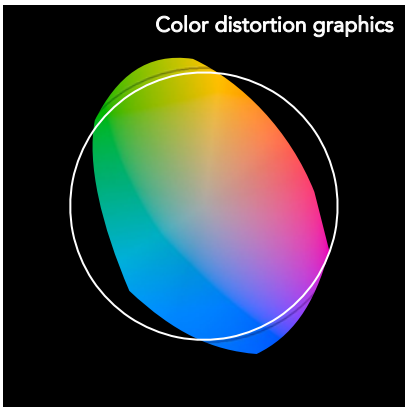
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	68	-17%	-6%
2	67	-15%	11%
3	56	-7%	28%
4	52	6%	30%
5	56	21%	20%
6	75	17%	0%
7	87	3%	-8%
8	73	-8%	-14%
9	74	-22%	-1%
10	60	-18%	22%
11	30	-9%	34%
12	55	5%	27%
13	74	16%	17%
14	79	18%	0%
15	73	10%	-17%
16	76	-1%	-15%

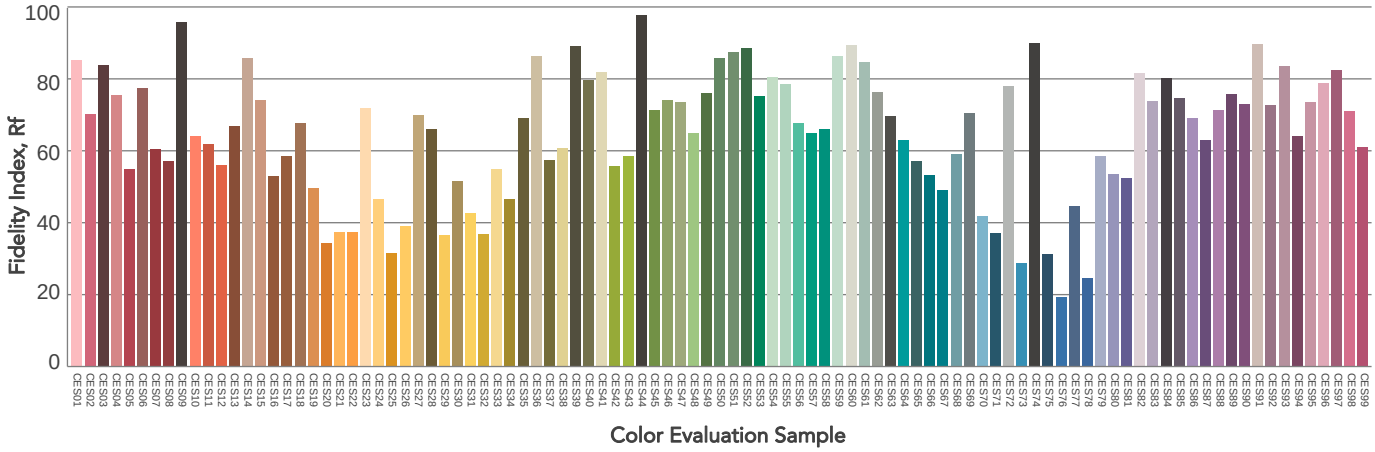












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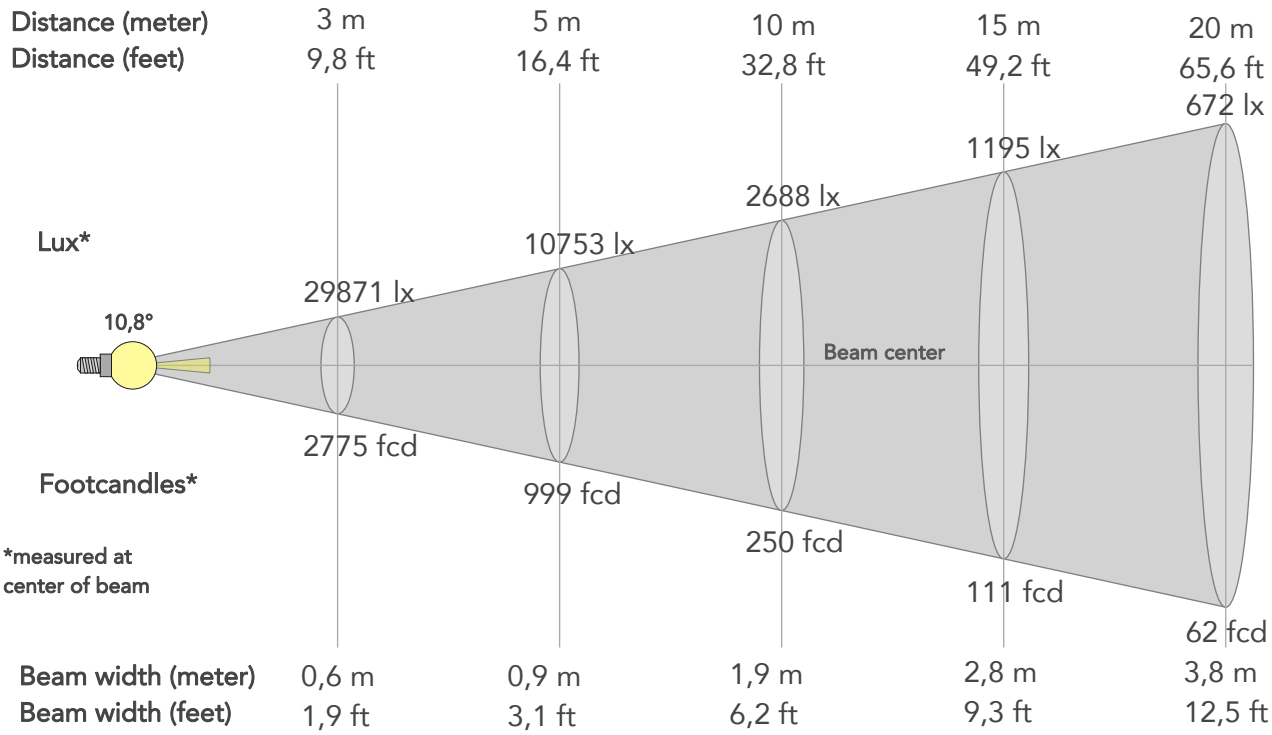
BEAM DETAILS

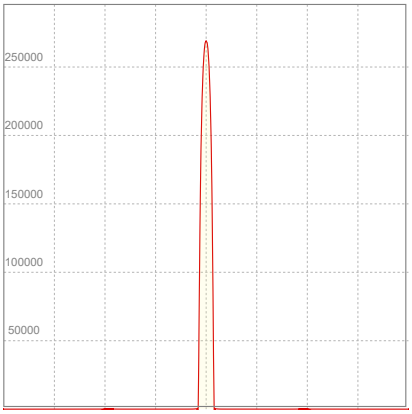
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,8°	13,5°	14°	94,6%	94,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	268836lx	67209lx	29871lx	16802lx	10753lx	4779lx	2688lx	1195lx	672lx	430lx	299lx	168lx	108lx
Footcand.	24976fcd	6244fcd	2775fcd	1561fcd	999fcd	444fcd	250fcd	111fcd	62fcd	40fcd	28fcd	16fcd	10fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	0,9m	1,4m	1,9m	2,8m	3,8m	4,7m	5,7m	7,6m	9,5m
Beam wid.	0,6ft	1,3ft	1,9ft	2,5ft	3,1ft	4,7ft	6,2ft	9,3ft	12,5ft	15,6ft	18,7ft	24,9ft	31,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
226V	1,29A	276,4W	0,95	28lm/W

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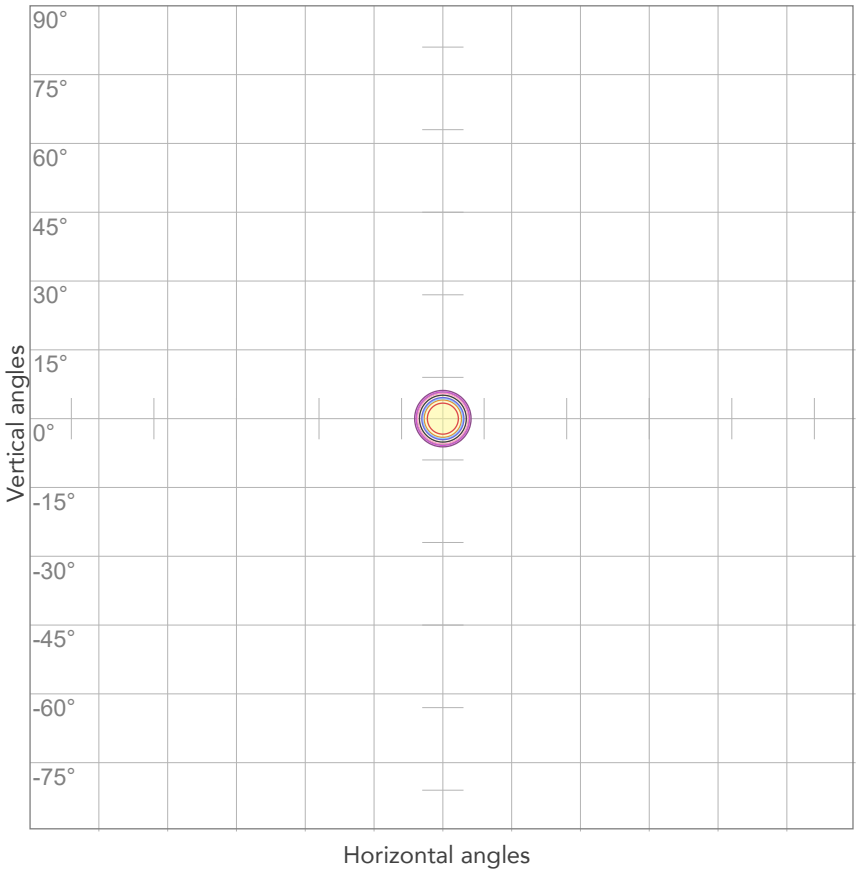
ISO DIAGRAMS

ISO CANDELA DIAGRAM



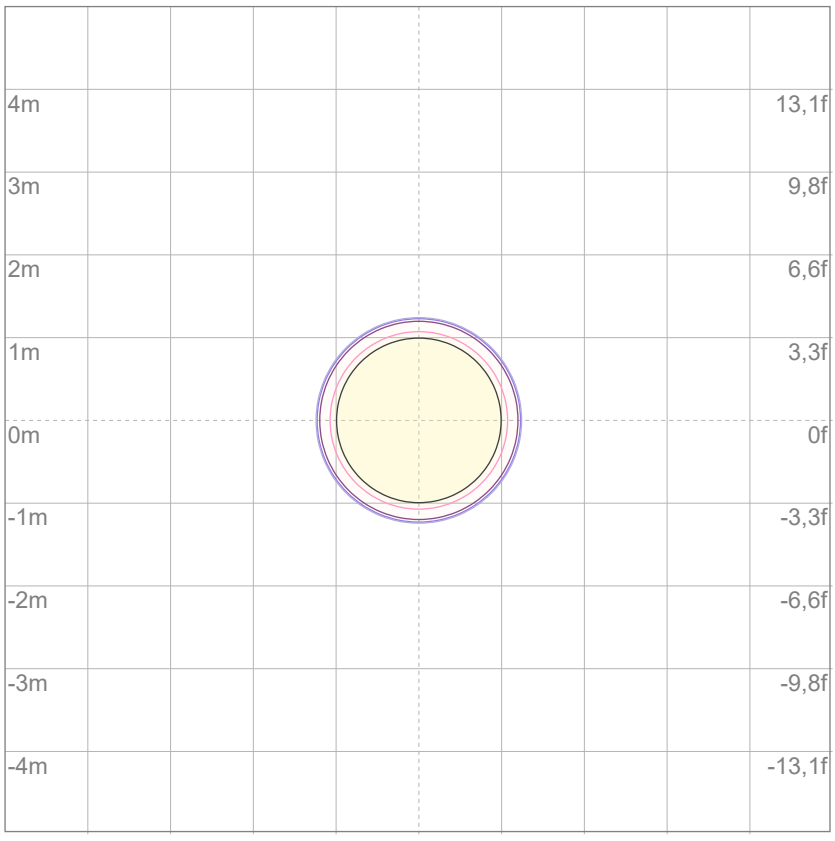
10%	26884 cd
20%	53767 cd
30%	80651 cd
40%	107534 cd
50%	134418 cd
60%	161301 cd
70%	188185 cd
80%	215068 cd

Conditions:

Number of c-planes: 2

Candela at center: 268836 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	80,7 lx
5%	134 lx
10%	269 lx
30%	807 lx
50%	1344 lx

Conditions:

Number of c-planes: 2

Lux at center: 2688 lx

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

Total lumen output:

5962 lm

Peak candela output:

1737585 cd

Light quality:

CRI: 67,5

Color temperature:

6926 K

PRODUCT NAME:

JETHYB200

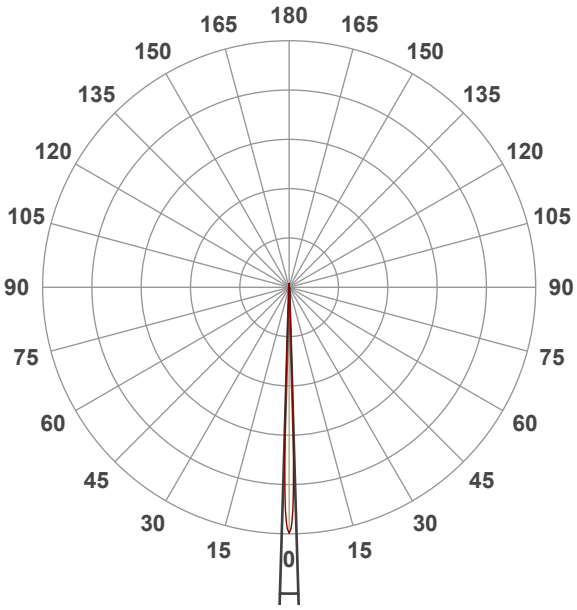
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
Full On

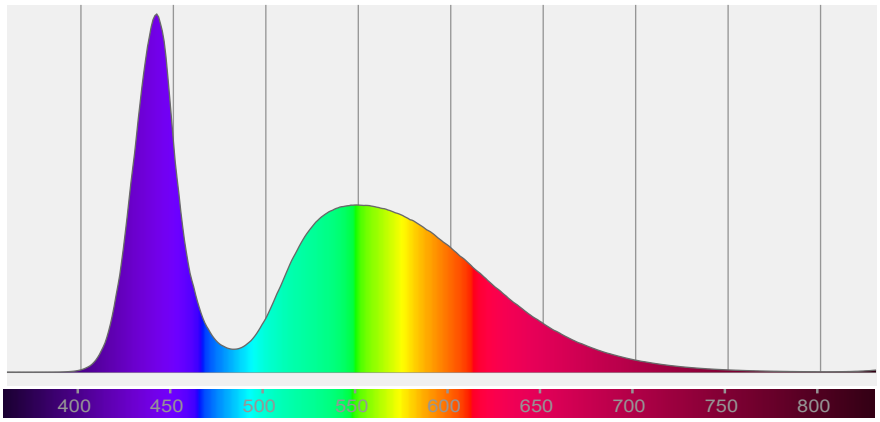
Operator:
Salvatore Giglio

Date and time:
04/01/2024 18:15:07

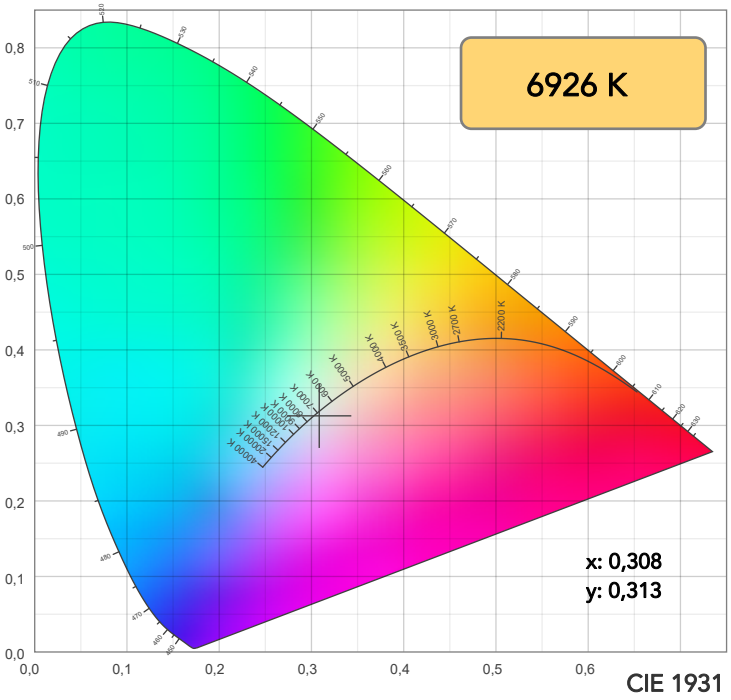


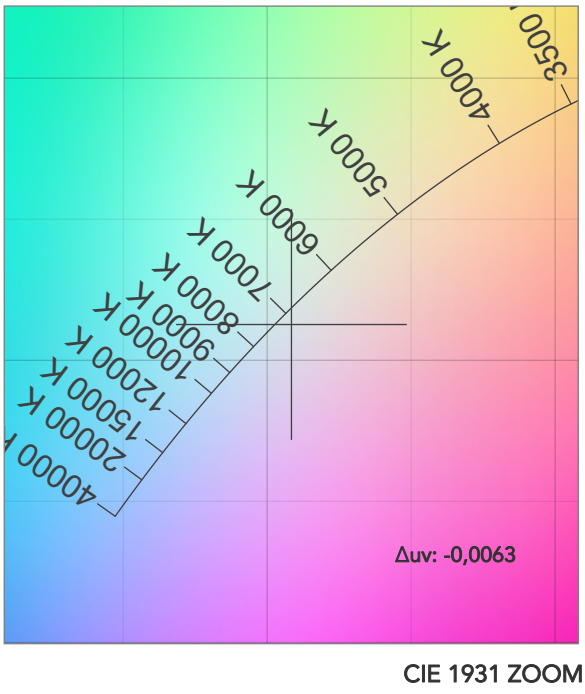
Beam angle 50%: 3,4°
Field angle 10%: 4,7°
Cut off angle 2.5%: 5°

Spectra

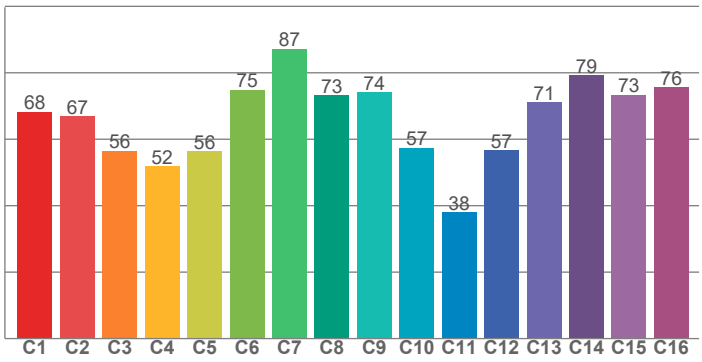


COLOR DETAILS

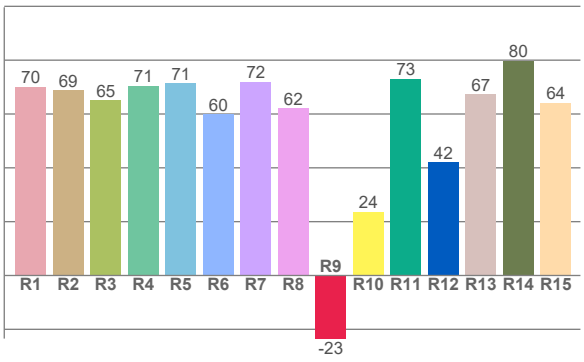




TM30: 65,2



CRI: 67,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
70,2	68,7	65,1	70,6	71,4	59,8	72,1	62,2	-23,4	23,7	73,1	42,2	67,4	79,8	64,1

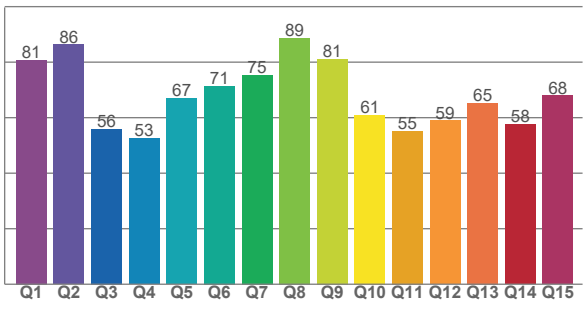
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
68,3	66,8	56,5	51,9	56,4	74,9	87,2	73,2	74,1	57,3	37,9	56,6	71,1	79,2	73,3	75,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80,8	86,4	55,9	52,6	67,0	71,4	75,4	88,7	81,1	60,9	55,2	58,9	65,2	57,6	67,9

CQS: 66,3



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6926 K	67,5	-23,4	65,2	97,2	66,3	42	0,308	0,313	-0,0063

TM30 DETAILS

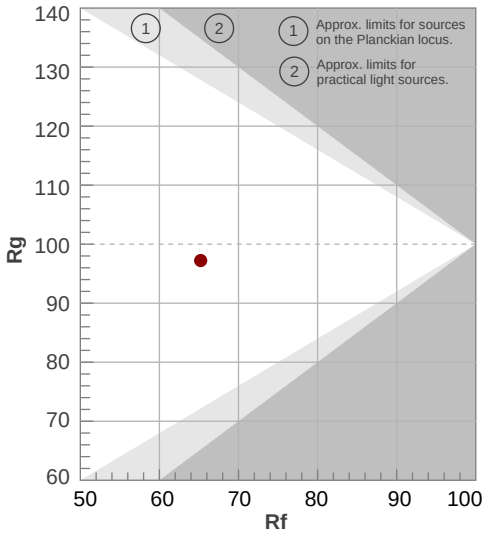
Rf 65,2

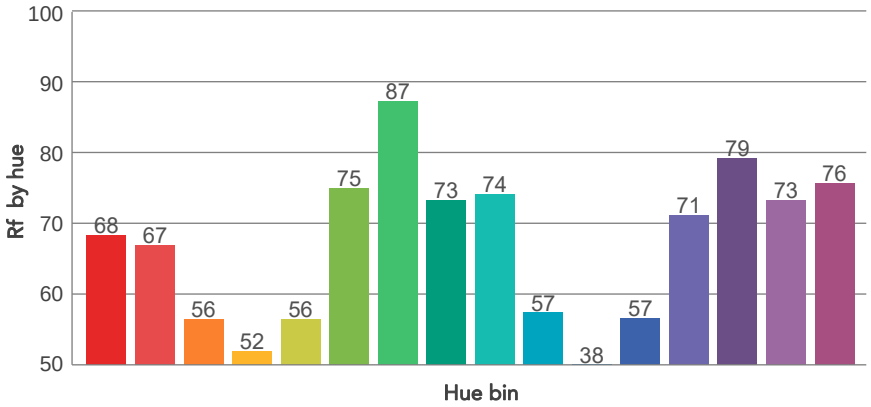
Fidelity index Rf

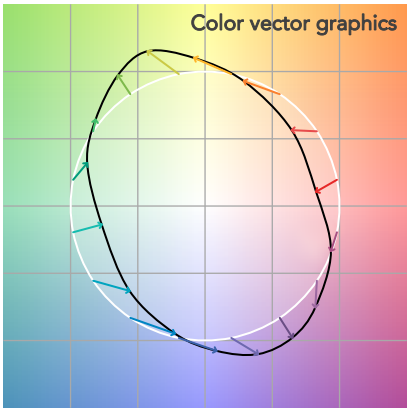
Rg 97,2

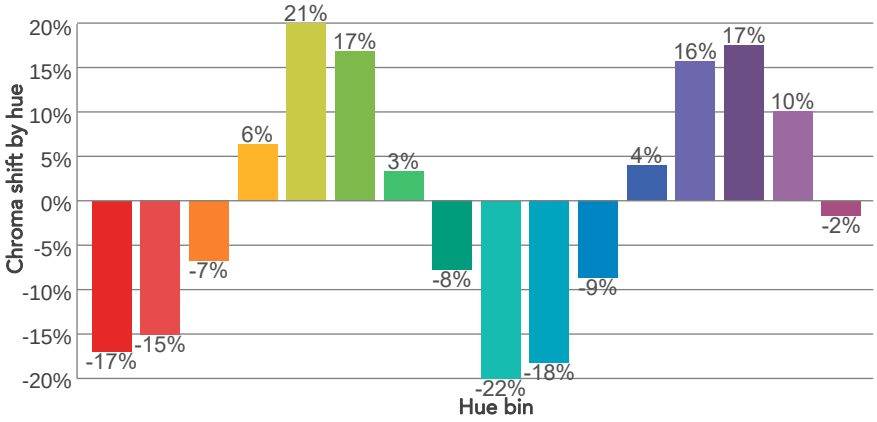
Gammut index

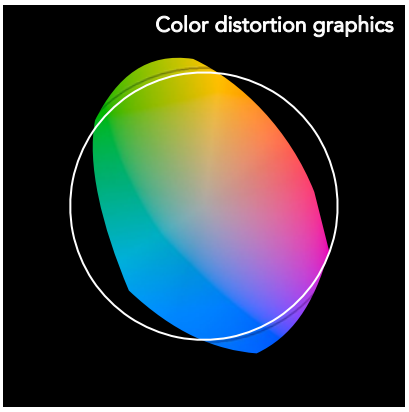
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	68	-17%	-6%
2	67	-15%	11%
3	56	-7%	28%
4	52	6%	29%
5	56	21%	19%
6	75	17%	0%
7	87	3%	-8%
8	73	-8%	-14%
9	74	-22%	-1%
10	57	-18%	21%
11	38	-9%	34%
12	57	4%	29%
13	71	16%	17%
14	79	17%	0%
15	73	10%	-17%
16	76	-2%	-15%

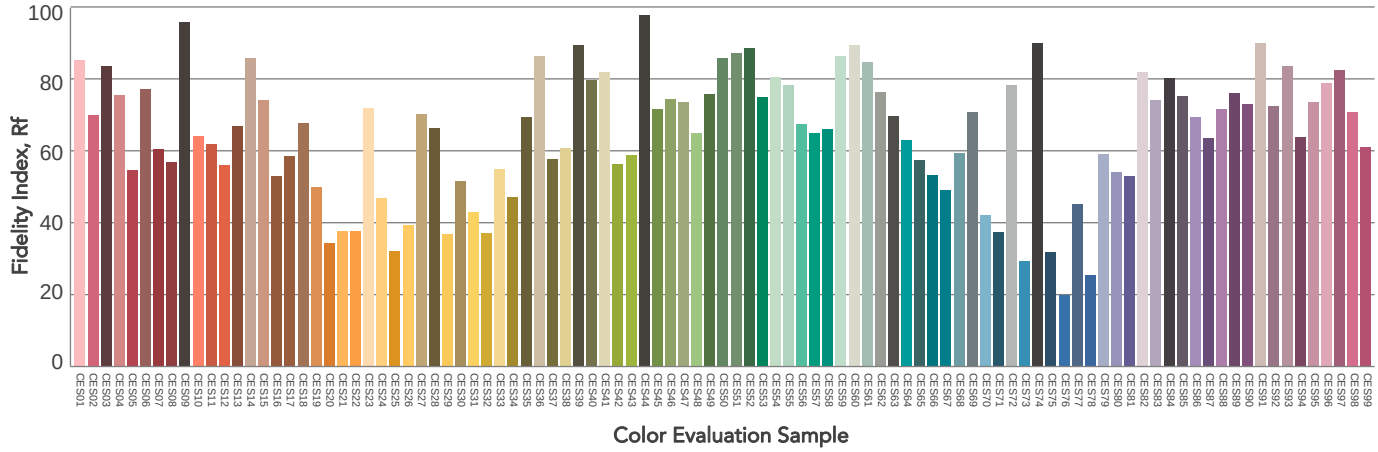












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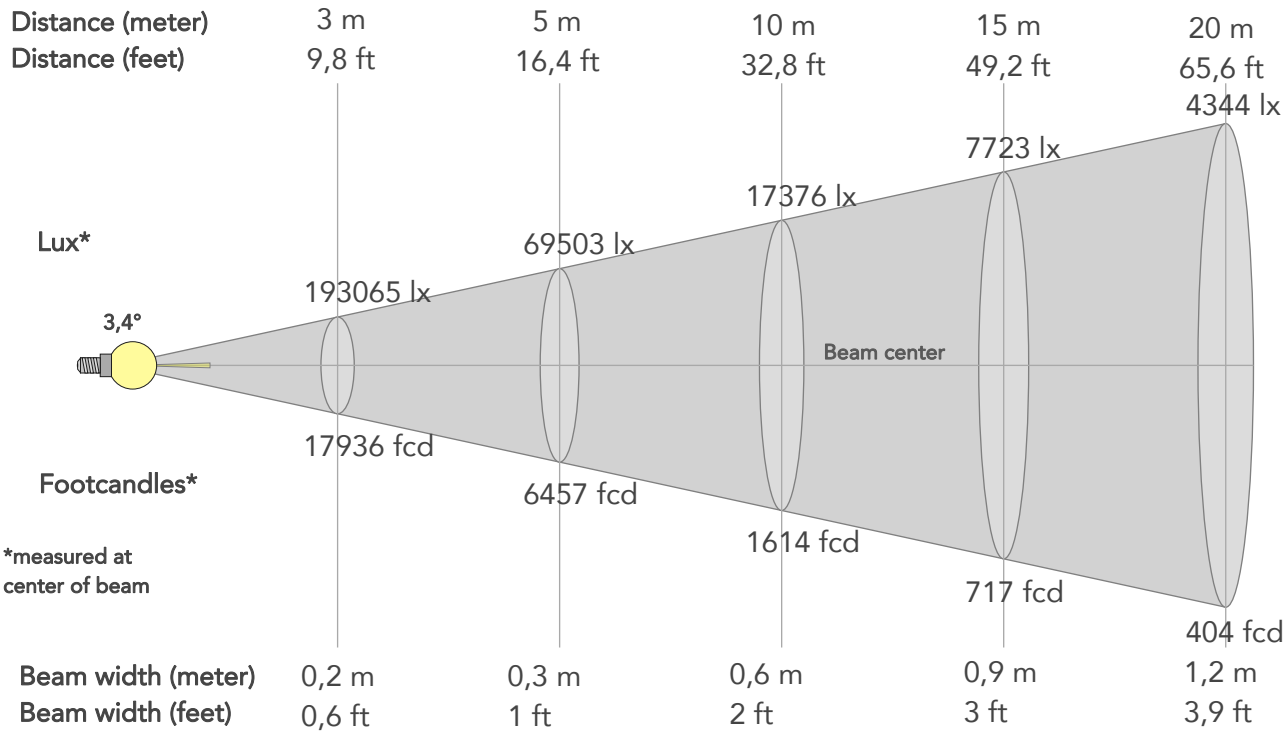
BEAM DETAILS

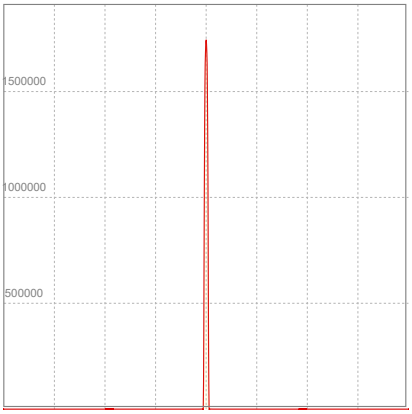
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,4°	4,7°	5°	88,9%	87,1%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1737585lx	434396lx	193065lx	108599lx	69503lx	30890lx	17376lx	7723lx	4344lx	2780lx	1931lx	1086lx	695lx
Footcand.	161427fcd	40357fcd	17936fcd	10089fcd	6457fcd	2870fcd	1614fcd	717fcd	404fcd	258fcd	179fcd	101fcd	65fcd
Beam wid.	0,1m	0,1m	0,2m	0,2m	0,3m	0,5m	0,6m	0,9m	1,2m	1,5m	1,8m	2,4m	3m
Beam wid.	0,2ft	0,4ft	0,6ft	0,8ft	1ft	1,5ft	2ft	3ft	3,9ft	4,9ft	5,9ft	7,9ft	9,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	1,30A	275,5W	0,95	22lm/W

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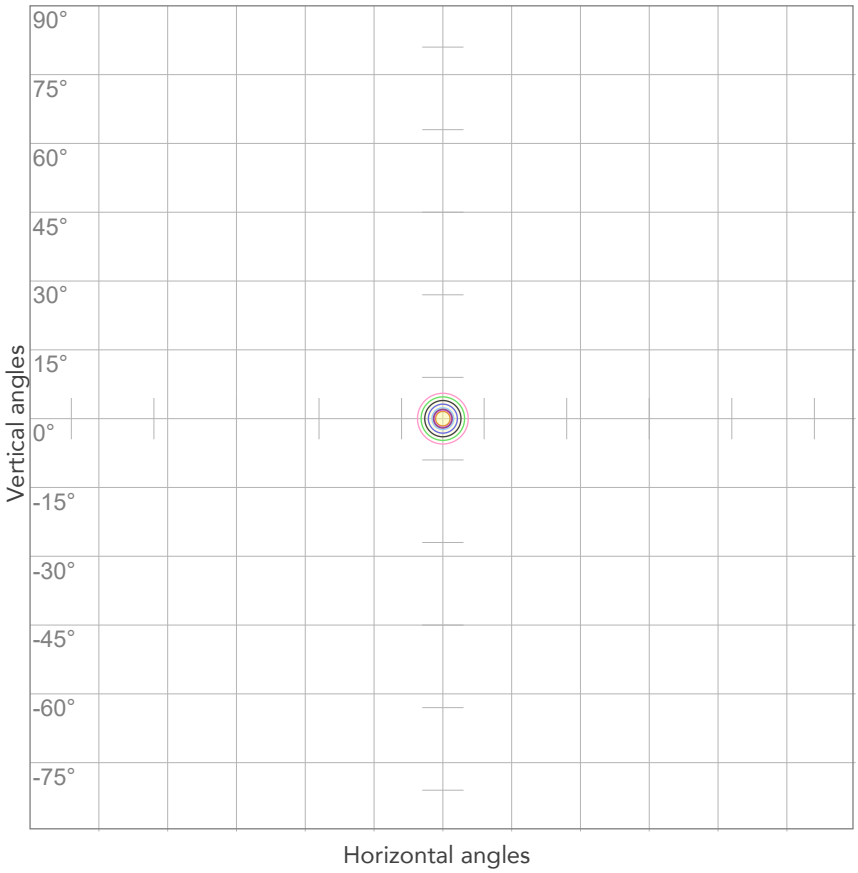
ISO DIAGRAMS

ISO CANDELA DIAGRAM



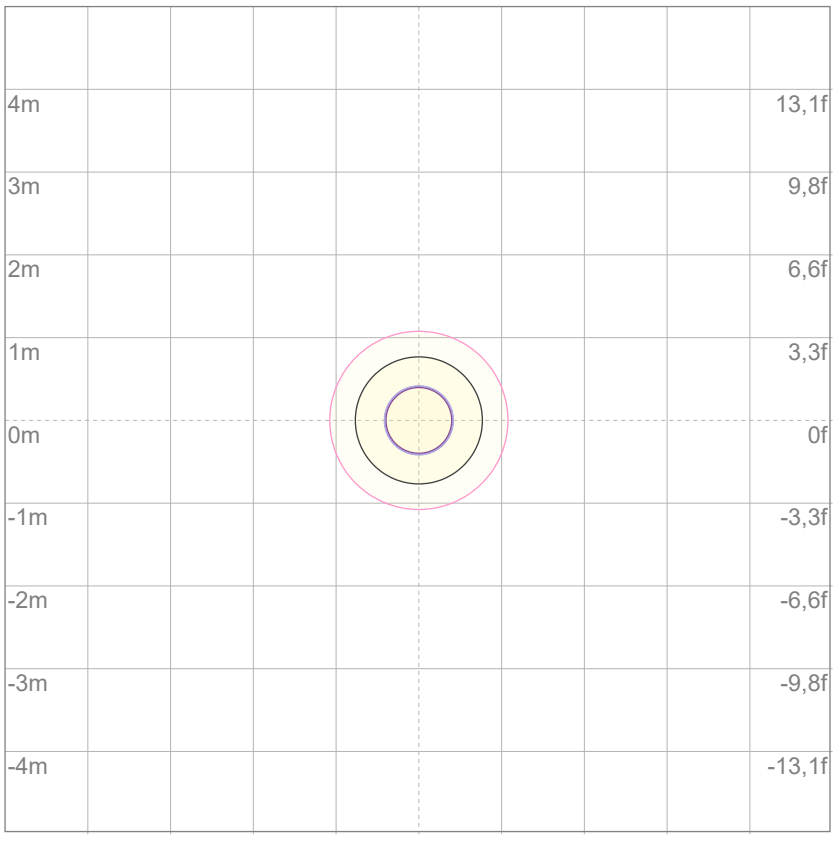
10%	173758 cd
20%	347517 cd
30%	521275 cd
40%	695034 cd
50%	868792 cd
60%	1042551 cd
70%	1216309 cd
80%	1390068 cd

Conditions:

Number of c-planes: 2

Candela at center: 1737585 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	521 lx
5%	869 lx
10%	1738 lx
30%	5213 lx
50%	8688 lx

Conditions:

Number of c-planes: 2

Lux at center: 17,4K lx

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

Total lumen output:

3636 lm

Peak candela output:

17531 cd

Light quality:

CRI: 63,1

Color temperature:

3240 K

PRODUCT NAME:

JETHYB200

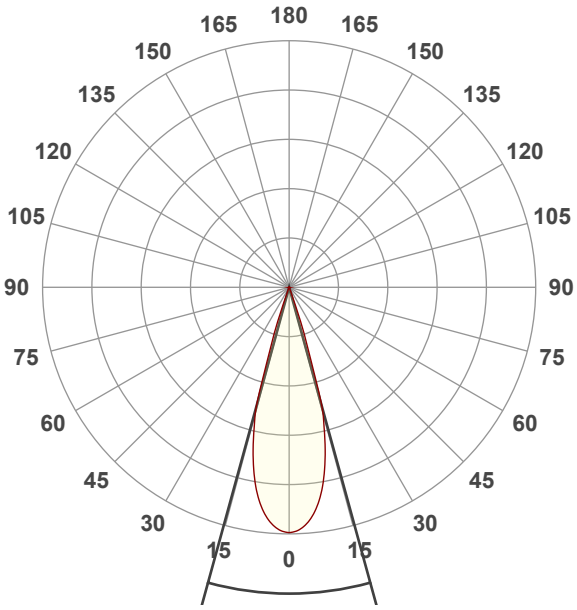
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
CTO 3200k

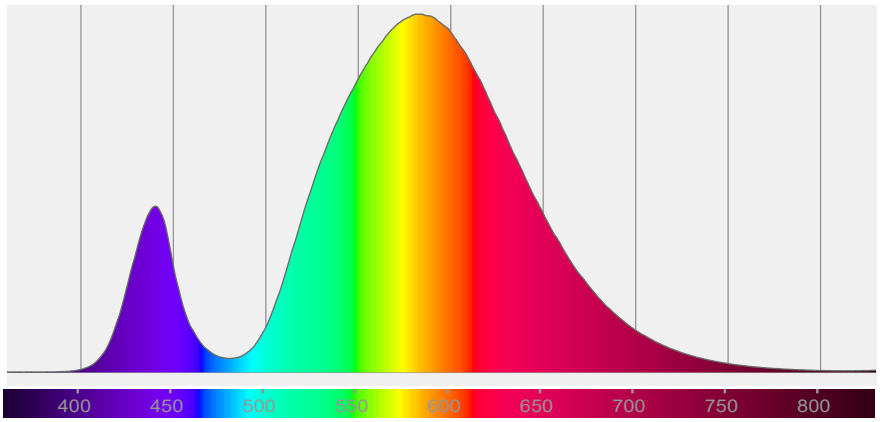
Operator:
Salvatore Giglio

Date and time:
04/01/2024 17:12:12

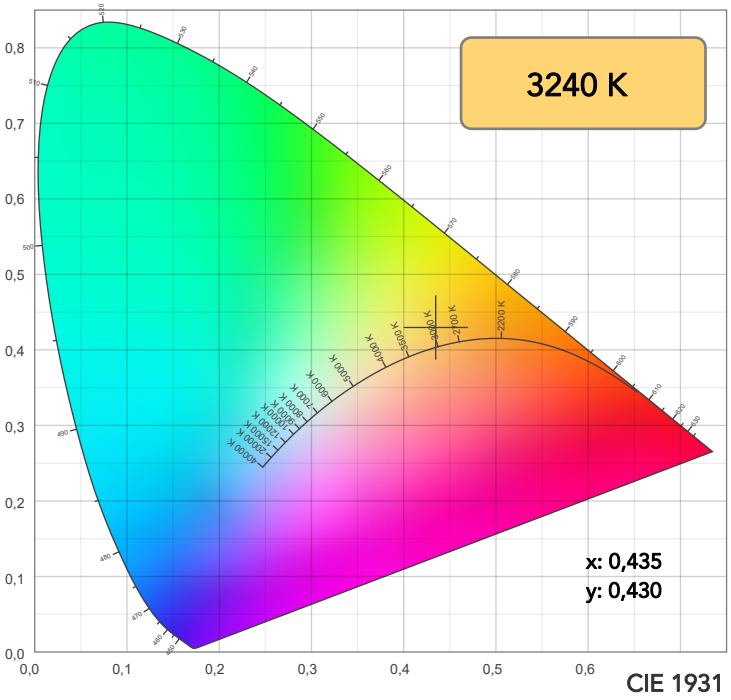


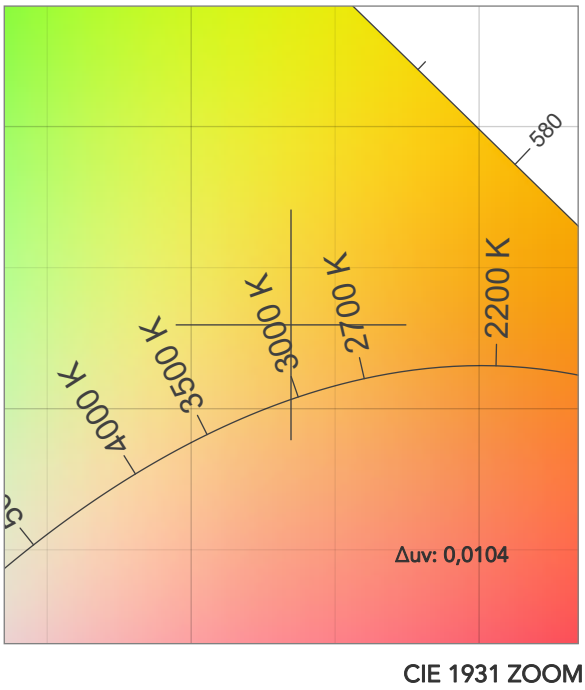
Beam angle 50%: 30,7°
Field angle 10%: 38,2°
Cut off angle 2.5%: 40°

Spectra

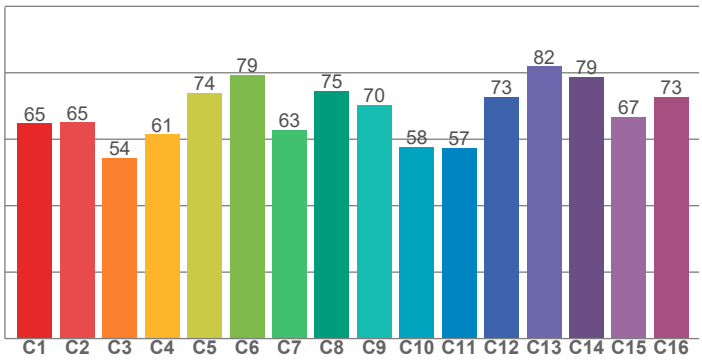


COLOR DETAILS

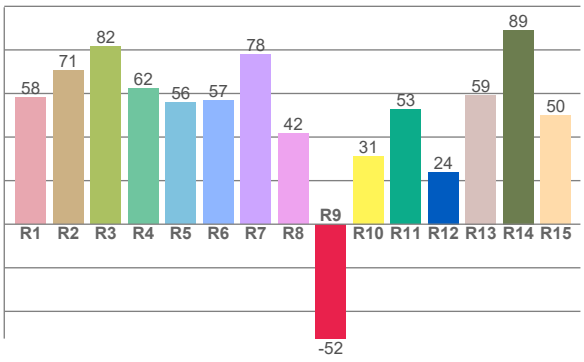




TM30: 67,7



CRI: 63,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
58,3	70,5	81,7	62,2	55,8	56,9	77,9	41,7	-52,5	31,3	52,7	23,9	59,2	89,2	49,8

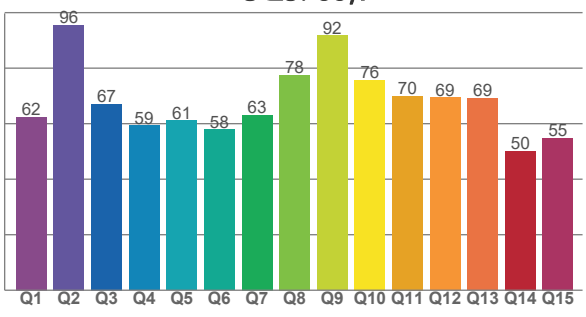
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64,8	65,1	54,3	61,4	73,9	79,4	62,9	74,6	70,4	57,8	57,4	72,8	81,9	78,8	66,8	72,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
62,4	95,6	67,2	59,3	61,1	57,9	63,1	77,5	91,7	75,7	70,0	69,4	69,1	50,1	54,8

CQS: 65,9



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
3240 K	63,1	-52,5	67,7	91,6	65,9	35	0,435	0,430	0,0104

TM30 DETAILS

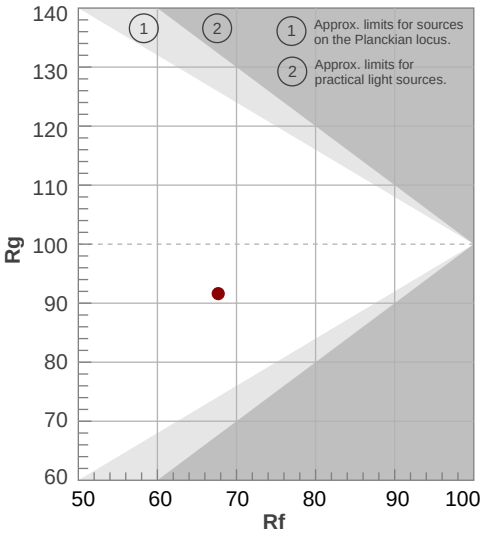
Rf 67,7

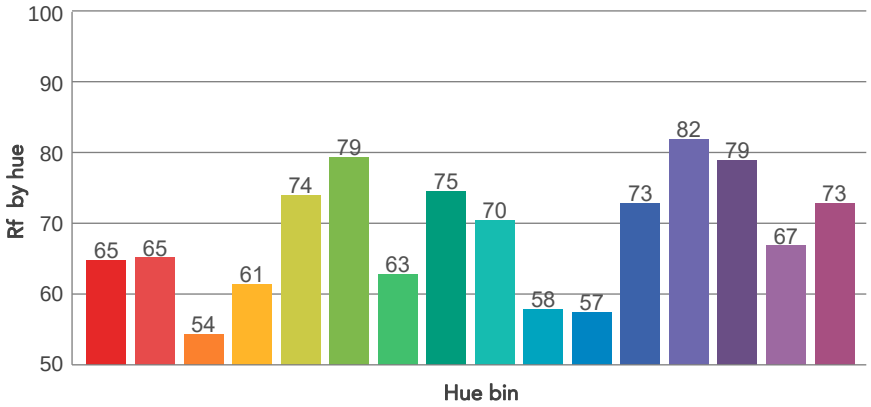
Fidelity index Rf

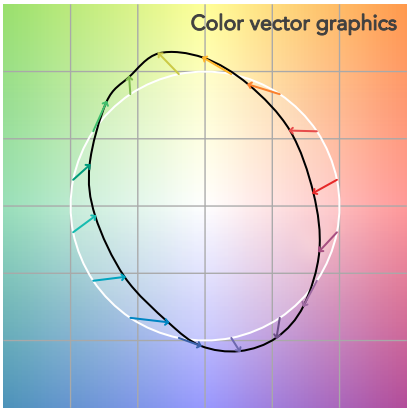
Rg 91,6

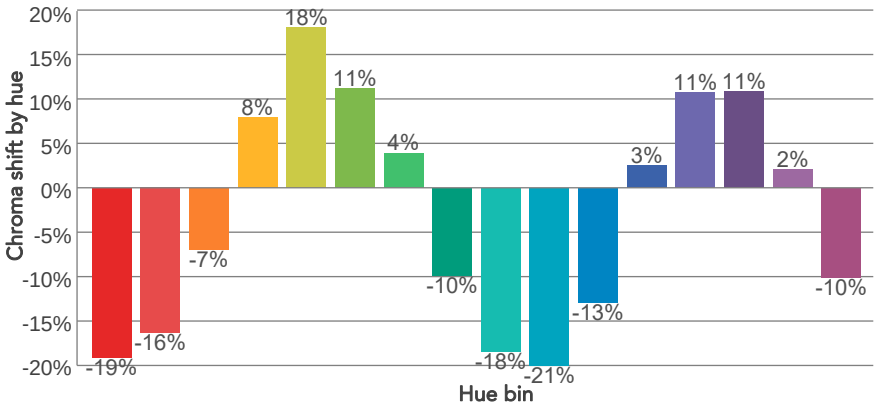
Gammut index

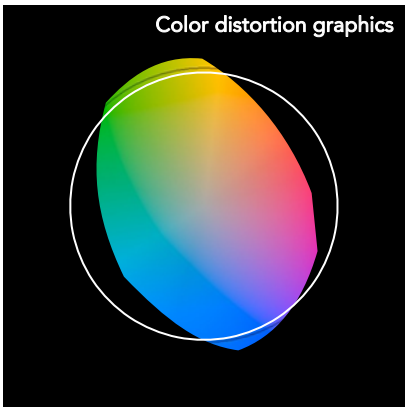
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	65	-19%	-6%
2	65	-16%	12%
3	54	-7%	23%
4	61	8%	23%
5	74	18%	12%
6	79	11%	-6%
7	63	4%	-24%
8	75	-10%	-13%
9	70	-18%	-9%
10	58	-21%	11%
11	57	-13%	25%
12	73	3%	17%
13	82	11%	4%
14	79	11%	-10%
15	67	2%	-21%
16	73	-10%	-16%

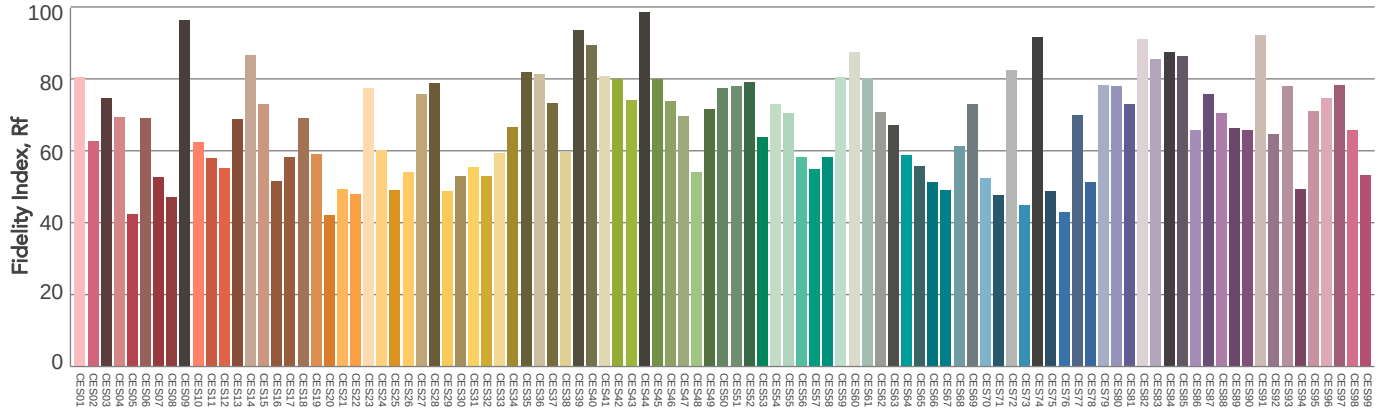












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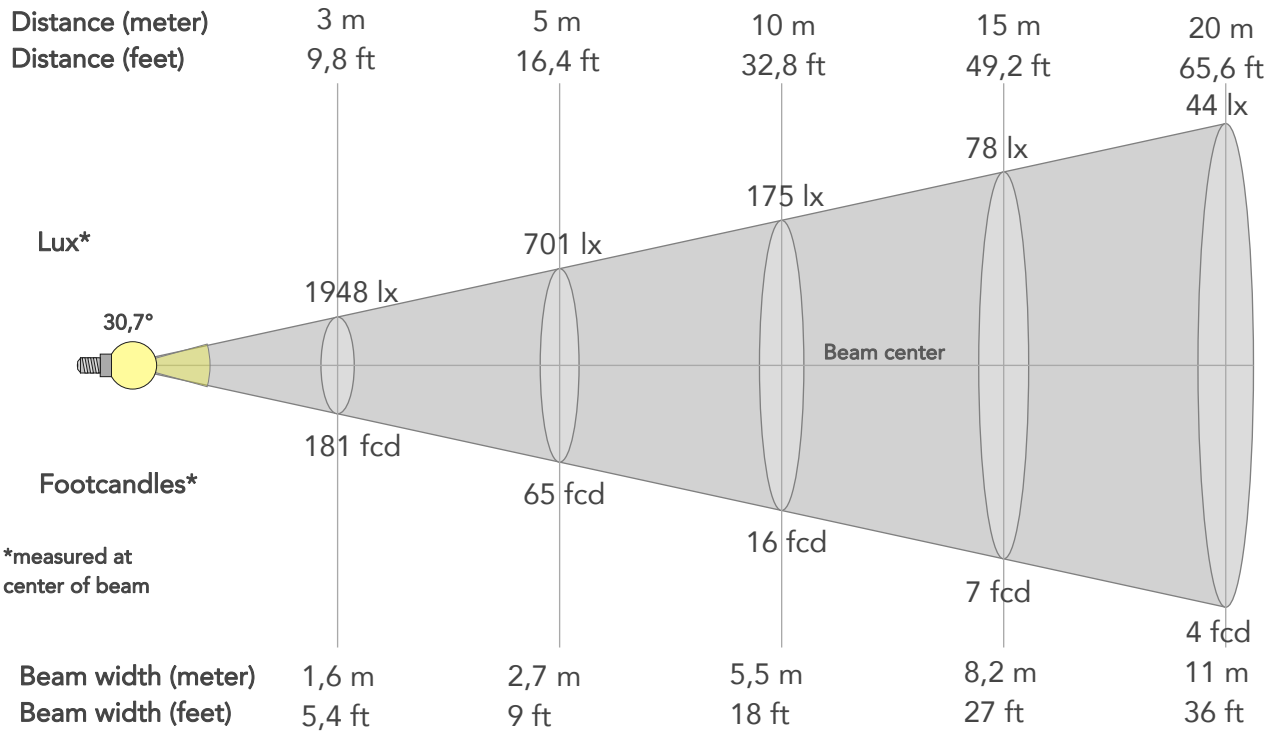
BEAM DETAILS

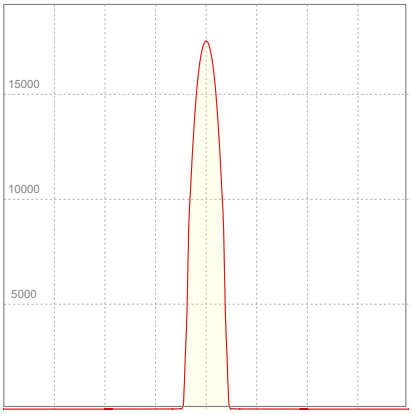
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,7°	38,2°	40°	99,6%	99,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	17531lx	4383lx	1948lx	1096lx	701lx	312lx	175lx	78lx	44lx	28lx	19lx	11lx	7lx
Footcand.	1629fcd	407fcd	181fcd	102fcd	65fcd	29fcd	16fcd	7fcd	4fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,5m	8,2m	11m	13,7m	16,5m	22m	27,5m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9ft	13,5ft	18ft	27ft	36ft	45ft	54,1ft	72,1ft	90,1ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
223V	1,31A	280,1W	0,95	13lm/W

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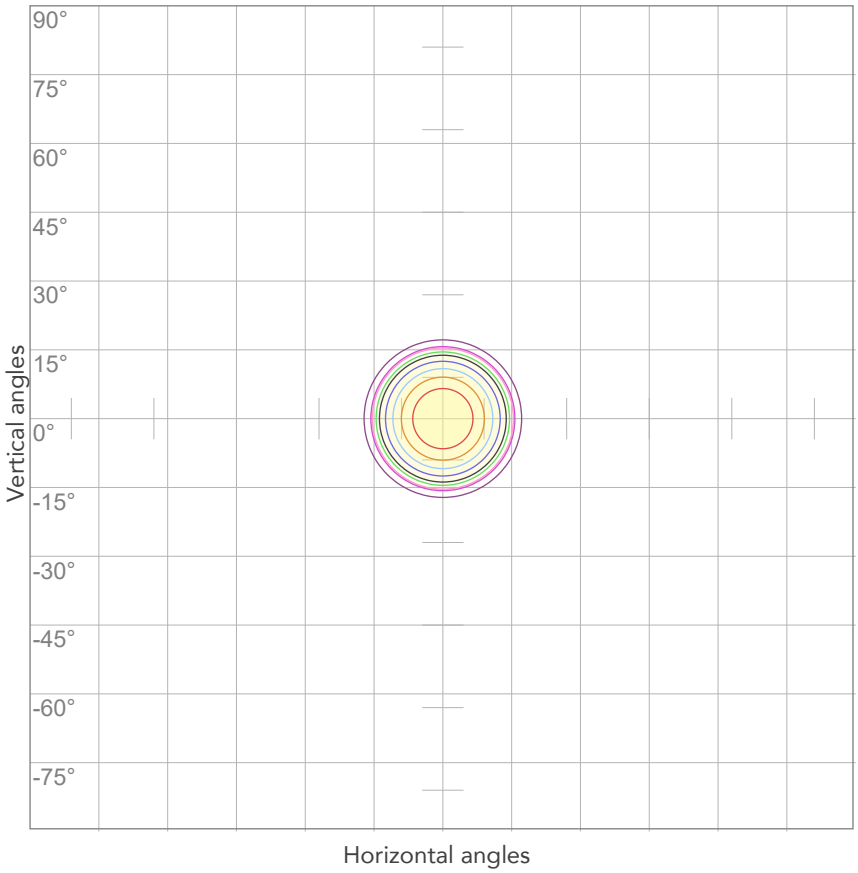
ISO DIAGRAMS

ISO CANDELA DIAGRAM



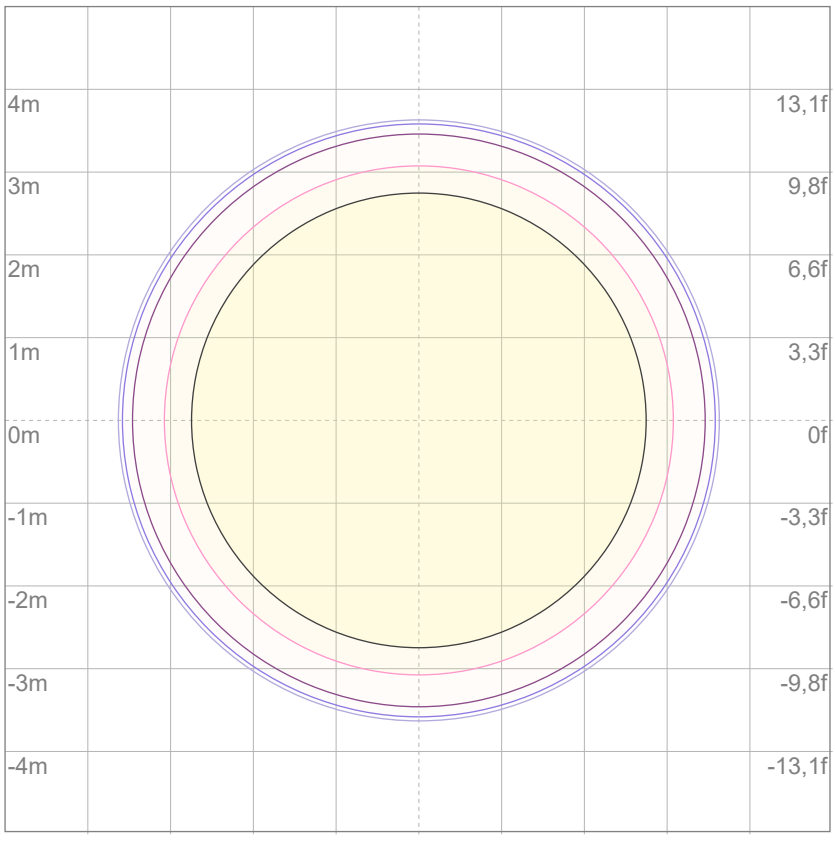
10%	1753 cd
20%	3506 cd
30%	5259 cd
40%	7012 cd
50%	8766 cd
60%	10519 cd
70%	12272 cd
80%	14025 cd

Conditions:

Number of c-planes: 2

Candela at center: 17531 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	5,26 lx
5%	8,77 lx
10%	17,5 lx
30%	52,6 lx
50%	87,7 lx

Conditions:

Number of c-planes: 2

Lux at center: 175 lx

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

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Total lumen output:

3663 lm

Peak candela output:

128439 cd

Light quality:

CRI: 63,2

Color temperature:

3242 K

PRODUCT NAME:

JETHYB200

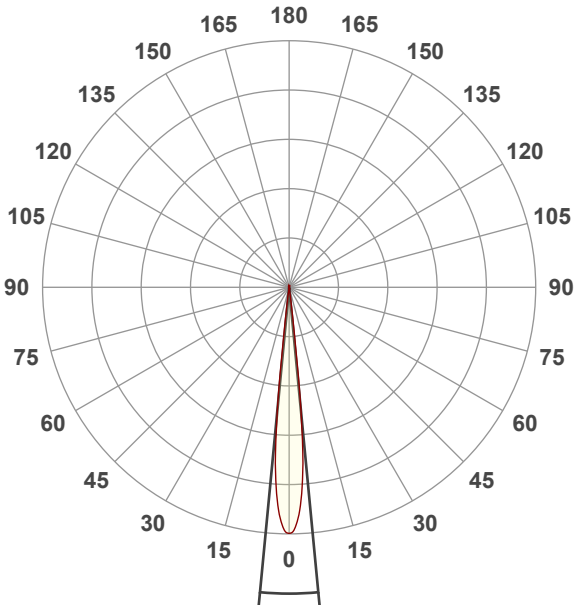
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
CTO 3200k

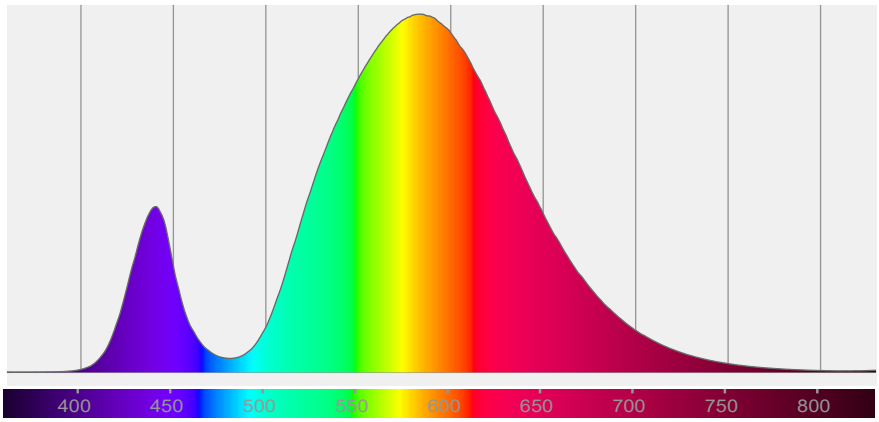
Operator:
Salvatore Giglio

Date and time:
04/01/2024 17:30:11

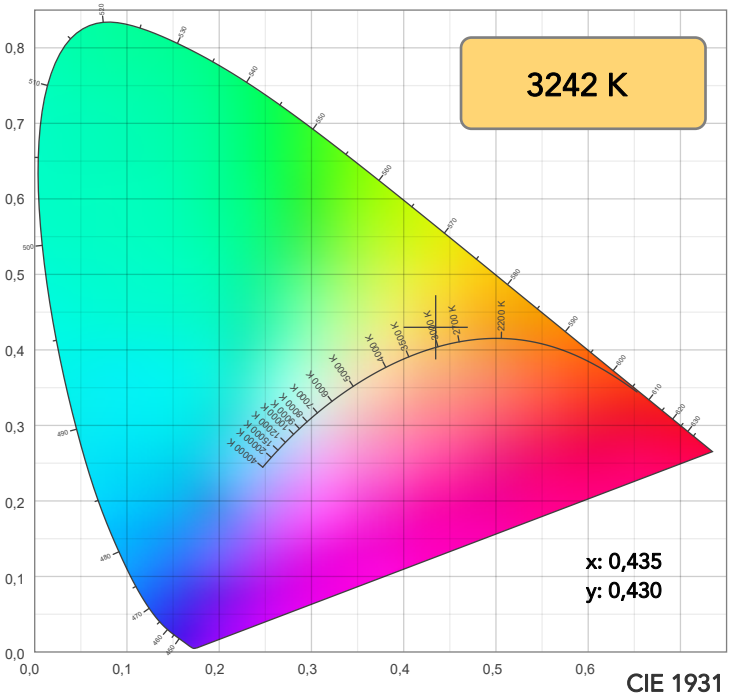


Beam angle 50%: 10,9°
Field angle 10%: 14°
Cut off angle 2.5%: 15,1°

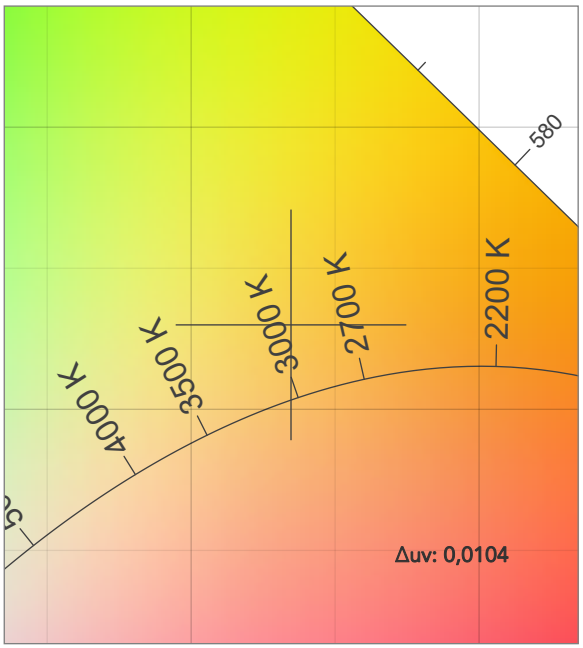
Spectra



COLOR DETAILS

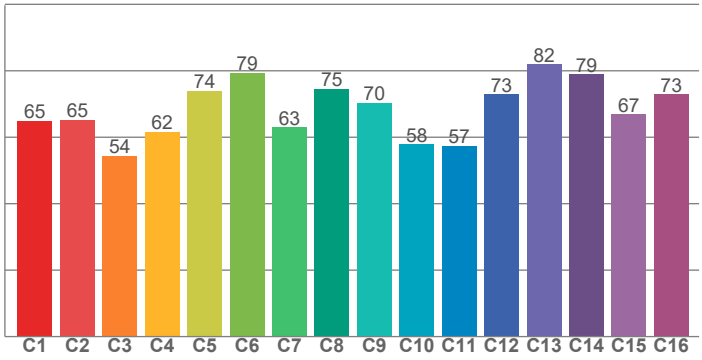


CIE 1931

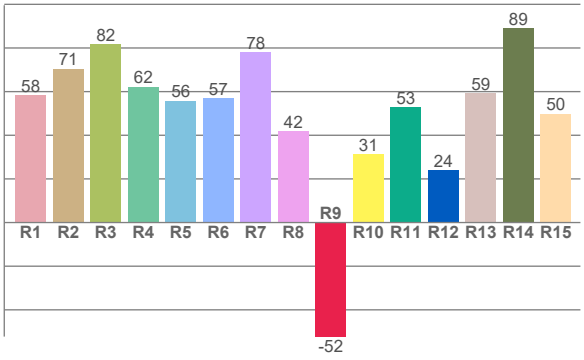


CIE 1931 ZOOM

TM30: 67,8



CRI: 63,2 (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
58,3	70,5	81,6	62,3	55,8	56,9	78,0	41,8	-52,3	31,3	52,8	23,9	59,3	89,2	49,8

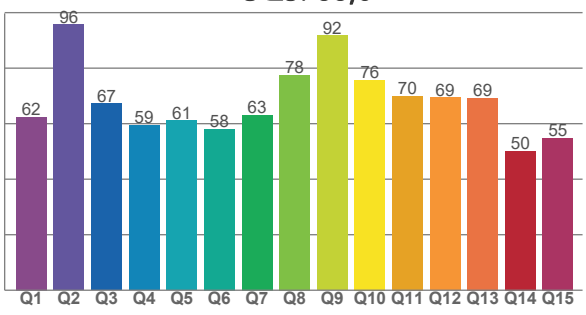
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64,9	65,2	54,4	61,6	74,0	79,5	63,0	74,6	70,4	57,8	57,5	72,8	81,9	78,9	66,9	72,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
62,5	95,6	67,2	59,4	61,1	58,0	63,2	77,6	91,7	75,7	70,0	69,5	69,2	50,1	54,9

CQS: 66,0



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3242 K	63,2	-52,3	67,8	91,6	66,0	35	0,435	0,430	0,0104

TM30 DETAILS

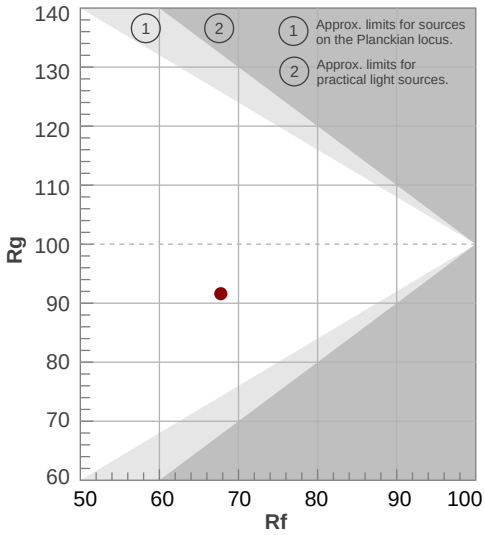
Rf 67,8

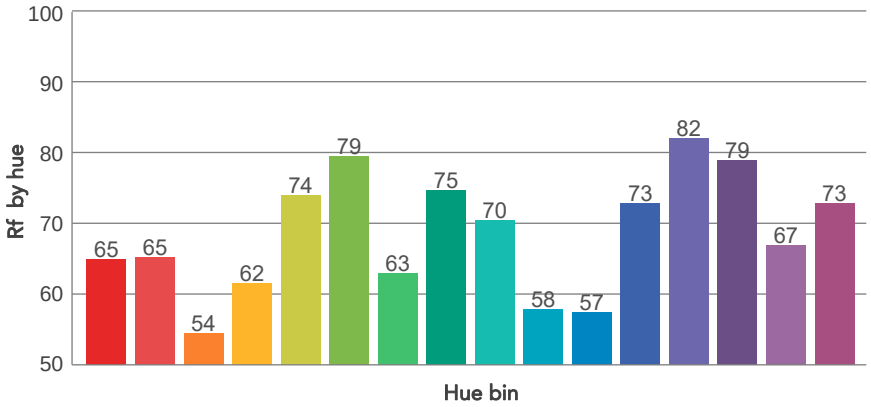
Fidelity index Rf

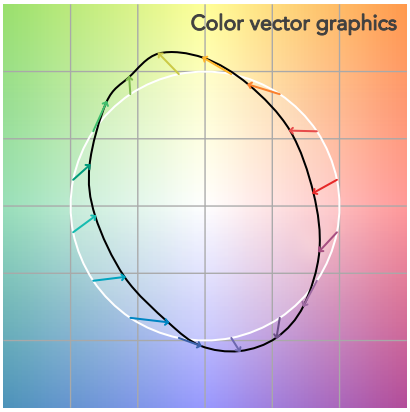
Rg 91,6

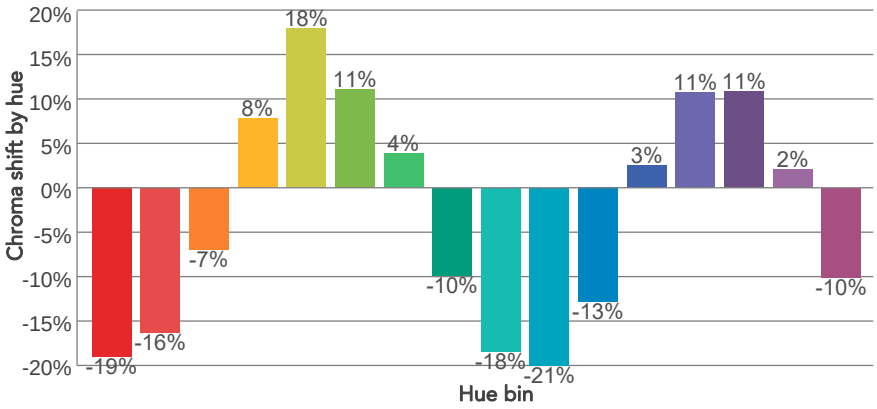
Gammut index

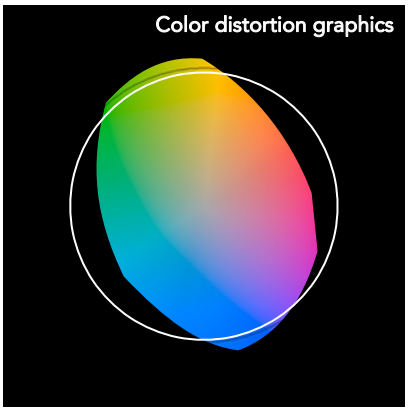
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	65	-19%	-6%
2	65	-16%	12%
3	54	-7%	23%
4	62	8%	23%
5	74	18%	12%
6	79	11%	-6%
7	63	4%	-23%
8	75	-10%	-13%
9	70	-18%	-9%
10	58	-21%	11%
11	57	-13%	25%
12	73	3%	17%
13	82	11%	4%
14	79	11%	-10%
15	67	2%	-21%
16	73	-10%	-16%

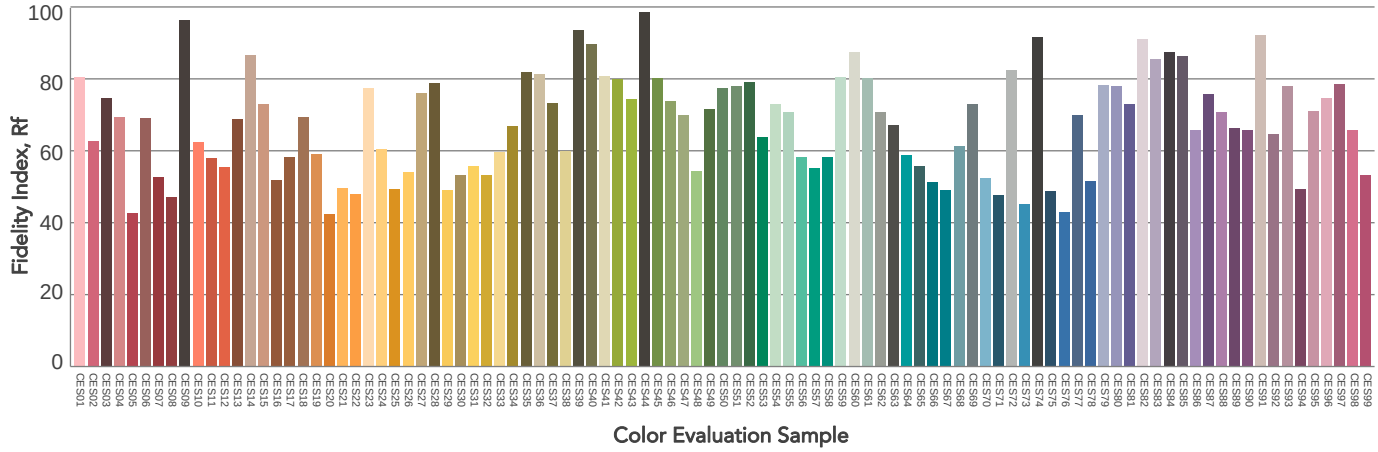












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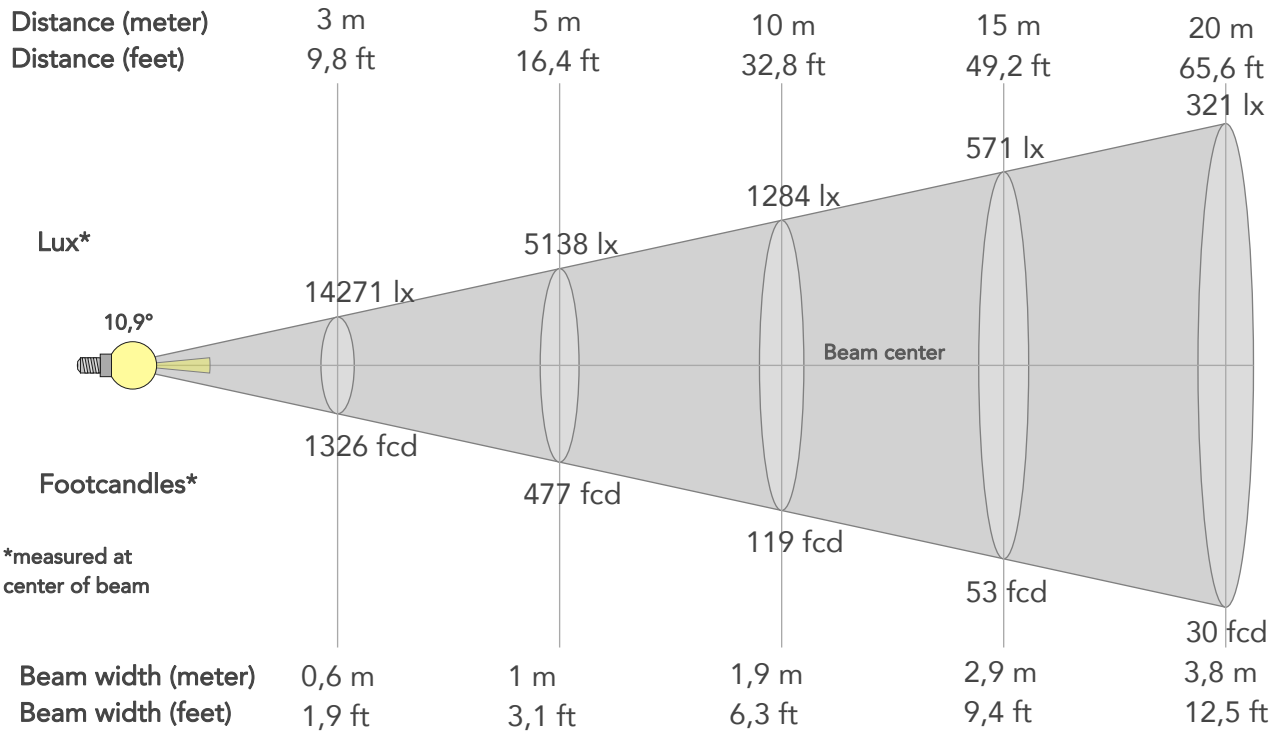
BEAM DETAILS

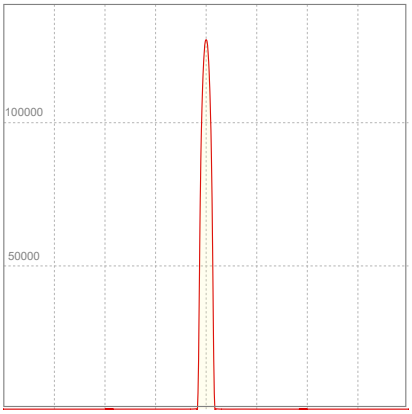
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,9°	14°	15,1°	98,6%	98,3%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	128439lx	32110lx	14271lx	8027lx	5138lx	2283lx	1284lx	571lx	321lx	206lx	143lx	80lx	51lx
Footcand.	11932fcd	2983fcd	1326fcd	746fcd	477fcd	212fcd	119fcd	53fcd	30fcd	19fcd	13fcd	7fcd	5fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,4m	1,9m	2,9m	3,8m	4,8m	5,7m	7,7m	9,6m
Beam wid.	0,6ft	1,3ft	1,9ft	2,5ft	3,1ft	4,7ft	6,3ft	9,4ft	12,5ft	15,7ft	18,8ft	25,1ft	31,4ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	1,31A	280,3W	0,95	13lm/W

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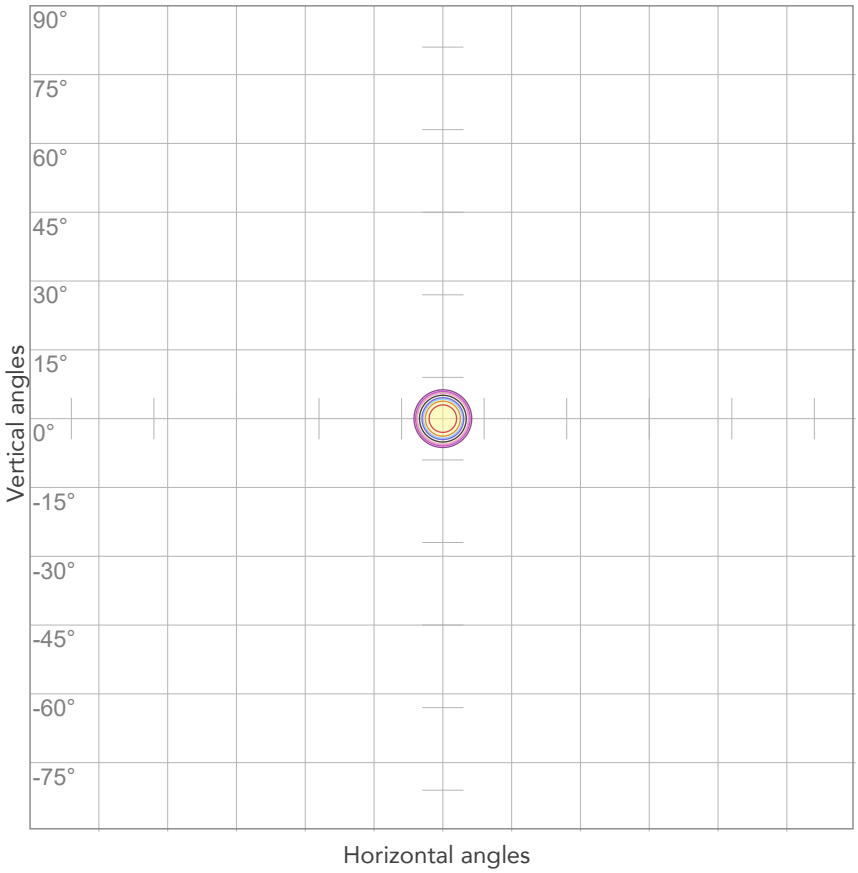
ISO DIAGRAMS

ISO CANDELA DIAGRAM



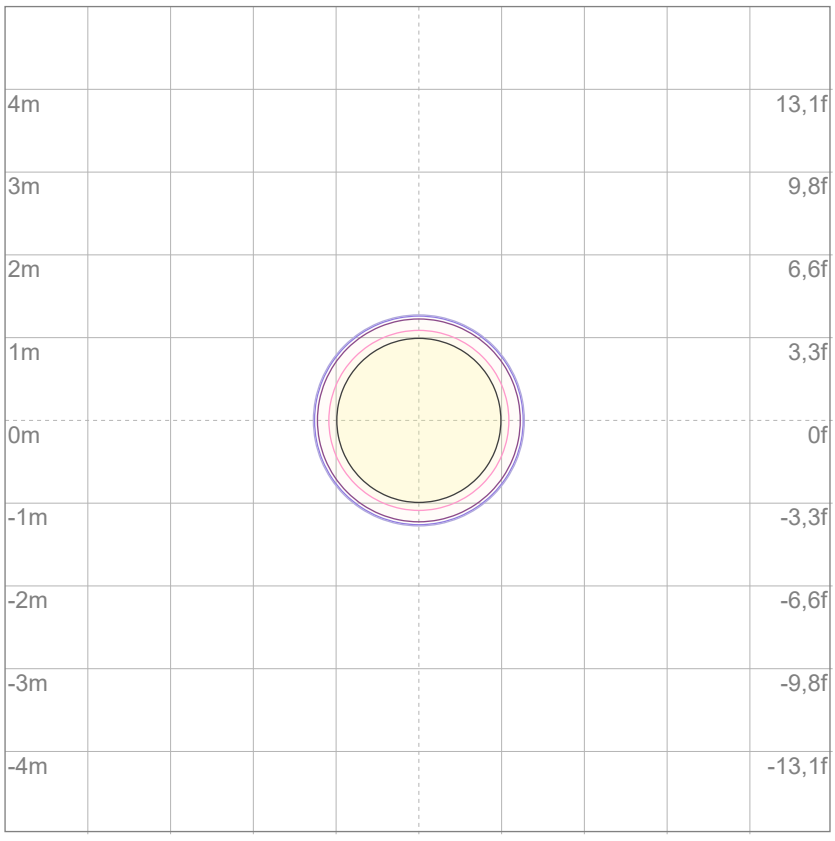
10%	12844 cd
20%	25688 cd
30%	38532 cd
40%	51376 cd
50%	64219 cd
60%	77063 cd
70%	89907 cd
80%	102751 cd

Conditions:

Number of c-planes: 2

Candela at center: 128439 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	38,5 lx
5%	64,2 lx
10%	128 lx
30%	385 lx
50%	642 lx

Conditions:

Number of c-planes: 2

Lux at center: 1284 lx

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

Total lumen output:

2681 lm

Peak candela output:

767233 cd

Light quality:

CRI: 63,3

Color temperature:

3218 K

PRODUCT NAME:

JETHYB200

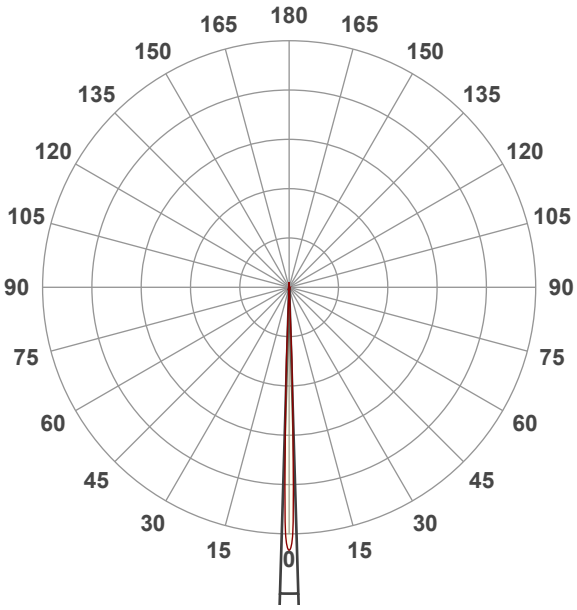
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
CTO 3200k

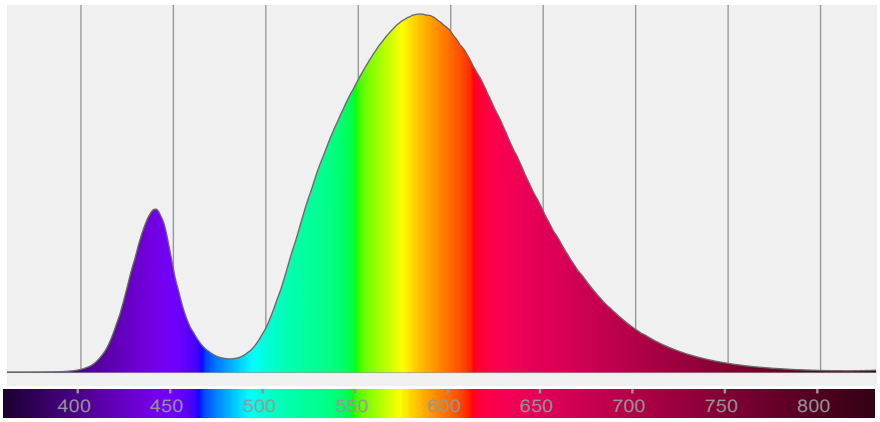
Operator:
Salvatore Giglio

Date and time:
04/01/2024 15:35:16

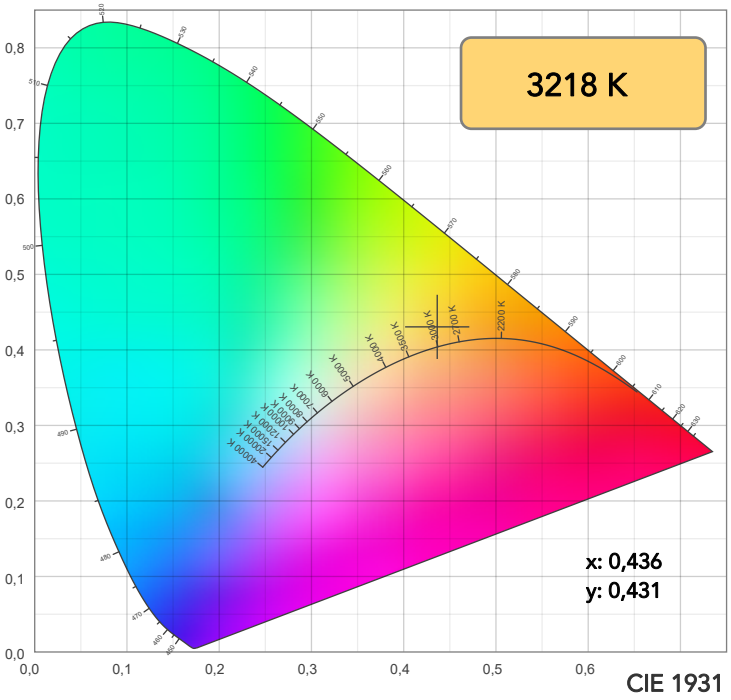


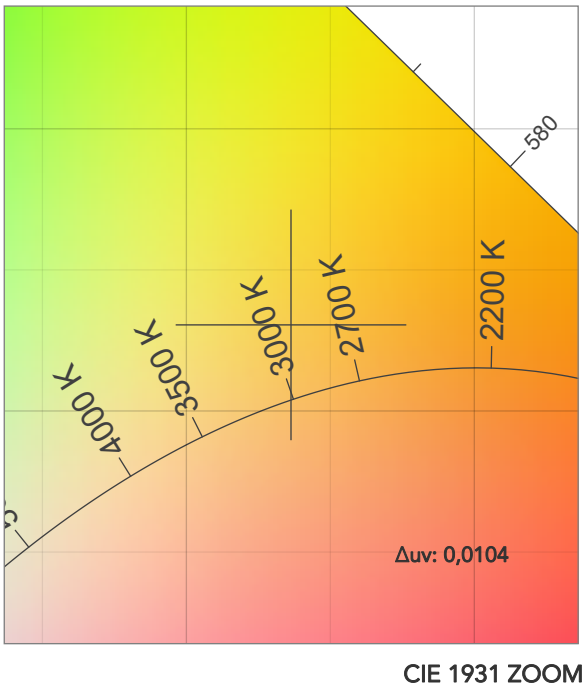
Beam angle 50%: 3,4°
Field angle 10%: 5,3°
Cut off angle 2.5%: 5,7°

Spectra

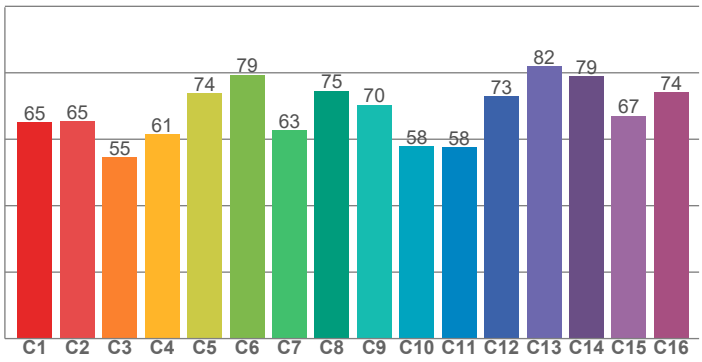


COLOR DETAILS

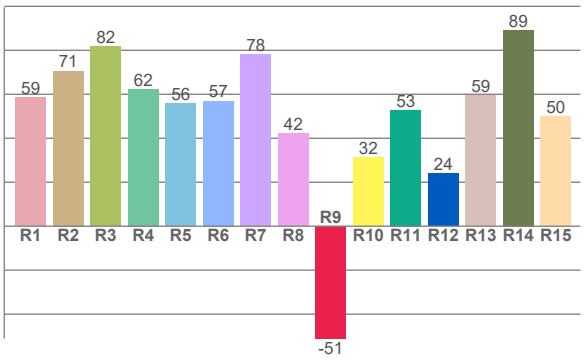




TM30: 67,8



CRI: 63,3 (R1-R8)



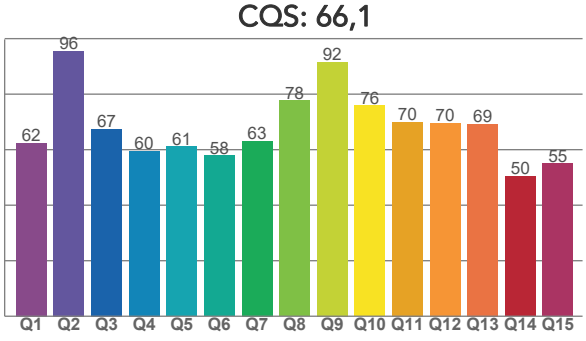
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
58,5	70,7	81,7	62,4	55,9	57,0	78,1	42,1	-51,1	31,5	52,9	23,9	59,4	89,1	50,1

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
65,1	65,3	54,6	61,5	73,9	79,4	62,7	74,5	70,3	57,9	57,6	72,9	82,0	79,0	67,0	74,1

CQS: 66,1



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
62,4	95,6	67,4	59,5	61,1	57,9	63,2	77,6	91,7	75,8	70,0	69,6	69,3	50,4	55,0

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
3218 K	63,3	-51,1	67,8	91,6	66,1	35	0,436	0,431	0,0104

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TM30 DETAILS

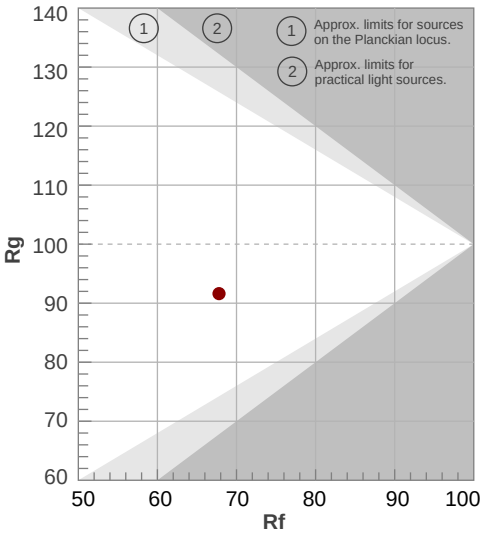
Rf 67,8

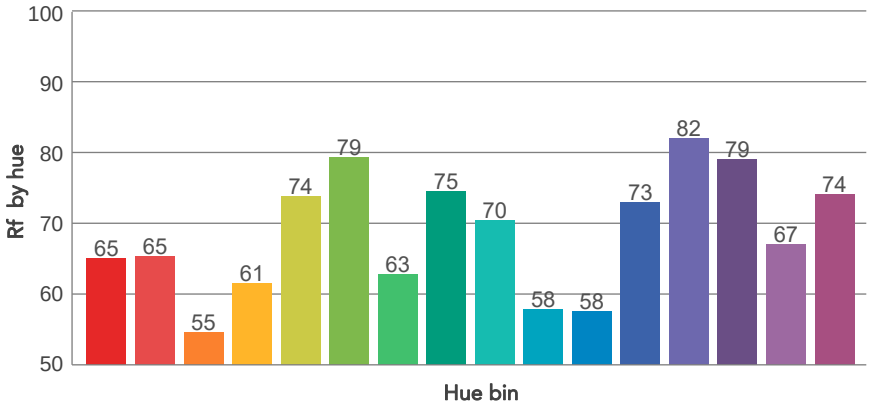
Fidelity index Rf

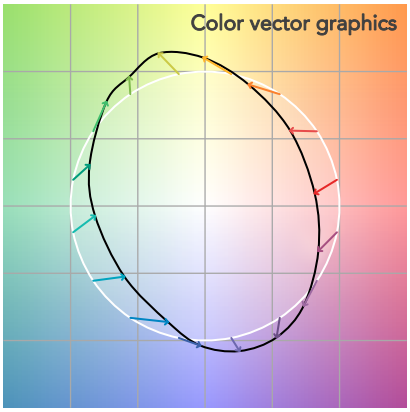
Rg 91,6

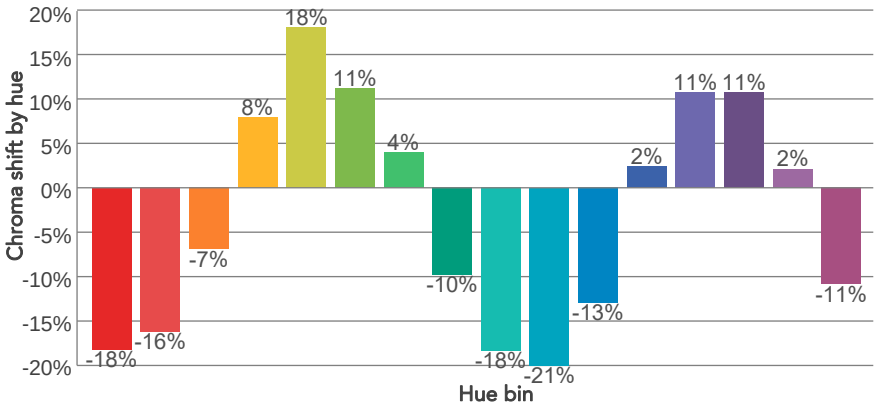
Gammut index

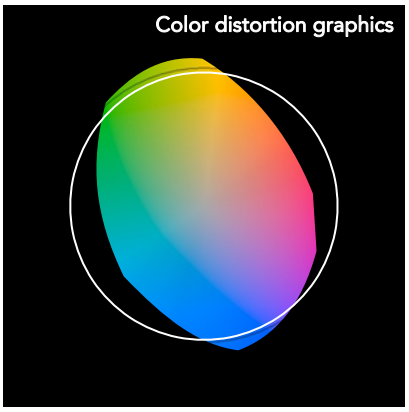
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	65	-18%	-7%
2	65	-16%	11%
3	55	-7%	23%
4	61	8%	23%
5	74	18%	12%
6	79	11%	-6%
7	63	4%	-24%
8	75	-10%	-13%
9	70	-18%	-9%
10	58	-21%	10%
11	58	-13%	25%
12	73	2%	17%
13	82	11%	4%
14	79	11%	-10%
15	67	2%	-21%
16	74	-11%	-16%

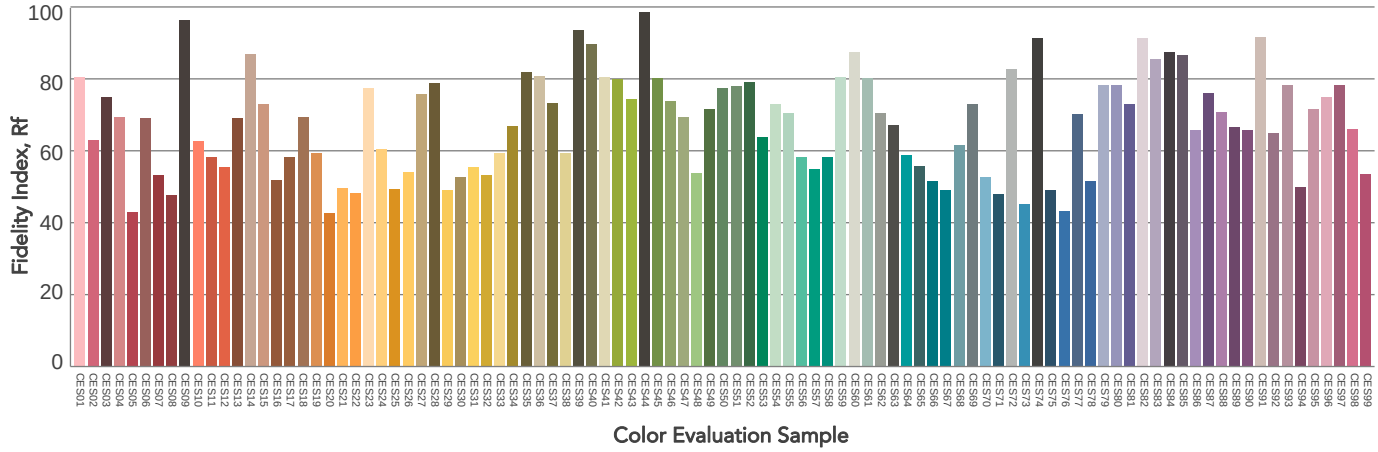












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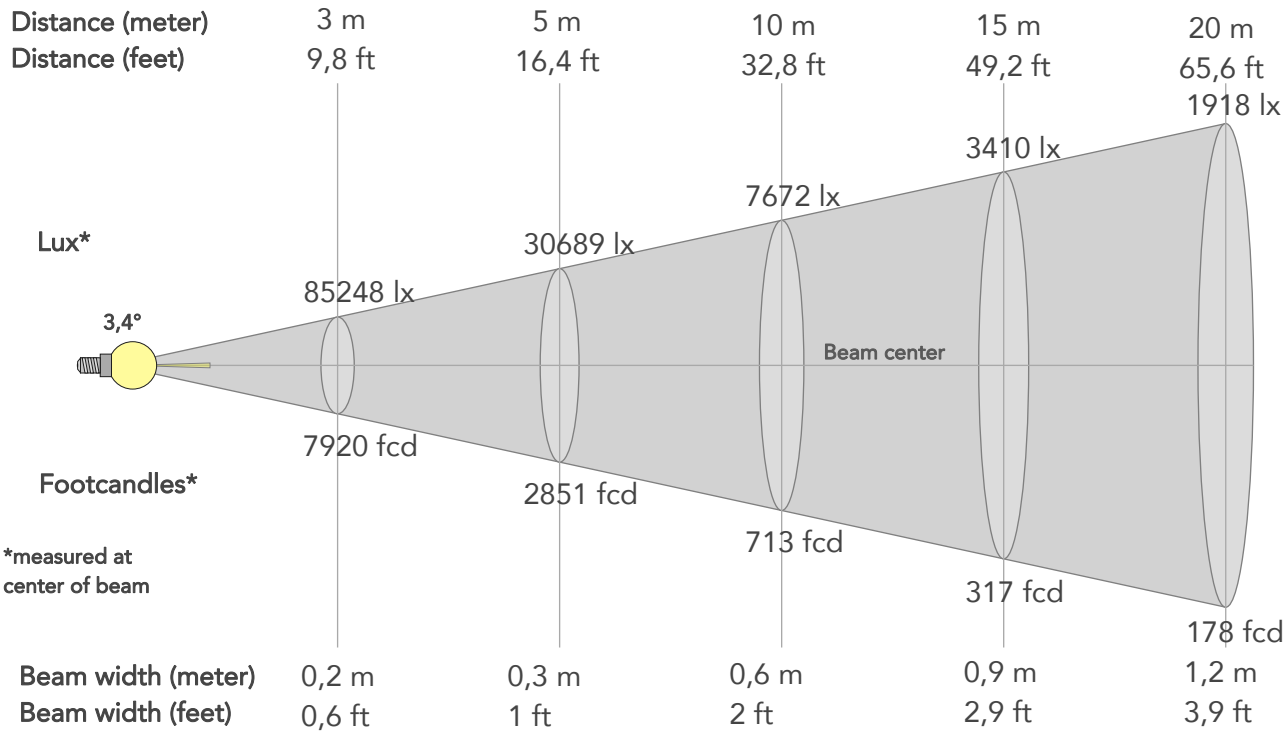
BEAM DETAILS

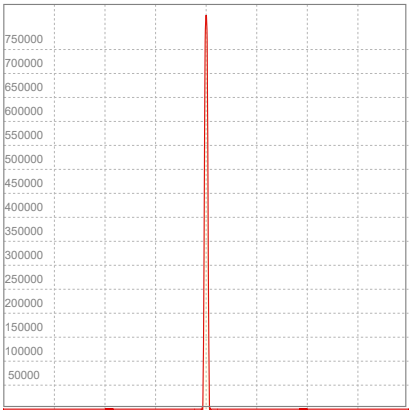
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,4°	5,3°	5,7°	98,4%	97,9%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	767233lx	191808lx	85248lx	47952lx	30689lx	13640lx	7672lx	3410lx	1918lx	1228lx	852lx	480lx	307lx
Footcand.	71278fcd	17820fcd	7920fcd	4455fcd	2851fcd	1267fcd	713fcd	317fcd	178fcd	114fcd	79fcd	45fcd	29fcd
Beam wid.	0,1m	0,1m	0,2m	0,2m	0,3m	0,4m	0,6m	0,9m	1,2m	1,5m	1,8m	2,4m	3m
Beam wid.	0,2ft	0,4ft	0,6ft	0,8ft	1ft	1,5ft	2ft	2,9ft	3,9ft	4,9ft	5,9ft	7,8ft	9,8ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	1,32A	283,5W	0,95	9lm/W

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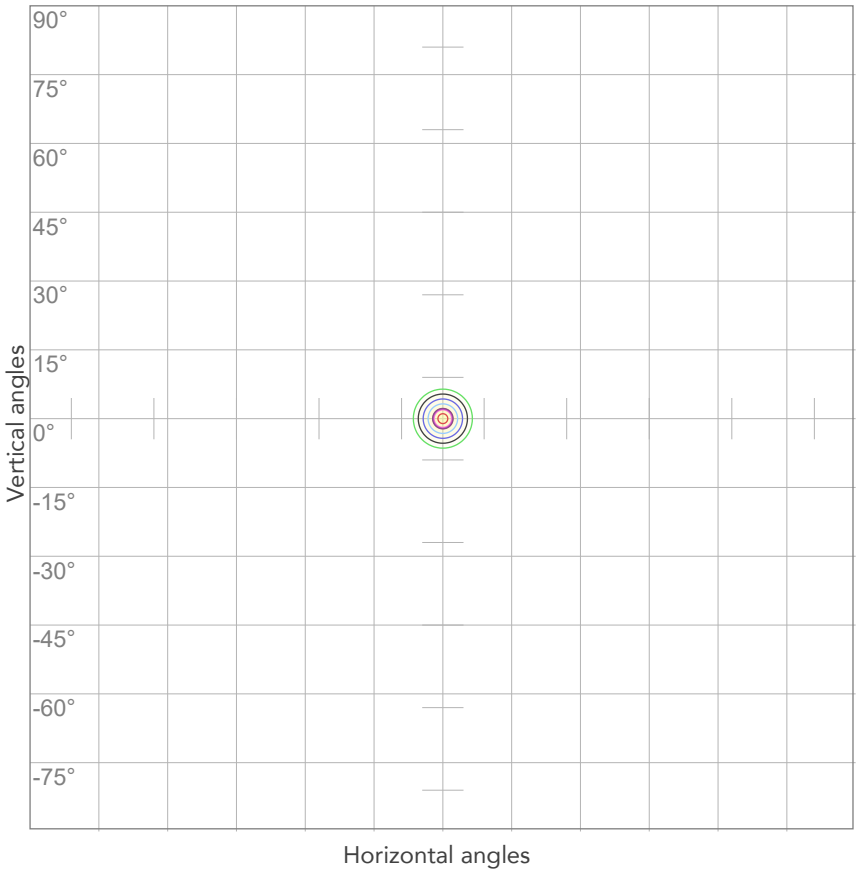
ISO DIAGRAMS

ISO CANDELA DIAGRAM



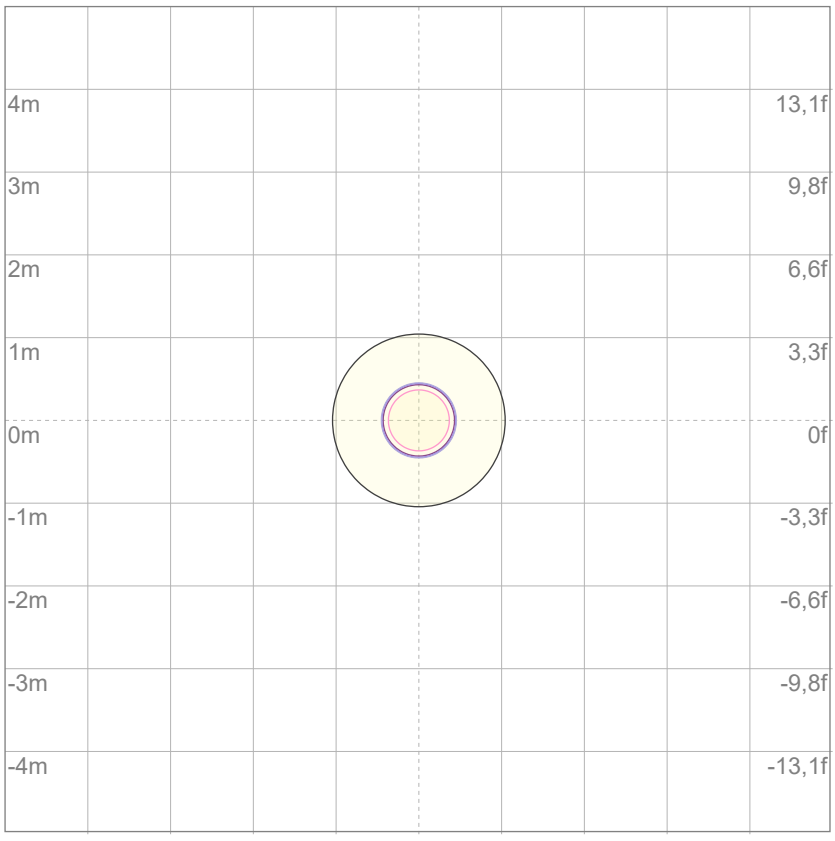
10%	76723 cd
20%	153447 cd
30%	230170 cd
40%	306893 cd
50%	383617 cd
60%	460340 cd
70%	537063 cd
80%	613786 cd

Conditions:

Number of c-planes: 2

Candela at center: 767233 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	230 lx
5%	384 lx
10%	767 lx
30%	2302 lx
50%	3836 lx

Conditions:

Number of c-planes: 2

Lux at center: 7672 lx

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

Total lumen output:

4859 lm

Peak candela output:

23265 cd

Light quality:

CRI: 84,6

Color temperature:

6674 K

PRODUCT NAME:

JETHYB200

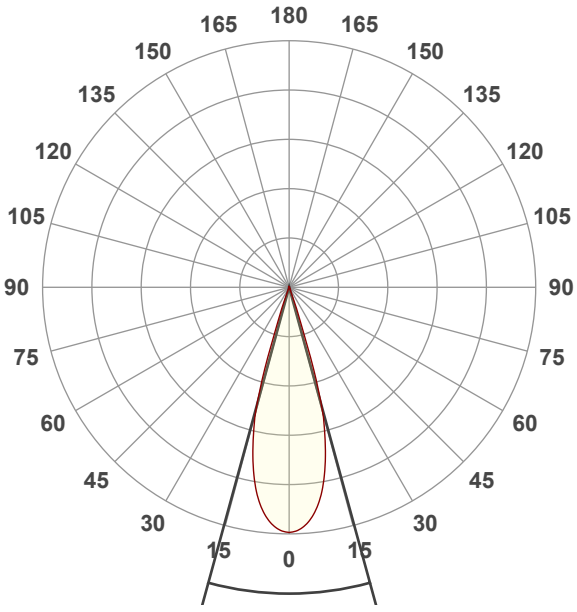
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
6000K

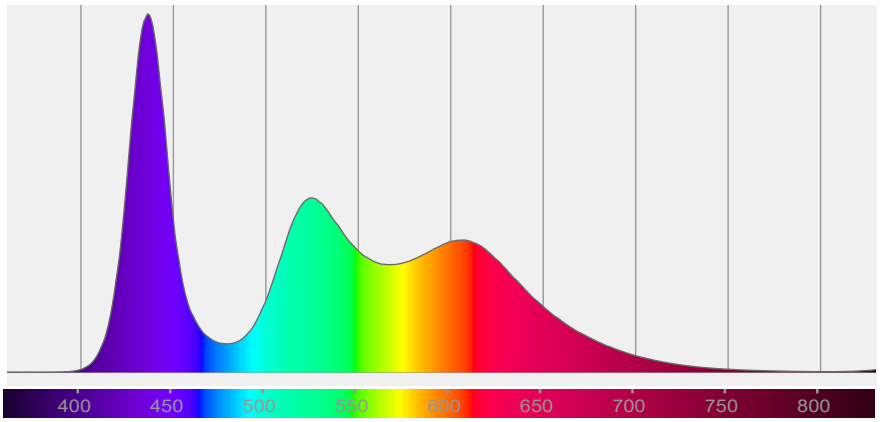
Operator:
Salvatore Giglio

Date and time:
04/01/2024 17:14:14

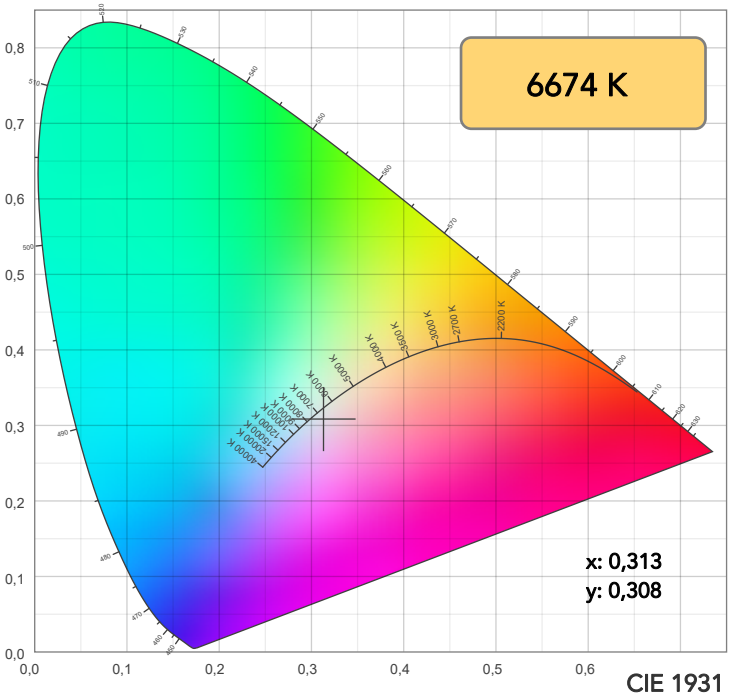


Beam angle 50%: 30,6°
Field angle 10%: 37,9°
Cut off angle 2.5%: 41,1°

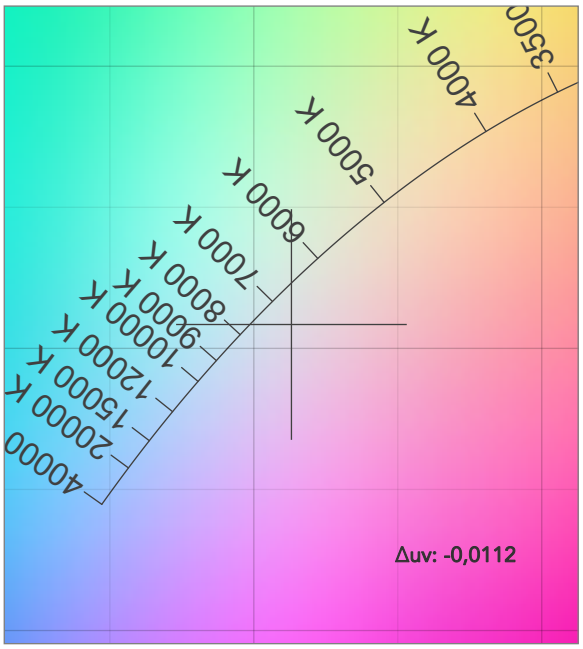
Spectra



COLOR DETAILS

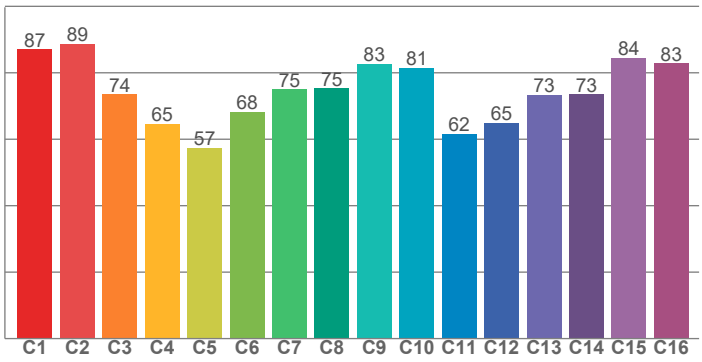


CIE 1931

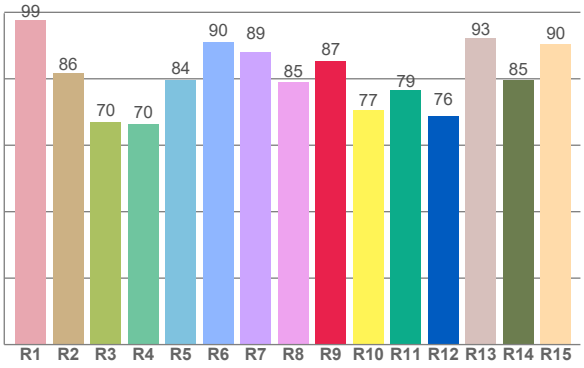


CIE 1931 ZOOM

TM30: 74,1



CRI: 84,6 (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
99,1	86,3	70,2	70,4	84,2	90,6	89,1	85,4	87,3	77,2	79	76,2	93,3	85,1	90,0

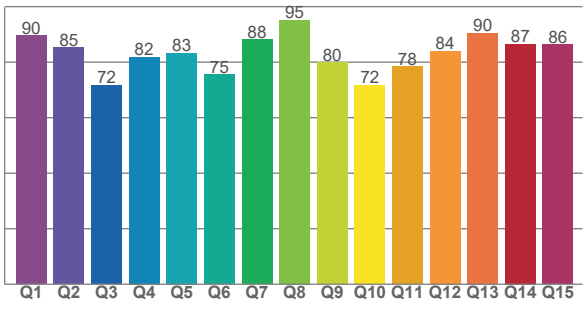
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,0	88,8	73,5	64,5	57,5	68,2	75,0	75,3	82,7	81,5	61,6	65,0	73,3	73,5	84,4	82,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,6	85,2	71,7	81,9	83,3	75,5	88,2	95,1	79,9	71,7	78,4	84,1	90,4	86,5	86,3

CQS: 81,9



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
6674 K	84,6	67,1	74,1	110,3	81,9	58	0,313	0,308	-0,0112

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TM30 DETAILS

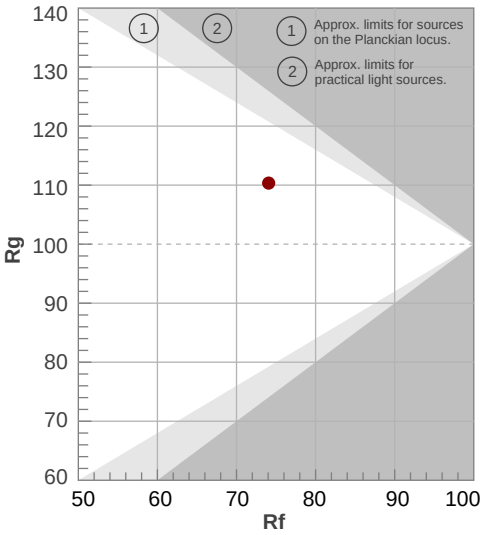
Rf 74,1

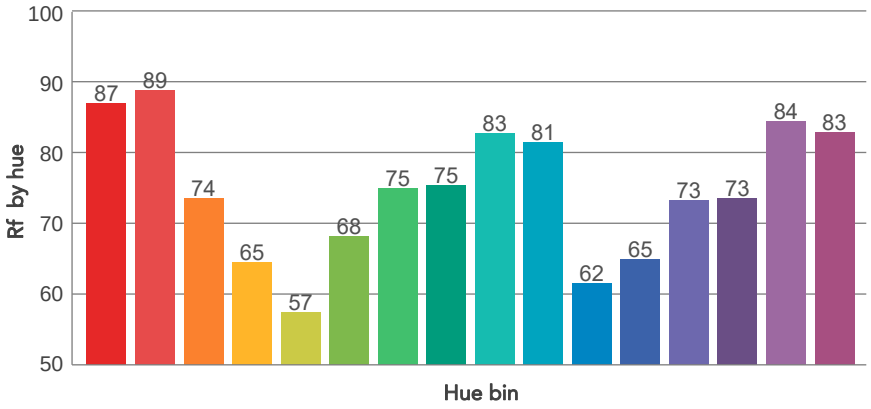
Fidelity index Rf

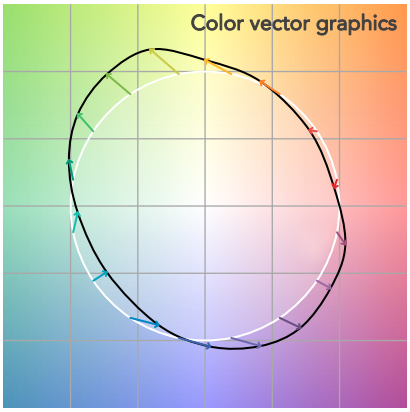
Rg 110,3

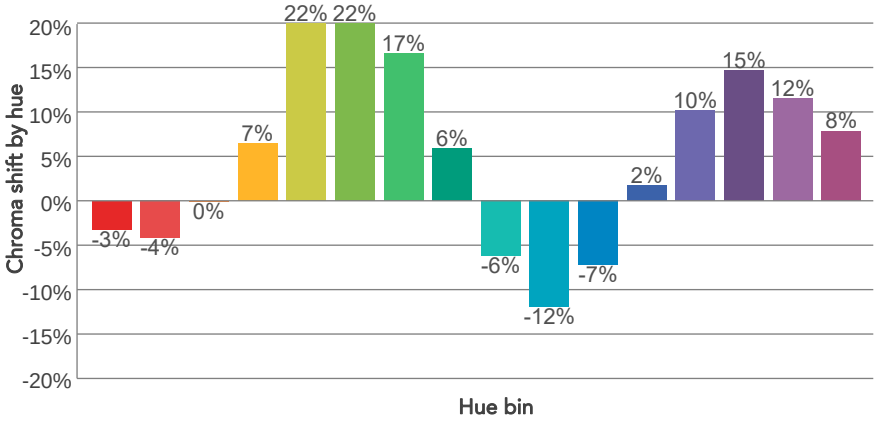
Gammut index

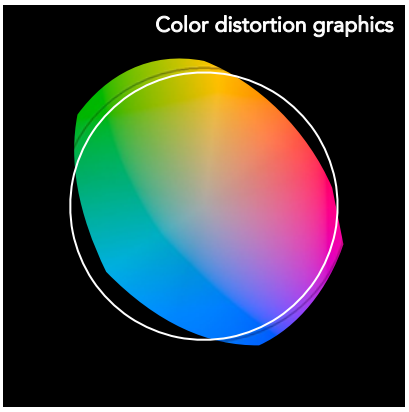
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	87	-3%	-5%
2	89	-4%	4%
3	74	0%	17%
4	65	7%	21%
5	57	22%	17%
6	68	22%	6%
7	75	17%	-4%
8	75	6%	-14%
9	83	-6%	-14%
10	81	-12%	0%
11	62	-7%	20%
12	65	2%	24%
13	73	10%	20%
14	73	15%	9%
15	84	12%	1%
16	83	8%	-8%

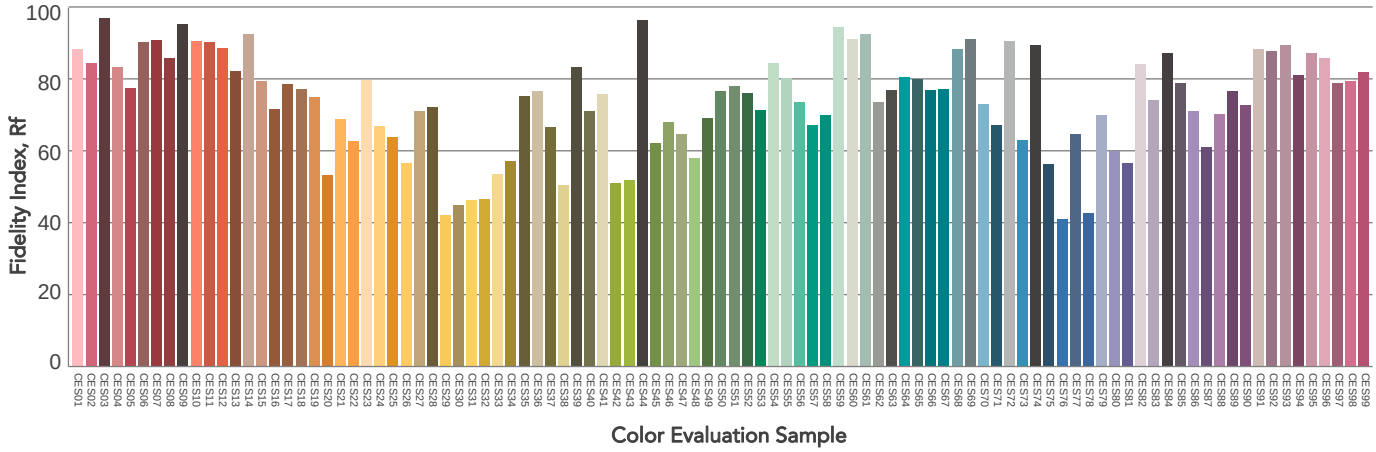












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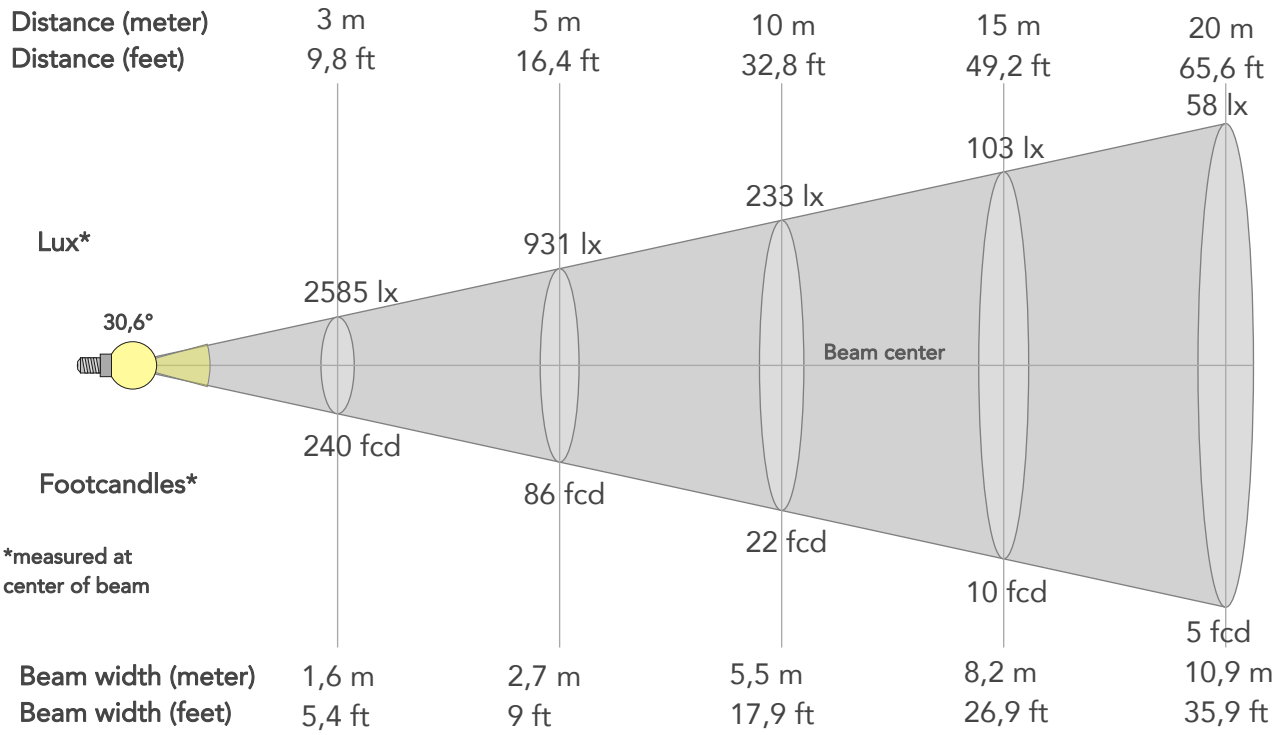
BEAM DETAILS

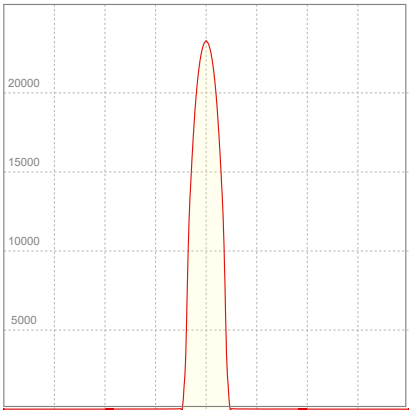
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,6°	37,9°	41,1°	99,4%	99,2%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	23265lx	5816lx	2585lx	1454lx	931lx	414lx	233lx	103lx	58lx	37lx	26lx	15lx	9lx
Footcand.	2161fcd	540fcd	240fcd	135fcd	86fcd	38fcd	22fcd	10fcd	5fcd	3fcd	2fcd	1fcd	1fcd
Beam wid.	0,5m	1,1m	1,6m	2,2m	2,7m	4,1m	5,5m	8,2m	10,9m	13,7m	16,4m	21,9m	27,3m
Beam wid.	1,8ft	3,6ft	5,4ft	7,2ft	9ft	13,5ft	17,9ft	26,9ft	35,9ft	44,8ft	53,8ft	71,7ft	89,7ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	1,31A	280,6W	0,95	17lm/W

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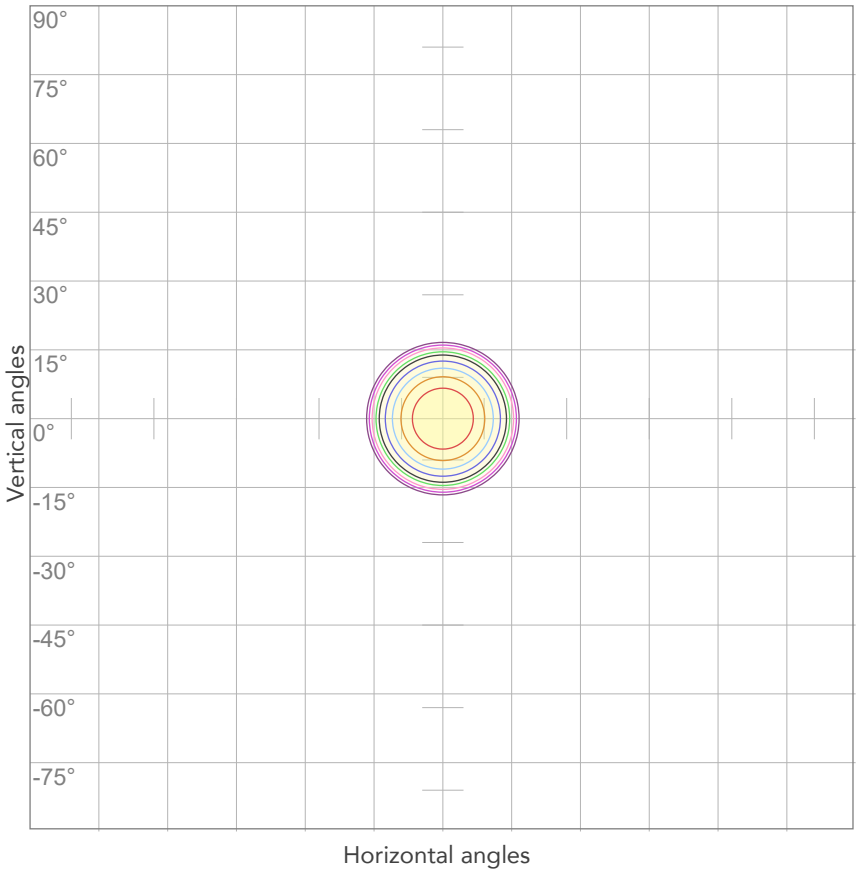
ISO DIAGRAMS

ISO CANDELA DIAGRAM



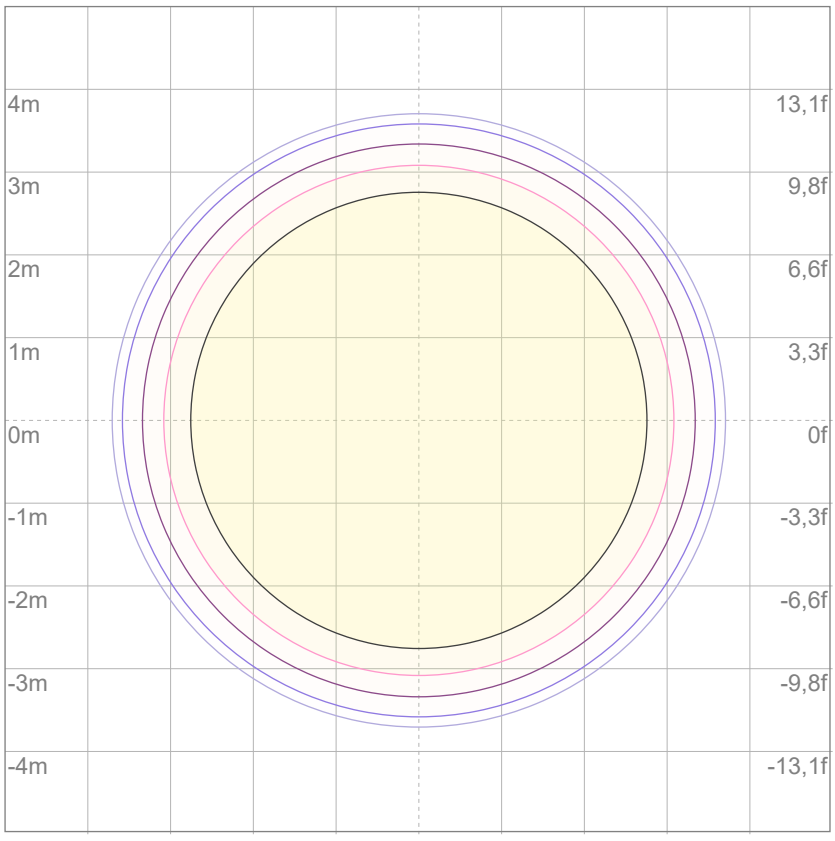
10%	2327 cd
20%	4653 cd
30%	6980 cd
40%	9306 cd
50%	11633 cd
60%	13959 cd
70%	16286 cd
80%	18612 cd

Conditions:

Number of c-planes: 2

Candela at center: 23265 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	6,98 lx
5%	11,6 lx
10%	23,3 lx
30%	69,8 lx
50%	116 lx

Conditions:

Number of c-planes: 2

Lux at center: 233 lx

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

Total lumen output:

4814 lm

Peak candela output:

170773 cd

Light quality:

CRI: 84,6

Color temperature:

6685 K

PRODUCT NAME:

JETHYB200

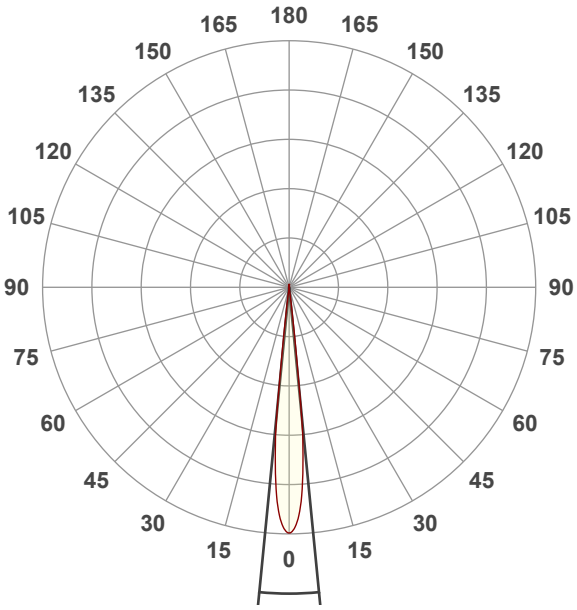
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
6000K

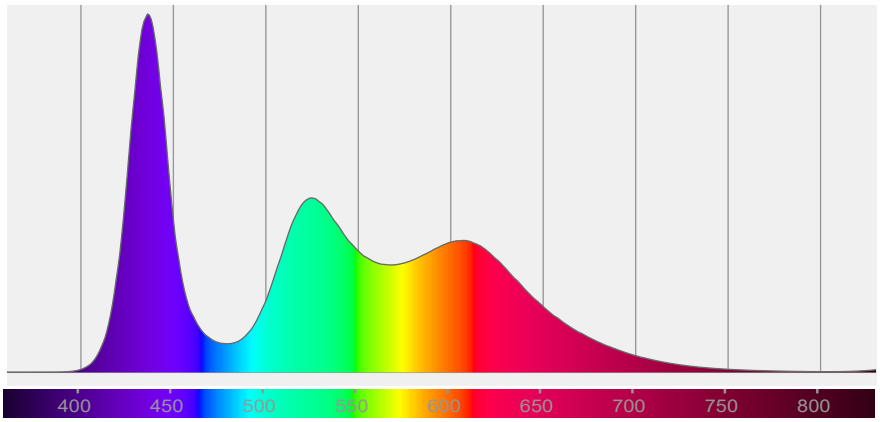
Operator:
Salvatore Giglio

Date and time:
04/01/2024 17:32:51

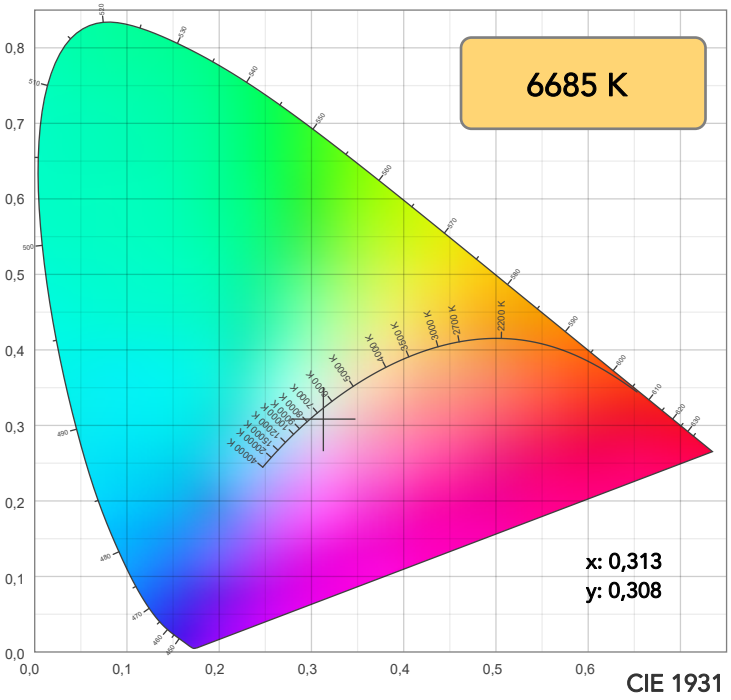


Beam angle 50%: 11,2°
Field angle 10%: 13,9°
Cut off angle 2.5%: 14,7°

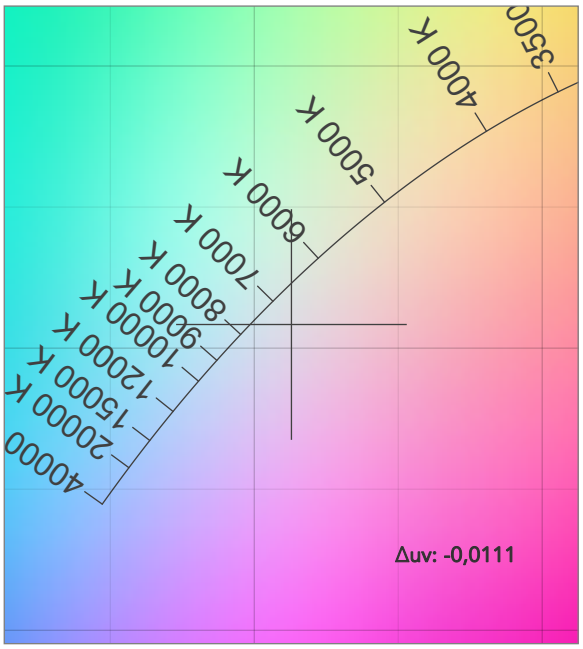
Spectra



COLOR DETAILS

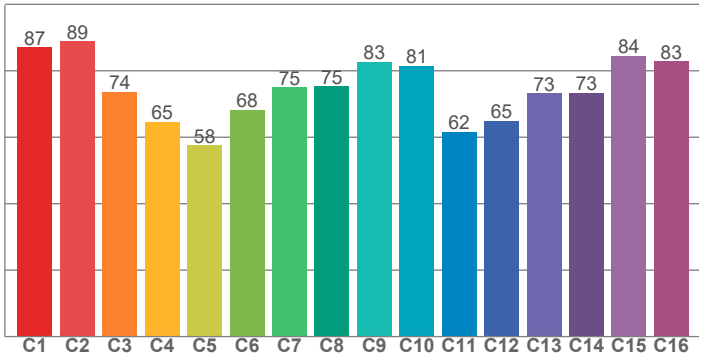


CIE 1931

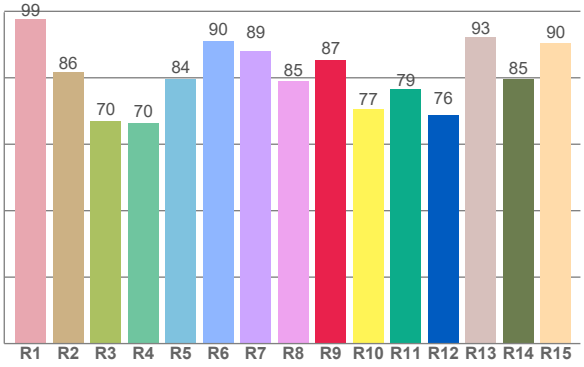


CIE 1931 ZOOM

TM30: 74,1



CRI: 84,6 (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
99,1	86,3	70,2	70,4	84,2	90,6	89,1	85,4	87,3	77,2	79	76,2	93,3	85,1	90,0

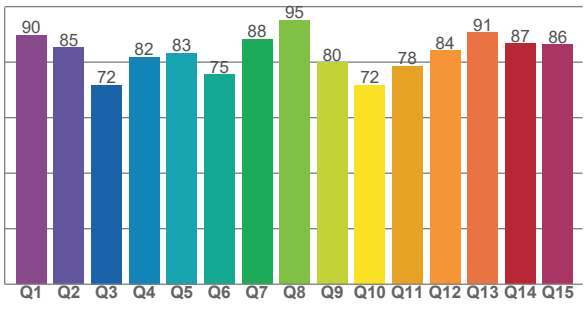
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,1	88,9	73,7	64,6	57,5	68,2	75,0	75,4	82,7	81,5	61,6	65,0	73,3	73,4	84,4	82,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,7	85,3	71,7	81,9	83,3	75,5	88,2	95,1	79,9	71,7	78,5	84,2	90,6	86,7	86,4

CQS: 82,0



COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6685 K	79,6	67,6	74,1	110,4	82,0	58	0,313	0,308	-0,0111

TM30 DETAILS

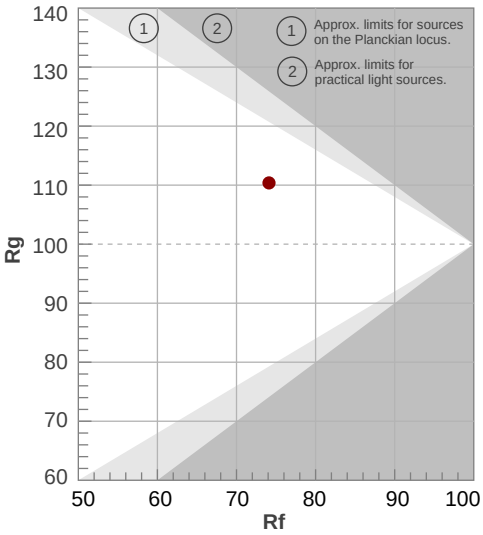
Rf 74,1

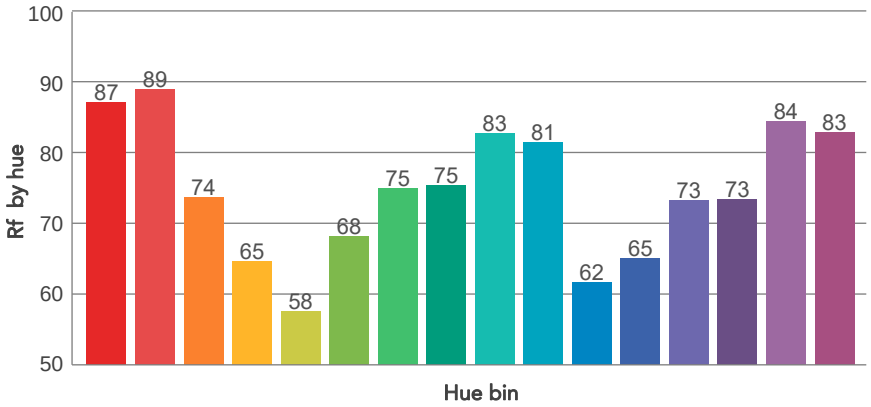
Fidelity index Rf

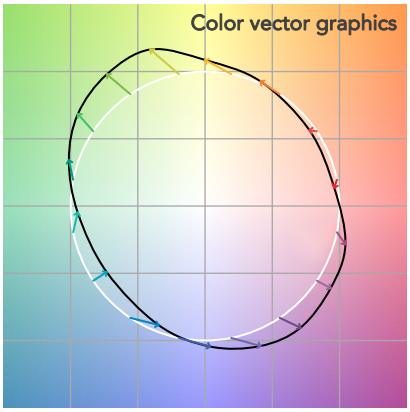
Rg 110,4

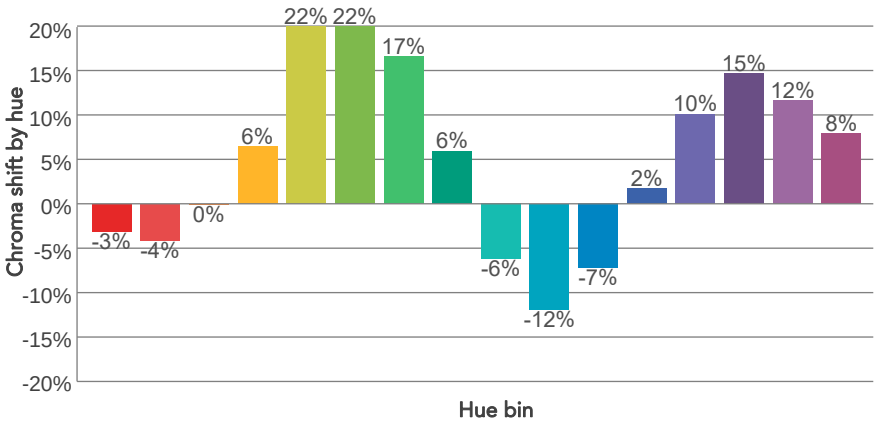
Gammut index

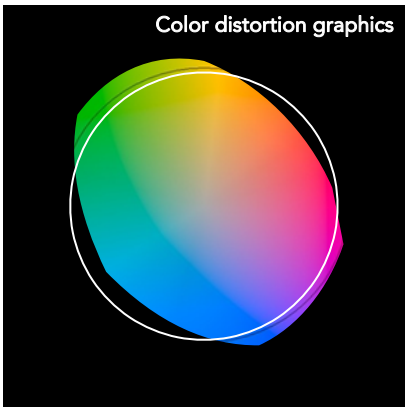
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	87	-3%	-5%
2	89	-4%	4%
3	74	0%	17%
4	65	6%	21%
5	58	22%	17%
6	68	22%	6%
7	75	17%	-4%
8	75	6%	-14%
9	83	-6%	-14%
10	81	-12%	0%
11	62	-7%	20%
12	65	2%	24%
13	73	10%	20%
14	73	15%	9%
15	84	12%	1%
16	83	8%	-8%

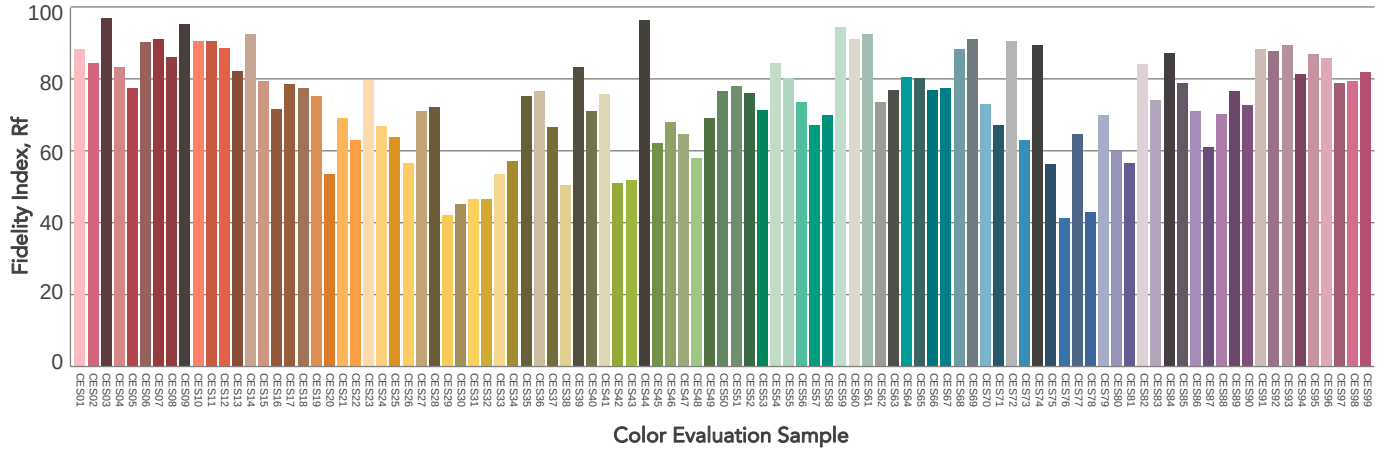












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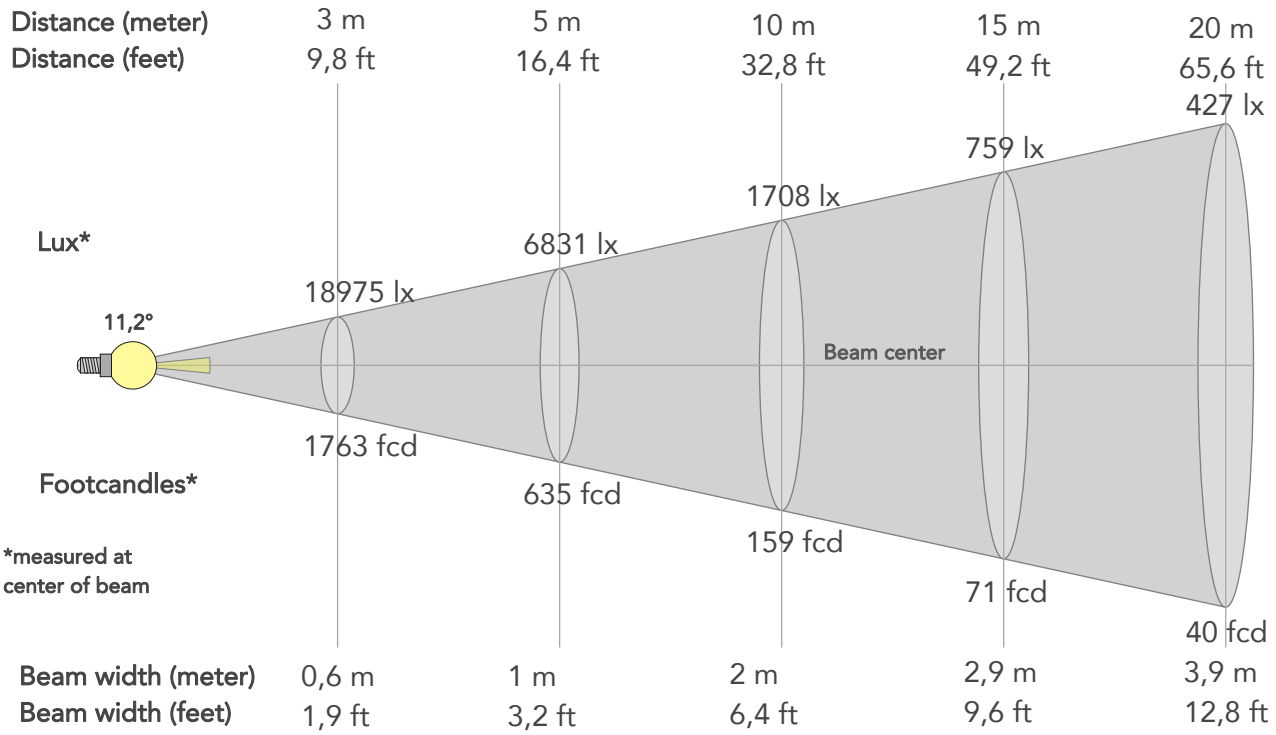
BEAM DETAILS

Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,2°	13,9°	14,7°	99,5%	99,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	170773lx	42693lx	18975lx	10673lx	6831lx	3036lx	1708lx	759lx	427lx	273lx	190lx	107lx	68lx
Footcand.	15865fcd	3966fcd	1763fcd	992fcd	635fcd	282fcd	159fcd	71fcd	40fcd	25fcd	18fcd	10fcd	6fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	2m	2,9m	3,9m	4,9m	5,9m	7,8m	9,8m
Beam wid.	0,6ft	1,3ft	1,9ft	2,6ft	3,2ft	4,8ft	6,4ft	9,6ft	12,8ft	16,1ft	19,3ft	25,7ft	32,1ft

LINEAR DISTRIBUTION DIAGRAM

ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
224V	1,31A	280,5W	0,95	17lm/W

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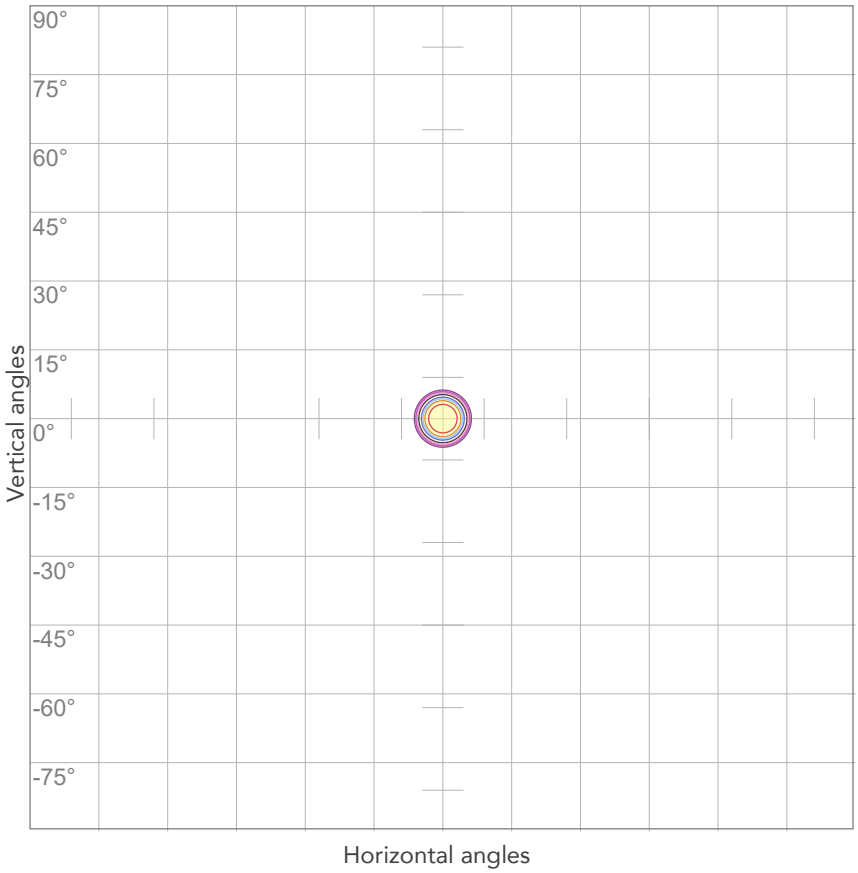
ISO DIAGRAMS

ISO CANDELA DIAGRAM



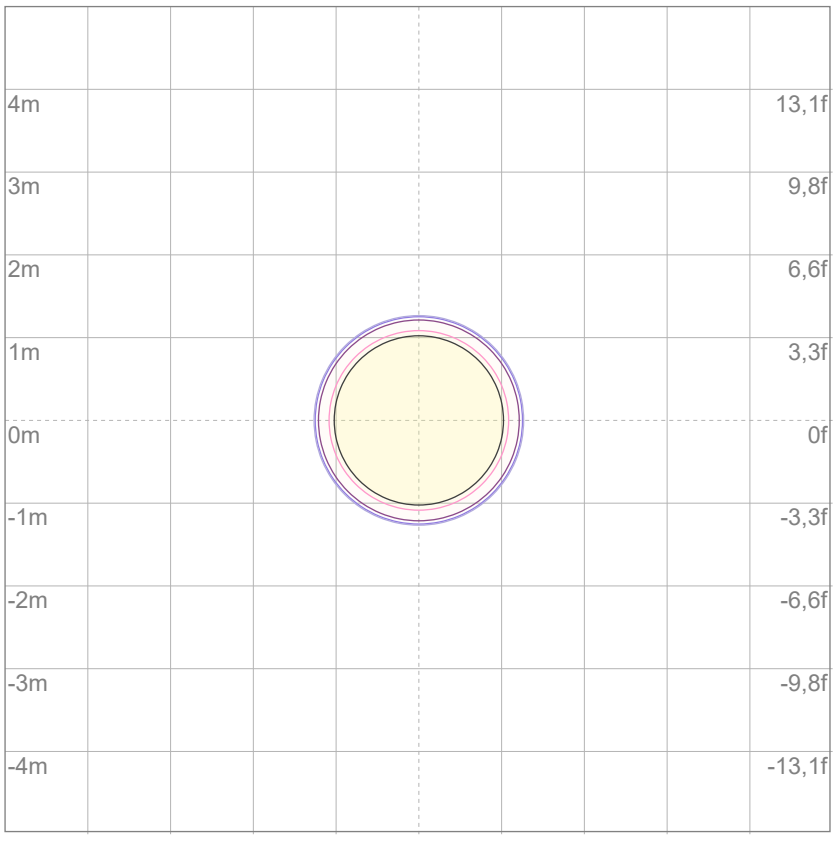
10%	17077 cd
20%	34155 cd
30%	51232 cd
40%	68309 cd
50%	85386 cd
60%	102464 cd
70%	119541 cd
80%	136618 cd

Conditions:

Number of c-planes: 2

Candela at center: 170773 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	51,2 lx
5%	85,4 lx
10%	171 lx
30%	512 lx
50%	854 lx

Conditions:

Number of c-planes: 2

Lux at center: 1708 lx

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

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Total lumen output:

5168 lm

Peak candela output:

1116597 cd

Light quality:

CRI: 84,6

Color temperature:

6699 K

PRODUCT NAME:

JETHYB200

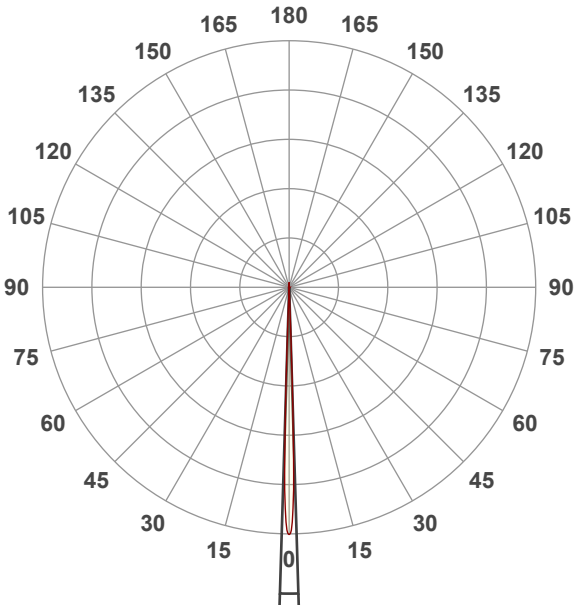
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
6000K

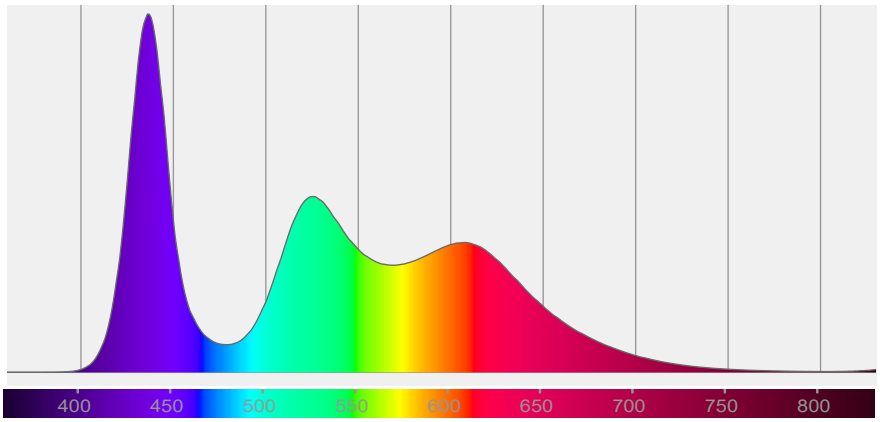
Operator:
Salvatore Giglio

Date and time:
04/01/2024 17:16:07

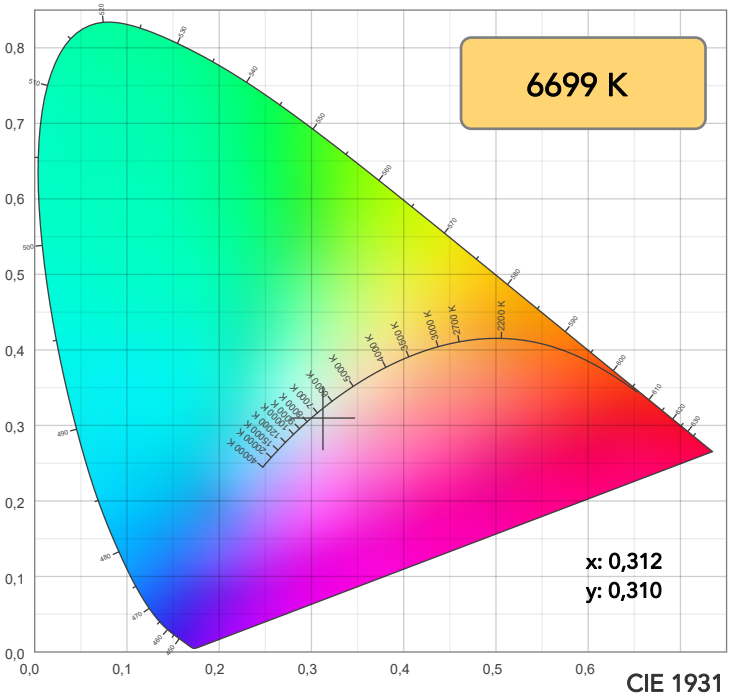


Beam angle 50%: 3,5°
Field angle 10%: 4,5°
Cut off angle 2.5%: 4,7°

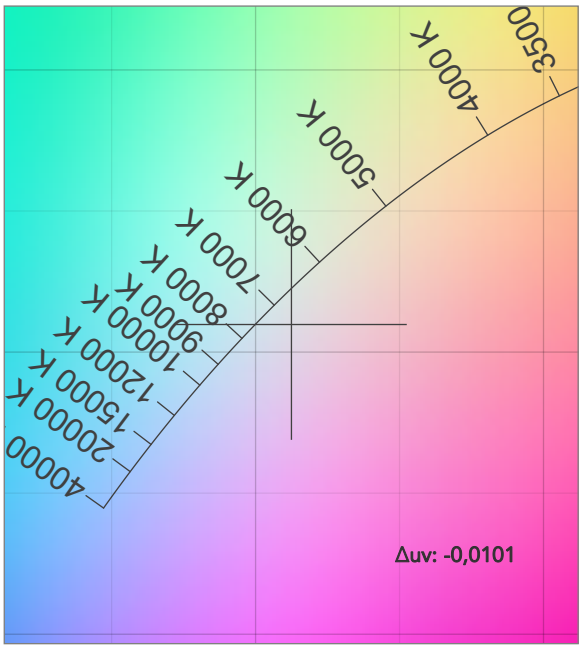
Spectra



COLOR DETAILS

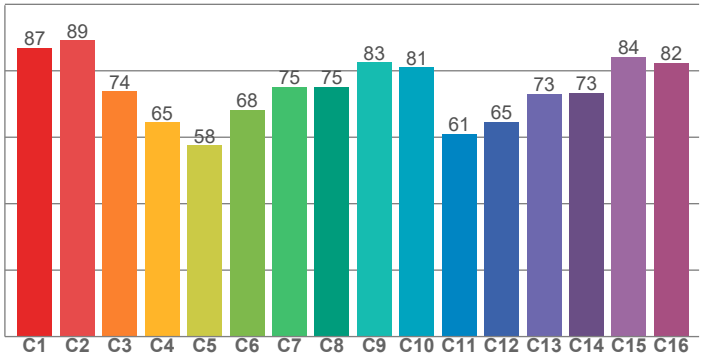


CIE 1931

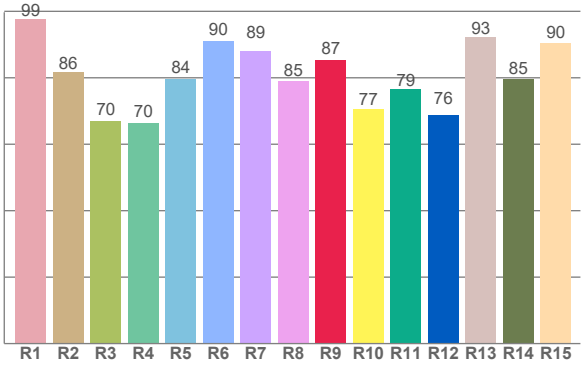


CIE 1931 ZOOM

TM30: 74,0



CRI: 84,6 (R1-R8)



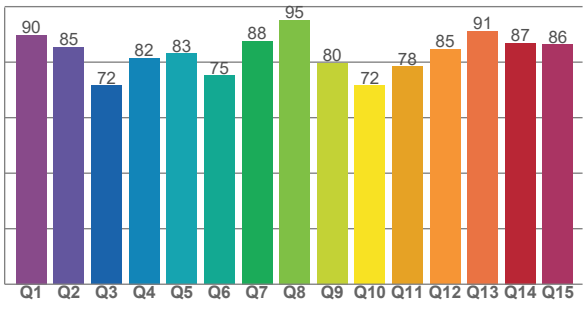
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99,1	86,3	70,2	70,4	84,2	90,6	89,1	85,4	87,3	77,2	79	76,2	93,3	85,1	90,0

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
86,9	89,1	73,8	64,5	57,6	68,3	75,1	75,1	82,5	81,1	61,1	64,7	73,1	73,4	84,2	82,4

CQS: 81,9



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,8	85,3	71,5	81,5	83,0	75,2	87,6	95,2	79,7	71,5	78,4	84,6	91,2	87,0	86,3

COLOR PARAMETERS

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
6699 K	79,1	67,4	74,0	110,1	81,9	58	0,312	0,310	-0,0101

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TM30 DETAILS

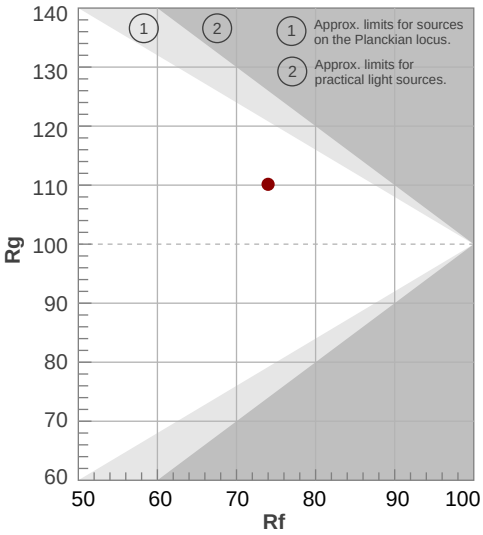
Rf 74,0

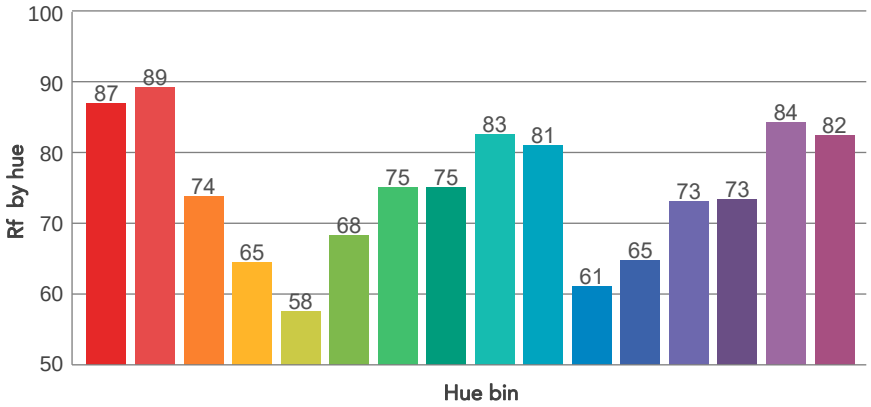
Fidelity index Rf

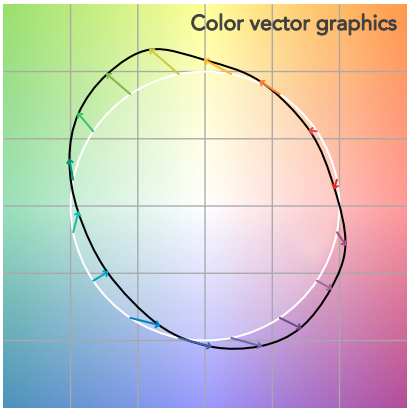
Rg 110,1

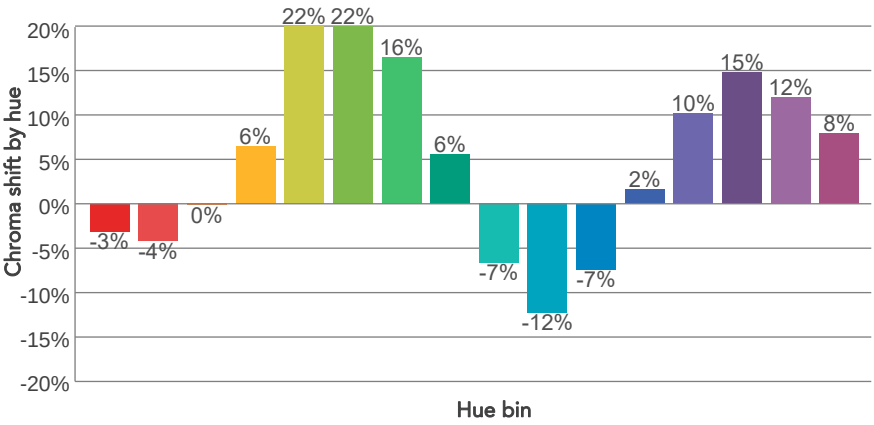
Gammut index

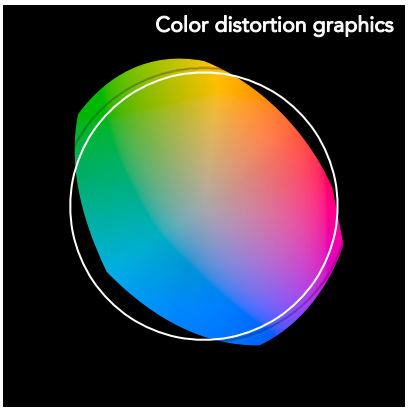
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	87	-3%	-5%
2	89	-4%	3%
3	74	0%	17%
4	65	6%	21%
5	58	22%	17%
6	68	22%	6%
7	75	16%	-5%
8	75	6%	-14%
9	83	-7%	-14%
10	81	-12%	1%
11	61	-7%	21%
12	65	2%	24%
13	73	10%	20%
14	73	15%	9%
15	84	12%	1%
16	82	8%	-8%

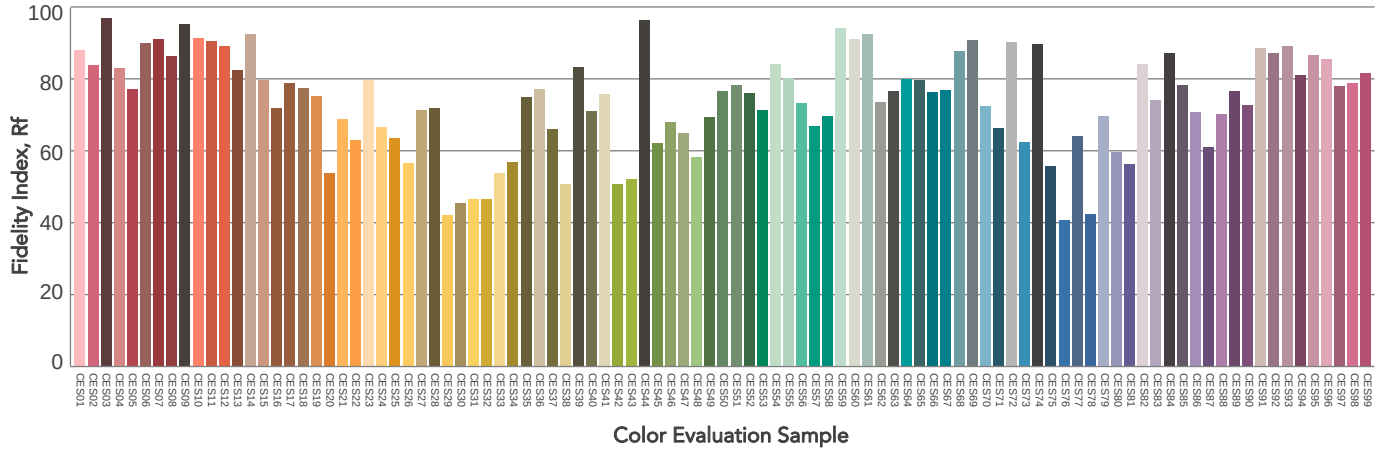












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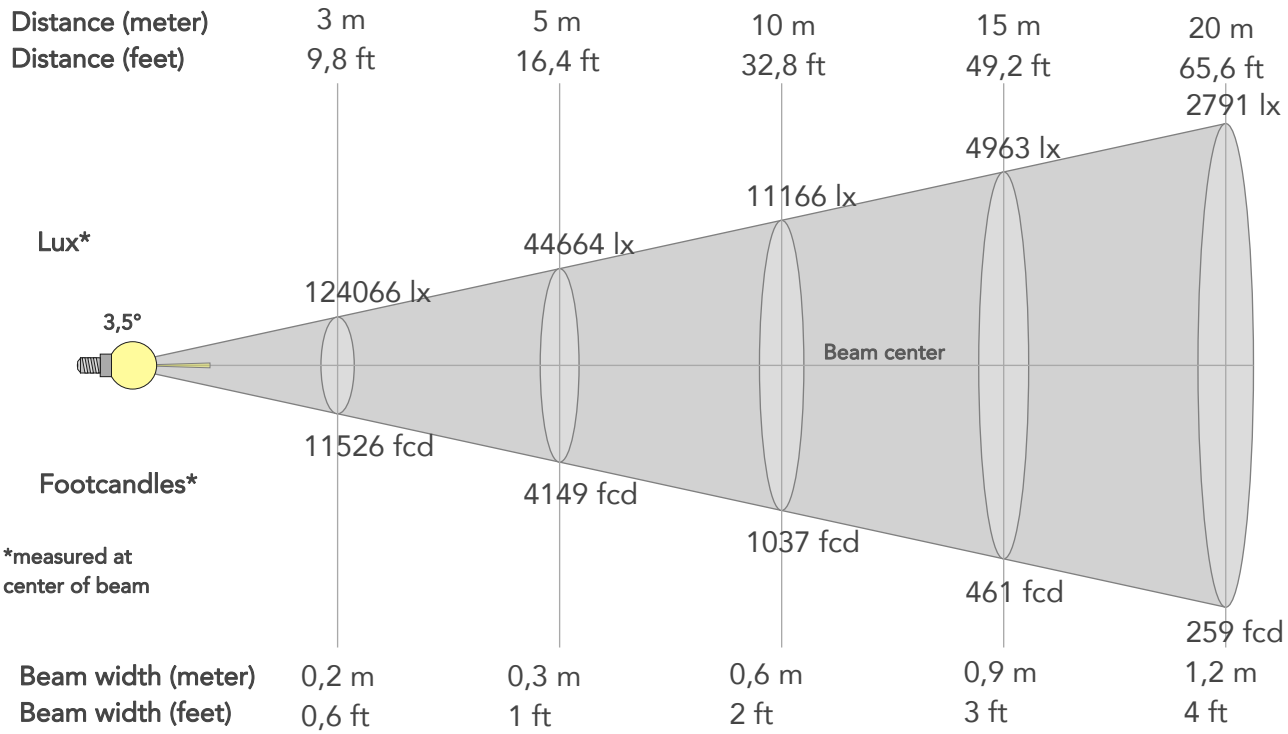
BEAM DETAILS

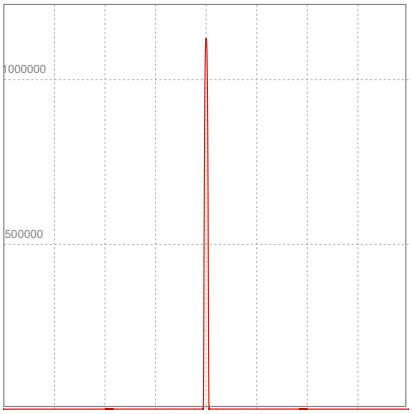
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,5°	4,5°	4,7°	77,0%	71,4%



BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1116597lx	279149lx	124066lx	69787lx	44664lx	19851lx	11166lx	4963lx	2791lx	1787lx	1241lx	698lx	447lx
Footcand.	103735fcd	25934fcd	11526fcd	6483fcd	4149fcd	1844fcd	1037fcd	461fcd	259fcd	166fcd	115fcd	65fcd	41fcd
Beam wid.	0,1m	0,1m	0,2m	0,2m	0,3m	0,5m	0,6m	0,9m	1,2m	1,5m	1,8m	2,4m	3m
Beam wid.	0,2ft	0,4ft	0,6ft	0,8ft	1ft	1,5ft	2ft	3ft	4ft	4,9ft	5,9ft	7,9ft	9,9ft

LINEAR DISTRIBUTION DIAGRAM



ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Power FC	Effeciency
225V	1,31A	280,7W	0,95	18lm/W

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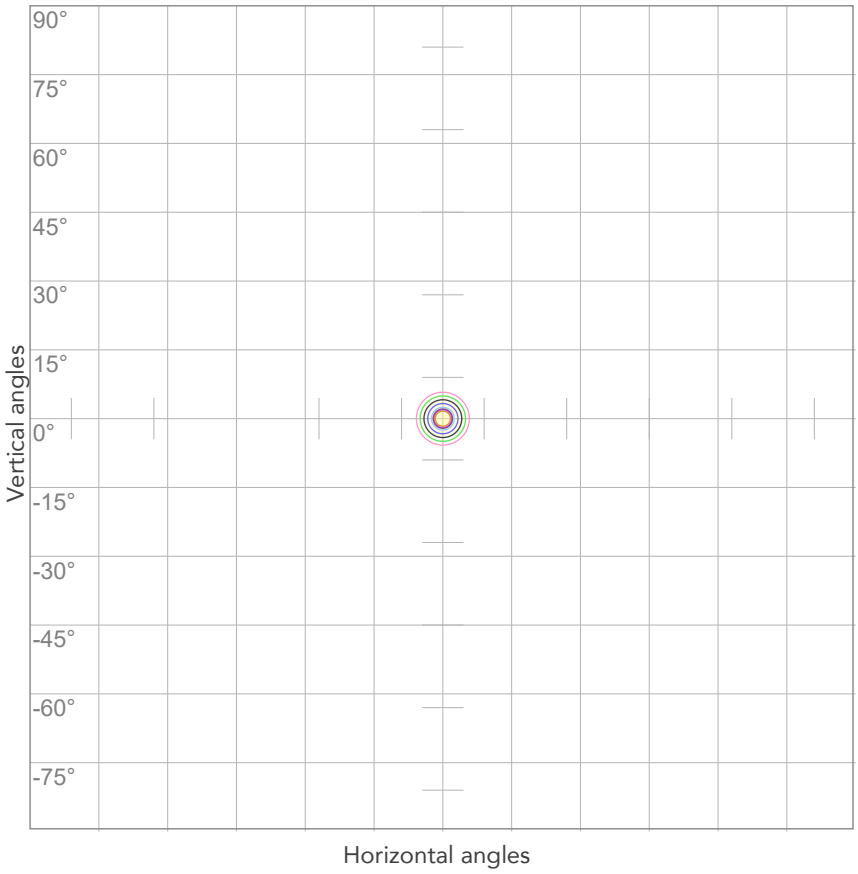
ISO DIAGRAMS

ISO CANDELA DIAGRAM



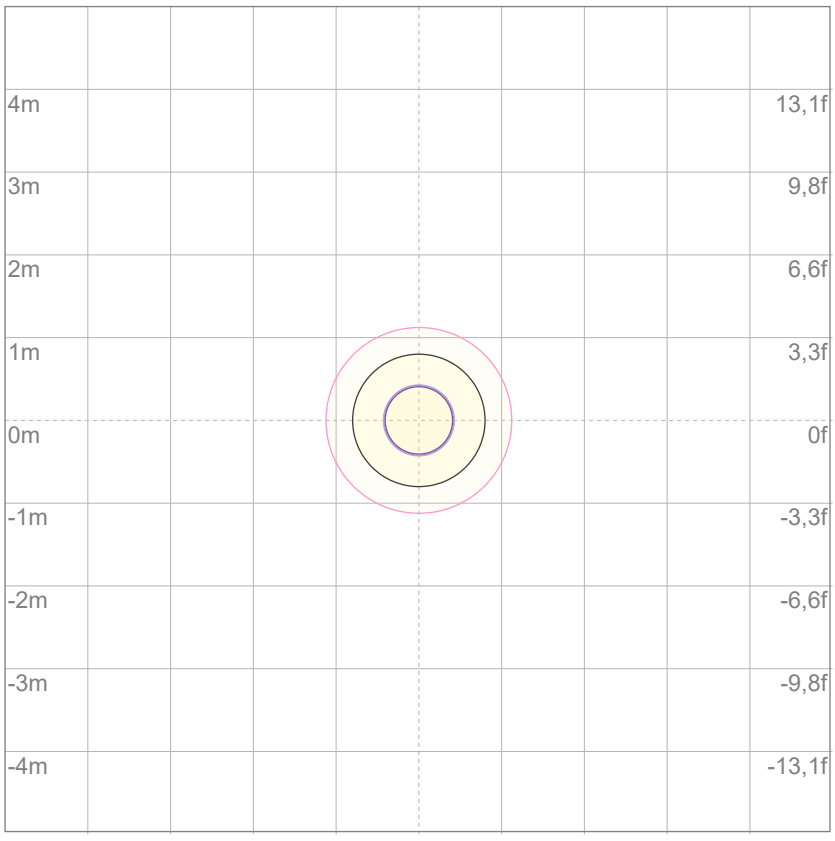
10%	111660 cd
20%	223319 cd
30%	334979 cd
40%	446639 cd
50%	558299 cd
60%	669958 cd
70%	781618 cd
80%	893278 cd

Conditions:

Number of c-planes: 2

Candela at center: 1116597 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	335 lx
5%	558 lx
10%	1117 lx
30%	3350 lx
50%	5583 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,2K lx

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