PROLiGHTS

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

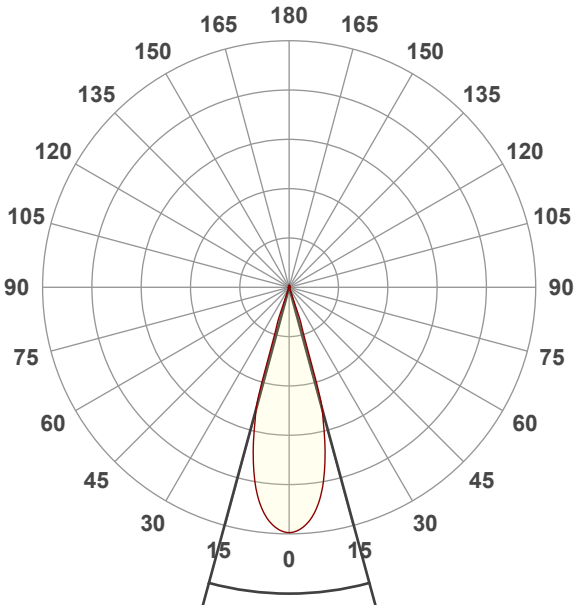
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
Full On

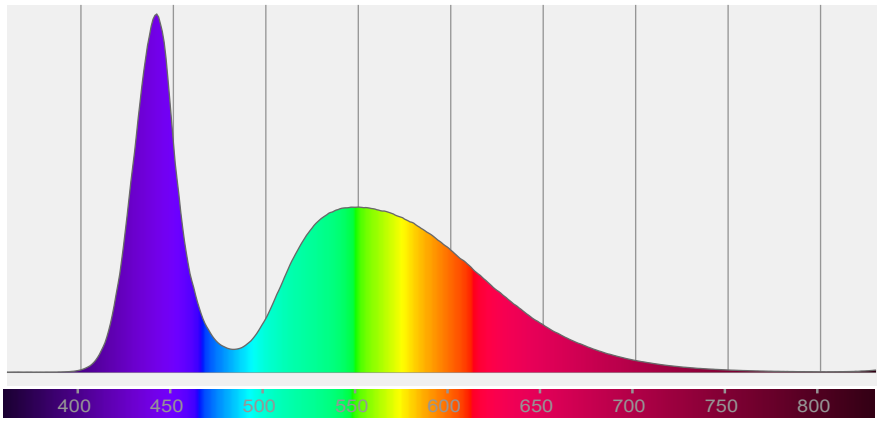
Operator:
Salvatore Giglio

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

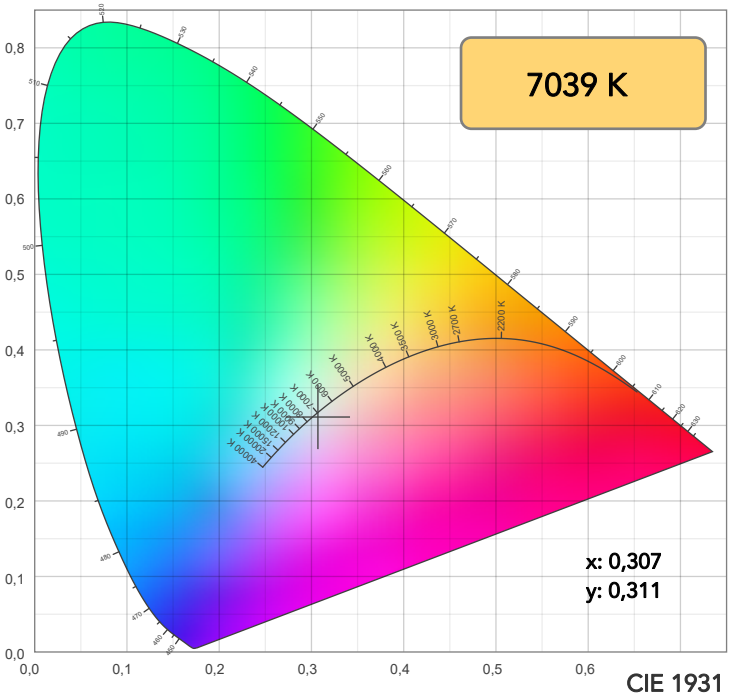


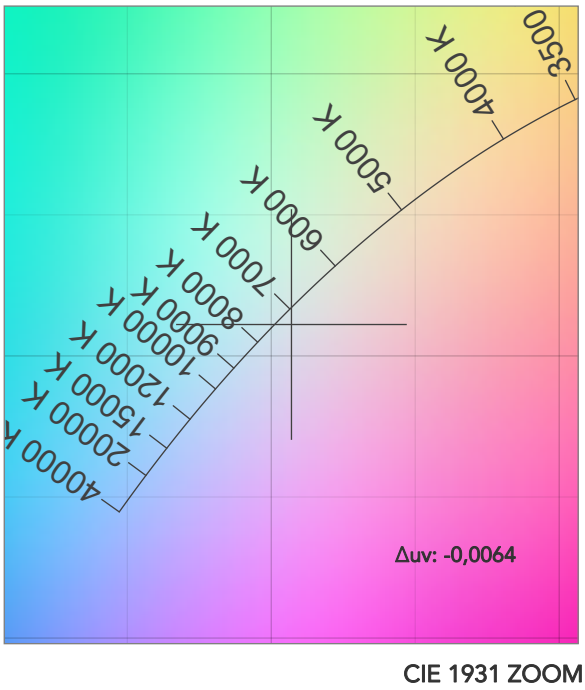
Beam angle 50%: 30,4°
Field angle 10%: 38,1°
Cut off angle 2.5%: 39,9°

Spectra

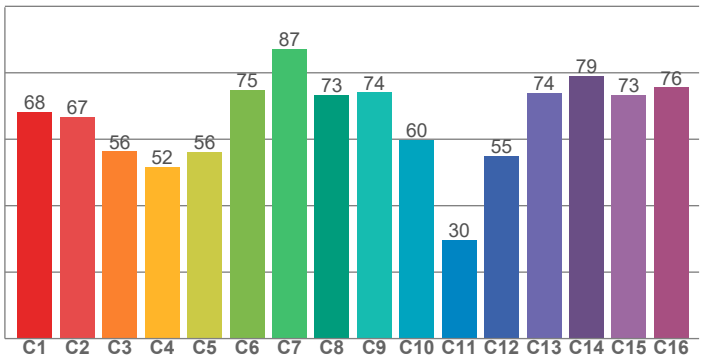


COLOR DETAILS

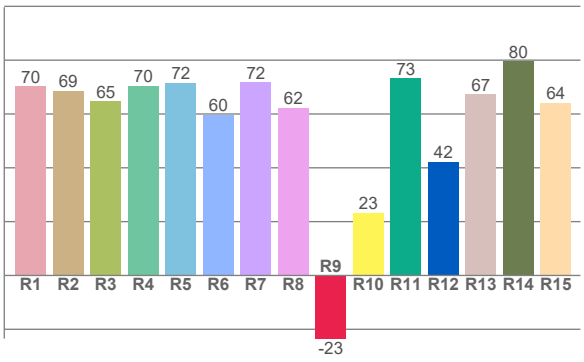




TM30: 65,1



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

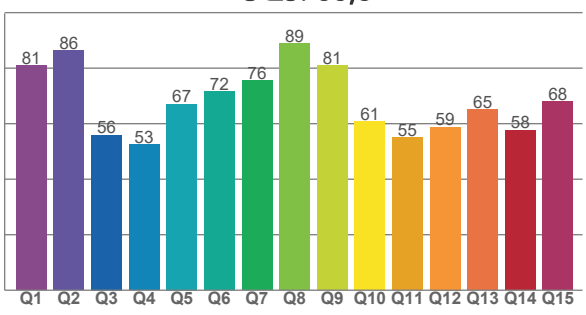
TM30 C values, 16 binned values out of total of 99 C values

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

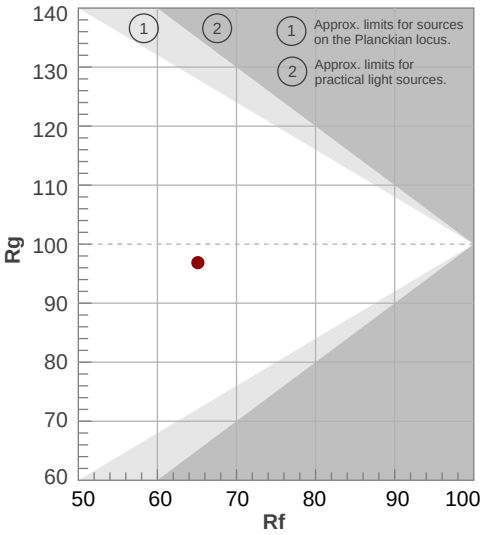
Rf 65,1

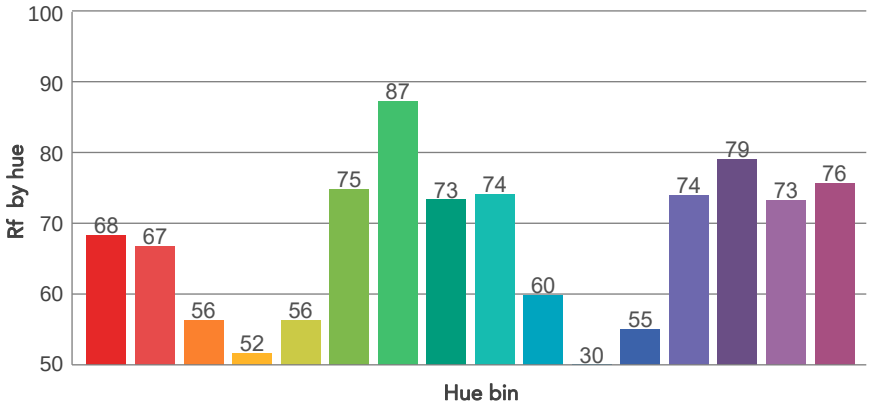
Fidelity index Rf

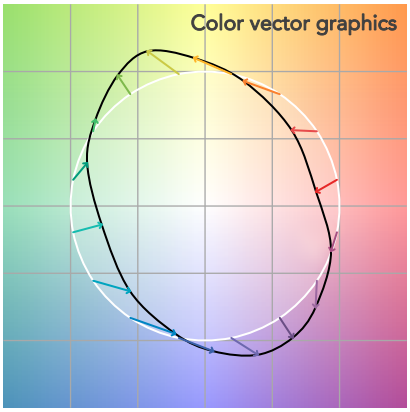
Rg 96,9

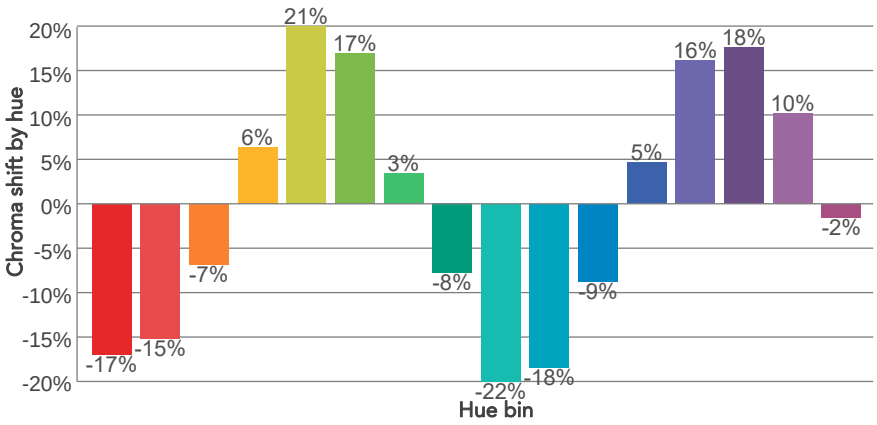
Gammut index

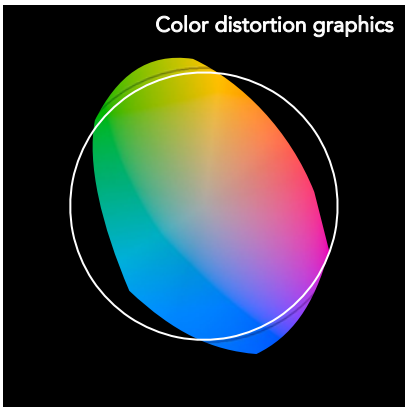
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	68	-17%	-6%
2	67	-15%	11%
3	56	-7%	28%
4	52	6%	29%
5	56	21%	19%
6	75	17%	0%
7	87	3%	-8%
8	73	-8%	-14%
9	74	-22%	-1%
10	60	-18%	22%
11	30	-9%	34%
12	55	5%	27%
13	74	16%	17%
14	79	18%	0%
15	73	10%	-17%
16	76	-2%	-15%

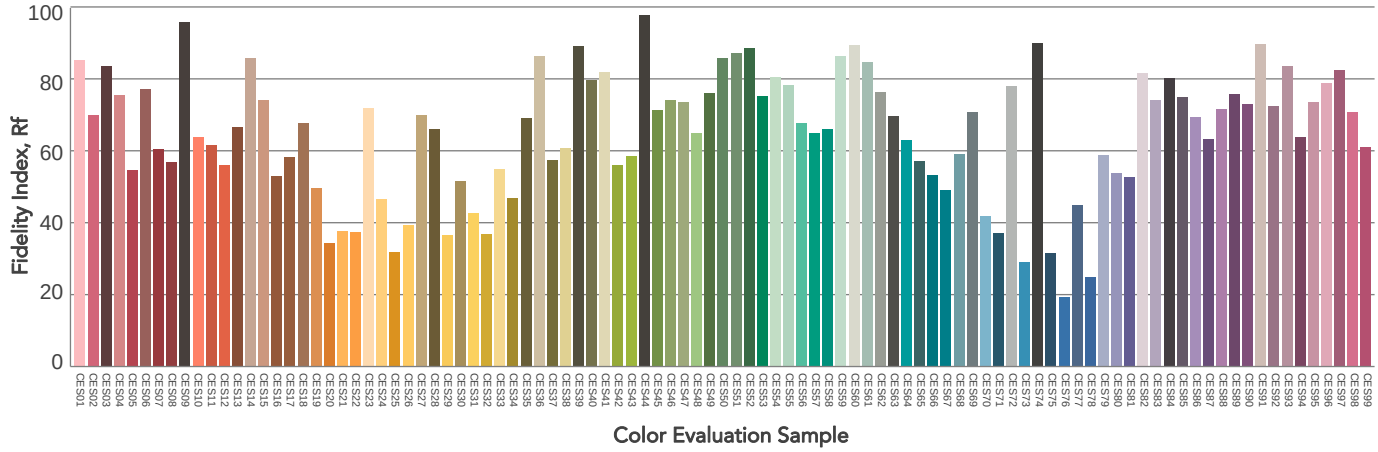












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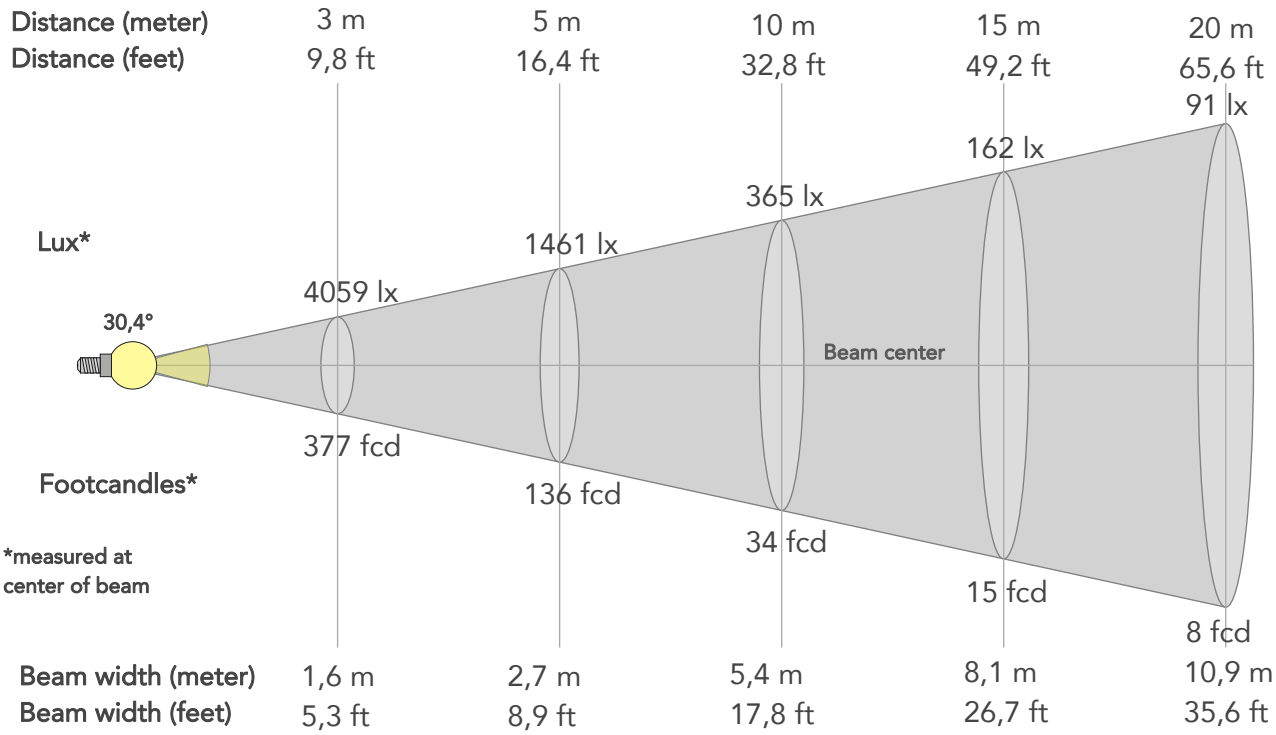
BEAM DETAILS

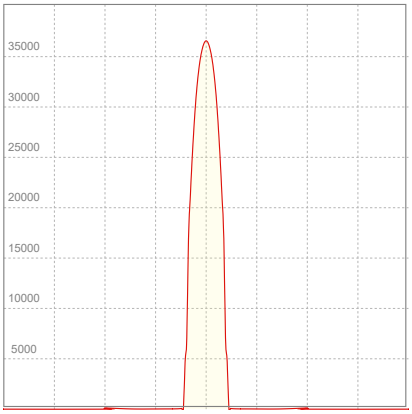
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,4°	38,1°	39,9°	97,7%	97,4%



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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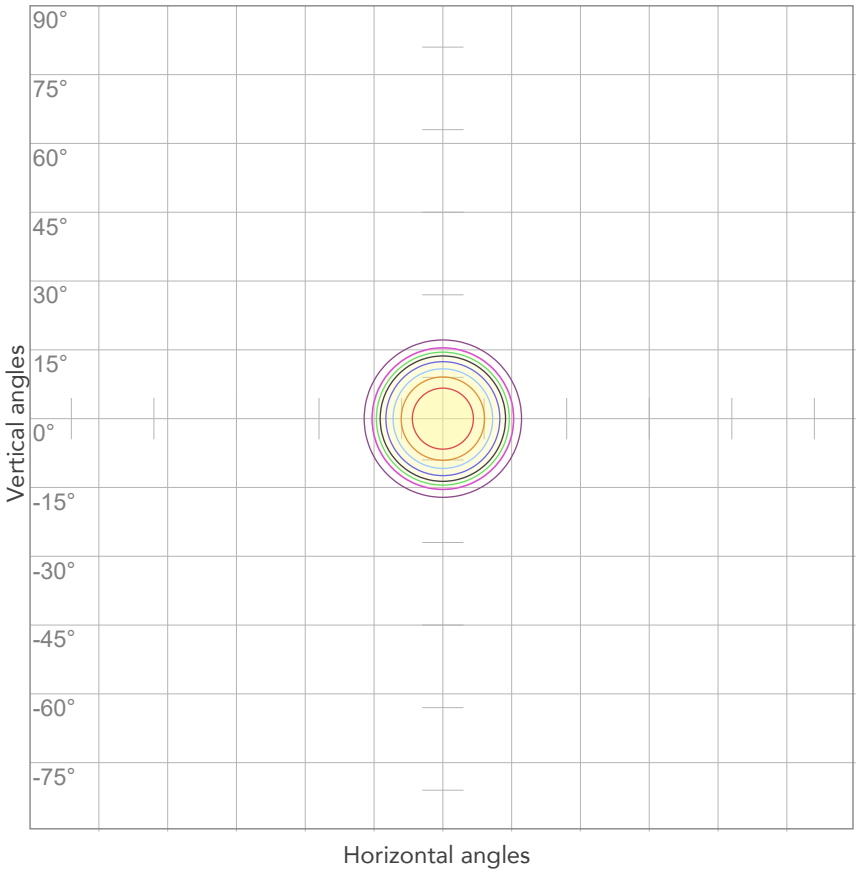
ISO DIAGRAMS

ISO CANDELA DIAGRAM



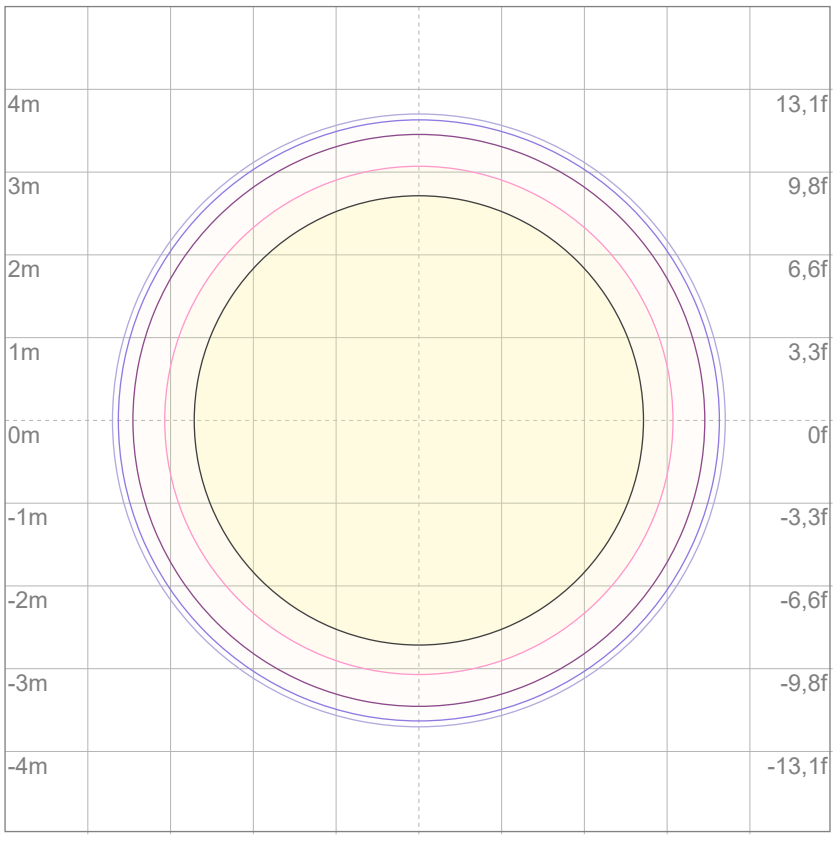
10%	3653 cd
20%	7306 cd
30%	10959 cd
40%	14612 cd
50%	18264 cd
60%	21917 cd
70%	25570 cd
80%	29223 cd

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.

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Total lumen output:

7794 lm

Peak candela output:

268836 cd

Light quality:

CRI: 67,5

Color temperature:

7077 K

PRODUCT NAME:

JETHYB200

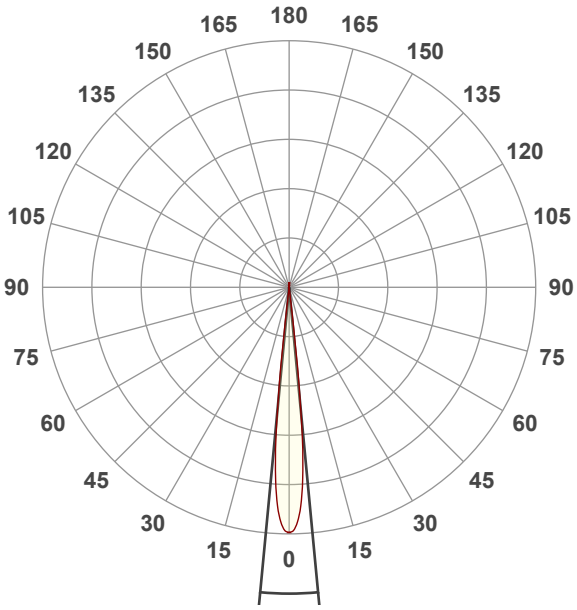
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
Full On

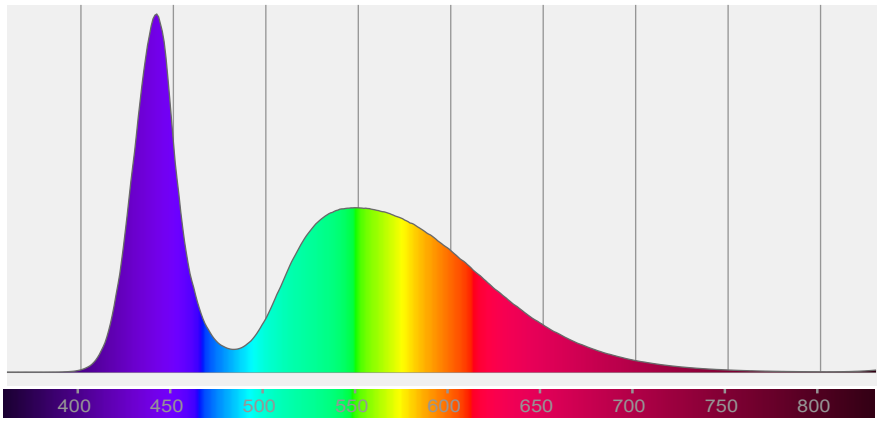
Operator:
Salvatore Giglio

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

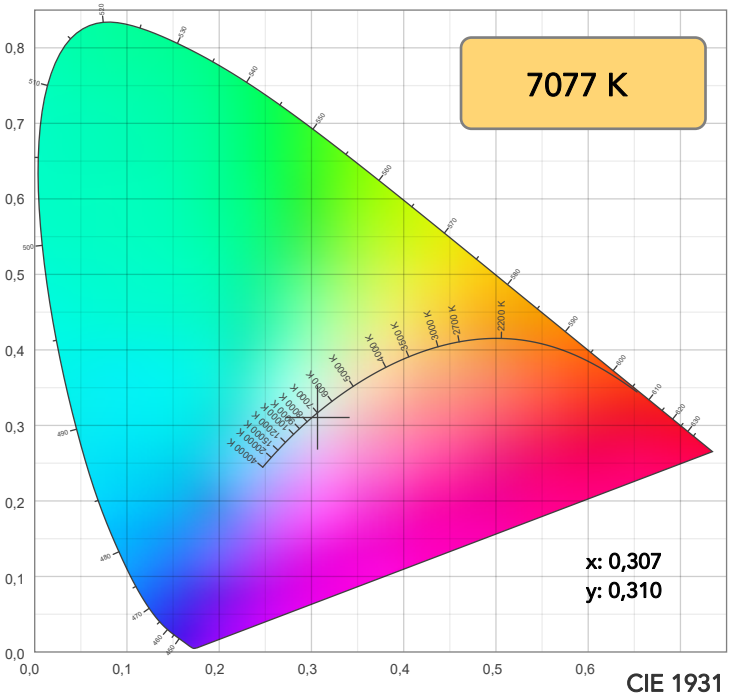


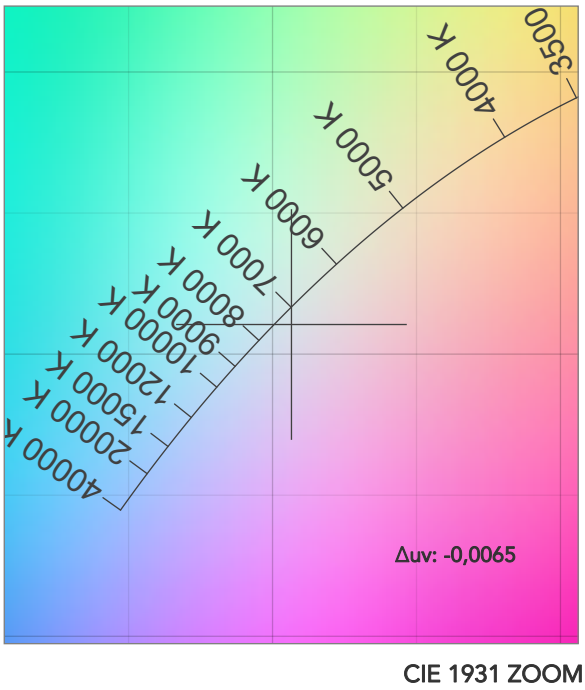
Beam angle 50%: 10,8°
Field angle 10%: 13,5°
Cut off angle 2.5%: 14°

Spectra

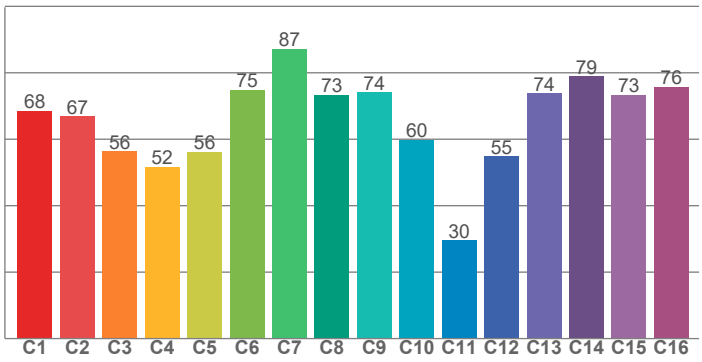


COLOR DETAILS

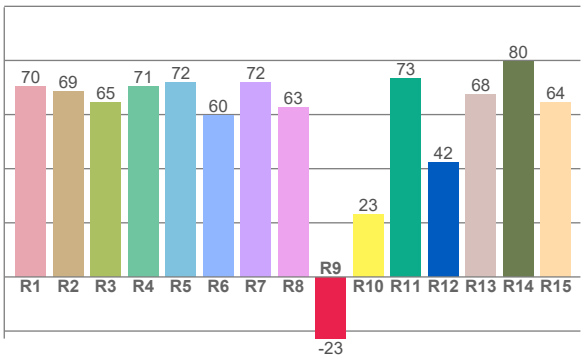




TM30: 65,1



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

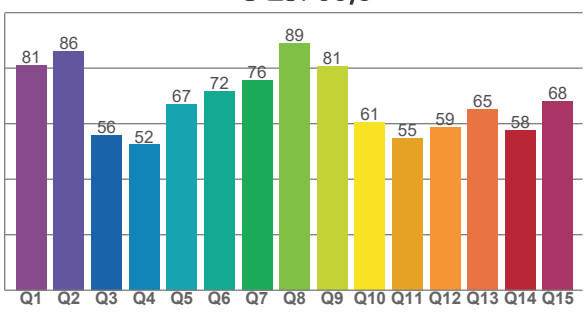
TM30 C values, 16 binned values out of total of 99 C values

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

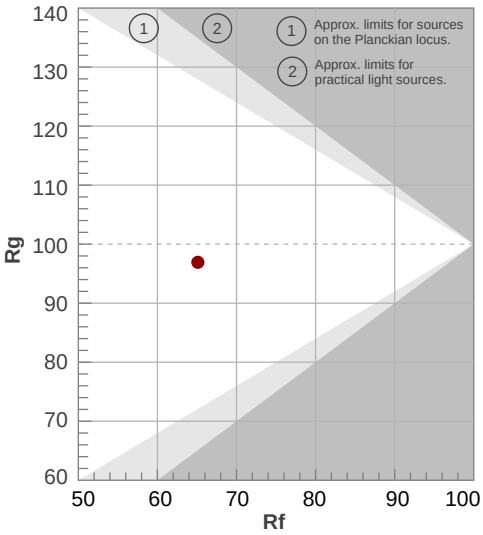
Rf 65,1

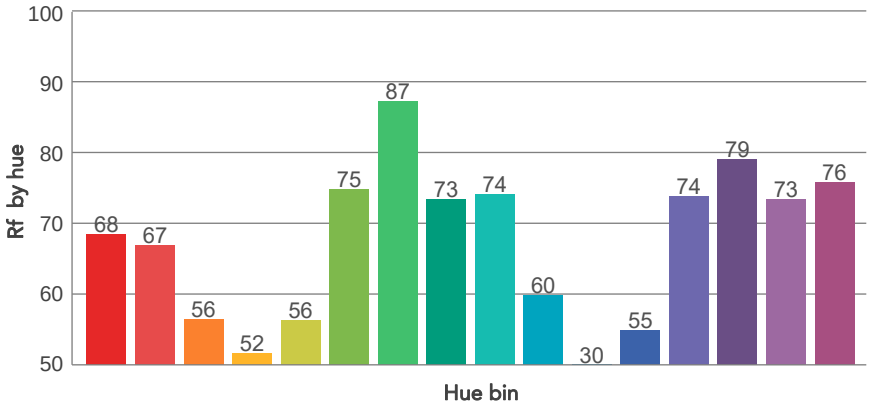
Fidelity index Rf

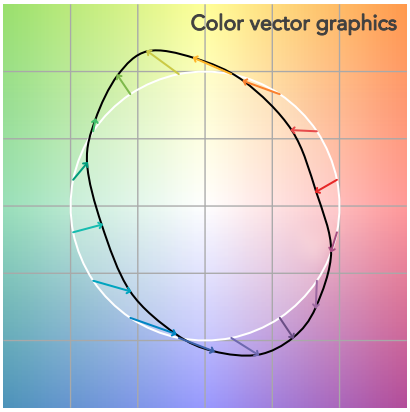
Rg 96,9

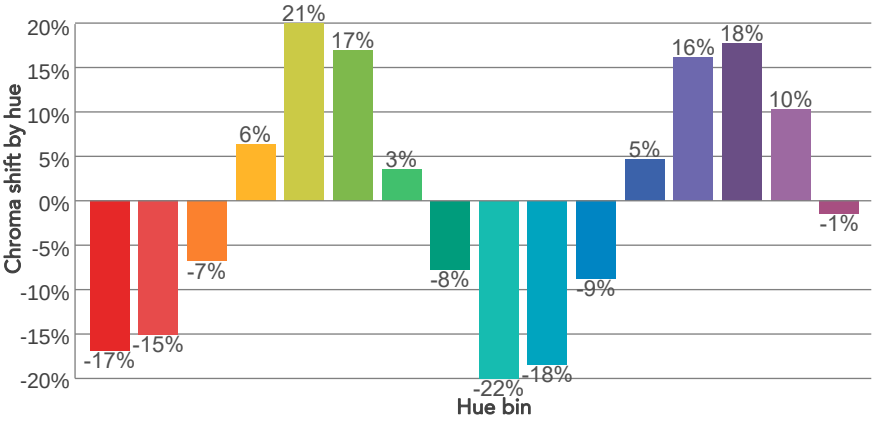
Gamut index

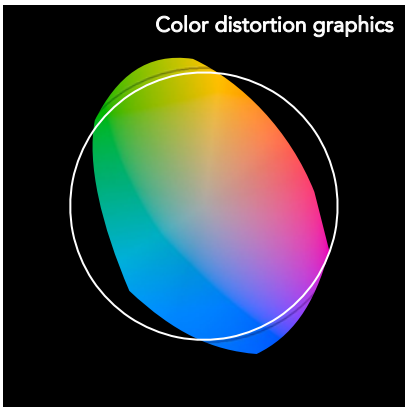
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	68	-17%	-6%
2	67	-15%	11%
3	56	-7%	28%
4	52	6%	30%
5	56	21%	20%
6	75	17%	0%
7	87	3%	-8%
8	73	-8%	-14%
9	74	-22%	-1%
10	60	-18%	22%
11	30	-9%	34%
12	55	5%	27%
13	74	16%	17%
14	79	18%	0%
15	73	10%	-17%
16	76	-1%	-15%

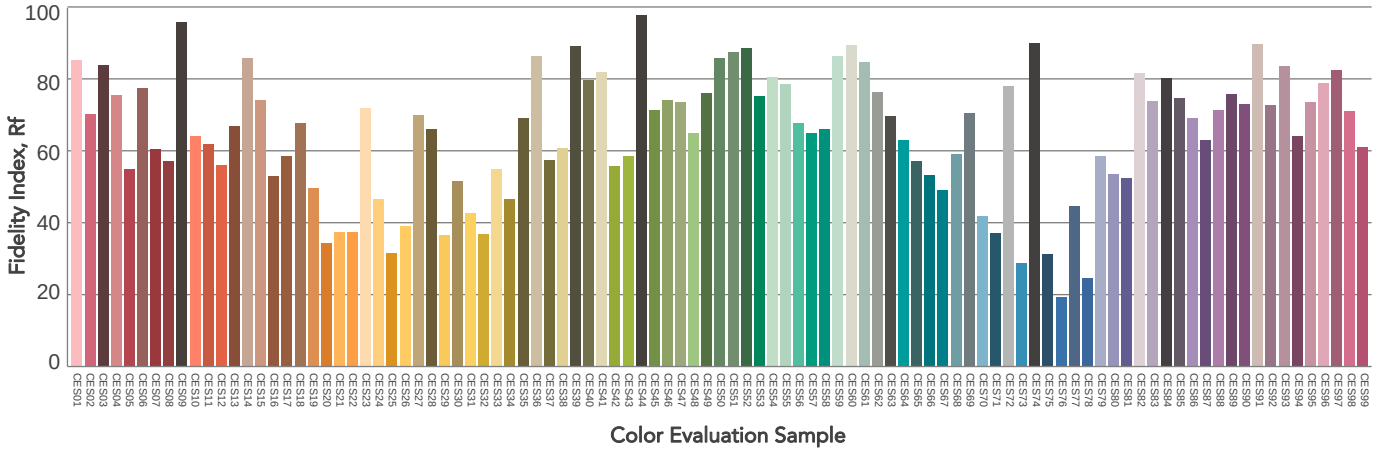












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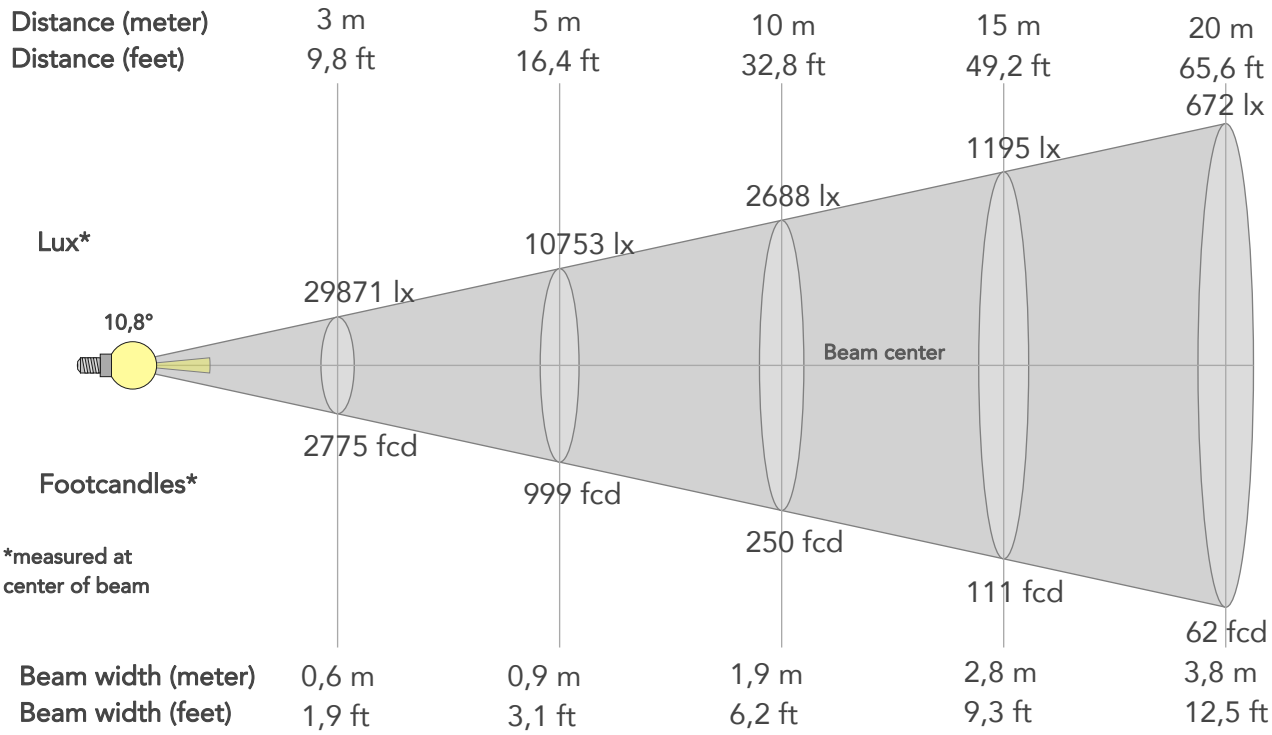
BEAM DETAILS

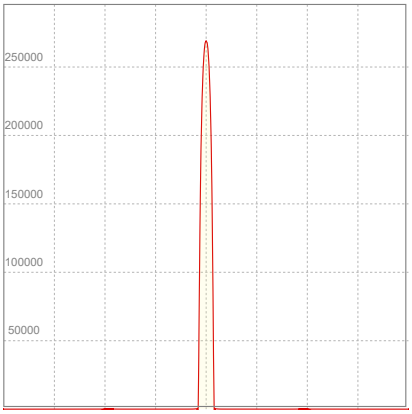
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
10,8°	13,5°	14°	94,6%	94,1%



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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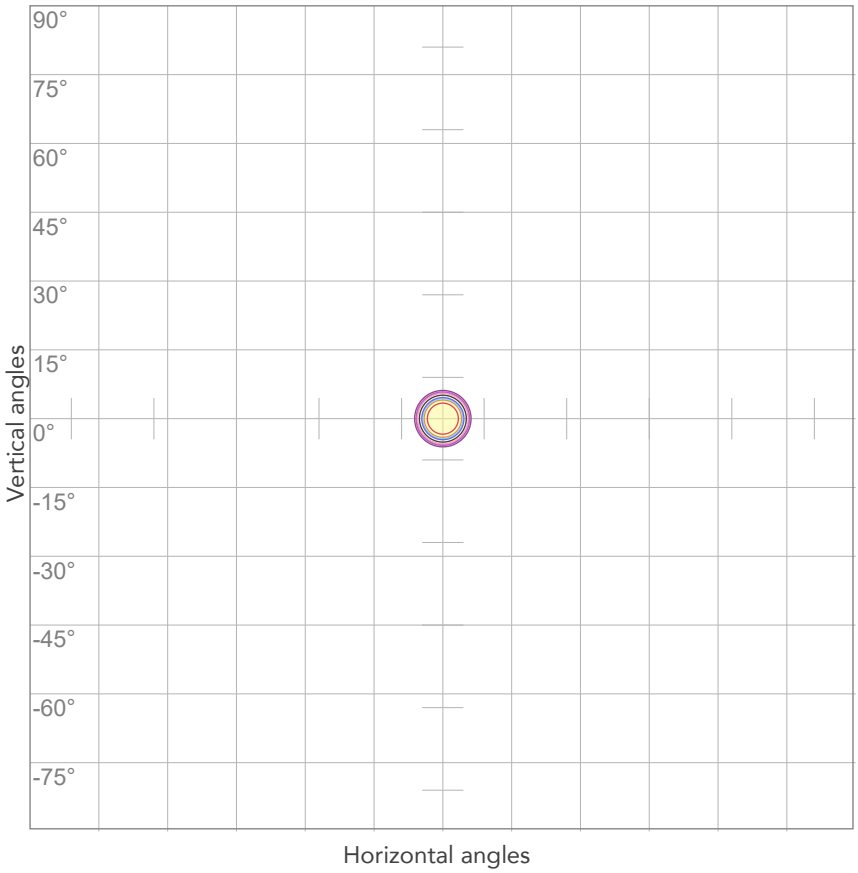
ISO DIAGRAMS

ISO CANDELA DIAGRAM



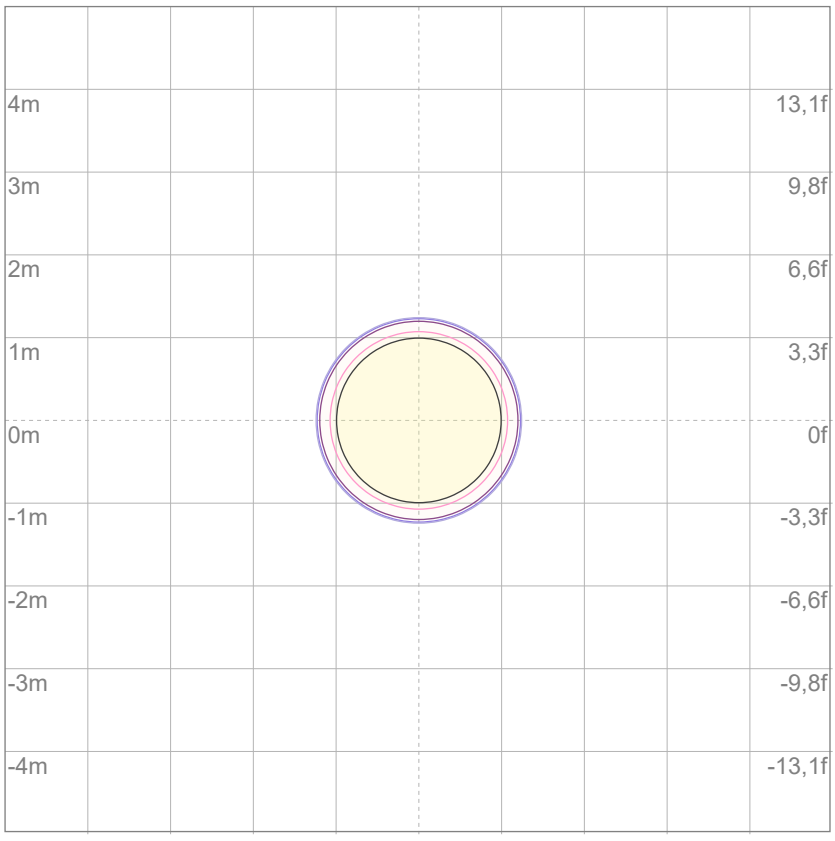
10%	26884 cd
20%	53767 cd
30%	80651 cd
40%	107534 cd
50%	134418 cd
60%	161301 cd
70%	188185 cd
80%	215068 cd

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

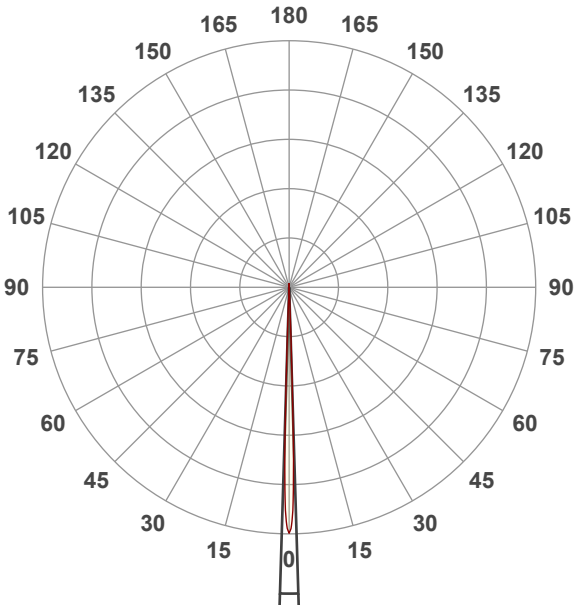
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
Full On

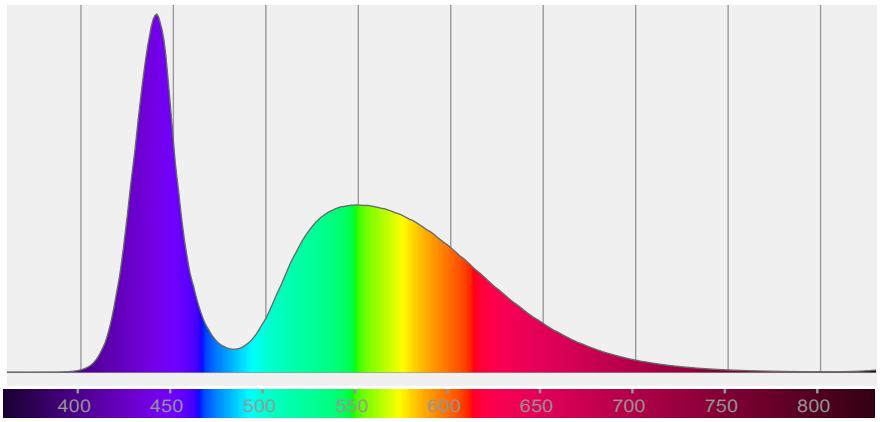
Operator:
Salvatore Giglio

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

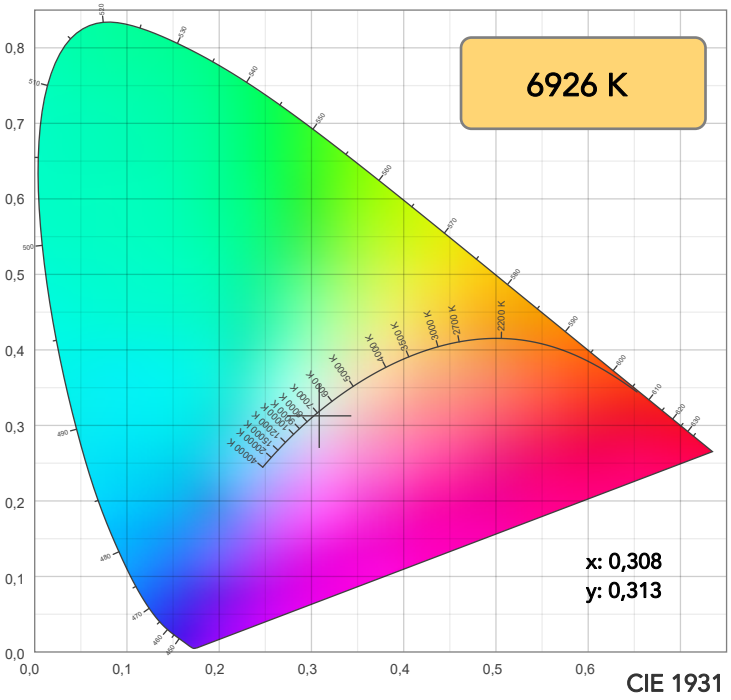


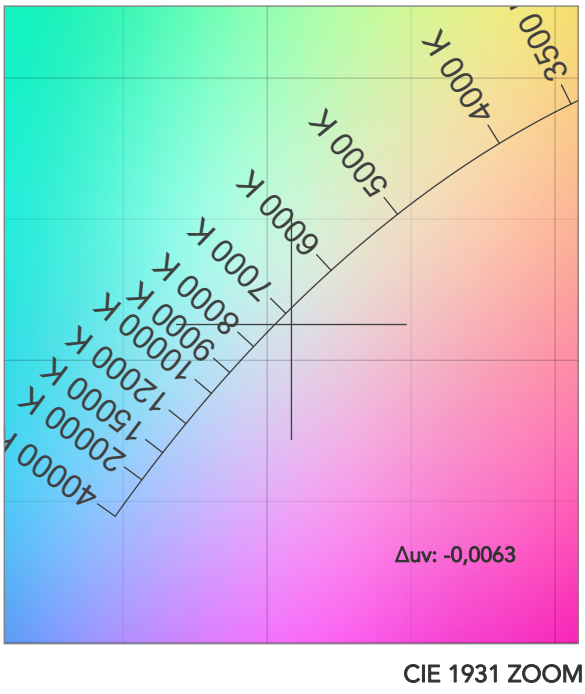
Beam angle 50%: 3,4°
Field angle 10%: 4,7°
Cut off angle 2.5%: 5°

Spectra

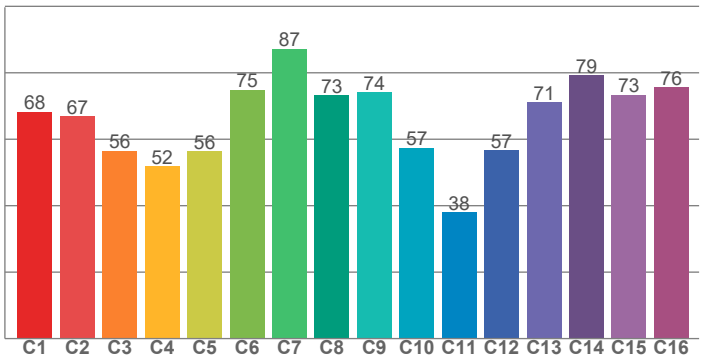


COLOR DETAILS

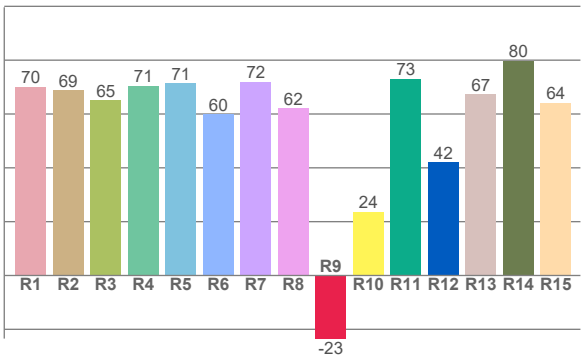




TM30: 65,2



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

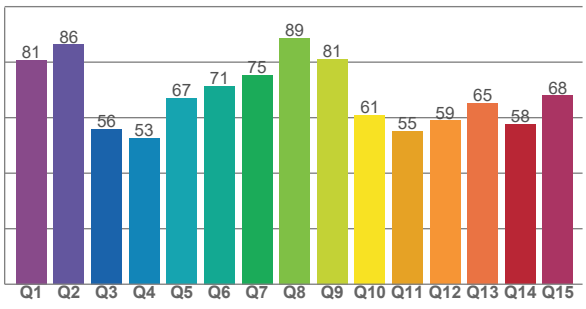
TM30 C values, 16 binned values out of total of 99 C values

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

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PROLiGHTS

SL2/ CDS@HKR

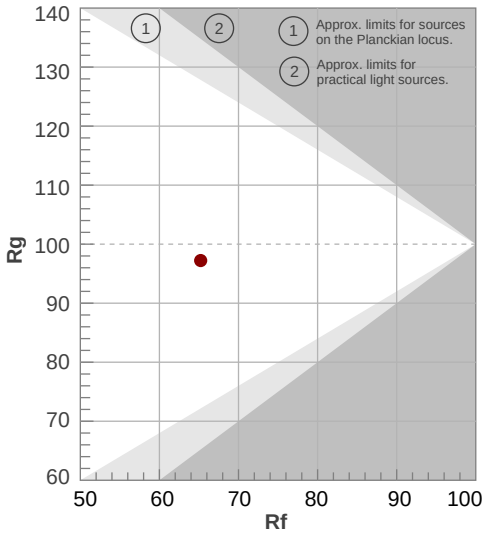
Qe 54+1

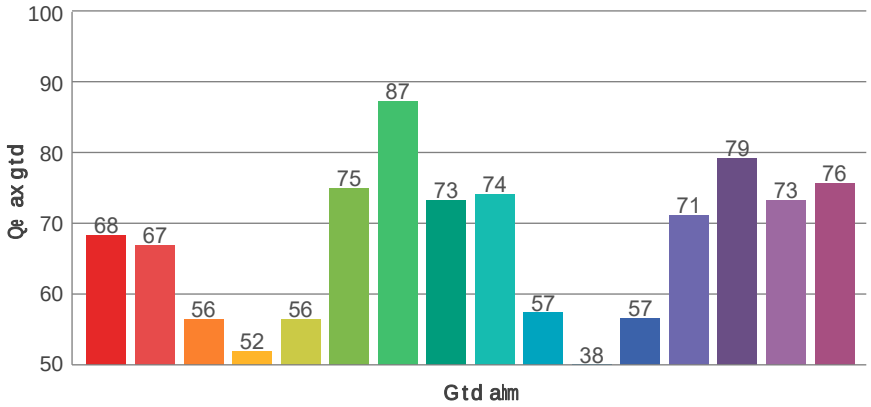
Ehcdkhsx hmcdw Qe

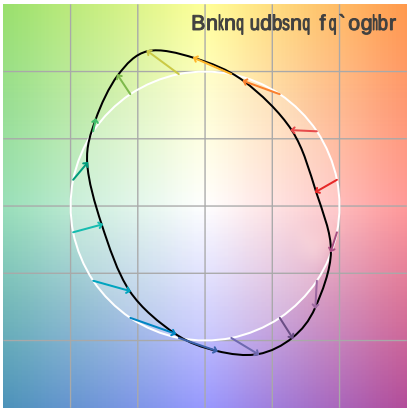
Qf 86+1

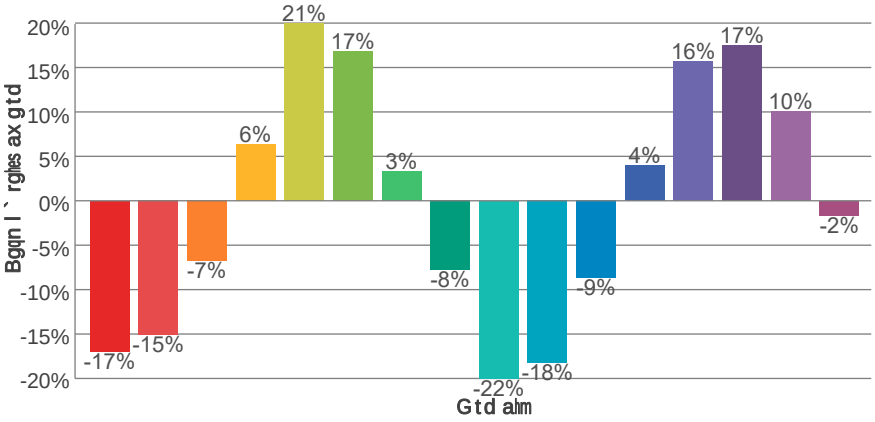
F` l l ts hmcdw

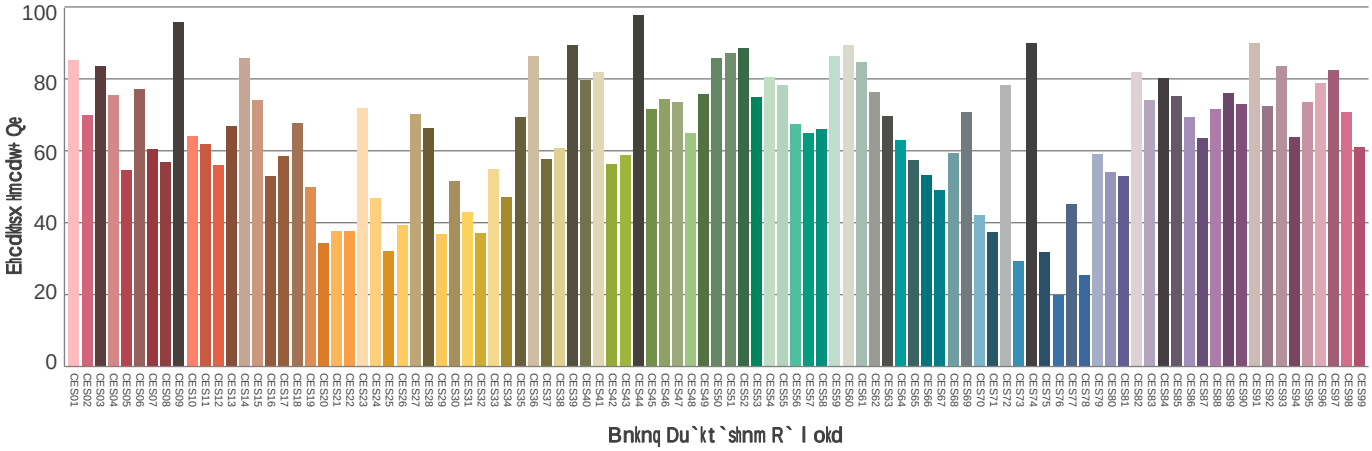
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	68	-17%	-6%
2	67	-15%	11%
3	56	-7%	28%
4	52	6%	29%
5	56	21%	19%
6	75	17%	0%
7	87	3%	-8%
8	73	-8%	-14%
9	74	-22%	-1%
10	57	-18%	21%
11	38	-9%	34%
12	57	4%	29%
13	71	16%	17%
14	79	17%	0%
15	73	10%	-17%
16	76	-2%	-15%











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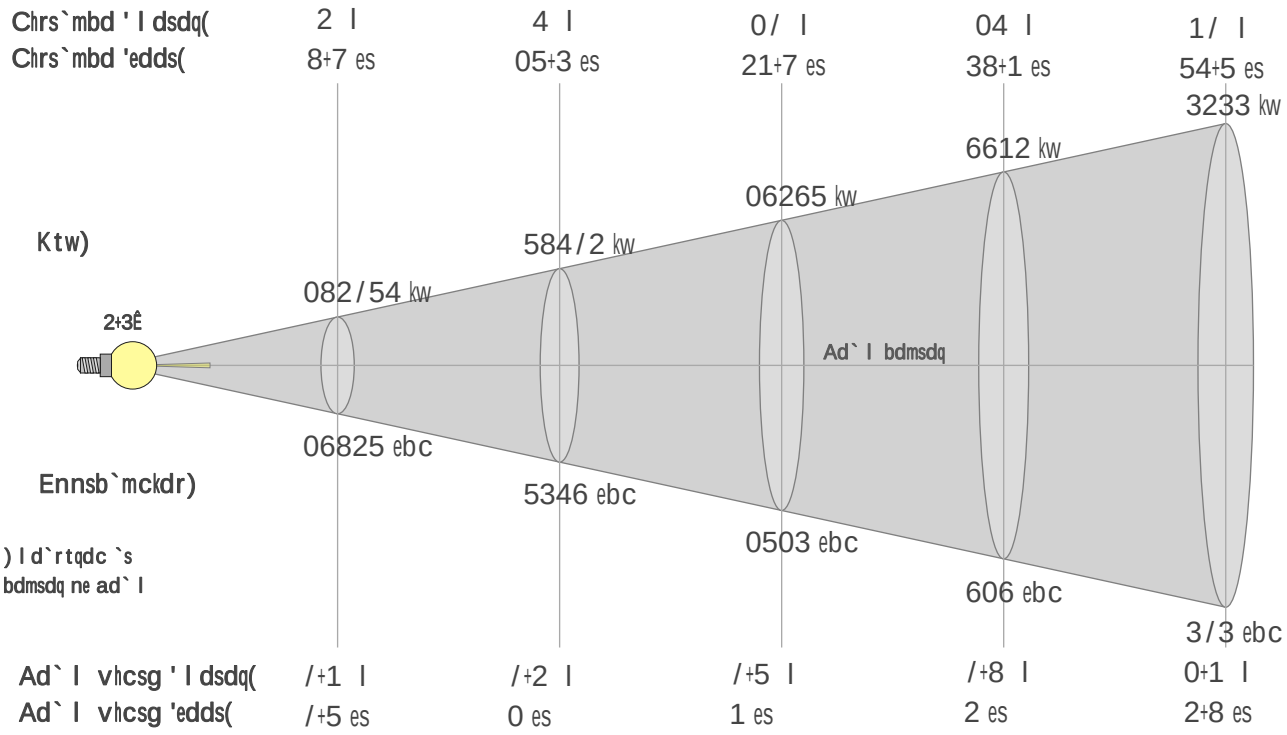
AD@ L CDS@HKR

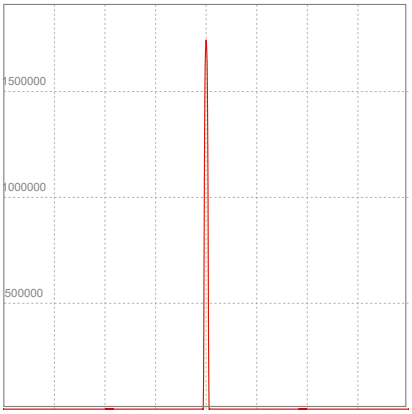
Ad` l `mfkd 4/ $	Ehdkc `mfkd 0/ $	Bts nee `mfkd 1+4 $	Hmsdmrhsx q`shn hm 01/Ê bnmd	Hmsdmrhsx q`shn hm 8/Ê bnmd
2+3Ê	3+6Ê	4Ê	77+8 $	76+0 $



AD@ L HMSDMRHSHDR @MC VHCSGR

Chrs`mbd	0 l	1 l	2 l	3 l	4 l	6+4 l	0/ l	04 l	1/ l	14 l	2/ l	3/ l	4/ l
Chrs`mbd	2+2es	5+5es	8+7es	02+0es	05+3es	13+5es	21+7es	38+1es	54+5es	71es	87+3es	020+1es	053es
Ktw	0626474kw	323285kw	082/54kw	0/7488kw	584/2kw	2/78/kw	06265kw	6612kw	3233kw	167/kw	0820kw	0/75kw	584kw
Ennsb`mc-	050316ebc	3/246ebc	06825ebc	0//78ebc	5346ebc	176/ebc	0503ebc	606ebc	3/3ebc	147ebc	068ebc	0/0ebc	54ebc
Ad` l vhc-	/+0 l	/+0 l	/+1 l	/+1 l	/+2 l	/+4 l	/+5 l	/+8 l	0+1 l	0+4 l	0+7 l	1+3 l	2 l
Ad` l vhc-	/+1es	/+3es	/+5es	/+7es	0es	0+4es	1es	2es	2+8es	3+8es	4+8es	6+8es	8+7es

KHMD@Q CHRSQHATSHNM CH@FQ@ L

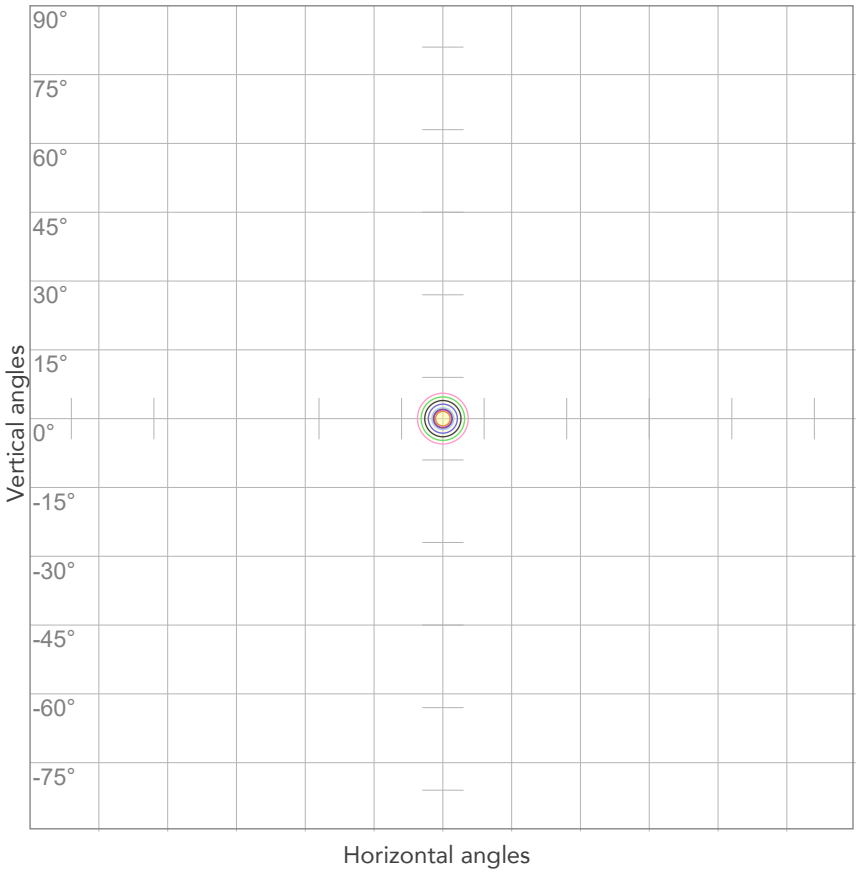


DKDBSQHB@K RODBHEHB@SHNMR

Hmots unks`fd	Hmots btqqdms	Hmots onvdq	Onvdq EB	Deedbhdmbx
112U	0+2/@	164+4V	/+84	11k l .V

ISO DIAGRAMS

ISO CANDELA DIAGRAM



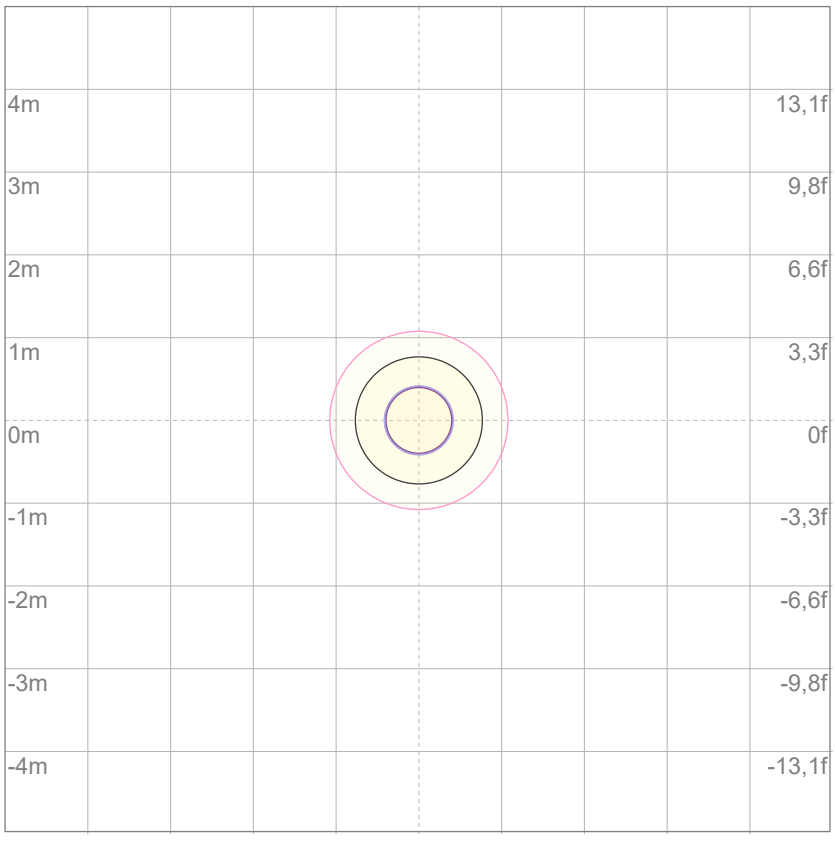
10%	173758 cd
20%	347517 cd
30%	521275 cd
40%	695034 cd
50%	868792 cd
60%	1042551 cd
70%	1216309 cd
80%	1390068 cd

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.

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Sns`kkt l dm ntsots9

2525 k l

Od`j b`mcdk` ntsots9

06420 bc

Khfgs pt`khsx9

BQH9 52+0

Bnknq sd l odq`stqd9

213/ J

OQNCTBS M@L D9

IDSGXA1//

L D@RTQ@L DMS BNMCHSHNMR9

Ad` l `mfkd9

L hm Ynn l

S`qfds9

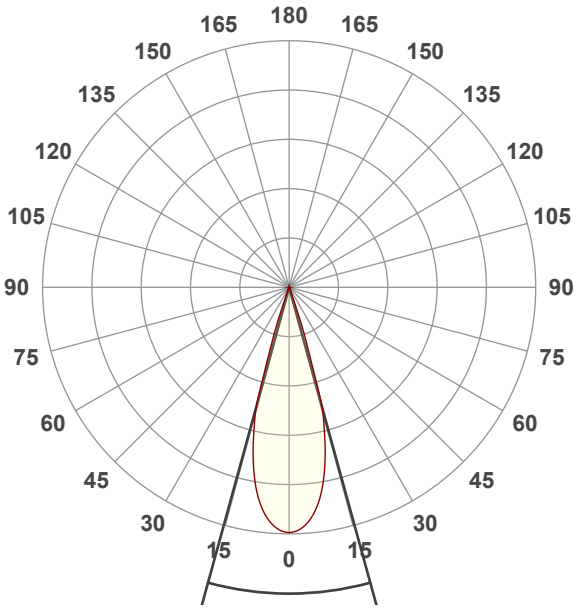
BSN 21//j

Nodq`snq9

R`ku`snqd Fhfkhn

C`sd `mc sh l d9

/3./0.1/13 06901901

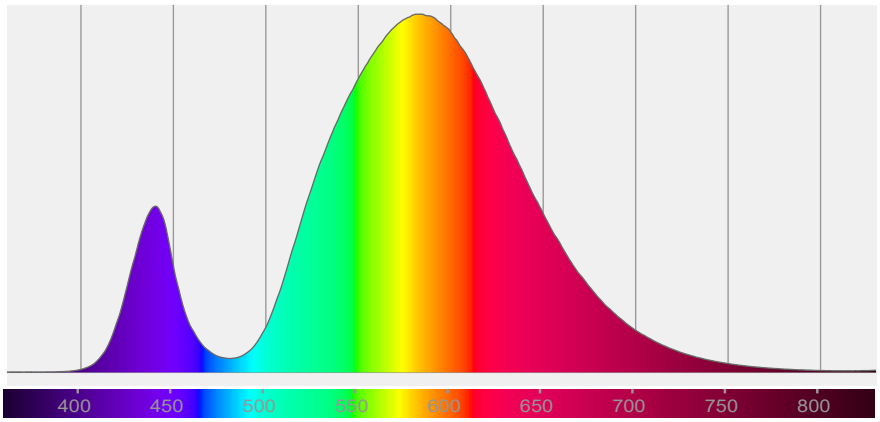


Ad` l `mfkd 4/ $9 2/+6Ê

Ehdkc `mfkd 0/ $9 27+1Ê

Bts nee `mfkd 1-4 $9 3/Ê

Rodbsq`



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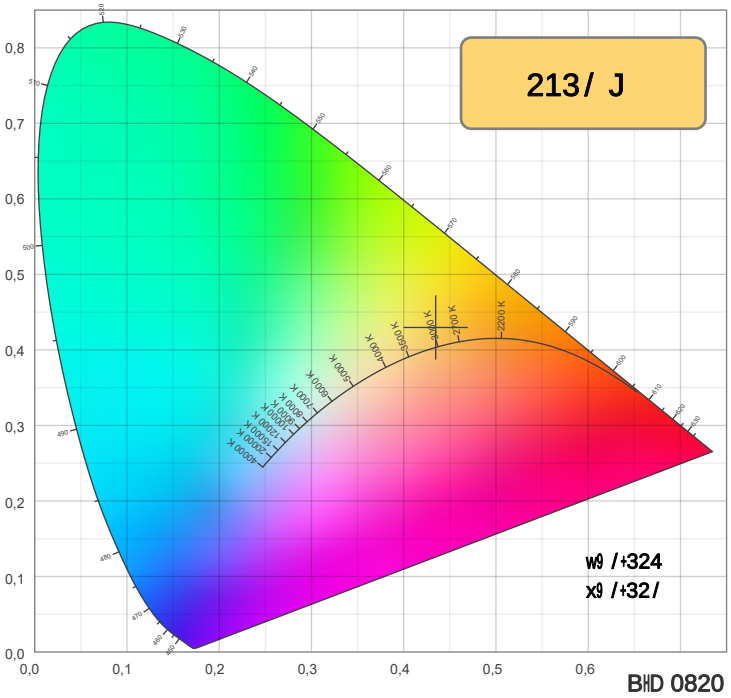
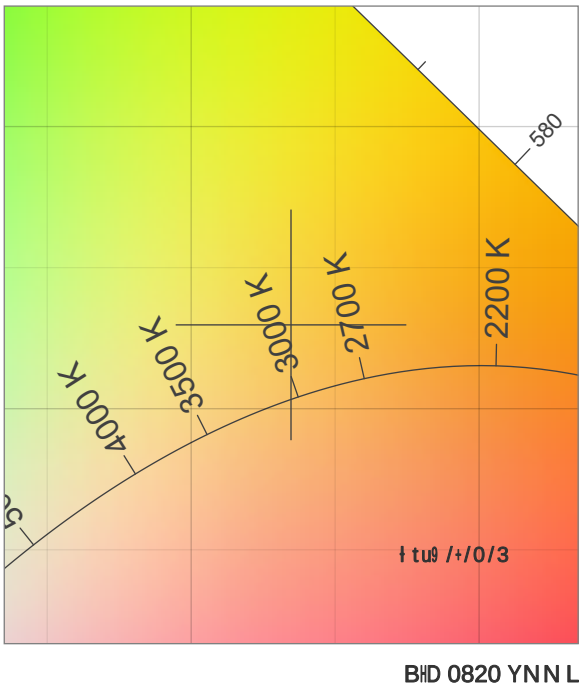
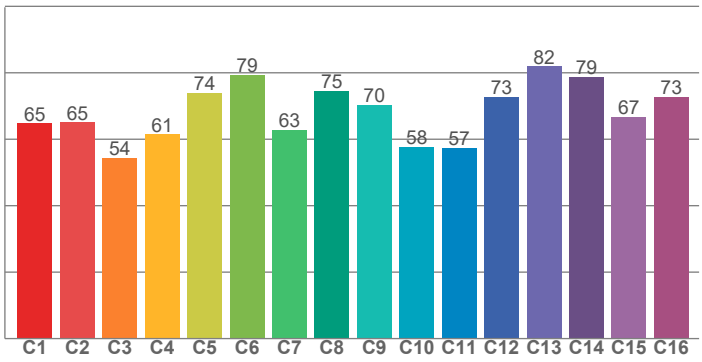
BNKNQ CDS@HKR

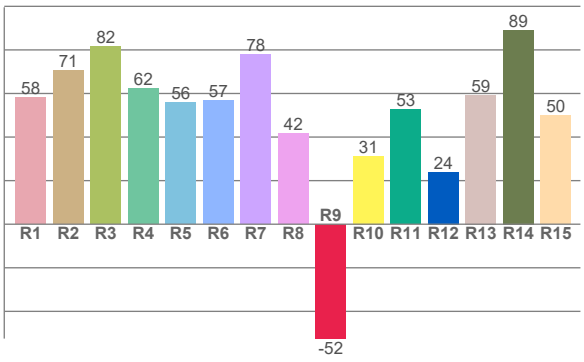




SL2/9 56+6



BQH9 52+0 'Q0,Q7(



BQH Q u`ktdr+ nmkx Q0,Q7 `qd trdc sn b`kbtk`sd elm`k BQH u`ktd

Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q0/	Q00	Q01	Q02	Q03	Q04
47+2	6/+4	70+6	51+1	44+7	45+8	66+8	30+6	,41+4	20+2	41+6	12+8	48+1	78+1	38+7

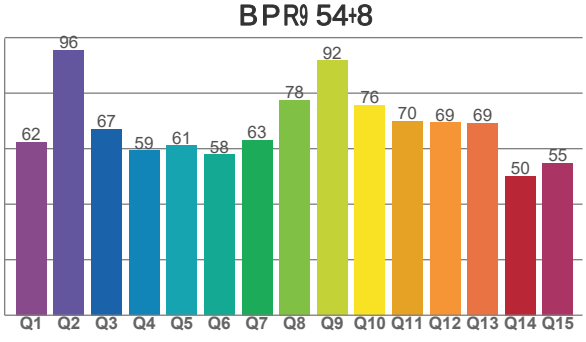
SL2/ B u`ktdr+ 05 almmdc u`ktdr nts ne sns`k ne 88 B u`ktdr

B0	B1	B2	B3	B4	B5	B6	B7	B8	B0/	B00	B01	B02	B03	B04	B05
53+7	54+0	43+2	50+3	62+8	68+3	51+8	63+5	6/+3	46+7	46+3	61+7	70+8	67+7	55+7	61+7

BPR P u`ktdr

P0	P1	P2	P3	P4	P5	P6	P7	P8	P0/	P00	P01	P02	P03	P04
51+3	84+5	56+1	48+2	50+0	46+8	52+0	66+4	80+6	64+6	6/+/	58+3	58+0	4/+0	43+7

BPR9 54+8



BNKNQ O@Q@ L DSDQR

Bnlnq sd l odq`stqd	Bnlnq qdmcdjmf lmcdw	Qdc bn l onmdms	Bnlnq elcdllex	Bnlnq f` l ts	Bnlnq pt`llex rb`ld	Sdldulrlnm lkf gslmf lmcdw	Bnlnq bnnqclm`sd bld 0820	Bnlnq bnnqclm`sd bld 0820	Bnlnq clul`slnm eqn l al`bj ancx
BBS	BQH	BQH Q8	SL2/ Qe	SL2/ Qf	BPR	SKBH	w	x	ł tu
213/ J	52+0	,41+4	56+6	80+5	54+8	24	/+324	/+32/	/+/0/3

PROLiGHTS

SL2/ CDS@HKR

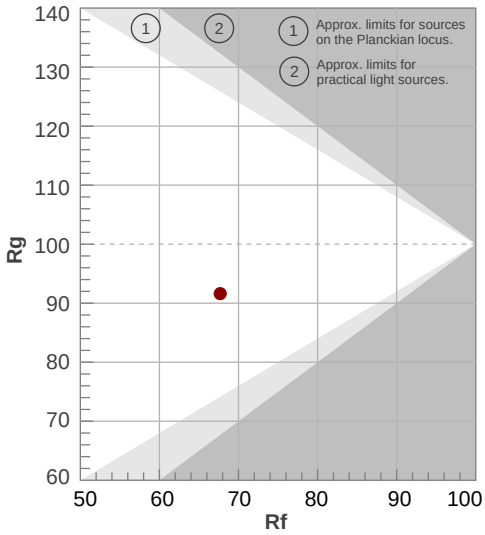
Qe 56+6

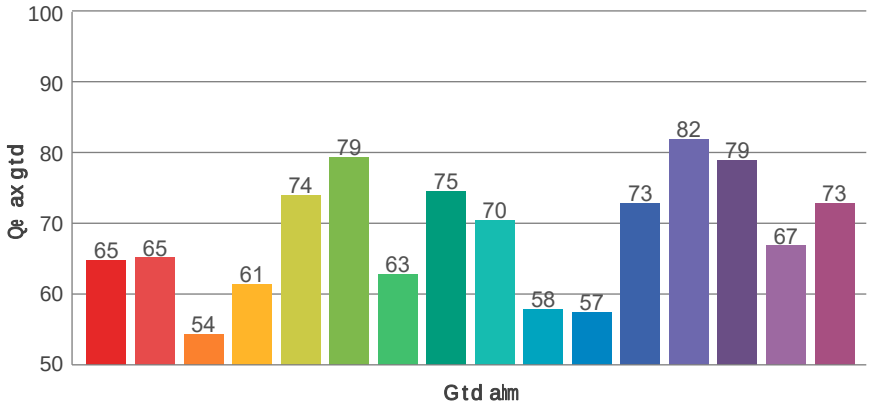
Ehcdkhsx hmcdw Qe

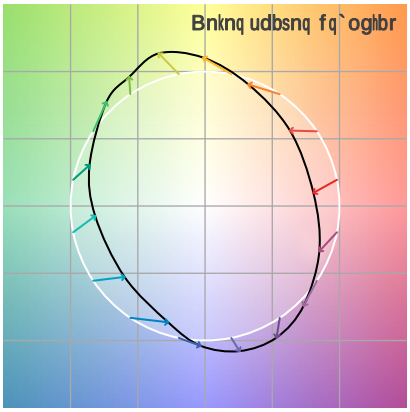
Qf 80+5

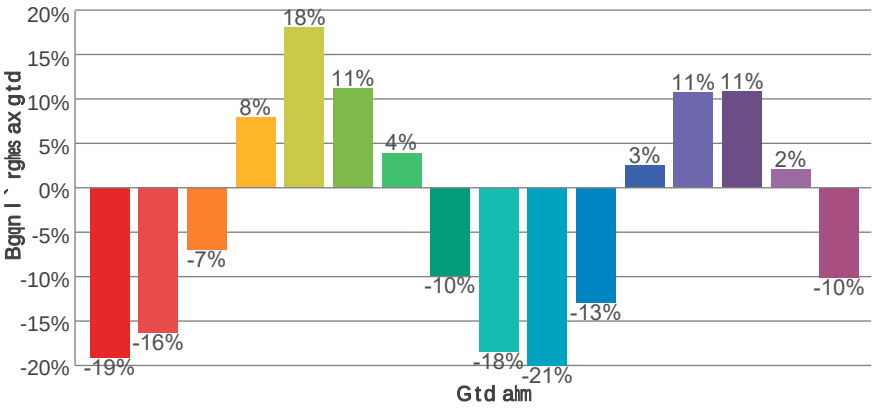
F` l l ts hmcdw

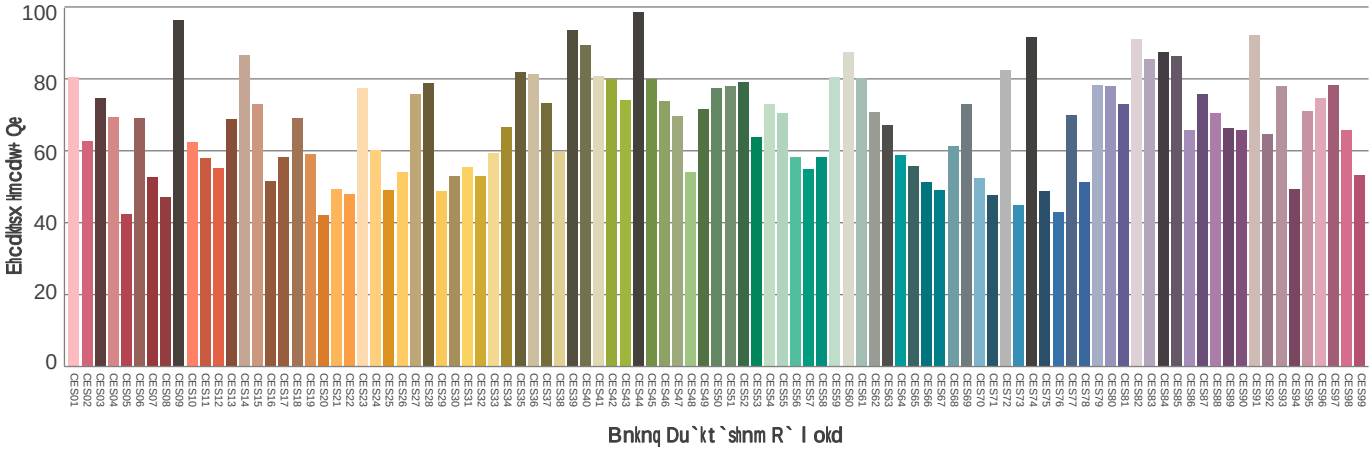
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	65	-19%	-6%
2	65	-16%	12%
3	54	-7%	23%
4	61	8%	23%
5	74	18%	12%
6	79	11%	-6%
7	63	4%	-24%
8	75	-10%	-13%
9	70	-18%	-9%
10	58	-21%	11%
11	57	-13%	25%
12	73	3%	17%
13	82	11%	4%
14	79	11%	-10%
15	67	2%	-21%
16	73	-10%	-16%











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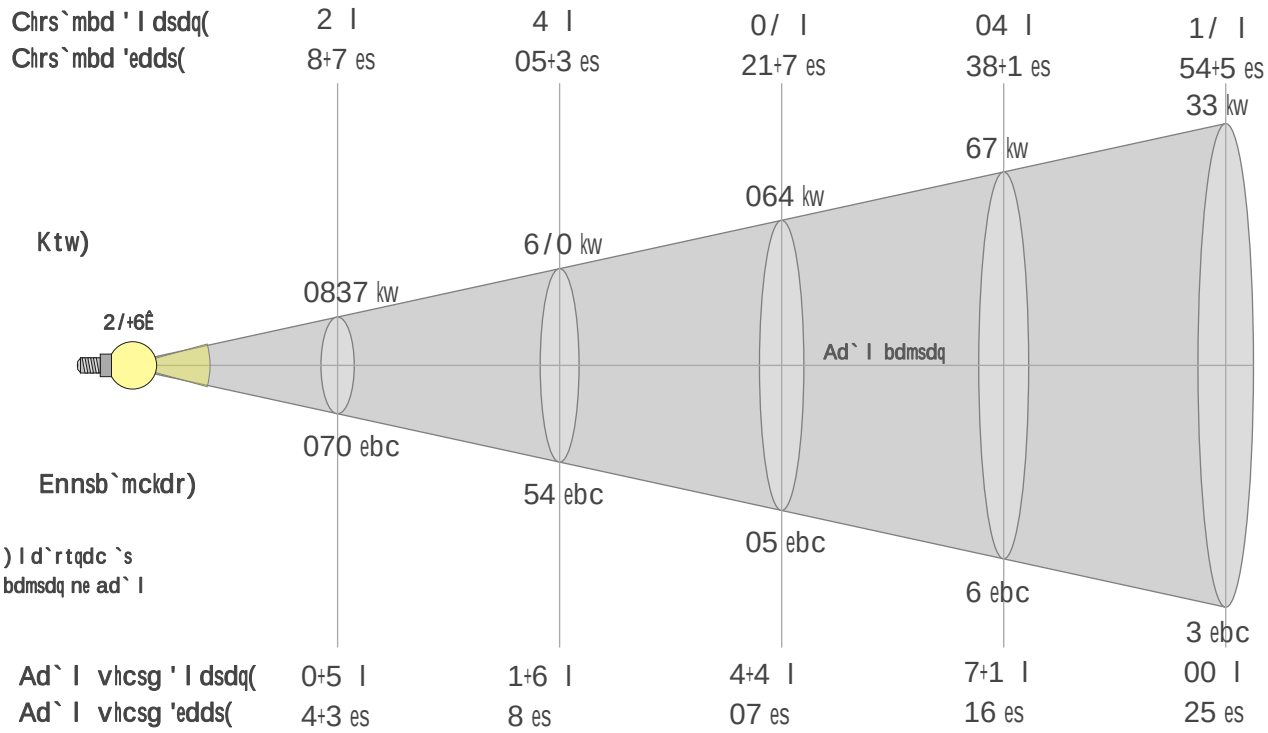
AD@ L CDS@HKR

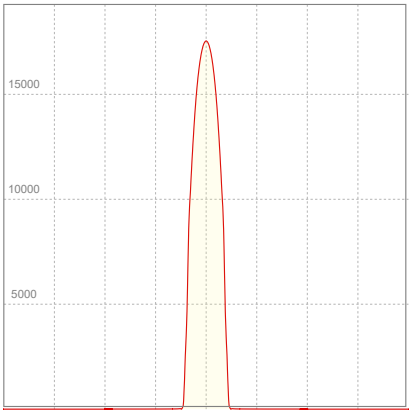
Ad` l `mfkd 4/ $	Ehdkc `mfkd 0/ $	Bts nee `mfkd 1+4 $	Hmsdmrhsx q`shn hm 01/Ê bnmd	Hmsdmrhsx q`shn hm 8/Ê bnmd
2/+6Ê	27+1Ê	3/Ê	88+5 $	88+3 $



AD@ L HMSDMRHSHDR @MC VHCSGR

Chrs`mbd	0 l	1 l	2 l	3 l	4 l	6+4 l	0/ l	04 l	1/ l	14 l	2/ l	3/ l	4/ l
Chrs`mbd	2+2es	5+5es	8+7es	02+0es	05+3es	13+5es	21+7es	38+1es	54+5es	71es	87+3es	020+1es	053es
Ktw	06420kw	3272kw	0837kw	0/85kw	6/0kw	201kw	064kw	67kw	33kw	17kw	08kw	00kw	6kw
Ennsb`mc-	0518ebc	3/6ebc	070ebc	0/1ebc	54ebc	18ebc	05ebc	6ebc	3ebc	2ebc	1ebc	0ebc	0ebc
Ad` l vhc-	/+4 l	0+0 l	0+5 l	1+1 l	1+6 l	3+0 l	4+4 l	7+1 l	00 l	02+6 l	05+4 l	11 l	16+4 l
Ad` l vhc-	0+7es	2+5es	4+3es	6+1es	8es	02+4es	07es	16es	25es	34es	43+0es	61+0es	8/+0es

KHMD@Q CHRSQHATSHNM CH@FQ@L

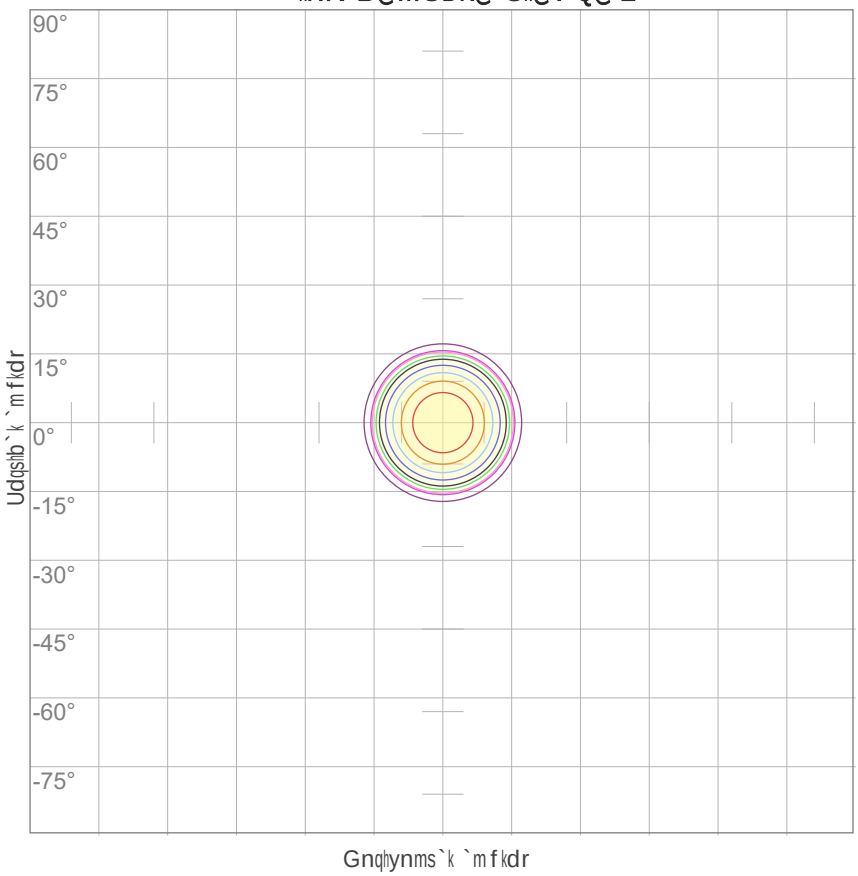


DKDBSQHB@K RODBHEHB@SHNMR

Hmots unks`fd	Hmots btqqdms	Hmots onvdq	Onvdq EB	Deedbhdmbx
112U	0+20@	17/+0V	/+84	02k l .V

HRN CH@FQ@LR

HRN B@MCDK@ CH@FQ@L



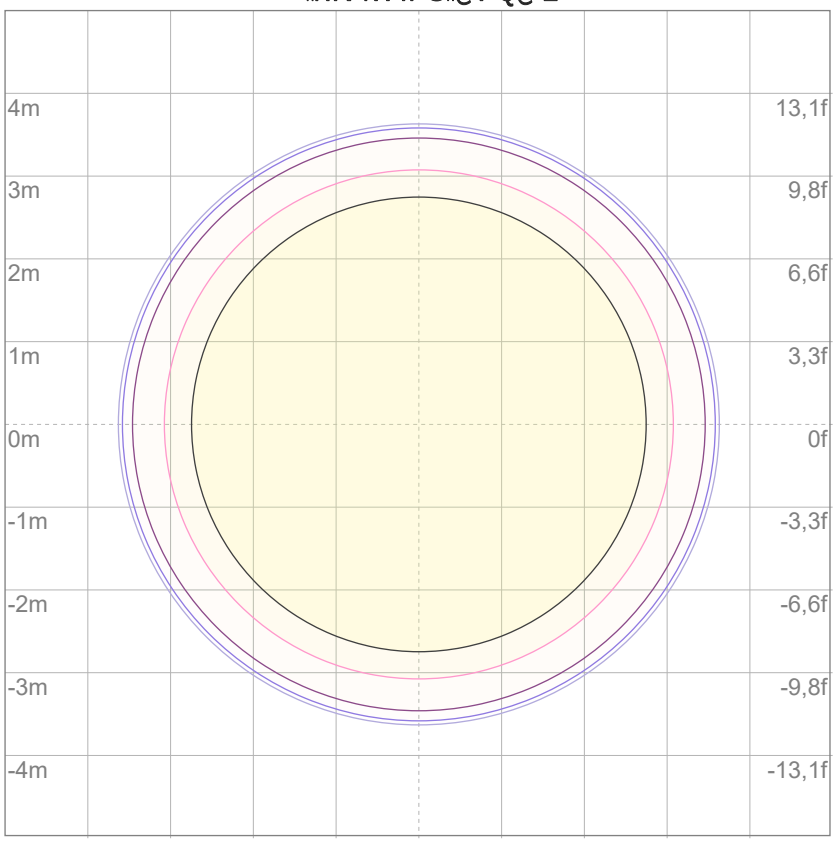
0/$ 0642 bc
1/$ 24/5 bc
2/$ 4148 bc
3/$ 6/01 bc
4/$ 7655 bc
5/$ 0/408 bc
6/$ 01161 bc
7/$ 03/14 bc

Bnmchshnmr9

Mtl adq ne b,ok`mdr9 1

B`mcdk` `s bdmsdq9 06420 bc

HRN KTW CH@FQ@L



2$ 4+15 kw
4$ 7+66 kw
0/$ 06+4 kw
2/$ 41+5 kw
4/$ 76+6 kw

Bnmchshnmr9

Mtl adq ne b,ok`mdr9 1

Ktw `s bdmsdq9 064 kw

Ktw chrsqhatshnm nm ` rtqe`bd vgdmk` lo hr lntmsdc `s 0/ ldsdqr eqn l sgd rtqe`bd-

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Sns`kkt l dm ntsots9

2552 k l

Od`j b`mcdk` ntsots9

017328 bc

Khfgs pt`khsx9

BQH9 52+1

Bnknq sd l odq`stqd9

2131 J

OQNCTBS M@L D9

IDSGXA1//

L D@RTQ@L DMS BNMCHSHNMR9

Ad` l `mfkd9

Ldc Ynn l

S`qfds9

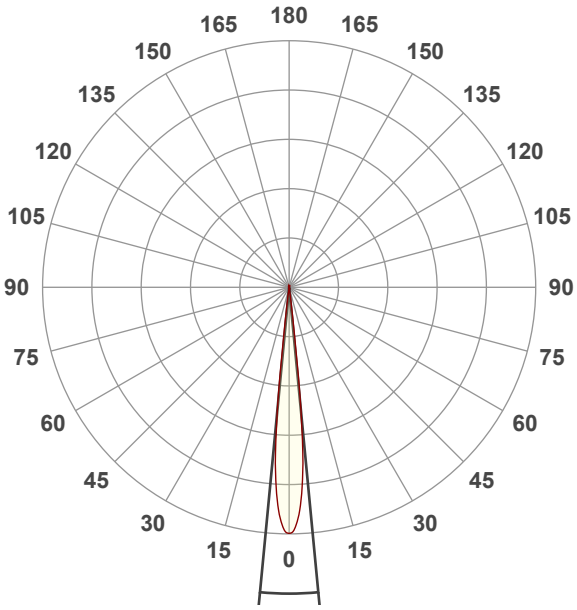
BSN 21//j

Nodq`snq9

R`ku`snqd Fhfkhn

C`sd `mc sh l d9

/3./0.1/13 0692/900

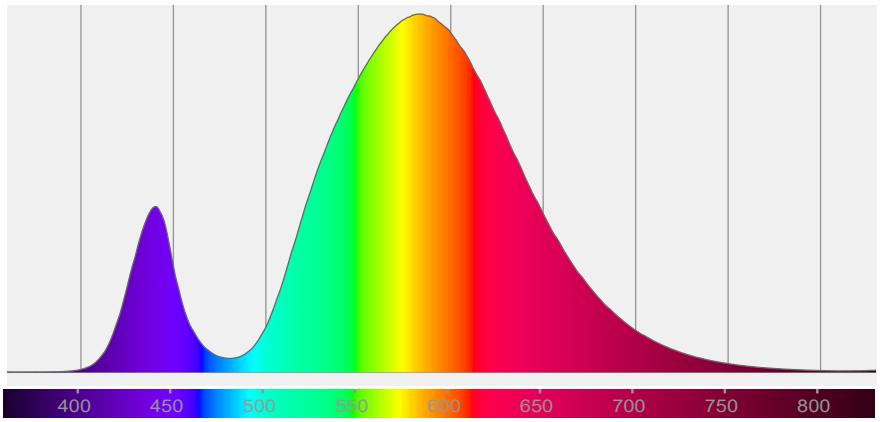


Ad` l `mfkd 4/$9 0/+8Ê

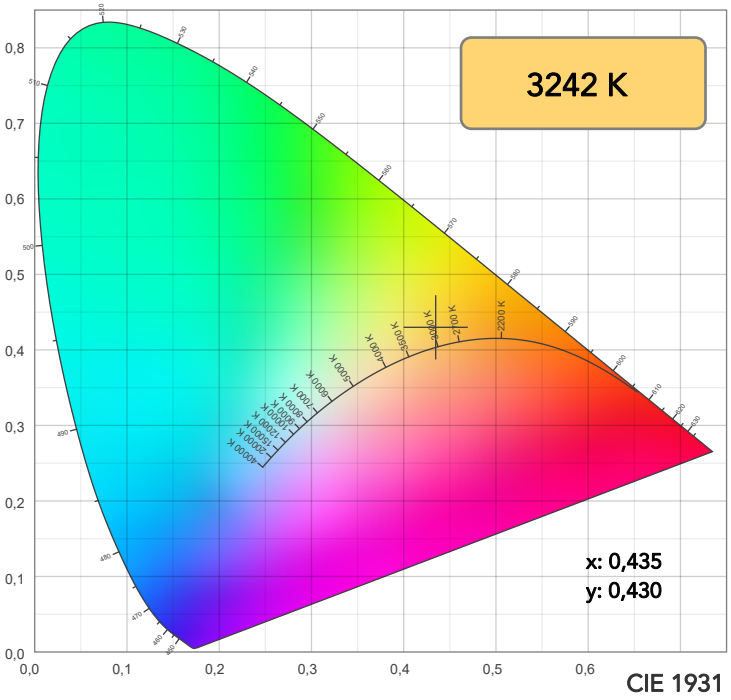
Ehdkc `mfkd 0/$9 03Ê

Bts nee `mfkd 1-4$9 04+0Ê

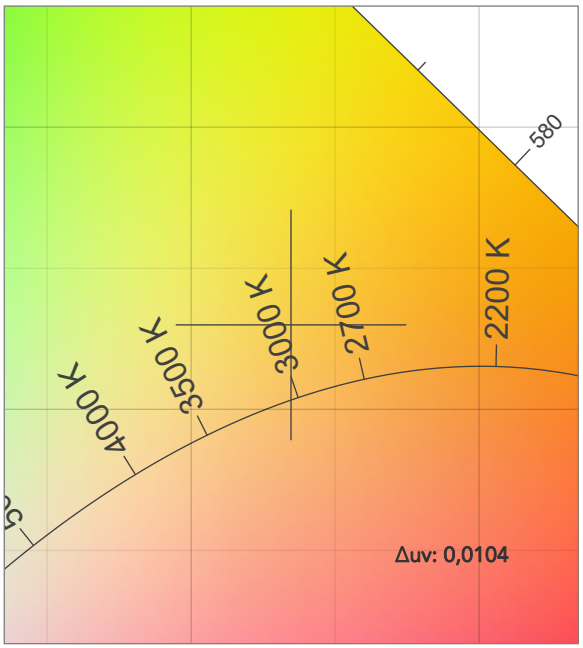
Rodbsq`



COLOR DETAILS

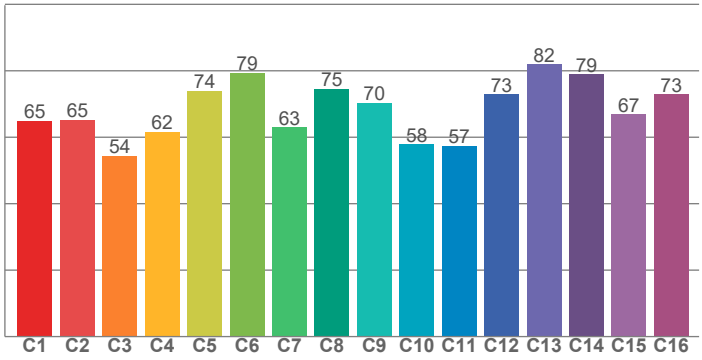


CIE 1931

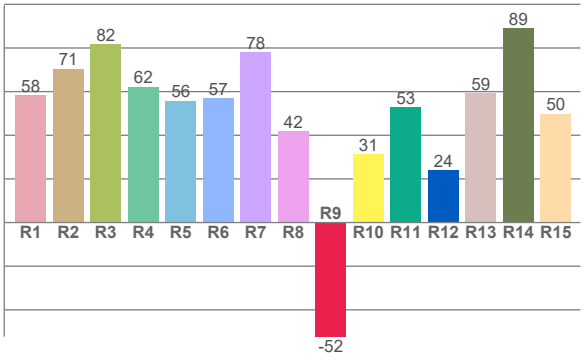


CIE 1931 ZOOM

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

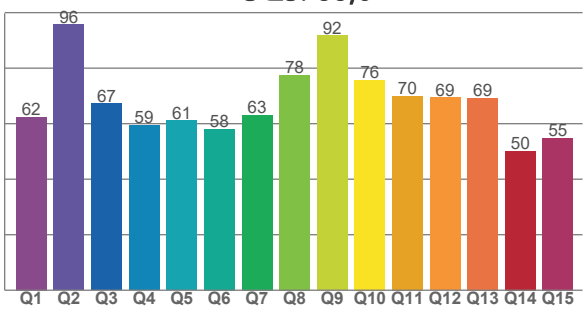
TM30 C values, 16 binned values out of total of 99 C values

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

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PROLiGHTS

SL2/ CDS@HKR

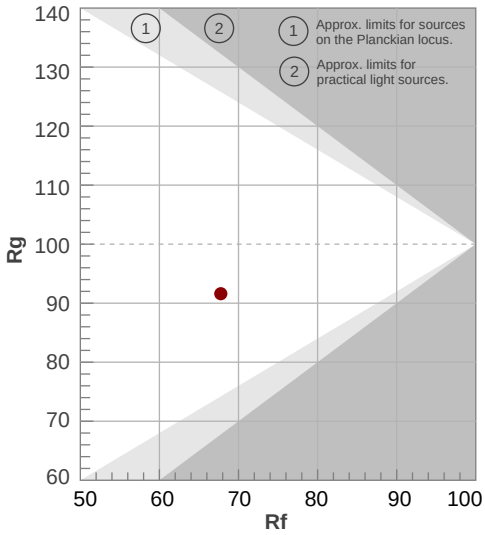
Qe 56+7

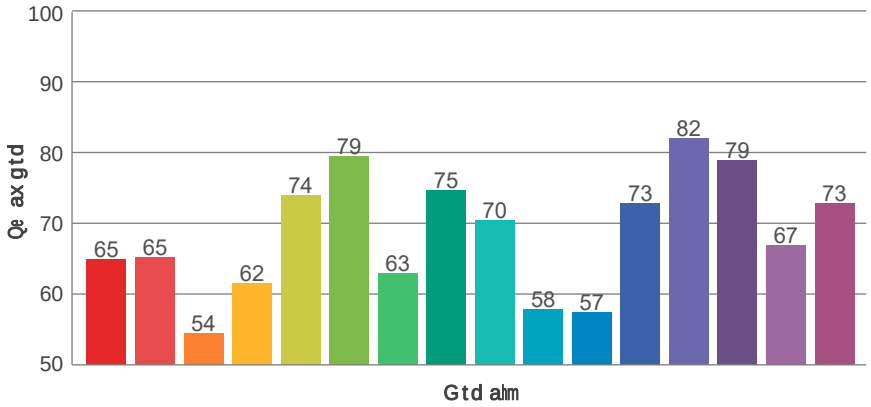
Ehcdkhsx hmcdw Qe

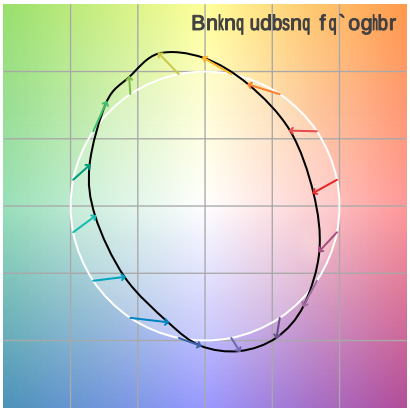
Qf 80+5

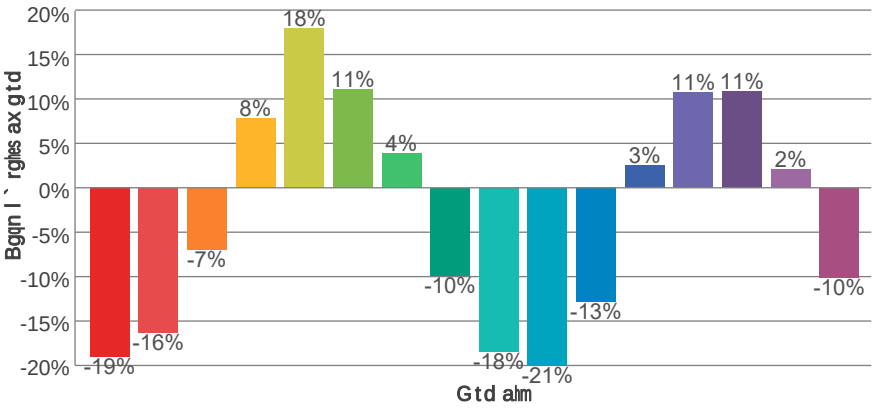
F` l l ts hmcdw

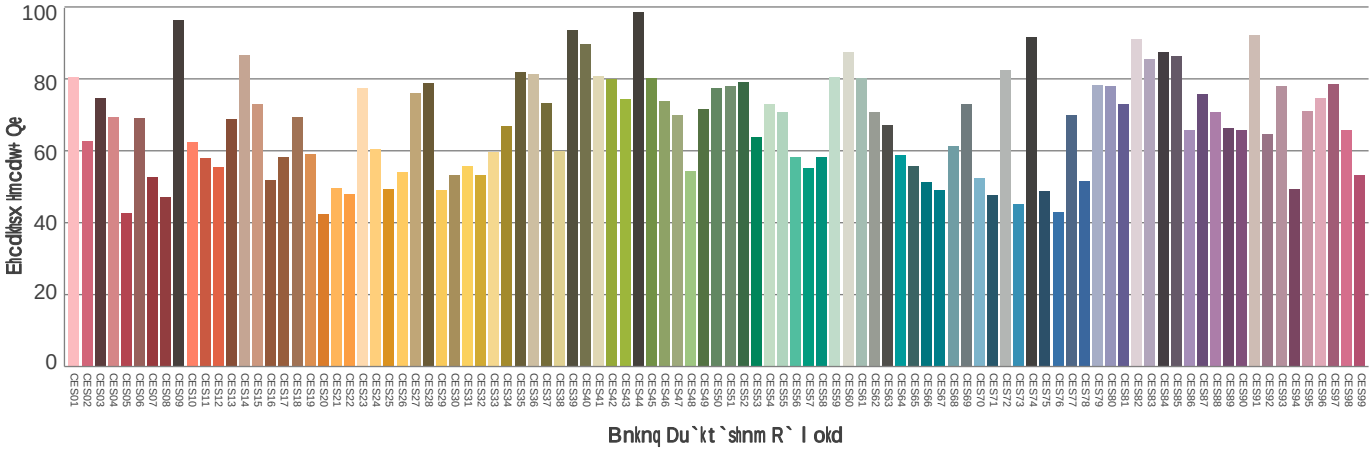
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	65	-19%	-6%
2	65	-16%	12%
3	54	-7%	23%
4	62	8%	23%
5	74	18%	12%
6	79	11%	-6%
7	63	4%	-23%
8	75	-10%	-13%
9	70	-18%	-9%
10	58	-21%	11%
11	57	-13%	25%
12	73	3%	17%
13	82	11%	4%
14	79	11%	-10%
15	67	2%	-21%
16	73	-10%	-16%











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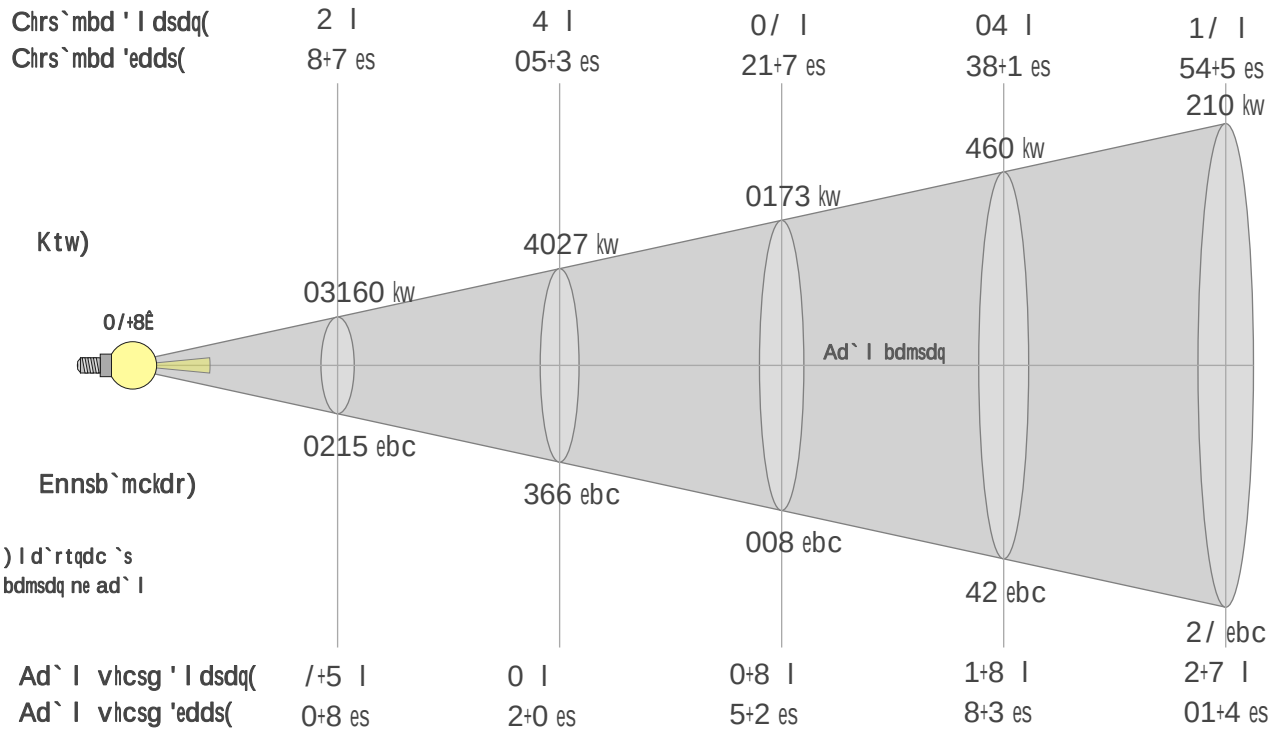
AD@ L CDS@HKR

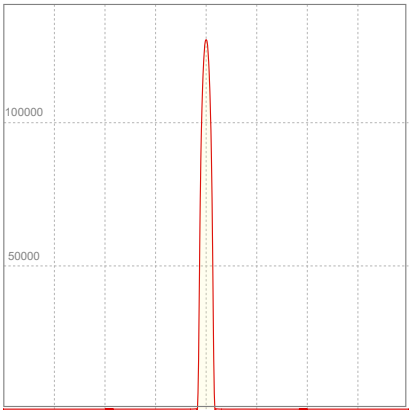
Ad` l `mfkd 4/ $	Ehdkc `mfkd 0/ $	Bts nee `mfkd 1+4 $	Hmsdmrhsx q`shn hm 01/Ê bnmd	Hmsdmrhsx q`shn hm 8/Ê bnmd
0/+8Ê	03Ê	04+0Ê	87+5 $	87+2 $



AD@ L HMSDMRHSHDR @MC VHCSGR

Chrs`mbd	0 l	1 l	2 l	3 l	4 l	6+4 l	0/ l	04 l	1/ l	14 l	2/ l	3/ l	4/ l
Chrs`mbd	2+2es	5+5es	8+7es	02+0es	05+3es	13+5es	21+7es	38+1es	54+5es	71es	87+3es	020+1es	053es
Ktw	017328kw	2100/kw	03160kw	7/16kw	4027kw	1172kw	0173kw	460kw	210kw	1/5kw	032kw	7/kw	40kw
Ennsb`mc-	00821ebc	1872ebc	0215ebc	635ebc	366ebc	101ebc	008ebc	42ebc	2/ebc	08ebc	02ebc	6ebc	4ebc
Ad` l vhc-	/+1 l	/+3 l	/+5 l	/+7 l	0 l	0+3 l	0+8 l	1+8 l	2+7 l	3+7 l	4+6 l	6+6 l	8+5 l
Ad` l vhc-	/+5es	0+2es	0+8es	1+4es	2+0es	3+6es	5+2es	8+3es	01+4es	04+6es	07+7es	14+0es	20+3es

KHMD@Q CHRSQHATSHNM CH@FQ@ L

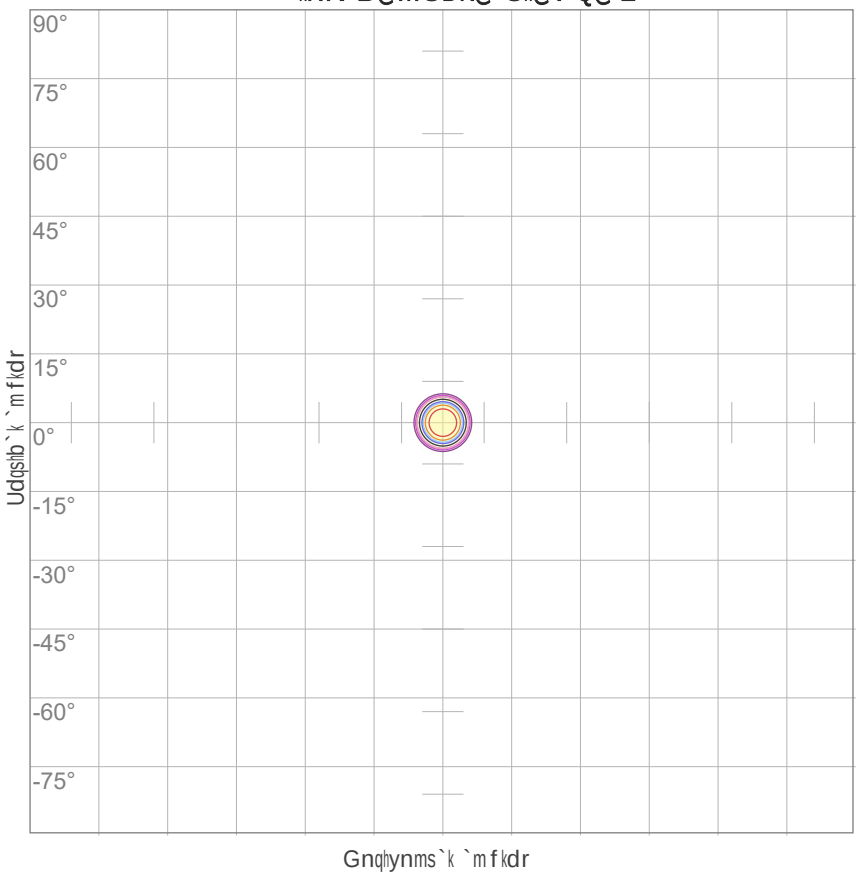


DKDBSQHB@K RODBHEHB@SHNMR

Hmots unks`fd	Hmots btqqdms	Hmots onvdq	Onvdq EB	Deedbhdmbx
113U	0+20@	17/+2V	/+84	02k l . V

HRN CH@FQ@LR

HRN B@MCDK@ CH@FQ@L



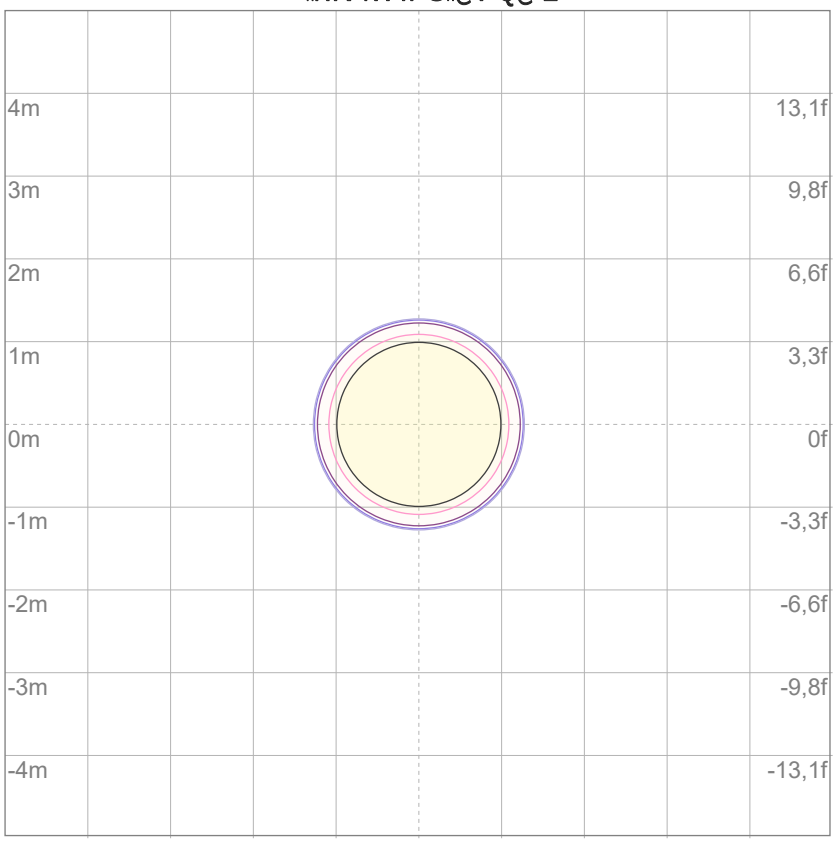
0/$	01733 bc
1/$	14577 bc
2/$	27421 bc
3/$	40265 bc
4/$	53108 bc
5/$	66/52 bc
6/$	788/6 bc
7/$	0/1640 bc

Bnmchshnmr9

Mtladq ne b,ok`mdr9 1

B`mcdk` `s bdmsdq9 017328 bc

HRN KTW CH@FQ@L



2$	27+4 kw
4$	53+1 kw
0/$	017 kw
2/$	274 kw
4/$	531 kw

Bnmchshnmr9

Mtladq ne b,ok`mdr9 1

Ktw `s bdmsdq9 0173 kw

Ktw chrsqhatshnm nm ` rtqe`bd vgdmk` lo hr lntmsdc `s 0/ ldsdqr eqn l sgd rtqe`bd-

Sns`kkt l dm ntsots9

1570 k l

Od`j b`mcdk` ntsots9

656122 bc

Khfgs pt`khsx9

BQH9 52+2

Bnknq sd l odq`stqd9

2107 J

OQNCTBS M@L D9

IDSGXA1//

L D@RTQ@L DMS BNMCHSHNMR9

Ad` l `mfkd9

L hm Ynn l

S`qfds9

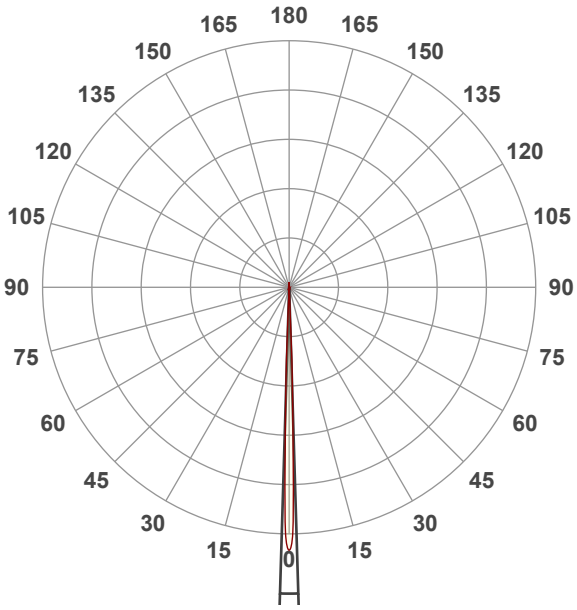
BSN 21//j

Nodq`snq9

R`ku`snqd Fhfkhn

C`sd `mc sh l d9

/3./0.1/13 04924905

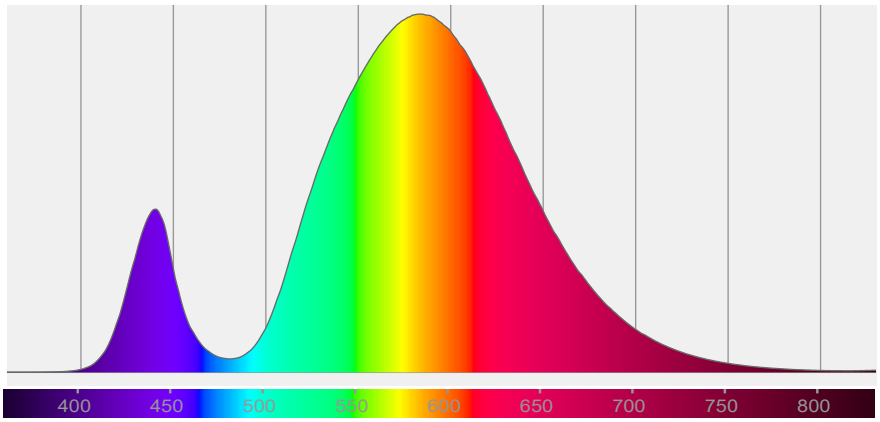


Ad` l `mfkd 4/$9 2+3Ê

Ehdkc `mfkd 0/$9 4+2Ê

Bts nee `mfkd 1-4$9 4+6Ê

Rodbsq`



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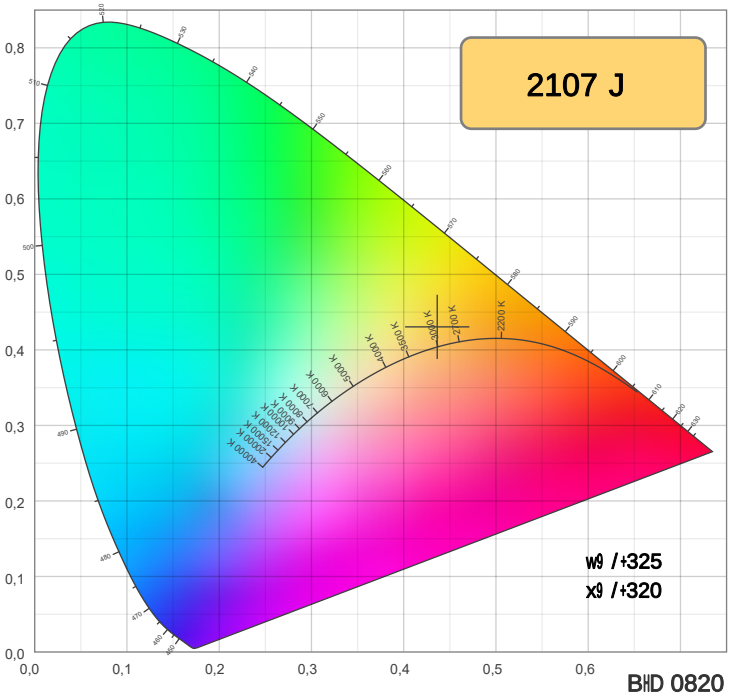
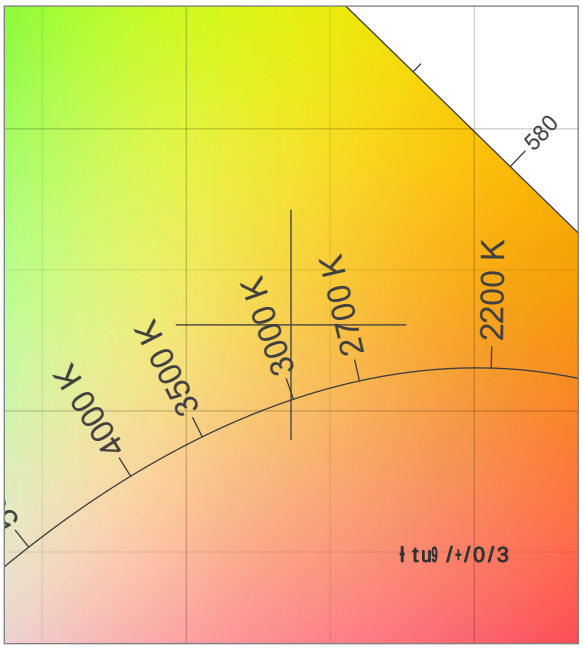
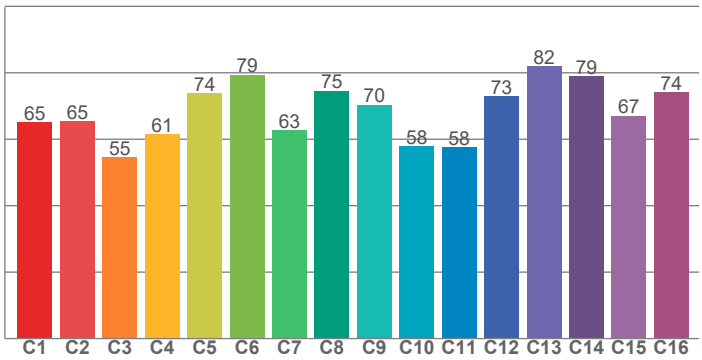


BHD 0820

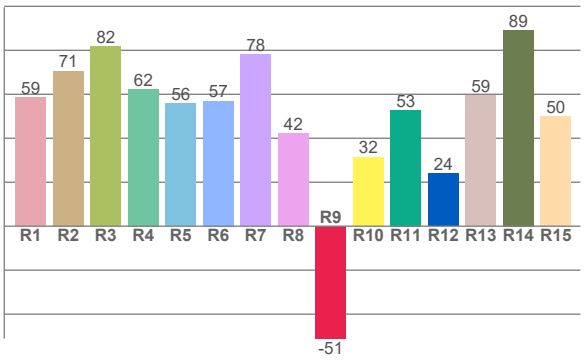


BHD 0820 YNN L

SL2/9 56+7



BQH9 52+2 'Q0,Q7(



BQH Q u`ktdr+ nmkx Q0,Q7 `qd trdc sn b`kbtk`sd elm`k BQH u`ktd

Q0	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q0/	Q00	Q01	Q02	Q03	Q04
47+4	6/+6	70+6	51+3	44+8	46+/	67+0	31+0	,40+0	20+4	41+8	12+8	48+3	78+0	4/+0

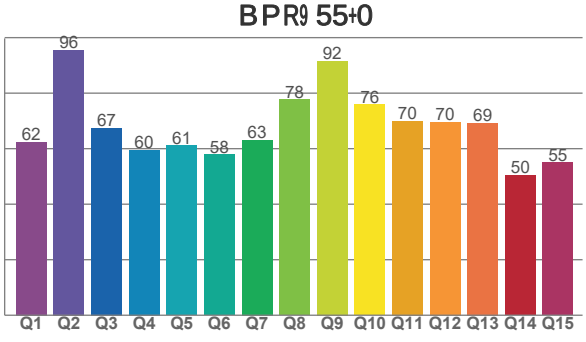
SL2/ B u`ktdr+ 05 almmdc u`ktdr nts ne sns`k ne 88 B u`ktdr

B0	B1	B2	B3	B4	B5	B6	B7	B8	B0/	B00	B01	B02	B03	B04	B05
54+0	54+2	43+5	50+4	62+8	68+3	51+6	63+4	6/+2	46+8	46+5	61+8	71+/	68+/	56+/	63+0

BPR P u`ktdr

P0	P1	P2	P3	P4	P5	P6	P7	P8	P0/	P00	P01	P02	P03	P04
51+3	84+5	56+3	48+4	50+0	46+8	52+1	66+5	80+6	64+7	6/+/	58+5	58+2	4/+3	44+/

BPR9 55+0



BNKNQ O@Q@ L DSDQR

Bnlnq sd l odq`stqd	Bnlnq qdmcdqlmf lmcdw	Qdc bn l onmdms	Bnlnq elcdllex	Bnlnq f ` l ts	Bnlnq pt `llex rb`ld	Sdkdulrlnm klf gslmf lmcdw	Bnlnq bnnqclm`sd bld 0820	Bnlnq bnnqclm`sd bld 0820	Bnlnq clul`slnm eqn l al`bj ancx
BBS	BQH	BQH Q8	SL2/ Qe	SL2/ Qf	BPR	SKBH	w	x	ł tu
2107 J	52+2	,40+0	56+7	80+5	55+0	24	/+325	/+320	/+/0/3

PROLiGHTS

SL2/ CDS@HKR

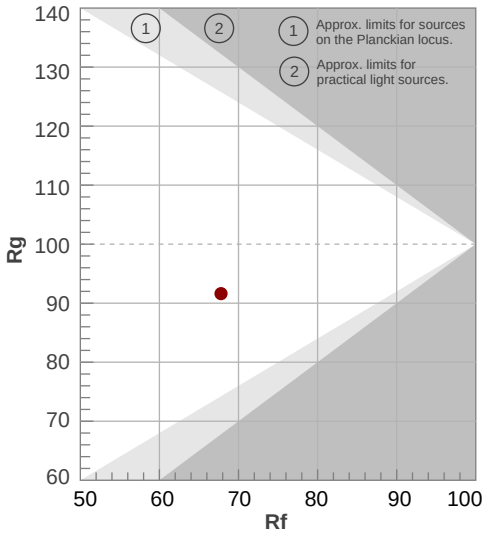
Qe 56+7

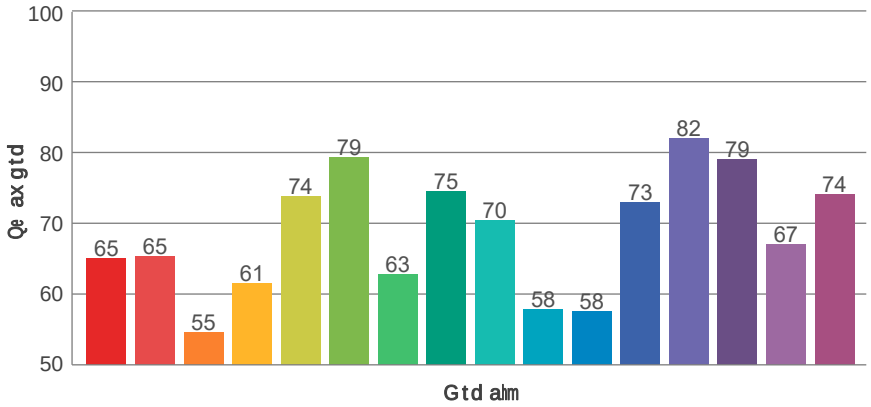
Ehcdkhsx hmcdw Qe

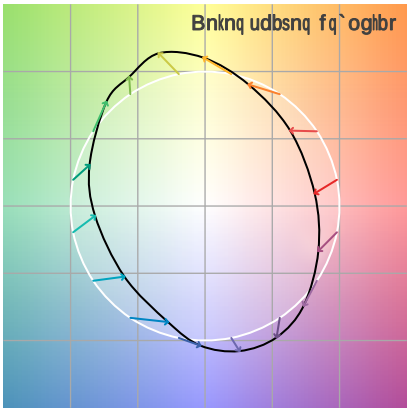
Qf 80+5

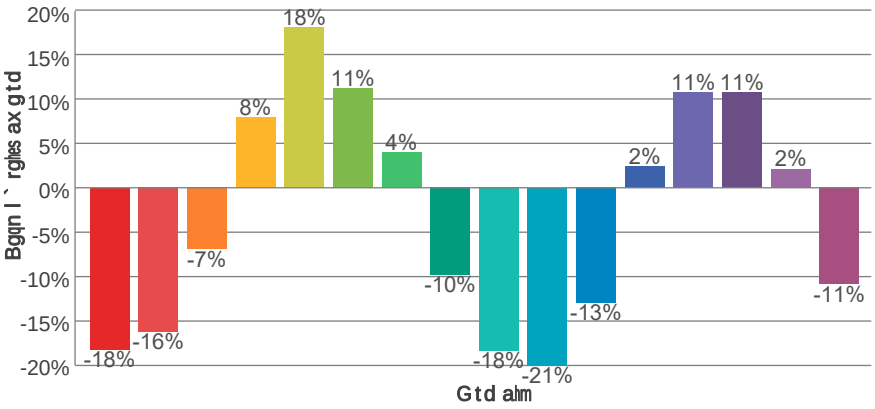
F` l l ts hmcdw

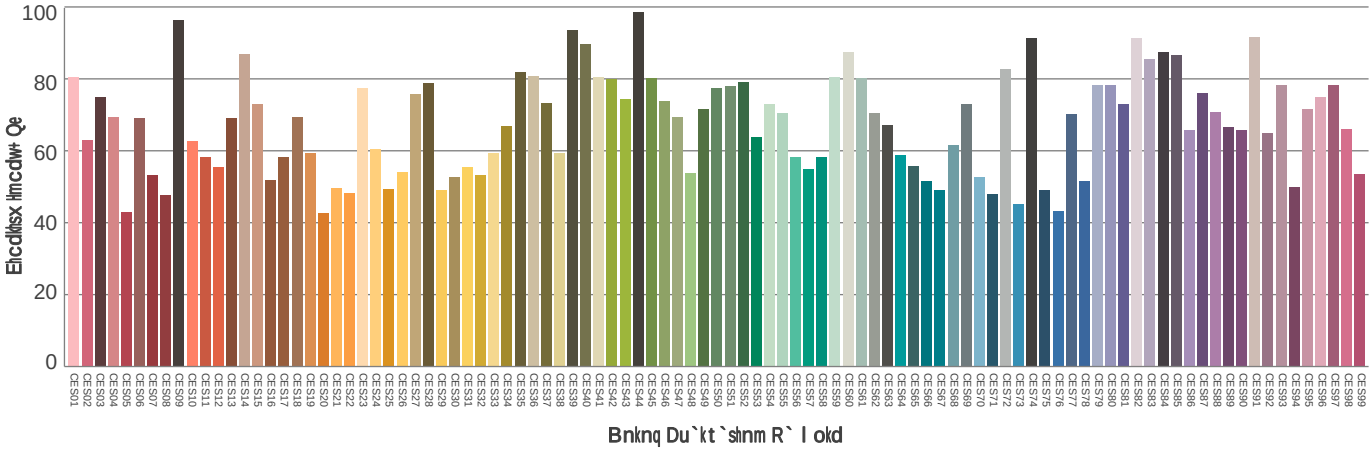
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	65	-18%	-7%
2	65	-16%	11%
3	55	-7%	23%
4	61	8%	23%
5	74	18%	12%
6	79	11%	-6%
7	63	4%	-24%
8	75	-10%	-13%
9	70	-18%	-9%
10	58	-21%	10%
11	58	-13%	25%
12	73	2%	17%
13	82	11%	4%
14	79	11%	-10%
15	67	2%	-21%
16	74	-11%	-16%











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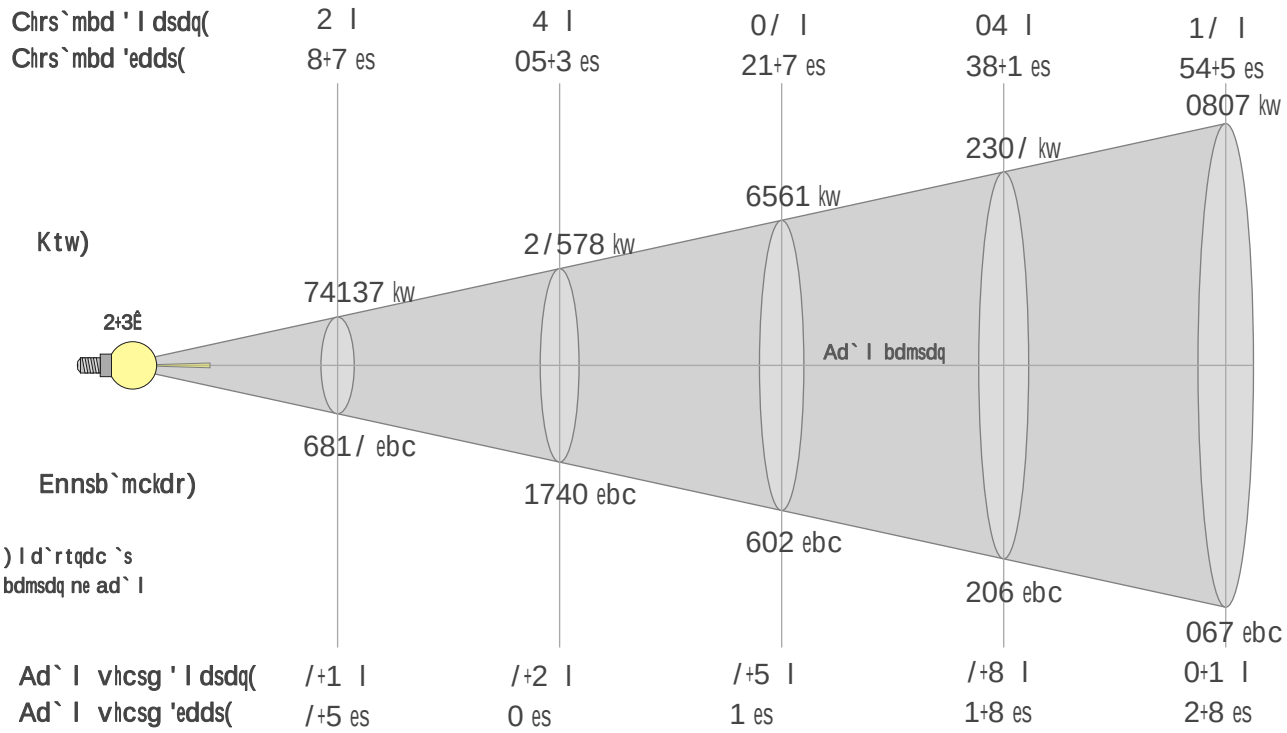
AD@ L CDS@HKR

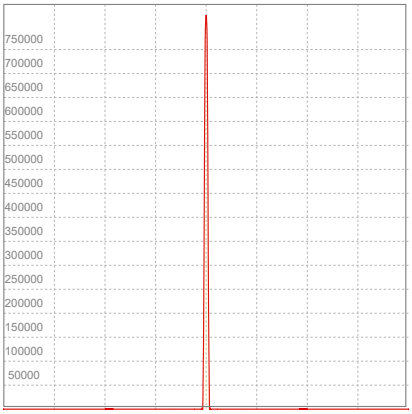
Ad` l `mfkd 4/ $	Ehdkc `mfkd 0/ $	Bts nee `mfkd 1+4 $	Hmsdmrhsx q`shn hm 01/Ê bnmd	Hmsdmrhsx q`shn hm 8/Ê bnmd
2+3Ê	4+2Ê	4+6Ê	87+3 $	86+8 $



AD@ L HMSDMRHSHDR @MC VHCSGR

Chrs`mbd	0 l	1 l	2 l	3 l	4 l	6+4 l	0/ l	04 l	1/ l	14 l	2/ l	3/ l	4/ l
Chrs`mbd	2+2es	5+5es	8+7es	02+0es	05+3es	13+5es	21+7es	38+1es	54+5es	71es	87+3es	020+1es	053es
Ktw	656122kw	0807/7kw	74137kw	36841kw	2/578kw	0253/kw	6561kw	230/kw	0807kw	0117kw	741kw	37/kw	2/6kw
Ennsb`mc-	60167ebc	0671/ebc	681/ebc	3344ebc	1740ebc	0156ebc	602ebc	206ebc	067ebc	003ebc	68ebc	34ebc	18ebc
Ad` l vhc-	/+0 l	/+0 l	/+1 l	/+1 l	/+2 l	/+3 l	/+5 l	/+8 l	0+1 l	0+4 l	0+7 l	1+3 l	2 l
Ad` l vhc-	/+1es	/+3es	/+5es	/+7es	0es	0+4es	1es	1+8es	2+8es	3+8es	4+8es	6+7es	8+7es

KHMD@Q CHRSQHATSHNM CH@FQ@ L

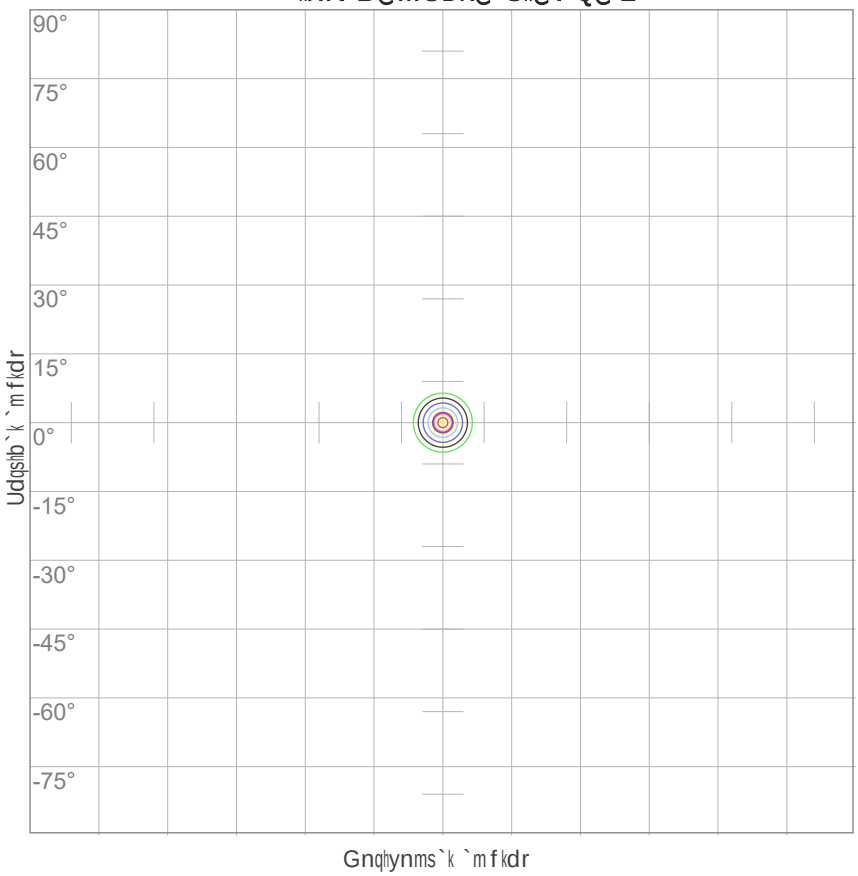


DKDBSQHB@K RODBHEHB@SHNMR

Hmots unks`fd	Hmots btqqdms	Hmots onvdq	Onvdq EB	Deedbhdmbx
114U	0+21@	172+4V	/+84	8k l .V

HRN CH@FQ@LR

HRN B@MCDK@ CH@FQ@L



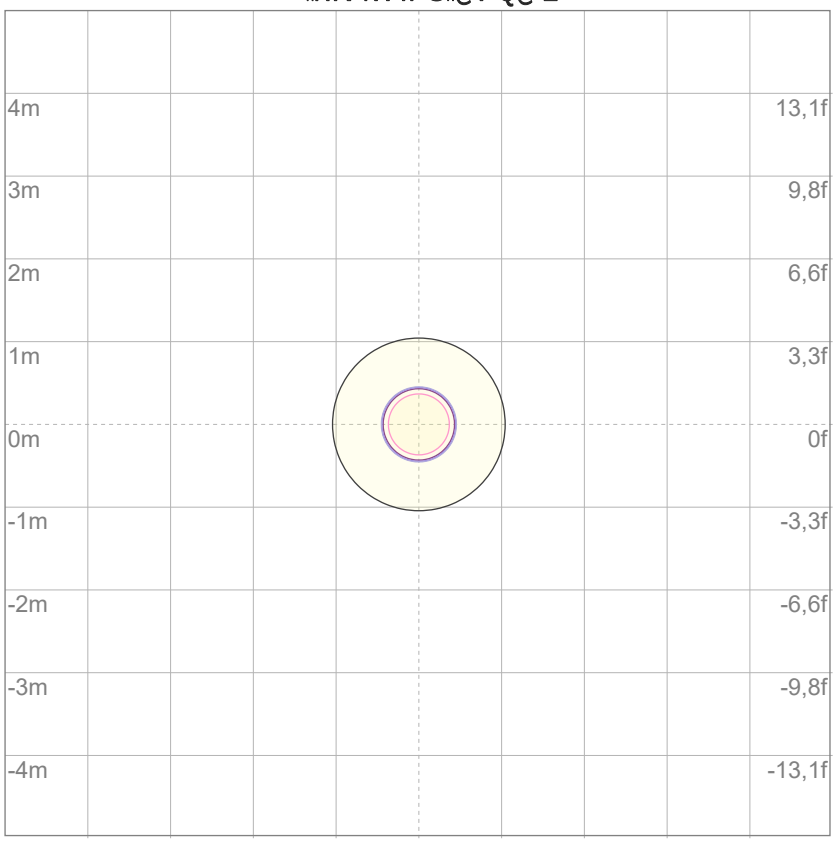
0/$	65612 bc
1/$	042336 bc
2/$	12/06/ bc
3/$	2/5782 bc
4/$	272506 bc
5/$	35/23/ bc
6/$	426/52 bc
7/$	502675 bc

Bnmchshnmr9

Mtl adq ne b,ok`mdr9 1

B`mcdk` `s bdmsdq9 656122 bc

HRN KTW CH@FQ@L



2$	12/ kw
4$	273 kw
0/$	656 kw
2/$	12/1 kw
4/$	2725 kw

Bnmchshnmr9

Mtl adq ne b,ok`mdr9 1

Ktw `s bdmsdq9 6561 kw

Ktw chrsqhatshnm nm ` rtqe`bd vgdmk` lo hr lntmsdc `s 0/ ldsdqr eqn l sgd rtqe`bd-

Total lumen output:

4859 lm

Peak candela output:

23265 cd

Light quality:

CRI: 84,6

Color temperature:

6674 K

PRODUCT NAME:

JETHYB200

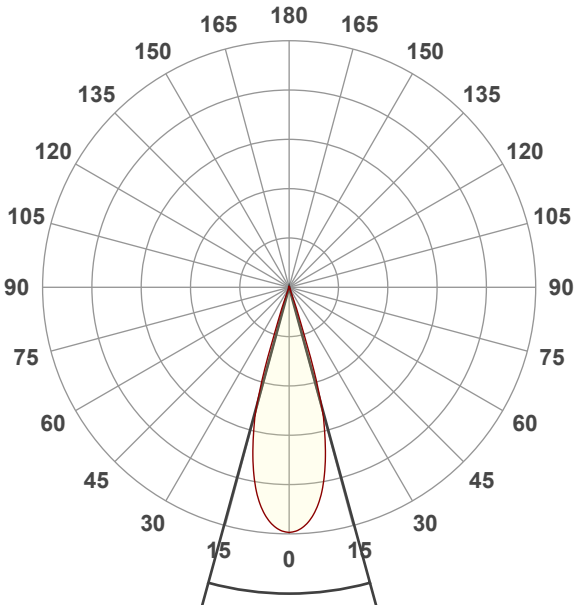
MEASURAMENT CONDITIONS:

Beam angle:
Max Zoom

Target:
6000K

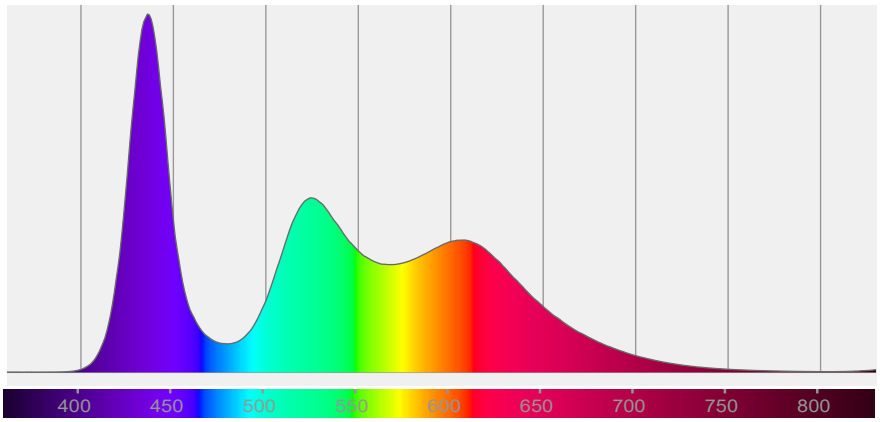
Operator:
Salvatore Giglio

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



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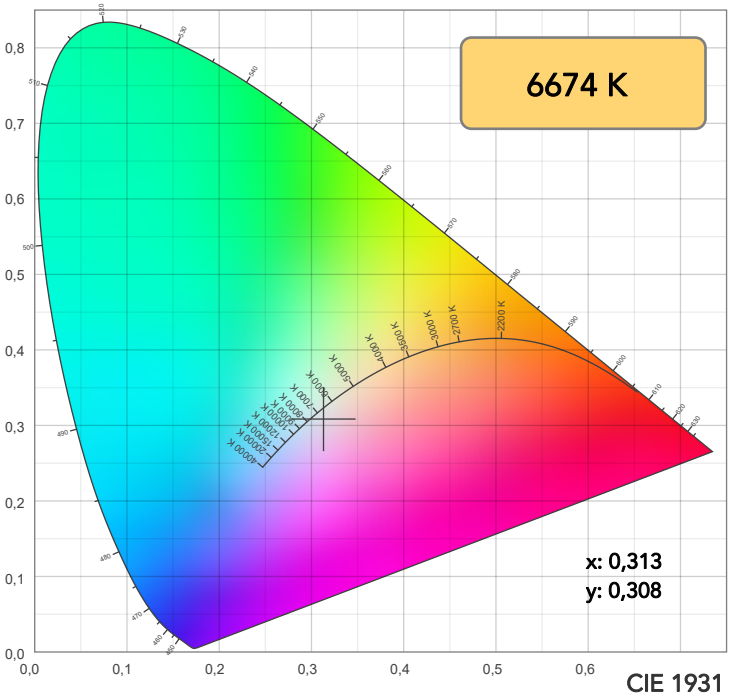
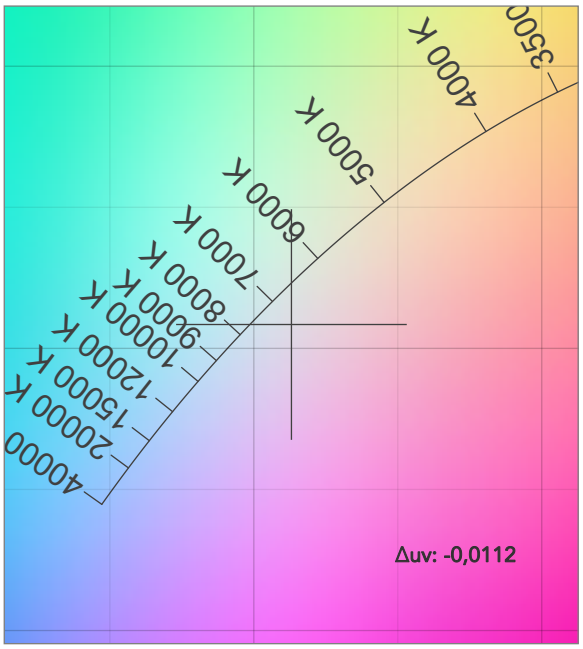
COLOR DETAILS

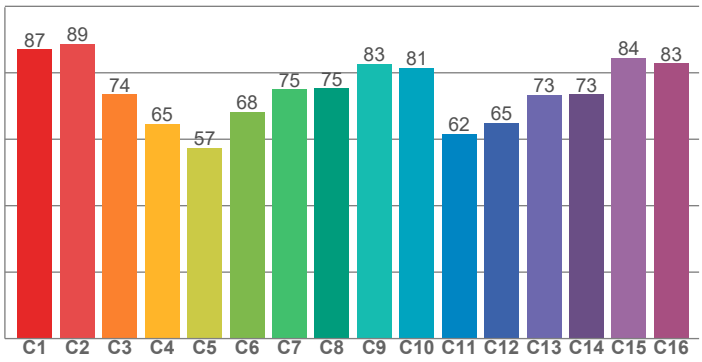


CIE 1931

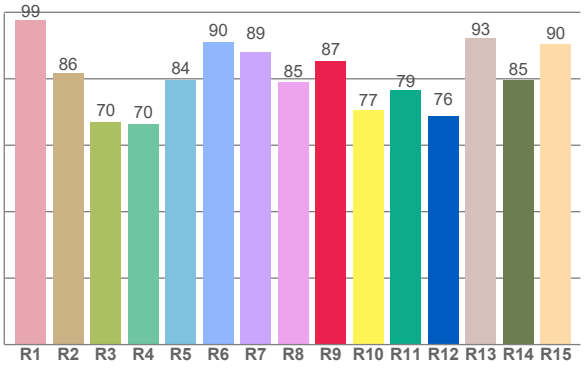


CIE 1931 ZOOM

TM30: 74,1



CRI: 84,7 (R1-R8)



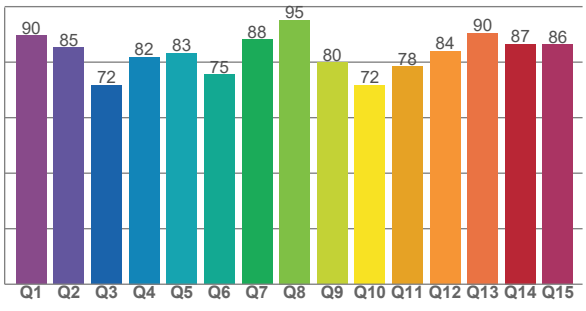
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
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: 81,9



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

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	84,7	87,3	74,1	110,3	81,9	58	0,313	0,308	-0,0112

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TM30 DETAILS

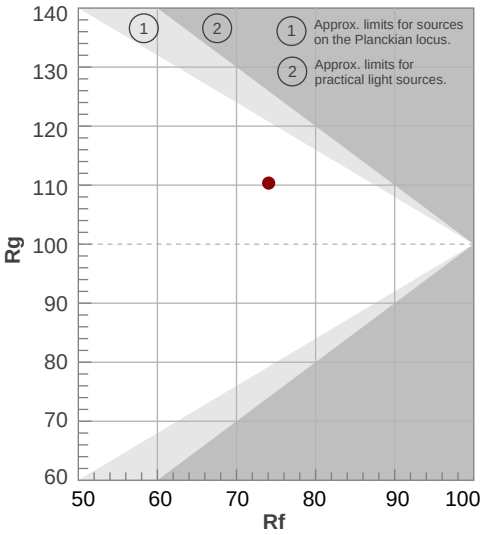
Rf 74,1

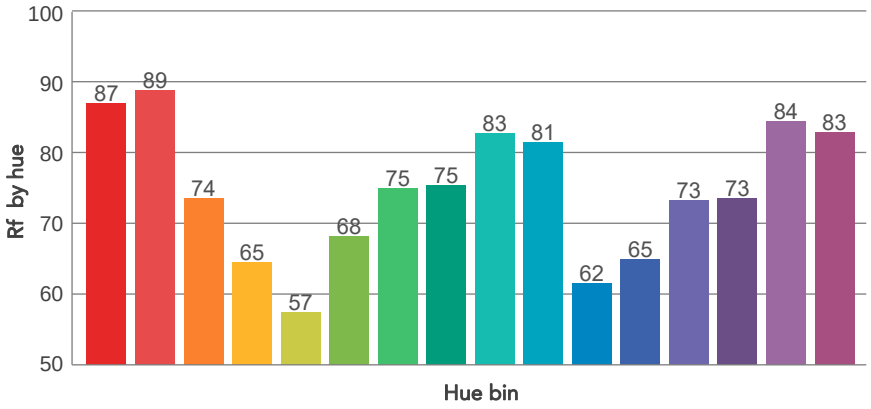
Fidelity index Rf

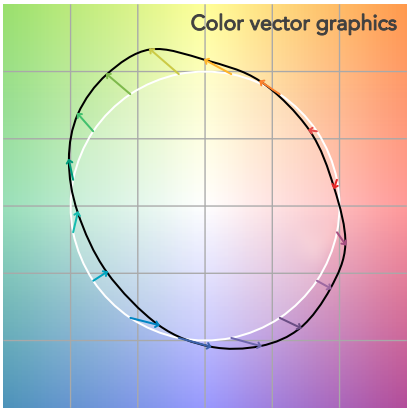
Rg 110,3

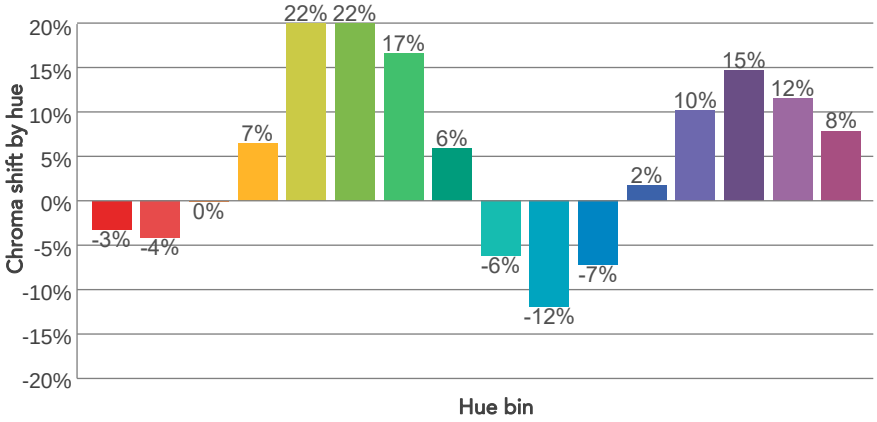
Gammut index

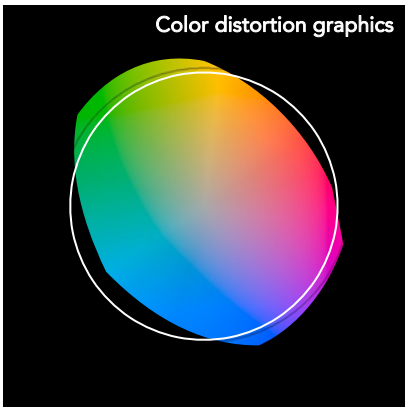
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	87	-3%	-5%
2	89	-4%	4%
3	74	0%	17%
4	65	7%	21%
5	57	22%	17%
6	68	22%	6%
7	75	17%	-4%
8	75	6%	-14%
9	83	-6%	-14%
10	81	-12%	0%
11	62	-7%	20%
12	65	2%	24%
13	73	10%	20%
14	73	15%	9%
15	84	12%	1%
16	83	8%	-8%

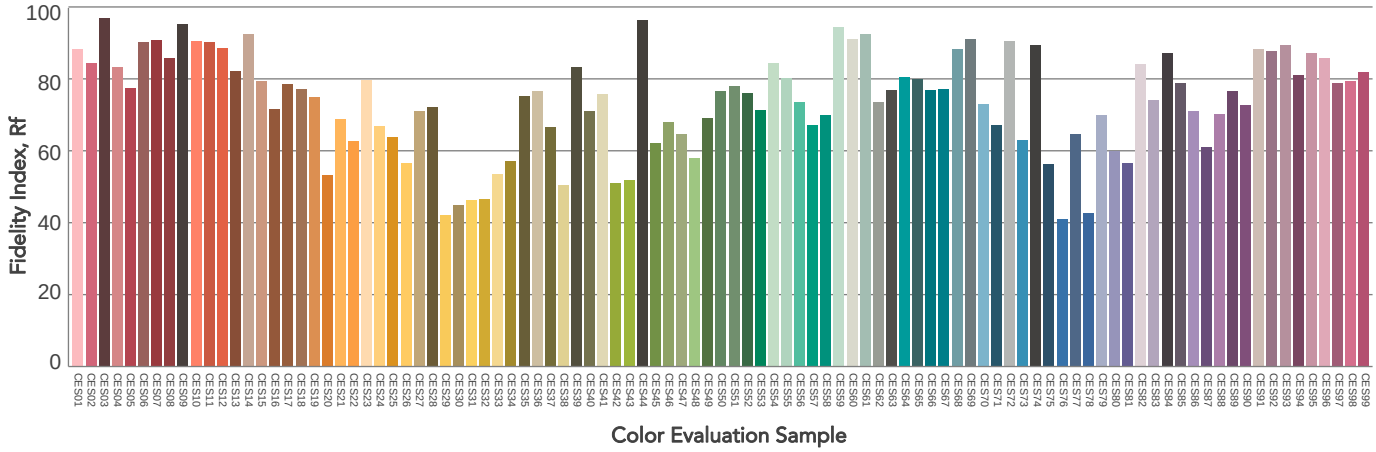












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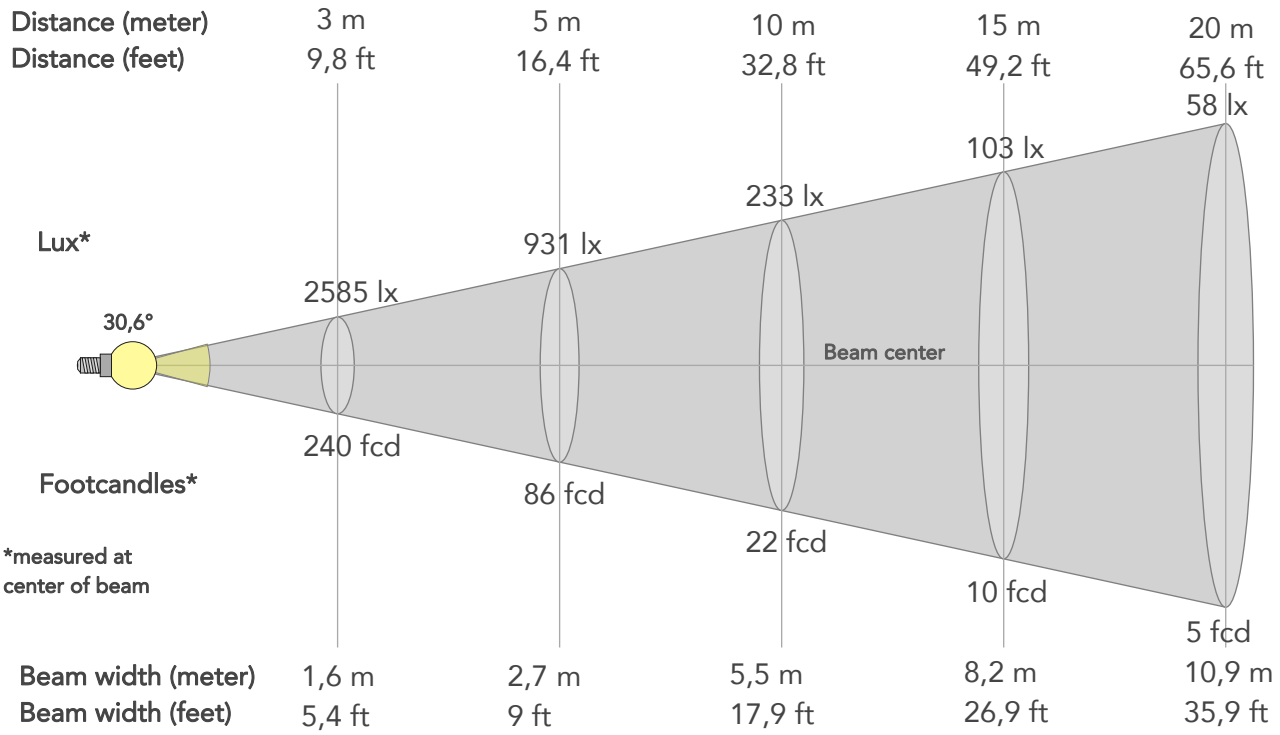
BEAM DETAILS

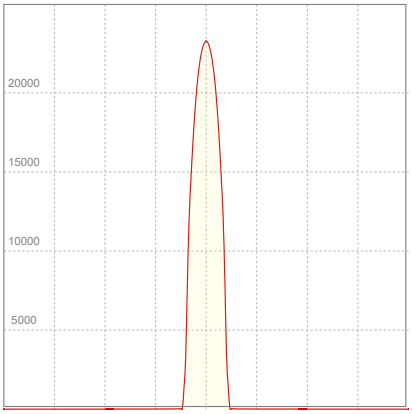
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30,6°	37,9°	41,1°	99,4%	99,2%



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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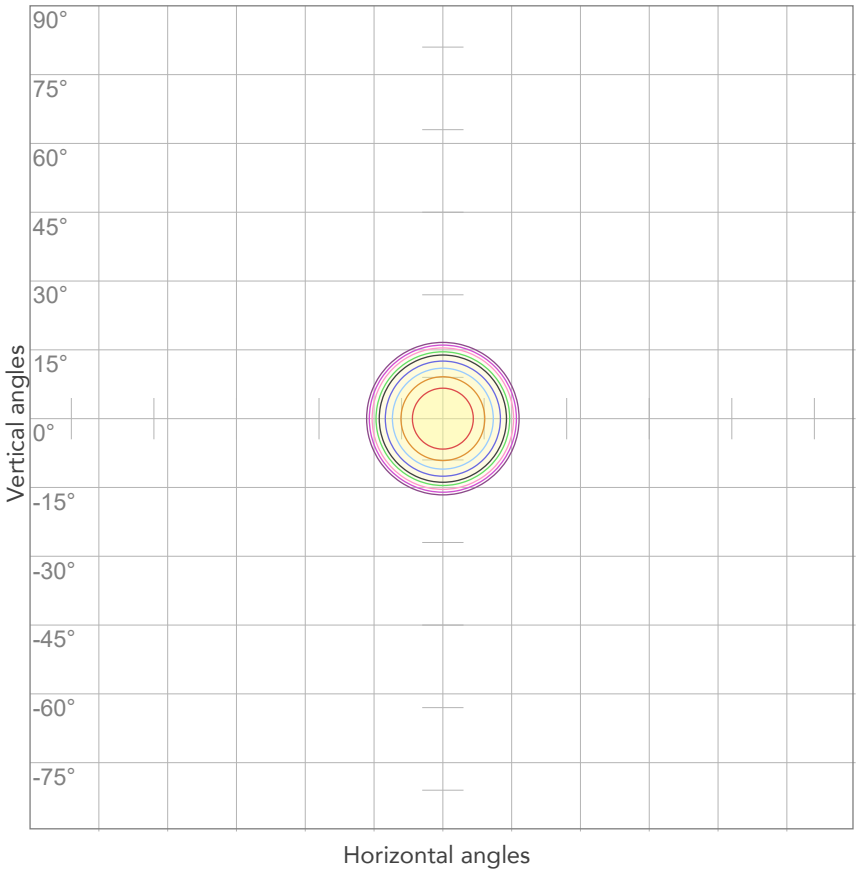
ISO DIAGRAMS

ISO CANDELA DIAGRAM



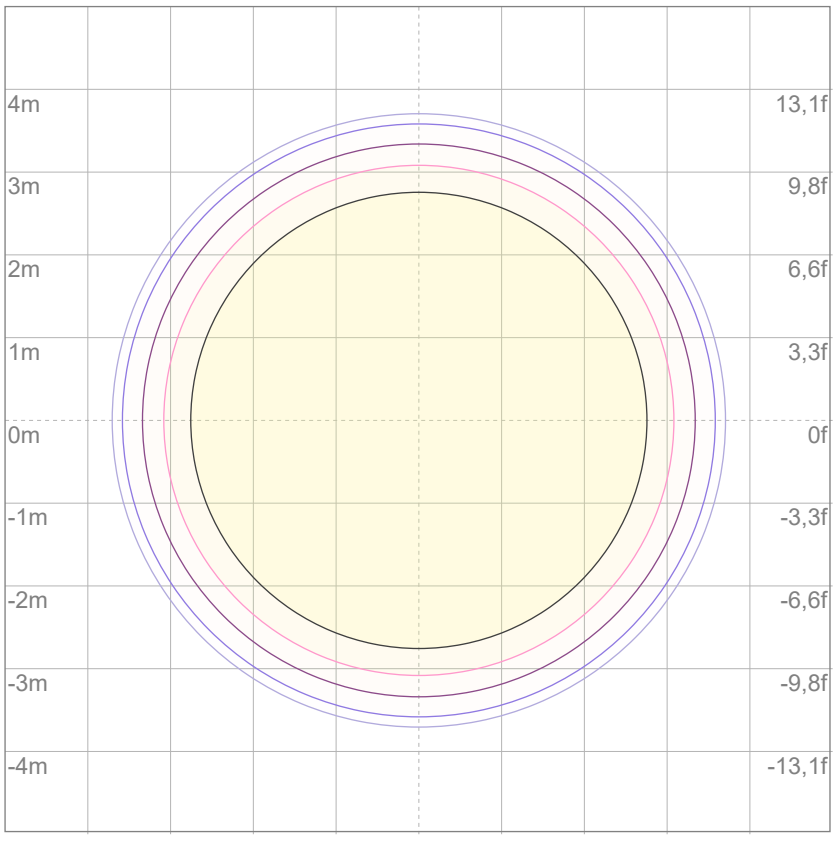
10%	2327 cd
20%	4653 cd
30%	6980 cd
40%	9306 cd
50%	11633 cd
60%	13959 cd
70%	16286 cd
80%	18612 cd

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.

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Total lumen output:

4814 lm

Peak candela output:

170773 cd

Light quality:

CRI: 84,6

Color temperature:

6685 K

PRODUCT NAME:

JETHYB200

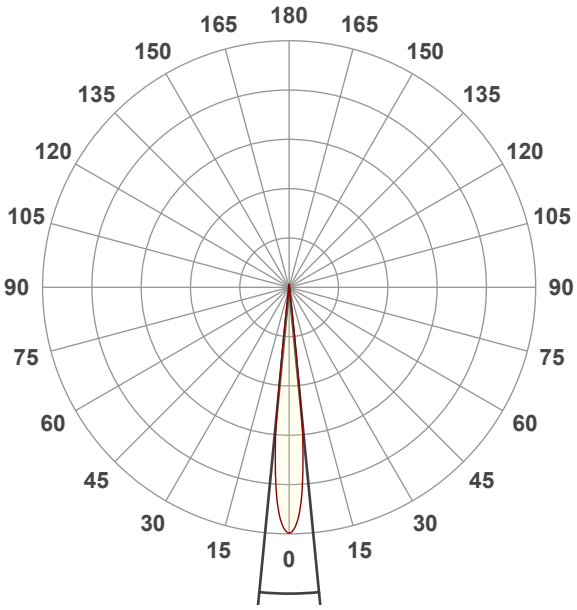
MEASURAMENT CONDITIONS:

Beam angle:
Med Zoom

Target:
6000K

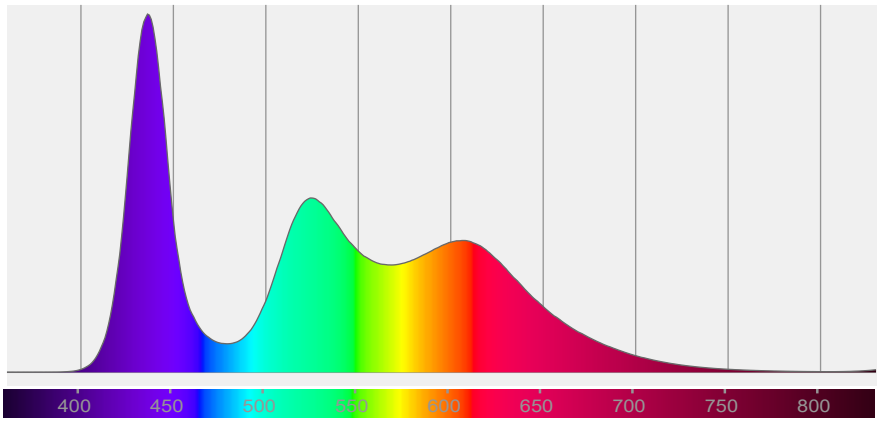
Operator:
Salvatore Giglio

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

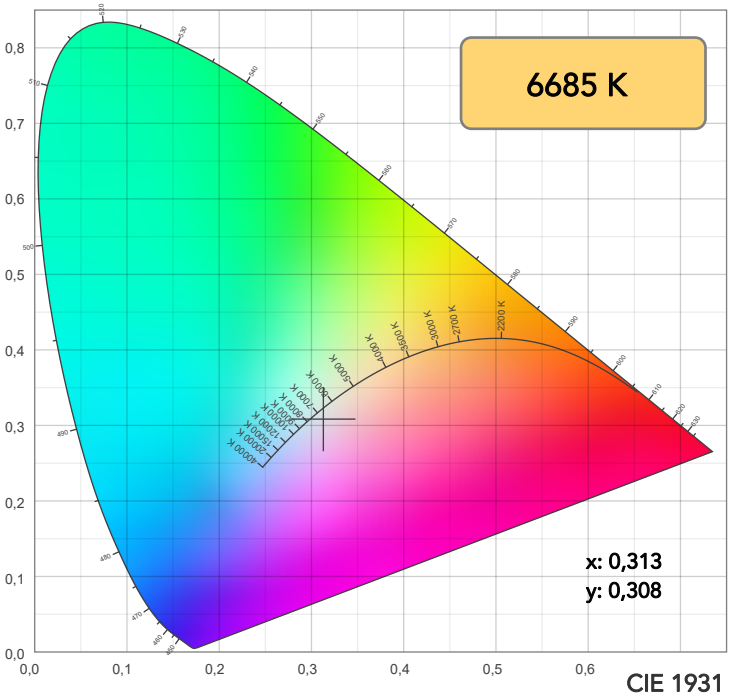


Beam angle 50%: 11,2°
Field angle 10%: 13,9°
Cut off angle 2.5%: 14,7°

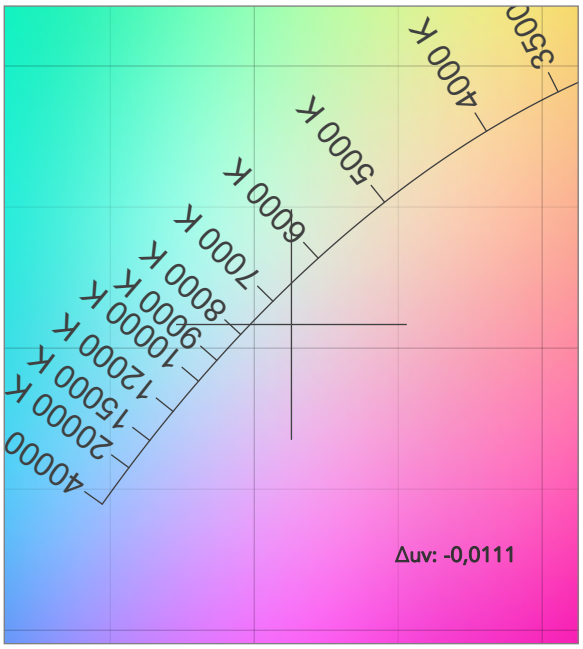
Spectra



COLOR DETAILS

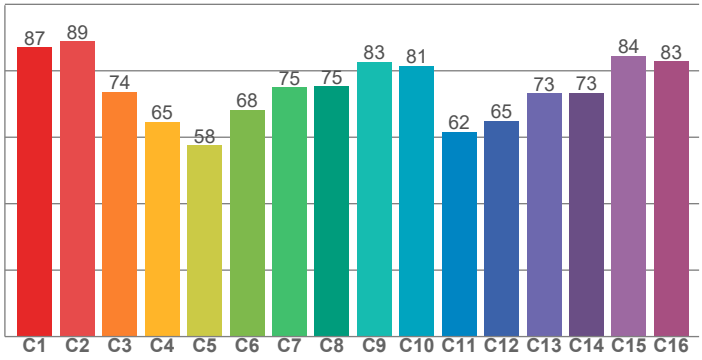


CIE 1931

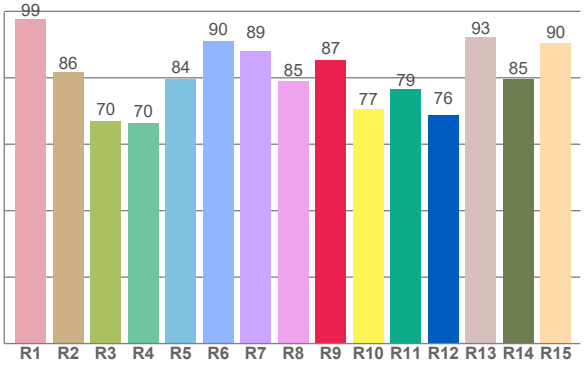


CIE 1931 ZOOM

TM30: 74,1



CRI: 84,7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
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

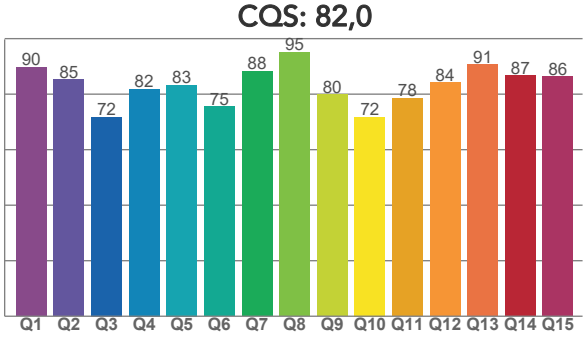
TM30 C values, 16 binned values out of total of 99 C values

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	84,7	87,3	74,1	110,4	82,0	58	0,313	0,308	-0,0111

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TM30 DETAILS

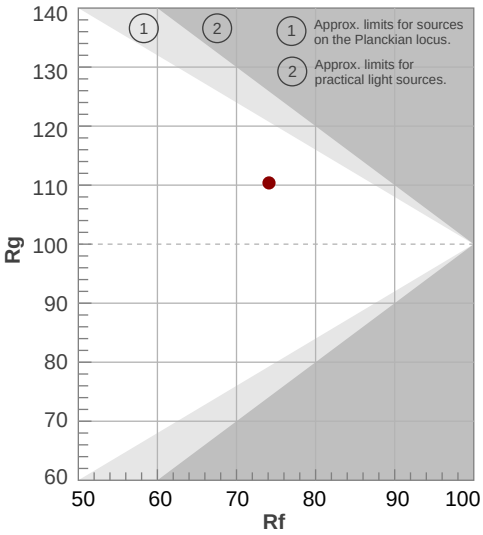
Rf 74,1

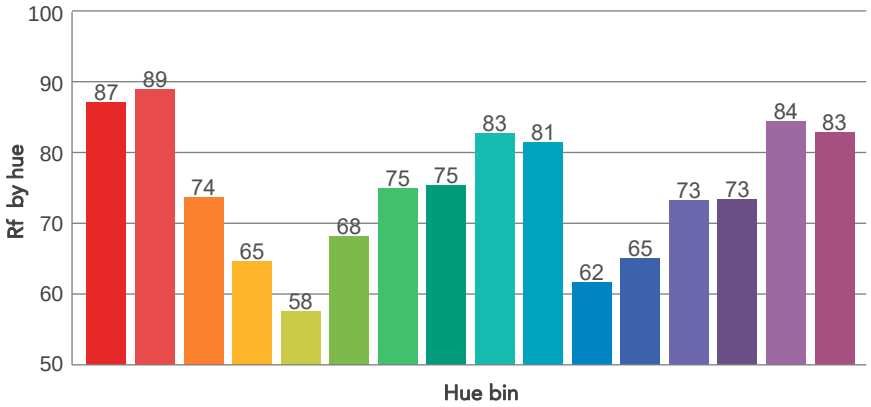
Fidelity index Rf

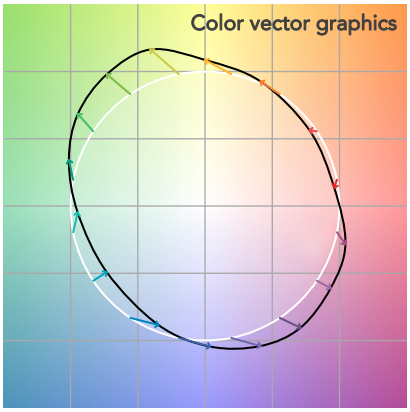
Rg 110,4

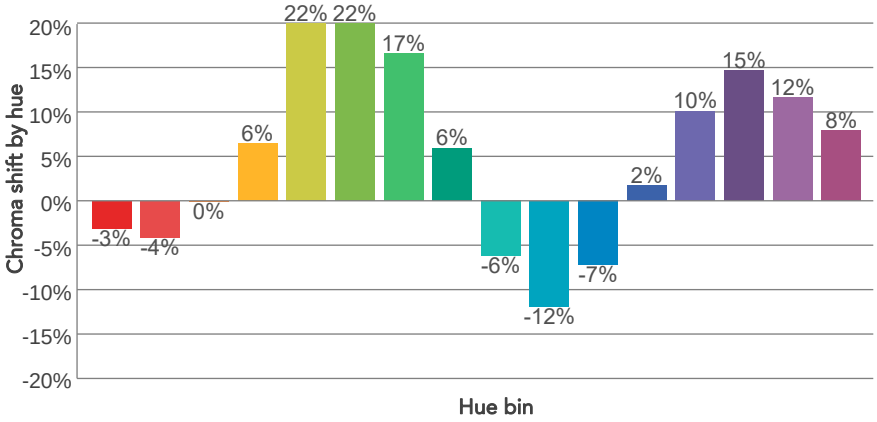
Gammut index

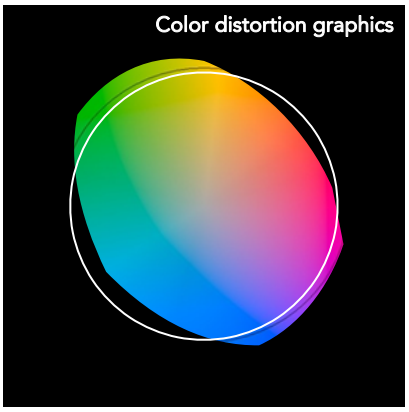
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	87	-3%	-5%
2	89	-4%	4%
3	74	0%	17%
4	65	6%	21%
5	58	22%	17%
6	68	22%	6%
7	75	17%	-4%
8	75	6%	-14%
9	83	-6%	-14%
10	81	-12%	0%
11	62	-7%	20%
12	65	2%	24%
13	73	10%	20%
14	73	15%	9%
15	84	12%	1%
16	83	8%	-8%

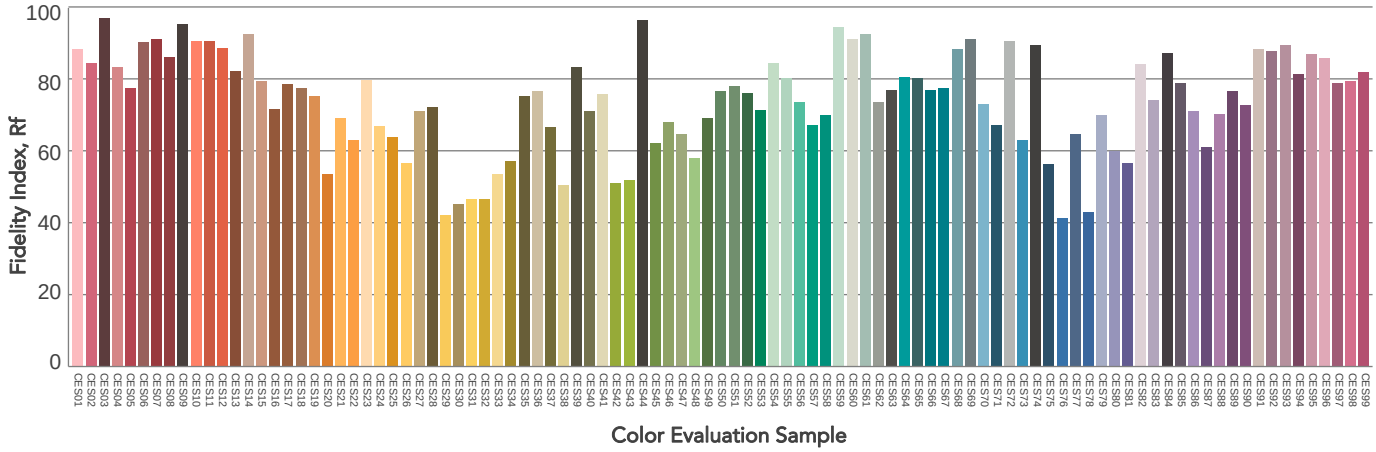












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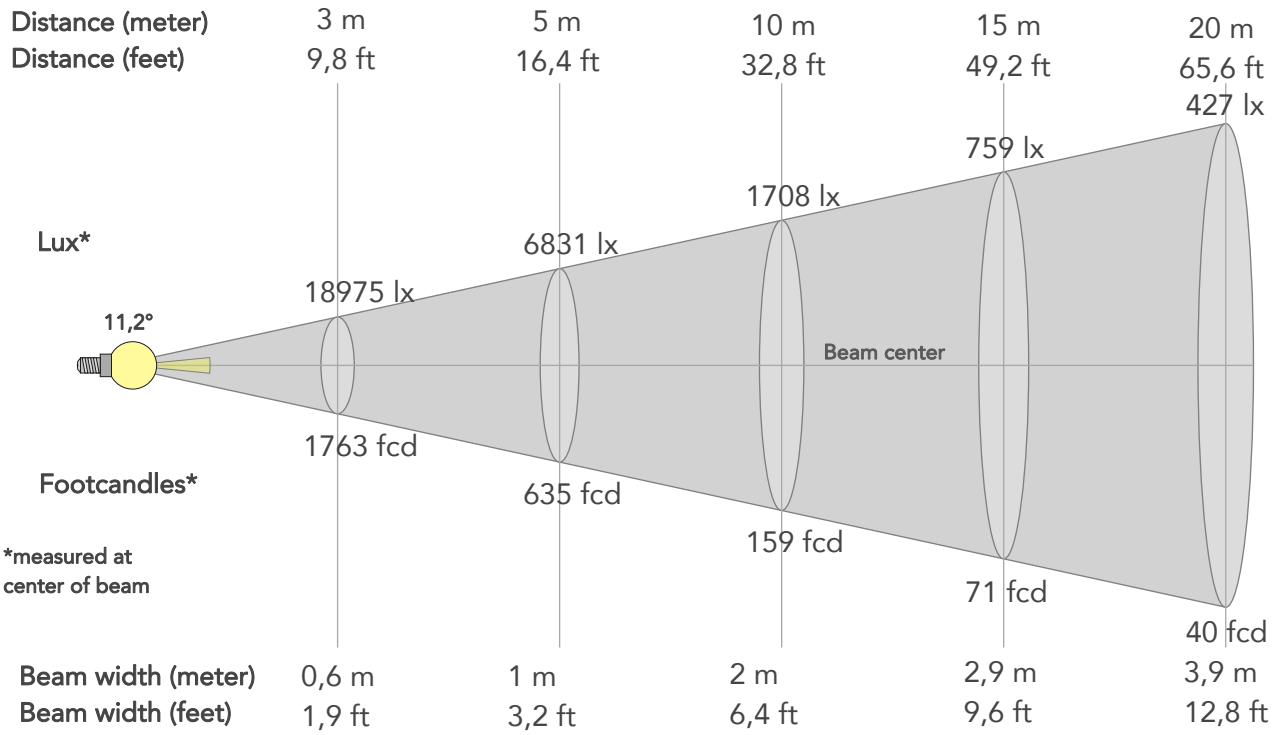
BEAM DETAILS

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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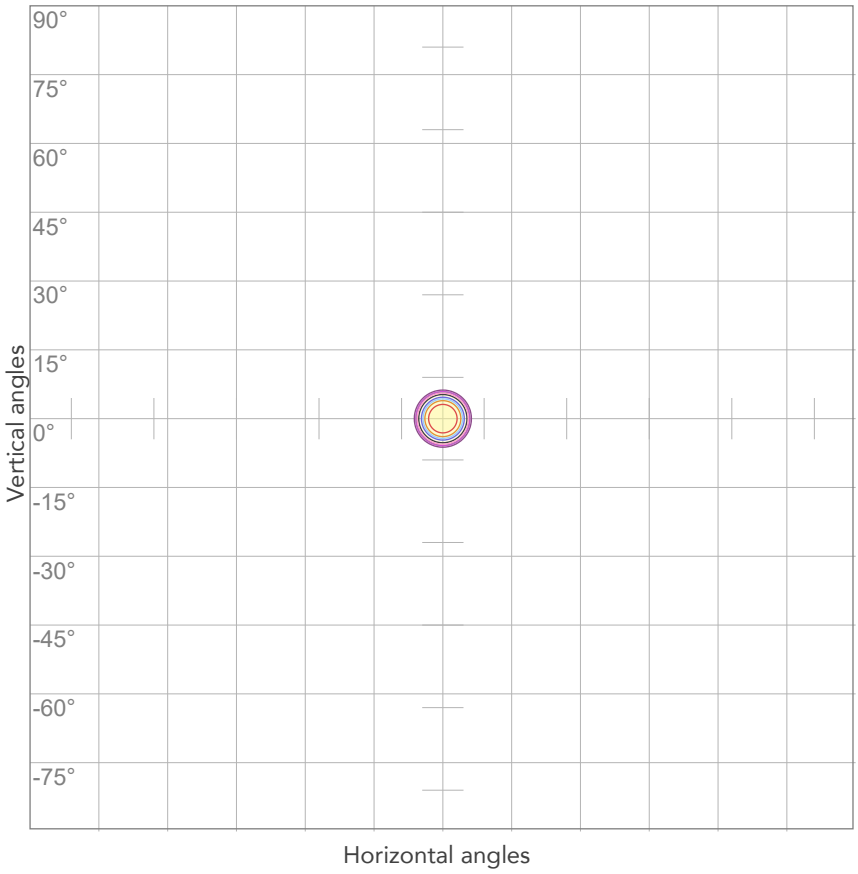
ISO DIAGRAMS

ISO CANDELA DIAGRAM



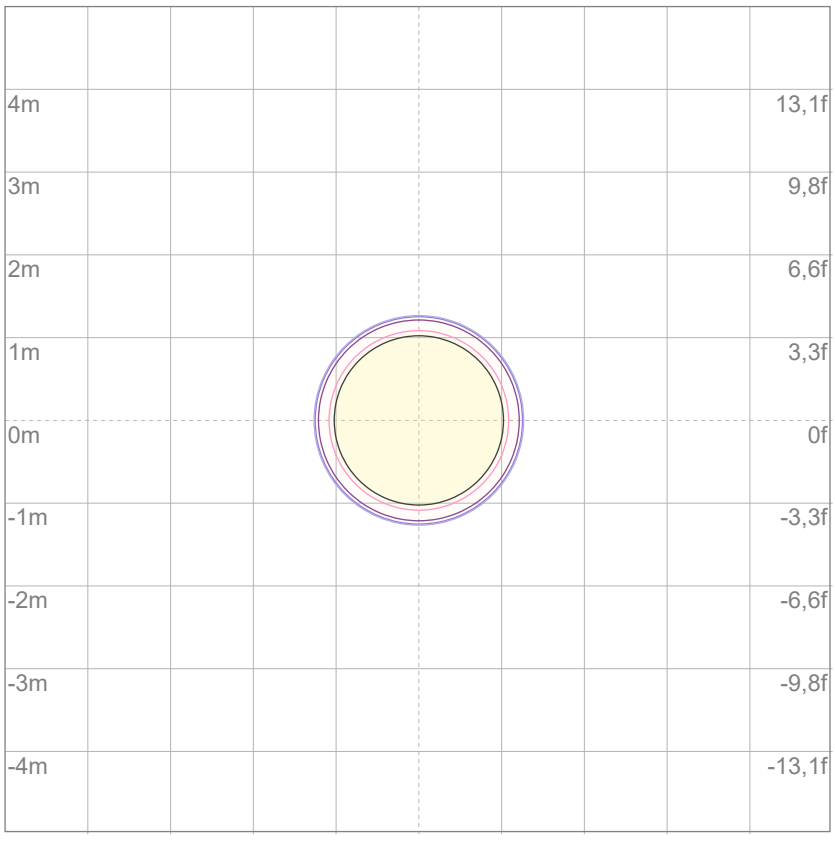
10%	17077 cd
20%	34155 cd
30%	51232 cd
40%	68309 cd
50%	85386 cd
60%	102464 cd
70%	119541 cd
80%	136618 cd

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

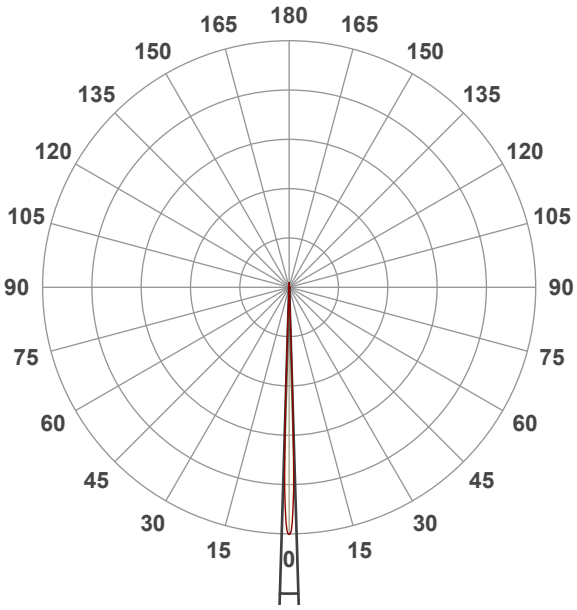
MEASURAMENT CONDITIONS:

Beam angle:
Min Zoom

Target:
6000K

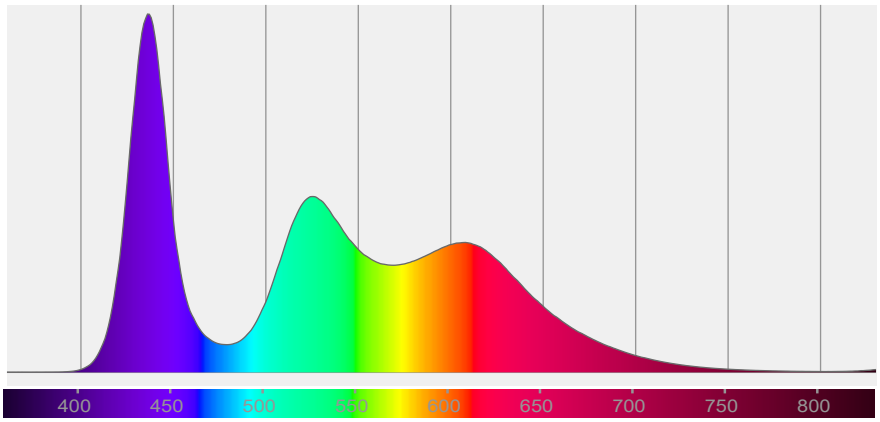
Operator:
Salvatore Giglio

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

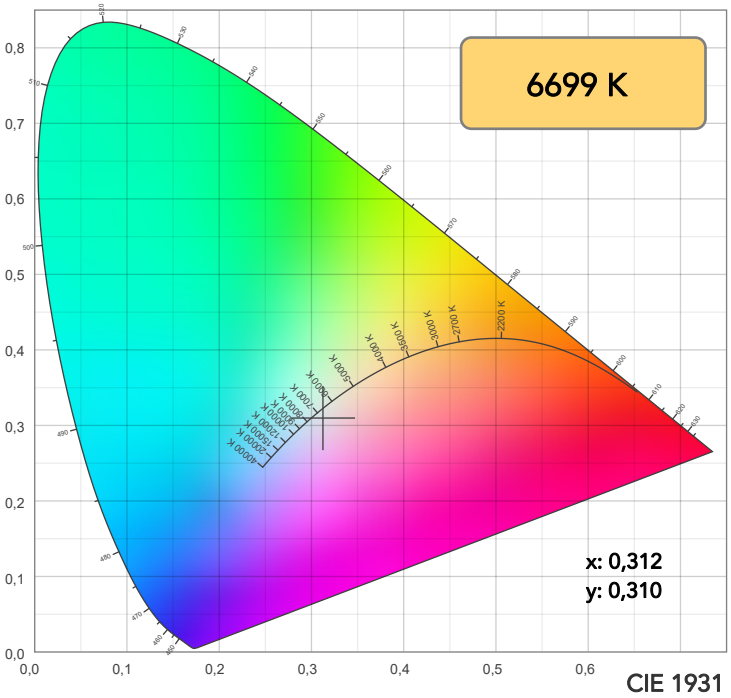


Beam angle 50%: 3,5°
Field angle 10%: 4,5°
Cut off angle 2.5%: 4,7°

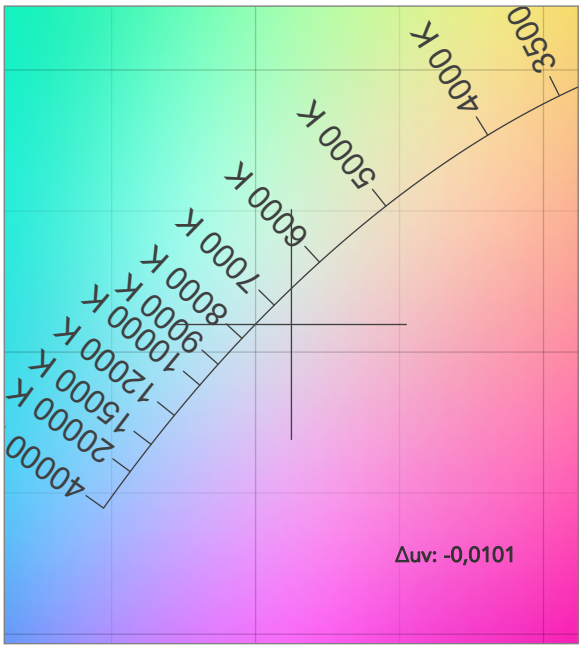
Spectra



COLOR DETAILS

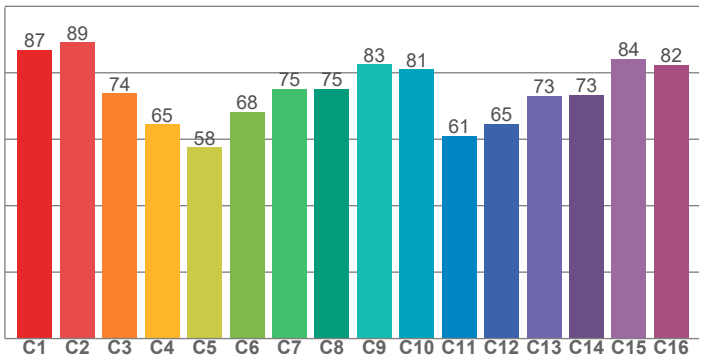


CIE 1931

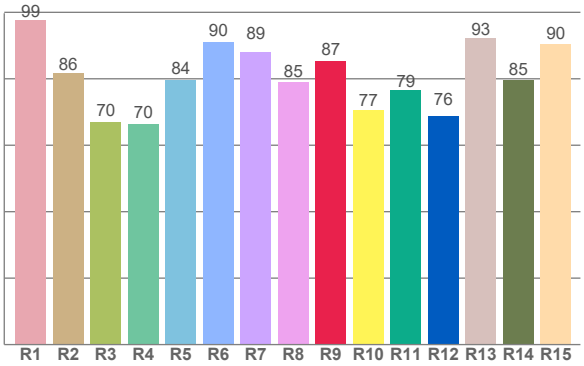


CIE 1931 ZOOM

TM30: 74,0



CRI: 84,7 (R1-R8)



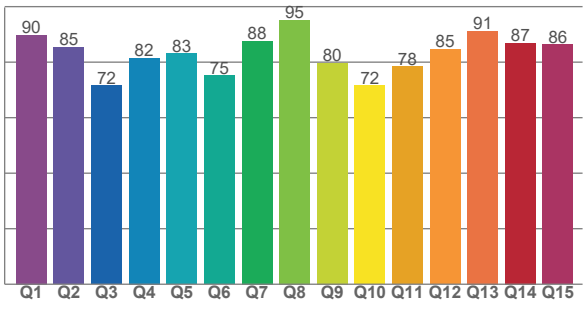
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
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	84,7	87,3	74,0	110,1	81,9	58	0,312	0,310	-0,0101

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TM30 DETAILS

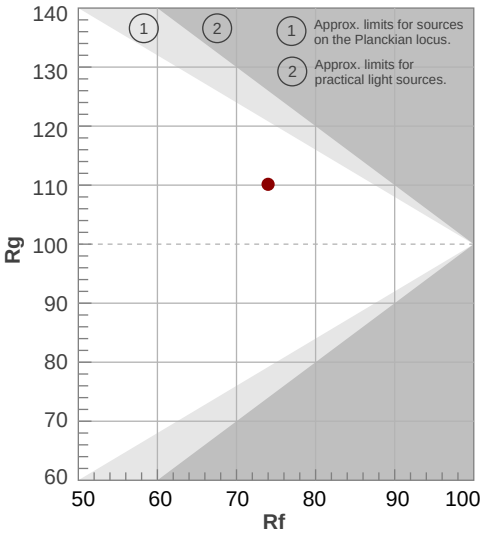
Rf 74,0

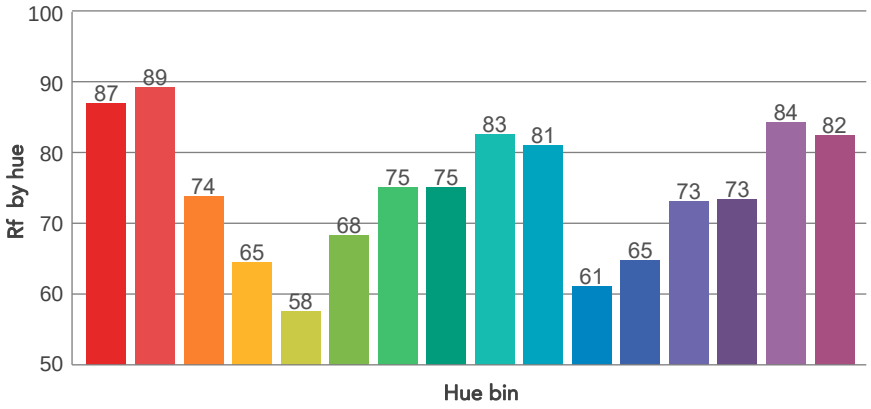
Fidelity index Rf

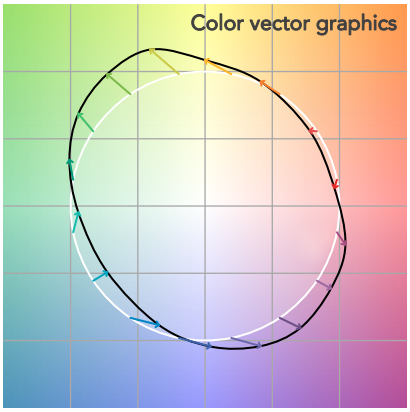
Rg 110,1

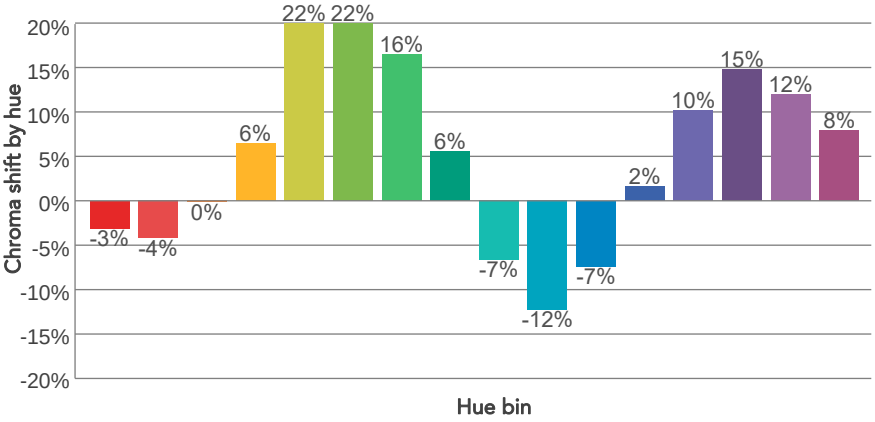
Gamut index

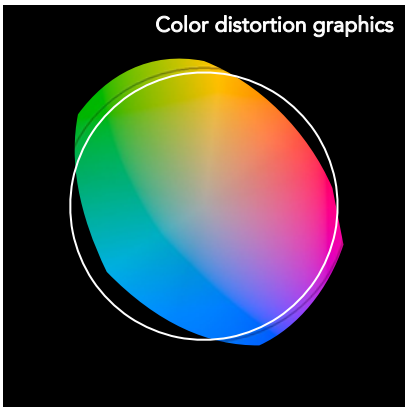
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	87	-3%	-5%
2	89	-4%	3%
3	74	0%	17%
4	65	6%	21%
5	58	22%	17%
6	68	22%	6%
7	75	16%	-5%
8	75	6%	-14%
9	83	-7%	-14%
10	81	-12%	1%
11	61	-7%	21%
12	65	2%	24%
13	73	10%	20%
14	73	15%	9%
15	84	12%	1%
16	82	8%	-8%

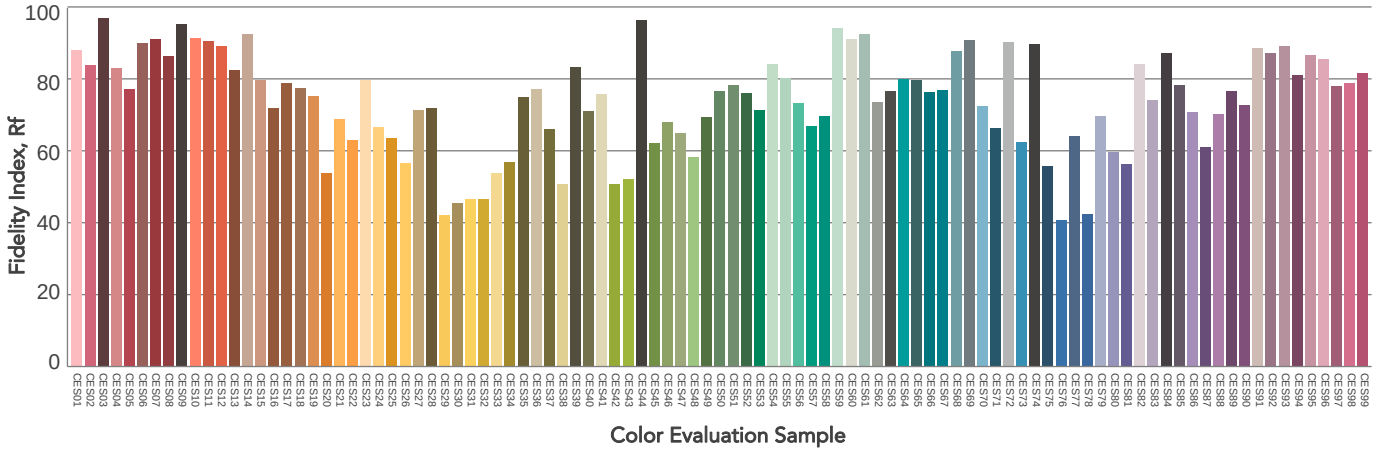












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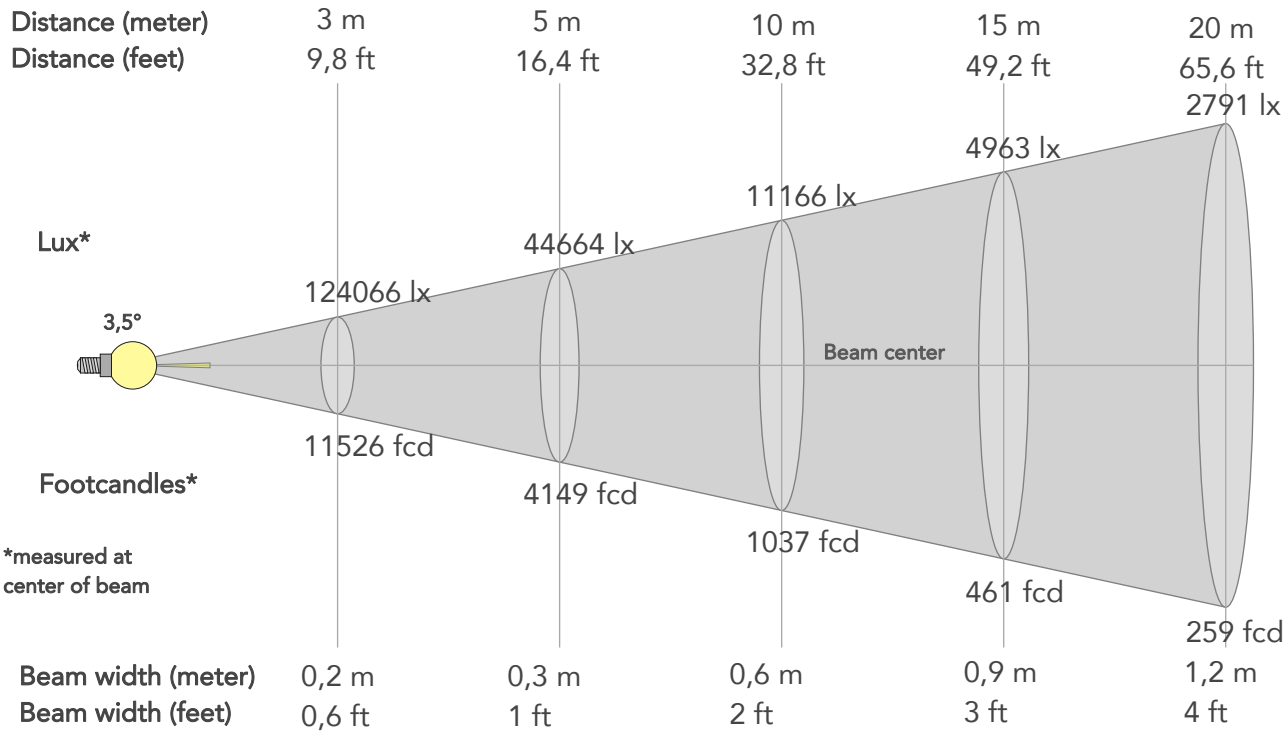
BEAM DETAILS

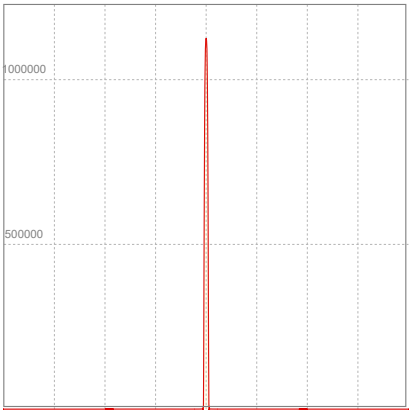
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,5°	4,5°	4,7°	77,0%	71,4%



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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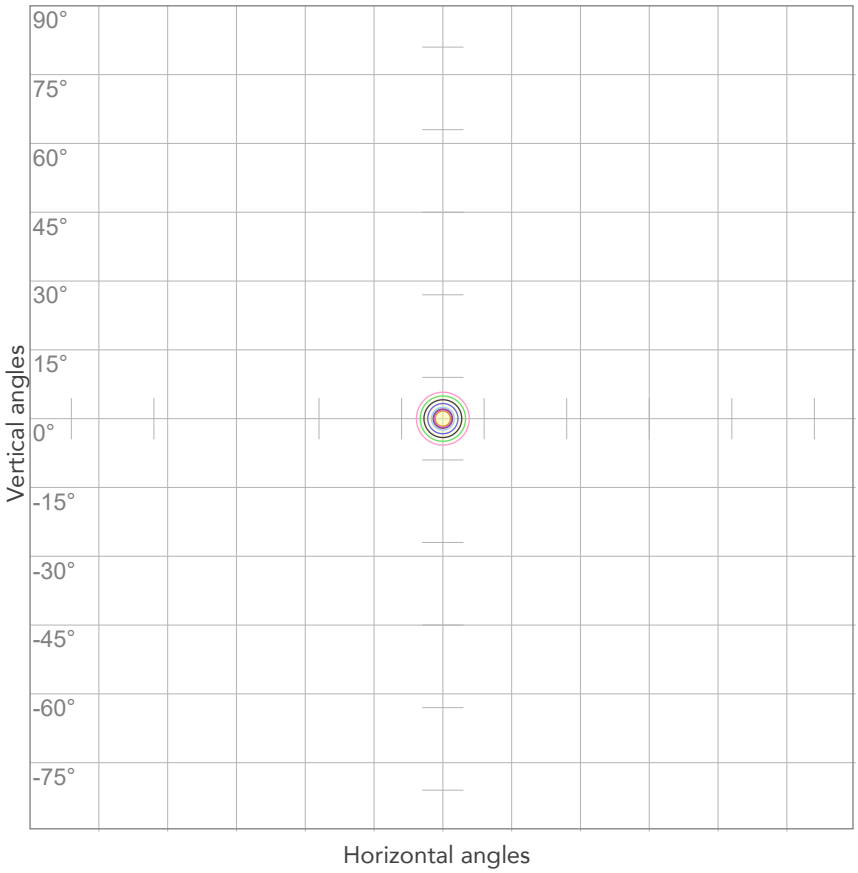
ISO DIAGRAMS

ISO CANDELA DIAGRAM



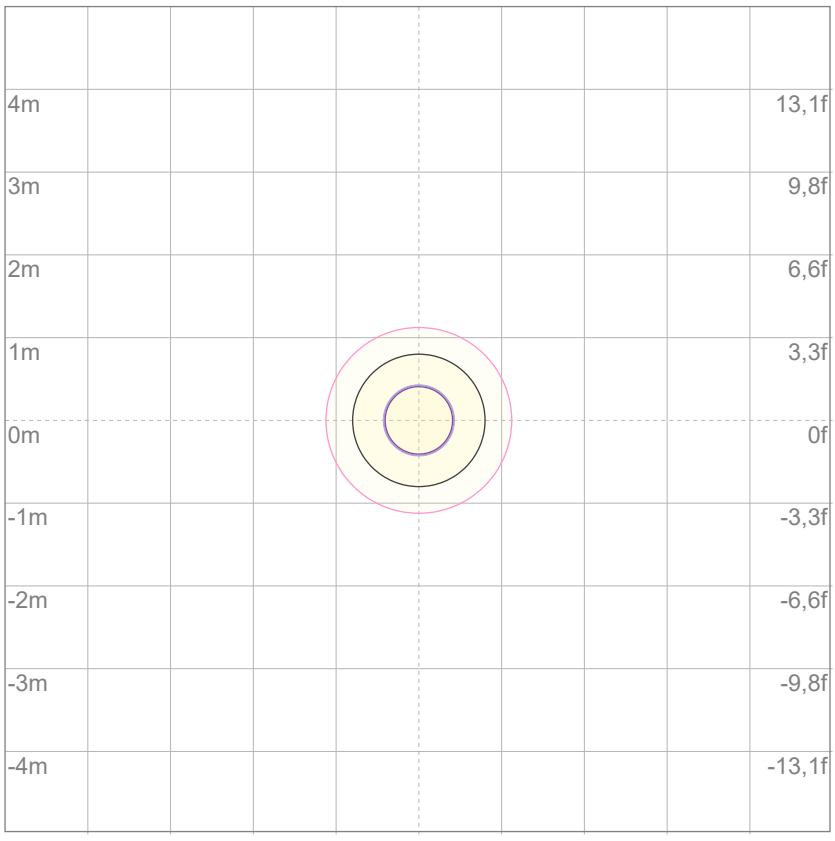
10%	111660 cd
20%	223319 cd
30%	334979 cd
40%	446639 cd
50%	558299 cd
60%	669958 cd
70%	781618 cd
80%	893278 cd

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.

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