

# Photometric Test Report



## ASTRAHYBRID330

Moving hybrid beam-spot, 330W LED Source  
with zoom 3,5° - 48° and CMY

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## TESTING PROCESS

Prolights has its own optical testing laboratory in order to provide accurate photometric reports for its lighting products. The testing laboratory contains certain variety of precise lighting measurement systems that ensure an optimal reading of all the characteristic parameters of the lighting devices. All measurements are made at a controlled room temperature of 20°C without any external light sources. This photometric report is obtained through the data measured by a high precision measurement system and analyzed by a dedicate software.

### **Prolights measurement instrument**

Prolights measurement instrument is a complete measurement system for any light source. It's equipped with two-axis goniometer, that enables to measure the full 3D distribution field of the light source. This instrument measures the light intensity, the beam angle and the most significative colors parameters, like color temperature, spectral distribution, CRI, CQS, TM-30 with a very high accuracy rate.

**Please Note:** All measurements are made with light source at operating temperature. Before starting the measurement, the instrument analyzes the process of the light source during the heating phase. The measuring process of all the parameters begins only when the light emission is stable, that is with a variation of less than 0.5% in a 15 minutes time frame.

### **Prolights measurement software**

The software provides user friendly interface for the operator who does the measurements, and it also analyzes and processes all the collected data by the instrument. With this software it is possible to see the measured data in real-time and it is possible to examine all the measured data and graphics afterwards as well. All information is collected in a specific Prolights template, and the software creates also IES and LDT files, which are widely used to transfer the photometric data, and to develop lighting system.

Additionally, the fixtures are rechecked using various hand-held instruments like Sekonic C-700 and Gossen Mavospec Base, this is done to ensure, that the data in the photometric report are as accurate as possible.



Total lumen output:

11684 lm

Peak candela output:

39154 cd

Light quality:

CRI: 69,4

Color temperature:

7348 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Max Zoom

Target:

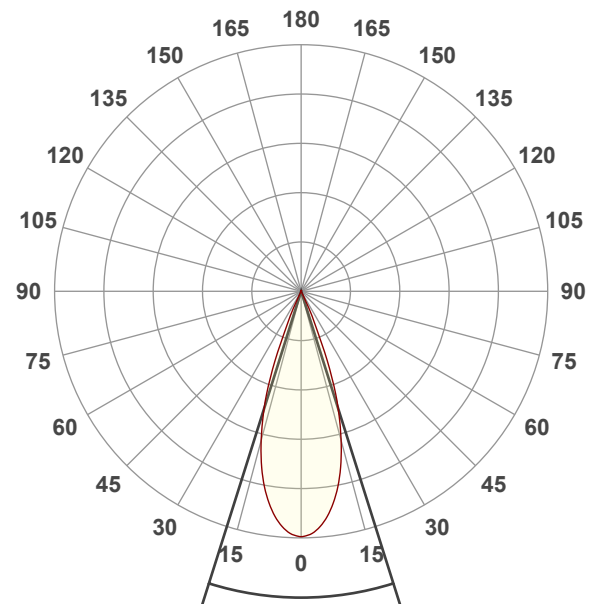
Full On

Operator:

Salvatore Giglio

Date and time:

26/05/2023 15:50:38

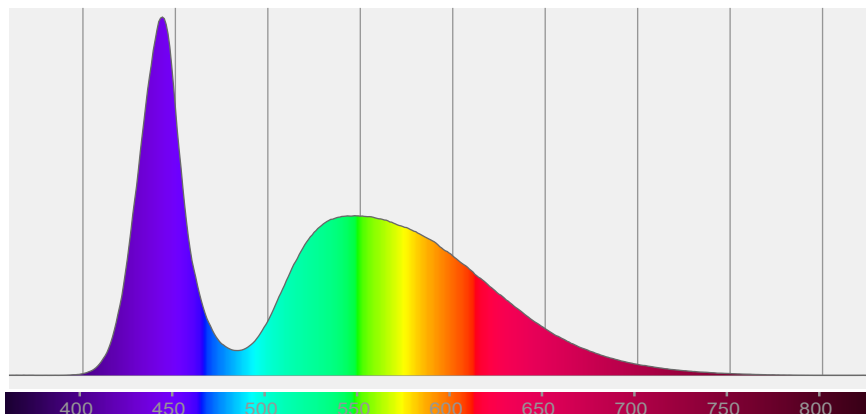


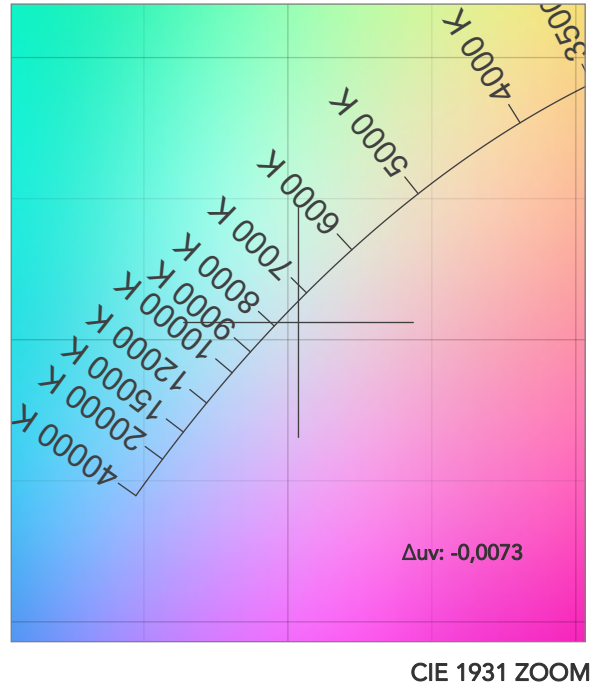
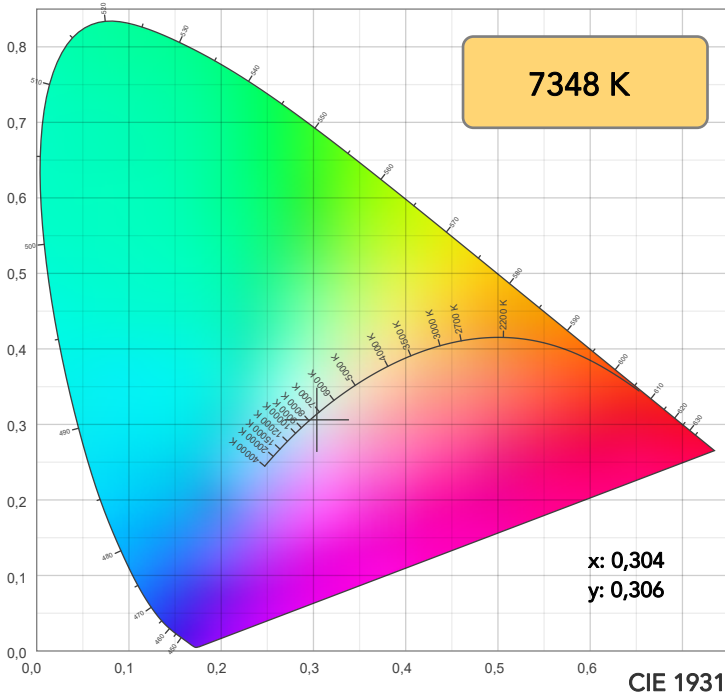
Beam angle 50%: 35°

Field angle 10%: 48°

Cut off angle 2.5%: 52°

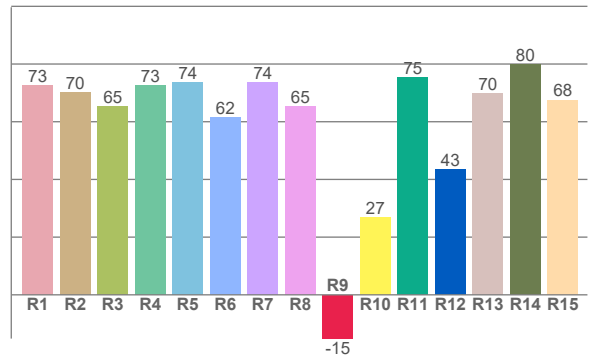
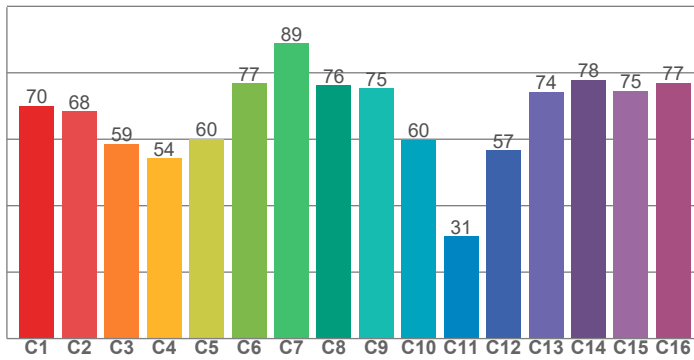
Spectra





TM30: 66,8

CRI: 69,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
72,7	70,3	65,4	72,6	73,7	61,5	73,7	65,2	-15,2	26,8	75,3	43,4	69,9	80,0	67,6

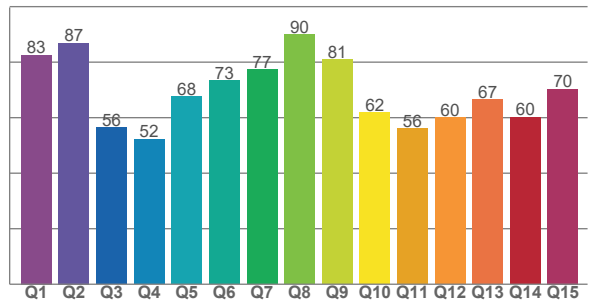
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
70,1	68,4	58,6	54,2	60,1	76,8	88,9	76,3	75,3	59,8	30,7	56,6	74,2	77,9	74,5	77,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,6	86,9	56,4	52,2	67,7	73,3	77,3	89,9	80,9	61,8	56,1	60,0	66,5	60,1	70,4

CQS: 67,4



COLOR PARAMETERS

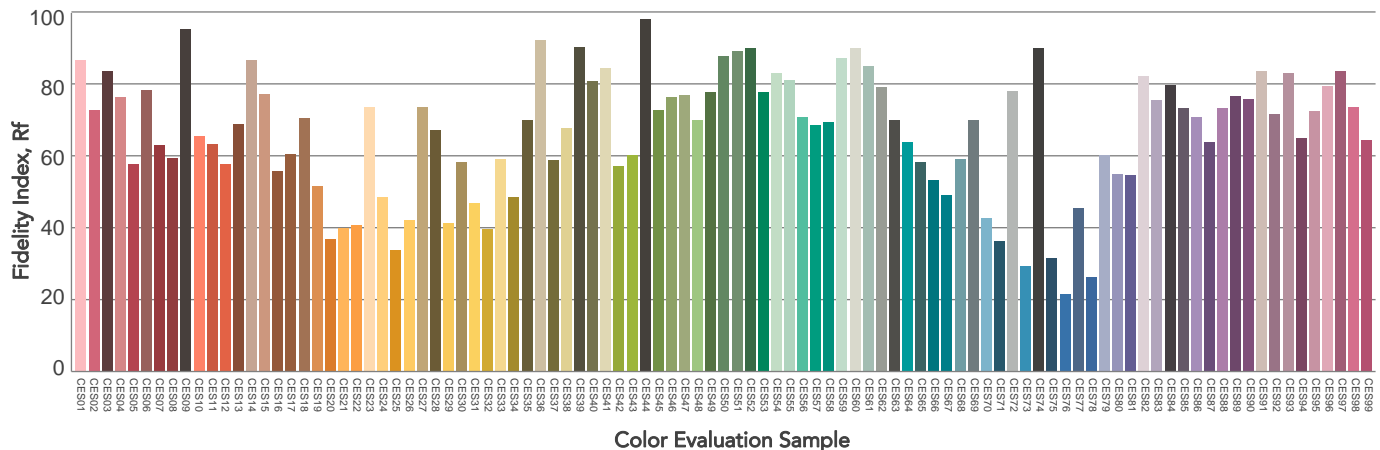
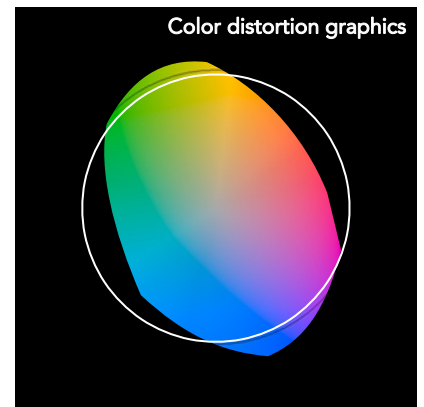
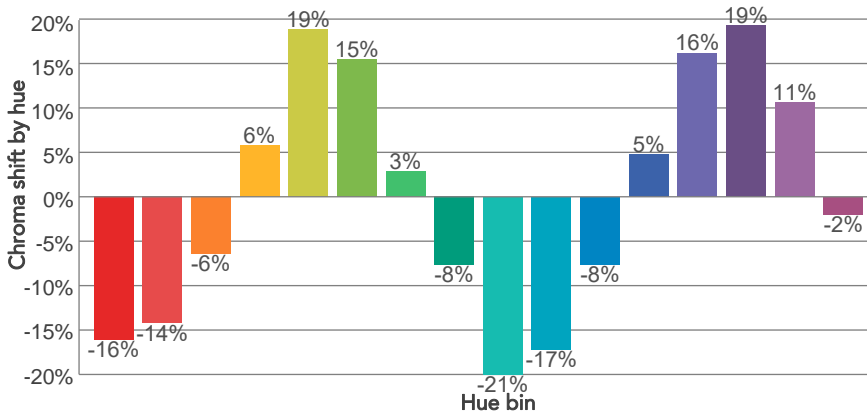
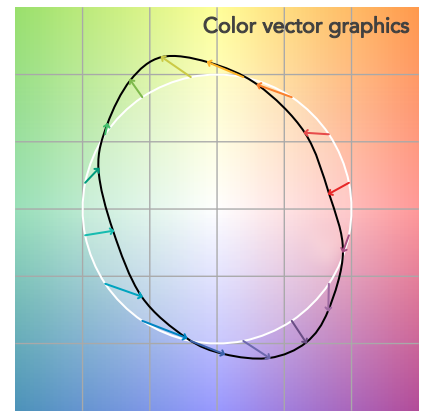
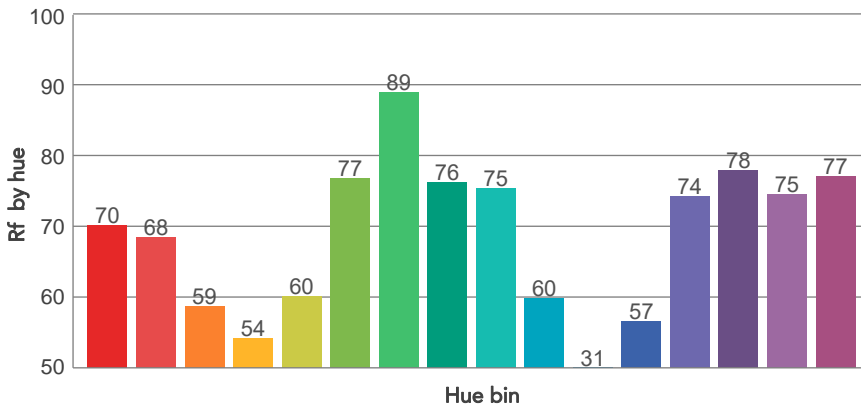
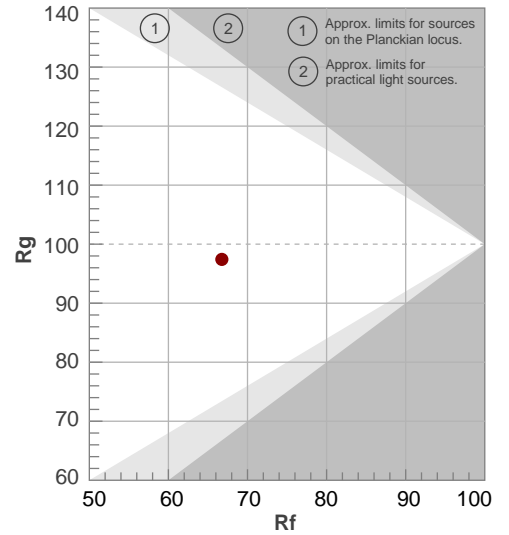
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
7348 K	69,4	-15,2	66,8	97,4	67,4	44	0,304	0,306	-0,0073

# TM30 DETAILS

**Rf 66,8**  
Fidelity index Rf

**Rg 97,4**  
Gammut index

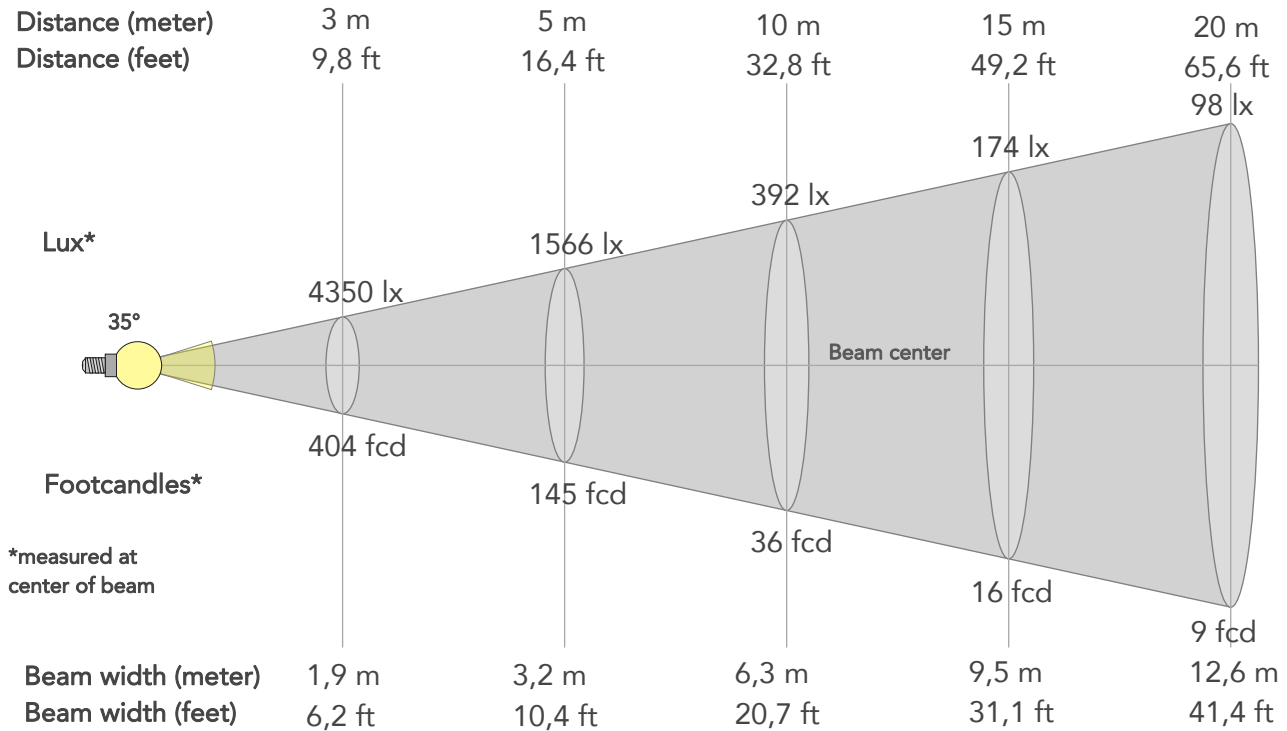
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	70	-16%	-5%
2	68	-14%	11%
3	59	-6%	26%
4	54	6%	28%
5	60	19%	18%
6	77	15%	0%
7	89	3%	-7%
8	76	-8%	-12%
9	75	-21%	1%
10	60	-17%	23%
11	31	-8%	34%
12	57	5%	26%
13	74	16%	17%
14	78	19%	0%
15	75	11%	-17%
16	77	-2%	-13%



# BEAM DETAILS



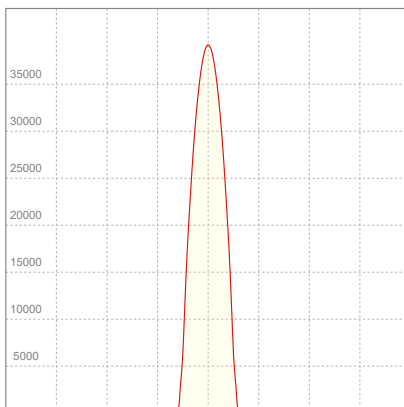
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35°	48°	52°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	39154lx	9788lx	4350lx	2447lx	1566lx	696lx	392lx	174lx	98lx	63lx	44lx	24lx	16lx
Footcand.	3637fcd	909fcd	404fcd	227fcd	145fcd	65fcd	36fcd	16fcd	9fcd	6fcd	4fcd	2fcd	1fcd
Beam wid.	0,6m	1,3m	1,9m	2,5m	3,2m	4,7m	6,3m	9,5m	12,6m	15,8m	18,9m	25,3m	31,6m
Beam wid.	2,1ft	4,2ft	6,2ft	8,3ft	10,4ft	15,5ft	20,7ft	31,1ft	41,4ft	51,8ft	62,1ft	82,8ft	103,6ft

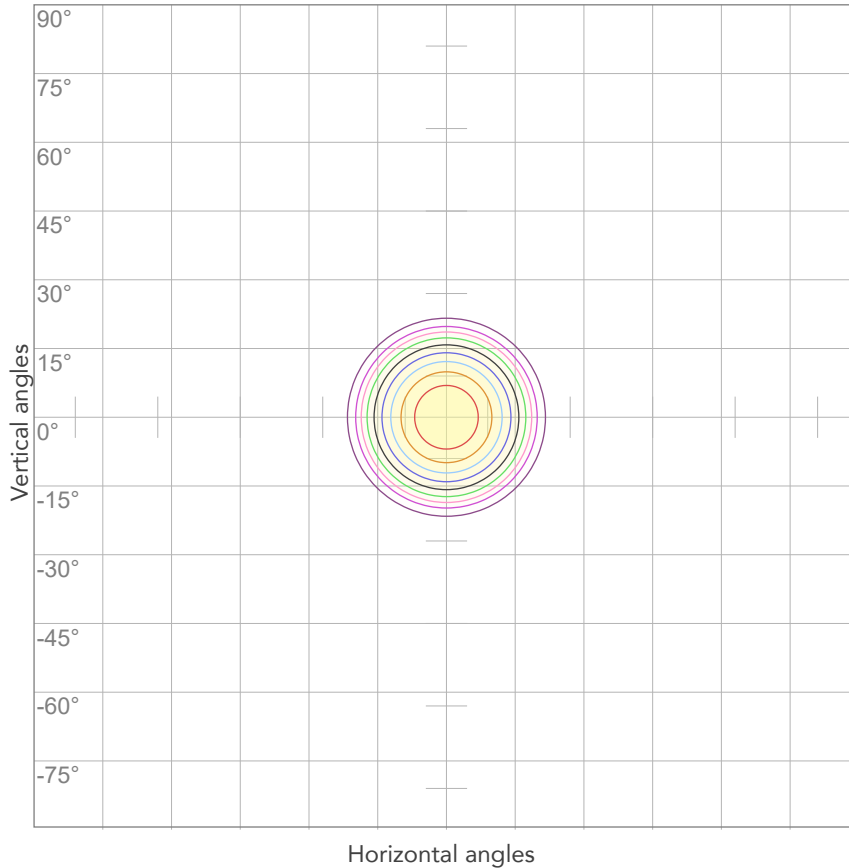
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	2,04A	450,1W	26lm/W
Power Fc			
0,98			

## ISO CANDELA DIAGRAM



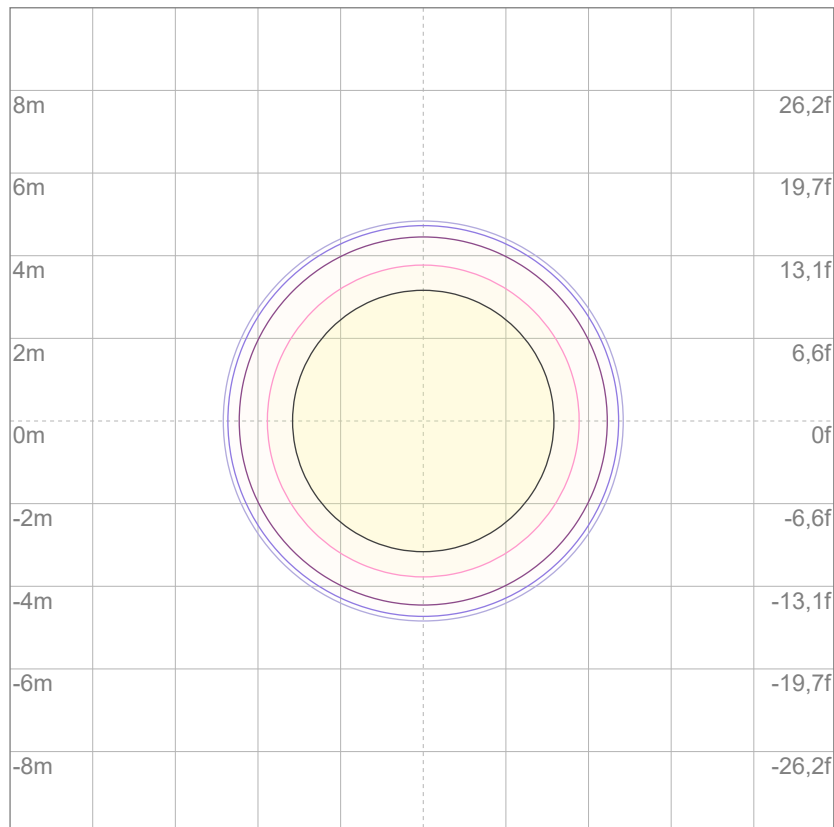
10%	3915 cd
20%	7831 cd
30%	11746 cd
40%	15661 cd
50%	19577 cd
60%	23492 cd
70%	27408 cd
80%	31323 cd

Conditions:

Number of c-planes: 2

Candela at center: 39154 cd

## ISO LUX DIAGRAM



3%	11,7 lx
5%	19,6 lx
10%	39,2 lx
30%	117 lx
50%	196 lx

Conditions:

Number of c-planes: 2

Lux at center: 392 lx

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

Mounting height: 10 meters (33 feet)





Total lumen output:

10976 lm

Peak candela output:

339150 cd

Light quality:

CRI: 69,6

Color temperature:

7328 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASURAMENT CONDITIONS:**

Beam angle:

Med Zoom

Target:

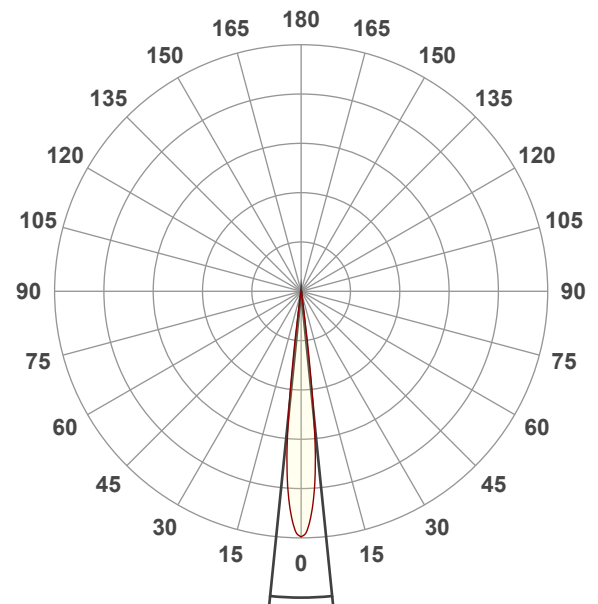
Full On

Operator:

Salvatore Giglio

Date and time:

29/05/2023 16:35:13

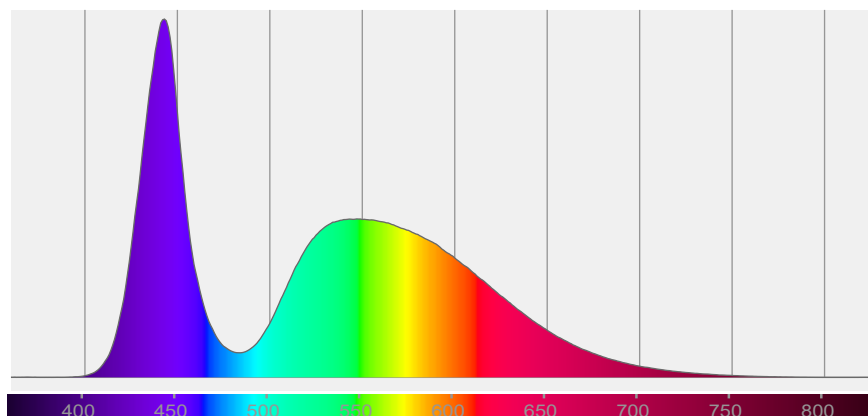


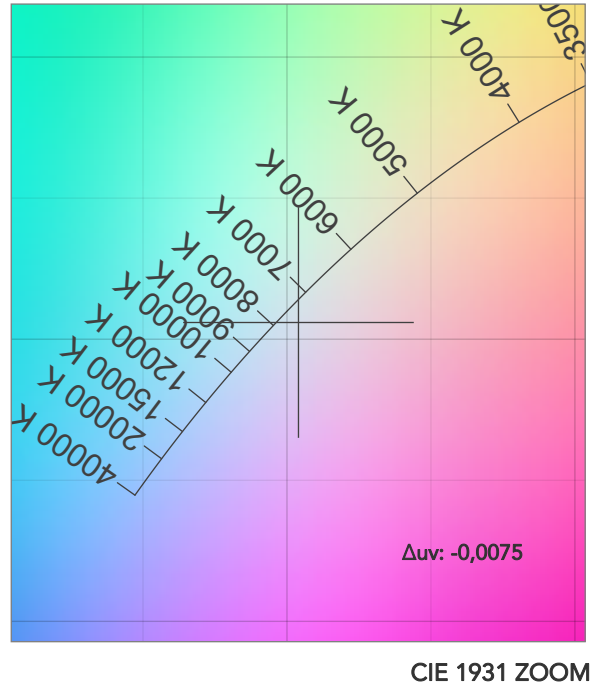
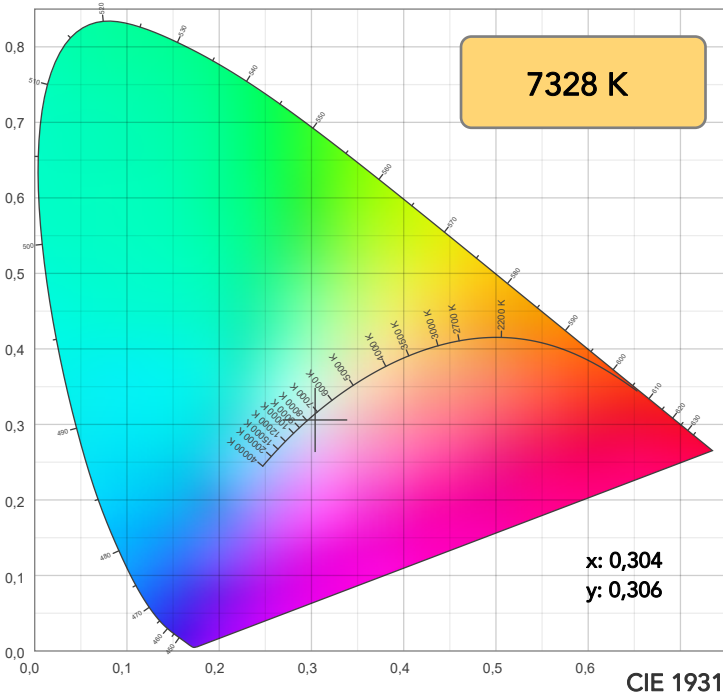
Beam angle 50%: 11,6°

Field angle 10%: 15,5°

Cut off angle 2.5%: 16,7°

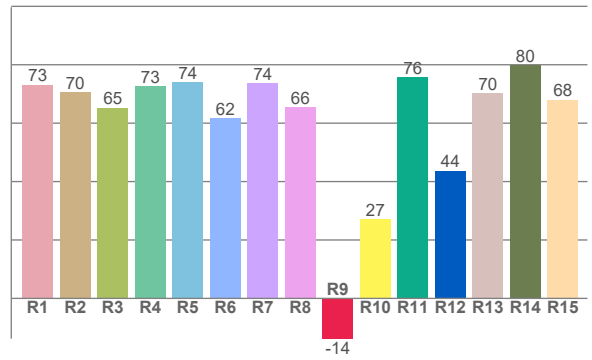
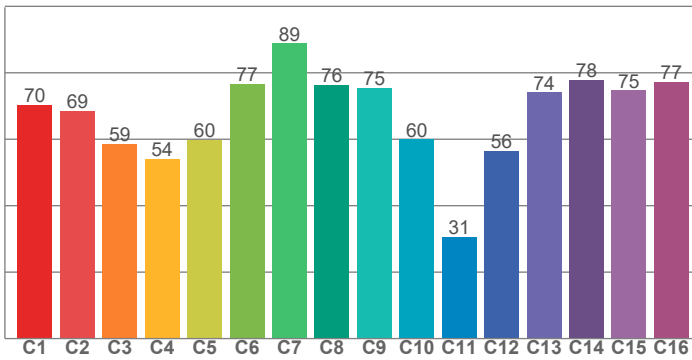
Spectra





TM30: 66,8

CRI: 69,6 (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
73,1	70,5	65,3	72,7	74,0	61,7	73,7	65,5	-13,8	27,1	75,6	43,7	70,2	79,9	68,0

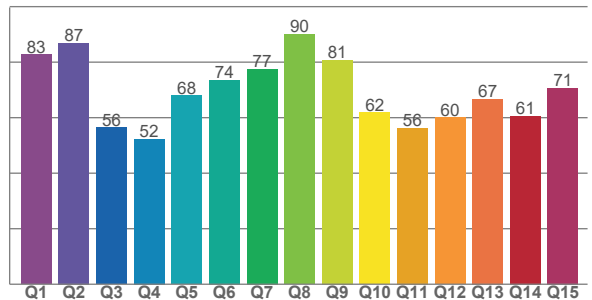
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
70,4	68,6	58,7	54,1	59,9	76,6	88,8	76,4	75,4	59,9	30,7	56,5	74,1	77,9	74,7	77,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,7	86,8	56,4	52,3	67,9	73,6	77,5	90,1	80,8	61,8	56,2	60,0	66,7	60,5	70,7

CQS: 67,5



COLOR PARAMETERS

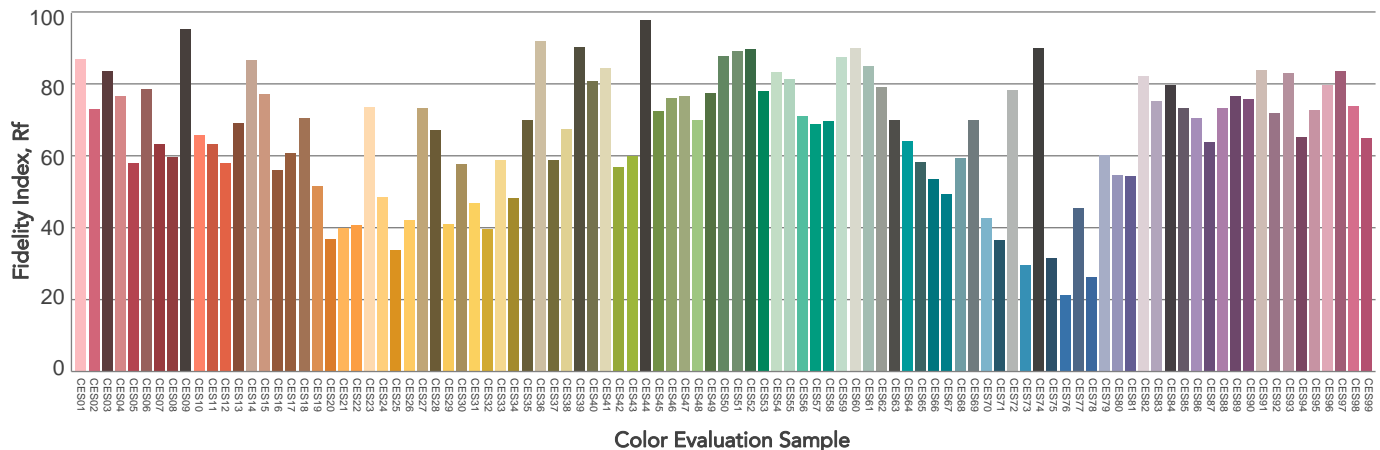
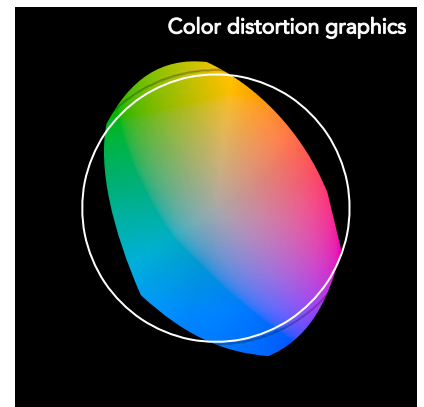
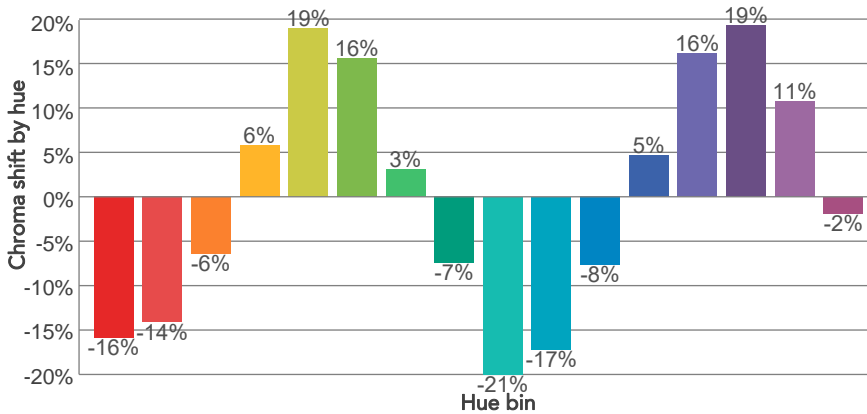
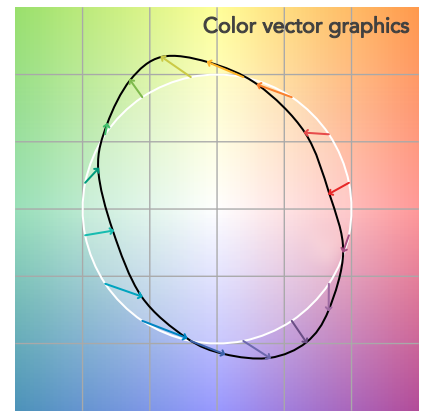
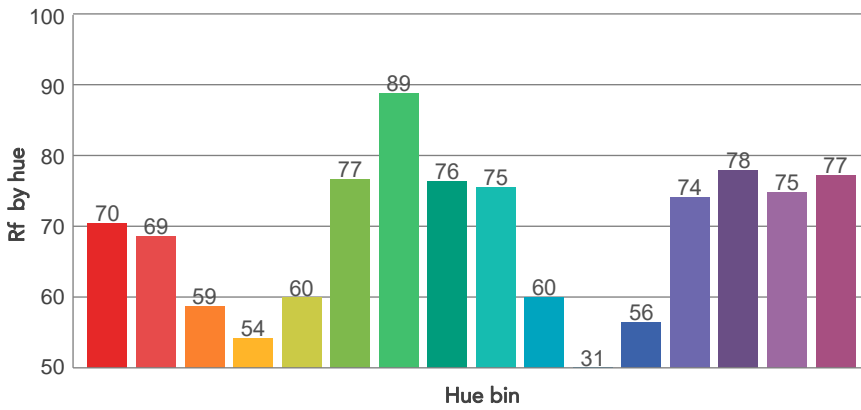
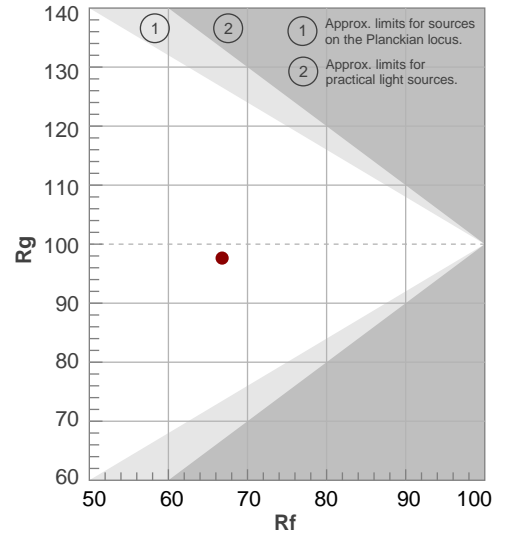
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7328 K	69,6	-13,8	66,8	97,6	67,5	44	0,304	0,306	-0,0075

# TM30 DETAILS

**Rf 66,8**  
Fidelity index Rf

**Rg 97,6**  
Gammut index

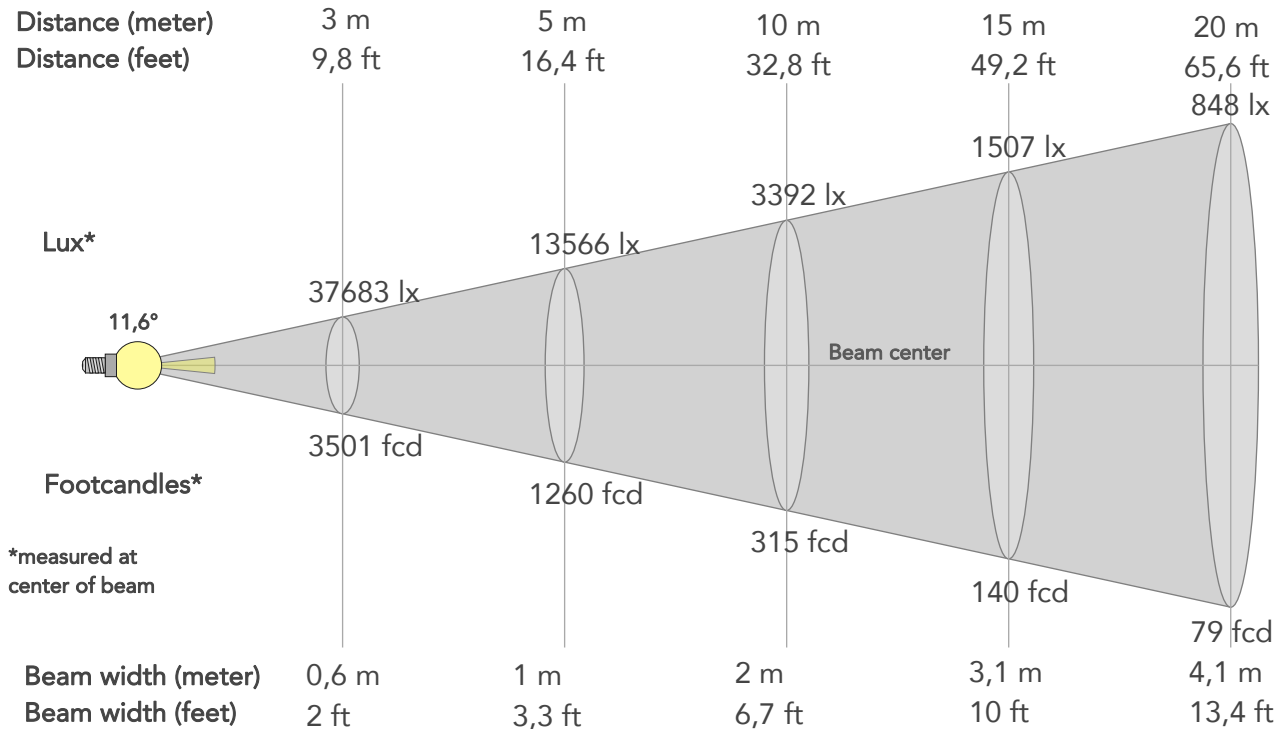
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	70	-16%	-5%
2	69	-14%	11%
3	59	-6%	26%
4	54	6%	28%
5	60	19%	18%
6	77	16%	0%
7	89	3%	-7%
8	76	-7%	-12%
9	75	-21%	1%
10	60	-17%	23%
11	31	-8%	34%
12	56	5%	26%
13	74	16%	17%
14	78	19%	0%
15	75	11%	-16%
16	77	-2%	-13%



# BEAM DETAILS



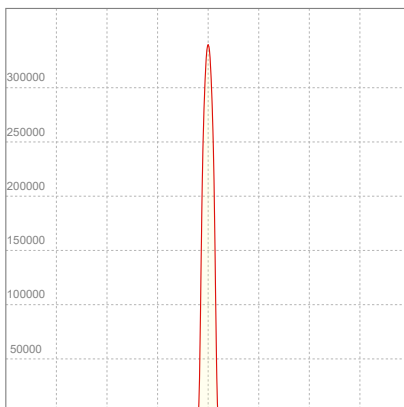
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,6°	15,5°	16,7°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	339150lx	84788lx	37683lx	21197lx	13566lx	6029lx	3392lx	1507lx	848lx	543lx	377lx	212lx	136lx
Footcand.	31508fcd	7877fcd	3501fcd	1969fcd	1260fcd	560fcd	315fcd	140fcd	79fcd	50fcd	35fcd	20fcd	13fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	2m	3,1m	4,1m	5,1m	6,1m	8,1m	10,2m
Beam wid.	0,7ft	1,3ft	2ft	2,7ft	3,3ft	5ft	6,7ft	10ft	13,4ft	16,7ft	20ft	26,7ft	33,4ft

## LINEAR DISTRIBUTION DIAGRAM

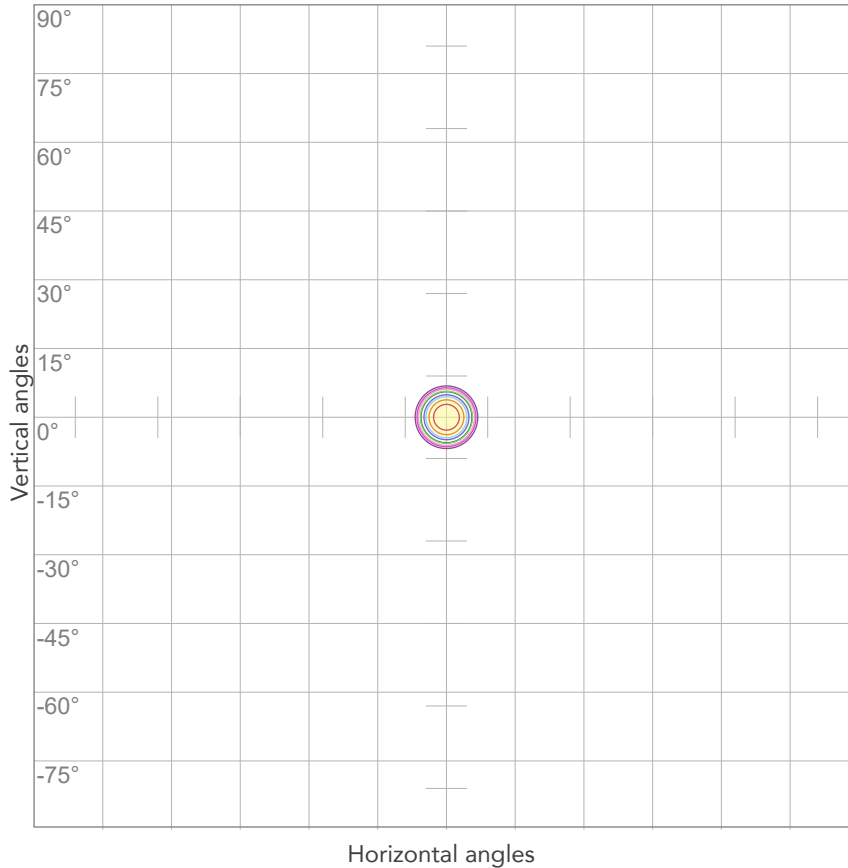


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	2,05A	451,3W	24lm/W

Power Fc
0,98

## ISO CANDELA DIAGRAM



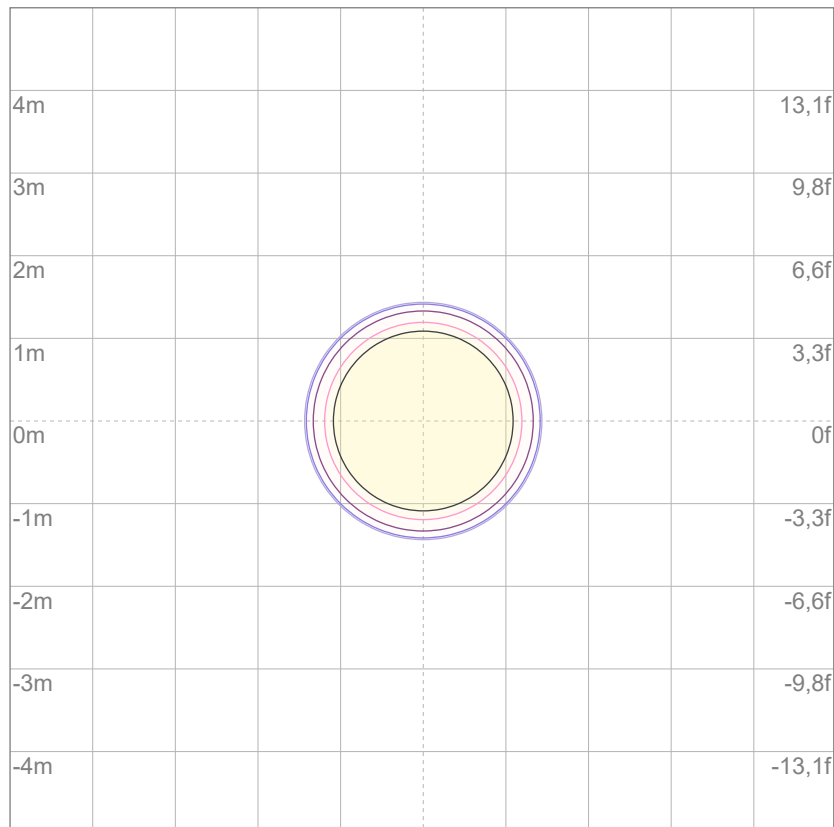
10%	33915 cd
20%	67830 cd
30%	101745 cd
40%	135660 cd
50%	169575 cd
60%	203490 cd
70%	237405 cd
80%	271320 cd

Conditions:

Number of c-planes: 2

Candela at center: 339150 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	102 lx
5%	170 lx
10%	339 lx
30%	1017 lx
50%	1696 lx

Conditions:

Number of c-planes: 2

Lux at center: 3392 lx

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



Total lumen output:

8158 lm

Peak candela output:

2449904 cd

Light quality:

CRI: 69,4

Color temperature:

7215 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Min Zoom

Target:

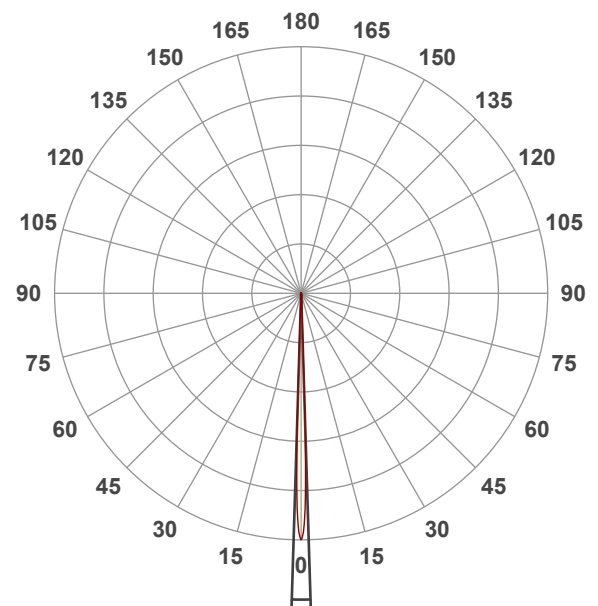
Full On

Operator:

Salvatore Giglio

Date and time:

26/05/2023 14:46:18

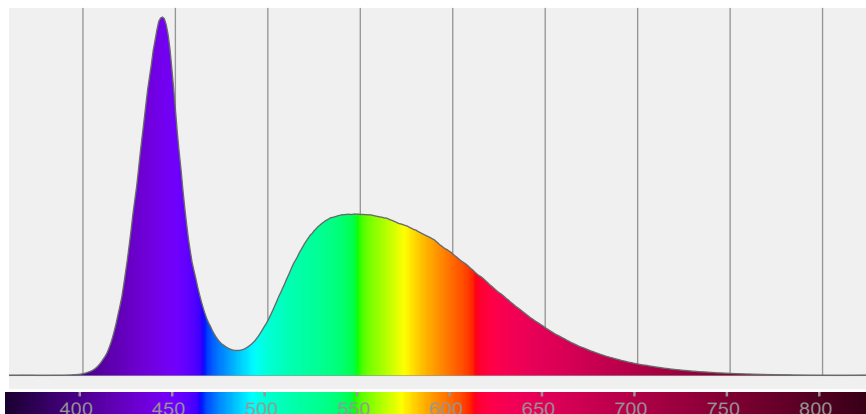


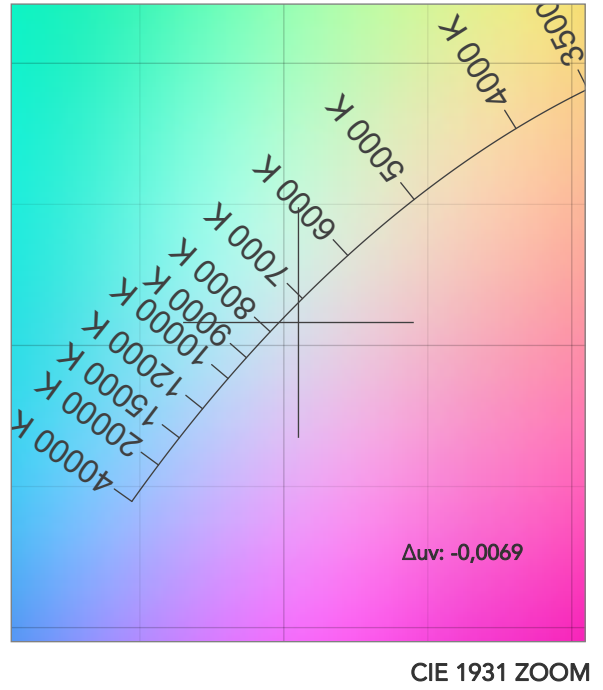
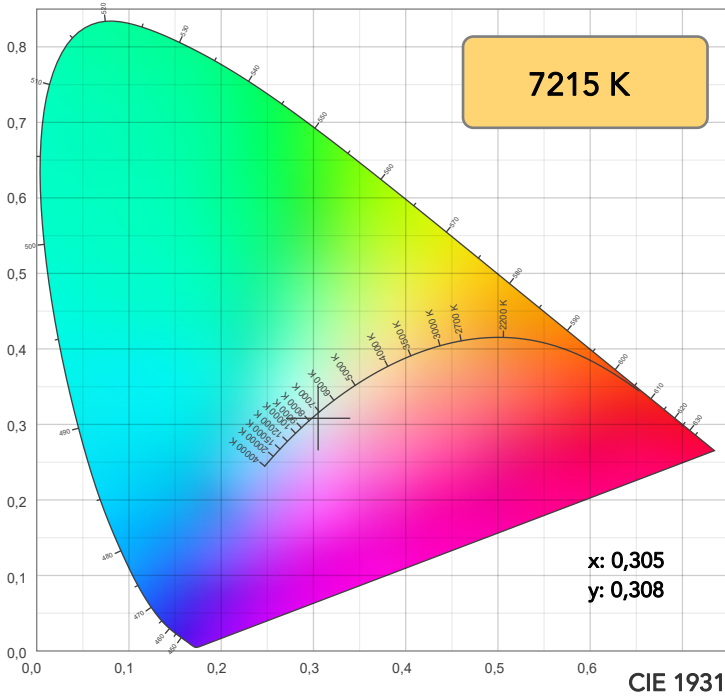
Beam angle 50%: 3,5°

Field angle 10%: 4,6°

Cut off angle 2.5%: 5,2°

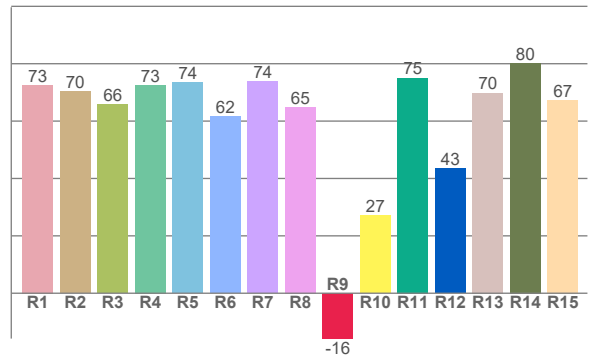
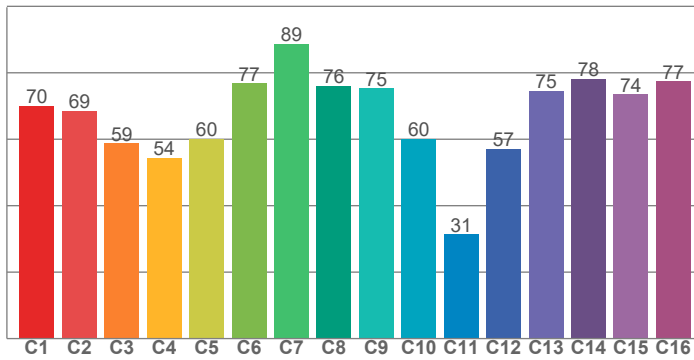
Spectra





TM30: 66,9

CRI: 69,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
72,6	70,4	65,8	72,5	73,5	61,6	73,8	64,9	-15,8	27,1	75,1	43,4	69,8	80,2	67,3

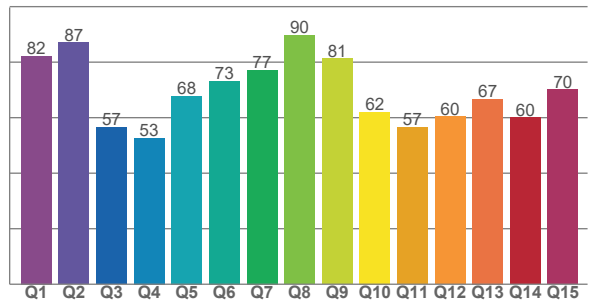
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
70,0	68,5	58,8	54,5	60,2	76,8	88,7	76,0	75,3	60,2	31,3	57,1	74,5	78,1	73,5	77,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,3	87,0	56,5	52,6	67,8	73,2	77,1	89,7	81,2	62,1	56,5	60,3	66,8	60,0	70,1

CQS: 67,5



COLOR PARAMETERS

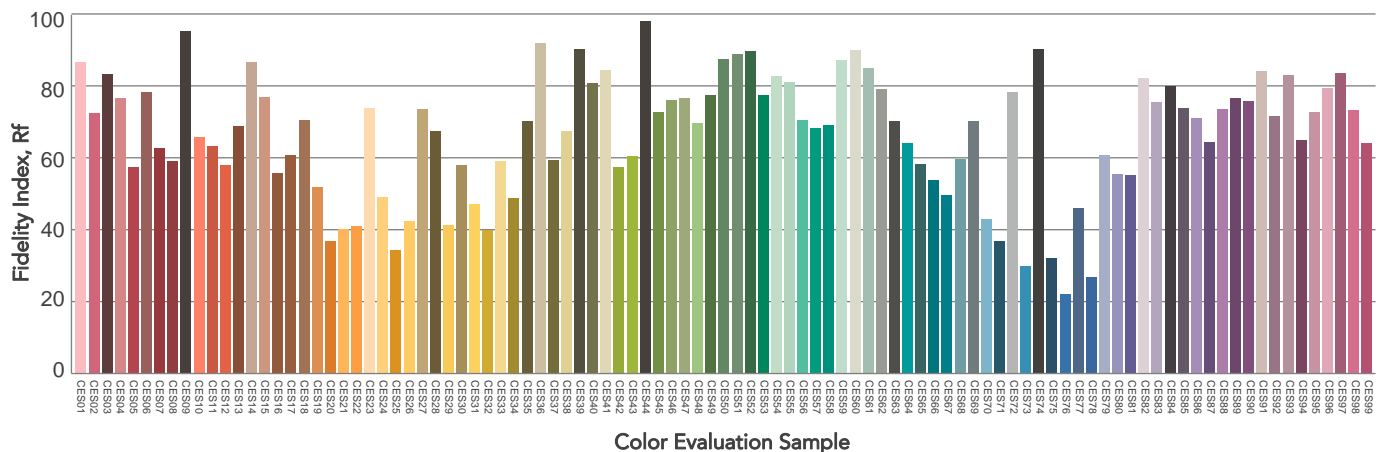
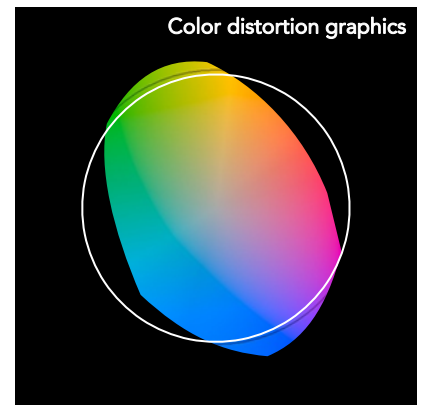
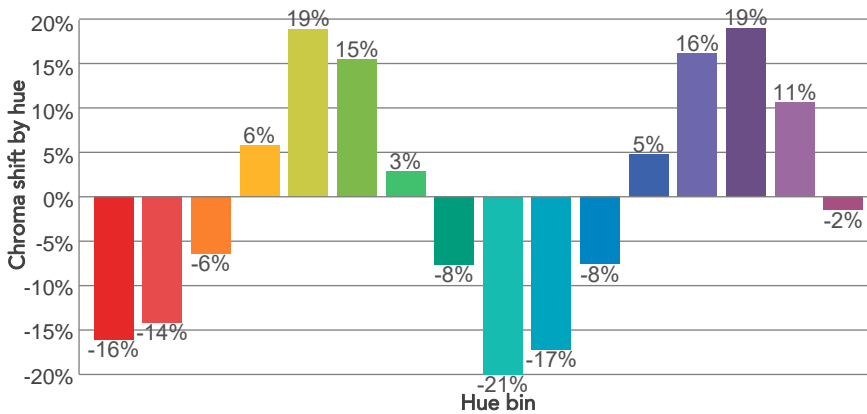
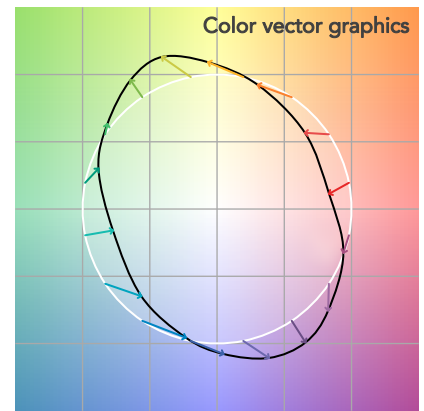
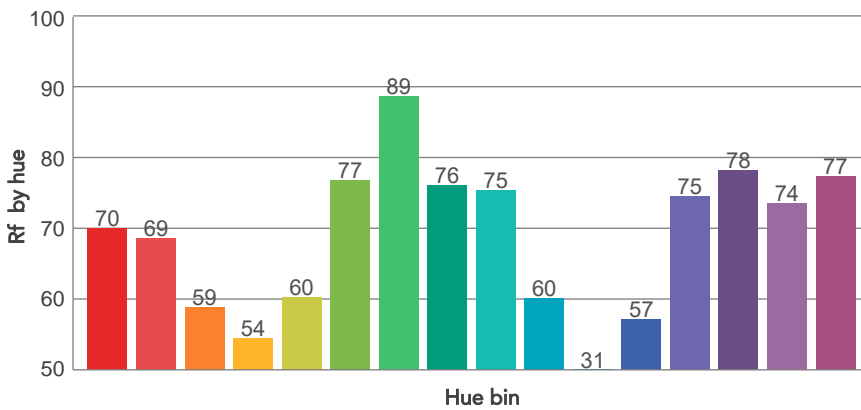
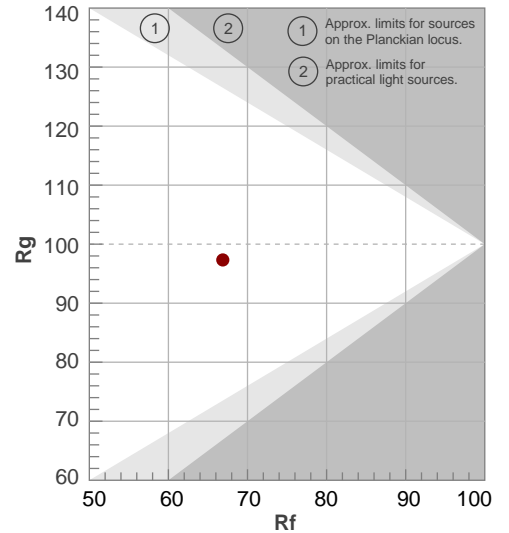
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
7215 K	69,4	-15,8	66,9	97,3	67,5	44	0,305	0,308	-0,0069

# TM30 DETAILS

**Rf 66,9**  
Fidelity index Rf

**Rg 97,3**  
Gammut index

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	70	-16%	-5%
2	69	-14%	11%
3	59	-6%	26%
4	54	6%	28%
5	60	19%	18%
6	77	15%	0%
7	89	3%	-7%
8	76	-8%	-12%
9	75	-21%	1%
10	60	-17%	23%
11	31	-8%	34%
12	57	5%	26%
13	75	16%	16%
14	78	19%	0%
15	74	11%	-17%
16	77	-2%	-14%

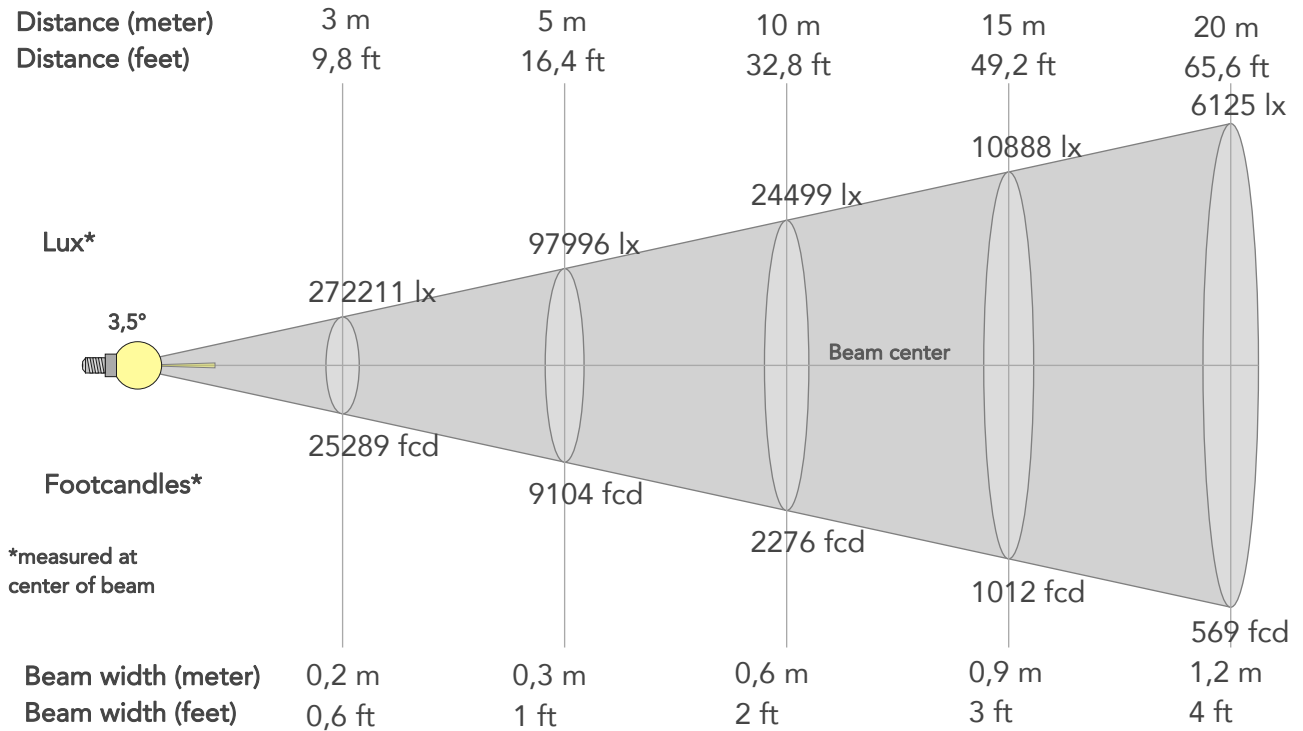




# BEAM DETAILS



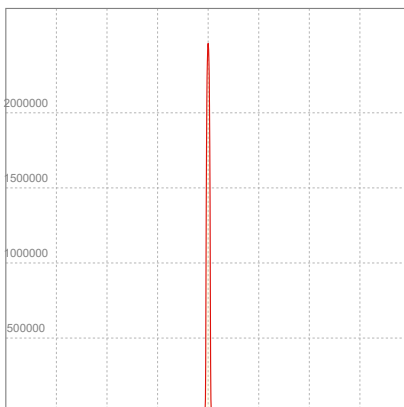
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,5°	4,6°	5,2°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	2449903lx	612476lx	272211lx	153119lx	97996lx	43554lx	24499lx	10888lx	6125lx	3920lx	2722lx	1531lx	980lx
Footcand.	227603fcd	56901fcd	25289fcd	14225fcd	9104fcd	4046fcd	2276fcd	1012fcd	569fcd	364fcd	253fcd	142fcd	91fcd
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	3,1m
Beam wid.	0,2ft	0,4ft	0,6ft	0,8ft	1ft	1,5ft	2ft	3ft	4ft	5ft	6ft	8ft	10ft

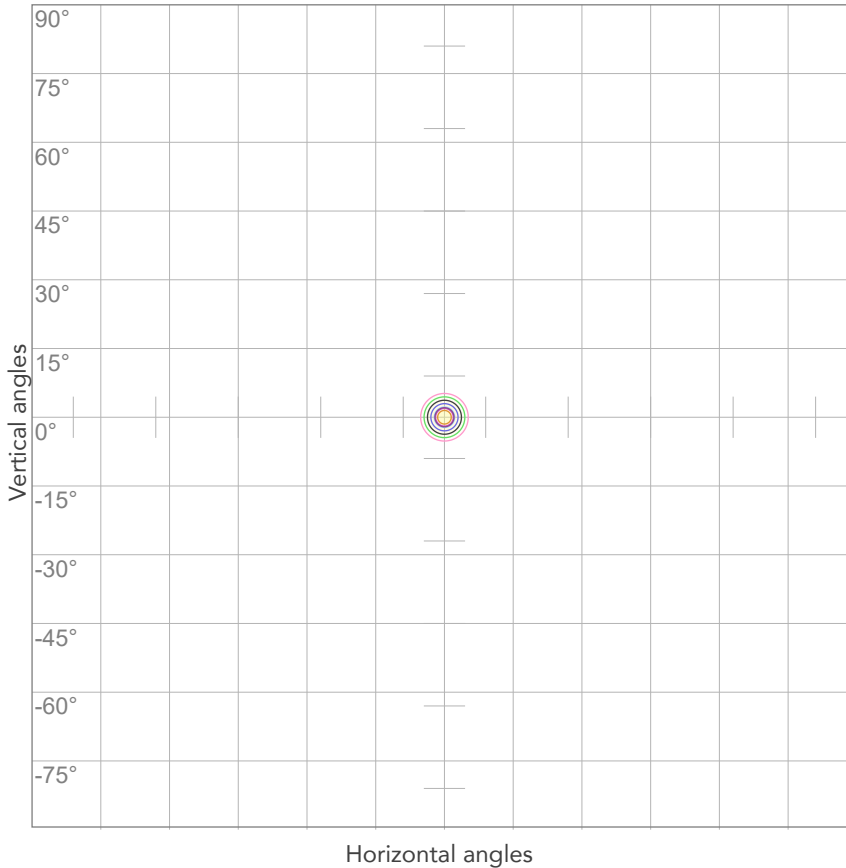
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	2,05A	449,9W	16lm/W
Power Fc			
0,98			

## ISO CANDELA DIAGRAM



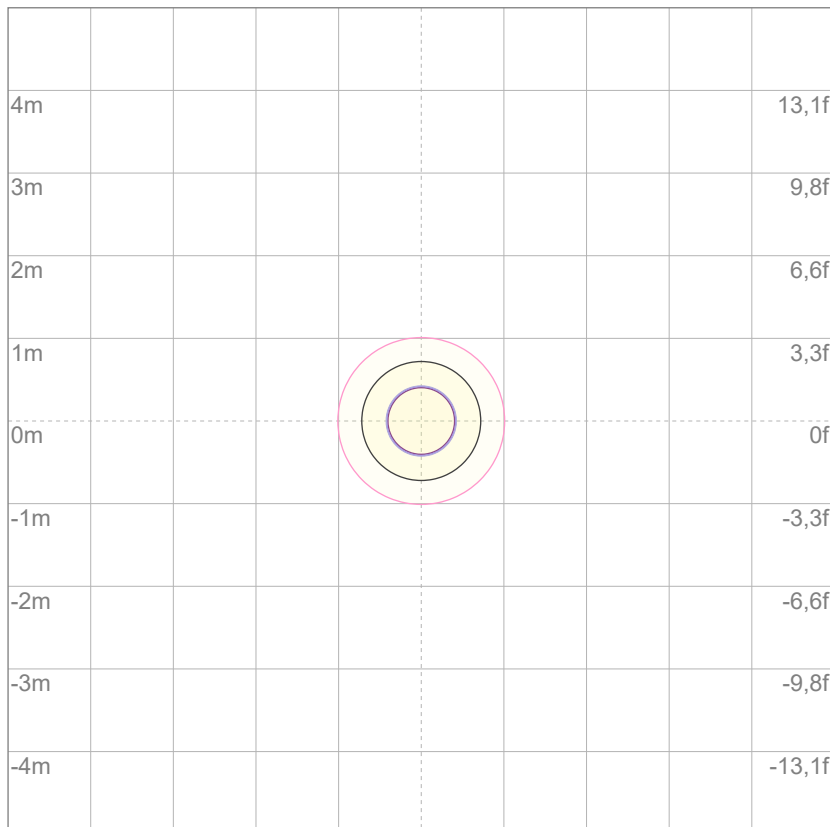
10%	244990 cd
20%	489981 cd
30%	734971 cd
40%	979961 cd
50%	1224952 cd
60%	1469942 cd
70%	1714932 cd
80%	1959923 cd

Conditions:

Number of c-planes: 2

Candela at center: 2449903 cd

## ISO LUX DIAGRAM



3%	735 lx
5%	1225 lx
10%	2450 lx
30%	7350 lx
50%	12,2K lx

Conditions:

Number of c-planes: 2

Lux at center: 24,5K lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

1720 lm

Peak candela output:

5807 cd

Light quality:

CRI: 92,2

Color temperature:

2784 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Max Zoom

Target:

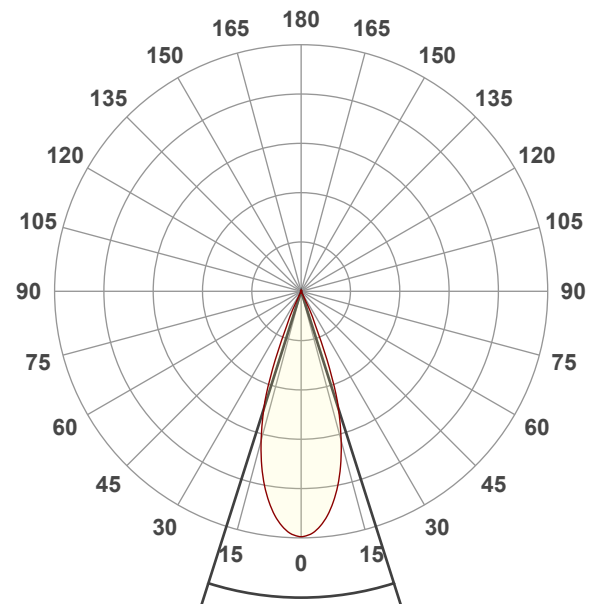
CTO 3200K

Operator:

Salvatore Giglio

Date and time:

26/05/2023 15:55:37

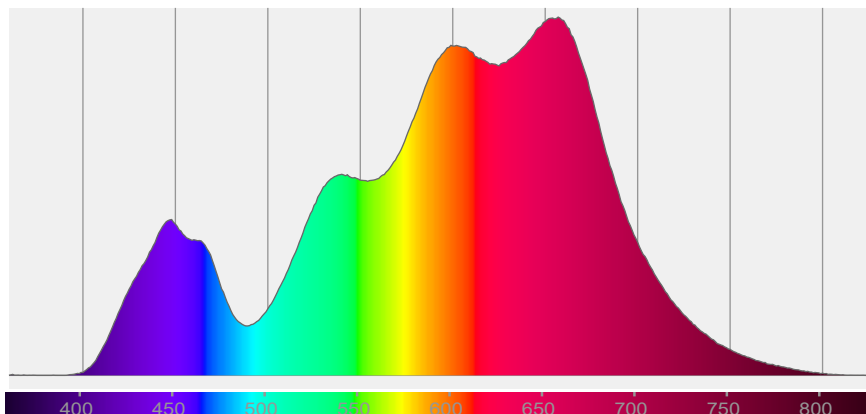


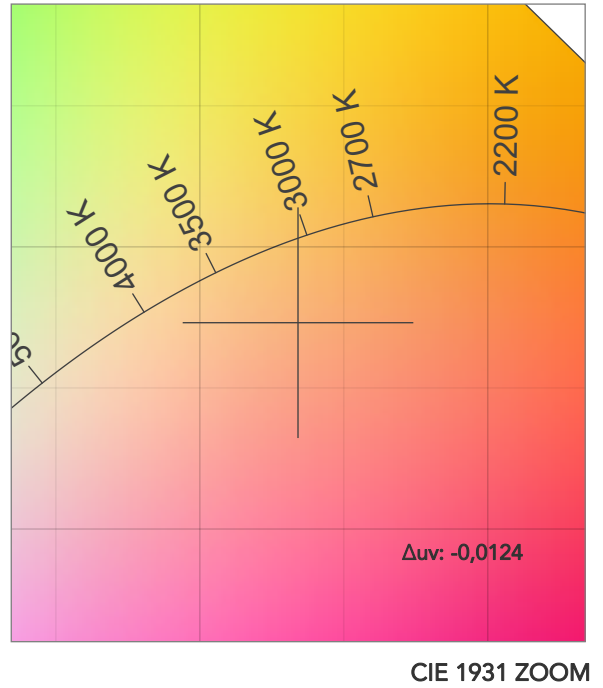
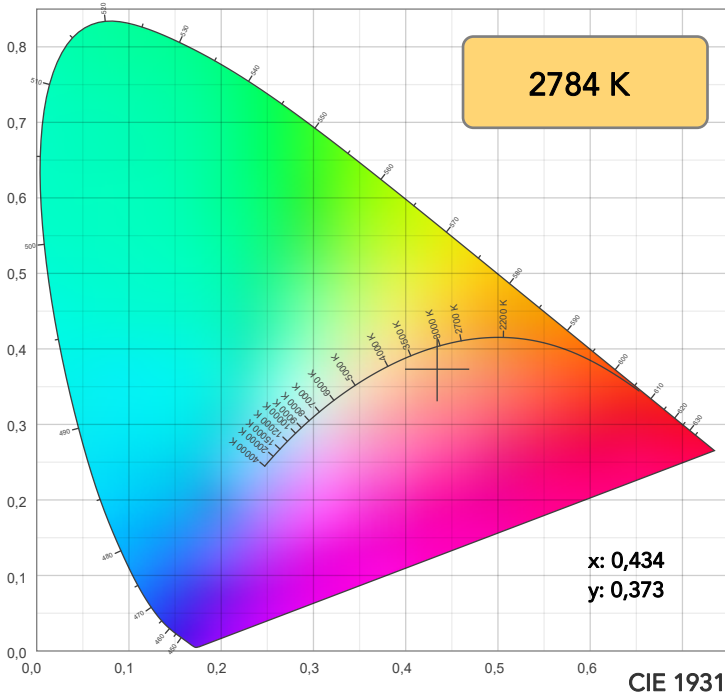
Beam angle 50%: 35,3°

Field angle 10%: 48,5°

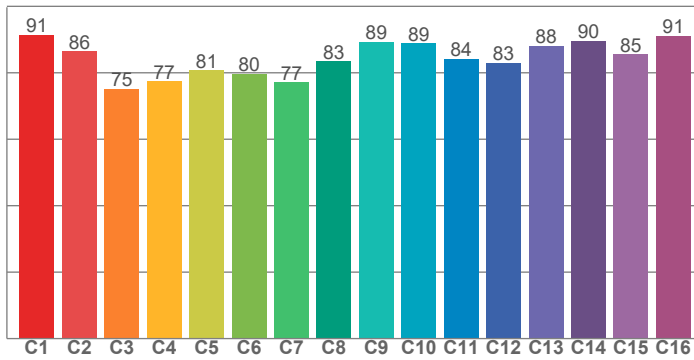
Cut off angle 2.5%: 52,2°

Spectra

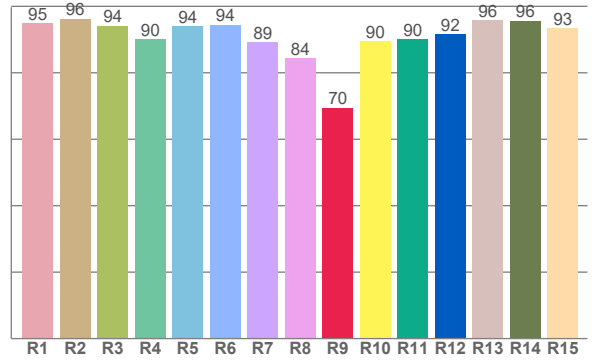




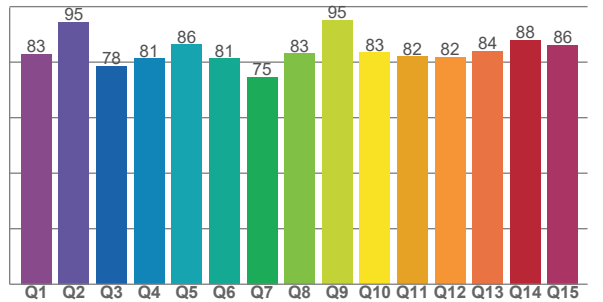
TM30: 84,6



CRI: 92,2 (R1-R8)



CQS: 83,3



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94,8	96,3	94,2	90,0	94,1	94,5	89,1	84,3	69,5	89,6	90,0	91,7	95,9	95,7	93,4

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
91,3	86,4	75,2	77,4	80,7	79,6	77,2	83,4	89,3	88,8	84,1	82,9	88,0	89,5	85,5	91,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,9	94,5	78,5	81,3	86,4	81,3	74,6	83,1	95,1	83,5	82,0	81,7	84,0	88,0	86,2

COLOR PARAMETERS

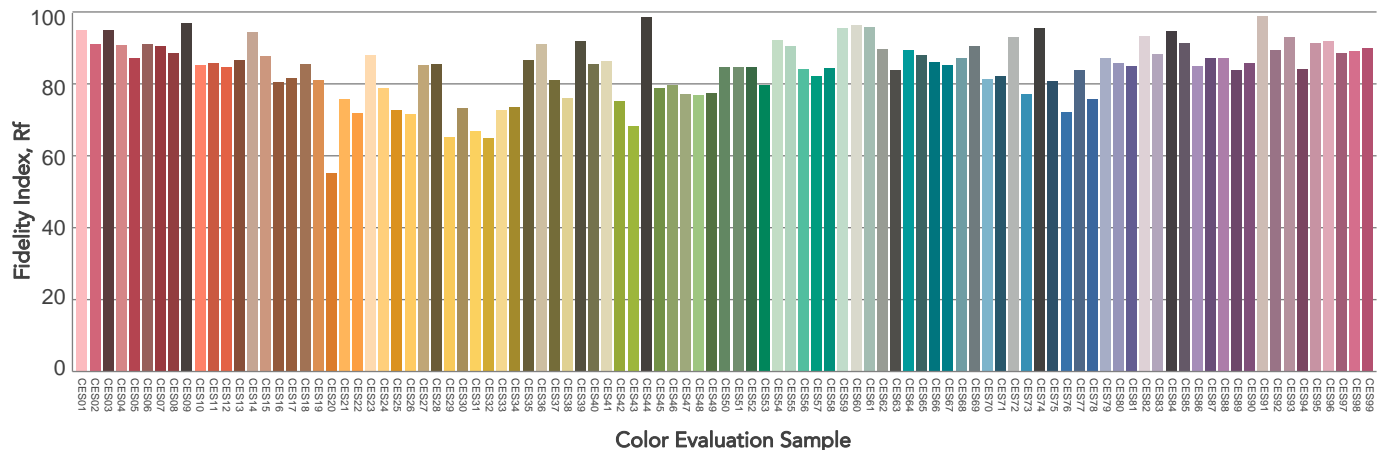
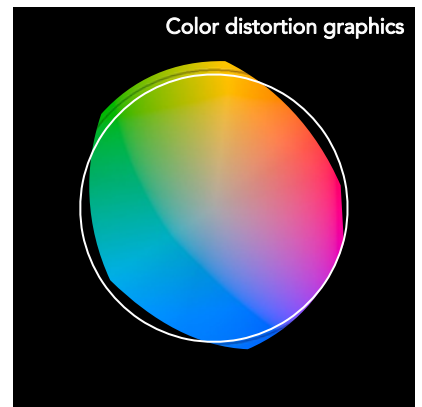
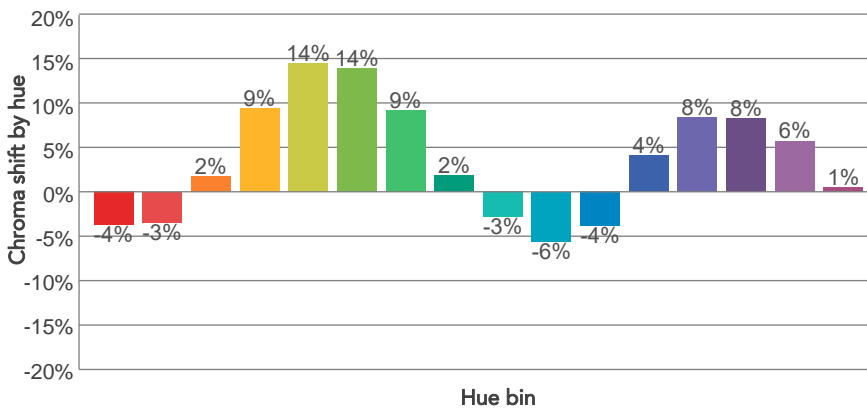
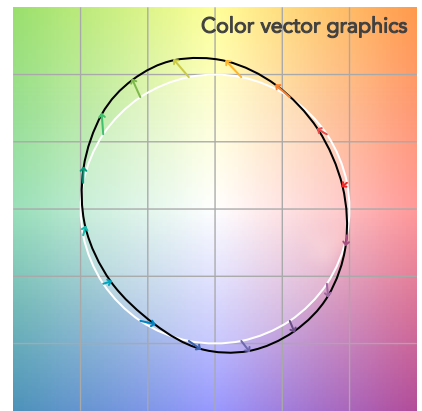
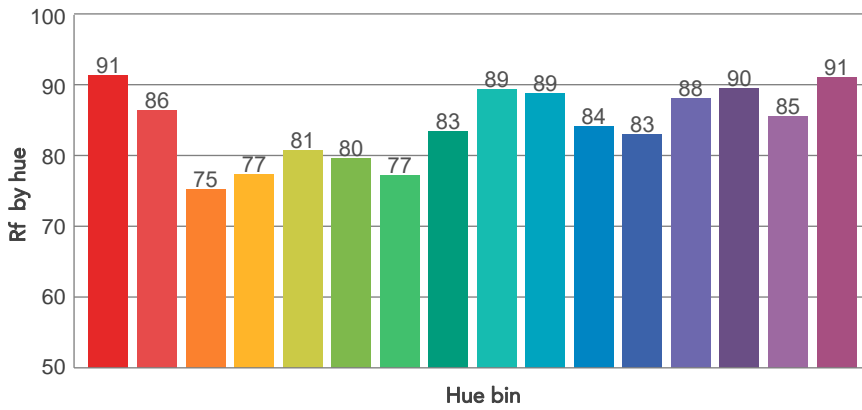
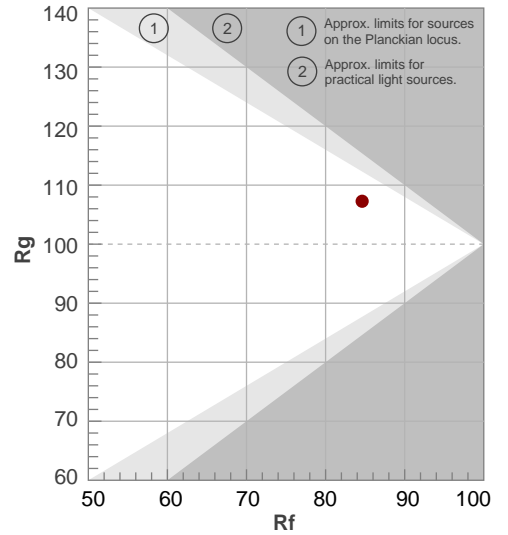
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2784 K	92,2	69,5	84,6	107,3	83,3	74	0,434	0,373	-0,0124

# TM30 DETAILS

**Rf 84,6**  
Fidelity index Rf

**Rg 107,3**  
Gammut index

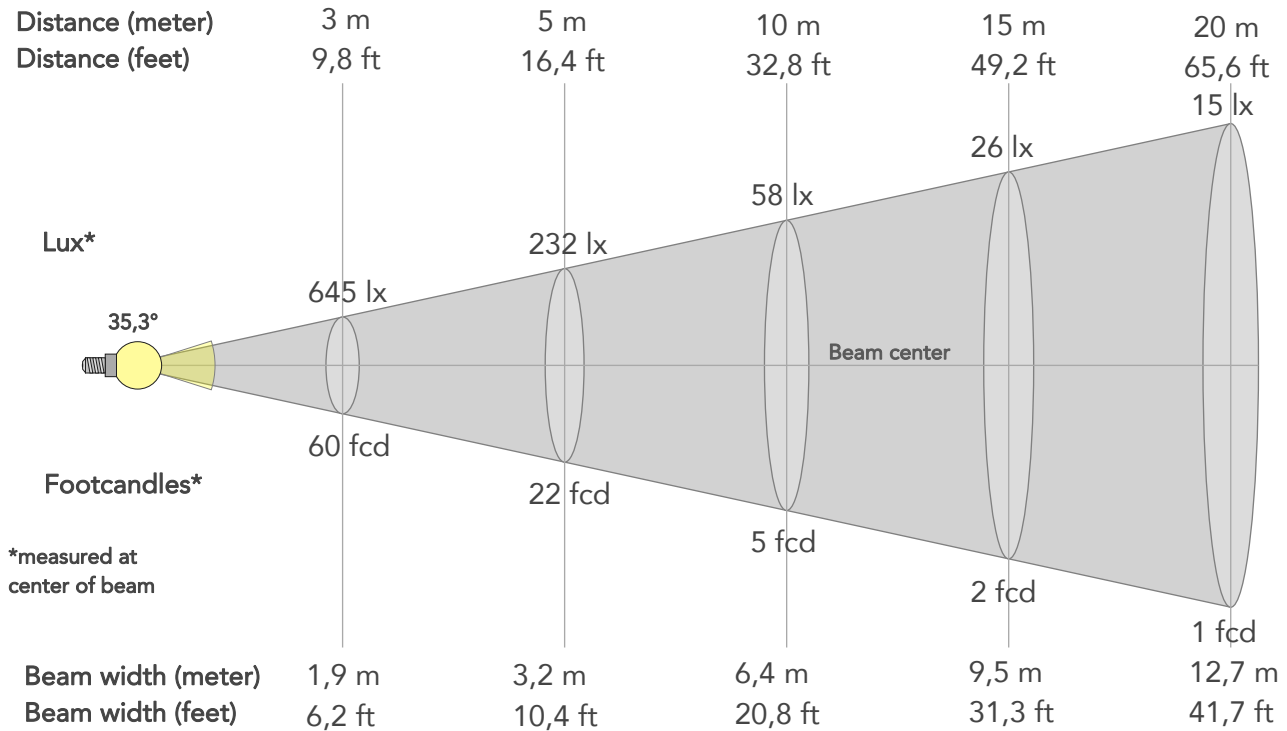
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	86	-3%	7%
3	75	2%	13%
4	77	9%	13%
5	81	14%	8%
6	80	14%	-2%
7	77	9%	-12%
8	83	2%	-11%
9	89	-3%	-6%
10	89	-6%	2%
11	84	-4%	10%
12	83	4%	9%
13	88	8%	4%
14	90	8%	-2%
15	85	6%	-7%
16	91	1%	-7%



# BEAM DETAILS



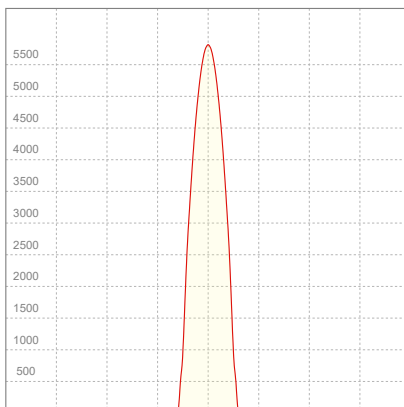
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35,3°	48,5°	52,2°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	5807lx	1452lx	645lx	363lx	232lx	103lx	58lx	26lx	15lx	9lx	6lx	4lx	2lx
Footcand.	539fcd	135fcd	60fcd	34fcd	22fcd	10fcd	5fcd	2fcd	1fcd	1fcd	1fcd	0fcd	0fcd
Beam wid.	0,6m	1,3m	1,9m	2,5m	3,2m	4,8m	6,4m	9,5m	12,7m	15,9m	19,1m	25,4m	31,8m
Beam wid.	2,1ft	4,2ft	6,2ft	8,3ft	10,4ft	15,6ft	20,8ft	31,3ft	41,7ft	52,1ft	62,5ft	83,4ft	104,2ft

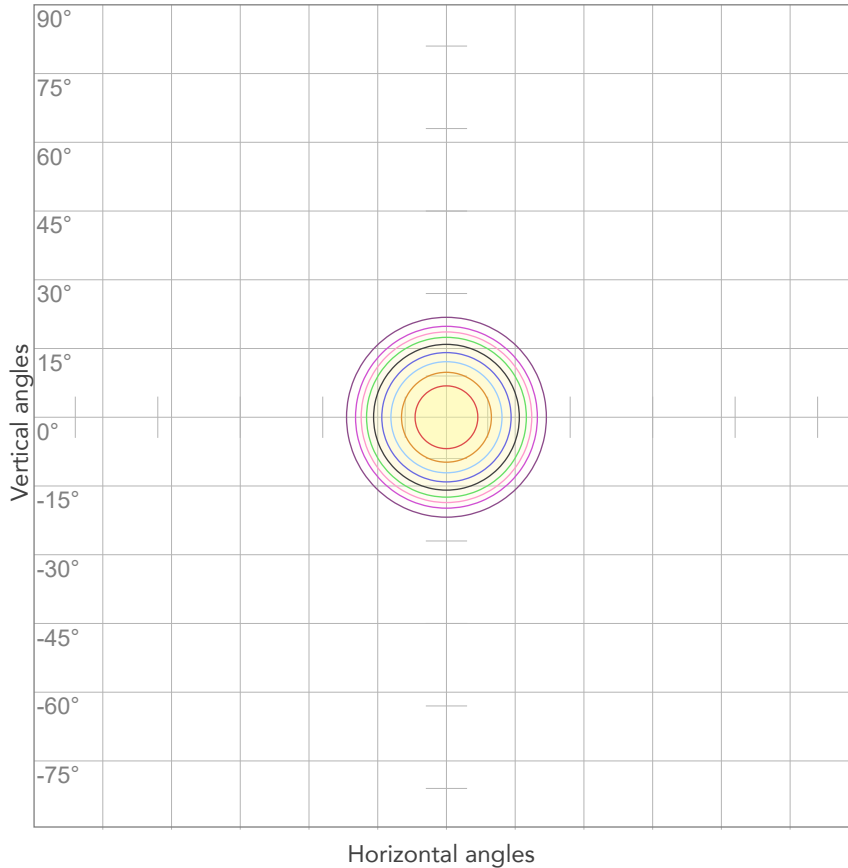
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	2,04A	450,4W	4lm/W

## ISO CANDELA DIAGRAM



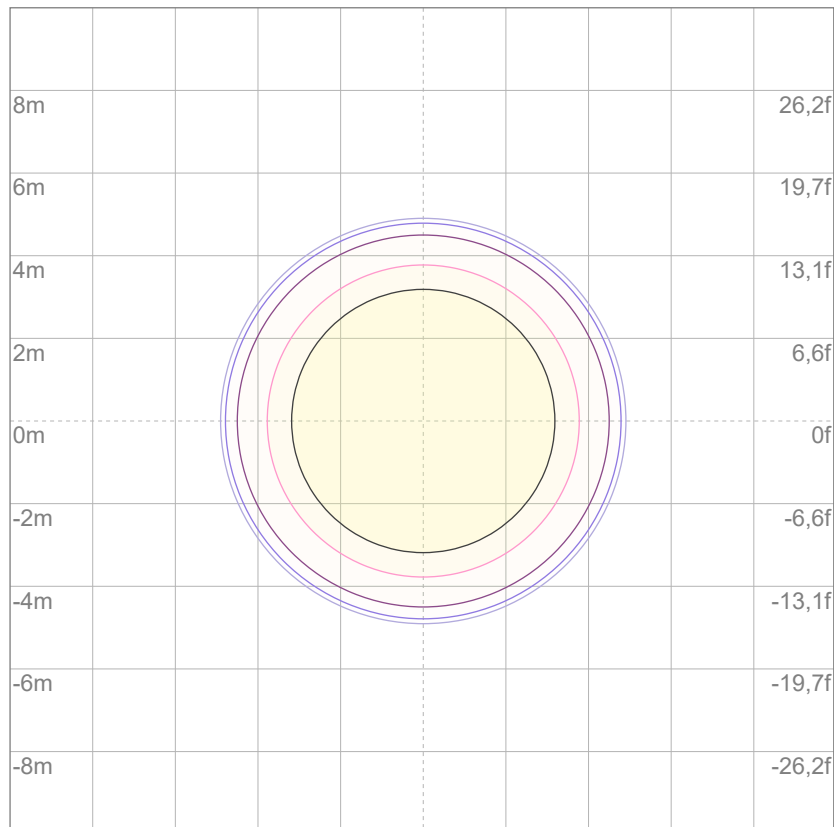
10%	581 cd
20%	1161 cd
30%	1742 cd
40%	2323 cd
50%	2903 cd
60%	3484 cd
70%	4065 cd
80%	4645 cd

Conditions:

Number of c-planes: 2

Candela at center: 5807 cd

## ISO LUX DIAGRAM



3%	1,74 lx
5%	2,90 lx
10%	5,81 lx
30%	17,4 lx
50%	29,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 58,1 lx

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



Total lumen output:

1627 lm

Peak candela output:

51920 cd

Light quality:

CRI: 92,5

Color temperature:

2806 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Med Zoom

Target:

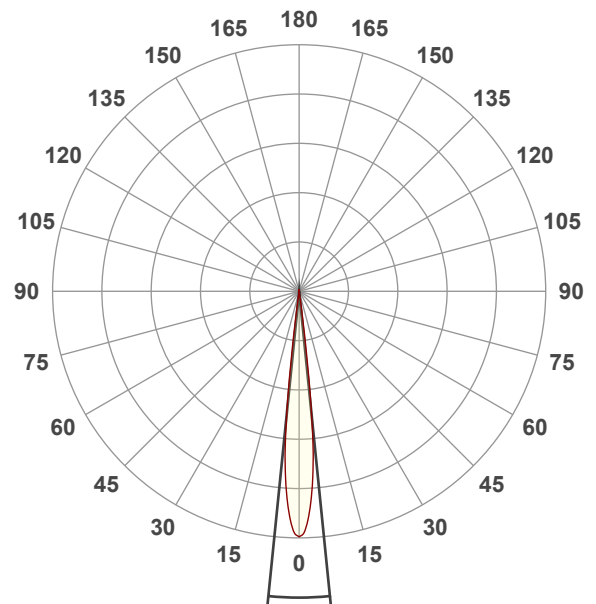
CTO 3200K

Operator:

Salvatore Giglio

Date and time:

26/05/2023 15:20:51

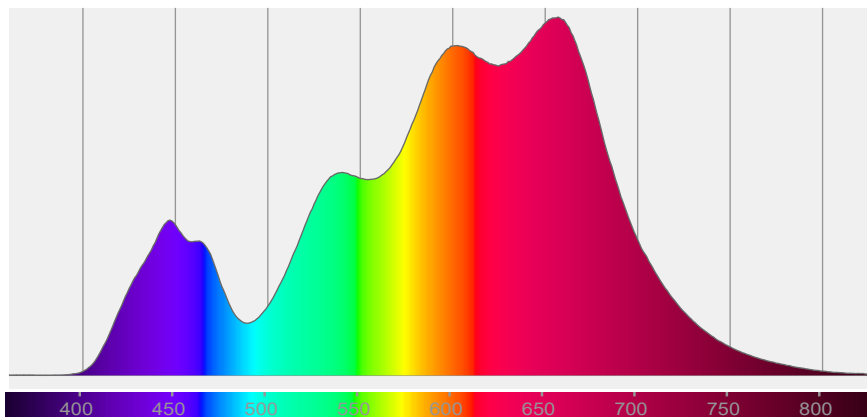


Beam angle 50%: 11,5°

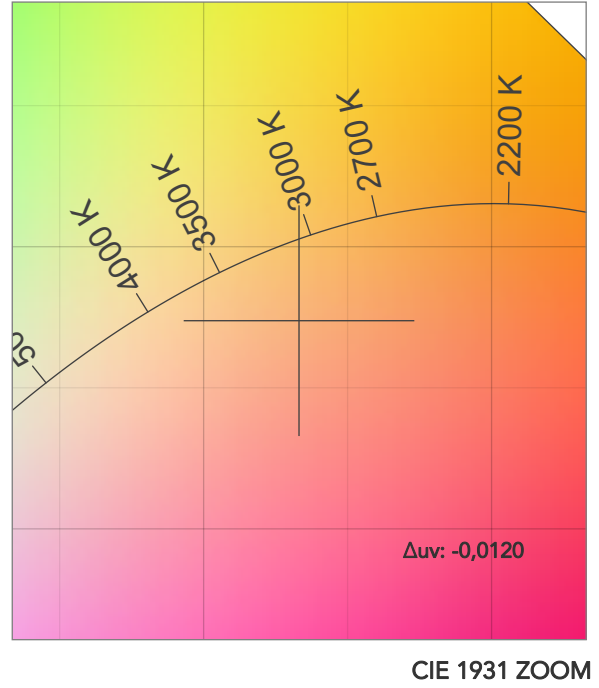
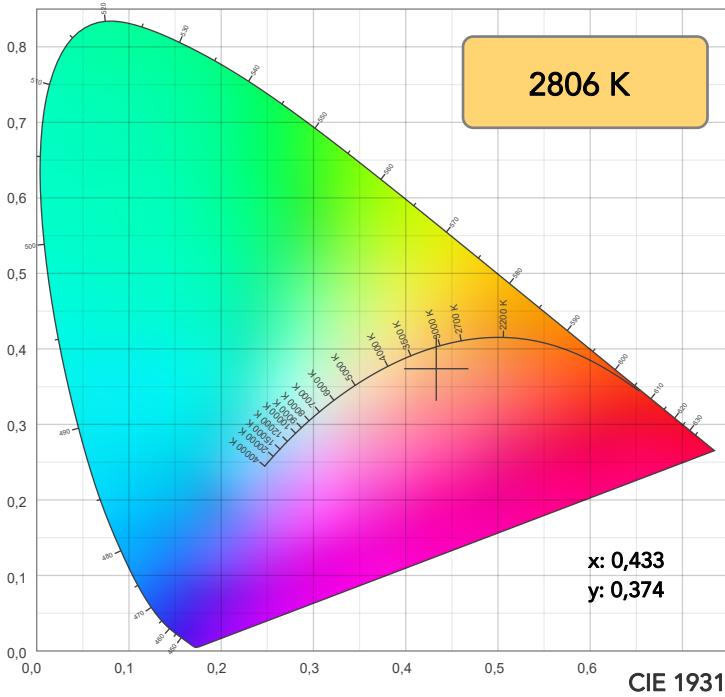
Field angle 10%: 15,2°

Cut off angle 2.5%: 16,1°

Spectra

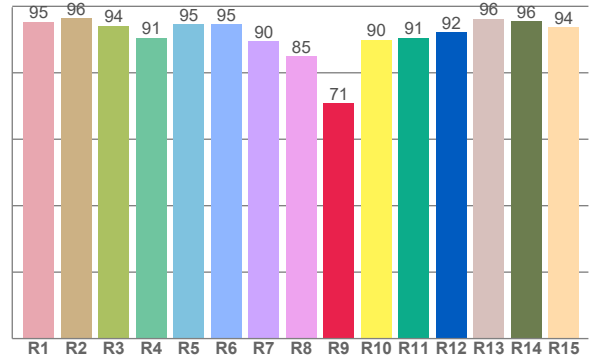
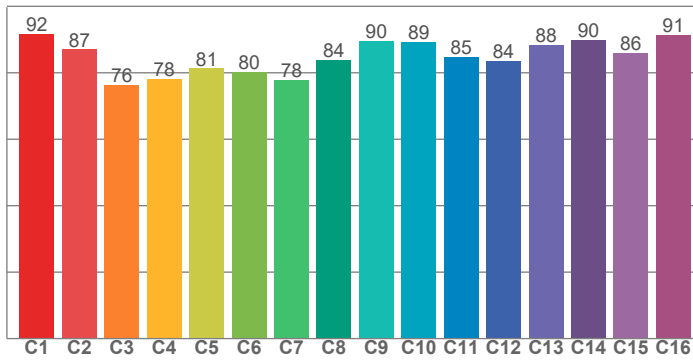






TM30: 85,2

CRI: 92,5 (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
95,3	96,4	94,1	90,5	94,6	94,7	89,5	85,0	70,8	90,0	90,6	92,1	96,3	95,6	93,8

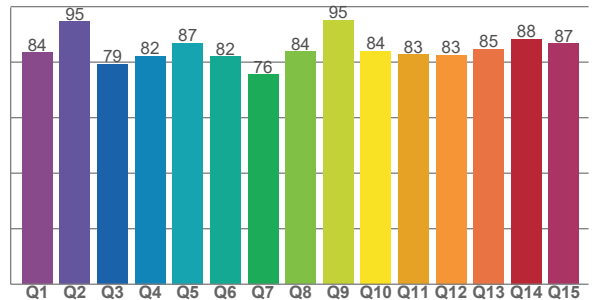
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,7	87,1	76,3	78,2	81,3	80,3	77,9	83,9	89,7	89,3	84,8	83,6	88,4	89,9	86,0	91,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,5	94,6	79,2	82,2	87,0	82,0	75,6	83,8	95,1	84,0	82,7	82,6	84,8	88,4	86,8

CQS: 83,9



COLOR PARAMETERS

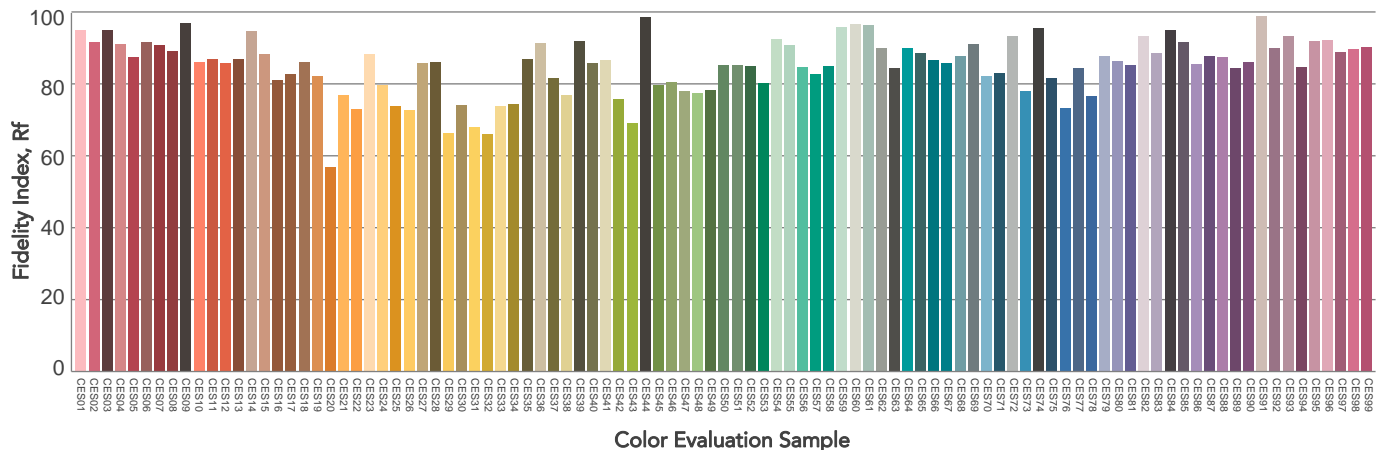
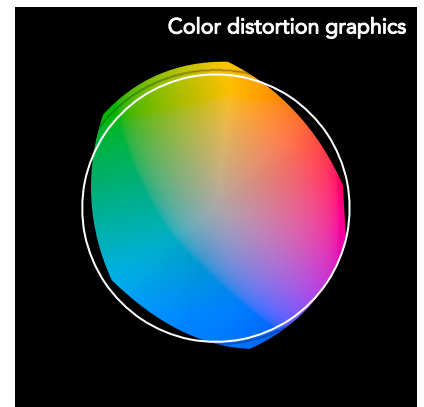
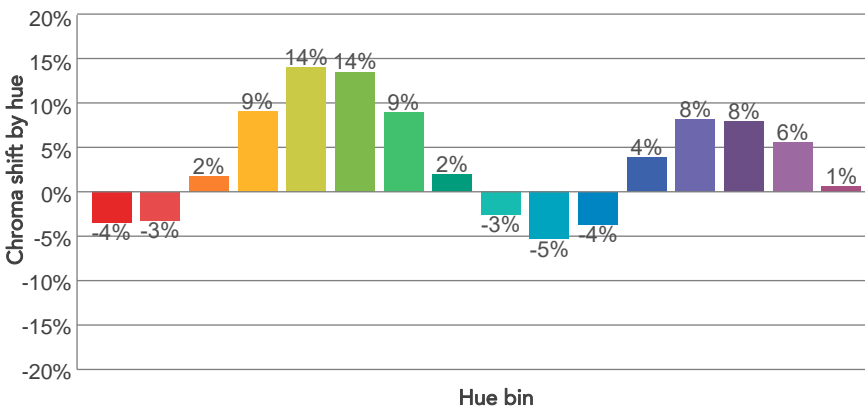
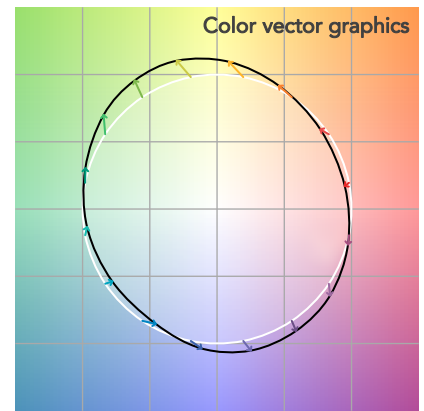
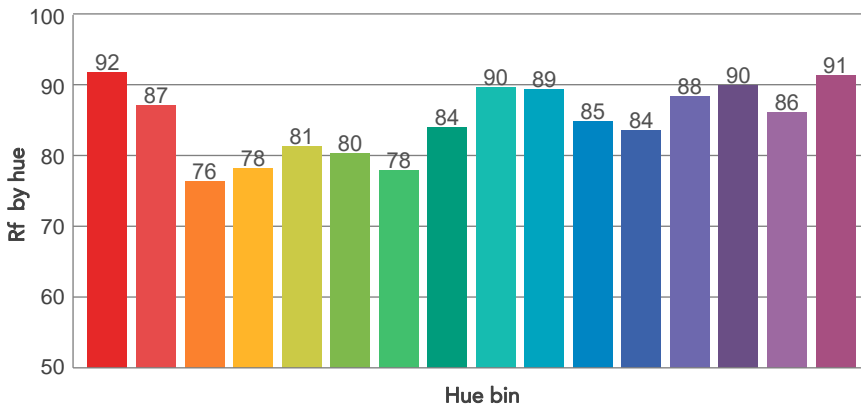
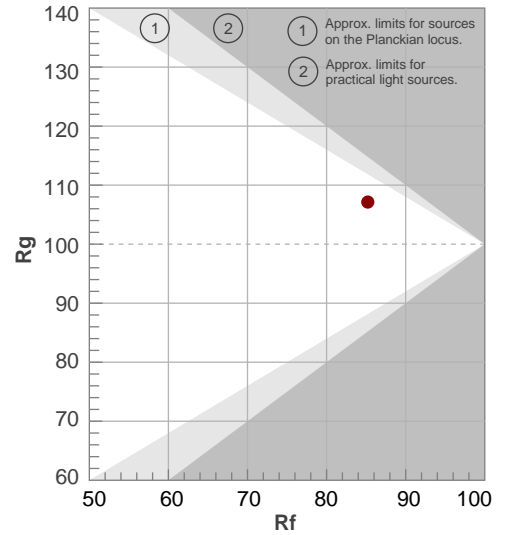
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
2806 K	92,5	70,8	85,2	107,1	83,9	75	0,433	0,374	-0,0120

# TM30 DETAILS

**Rf 85,2**  
Fidelity index Rf

**Rg 107,1**  
Gammut index

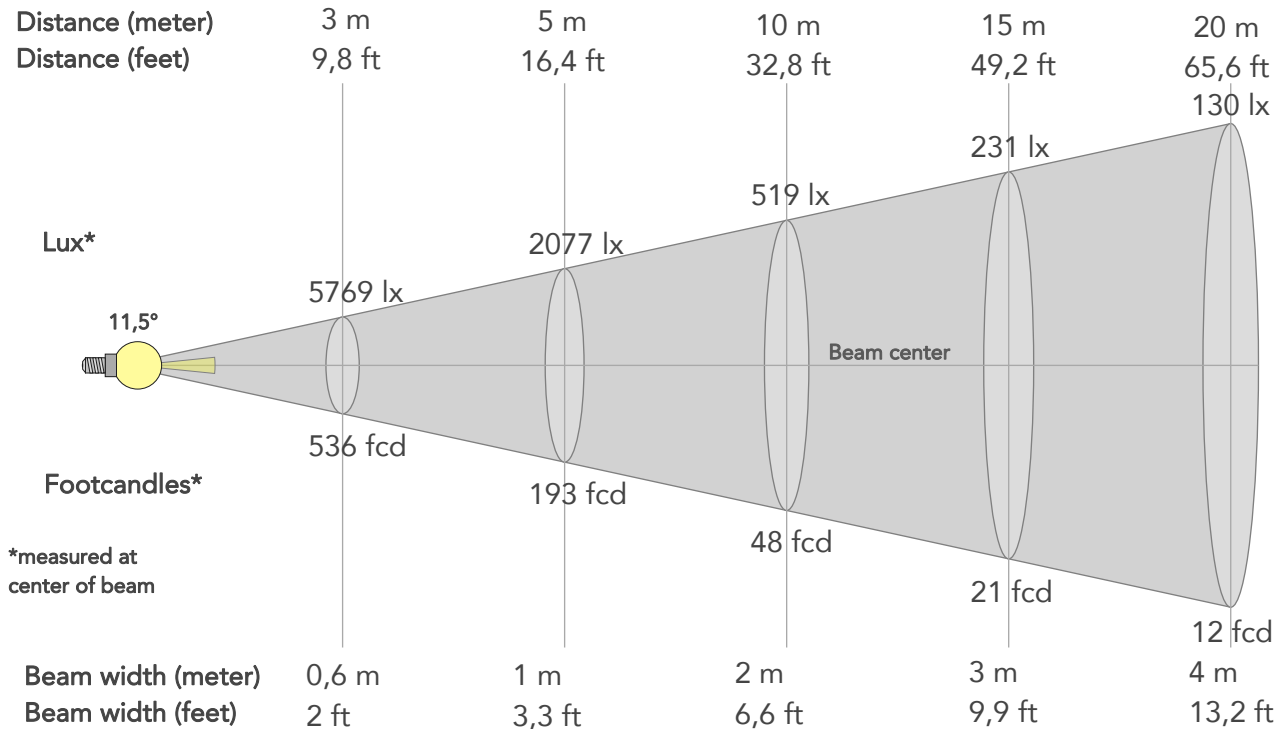
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	87	-3%	6%
3	76	2%	13%
4	78	9%	13%
5	81	14%	8%
6	80	14%	-2%
7	78	9%	-11%
8	84	2%	-11%
9	90	-3%	-6%
10	89	-5%	2%
11	85	-4%	9%
12	84	4%	9%
13	88	8%	4%
14	90	8%	-1%
15	86	6%	-7%
16	91	1%	-7%



# BEAM DETAILS



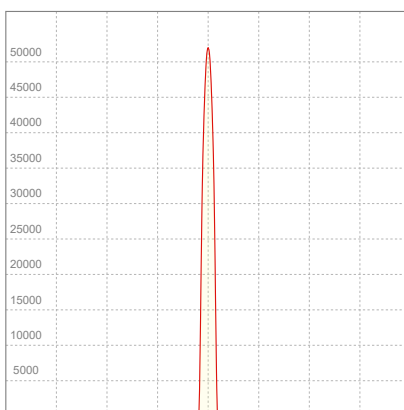
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,5°	15,2°	16,1°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	51920lx	12980lx	5769lx	3245lx	2077lx	923lx	519lx	231lx	130lx	83lx	58lx	32lx	21lx
Footcand.	4824fcd	1206fcd	536fcd	301fcd	193fcd	86fcd	48fcd	21fcd	12fcd	8fcd	5fcd	3fcd	2fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	2m	3m	4m	5m	6,1m	8,1m	10,1m
Beam wid.	0,7ft	1,3ft	2ft	2,6ft	3,3ft	5ft	6,6ft	9,9ft	13,2ft	16,6ft	19,9ft	26,5ft	33,1ft

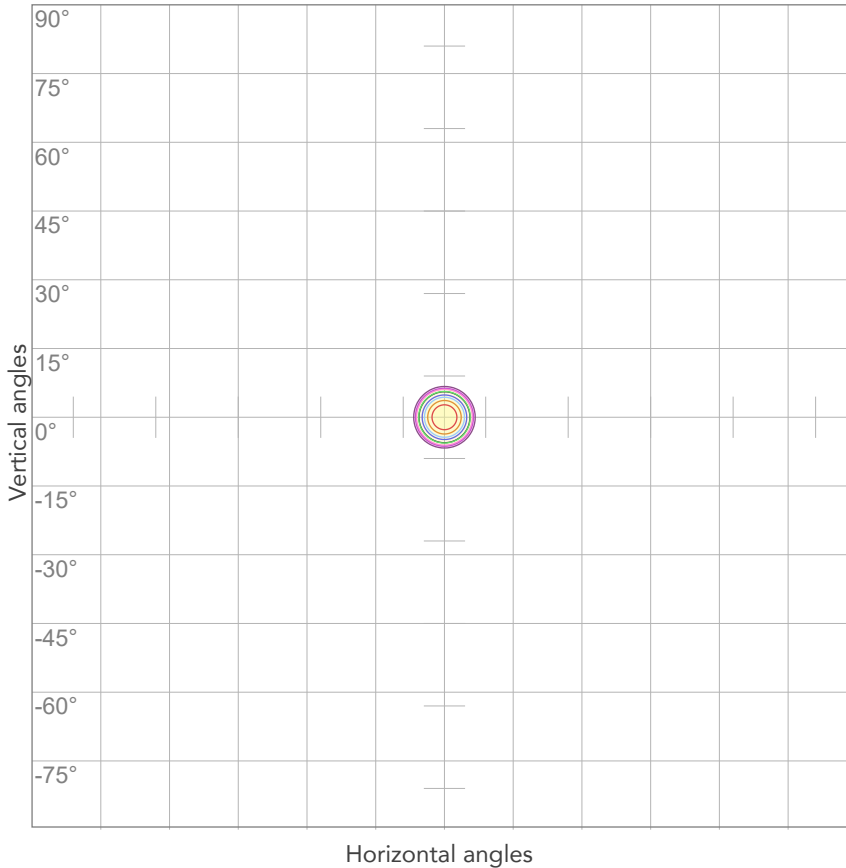
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	2,06A	450,6W	4lm/W

## ISO CANDELA DIAGRAM



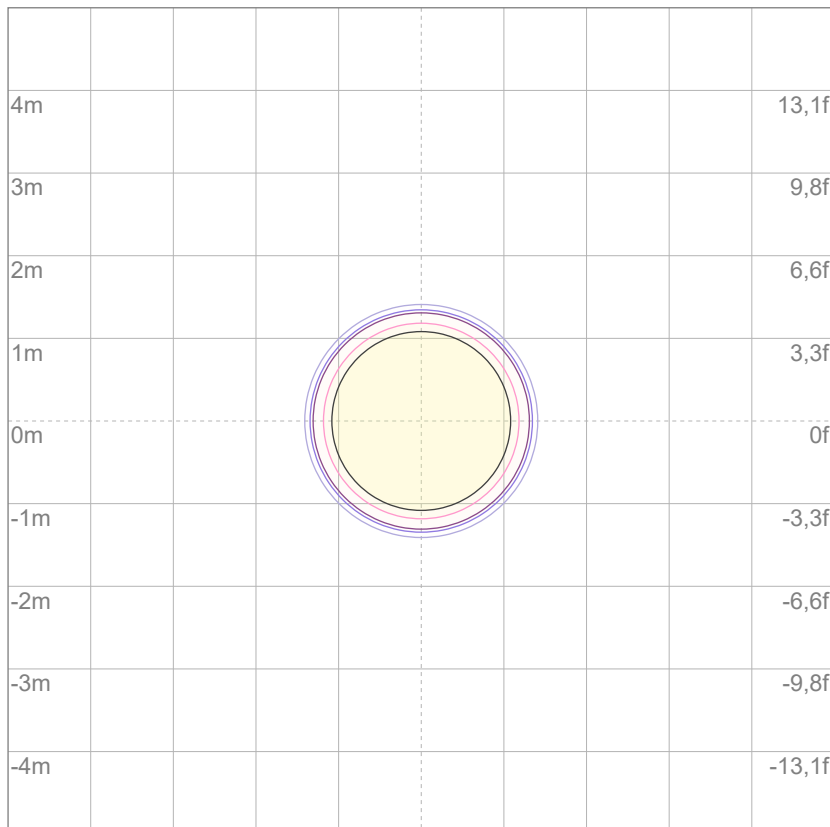
10%	5192 cd
20%	10384 cd
30%	15576 cd
40%	20768 cd
50%	25960 cd
60%	31152 cd
70%	36344 cd
80%	41536 cd

Conditions:

Number of c-planes: 2

Candela at center: 51920 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	15,6 lx
5%	26,0 lx
10%	51,9 lx
30%	156 lx
50%	260 lx

Conditions:

Number of c-planes: 2

Lux at center: 519 lx

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



Total lumen output:

1184 lm

Peak candela output:

386201 cd

Light quality:

CRI: 91,2

Color temperature:

2849 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Min Zoom

Target:

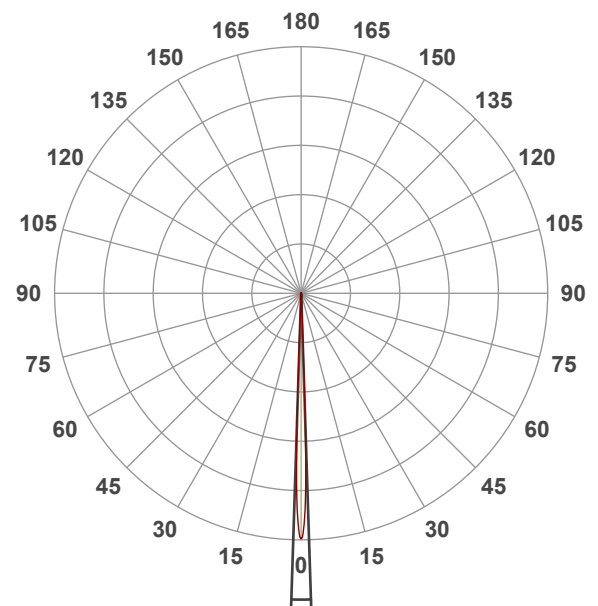
CTO 3200K

Operator:

Salvatore Giglio

Date and time:

26/05/2023 15:00:29

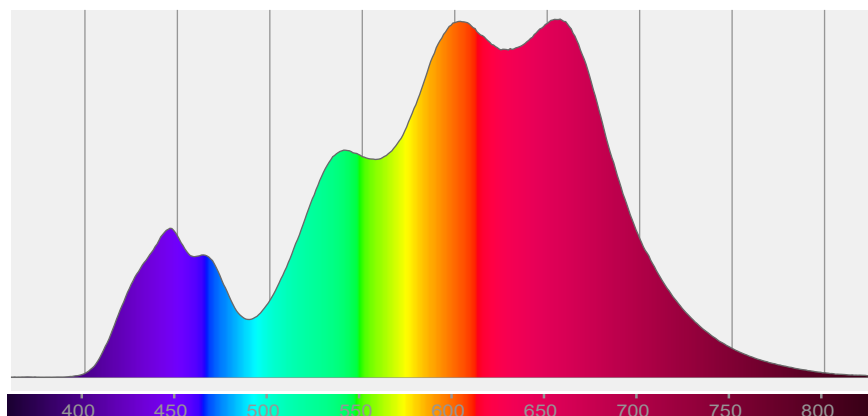


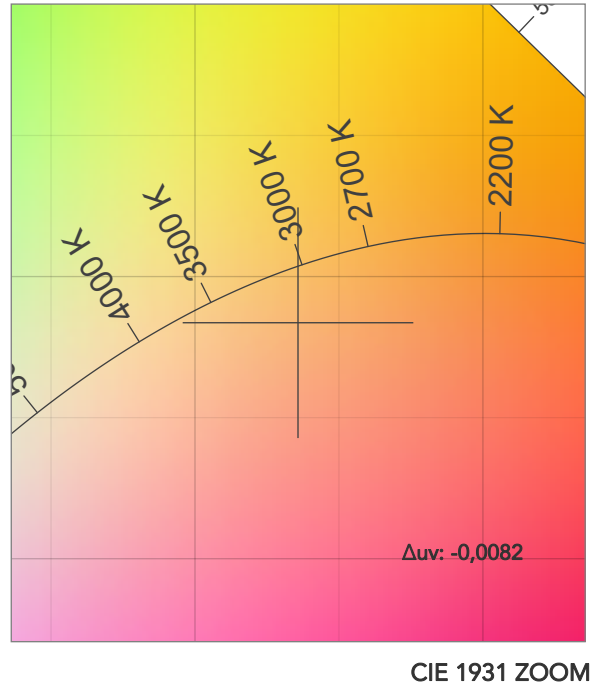
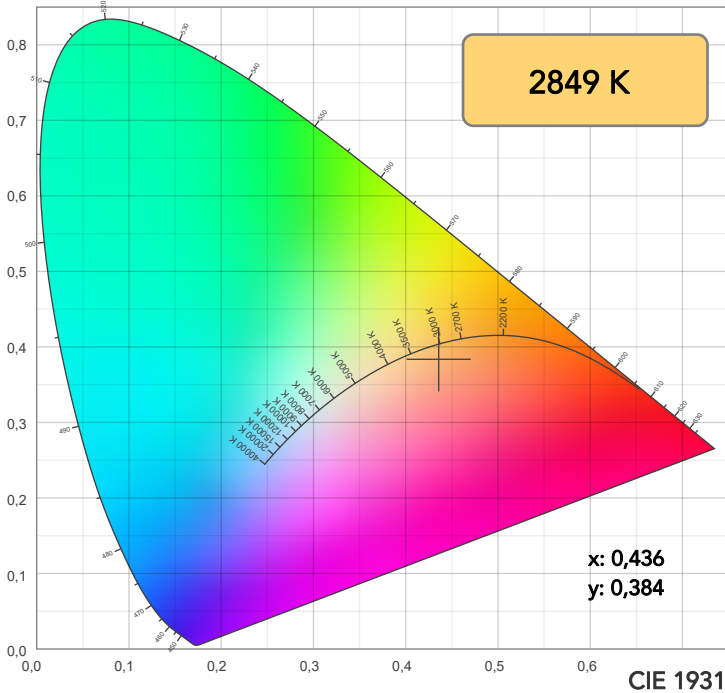
Beam angle 50%: 3,7°

Field angle 10%: 4,6°

Cut off angle 2.5%: 5°

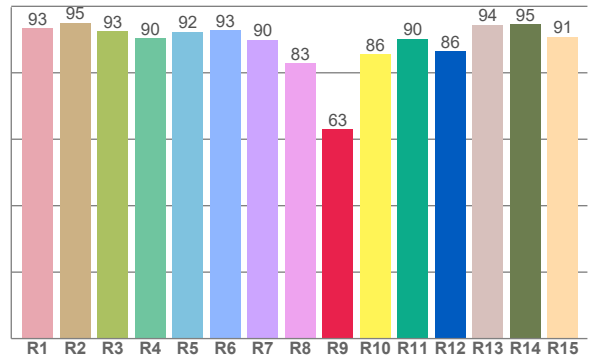
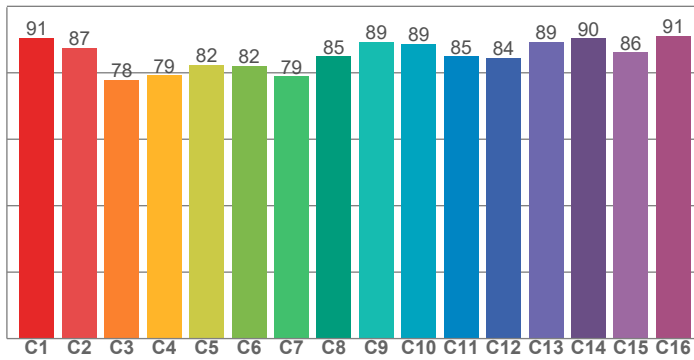
Spectra





TM30: 85,6

CRI: 91,2 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,5	95,1	92,6	90,4	92,3	92,8	90,0	82,8	62,9	85,5	90,3	86,5	94,5	94,6	90,8

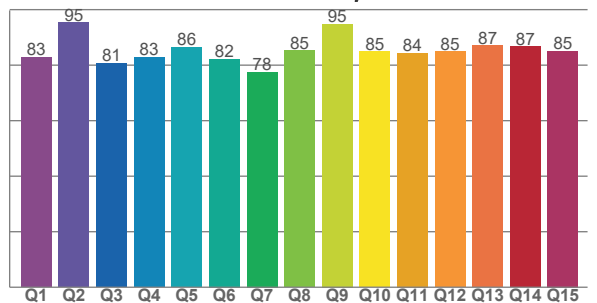
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,6	87,4	77,9	79,2	82,4	82,0	78,9	85,0	89,4	88,7	84,9	84,5	89,2	90,4	86,2	91,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82,8	95,3	80,7	82,8	86,4	82,3	77,5	85,3	94,9	84,9	84,3	84,9	87,0	86,7	85,2

CQS: 84,6



COLOR PARAMETERS

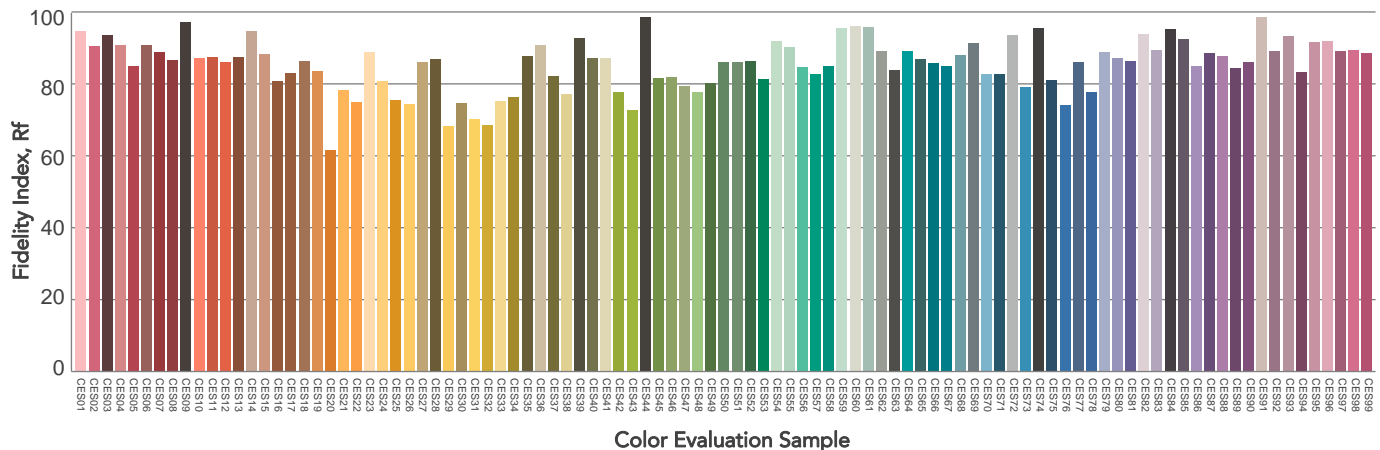
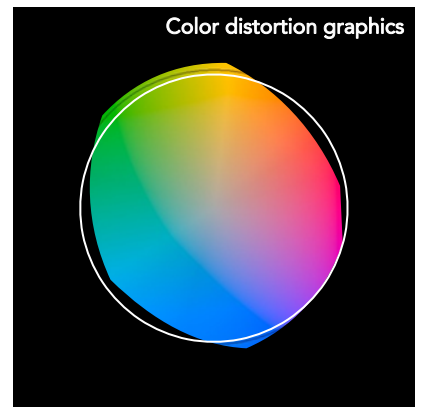
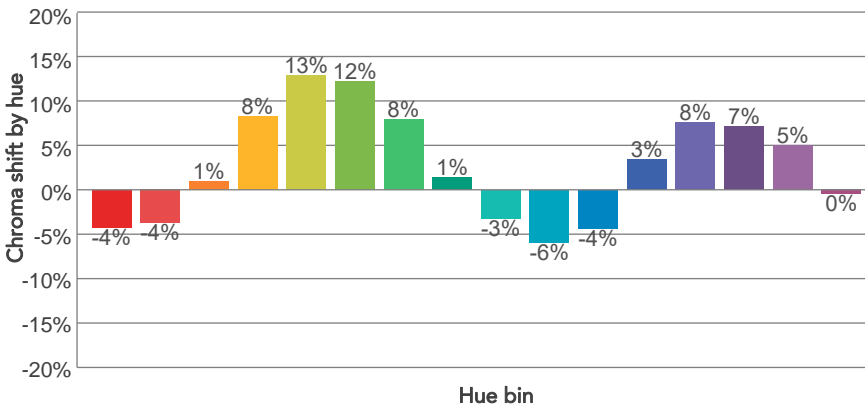
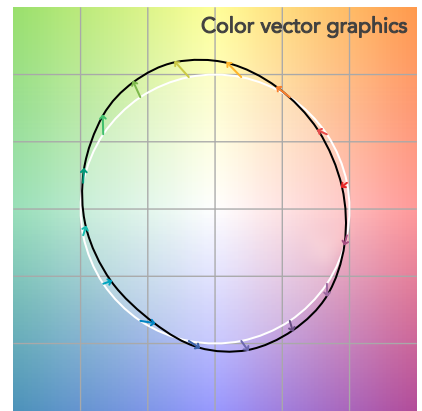
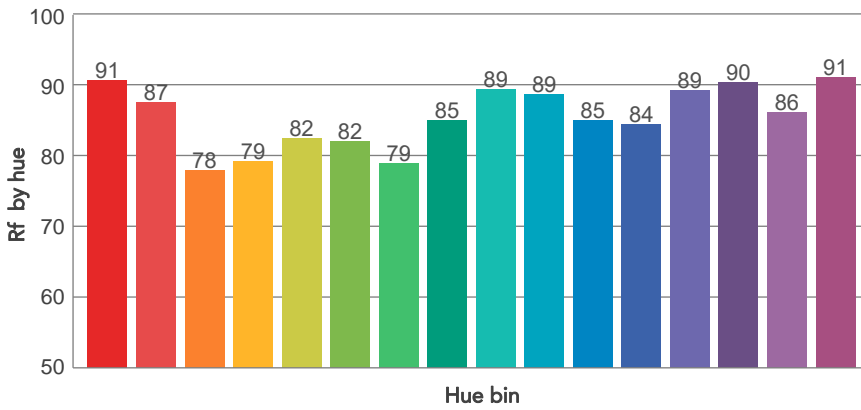
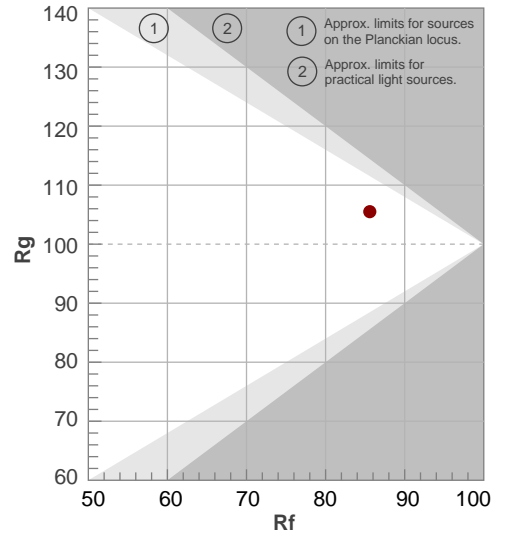
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	$\Delta uv$
2849 K	91,2	62,9	85,6	105,5	84,6	77	0,436	0,384	-0,0082

# TM30 DETAILS

**Rf 85,6**  
Fidelity index Rf

**Rg 105,5**  
Gammut index

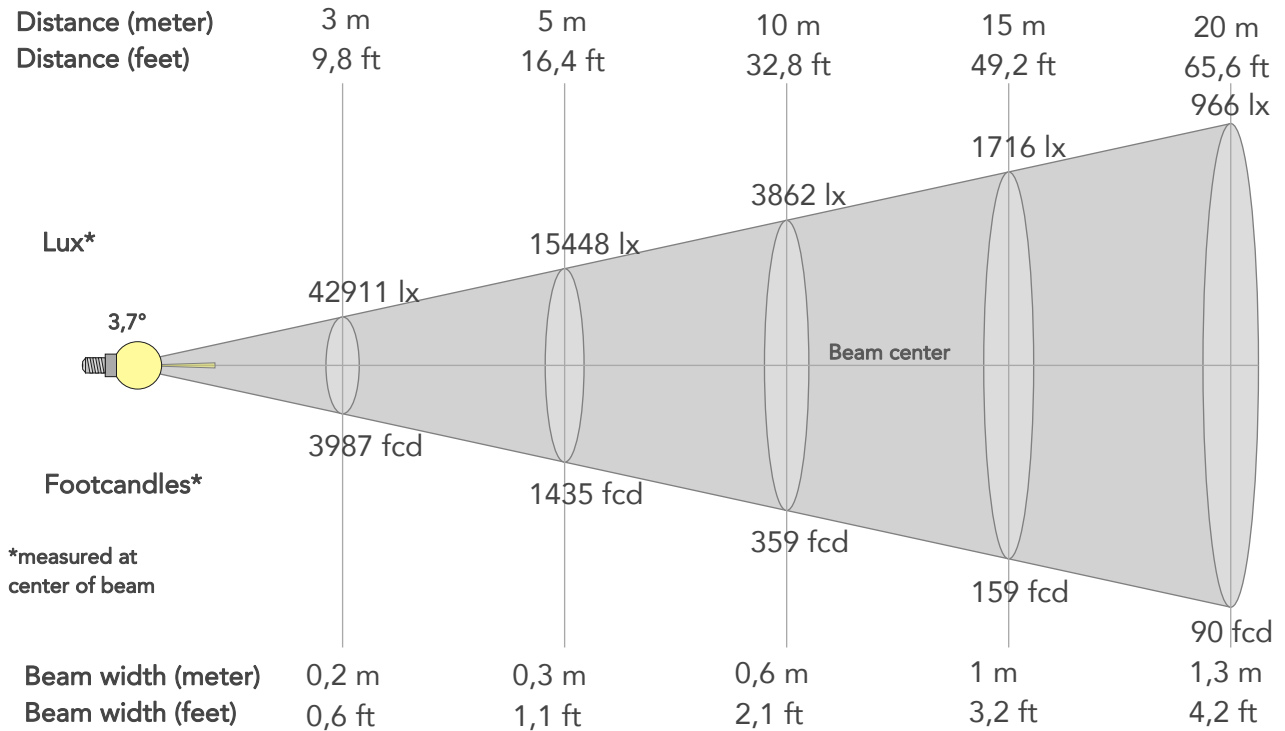
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	87	-4%	6%
3	78	1%	12%
4	79	8%	12%
5	82	13%	8%
6	82	12%	-2%
7	79	8%	-11%
8	85	1%	-10%
9	89	-3%	-6%
10	89	-6%	2%
11	85	-4%	9%
12	84	3%	8%
13	89	8%	3%
14	90	7%	-2%
15	86	5%	-7%
16	91	0%	-7%



# BEAM DETAILS



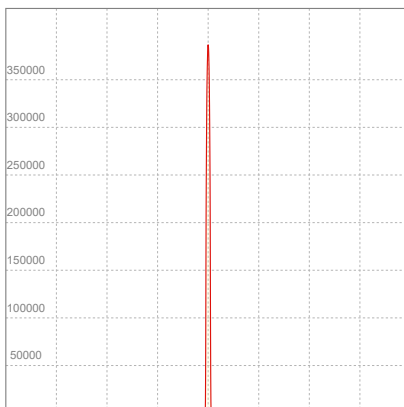
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,7°	4,6°	5°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	386201lx	96550lx	42911lx	24138lx	15448lx	6866lx	3862lx	1716lx	966lx	618lx	429lx	241lx	154lx
Footcand.	35879fcd	8970fcd	3987fcd	2242fcd	1435fcd	638fcd	359fcd	159fcd	90fcd	57fcd	40fcd	22fcd	14fcd
Beam wid.	0,1m	0,1m	0,2m	0,3m	0,3m	0,5m	0,6m	1m	1,3m	1,6m	1,9m	2,6m	3,2m
Beam wid.	0,2ft	0,4ft	0,6ft	0,8ft	1,1ft	1,6ft	2,1ft	3,2ft	4,2ft	5,3ft	6,3ft	8,4ft	10,5ft

## LINEAR DISTRIBUTION DIAGRAM

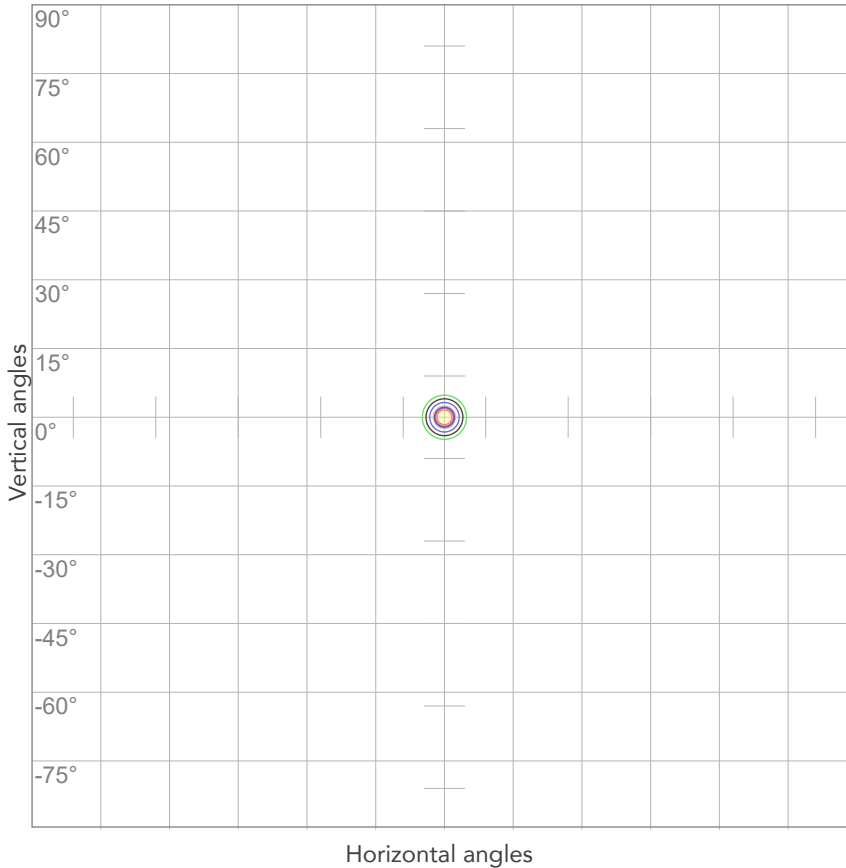


## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	2,06A	450W	3lm/W



## ISO CANDELA DIAGRAM



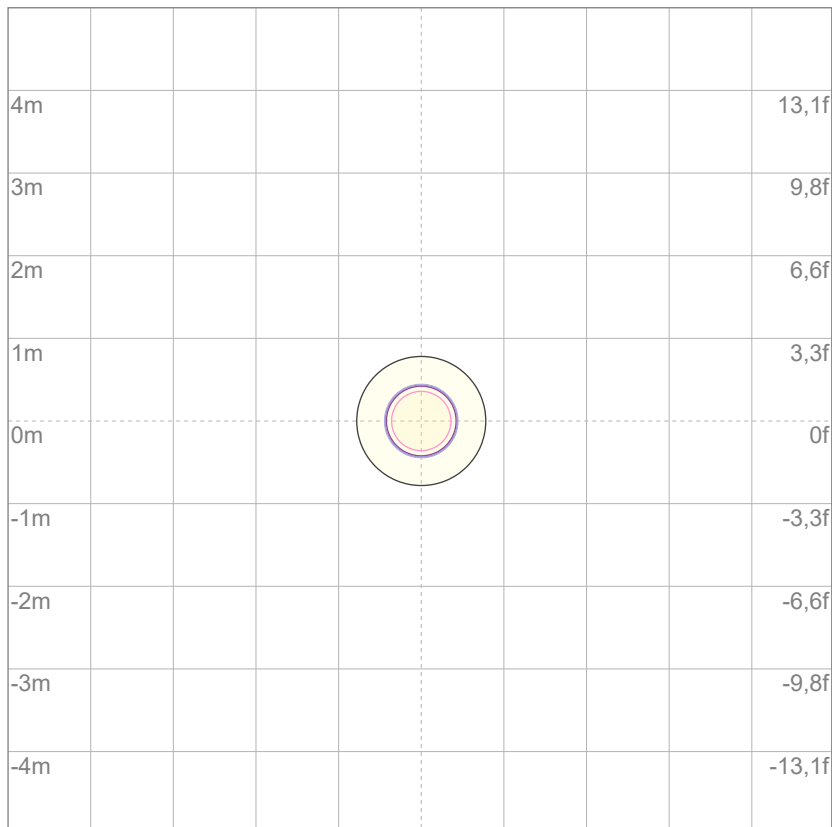
10%	38620 cd
20%	77240 cd
30%	115860 cd
40%	154481 cd
50%	193101 cd
60%	231721 cd
70%	270341 cd
80%	308961 cd

Conditions:

Number of c-planes: 2

Candela at center: 386201 cd

## ISO LUX DIAGRAM



3%	116 lx
5%	193 lx
10%	386 lx
30%	1159 lx
50%	1931 lx

Conditions:

Number of c-planes: 2

Lux at center: 3862 lx

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



Total lumen output:

5036 lm

Peak candela output:

16808 cd

Light quality:

CRI: 89,1

Color temperature:

5441 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASURAMENT CONDITIONS:**

Beam angle:

Max Zoom

Target:

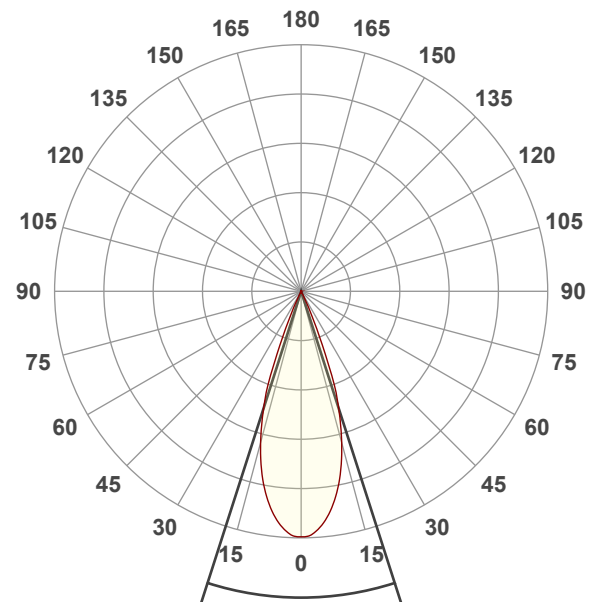
HIGH CRI

Operator:

Salvatore Giglio

Date and time:

26/05/2023 15:52:30

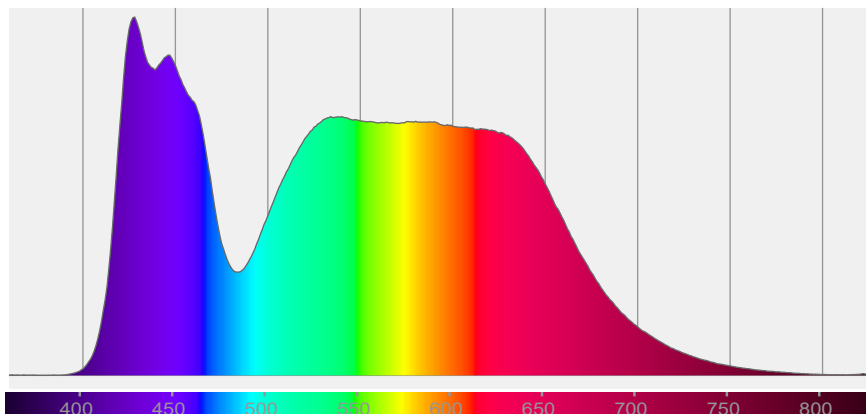


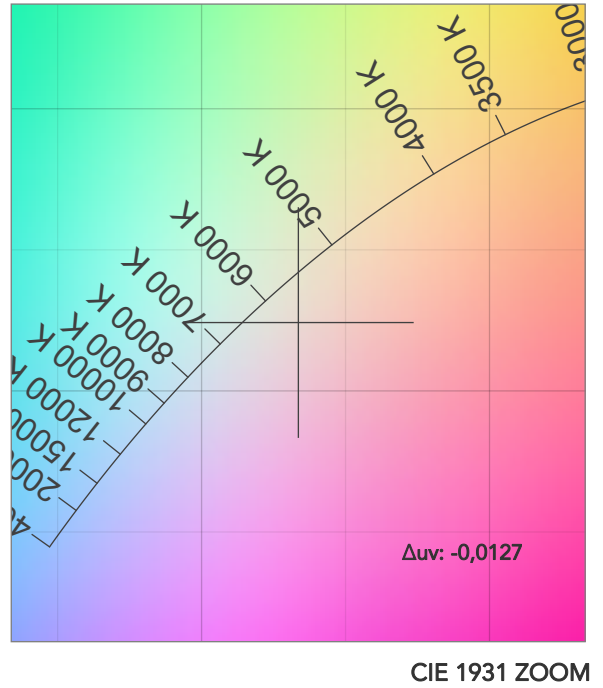
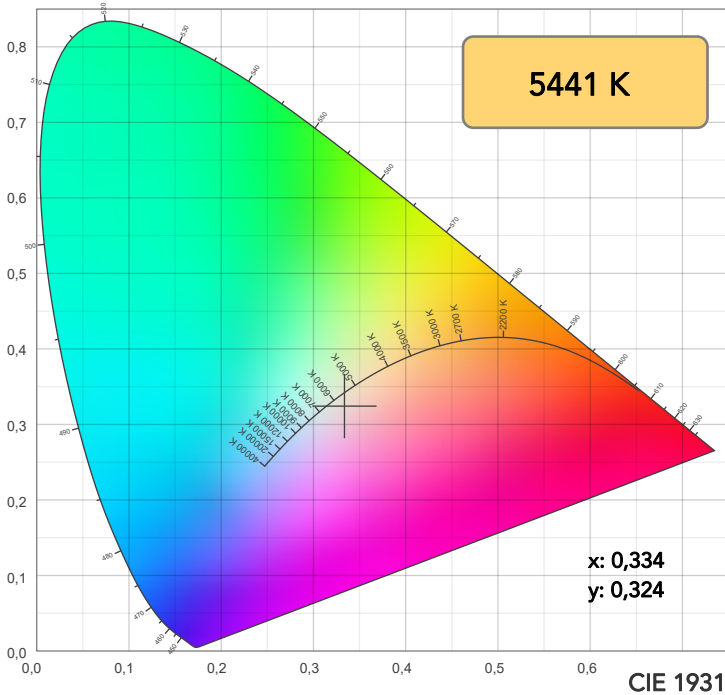
Beam angle 50%: 35,6°

Field angle 10%: 47,8°

Cut off angle 2.5%: 52,8°

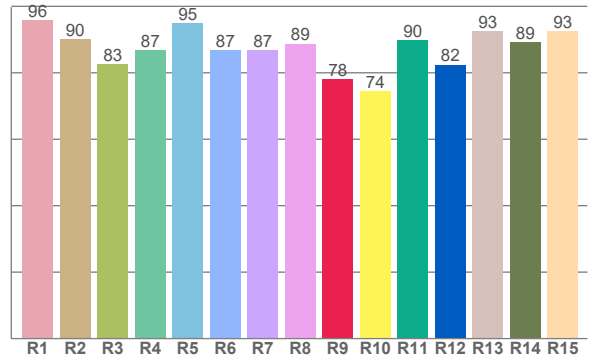
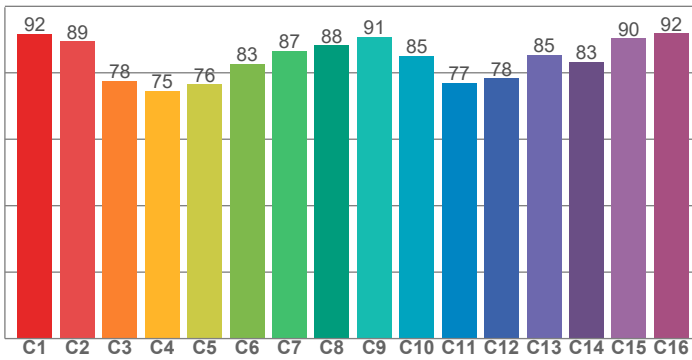
Spectra





TM30: 83,8

CRI: 89,1 (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
95,7	90,1	82,5	86,8	94,9	86,8	86,8	88,7	78,0	74,4	89,8	82,4	92,6	89,1	92,5

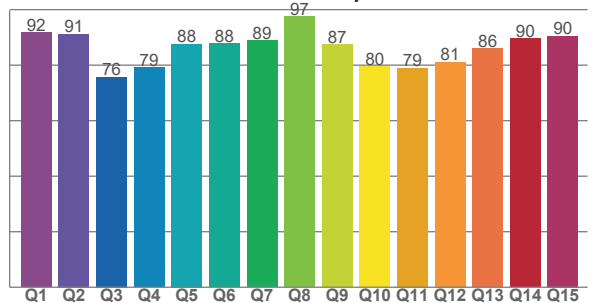
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,7	89,5	77,6	74,6	76,5	82,7	86,6	88,2	90,8	85,1	77,0	78,3	85,4	83,2	90,3	91,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,7	91,3	75,7	79,2	87,6	87,8	88,9	97,4	87,4	79,5	79,0	81,2	85,9	89,6	90,4

CQS: 85,0



COLOR PARAMETERS

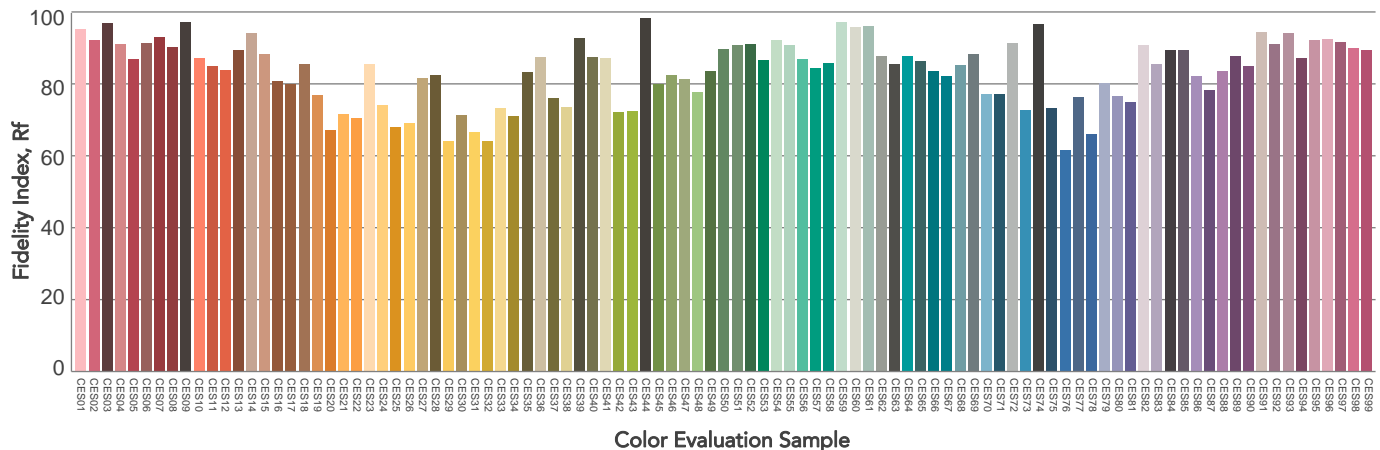
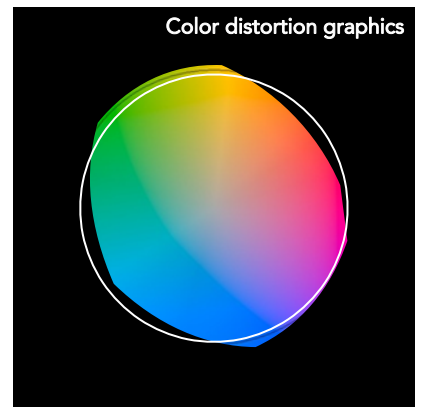
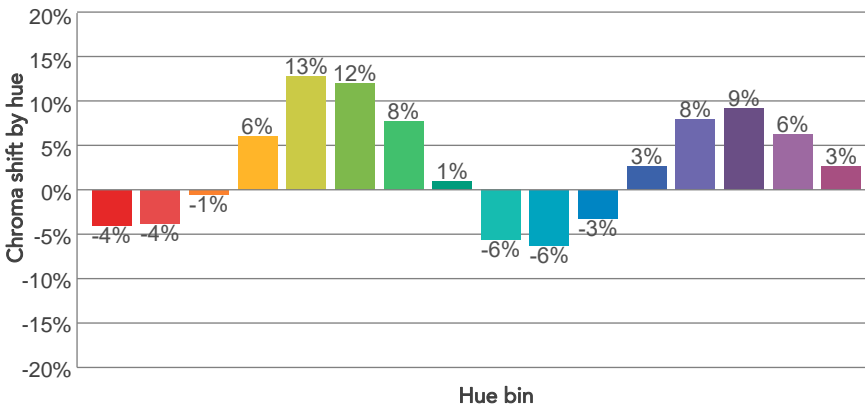
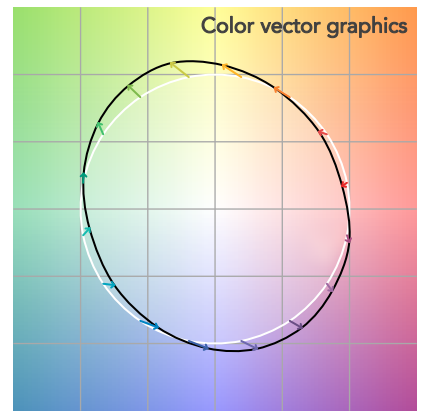
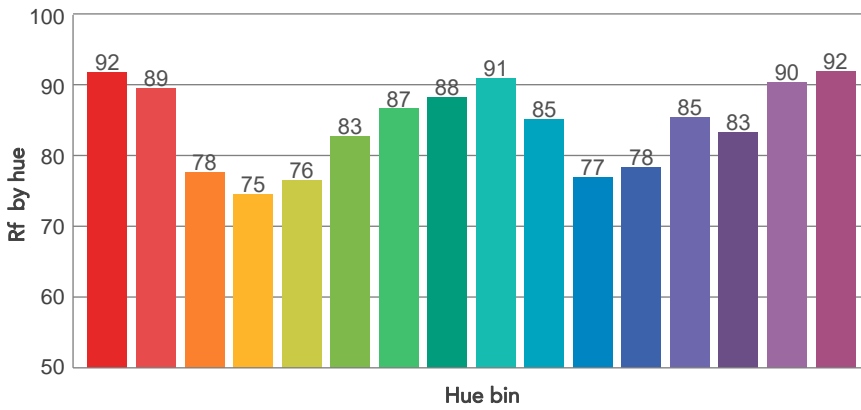
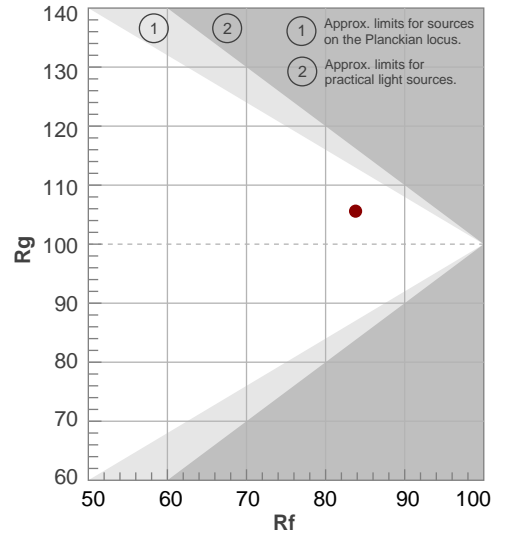
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5441 K	89,1	78,0	83,8	105,6	85,0	82	0,334	0,324	-0,0127

# TM30 DETAILS

**Rf 83,8**  
Fidelity index Rf

**Rg 105,6**  
Gammut index

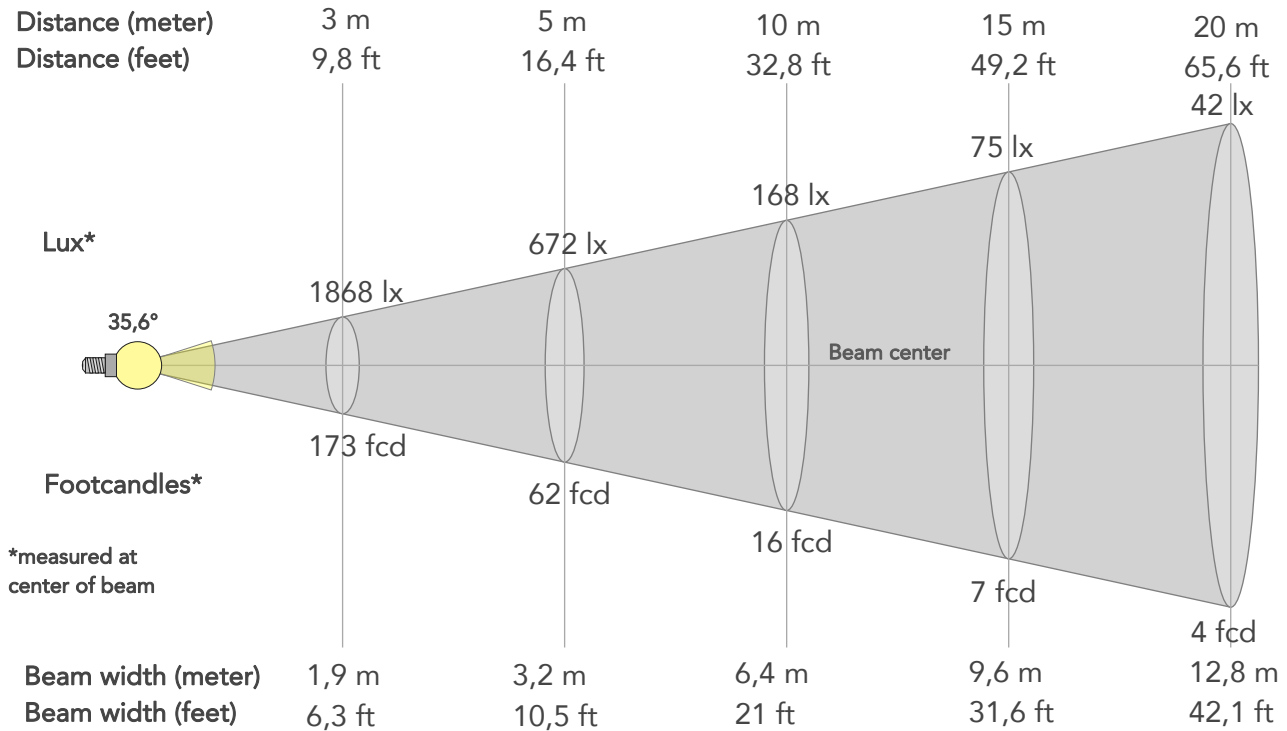
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	89	-4%	5%
3	78	-1%	13%
4	75	6%	15%
5	76	13%	11%
6	83	12%	3%
7	87	8%	-5%
8	88	1%	-7%
9	91	-6%	-4%
10	85	-6%	5%
11	77	-3%	13%
12	78	3%	15%
13	85	8%	10%
14	83	9%	5%
15	90	6%	-2%
16	92	3%	-5%



# BEAM DETAILS



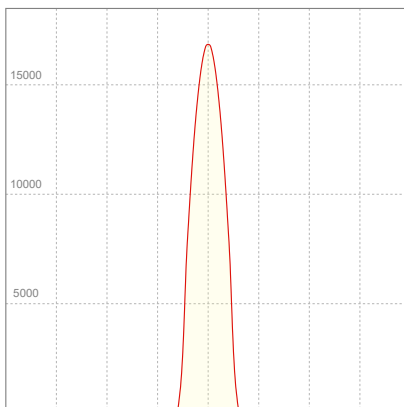
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35,6°	47,8°	52,8°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	16808lx	4202lx	1868lx	1050lx	672lx	299lx	168lx	75lx	42lx	27lx	19lx	11lx	7lx
Footcand.	1561fcd	390fcd	173fcd	98fcd	62fcd	28fcd	16fcd	7fcd	4fcd	2fcd	2fcd	1fcd	1fcd
Beam wid.	0,6m	1,3m	1,9m	2,6m	3,2m	4,8m	6,4m	9,6m	12,8m	16m	19,2m	25,7m	32,1m
Beam wid.	2,1ft	4,2ft	6,3ft	8,4ft	10,5ft	15,8ft	21ft	31,6ft	42,1ft	52,6ft	63,1ft	84,2ft	105,2ft

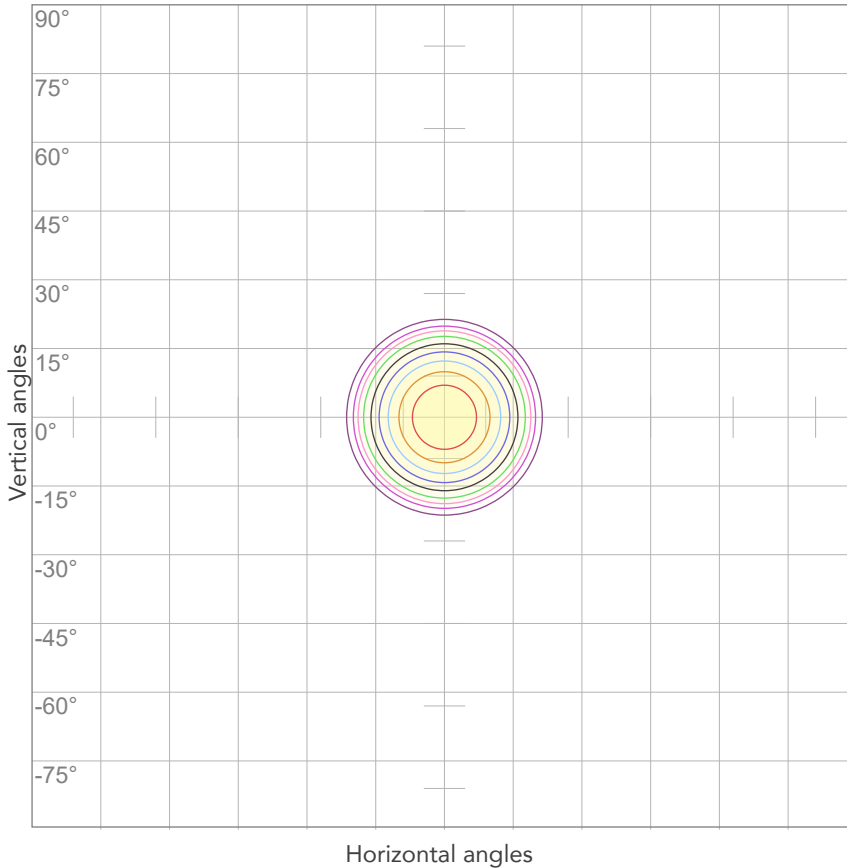
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
226V	2,04A	450,3W	11lm/W

## ISO CANDELA DIAGRAM



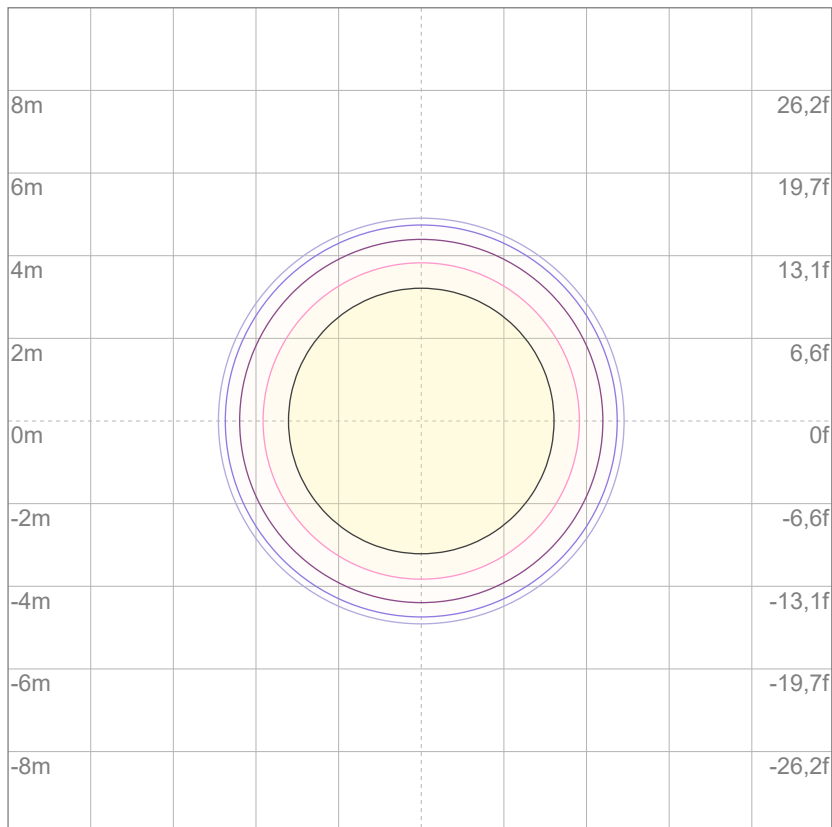
10%	1681 cd
20%	3362 cd
30%	5042 cd
40%	6723 cd
50%	8404 cd
60%	10085 cd
70%	11765 cd
80%	13446 cd

Conditions:

Number of c-planes: 2

Candela at center: 16808 cd

## ISO LUX DIAGRAM



3%	5,04 lx
5%	8,40 lx
10%	16,8 lx
30%	50,4 lx
50%	84,0 lx

Conditions:

Number of c-planes: 2

Lux at center: 168 lx

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

Mounting height: 10 meters (33 feet)



Total lumen output:

4714 lm

Peak candela output:

149820 cd

Light quality:

CRI: 89,1

Color temperature:

5443 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Med Zoom

Target:

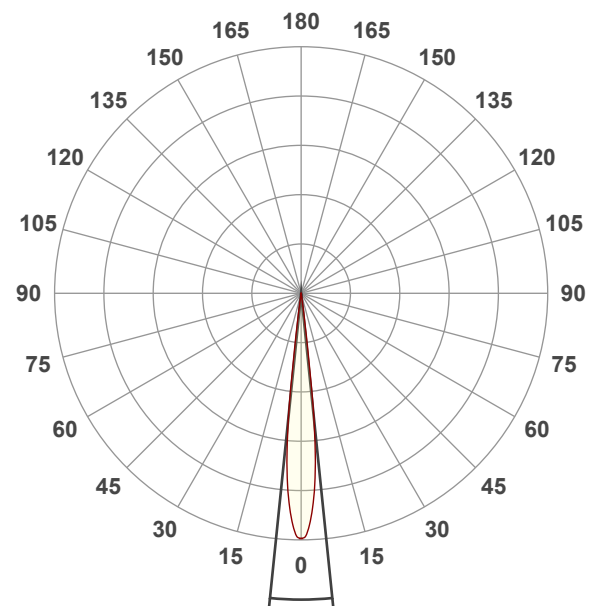
HIGH CRI

Operator:

Salvatore Giglio

Date and time:

26/05/2023 15:22:39

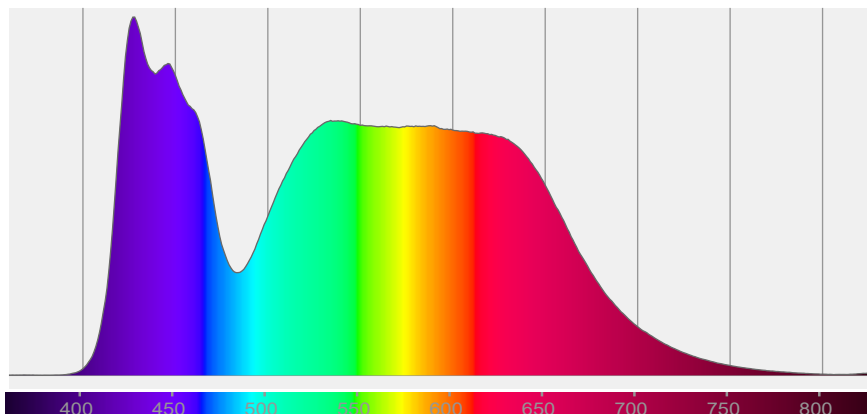


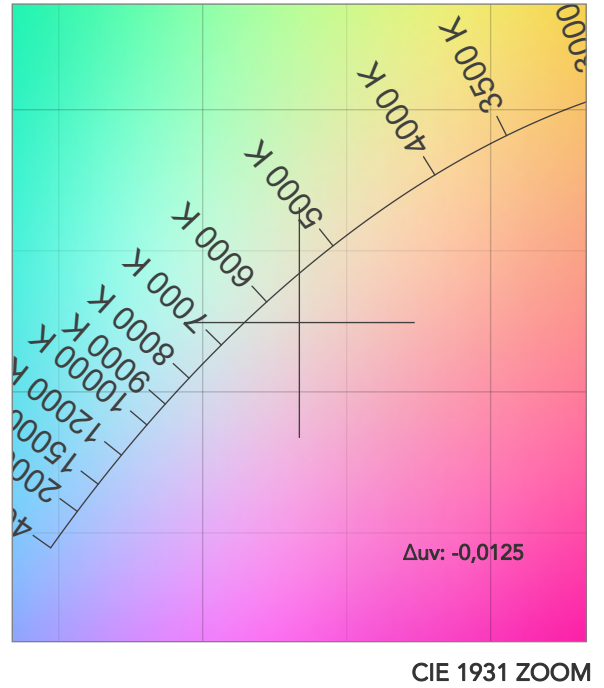
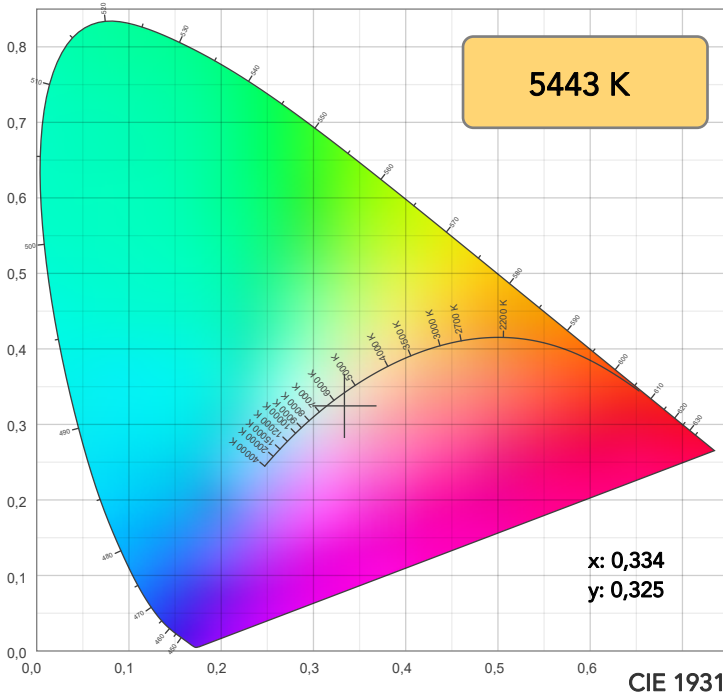
Beam angle 50%: 11,7°

Field angle 10%: 15,1°

Cut off angle 2.5%: 16,1°

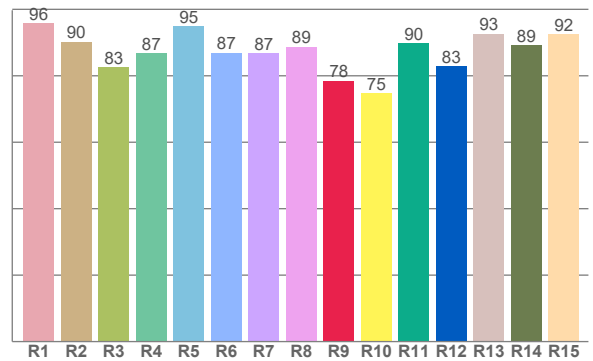
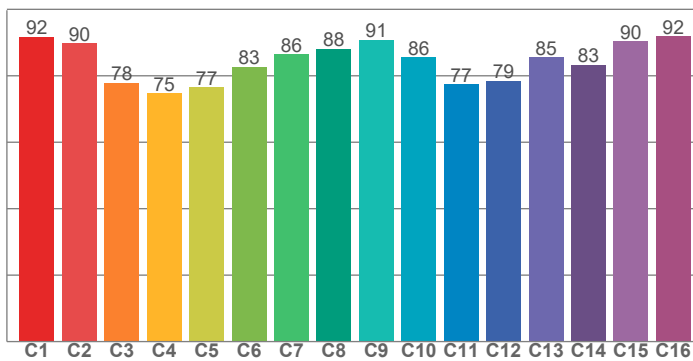
Spectra





TM30: 83,9

CRI: 89,1 (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
95,8	90,2	82,7	86,7	95,0	87,0	86,8	88,8	78,5	74,6	89,8	82,8	92,7	89,2	92,5

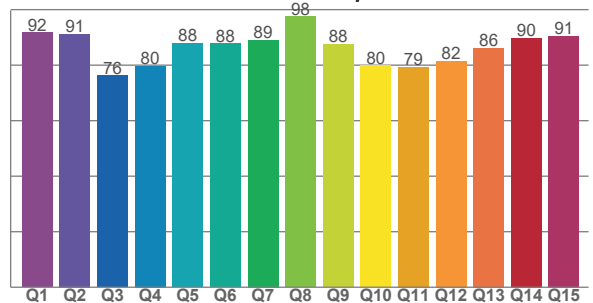
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,8	89,7	77,8	74,7	76,5	82,7	86,5	88,1	90,9	85,6	77,4	78,5	85,5	83,3	90,4	91,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91,7	91,3	76,2	79,7	87,9	87,8	89,1	97,5	87,5	79,8	79,3	81,5	86,2	89,8	90,5

CQS: 85,3



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5443 K	89,1	78,5	83,9	105,6	85,3	83	0,334	0,325	-0,0125

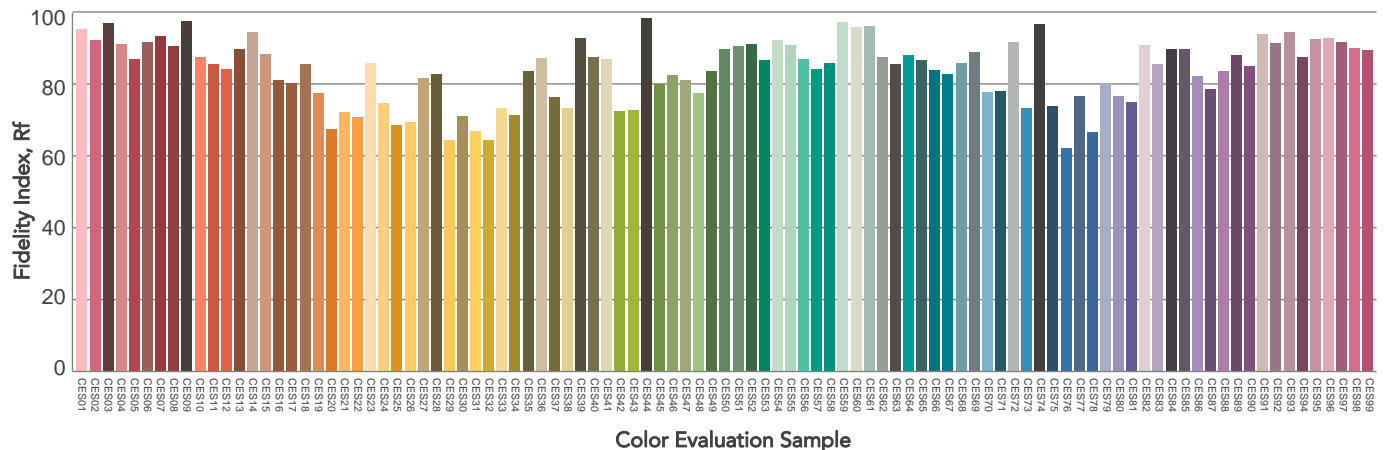
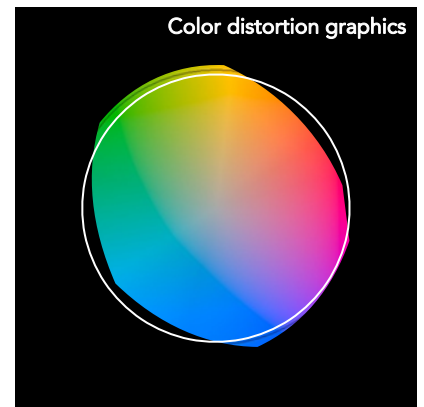
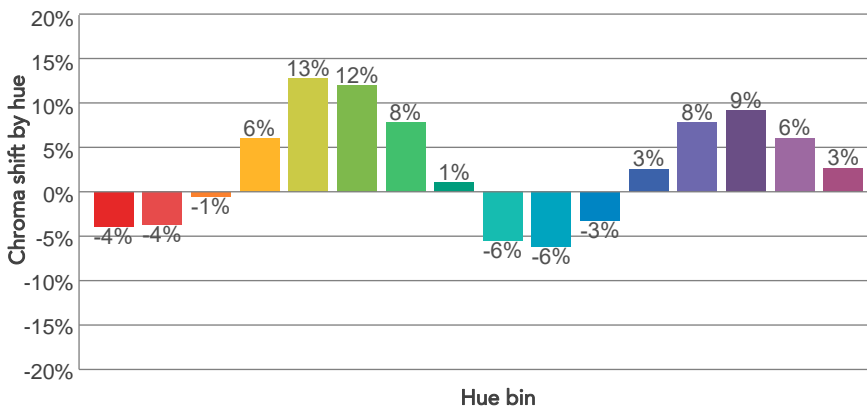
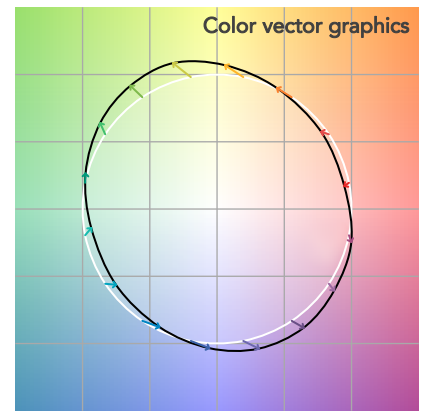
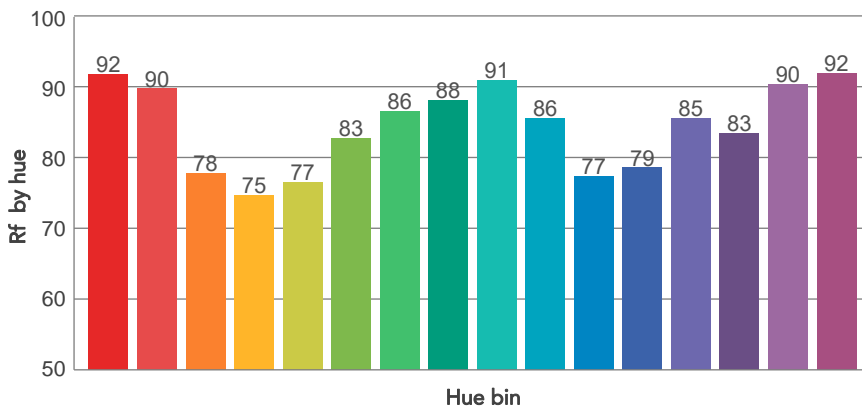
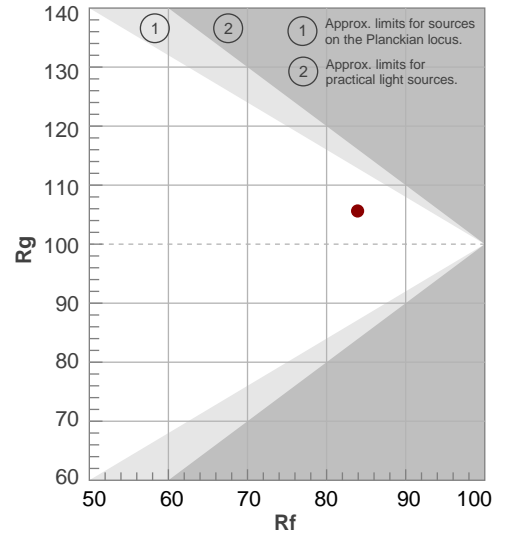


# TM30 DETAILS

**Rf 83,9**  
Fidelity index Rf

**Rg 105,6**  
Gammut index

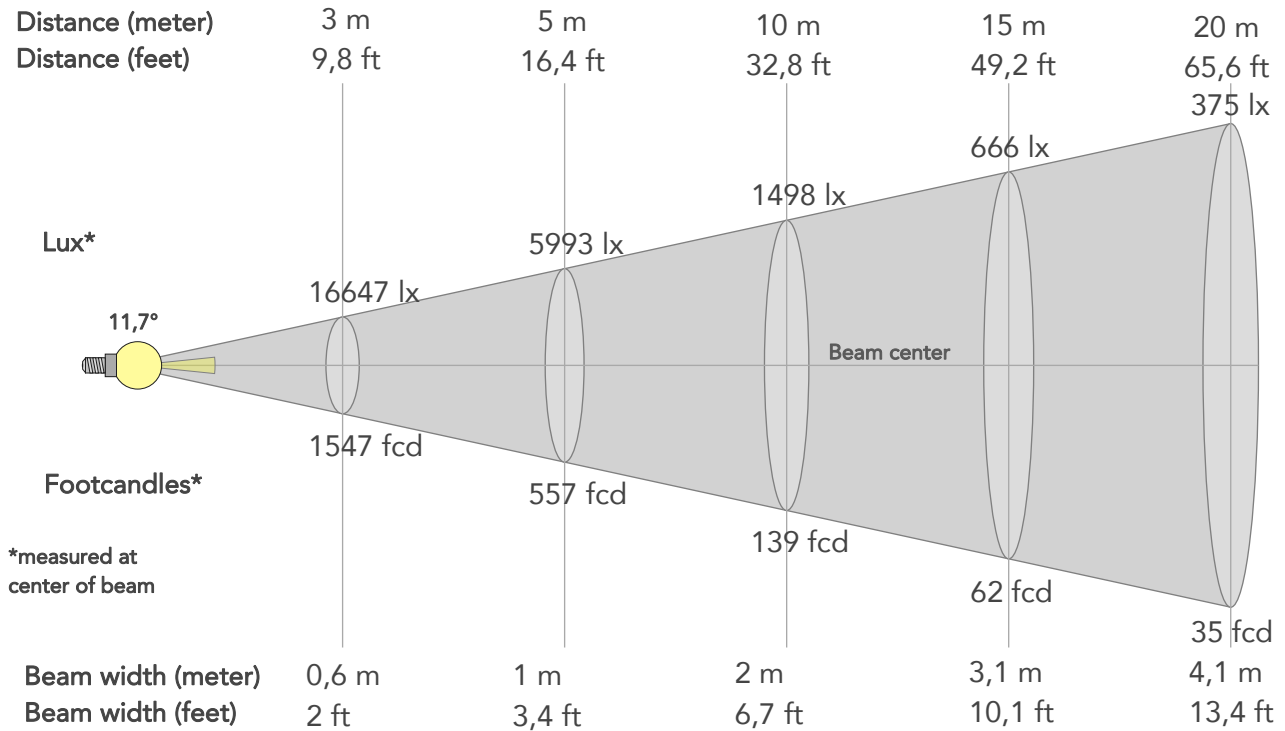
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	90	-4%	5%
3	78	-1%	13%
4	75	6%	15%
5	77	13%	11%
6	83	12%	3%
7	86	8%	-5%
8	88	1%	-7%
9	91	-6%	-4%
10	86	-6%	5%
11	77	-3%	13%
12	79	3%	14%
13	85	8%	10%
14	83	9%	5%
15	90	6%	-2%
16	92	3%	-4%



# BEAM DETAILS



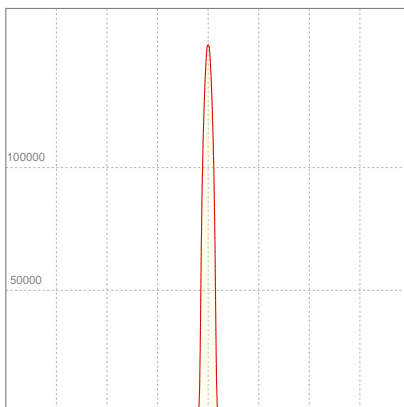
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
11,7°	15,1°	16,1°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	149820lx	37455lx	16647lx	9364lx	5993lx	2663lx	1498lx	666lx	375lx	240lx	166lx	94lx	60lx
Footcand.	13919fcd	3480fcd	1547fcd	870fcd	557fcd	247fcd	139fcd	62fcd	35fcd	22fcd	15fcd	9fcd	6fcd
Beam wid.	0,2m	0,4m	0,6m	0,8m	1m	1,5m	2m	3,1m	4,1m	5,1m	6,1m	8,2m	10,2m
Beam wid.	0,7ft	1,4ft	2ft	2,7ft	3,4ft	5ft	6,7ft	10,1ft	13,4ft	16,8ft	20,1ft	26,8ft	33,6ft

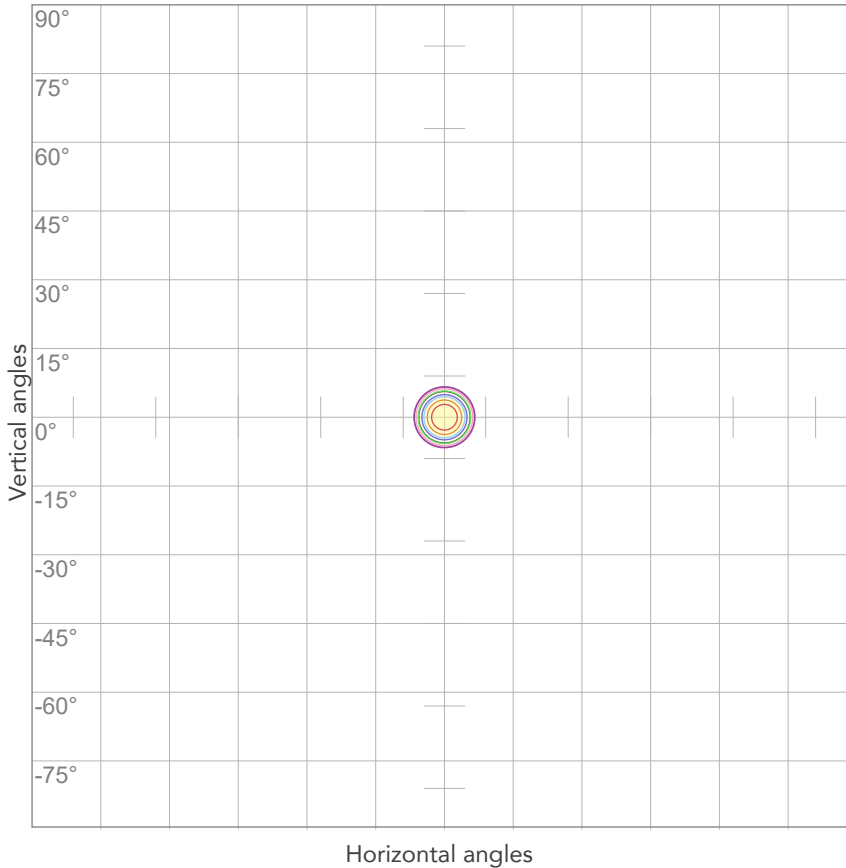
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
224V	2,06A	450,6W	10lm/W

## ISO CANDELA DIAGRAM



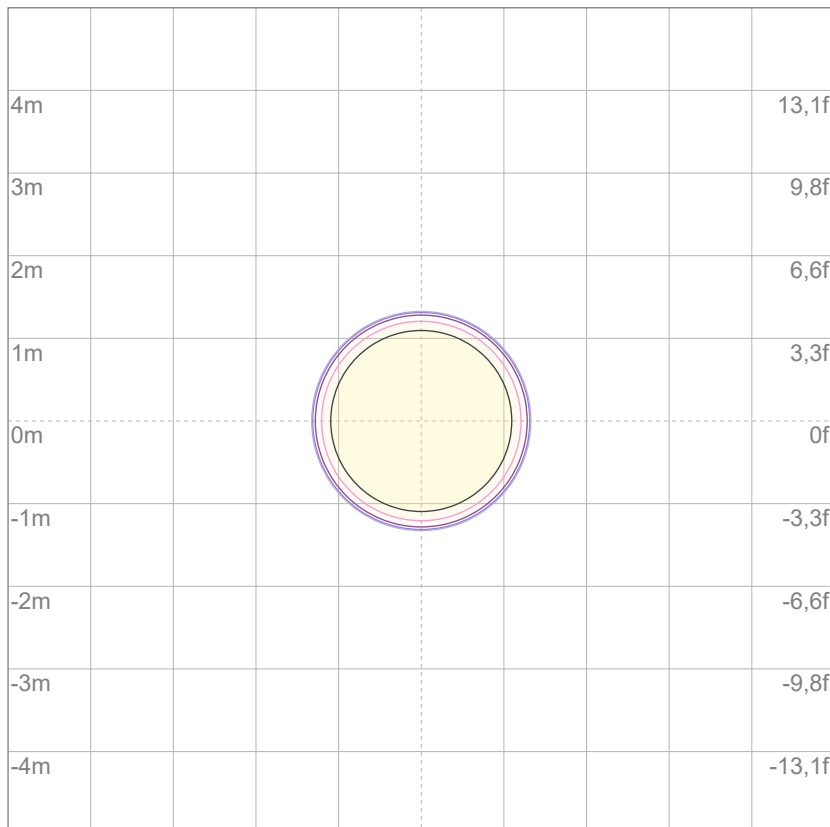
10%	14982 cd
20%	29964 cd
30%	44946 cd
40%	59928 cd
50%	74910 cd
60%	89892 cd
70%	104874 cd
80%	119856 cd

Conditions:

Number of c-planes: 2

Candela at center: 149820 cd

## ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	44,9 lx
5%	74,9 lx
10%	150 lx
30%	449 lx
50%	749 lx

Conditions:

Number of c-planes: 2

Lux at center: 1498 lx

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



Total lumen output:

3453 lm

Peak candela output:

1114590 cd

Light quality:

CRI: 86,7

Color temperature:

5330 K

**PRODUCT NAME:**

ASTRAHYBRID330

**MEASUREMENT CONDITIONS:**

Beam angle:

Min Zoom

Target:

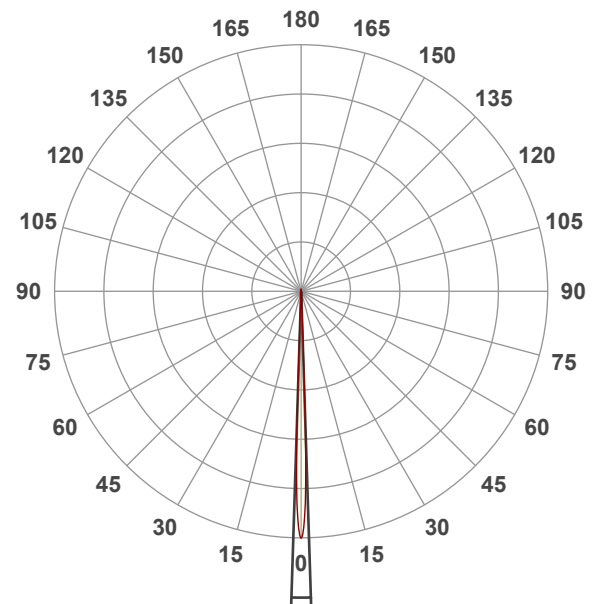
HIGH CRI

Operator:

Salvatore Giglio

Date and time:

26/05/2023 14:57:54

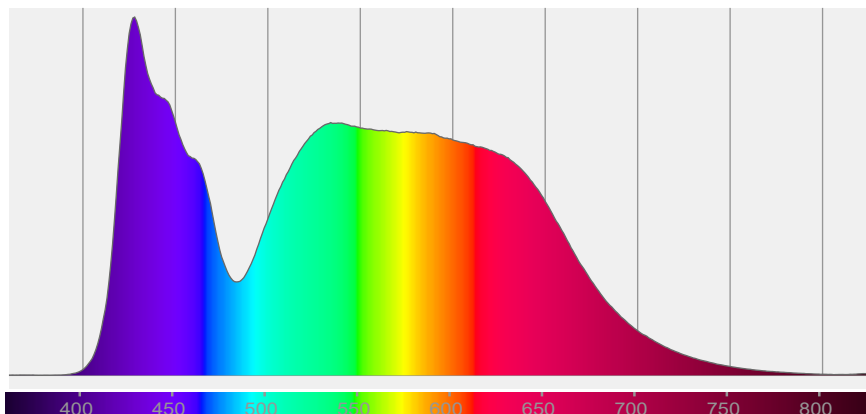


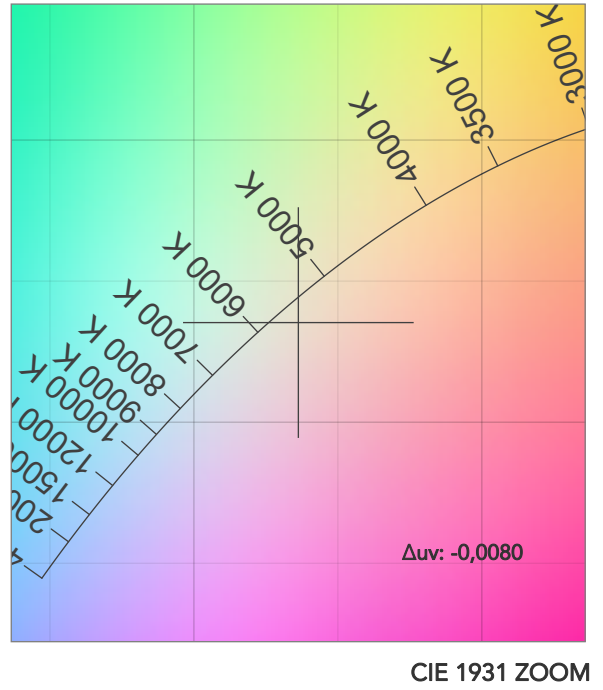
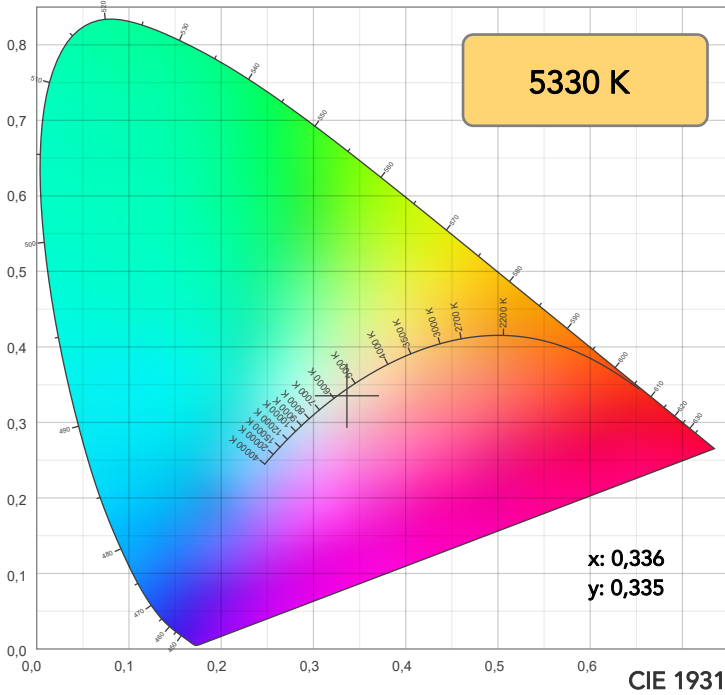
Beam angle 50%: 3,6°

Field angle 10%: 4,7°

Cut off angle 2.5%: 5,3°

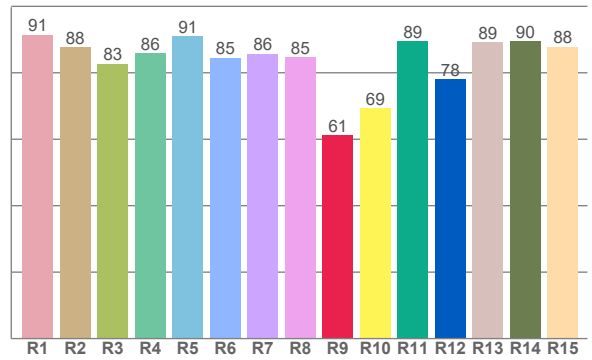
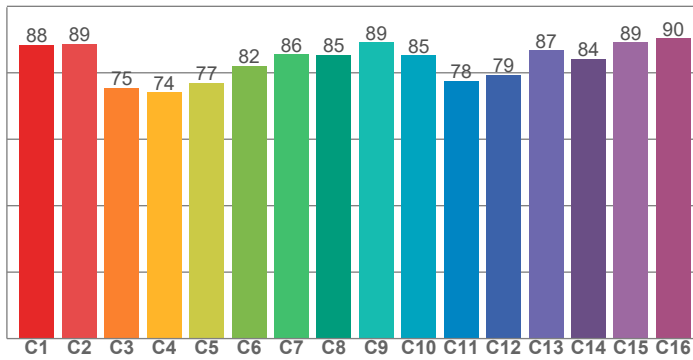
Spectra





TM30: 83,1

CRI: 86,7 (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
91,4	87,7	82,7	86,0	90,9	84,5	85,7	84,7	61,1	69,4	89,5	78,1	89,2	89,5	87,8

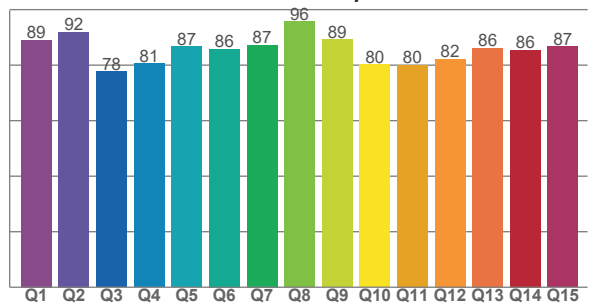
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,4	88,7	75,4	74,1	76,9	82,1	85,6	85,5	89,2	85,2	77,6	79,5	86,7	84,1	89,2	90,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,0	92,0	77,6	80,6	86,6	85,8	87,2	95,8	89,1	80,2	80,0	82,3	86,2	85,5	86,7

CQS: 84,9



COLOR PARAMETERS

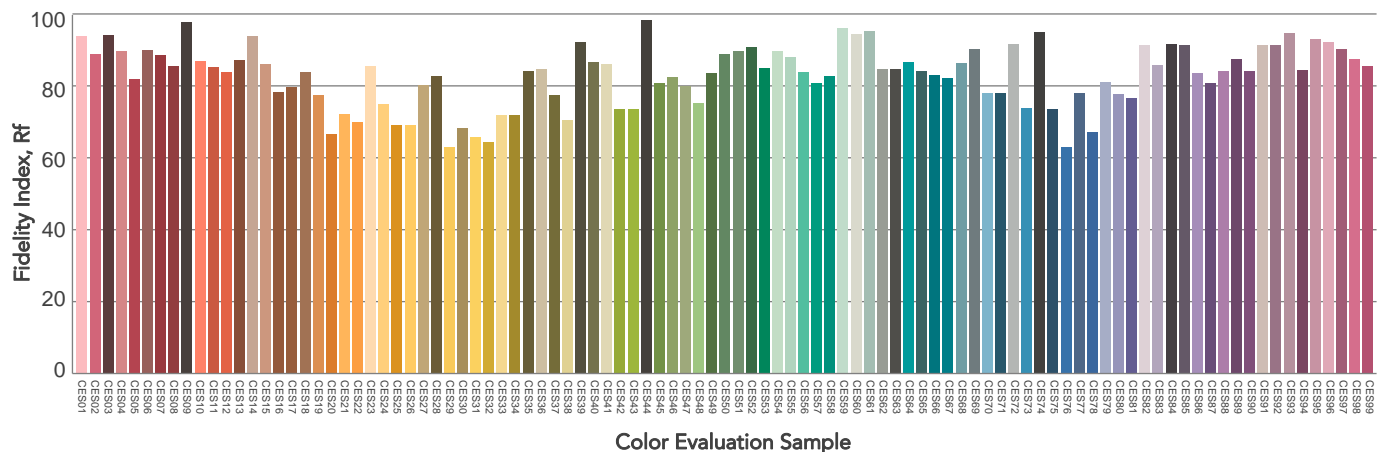
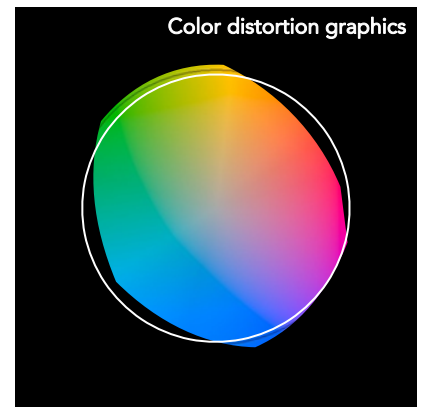
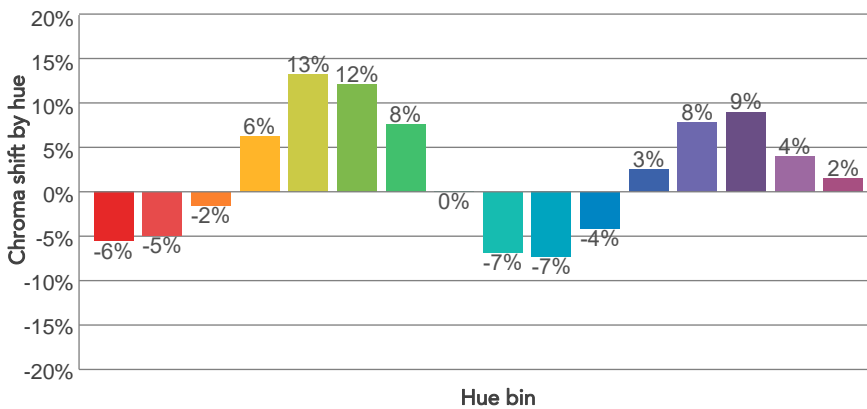
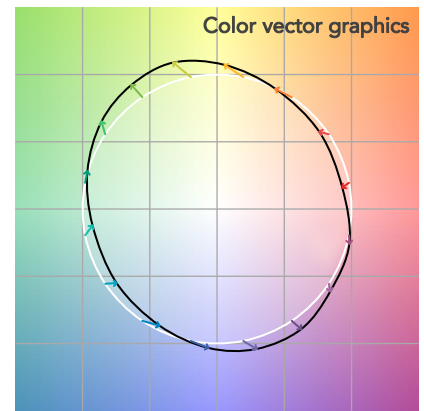
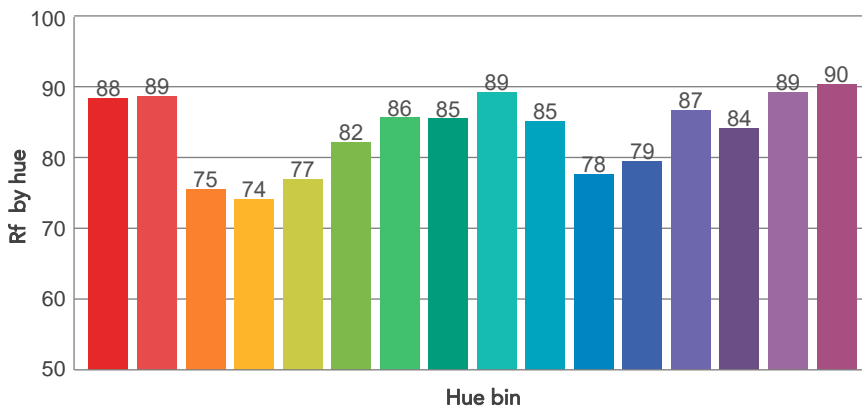
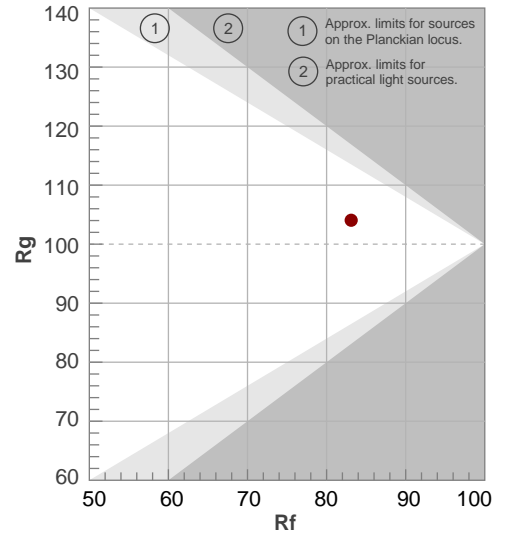
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Television lighting index	Color coordinate cie 1931	Color coordinate cie 1931	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	TLCI	x	y	Δuv
5330 K	86,7	61,1	83,1	104,1	84,9	80	0,336	0,335	-0,0080

# TM30 DETAILS

**Rf 83,1**  
Fidelity index Rf

**Rg 104,1**  
Gammut index

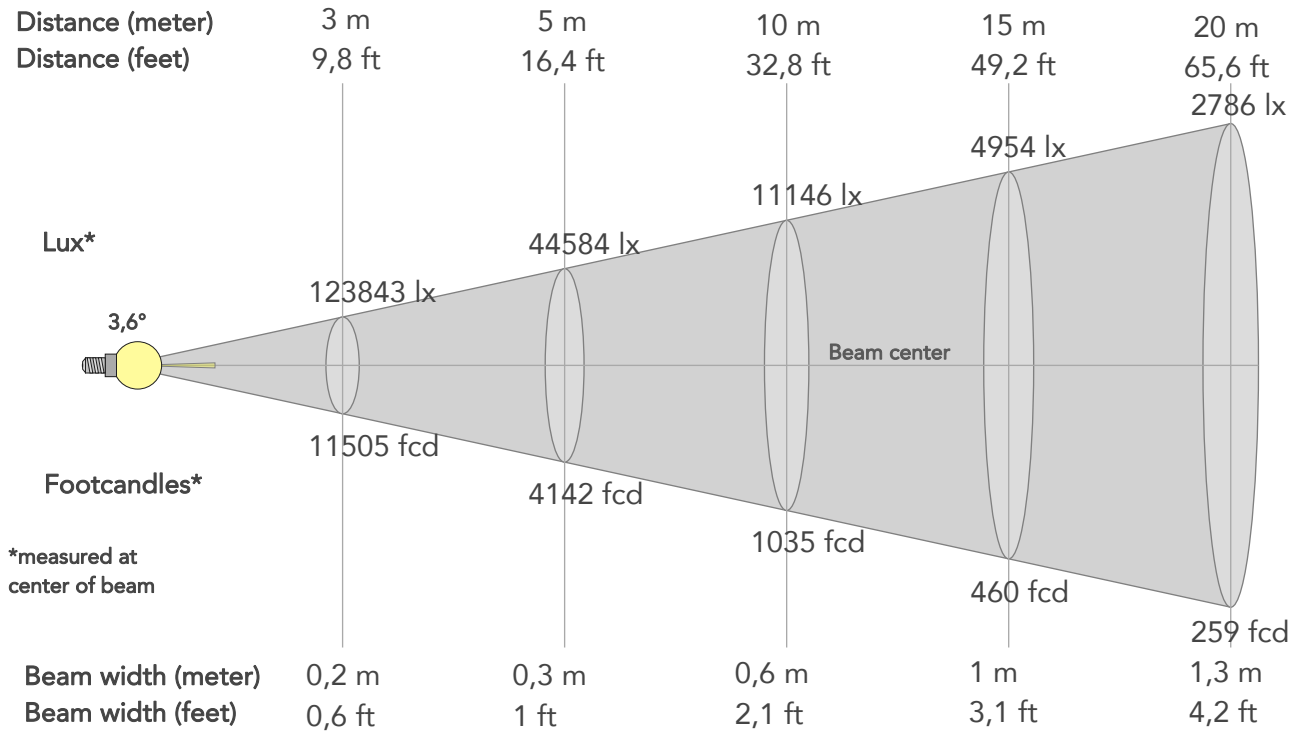
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	-6%	-3%
2	89	-5%	5%
3	75	-2%	13%
4	74	6%	15%
5	77	13%	11%
6	82	12%	2%
7	86	8%	-6%
8	85	0%	-9%
9	89	-7%	-6%
10	85	-7%	4%
11	78	-4%	12%
12	79	3%	14%
13	87	8%	9%
14	84	9%	2%
15	89	4%	-4%
16	90	2%	-6%



# BEAM DETAILS



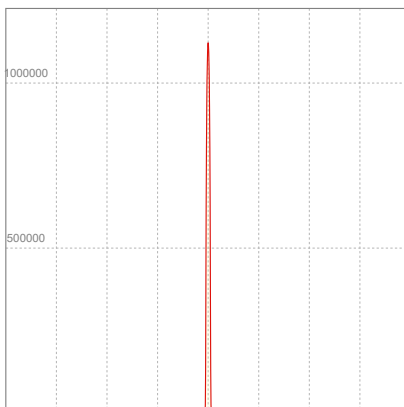
Beam angle 50%	Field angle 10%	Cut off angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
3,6°	4,7°	5,3°	100,0%	100,0%



## BEAM INTENSITIES AND WIDTHS

Distance	1m	2m	3m	4m	5m	7,5m	10m	15m	20m	25m	30m	40m	50m
Distance	3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	24,6ft	32,8ft	49,2ft	65,6ft	82ft	98,4ft	131,2ft	164ft
Lux	1114590lx	278647lx	123843lx	69662lx	44584lx	19815lx	11146lx	4954lx	2786lx	1783lx	1238lx	697lx	446lx
Footcand.	103549fcd	25887fcd	11505fcd	6472fcd	4142fcd	1841fcd	1035fcd	460fcd	259fcd	166fcd	115fcd	65fcd	41fcd
Beam wid.	0,1m	0,1m	0,2m	0,3m	0,3m	0,5m	0,6m	1m	1,3m	1,6m	1,9m	2,5m	3,2m
Beam wid.	0,2ft	0,4ft	0,6ft	0,8ft	1ft	1,6ft	2,1ft	3,1ft	4,2ft	5,2ft	6,3ft	8,3ft	10,4ft

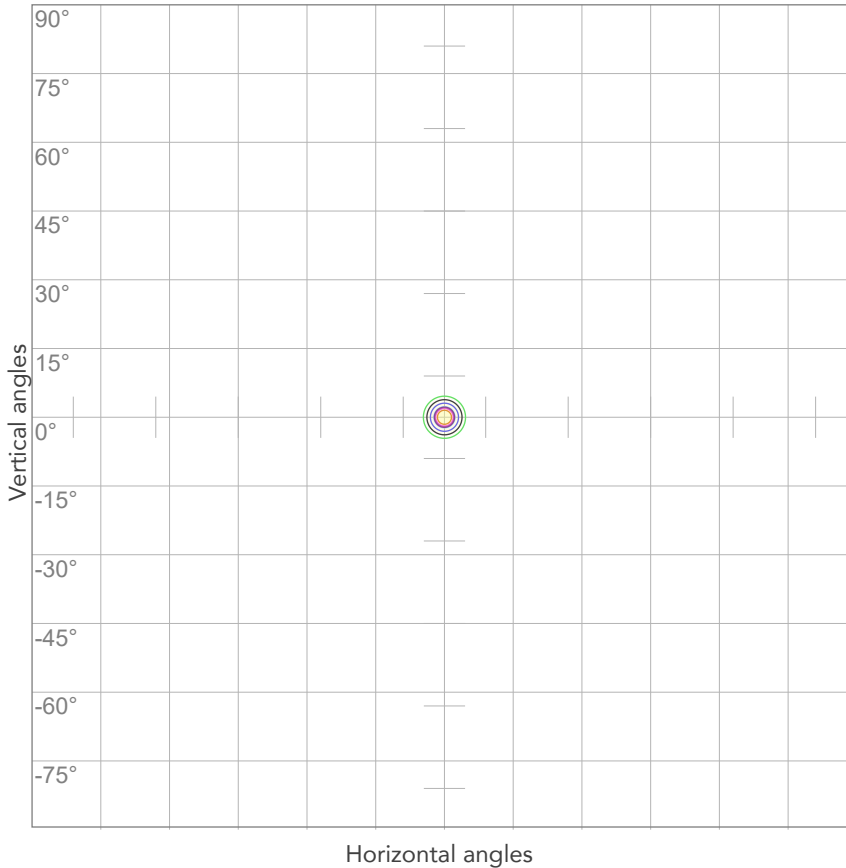
## LINEAR DISTRIBUTION DIAGRAM



## ELECTRICAL SPECIFICATIONS

Input voltage	Input current	Input power	Effeciency
223V	2,06A	450,2W	8lm/W

## ISO CANDELA DIAGRAM



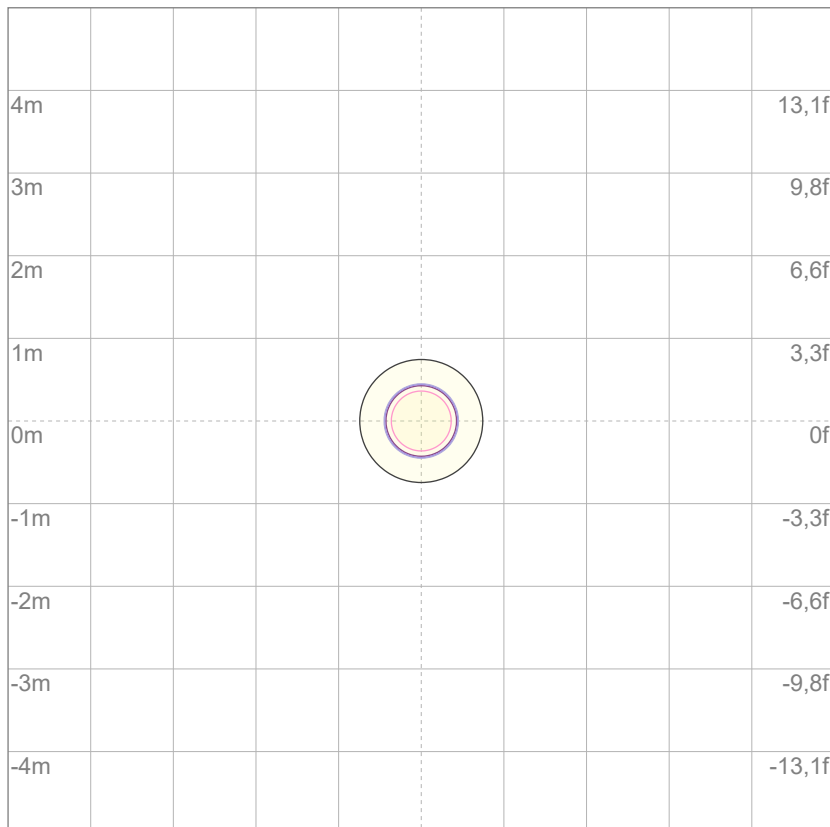
10%	111459 cd
20%	222918 cd
30%	334377 cd
40%	445836 cd
50%	557295 cd
60%	668754 cd
70%	780213 cd
80%	891672 cd

Conditions:

Number of c-planes: 2

Candela at center: 1114590 cd

## ISO LUX DIAGRAM



3%	334 lx
5%	557 lx
10%	1115 lx
30%	3344 lx
50%	5573 lx

Conditions:

Number of c-planes: 2

Lux at center: 11,1K lx

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

Mounting height: 10 meters (33 feet)