

Light efficiency:



Output: 1001 lm

Light quality:

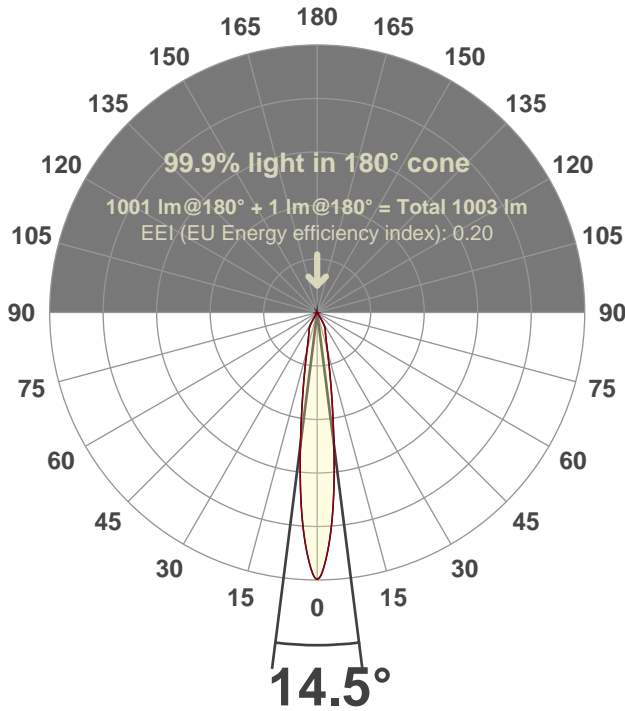


Peak: 7273 cd

Power: 15.0 W



Beam angle



Test number:

CR4D-R-OR-A14-30k-15 (GRO-AD-SP-RD)

Luminaire Model:

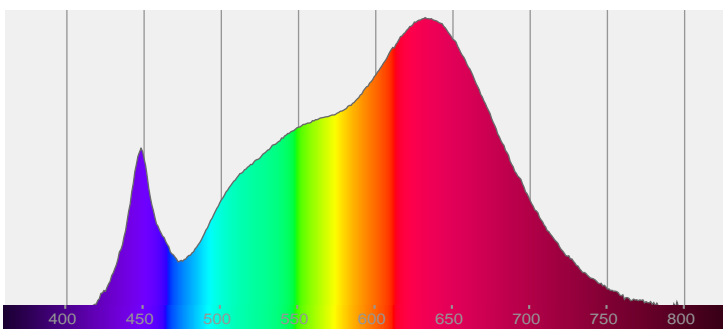
Core 4" Round Open Regress A14 30K 15°

Date and time:

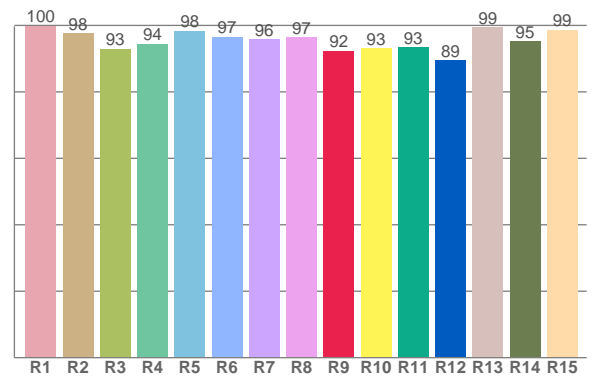
8/10/2017 1:37:25 PM

LUM: 1001

Spectra



CRI: 96.5 (R1-R8)

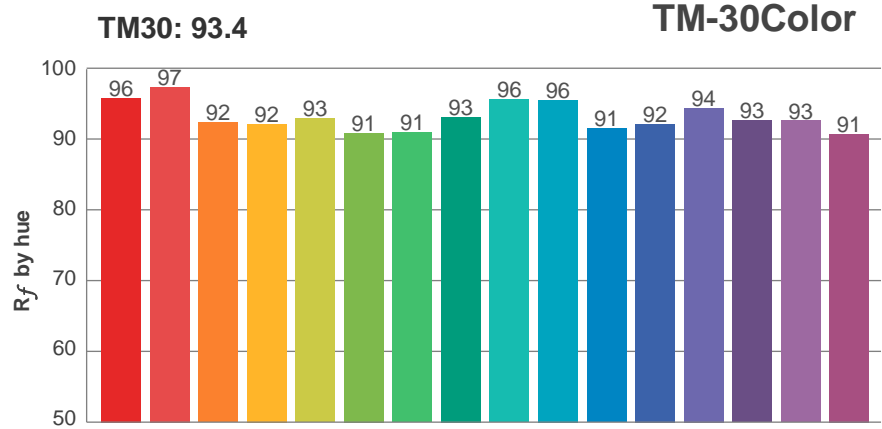


Color parameters

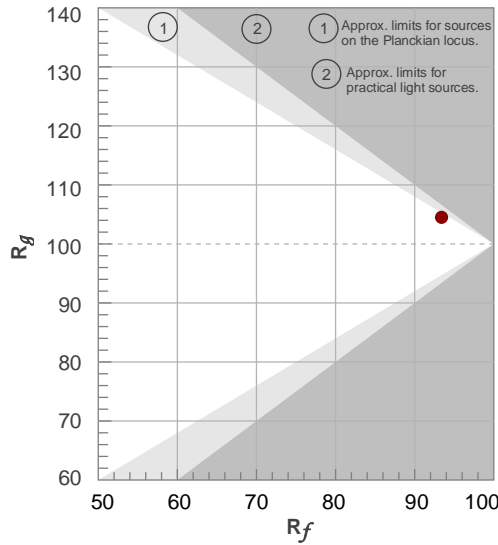
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
96.5	92.4	93.4	104.5	93.2	0.430	0.396	0.249	0.345	-0.0020

R_f 93.4
Fidelity index R_f

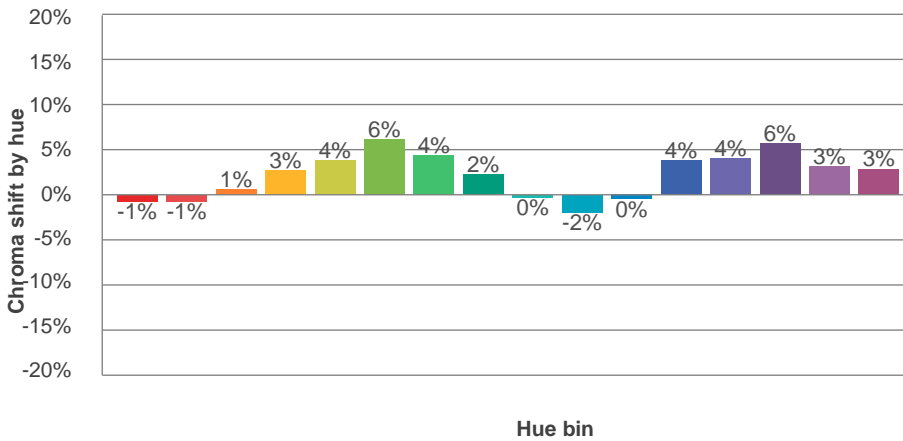
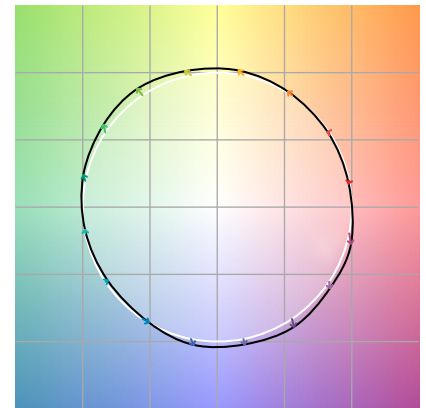
R_g 104.5
Gammut index R_g



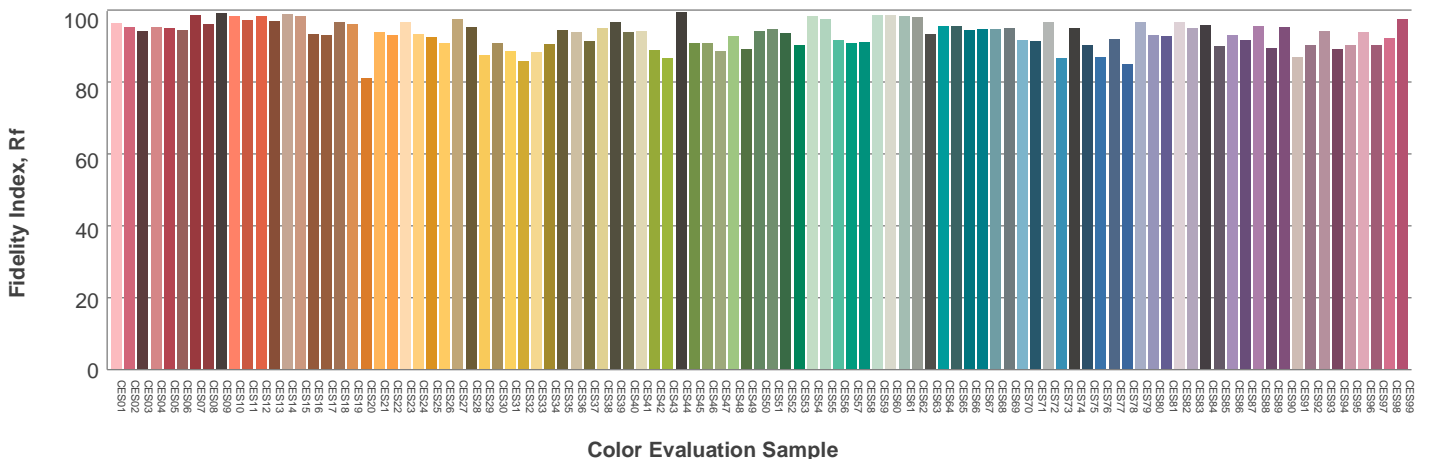
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	-2%
2	97	-1%	1%
3	92	1%	4%
4	92	3%	4%
5	93	4%	4%
6	91	6%	1%
7	91	4%	-4%
8	93	2%	-4%
9	96	0%	-3%
10	96	-2%	0%
11	91	0%	5%
12	92	4%	3%
13	94	4%	0%
14	93	6%	-2%
15	93	3%	-4%
16	91	3%	-7%



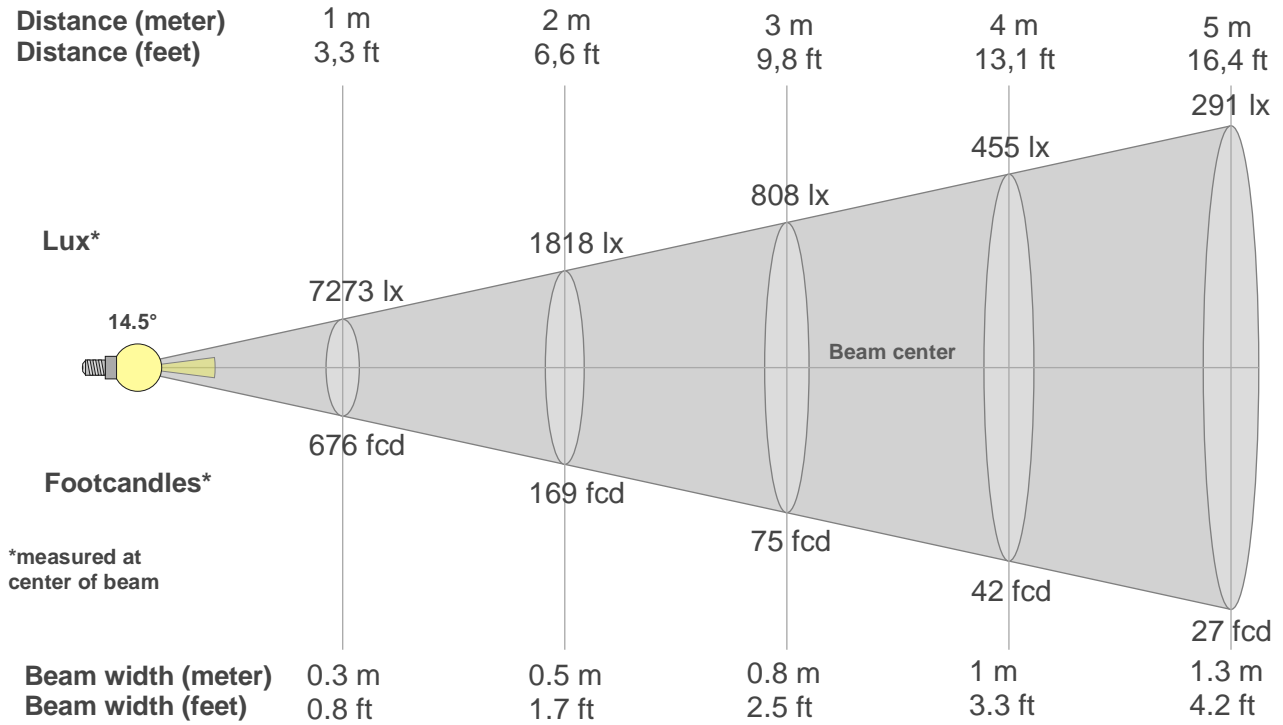
Color vector graphics



Color distortion



Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
7273lx	1818lx	808lx	455lx	291lx	202lx	148lx	114lx	90lx	73lx	60lx	51lx	43lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx
675.7fc	168.9fc	75.1fcd	42.2fcd	27fcd	18.8fcd	13.8fcd	10.6fcd	8.3fcd	6.8fcd	5.6fcd	4.7fcd	4fcd	3.4fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7273	7118	6746	6282	5731	5106	4438	3779	3192	2691	2274	1932	1653	1424	1239	1091	973	879	802	739
100%	98%	93%	86%	79%	70%	61%	52%	44%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7273	7118	6746	6282	5731	5106	4438	3779	3192	2691	2274	1932	1653	1424	1239	1091	973	879	802	739
100%	98%	93%	86%	79%	70%	61%	52%	44%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7273	7118	6746	6282	5731	5106	4438	3779	3192	2691	2274	1932	1653	1424	1239	1091	973	879	802	739
100%	98%	93%	86%	79%	70%	61%	52%	44%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%

Intensities in 270° c-plane

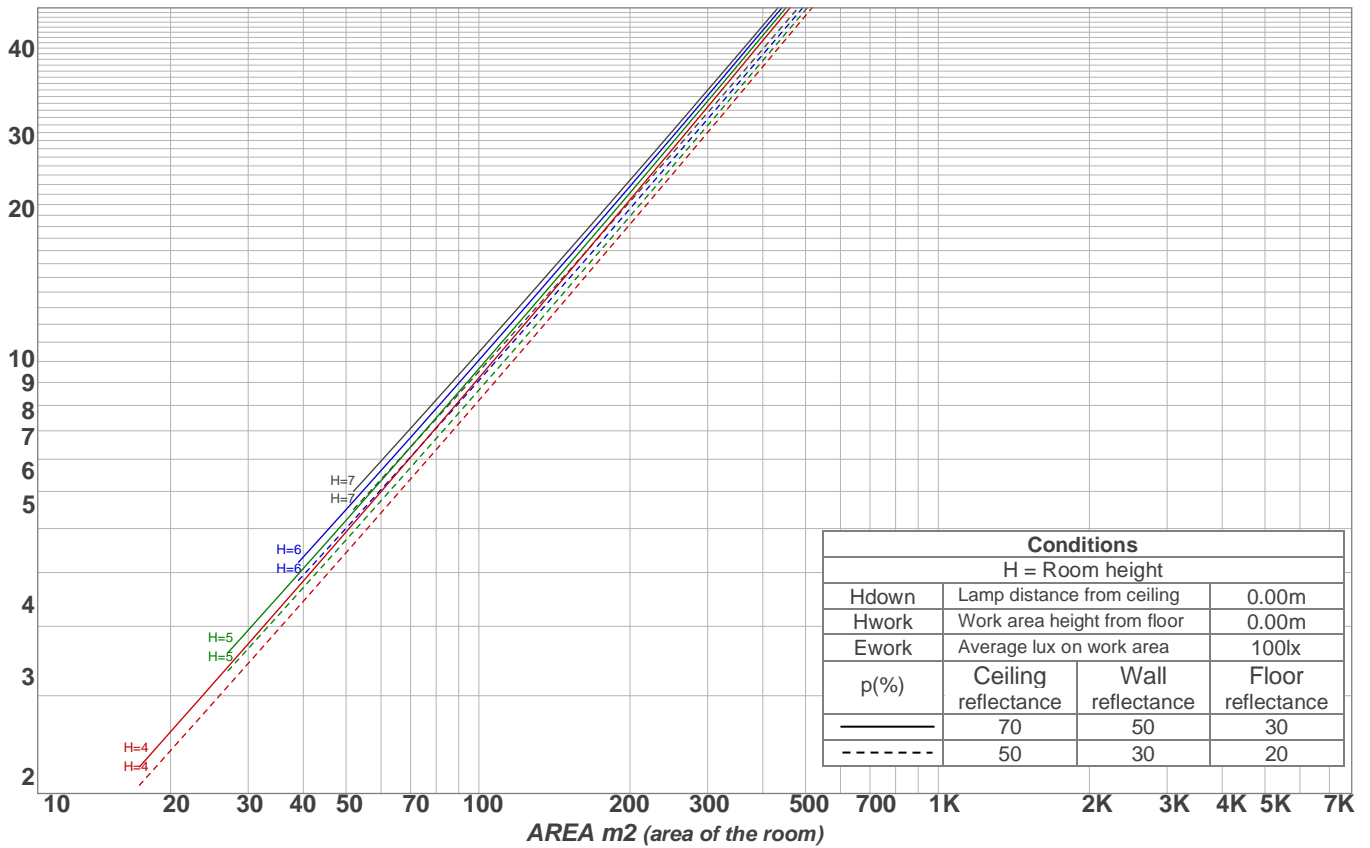
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7273	7118	6746	6282	5731	5106	4438	3779	3192	2691	2274	1932	1653	1424	1239	1091	973	879	802	739
100%	98%	93%	86%	79%	70%	61%	52%	44%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14.5°	38.4°	63.9°	99.5%	99.4%

Light planning

Luminaire budgetary diagram

LAMPS (number of lamps)
50



Luminaire budgetary diagram
AREA m2 (area of the room)
Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)																	
	Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	82	81
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79
8	92	86	82	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	81	78	76	75
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	79	76	73	73

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
387 lm	323 lm	237 lm	48.0 lm	1.59 lm	1.33 lm	1.48 lm	1.08 lm	0.799 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	21.2	21.6	21.2	21.8	22.0	21.2	21.6	21.2	21.8	22.0
	3H	20.9	21.5	21.3	21.7	21.8	20.9	21.5	21.3	21.7	21.8
	4H	20.9	21.4	21.3	21.7	21.9	20.9	21.4	21.3	21.7	21.9
	6H	21.0	21.5	21.3	21.8	22.1	21.0	21.5	21.3	21.8	22.1
	8H	21.0	21.5	21.3	21.8	22.2	21.0	21.5	21.3	21.8	22.2
	12H	21.1	21.5	21.4	21.8	22.3	21.1	21.5	21.4	21.8	22.3
4H	2H	20.8	21.4	21.2	21.6	21.8	20.8	21.4	21.2	21.6	21.8
	3H	20.8	21.2	21.1	21.6	22.0	20.8	21.2	21.1	21.6	22.0
	4H	20.7	21.1	21.1	21.6	22.1	20.7	21.1	21.1	21.6	22.1
	6H	20.9	21.3	21.3	21.6	22.0	20.9	21.3	21.3	21.6	22.0
	8H	20.9	21.4	21.4	21.7	22.1	20.9	21.4	21.4	21.7	22.1
	12H	21.0	21.3	21.5	21.7	22.2	21.0	21.3	21.5	21.7	22.2
8H	4H	20.7	21.1	21.2	21.4	21.8	20.7	21.1	21.2	21.4	21.8
	6H	20.9	21.2	21.4	21.6	22.1	20.9	21.2	21.4	21.6	22.1
	8H	21.1	21.3	21.6	21.8	22.4	21.1	21.3	21.6	21.8	22.4
	12H	21.3	21.4	21.9	21.9	22.5	21.3	21.4	21.9	21.9	22.5
12H	4H	20.6	20.9	21.1	21.3	21.8	20.6	20.9	21.1	21.3	21.8
	6H	20.9	21.1	21.5	21.7	22.3	20.9	21.1	21.5	21.7	22.3
	8H	21.1	21.3	21.7	21.8	22.4	21.1	21.3	21.7	21.8	22.4
Corrected glare indices referring to 1001 lm total luminous flux											