specialty lighting industries

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 97.5

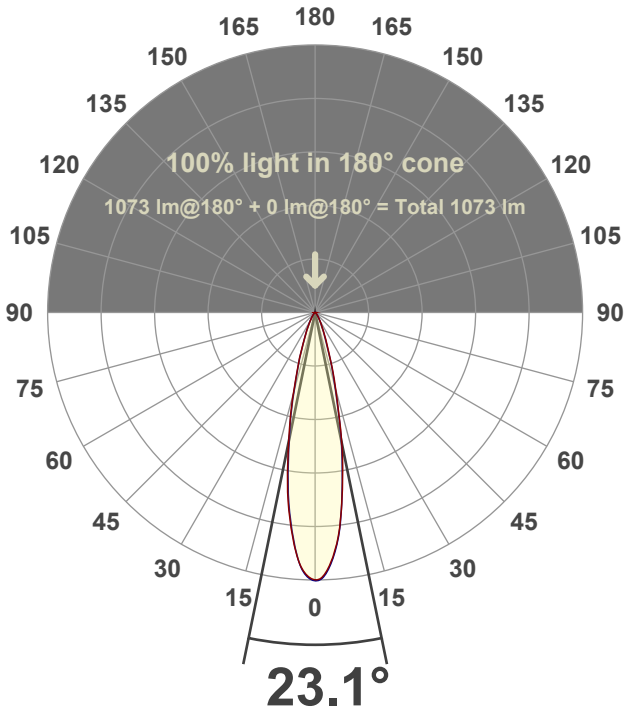
Output: 1073 lm

Peak: 4946 cd

Power: 14.0 W



Beam angle



Test number:
CR3D-RF-DR-AD14-45MM 15°-325mA-3018

Luminaire Model:

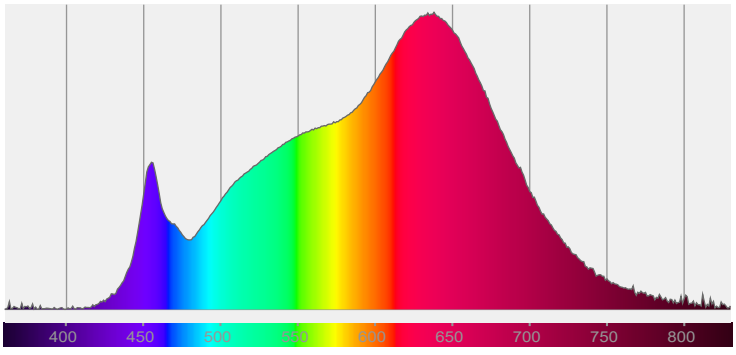
Date:
7/15/2026

LUM: 1073

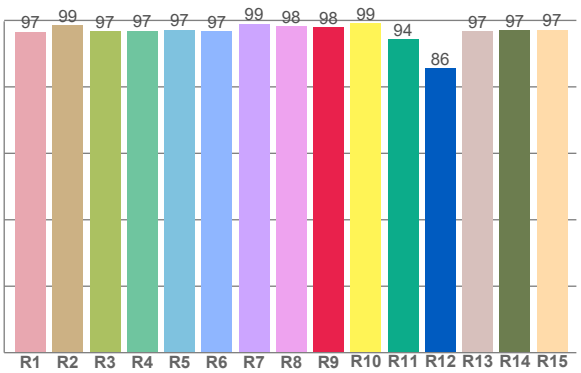
2986 K

***Variation due to source size, bezel geometry, or secondary optics**

Spectra



CRI: 97.5 (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 diviation from black body
	CRI	CRI R9	TM30 R_f	TM30 R_g	CQS	x	y	u	v	Δuv
	97.5	97.9	94.6	100.9	95.9	0.437	0.402	0.251	0.347	-0.0007

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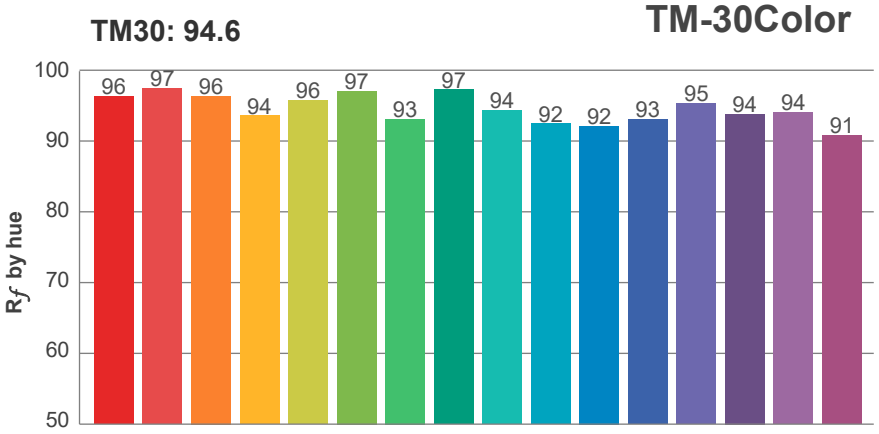
TM-30Color

R_f 94.6

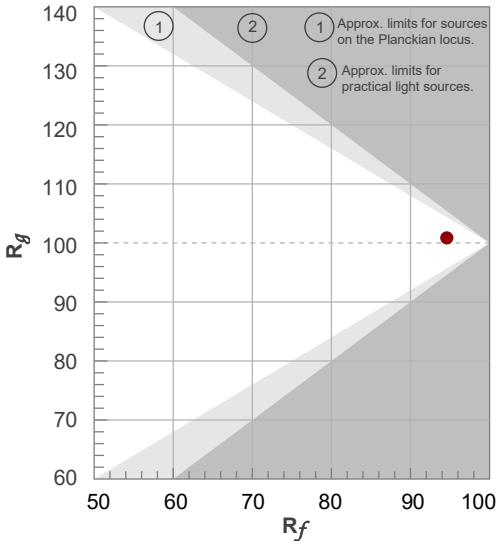
Fidelity index R_f

R_g 100.9

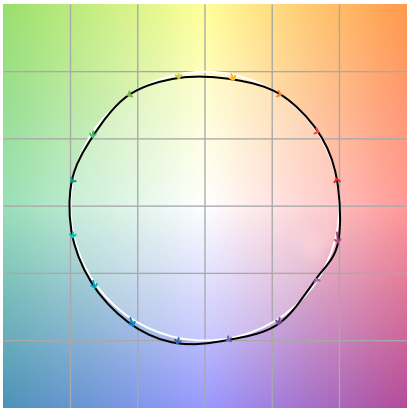
Gammut index R_g

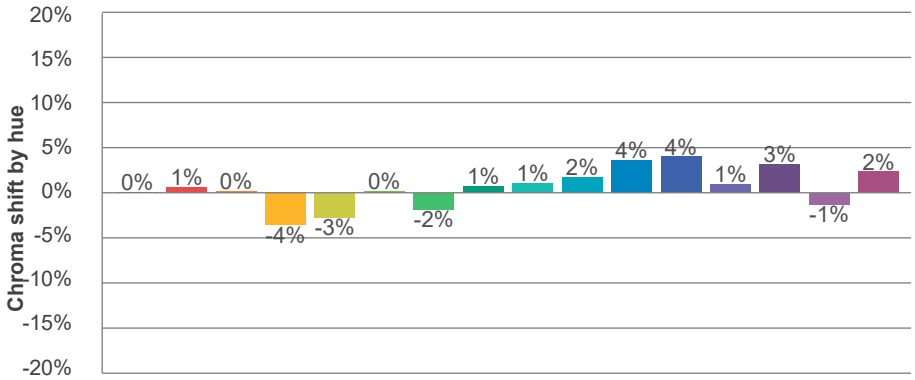


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	96	0%	-1%
4	94	-4%	-3%
5	96	-3%	1%
6	97	0%	2%
7	93	-2%	4%
8	97	1%	1%
9	94	1%	4%
10	92	2%	5%
11	92	4%	5%
12	93	4%	0%
13	95	1%	-3%
14	94	3%	-3%
15	94	-1%	1%
16	91	2%	-7%



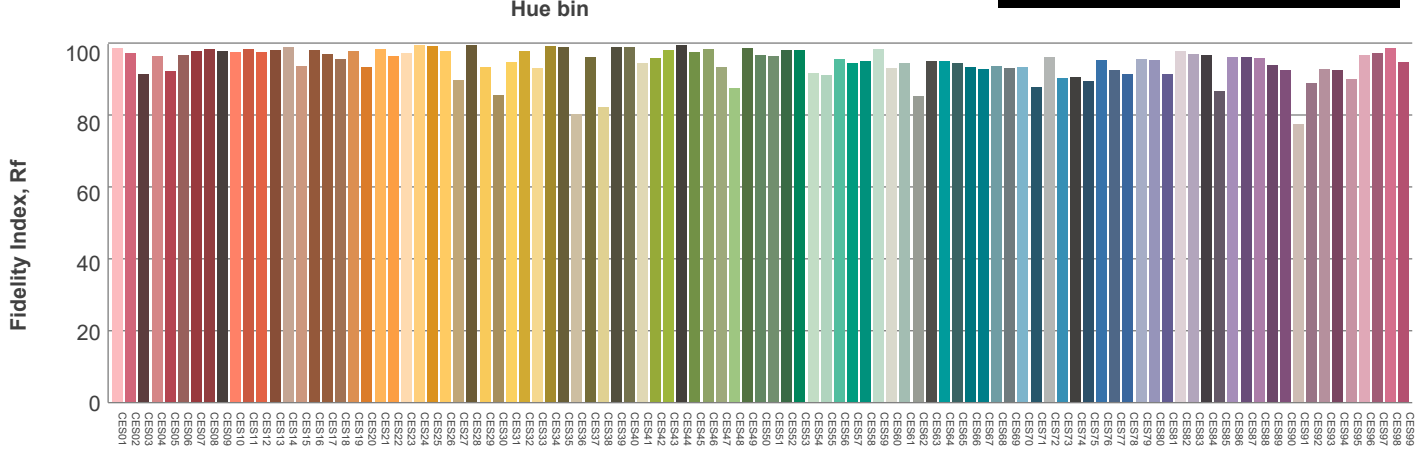
Color vector graphics





Color distortion



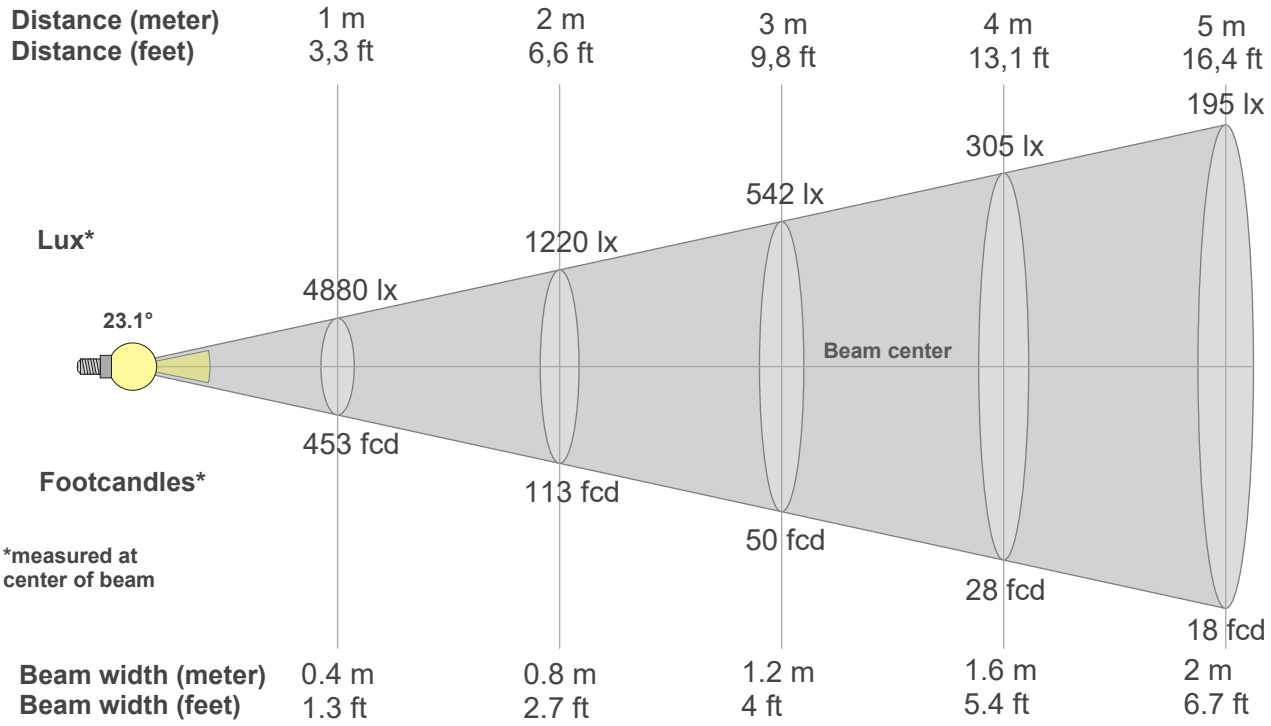


Color Evaluation Sample

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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
4880lx	1220lx	542lx	305lx	195lx	136lx	100lx	76lx	60lx	49lx	40lx	34lx	29lx	25lx	22lx	19lx	17lx	15lx	14lx	12lx
453.4fc	113.3fc	50.4fcd	28.3fcd	18.1fcd	12.6fcd	9.3fcd	7.1fcd	5.6fcd	4.5fcd	3.7fcd	3.1fcd	2.7fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4880	4821	4496	4160	3559	2958	2373	1795	1307	986	667	529	391	300	234	178	145	111	91	71
100%	99%	92%	85%	73%	61%	49%	37%	27%	20%	14%	11%	8%	6%	5%	4%	3%	2%	2%	1%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4880	4867	4514	4162	3555	2913	2315	1754	1241	938	634	483	360	271	216	165	137	110	90	73
100%	100%	92%	85%	73%	60%	47%	36%	25%	19%	13%	10%	7%	6%	4%	3%	3%	2%	2%	1%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4880	4771	4560	4070	3580	2978	2368	1852	1406	1011	779	548	428	322	244	190	142	115	88	70
100%	98%	93%	83%	73%	61%	49%	38%	29%	21%	16%	11%	9%	7%	5%	4%	3%	2%	2%	1%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4880	4799	4538	4040	3531	2915	2300	1807	1357	992	756	527	420	314	244	190	145	116	87	70
100%	98%	93%	83%	72%	60%	47%	37%	28%	20%	15%	11%	9%	6%	5%	4%	3%	2%	2%	1%

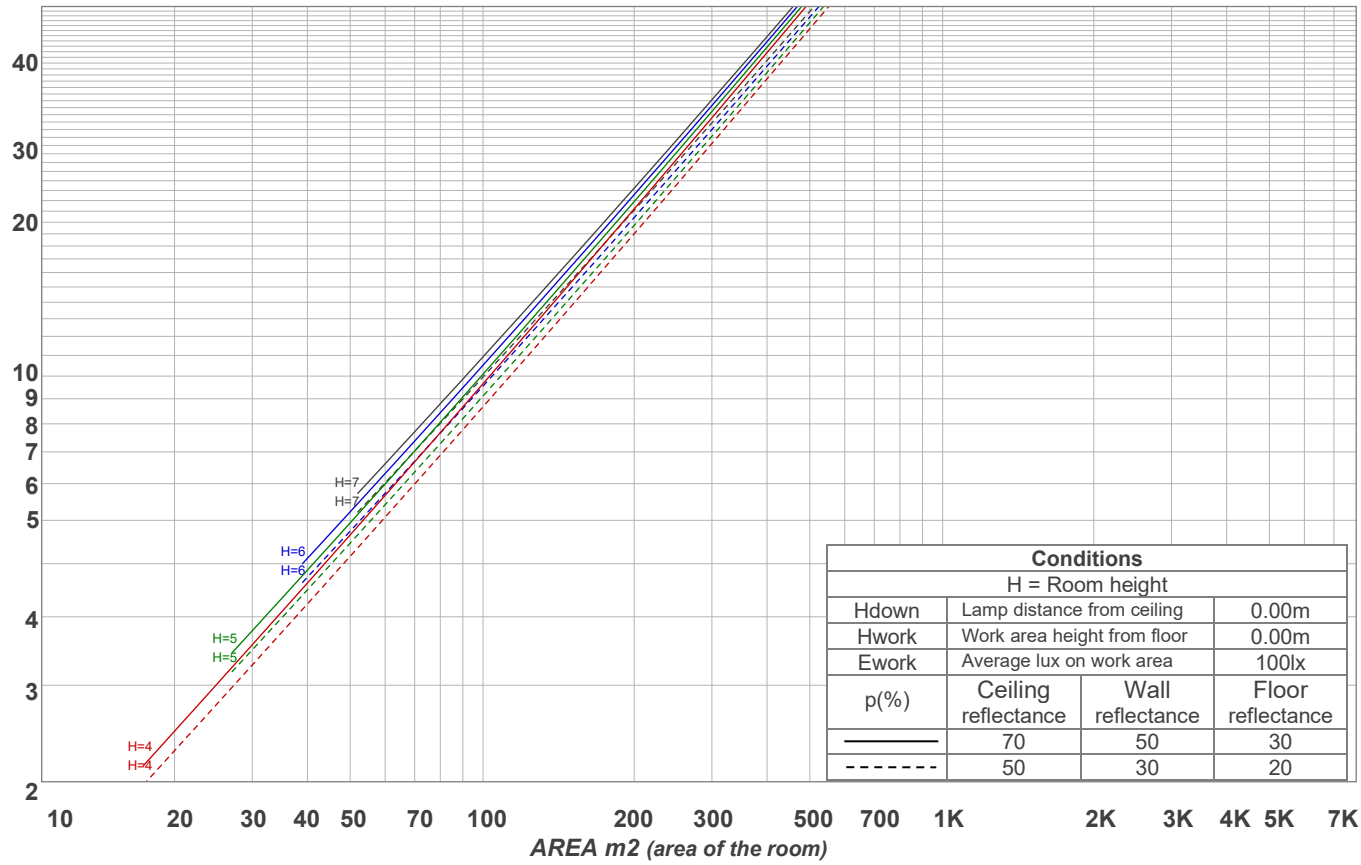
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.1°	**44.8°**	**66.5°**	**98.6%**	**97.0%**

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Light planning

Luminaire budgetary diagram



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	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	90	87	91	88	86	85
5	100	93	89	86	98	93	88	85	91	87	85	89	86	84	88	85	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79
7	94	87	82	79	93	86	82	79	85	81	79	84	81	78	83	80	78	77
8	91	84	80	77	90	83	79	76	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	75	72	78	74	72	77	74	71	77	74	71	70

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
371 lm	427 lm	163 lm	64.4 lm	24.0 lm	8.92 lm	6.16 lm	4.75 lm	3.78 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