specialty lighting industries

Light efficiency:

55 Lumen/Watt

Light quality:

CRI: 97.0

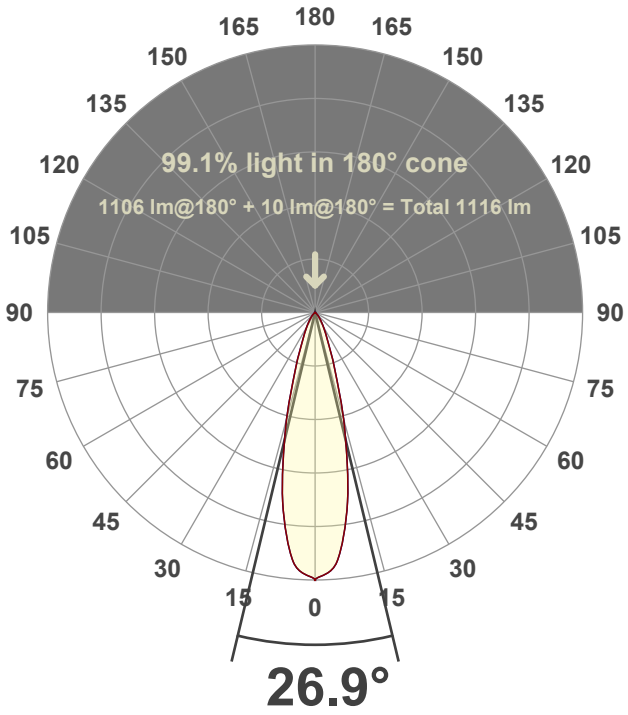
Output: 1106 lm

Peak: 3862 cd

Power: 20.0 W



Beam angle



Test number:
CR3D-RF-DR-A20-3018-24°

Luminaire Model:

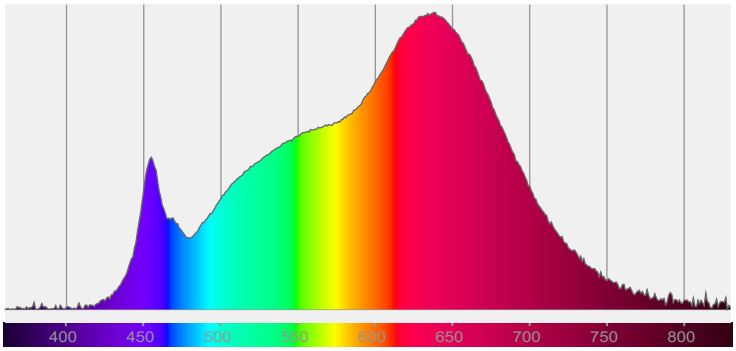
Date:
7/15/2026

LUM: 1106

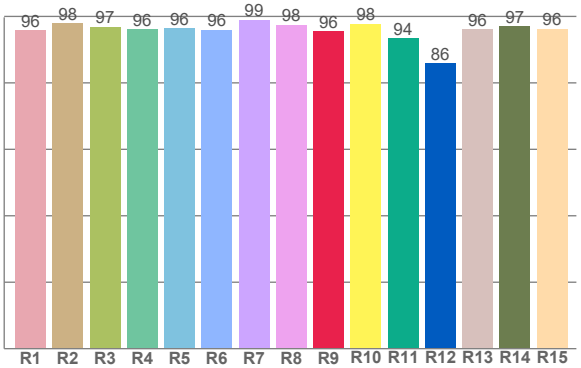
3002 K

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

Spectra



CRI: 97.0 (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
	97.0	95.6	94.6	101.3	95.9	0.435	0.401	0.251	0.346	-0.0012

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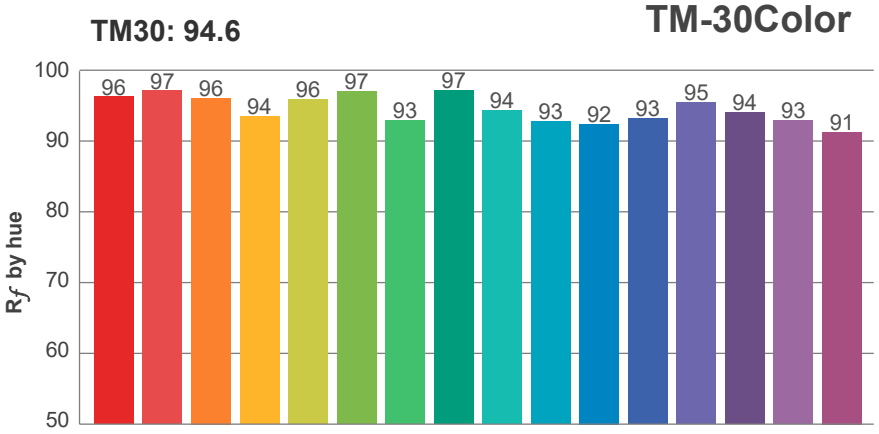
TM-30Color

R_f 94.6

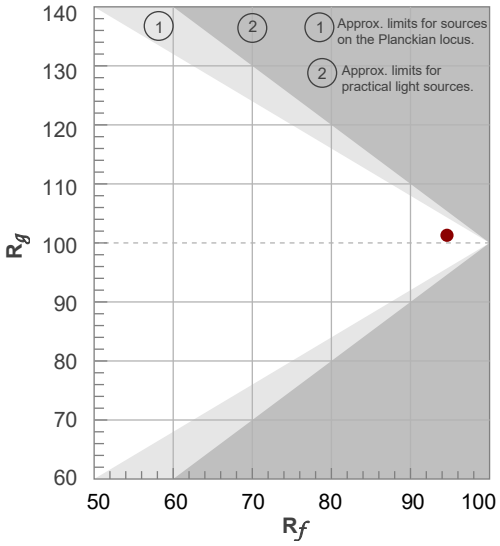
Fidelity index R_f

R_g 101.3

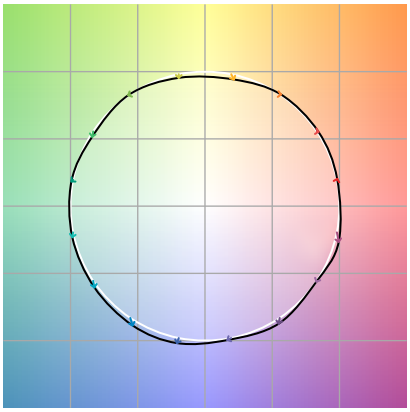
Gammut index R_g

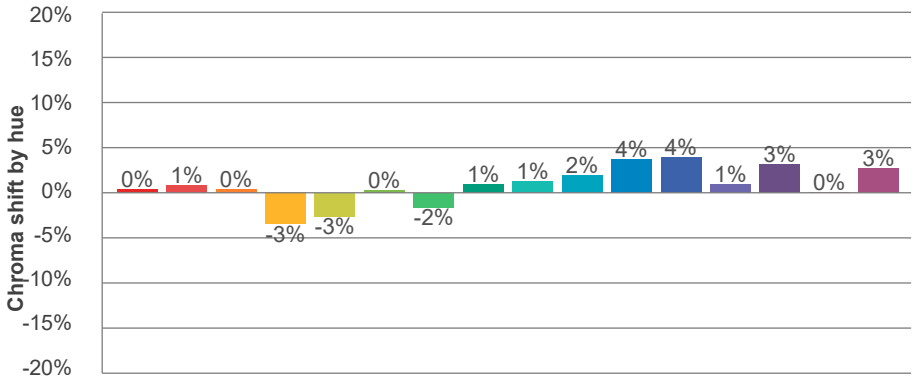


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	96	0%	-1%
4	94	-3%	-3%
5	96	-3%	1%
6	97	0%	2%
7	93	-2%	4%
8	97	1%	1%
9	94	1%	3%
10	93	2%	5%
11	92	4%	5%
12	93	4%	-1%
13	95	1%	-3%
14	94	3%	-3%
15	93	0%	-1%
16	91	3%	-7%



Color vector graphics

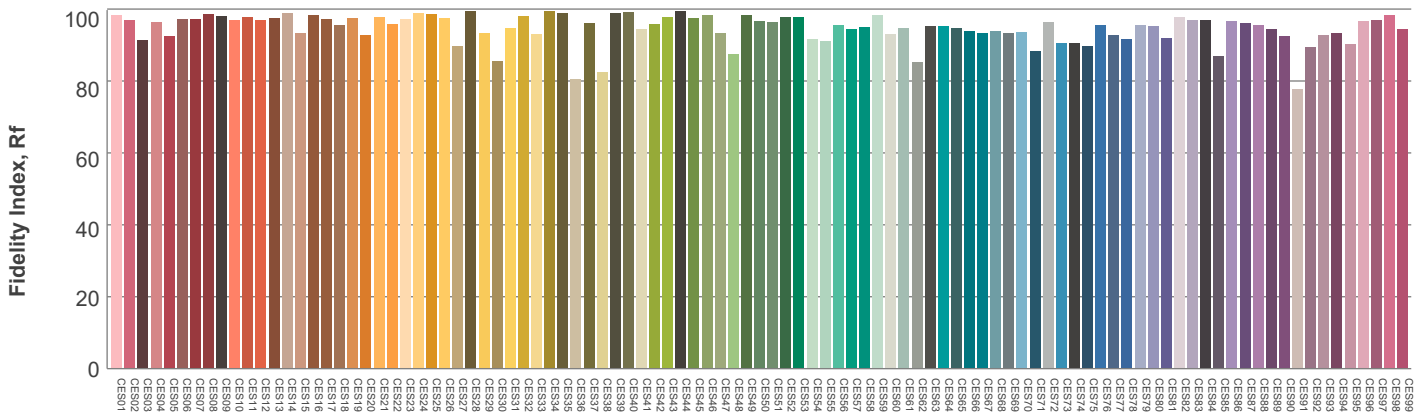




Color distortion



Hue bin

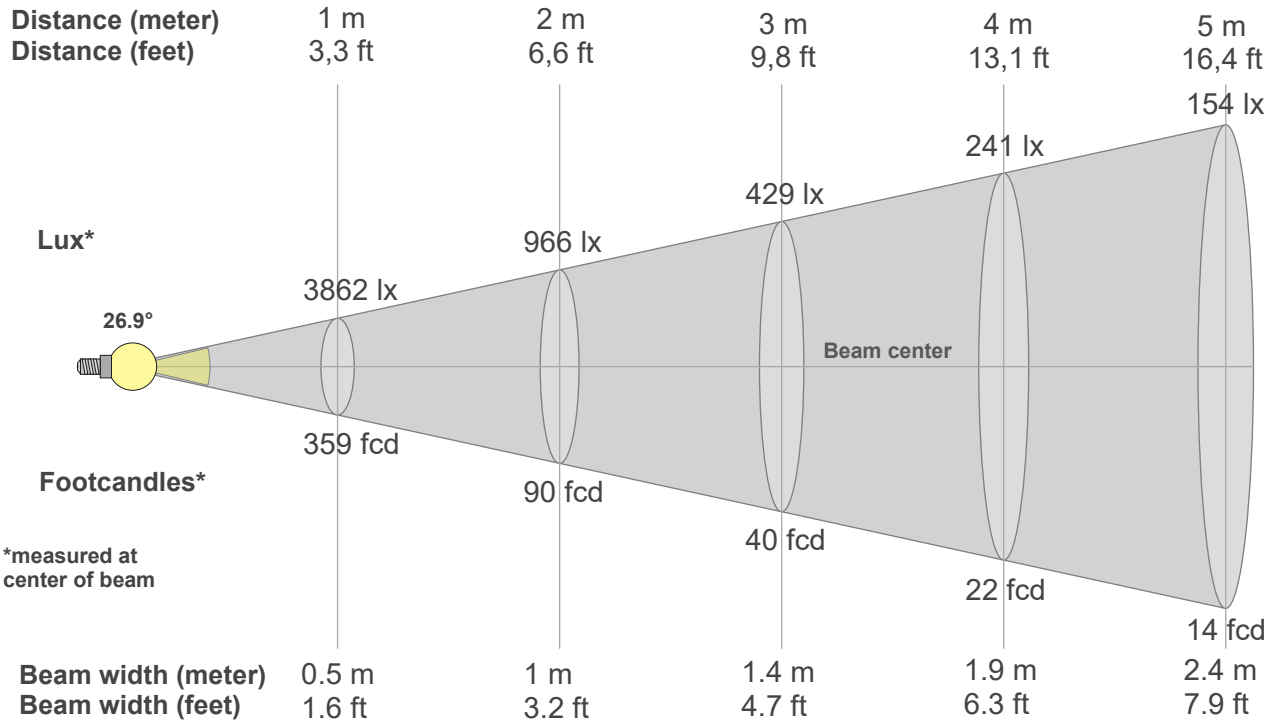


Color Evaluation Sample

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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
3862lx	966lx	429lx	241lx	154lx	107lx	79lx	60lx	48lx	39lx	32lx	27lx	23lx	20lx	17lx	15lx	13lx	12lx	11lx	10lx
358.8fc	89.7fcd	39.9fcd	22.4fcd	14.4fcd	10fcd	7.3fcd	5.6fcd	4.4fcd	3.6fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

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°
3862	3781	3684	3458	3099	2725	2266	1807	1428	1068	792	615	449	373	297	245	201	162	133	105
100%	98%	95%	90%	80%	71%	59%	47%	37%	28%	20%	16%	12%	10%	8%	6%	5%	4%	3%	3%

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°
3862	3781	3684	3458	3099	2725	2266	1807	1428	1068	792	615	449	373	297	245	201	162	133	105
100%	98%	95%	90%	80%	71%	59%	47%	37%	28%	20%	16%	12%	10%	8%	6%	5%	4%	3%	3%

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°
3862	3781	3684	3458	3099	2725	2266	1807	1428	1068	792	615	449	373	297	245	201	162	133	105
100%	98%	95%	90%	80%	71%	59%	47%	37%	28%	20%	16%	12%	10%	8%	6%	5%	4%	3%	3%

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°
3862	3781	3684	3458	3099	2725	2266	1807	1428	1068	792	615	449	373	297	245	201	162	133	105
100%	98%	95%	90%	80%	71%	59%	47%	37%	28%	20%	16%	12%	10%	8%	6%	5%	4%	3%	3%

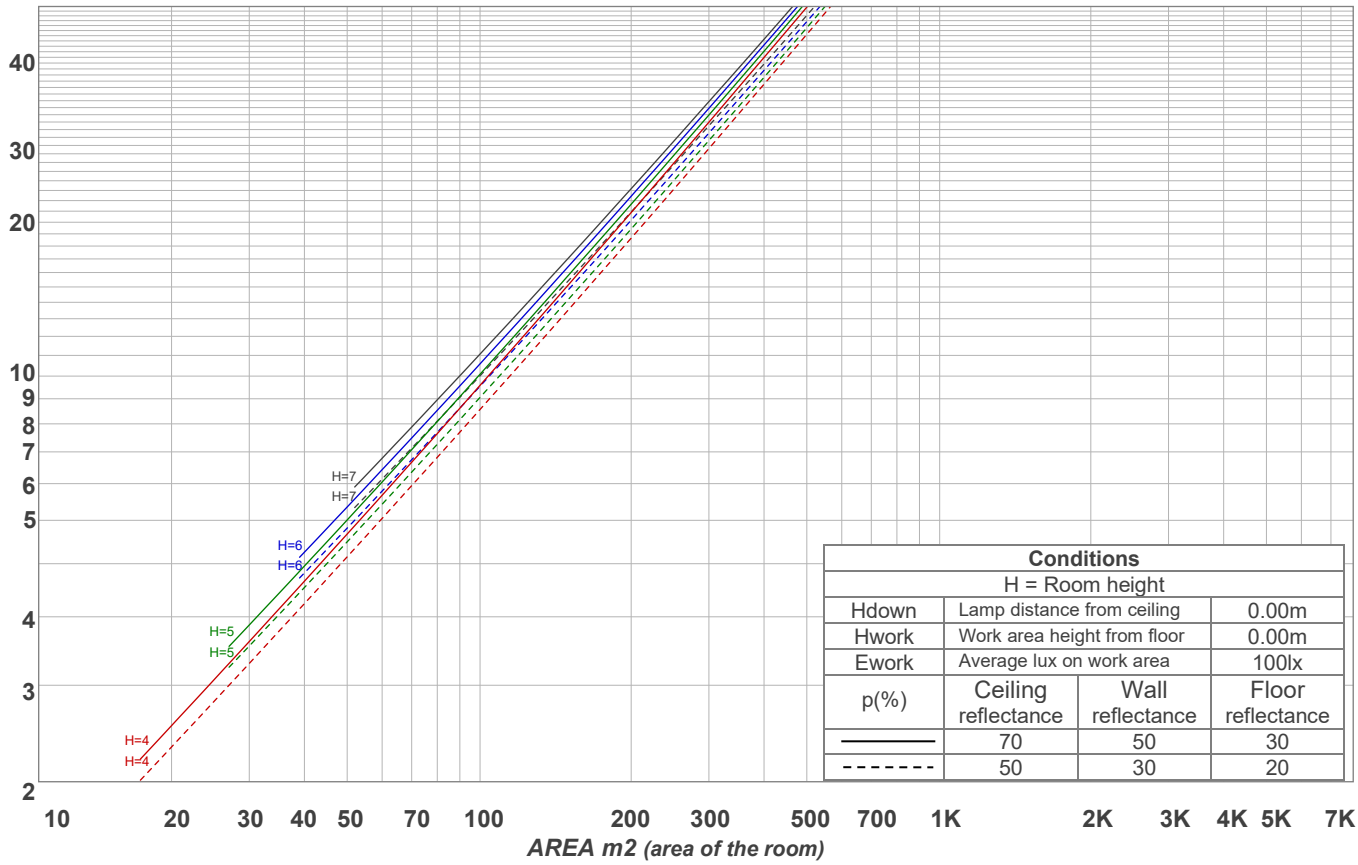
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26.9°	**51.3°**	**77.8°**	**98.5%**	**96.4%**

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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	76	90	83	79	76	82	78	75	81	77	75	80	77	74	73
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71
9	85	78	73	70	85	77	73	70	77	73	70	76	72	69	75	72	69	68
10	83	75	71	68	82	75	70	67	74	70	67	73	70	67	73	69	67	66

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
312 lm	438 lm	199 lm	93.8 lm	36.5 lm	10.8 lm	7.63 lm	5.15 lm	3.30 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