specialty lighting industries

Light efficiency:

56 Lumen/Watt

Light quality:

CRI: 97.0

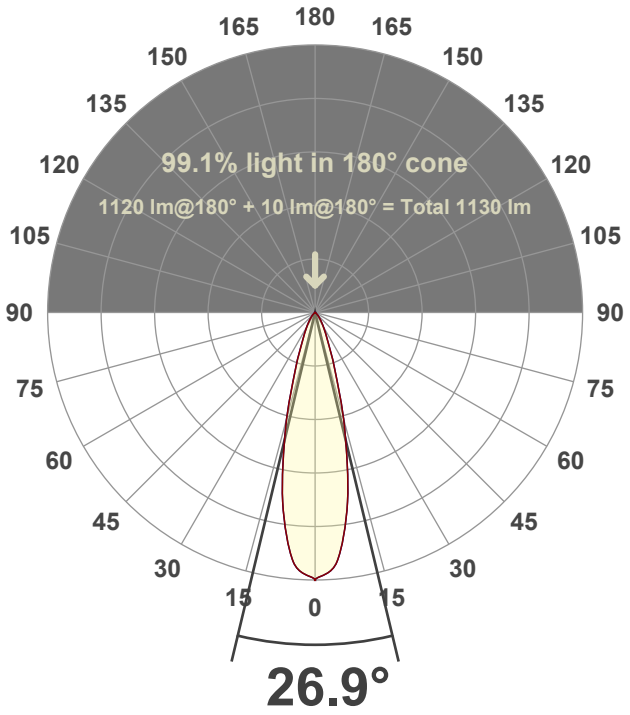
Output: 1120 lm

Peak: 3911 cd

Power: 20.0 W



Beam angle



Test number:
CR3D-RA-DR-AD20-3018-24°
Luminaire Model:

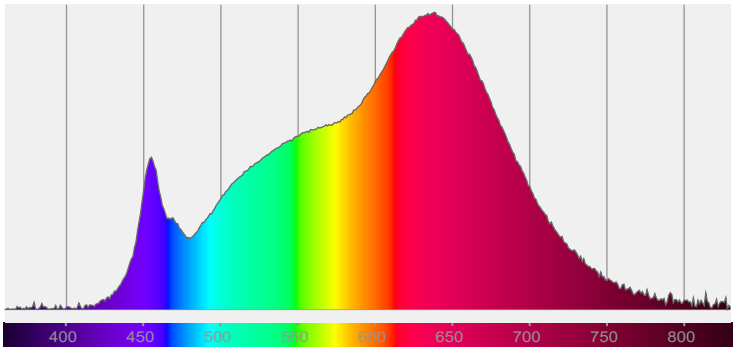
Date:
7/15/2026

LUM: 1120

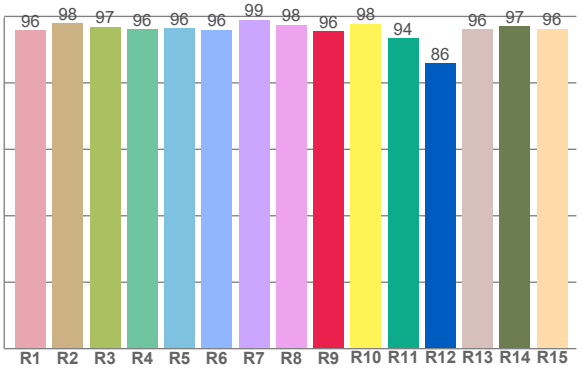
3002 K

***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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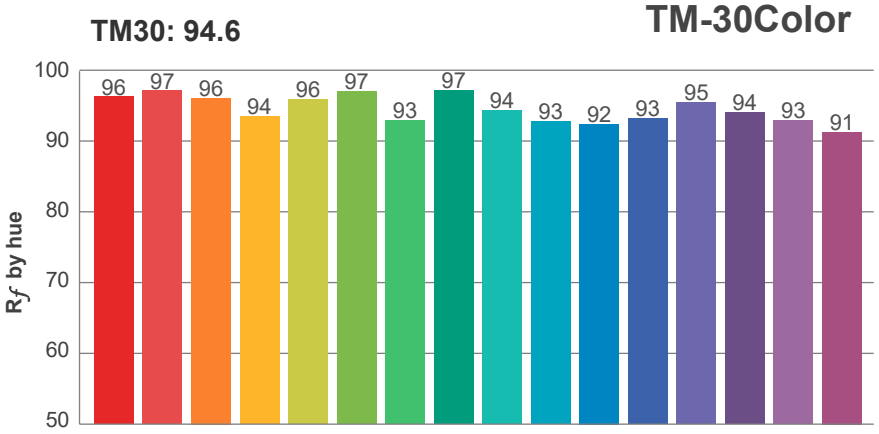
TM-30Color

R_f 94.6

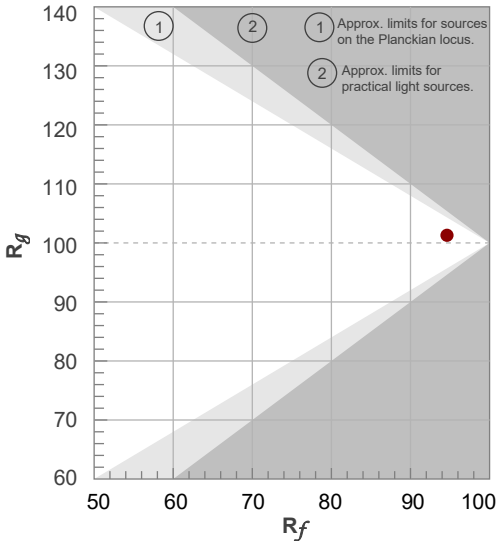
Fidelity index R_f

R_g 101.3

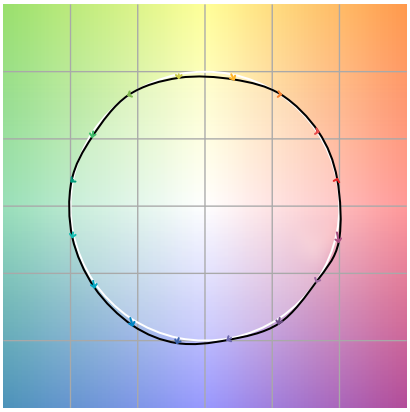
Gammut index R_g

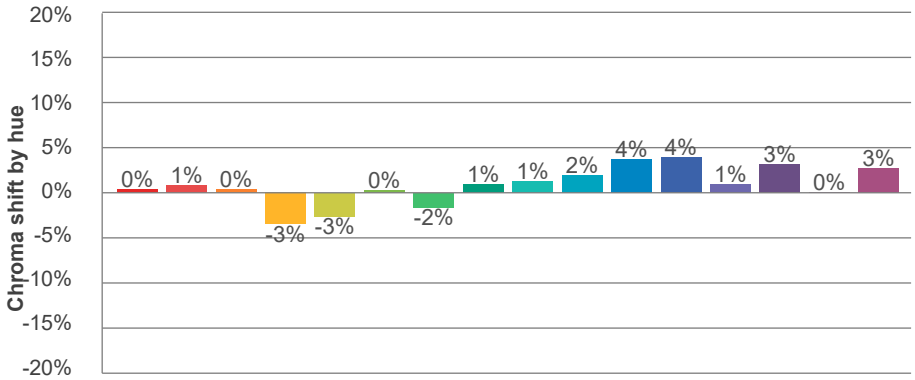


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	96	0%	-1%
4	94	-3%	-3%
5	96	-3%	1%
6	97	0%	2%
7	93	-2%	4%
8	97	1%	1%
9	94	1%	3%
10	93	2%	5%
11	92	4%	5%
12	93	4%	-1%
13	95	1%	-3%
14	94	3%	-3%
15	93	0%	-1%
16	91	3%	-7%



Color vector graphics

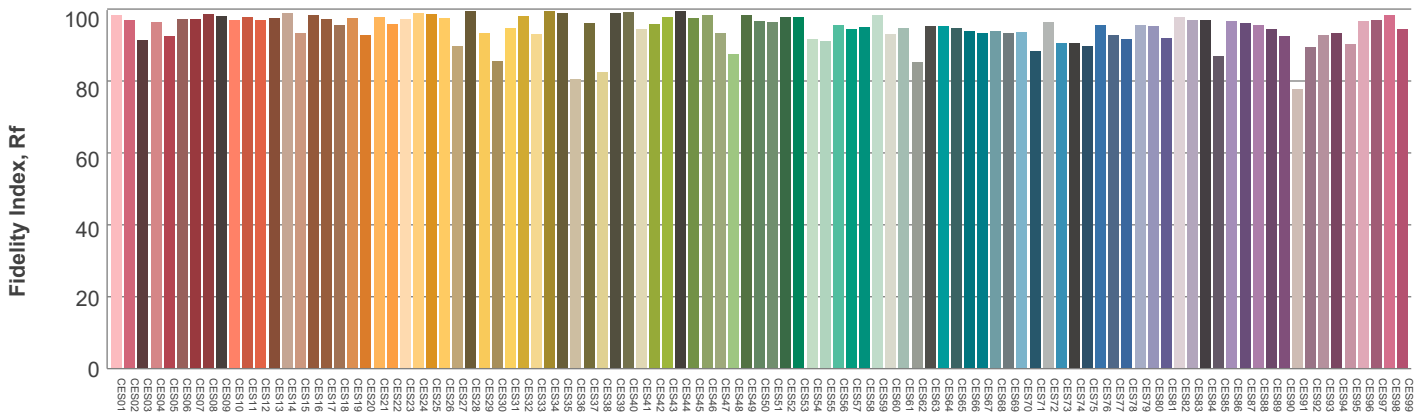




Color distortion



Hue bin

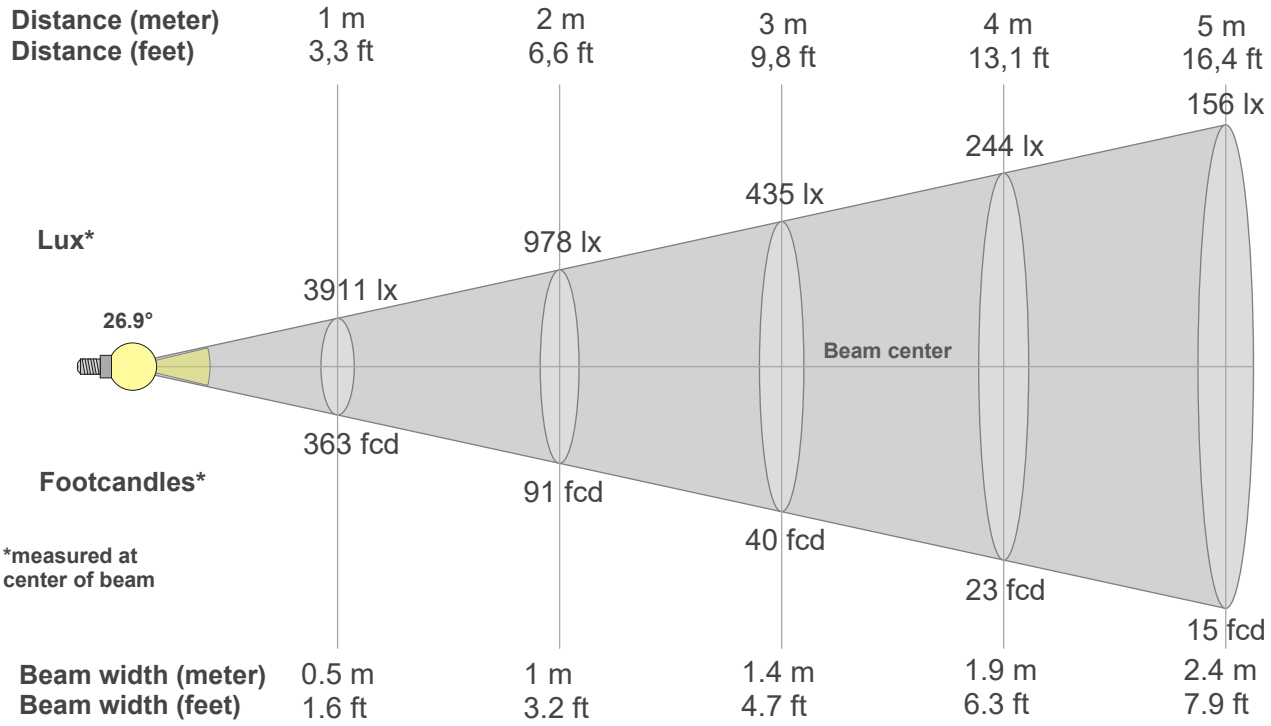


Color Evaluation Sample

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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
3911lx	978lx	435lx	244lx	156lx	109lx	80lx	61lx	48lx	39lx	32lx	27lx	23lx	20lx	17lx	15lx	14lx	12lx	11lx	10lx
363.4fc	90.8fcd	40.4fcd	22.7fcd	14.5fcd	10.1fcd	7.4fcd	5.7fcd	4.5fcd	3.6fcd	3fcd	2.5fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	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°
3911	3829	3731	3502	3138	2760	2295	1830	1446	1082	802	622	455	378	301	248	203	165	135	106
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°
3911	3829	3731	3502	3138	2760	2295	1830	1446	1082	802	622	455	378	301	248	203	165	135	106
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°
3911	3829	3731	3502	3138	2760	2295	1830	1446	1082	802	622	455	378	301	248	203	165	135	106
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

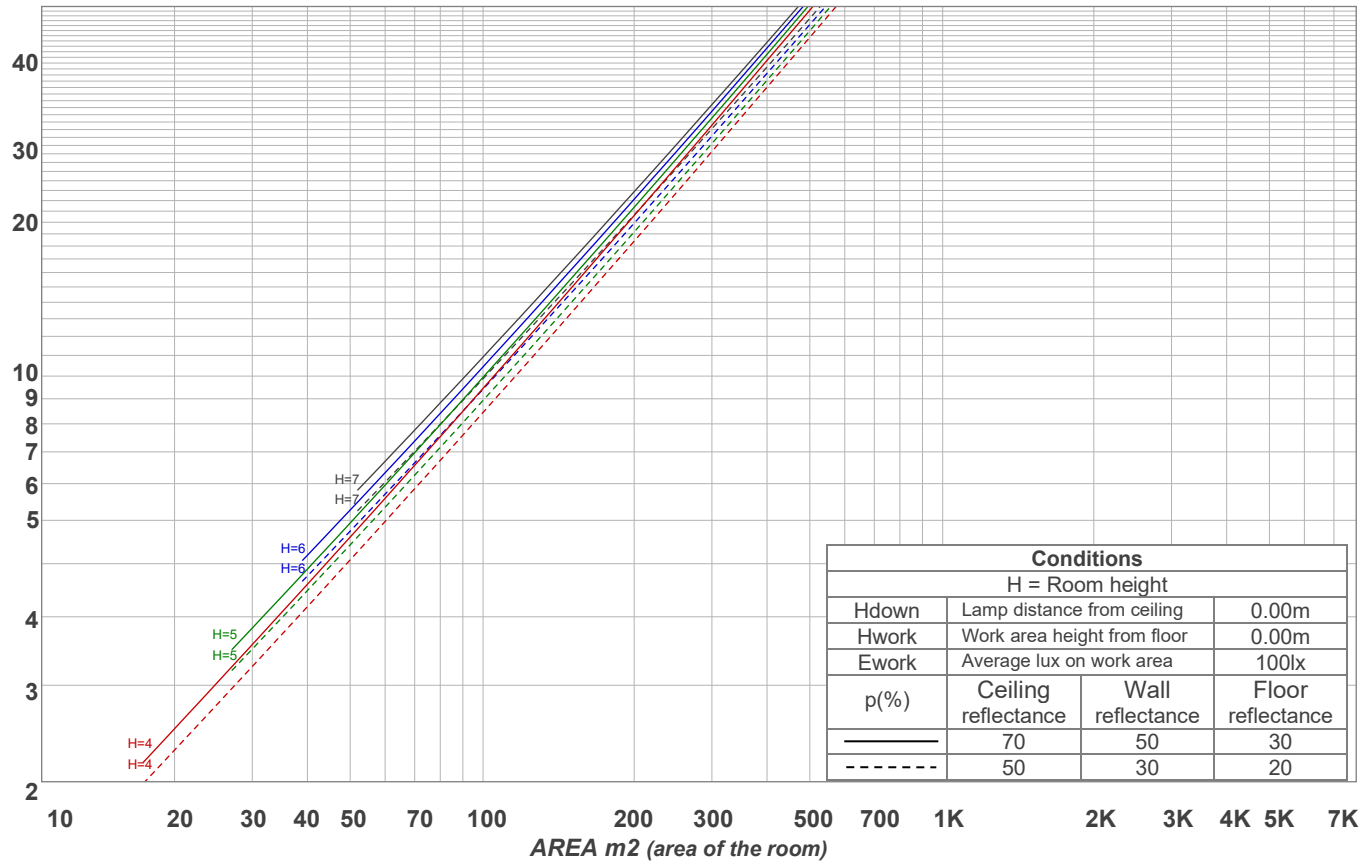
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3911	3829	3731	3502	3138	2760	2295	1830	1446	1082	802	622	455	378	301	248	203	165	135	106
100%	98%	95%	90%	80%	71%	59%	47%	37%	28%	20%	16%	12%	10%	8%	6%	5%	4%	3%	3%

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°
316 lm	443 lm	202 lm	95.0 lm	37.0 lm	10.9 lm	7.73 lm	5.21 lm	3.34 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