specialty lighting industries

Light efficiency:

68 Lumen/Watt

Light quality:

CRI: 97.0

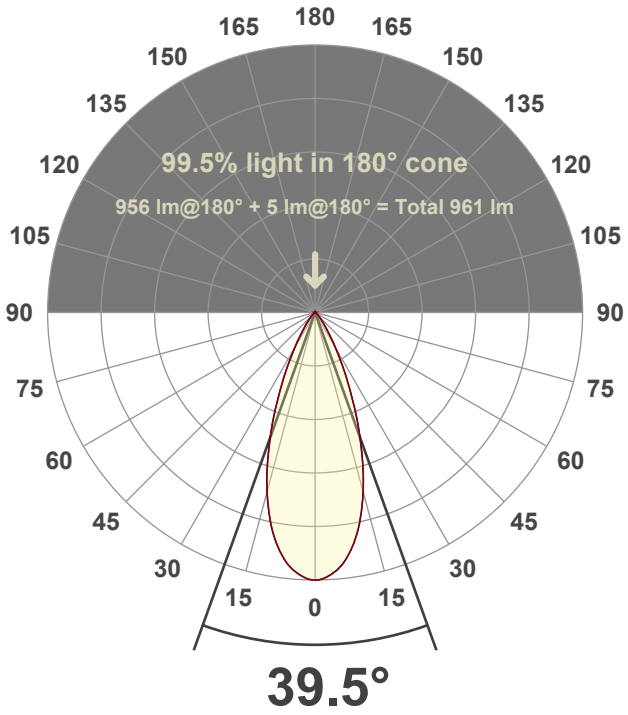
Output: 956 lm

Peak: 1939 cd

Power: 14.0 W



Beam angle



Test number:
CR3D-RA-DR-AD14-3018-36°

Luminaire Model:

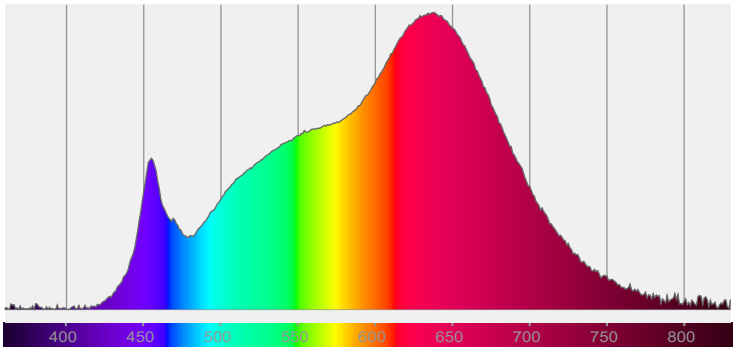
Date:
7/15/2026

LUM: 956

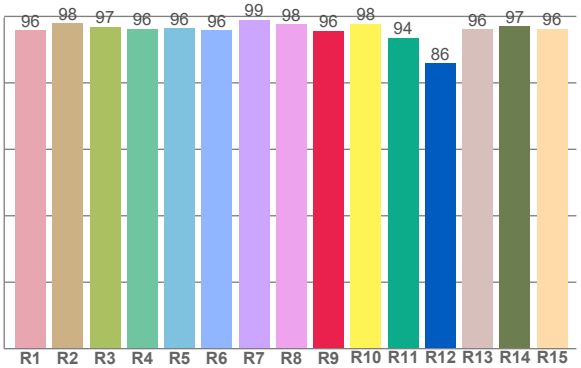
2999 K

***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	95.7	94.5	101.3	95.9	0.435	0.401	0.251	0.347	-0.0012

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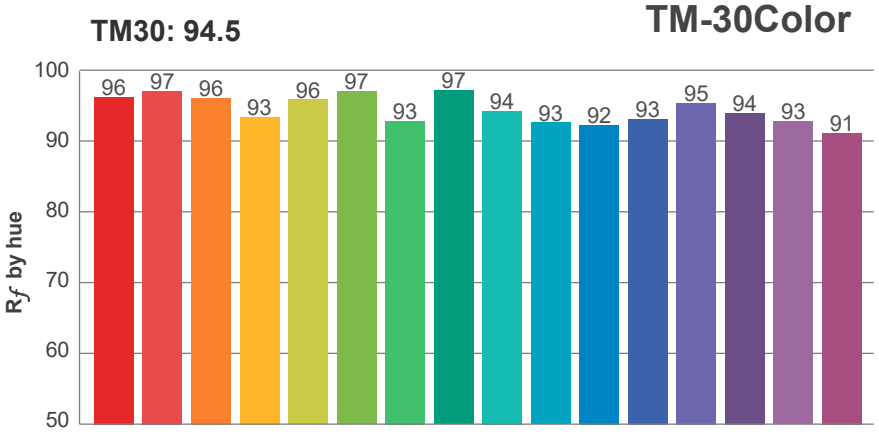
TM-30Color

R_f 94.5

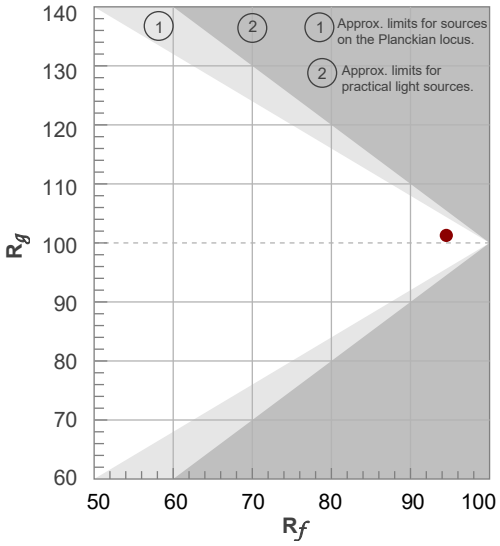
Fidelity index R_f

R_g 101.3

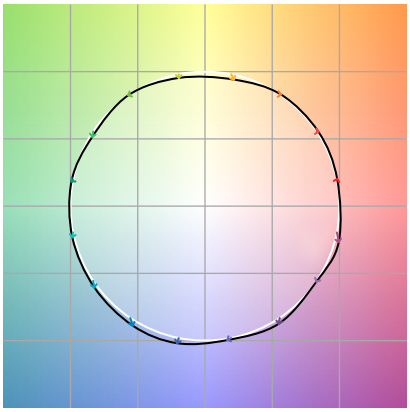
Gammut index R_g

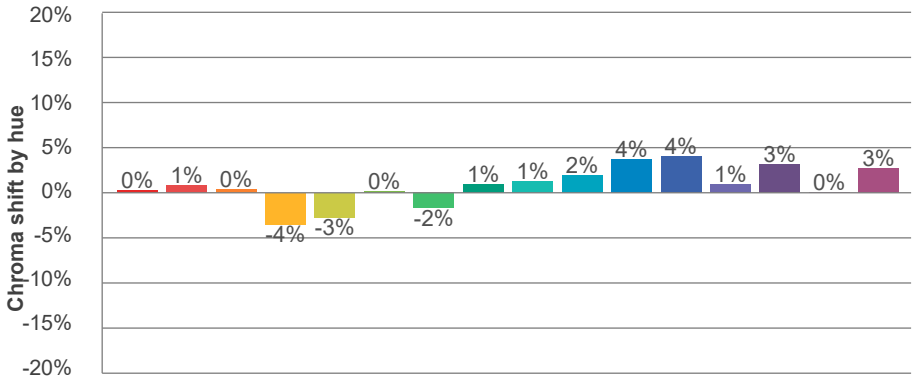


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	96	0%	-1%
4	93	-4%	-3%
5	96	-3%	1%
6	97	0%	2%
7	93	-2%	4%
8	97	1%	1%
9	94	1%	3%
10	93	2%	5%
11	92	4%	5%
12	93	4%	-1%
13	95	1%	-3%
14	94	3%	-3%
15	93	0%	-1%
16	91	3%	-7%



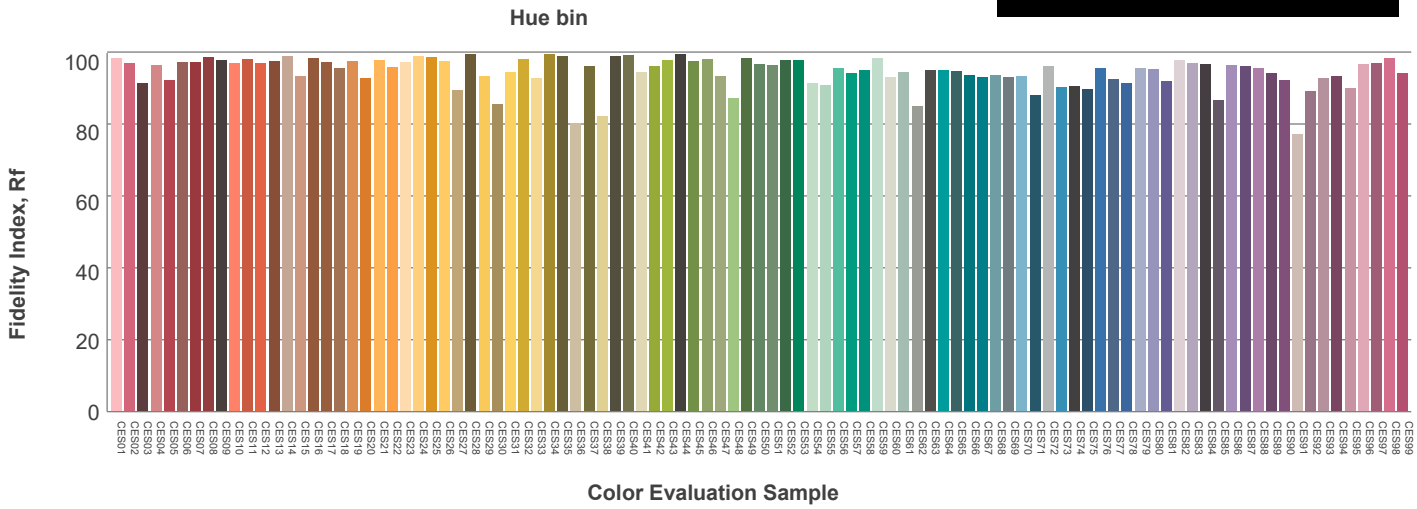
Color vector graphics





Color distortion

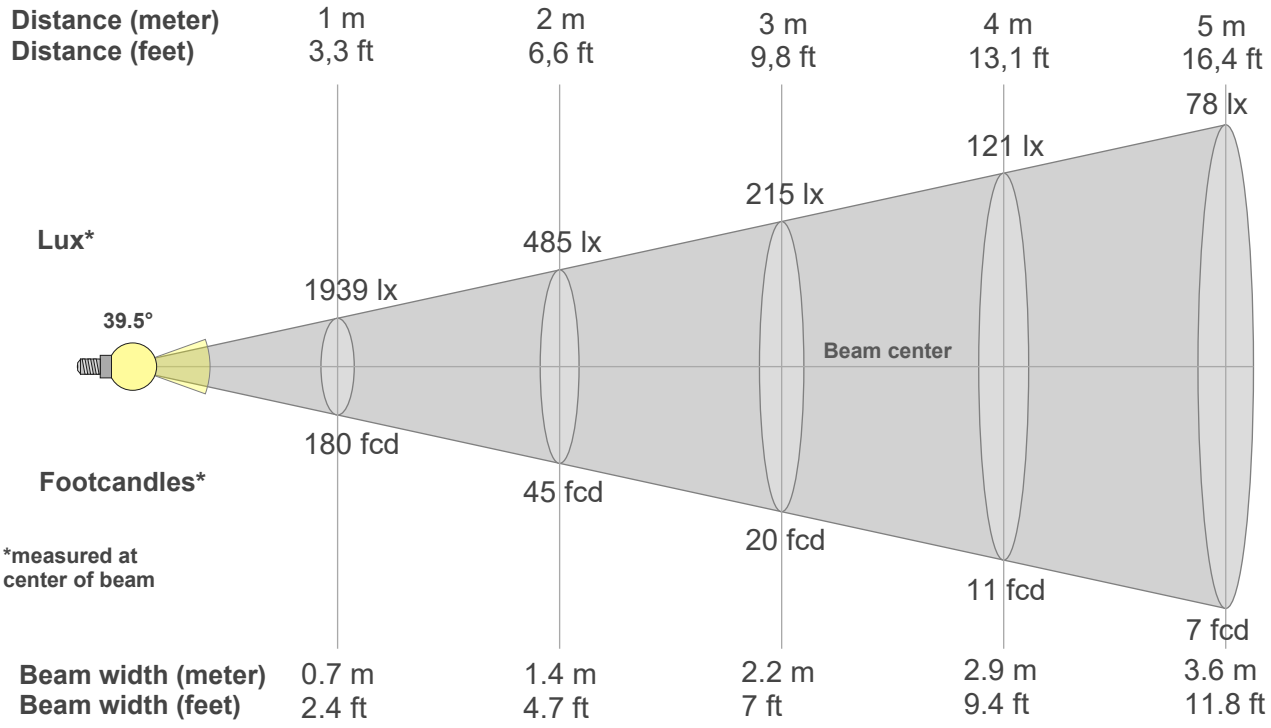




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Beam details



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
1939lx	485lx	215lx	121lx	78lx	54lx	40lx	30lx	24lx	19lx	16lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx
180.1fc	45fcd	20fcd	11.3fcd	7.2fcd	5fcd	3.7fcd	2.8fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd

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°
1939	1938	1892	1847	1766	1670	1558	1418	1277	1113	950	796	647	511	404	297	234	171	129	98
100%	100%	98%	95%	91%	86%	80%	73%	66%	57%	49%	41%	33%	26%	21%	15%	12%	9%	7%	5%

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°
1939	1938	1892	1847	1766	1670	1558	1418	1277	1113	950	796	647	511	404	297	234	171	129	98
100%	100%	98%	95%	91%	86%	80%	73%	66%	57%	49%	41%	33%	26%	21%	15%	12%	9%	7%	5%

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°
1939	1938	1892	1847	1766	1670	1558	1418	1277	1113	950	796	647	511	404	297	234	171	129	98
100%	100%	98%	95%	91%	86%	80%	73%	66%	57%	49%	41%	33%	26%	21%	15%	12%	9%	7%	5%

Intensities in 270° c-plane

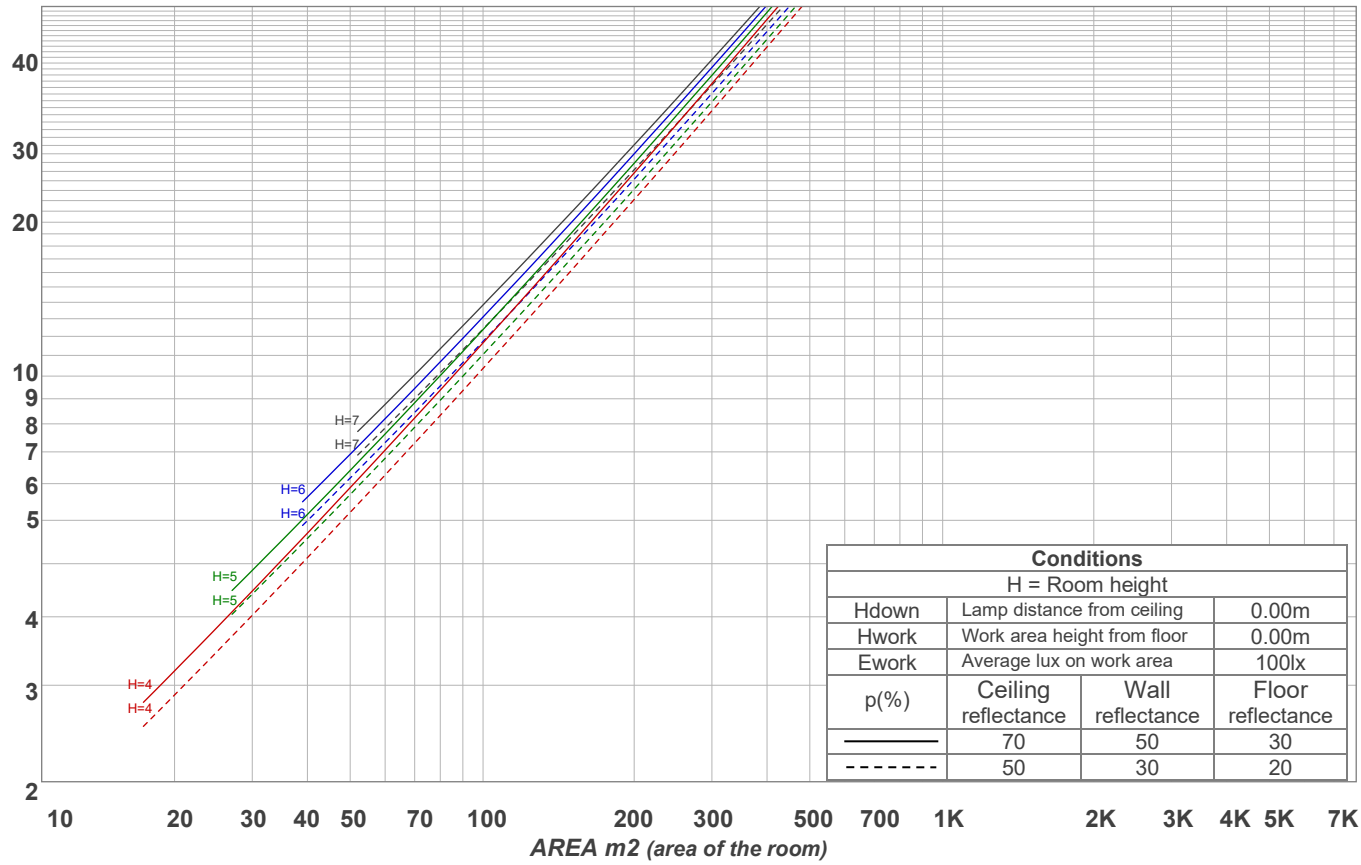
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1939	1938	1892	1847	1766	1670	1558	1418	1277	1113	950	796	647	511	404	297	234	171	129	98
100%	100%	98%	95%	91%	86%	80%	73%	66%	57%	49%	41%	33%	26%	21%	15%	12%	9%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.5°	66.6°	86.3°	98.6%	96.4%

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Light planning

Luminaire budgetary diagram



Conditions		
H = Room height		
Hdown	Lamp distance from ceiling	0.00m
Hwork	Work area height from floor	0.00m
Ework	Average lux on work area	100lx
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
———	70	50	30
- - - - - - -	50	30	20

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	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	69
8	85	76	71	68	84	76	71	67	75	70	67	74	70	67	73	69	67	65
9	81	73	68	64	80	73	68	64	72	67	64	71	67	64	70	66	64	62
10	78	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	60

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
173 lm	366 lm	264 lm	98.8 lm	30.8 lm	9.86 lm	6.16 lm	4.54 lm	2.85 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