specialty lighting industries

Light efficiency:

53 Lumen/Watt

Light quality:

CRI: 97.6

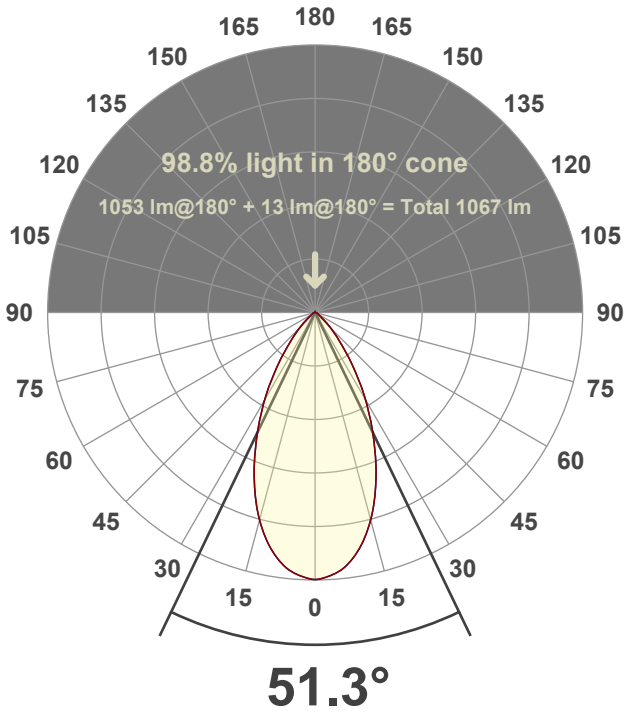
Output: 1053 lm

Peak: 1289 cd

Power: 20.0 W



Beam angle



51.3°

Test number:
CR3D-RF-DR-A20-3018-50°

Luminaire Model:

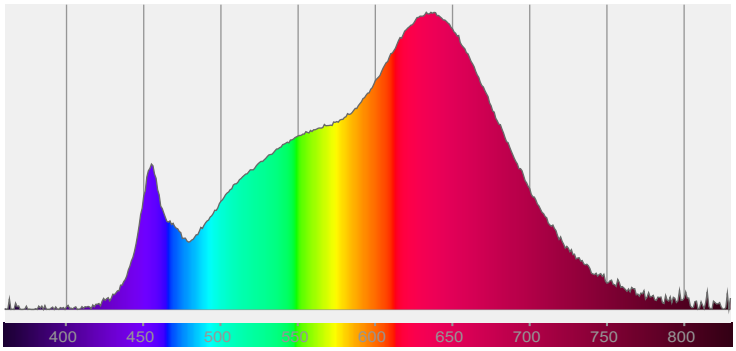
Date:
7/15/2026

LUM: 1053

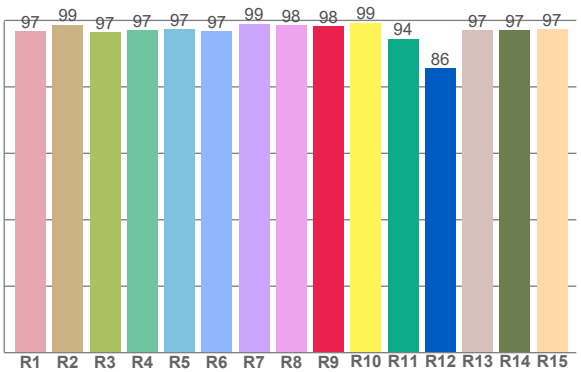
2962 K

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

Spectra



CRI: 97.6 (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
	97.6	98.3	94.6	100.8	95.8	0.439	0.403	0.252	0.348	-0.0006

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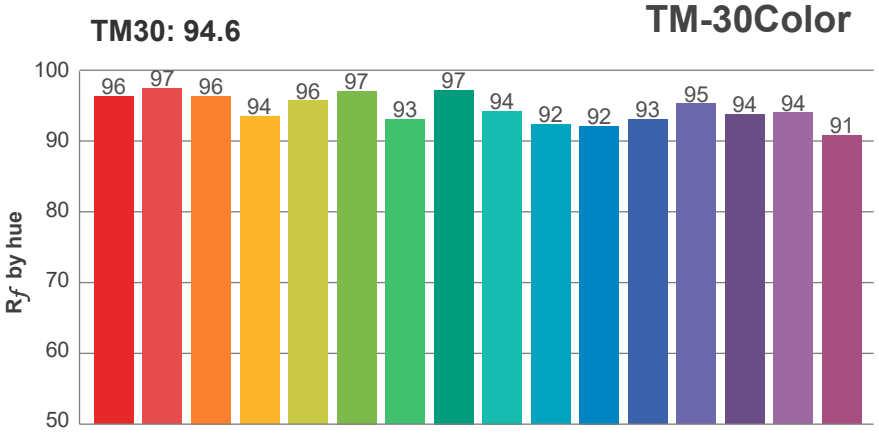
R_f 94.6

Fidelity index R_f

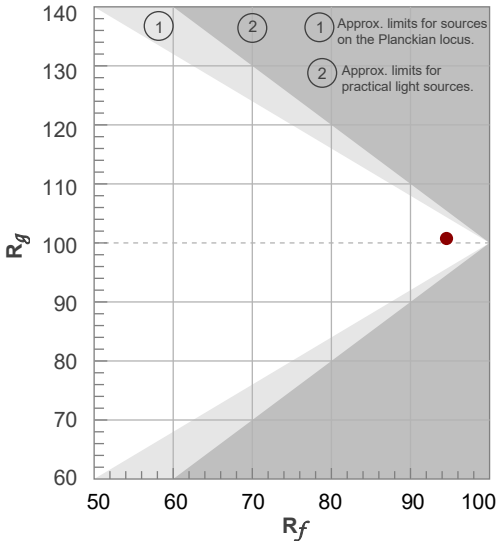
R_g 100.8

Gammut index R_g

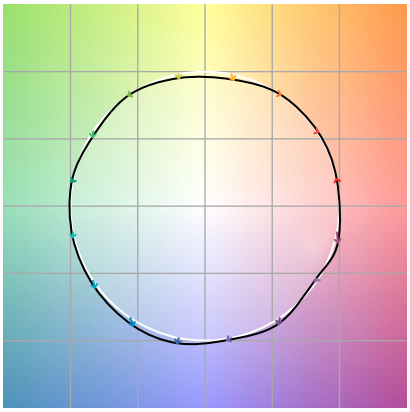
TM-30Color

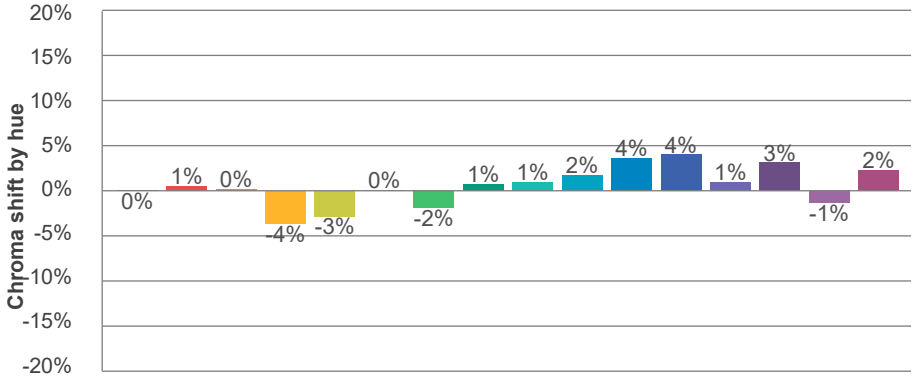


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	96	0%	-1%
4	94	-4%	-3%
5	96	-3%	1%
6	97	0%	2%
7	93	-2%	4%
8	97	1%	2%
9	94	1%	4%
10	92	2%	5%
11	92	4%	5%
12	93	4%	0%
13	95	1%	-3%
14	94	3%	-3%
15	94	-1%	1%
16	91	2%	-7%



Color vector graphics

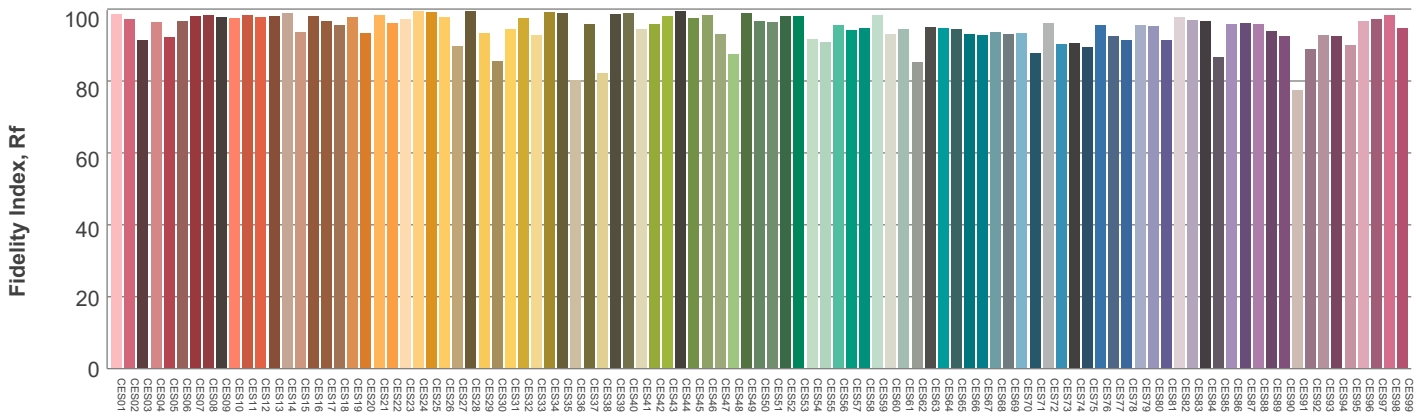




Color distortion



Hue bin

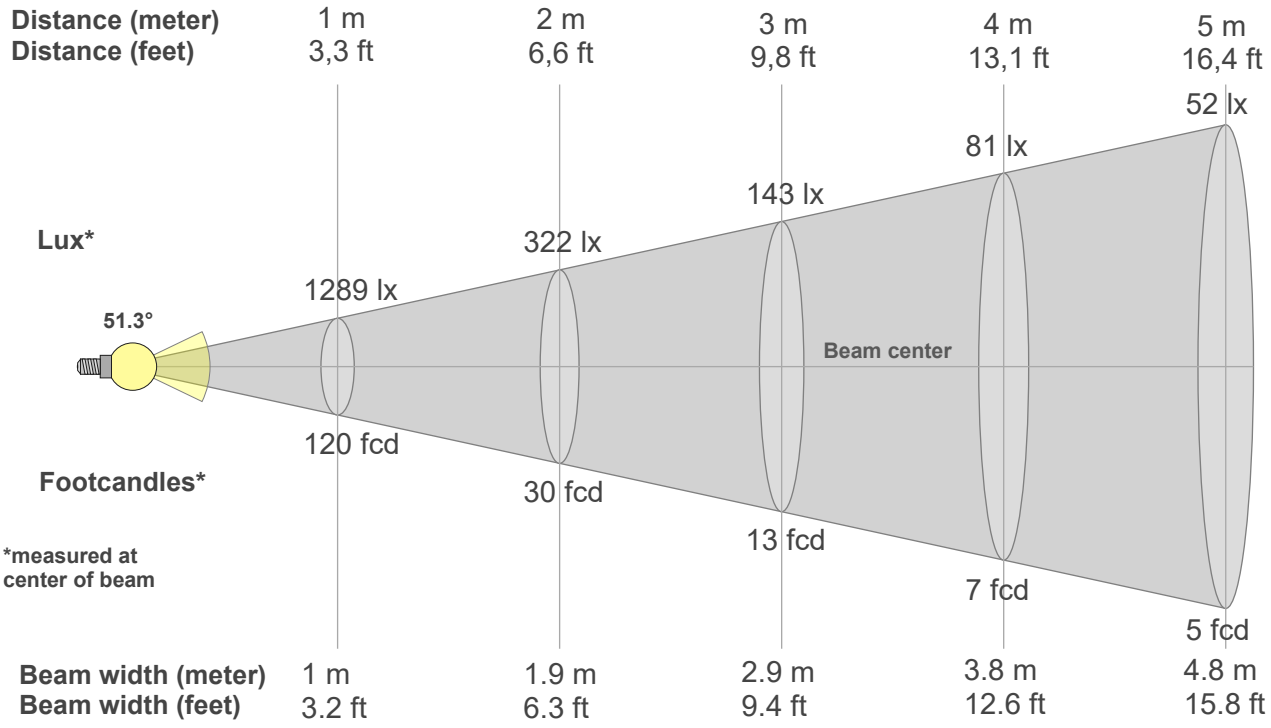


Color Evaluation Sample

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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
1289lx	322lx	143lx	81lx	52lx	36lx	26lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx
119.7fc	29.9fcd	13.3fcd	7.5fcd	4.8fcd	3.3fcd	2.4fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

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°
1289	1285	1267	1250	1214	1174	1126	1067	1007	935	861	786	709	632	561	490	422	356	294	243
100%	100%	98%	97%	94%	91%	87%	83%	78%	73%	67%	61%	55%	49%	44%	38%	33%	28%	23%	19%

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°
1289	1285	1267	1250	1214	1174	1126	1067	1007	935	861	786	709	632	561	490	422	356	294	243
100%	100%	98%	97%	94%	91%	87%	83%	78%	73%	67%	61%	55%	49%	44%	38%	33%	28%	23%	19%

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°
1289	1285	1267	1250	1214	1174	1126	1067	1007	935	861	786	709	632	561	490	422	356	294	243
100%	100%	98%	97%	94%	91%	87%	83%	78%	73%	67%	61%	55%	49%	44%	38%	33%	28%	23%	19%

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°
1289	1285	1267	1250	1214	1174	1126	1067	1007	935	861	786	709	632	561	490	422	356	294	243
100%	100%	98%	97%	94%	91%	87%	83%	78%	73%	67%	61%	55%	49%	44%	38%	33%	28%	23%	19%

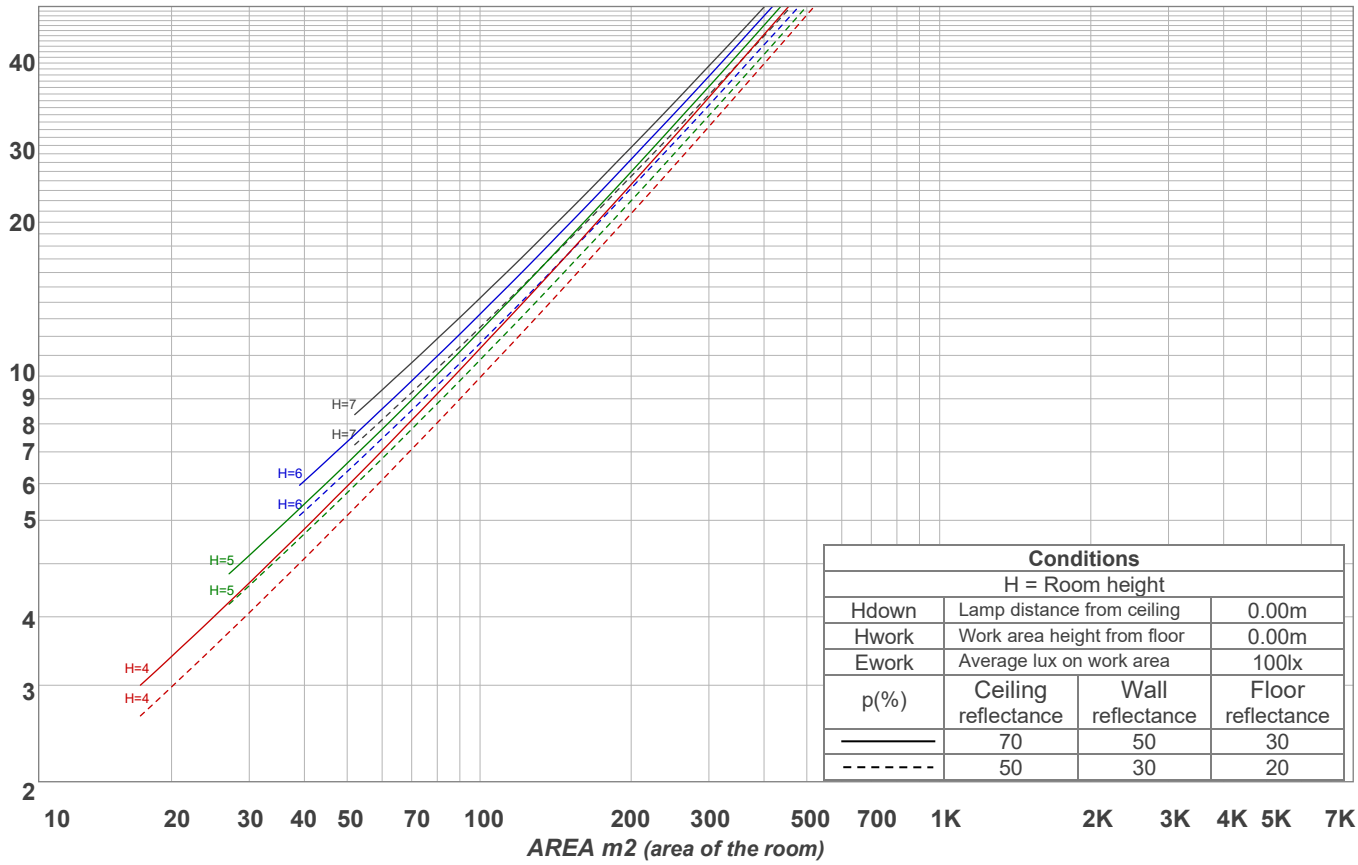
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51.3°	87.4°	107.2°	97.4%	91.8%

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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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	78	75	73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63
7	82	72	66	62	81	72	66	62	70	65	61	69	65	61	68	64	61	59
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	64	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	51	49

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
118 lm	287 lm	305 lm	203 lm	86.4 lm	26.2 lm	14.1 lm	9.15 lm	4.44 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

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