

Light efficiency:

37 Lumen/Watt

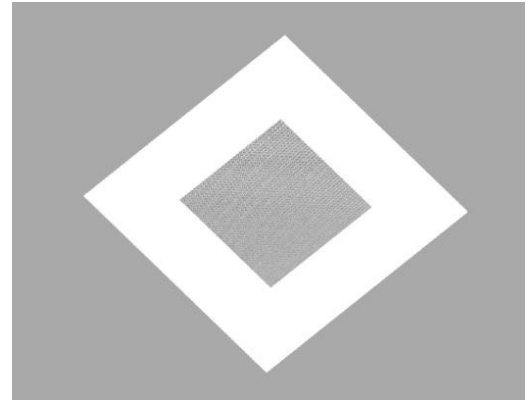
Output: 610 lm

Light quality:

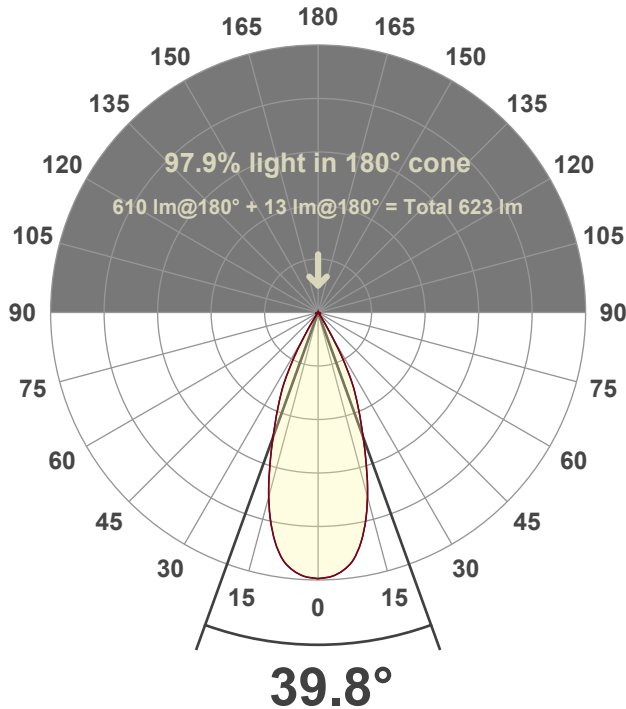
CRI: 96.1

Peak: 1301 cd

Power: 16.4 W



Beam angle



Test number:

CR4D-SA-FL-Z-T15-TW1840-50

Luminaire Model:

Core 4" Square Flat T15-1840-50°

Date and time:

8/26/2025 4:20:34 PM

LUM: 610

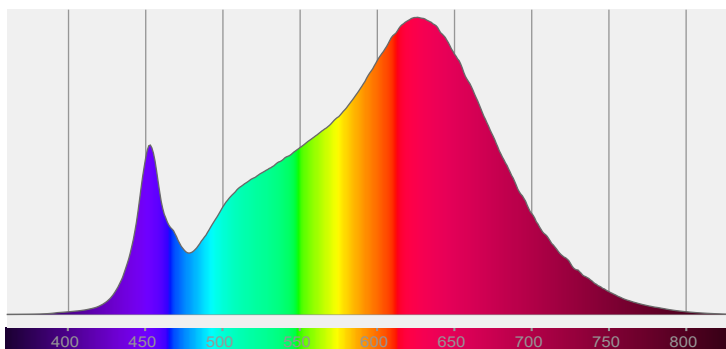
Primary Optic = 39.8°

2886 K

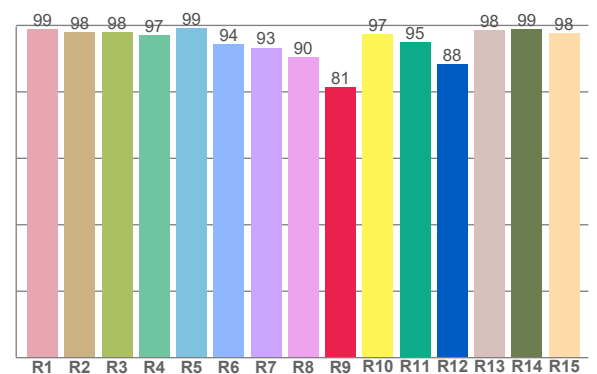
Measured at Mid-Point of Tuneable White CCT Range

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

Spectra



CRI: 96.1 (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 deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.1	81.3	93.6	103.0	92.7	0.437	0.391	0.257	0.344	-0.0055

R_f 93.6

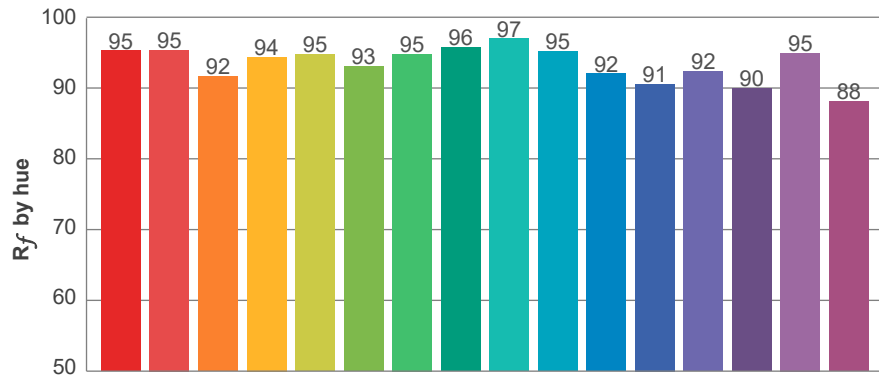
Fidelity index R_f

R_g 103.0

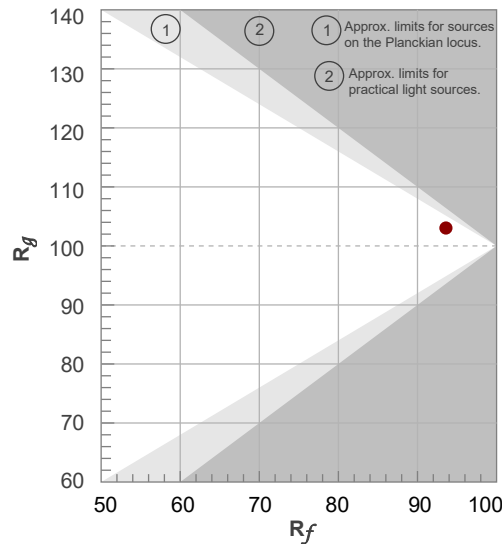
Gammut index R_g

TM30: 93.6

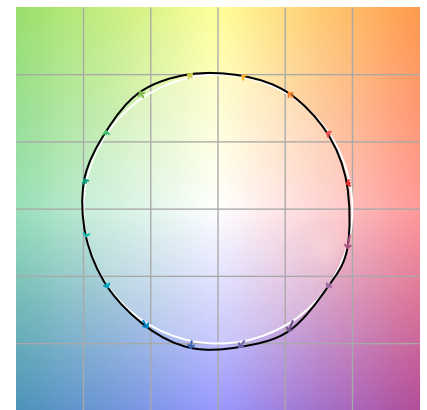
TM-30Color



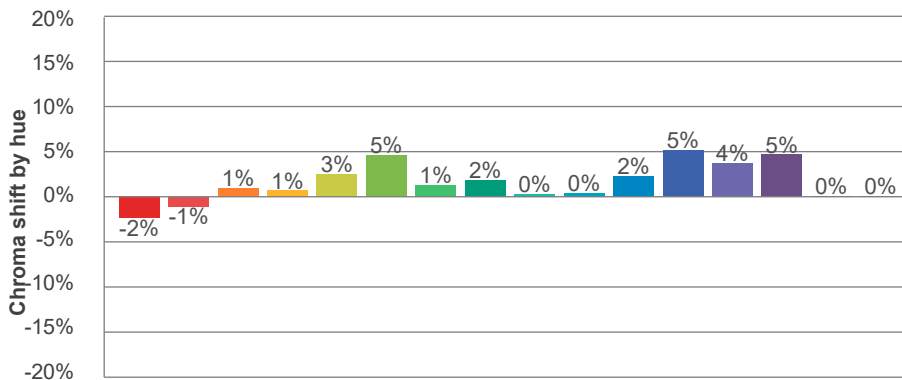
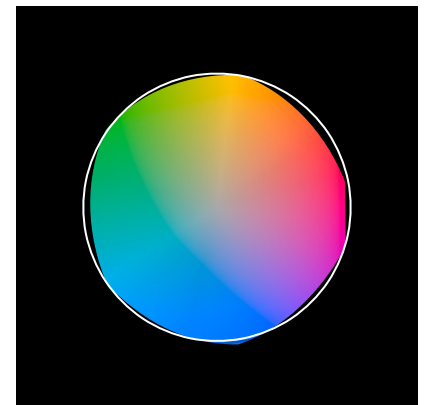
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	95	-1%	2%
3	92	1%	4%
4	94	1%	2%
5	95	3%	2%
6	93	5%	0%
7	95	1%	-2%
8	96	2%	-2%
9	97	0%	1%
10	95	0%	3%
11	92	2%	5%
12	91	5%	0%
13	92	4%	-4%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-10%



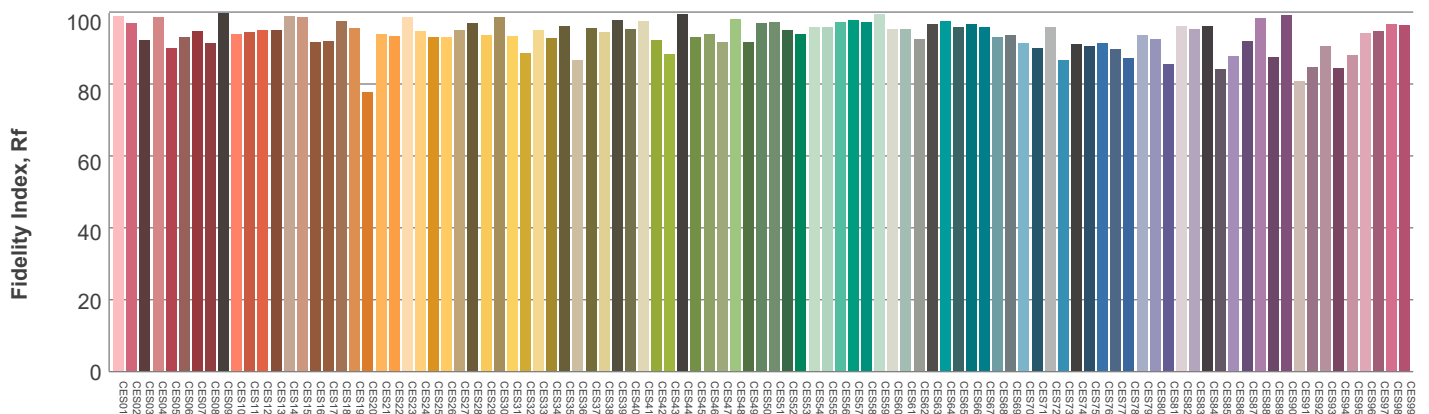
Color vector graphics



Color distortion

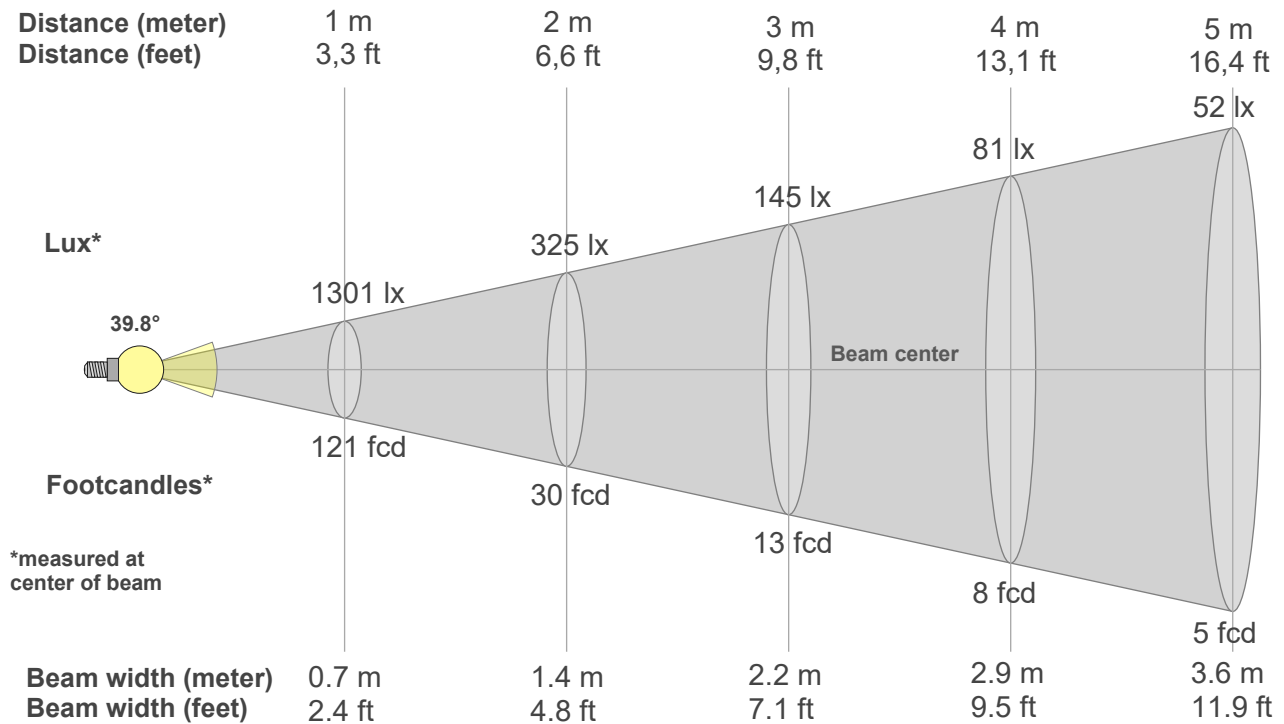


Hue bin



Color Evaluation Sample

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
1301lx	325lx	145lx	81lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
120.8fcd	30.2fcd	13.4fcd	7.6fcd	4.8fcd	3.4fcd	2.5fcd	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°
1301	1296	1283	1260	1224	1162	1081	985	876	755	643	546	457	369	259	147	65	19	4	3
100%	100%	99%	97%	94%	89%	83%	76%	67%	58%	49%	42%	35%	28%	20%	11%	5%	1%	0%	0%

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°
1301	1296	1283	1260	1224	1162	1081	985	876	755	643	546	457	369	259	147	65	19	4	3
100%	100%	99%	97%	94%	89%	83%	76%	67%	58%	49%	42%	35%	28%	20%	11%	5%	1%	0%	0%

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°
1301	1296	1283	1260	1224	1162	1081	985	876	755	643	546	457	369	259	147	65	19	4	3
100%	100%	99%	97%	94%	89%	83%	76%	67%	58%	49%	42%	35%	28%	20%	11%	5%	1%	0%	0%

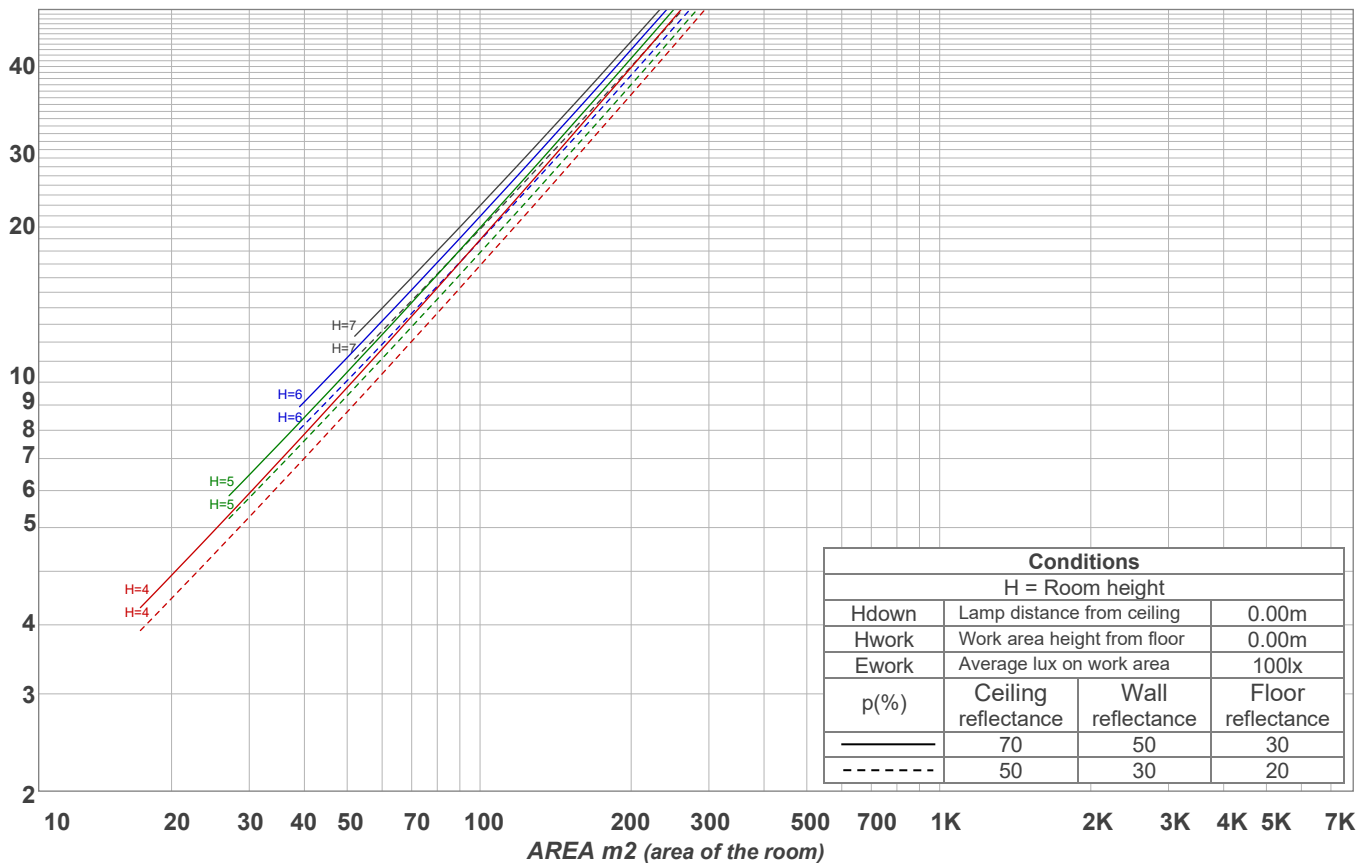
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1301	1296	1283	1260	1224	1162	1081	985	876	755	643	546	457	369	259	147	65	19	4	3
100%	100%	99%	97%	94%	89%	83%	76%	67%	58%	49%	42%	35%	28%	20%	11%	5%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.8°	60.6°	66.1°	95.1%	93.5%

LAMPS (number of lamps)
50

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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67
9	83	75	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64
10	80	72	67	63	79	71	67	63	71	66	63	70	66	63	69	66	63	62

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
118 lm	253 lm	181 lm	16.8 lm	3.80 lm	7.57 lm	11.6 lm	11.5 lm	6.68 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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