

Light efficiency:

60 Lumen/Watt

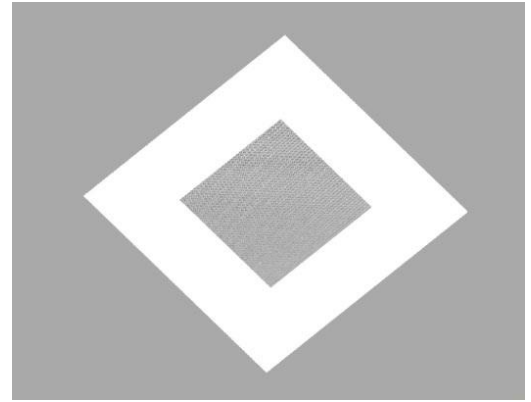
Output: 497 lm

Light quality:

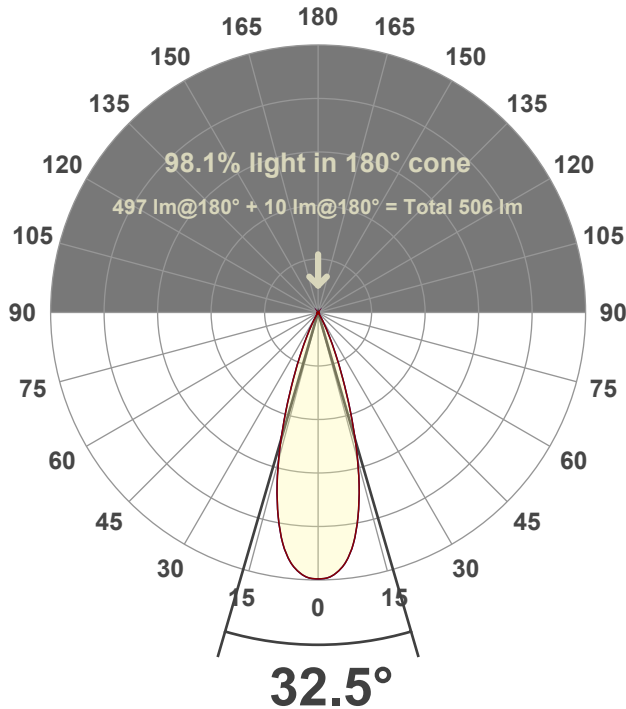
CRI: 96.3

Peak: 1621 cd

Power: 8.2 W



Beam angle



Test number:

CR4D-SA-FL-Z-T9-TW1840-36

Luminaire Model:

Core 4" Square Flat T9-1840-36°

Date and time:

8/26/2025 1:31:35 PM

LUM: 497

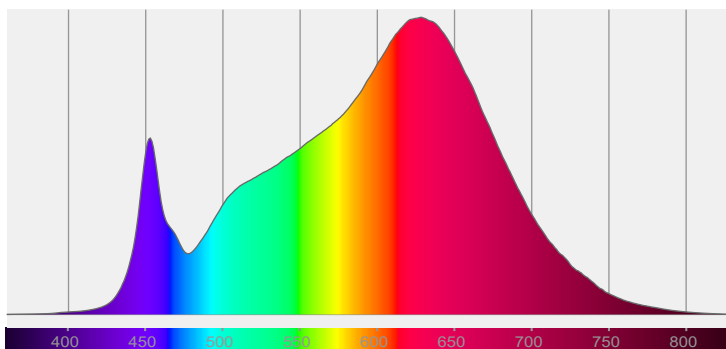
Primary Optic = 32.5°

2888 K

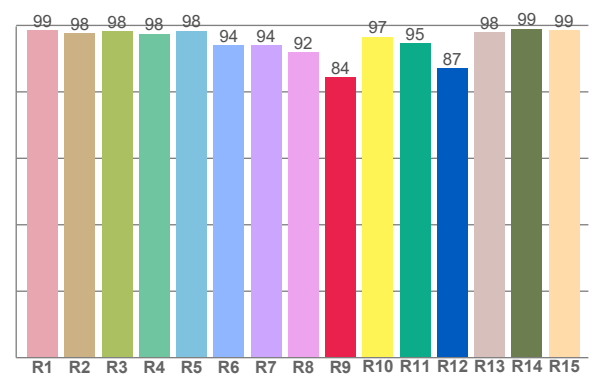
Measured at Mid-Point of Tuneable White CCT Range

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

Spectra



CRI: 96.3 (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
	96.3	84.4	93.9	102.8	93.4	0.438	0.392	0.256	0.344	-0.0051

R_f 93.9

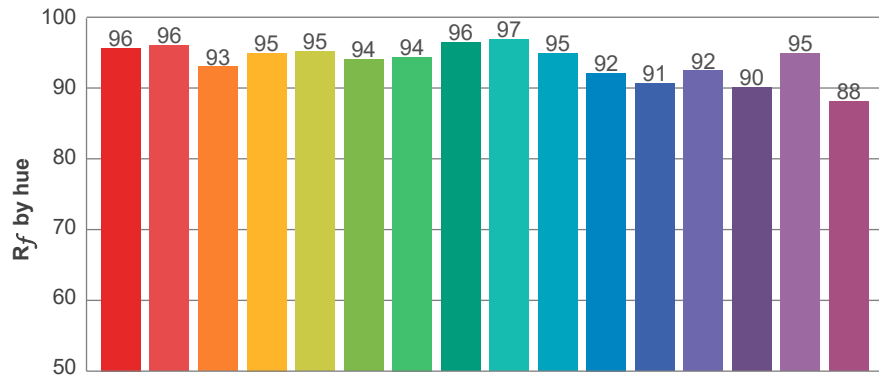
Fidelity index R_f

R_g 102.8

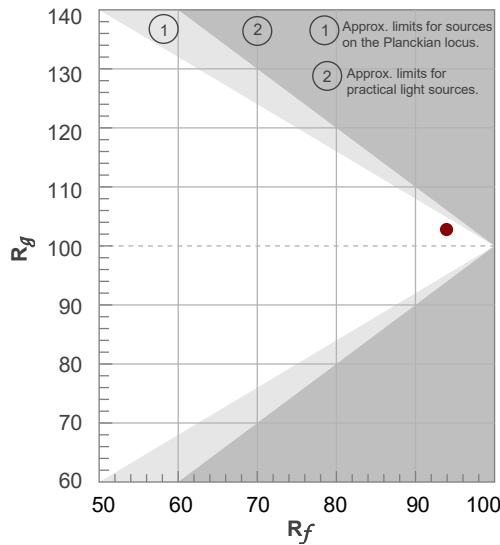
Gammut index R_g

TM30: 93.9

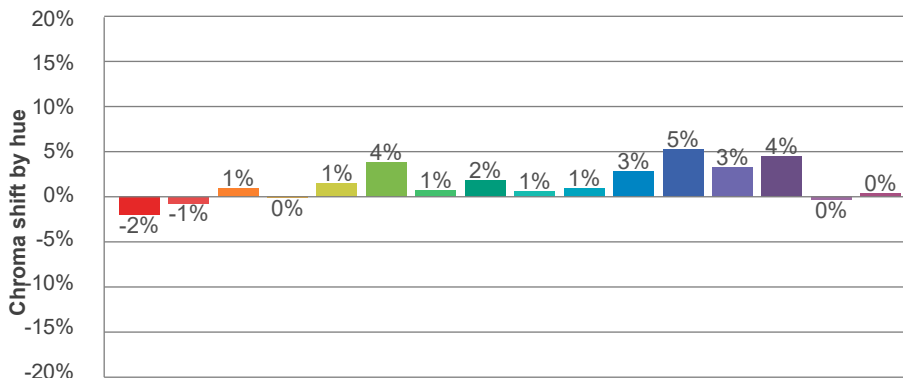
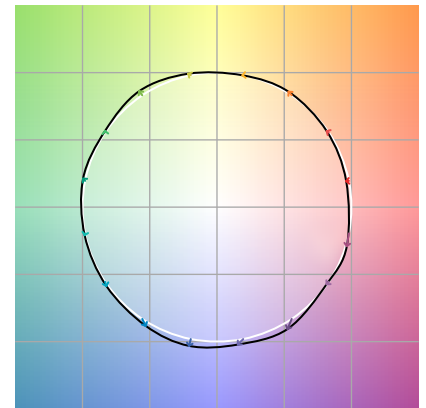
TM-30Color



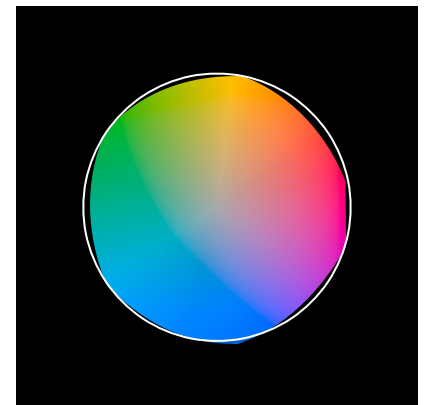
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	3%
4	95	0%	1%
5	95	1%	2%
6	94	4%	0%
7	94	1%	-1%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	4%	-7%
15	95	0%	-2%
16	88	0%	-10%



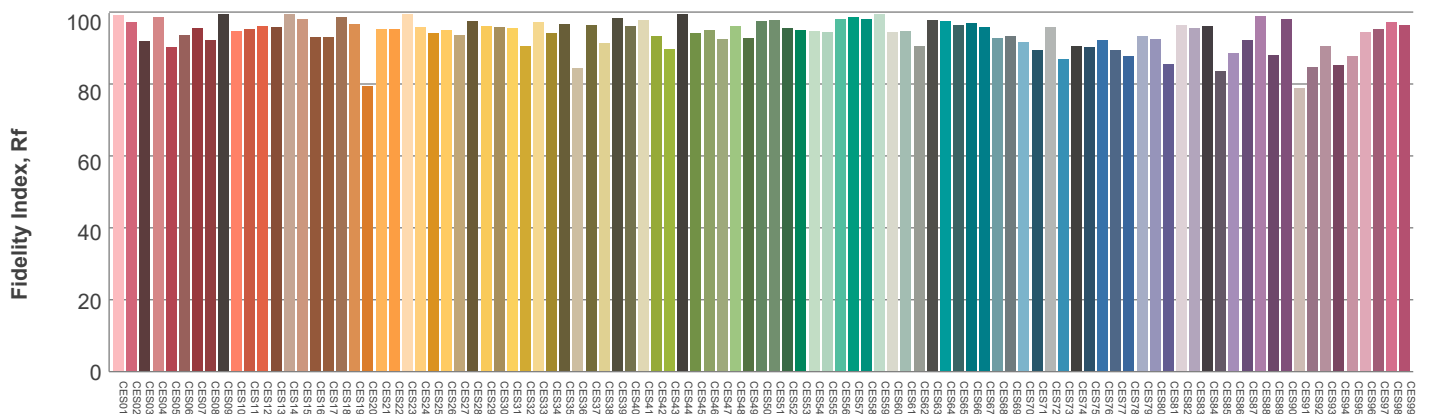
Color vector graphics



Color distortion

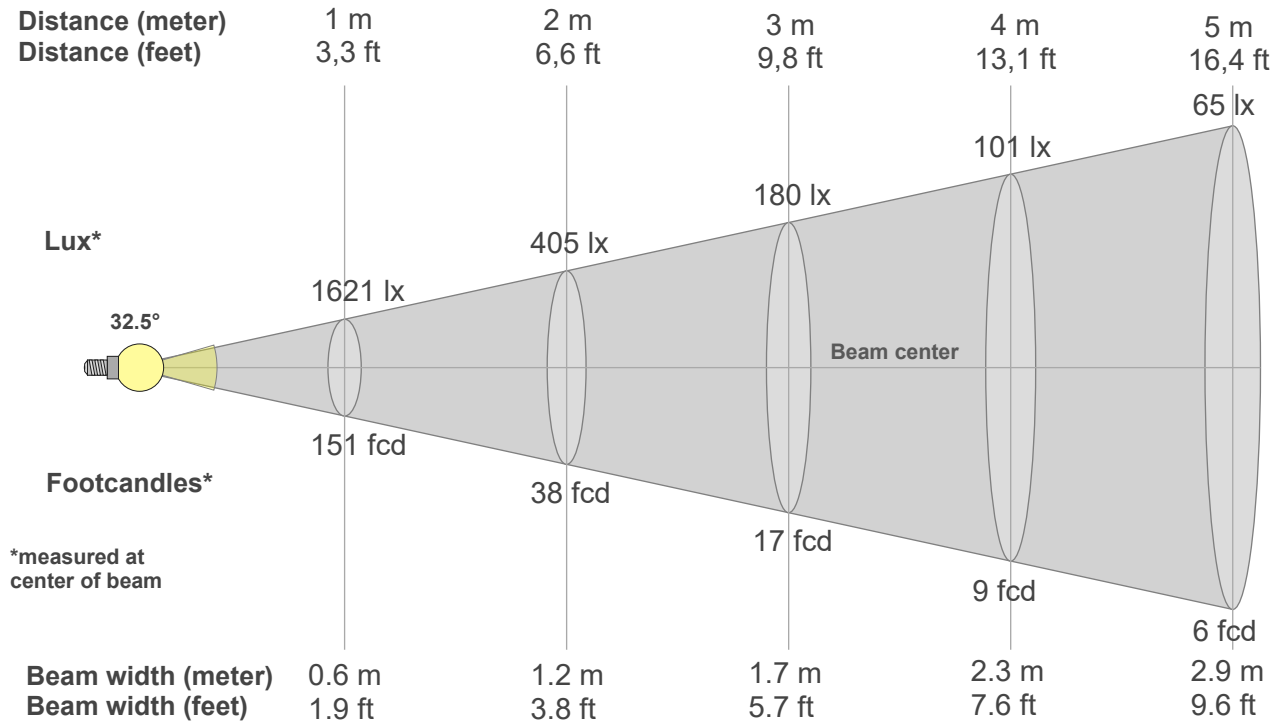


Hue bin



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
1621lx	405lx	180lx	101lx	65lx	45lx	33lx	25lx	20lx	16lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx
150.6fcd	37.6fcd	16.7fcd	9.4fcd	6fcd	4.2fcd	3.1fcd	2.4fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

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°
1621	1617	1591	1539	1456	1338	1191	1022	834	642	469	327	216	132	72	32	11	4	2	2
100%	100%	98%	95%	90%	83%	74%	63%	51%	40%	29%	20%	13%	8%	4%	2%	1%	0%	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°
1621	1617	1591	1539	1456	1338	1191	1022	834	642	469	327	216	132	72	32	11	4	2	2
100%	100%	98%	95%	90%	83%	74%	63%	51%	40%	29%	20%	13%	8%	4%	2%	1%	0%	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°
1621	1617	1591	1539	1456	1338	1191	1022	834	642	469	327	216	132	72	32	11	4	2	2
100%	100%	98%	95%	90%	83%	74%	63%	51%	40%	29%	20%	13%	8%	4%	2%	1%	0%	0%	0%

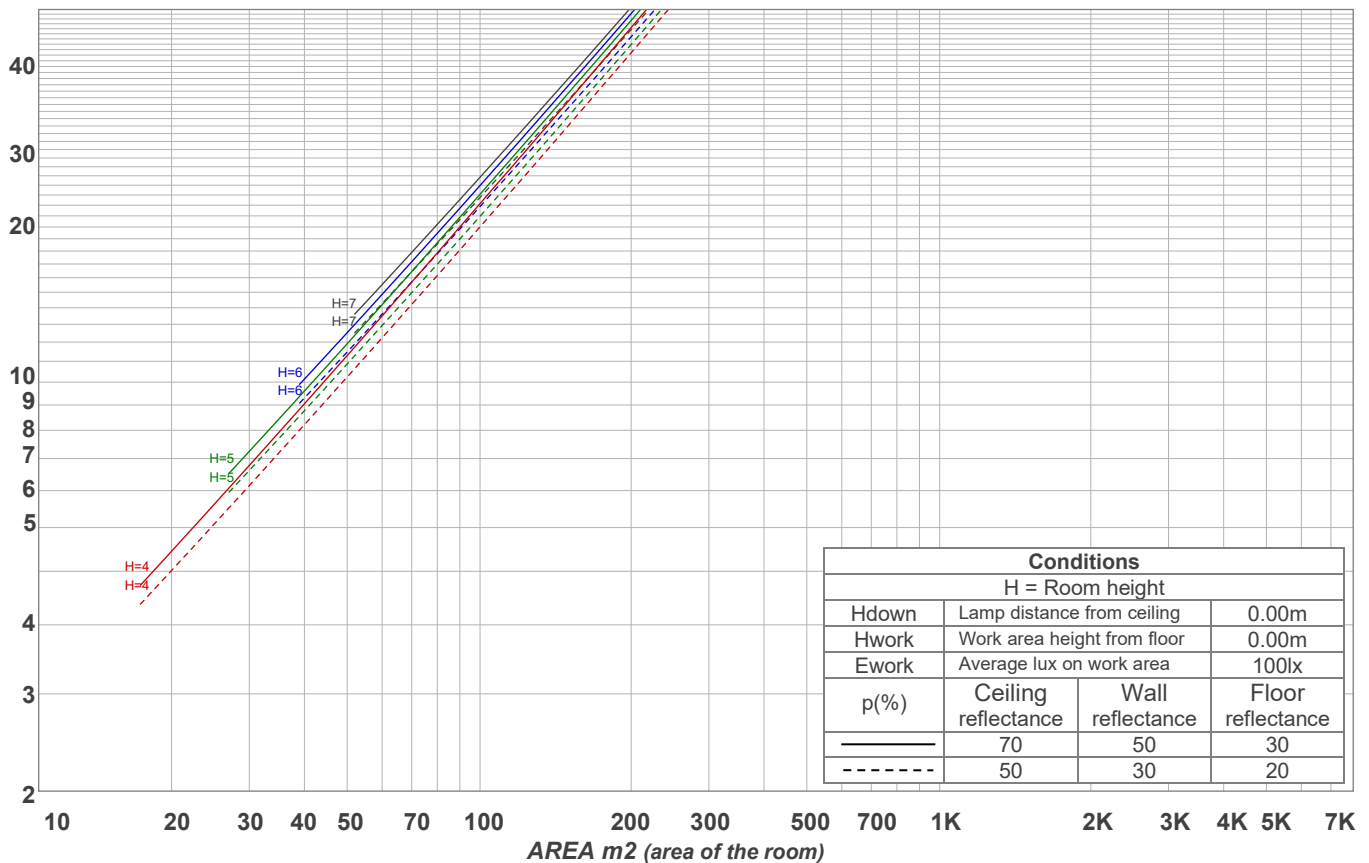
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1621	1617	1591	1539	1456	1338	1191	1022	834	642	469	327	216	132	72	32	11	4	2	2
100%	100%	98%	95%	90%	83%	74%	63%	51%	40%	29%	20%	13%	8%	4%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.5°	50.2°	59°	97.2%	96.3%

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	100	93	89	86	98	92	88	85	91	87	84	89	86	84	88	85	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79
7	94	87	82	79	93	86	82	79	85	81	79	84	81	78	83	80	78	77
8	91	84	80	77	90	83	79	76	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
143 lm	246 lm	84.2 lm	4.12 lm	2.00 lm	3.54 lm	5.13 lm	5.07 lm	3.66 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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