

Light efficiency:

55 Lumen/Watt

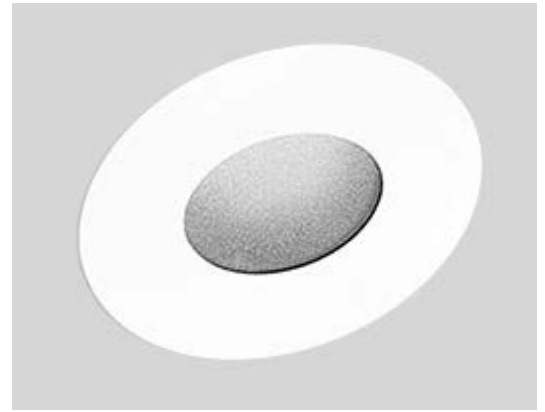
Output: 544 lm

Light quality:

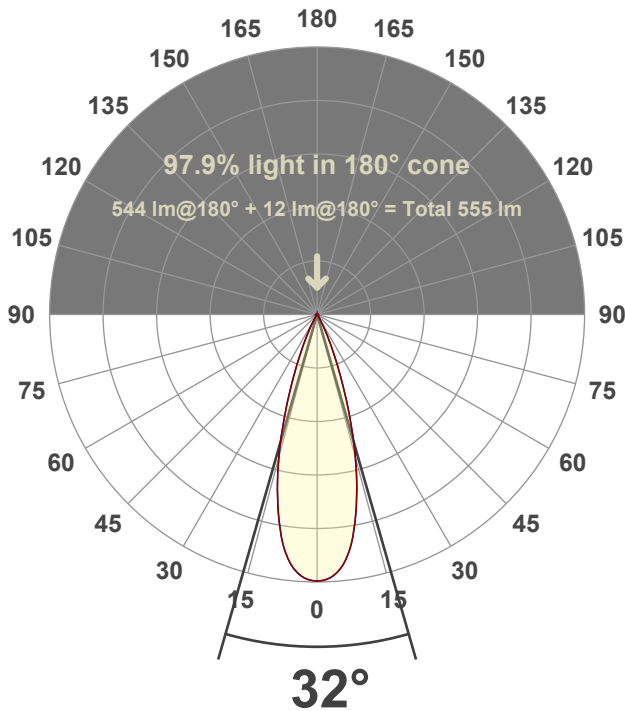
CRI: 96.2

Peak: 1832 cd

Power: 9.8 W



Beam angle



Test number:

CR4D-RA-FL-Z-T9-TW1840-36

Luminaire Model:

CORE 4" ROUND FLAT T9 1840 36°

Date and time:

8/21/2025 4:12:32 PM

LUM: 544

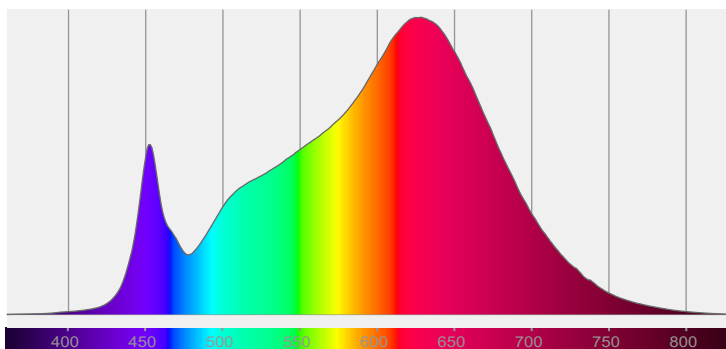
Primary Optic = 32°

2865 K

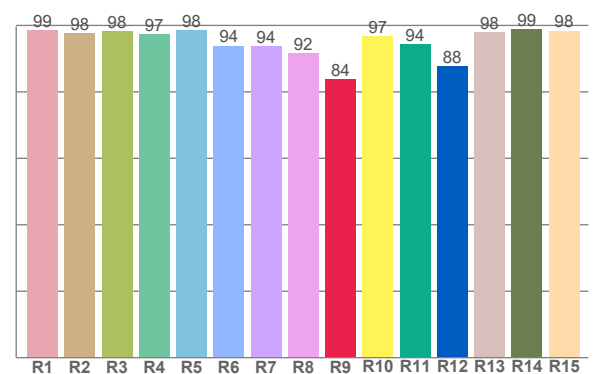
Measured at Mid-Point of Tuneable White CCT Range

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

Spectra



CRI: 96.2 (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
	96.2	83.7	93.8	103.1	93.1	0.439	0.391	0.257	0.344	-0.0053

R_f 93.8

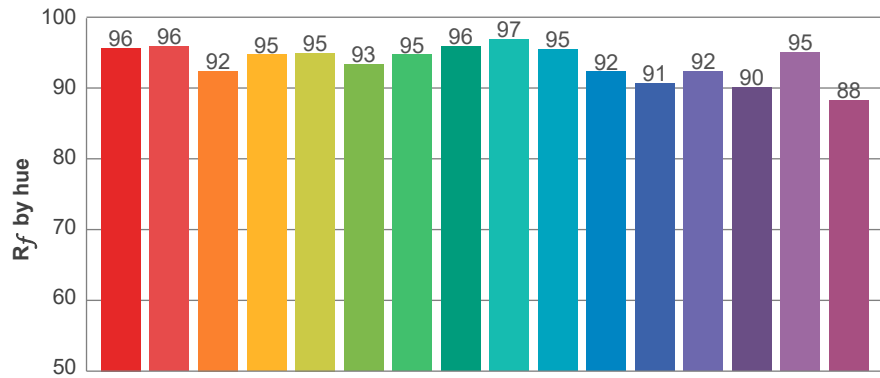
Fidelity index R_f

R_g 103.1

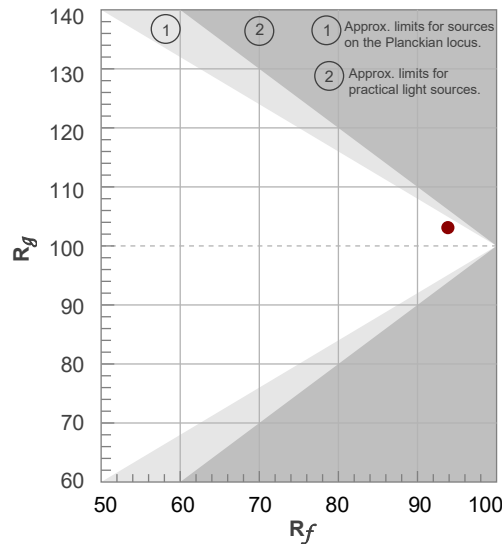
Gammut index R_g

TM30: 93.8

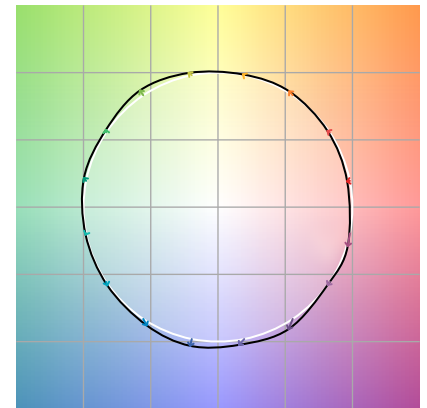
TM-30Color



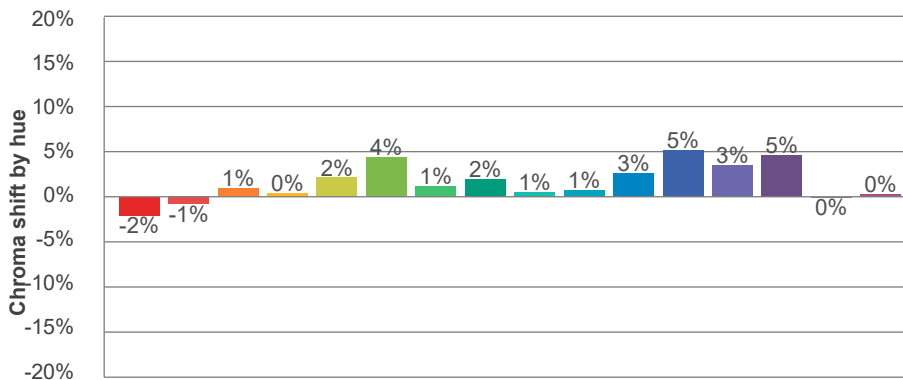
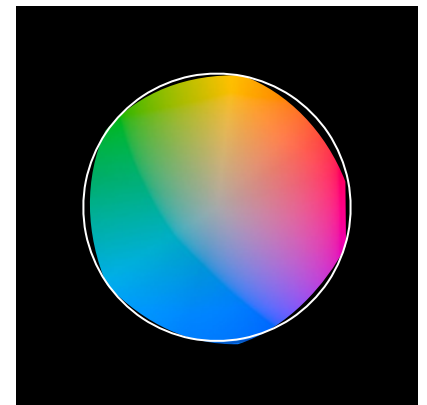
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	95	0%	1%
5	95	2%	2%
6	93	4%	0%
7	95	1%	-1%
8	96	2%	-2%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-9%



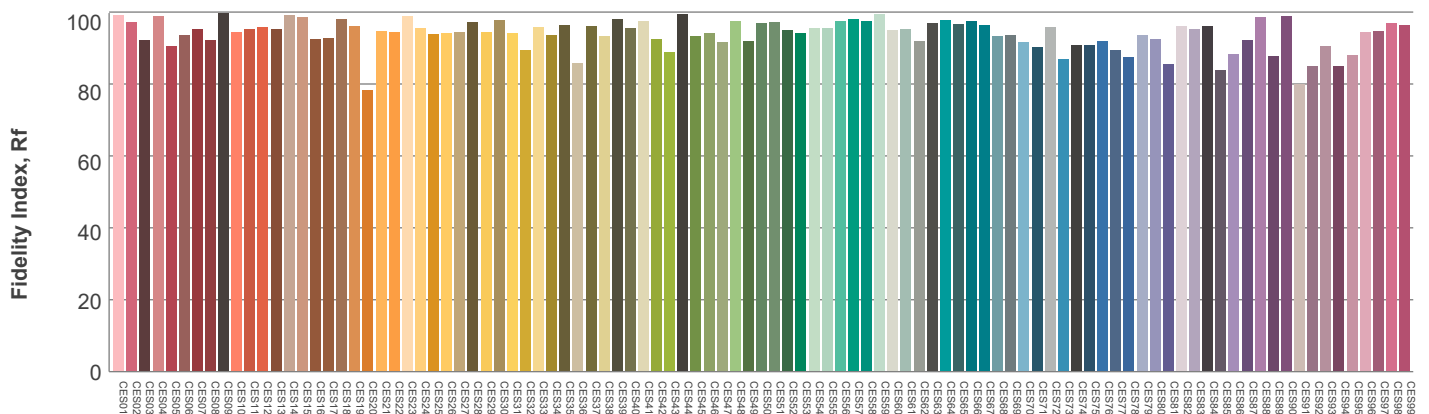
Color vector graphics



Color distortion

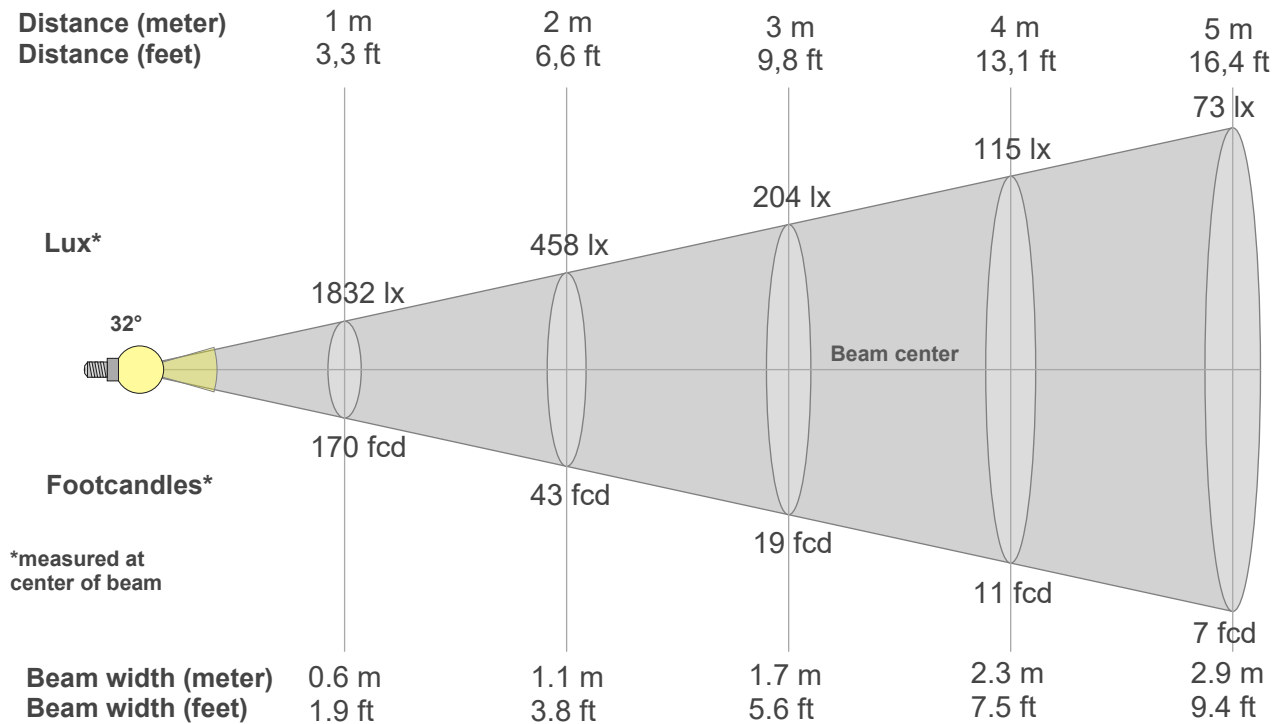


Hue bin



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
1832lx	458lx	204lx	115lx	73lx	51lx	37lx	29lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
170.2fcd	42.6fcd	18.9fcd	10.6fcd	6.8fcd	4.7fcd	3.5fcd	2.7fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	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°
1832	1823	1791	1729	1623	1477	1305	1117	916	708	522	367	244	151	83	41	18	7	3	2
100%	100%	98%	94%	89%	81%	71%	61%	50%	39%	28%	20%	13%	8%	5%	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°
1832	1823	1791	1729	1623	1477	1305	1117	916	708	522	367	244	151	83	41	18	7	3	2
100%	100%	98%	94%	89%	81%	71%	61%	50%	39%	28%	20%	13%	8%	5%	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°
1832	1823	1791	1729	1623	1477	1305	1117	916	708	522	367	244	151	83	41	18	7	3	2
100%	100%	98%	94%	89%	81%	71%	61%	50%	39%	28%	20%	13%	8%	5%	2%	1%	0%	0%	0%

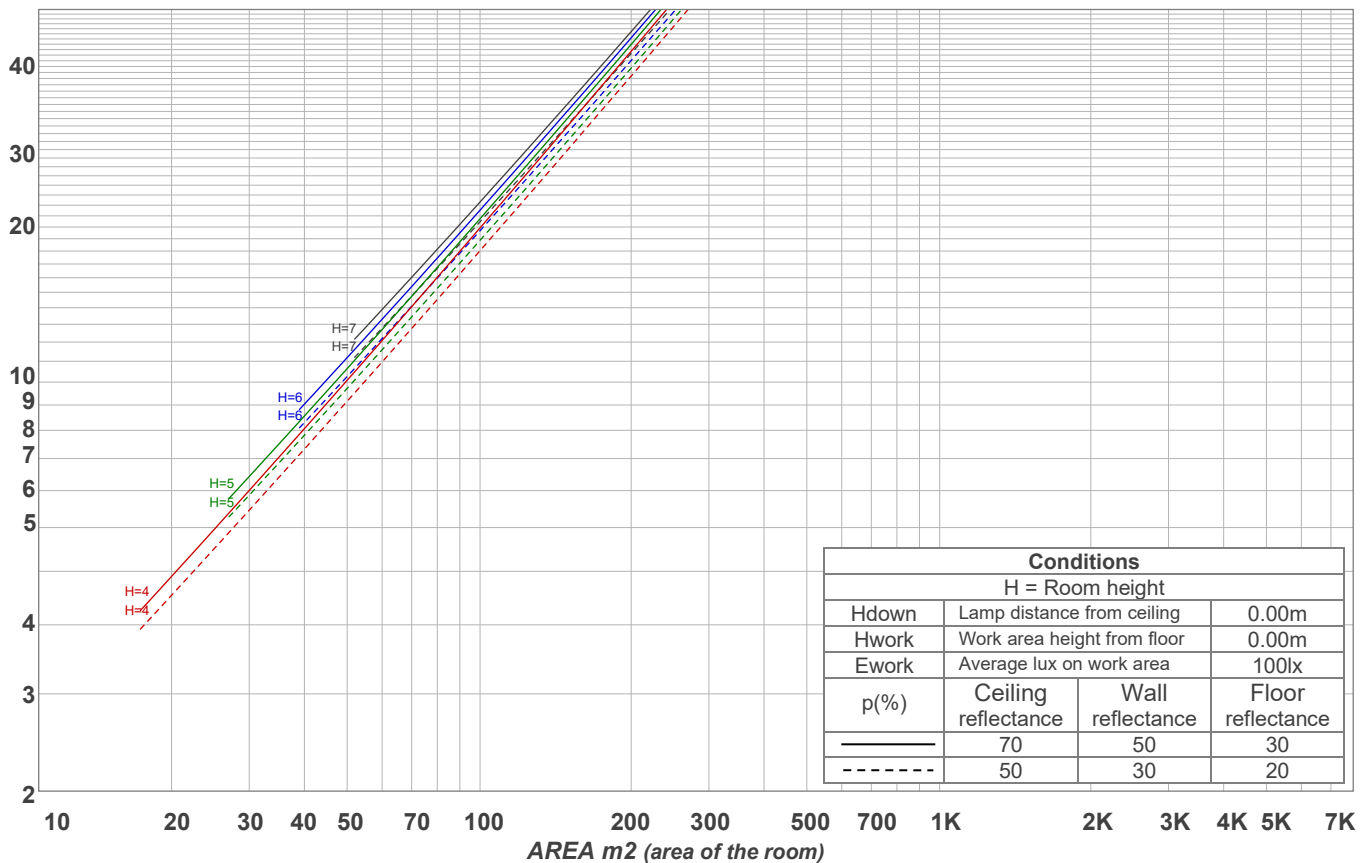
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1832	1823	1791	1729	1623	1477	1305	1117	916	708	522	367	244	151	83	41	18	7	3	2
100%	100%	98%	94%	89%	81%	71%	61%	50%	39%	28%	20%	13%	8%	5%	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°	50.4°	59.6°	98.4%	97.9%

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	83	88	84	82	86	84	82	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	78	83	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	74	73
10	87	80	76	73	86	79	76	73	79	75	73	78	75	73	78	75	72	71

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
160 lm	271 lm	95.4 lm	5.40 lm	1.68 lm	1.97 lm	2.07 lm	2.91 lm	3.60 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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