

Light efficiency:

58 Lumen/Watt

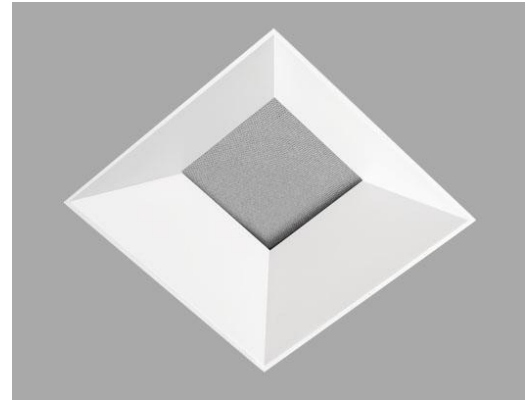
Output: 499 lm

Light quality:

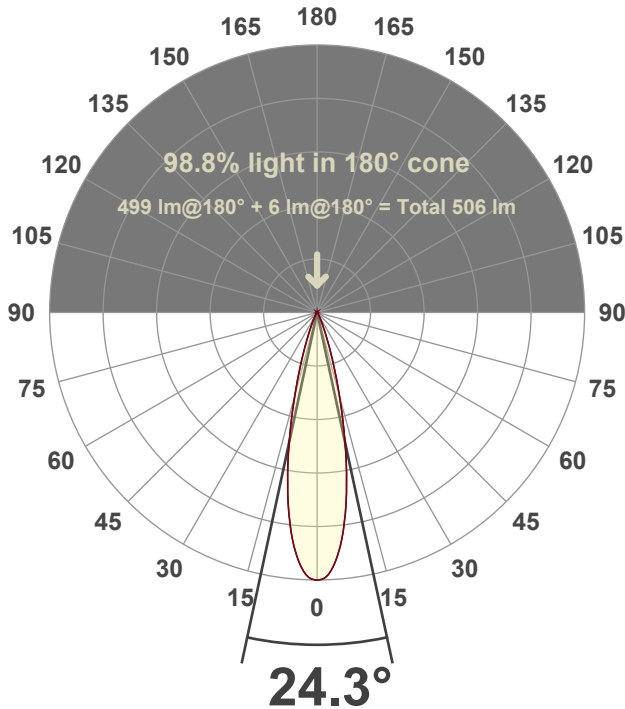
CRI: 96.1

Peak: 2556 cd

Power: 8.6 W



Beam angle



Test number:

CR4D-SA-DR-Z-T9-TW1840-24

Luminaire Model:

Core 4" Square Deep Regress T9-1840-24°

Date and time:

7/13/2026 9:19:07 AM

LUM: 499

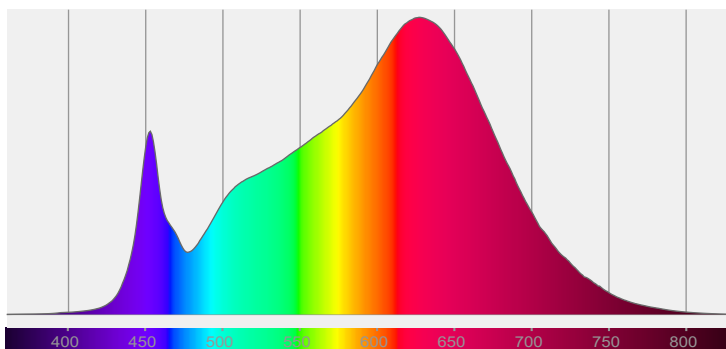
Primary Optic = 24.3°

2917 K

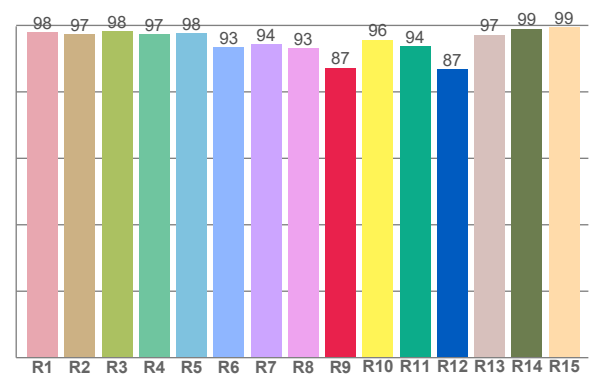
Measured at Mid-Point of Tuneable White CCT Range

*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	87.2	94.1	103.0	93.8	0.435	0.390	0.255	0.344	-0.0053

R_f 94.1

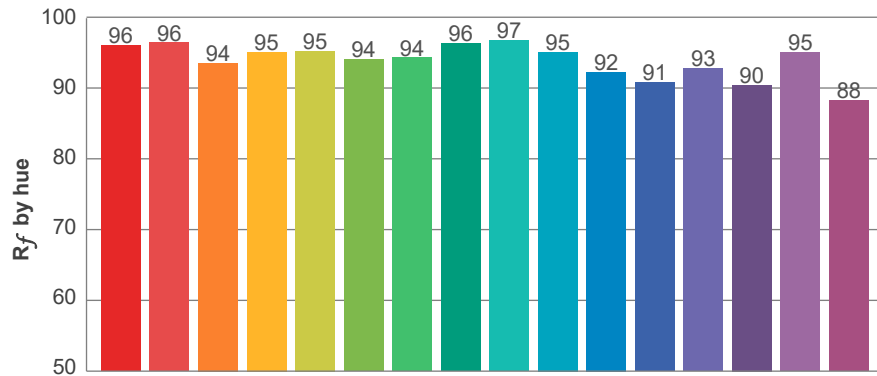
Fidelity index R_f

R_g 103.0

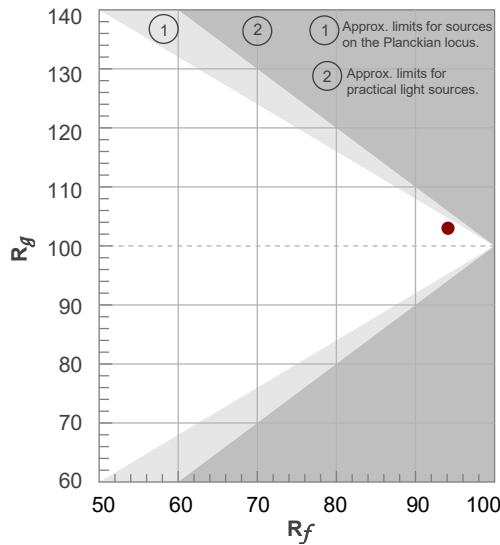
Gammut index R_g

TM30: 94.1

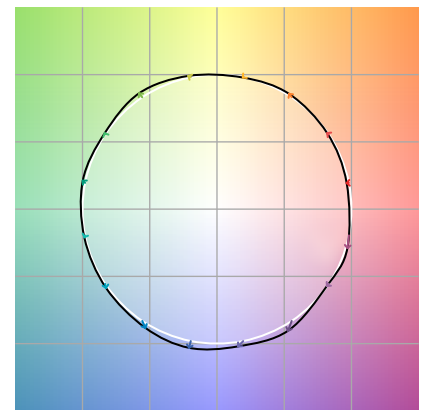
TM-30Color



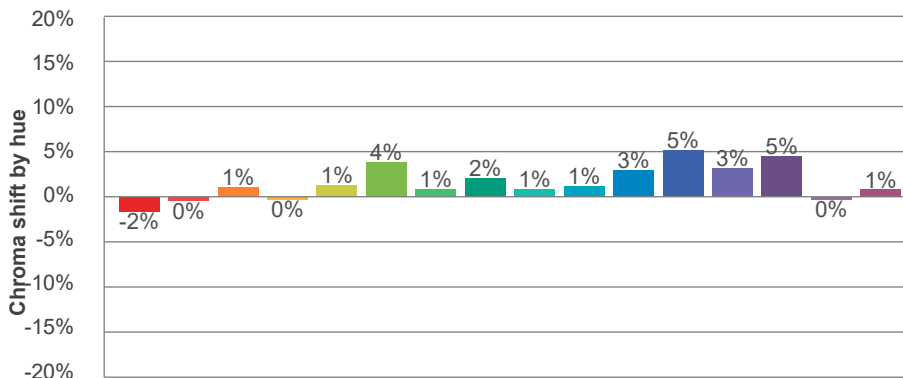
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	0%	1%
3	94	1%	3%
4	95	0%	0%
5	95	1%	2%
6	94	4%	0%
7	94	1%	0%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	93	3%	-4%
14	90	5%	-6%
15	95	0%	-2%
16	88	1%	-9%



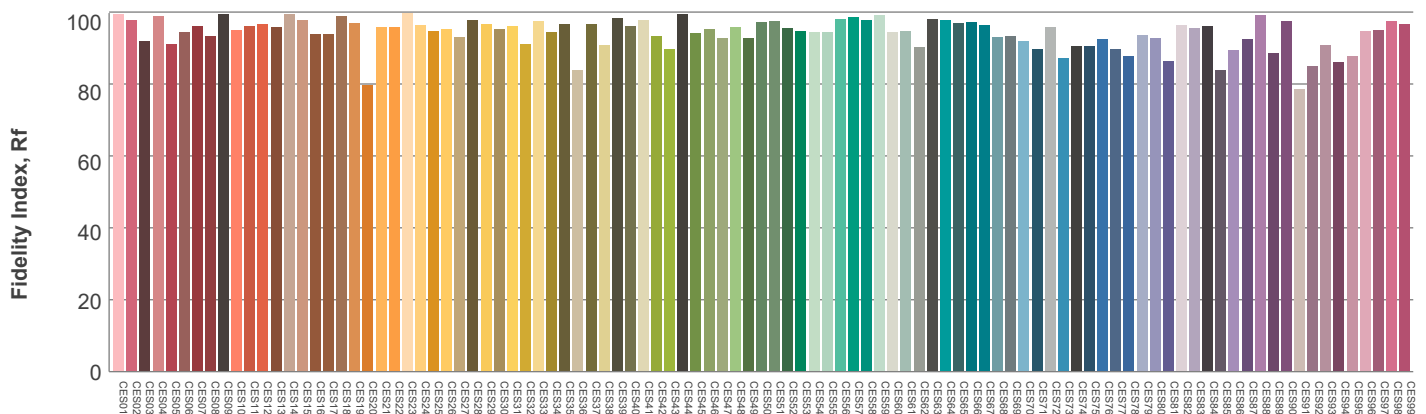
Color vector graphics



Color distortion

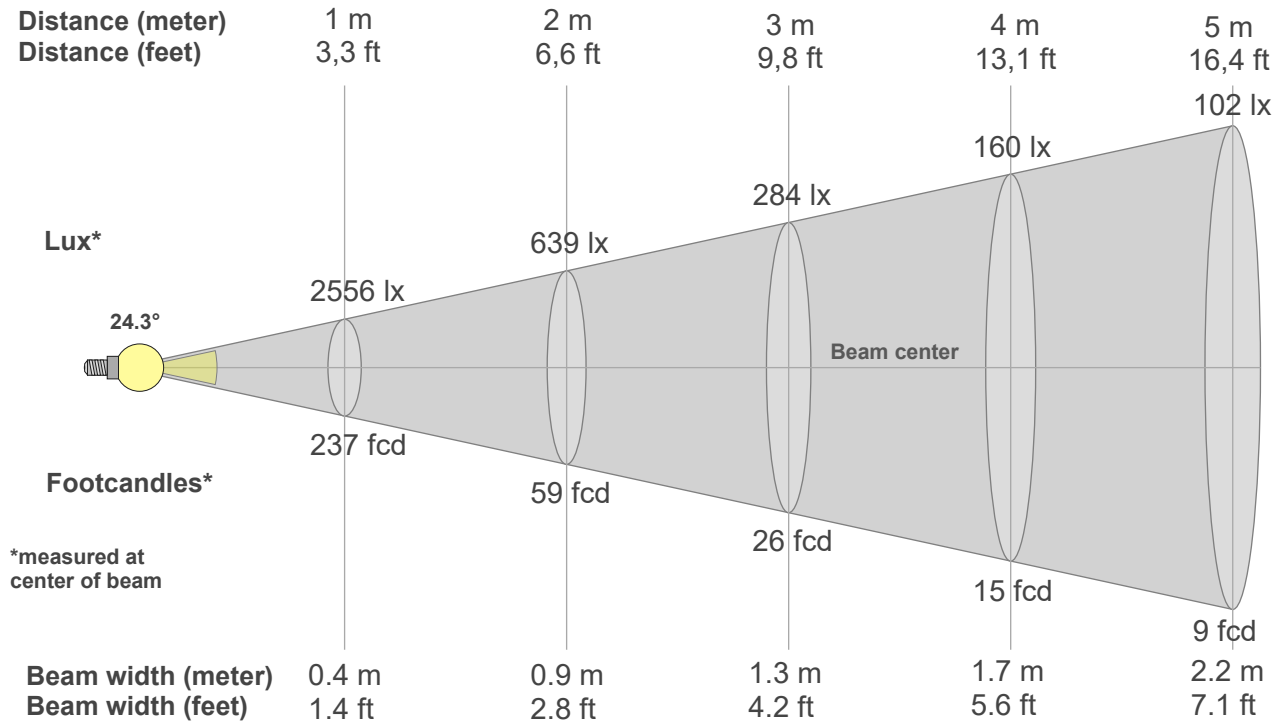


Hue bin



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
2556lx	639lx	284lx	160lx	102lx	71lx	52lx	40lx	32lx	26lx	21lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
237.4fcd	59.4fcd	26.4fcd	14.8fcd	9.5fcd	6.6fcd	4.8fcd	3.7fcd	2.9fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd	0.6fcd

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°
2556	2529	2415	2213	1943	1630	1301	982	700	474	312	200	128	85	58	41	29	19	12	8
100%	99%	94%	87%	76%	64%	51%	38%	27%	19%	12%	8%	5%	3%	2%	2%	1%	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°
2556	2529	2415	2213	1943	1630	1301	982	700	474	312	200	128	85	58	41	29	19	12	8
100%	99%	94%	87%	76%	64%	51%	38%	27%	19%	12%	8%	5%	3%	2%	2%	1%	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°
2556	2529	2415	2213	1943	1630	1301	982	700	474	312	200	128	85	58	41	29	19	12	8
100%	99%	94%	87%	76%	64%	51%	38%	27%	19%	12%	8%	5%	3%	2%	2%	1%	1%	0%	0%

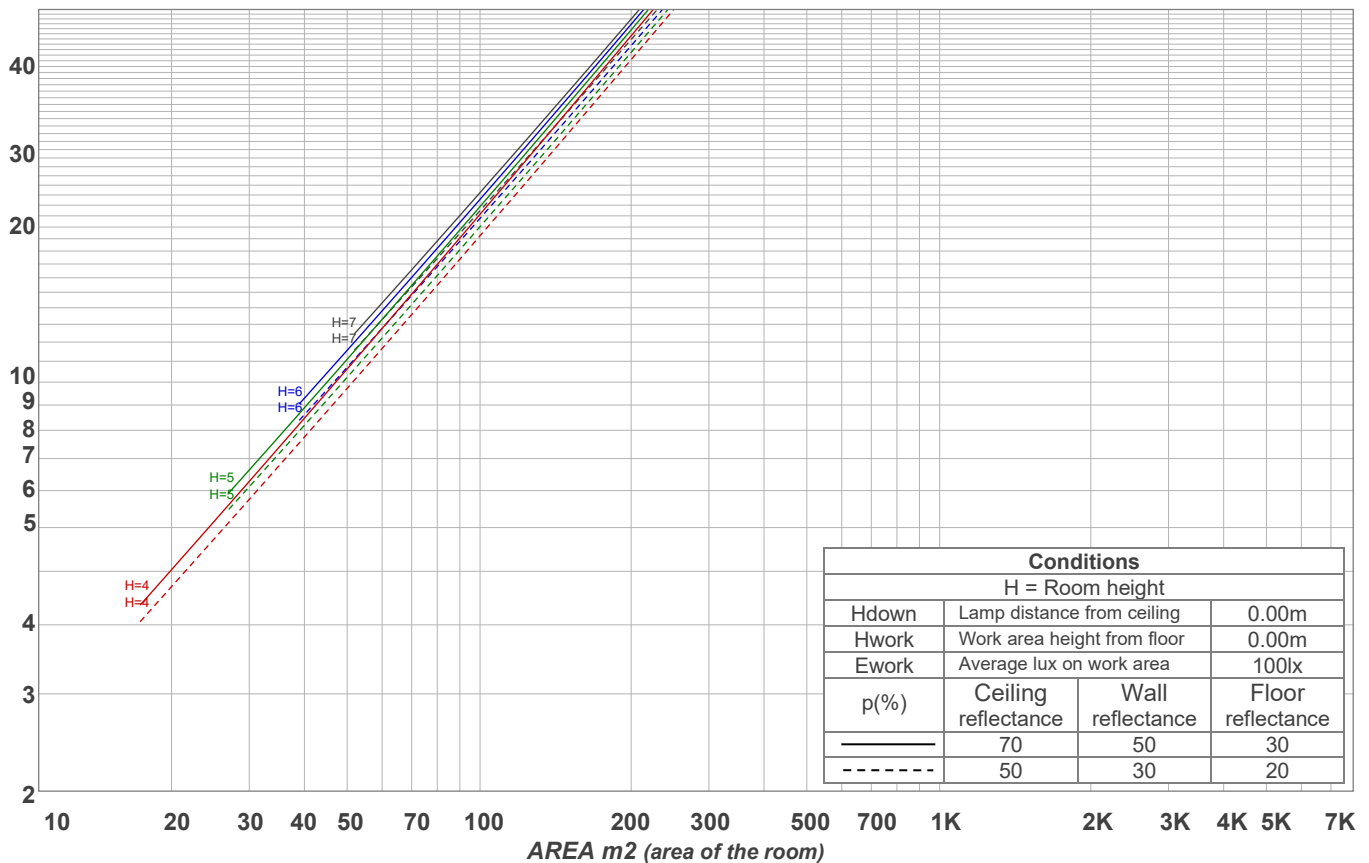
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2556	2529	2415	2213	1943	1630	1301	982	700	474	312	200	128	85	58	41	29	19	12	8
100%	99%	94%	87%	76%	64%	51%	38%	27%	19%	12%	8%	5%	3%	2%	2%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.3°	41.8°	54.8°	99.3%	99.1%

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	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94
3	108	104	100	98	106	102	99	97	100	97	95	98	96	94	96	94	93	91
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84
7	97	91	87	84	96	91	87	84	89	86	84	88	86	83	88	85	83	82
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80
9	93	86	83	80	92	86	82	80	85	82	80	84	82	79	84	81	79	78
10	90	84	80	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
200 lm	228 lm	54.6 lm	10.9 lm	1.44 lm	0.951 lm	1.48 lm	0.687 lm	1.18 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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