

Light efficiency:

68 Lumen/Watt

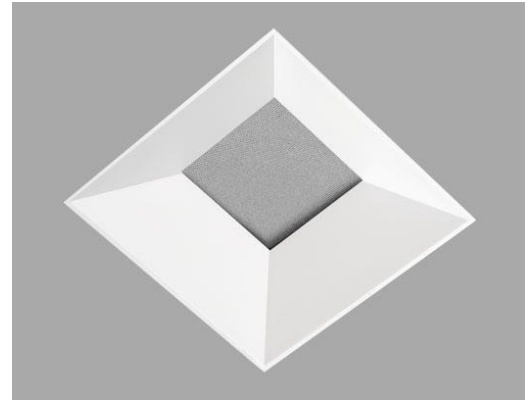
Output: 585 lm

Light quality:

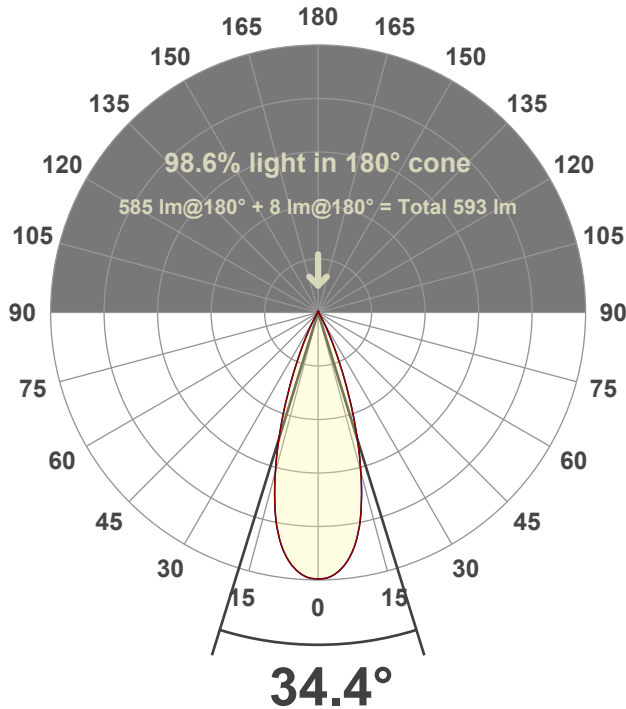
CRI: 96.3

Peak: 1717 cd

Power: 8.7 W



Beam angle



Test number:

CR4D-SA-DR-Z-T9-TW1840-36

Luminaire Model:

Core 4" Square Deep Regress T9-1840-36°

Date and time:

8/19/2025 9:05:40 AM

LUM: 585

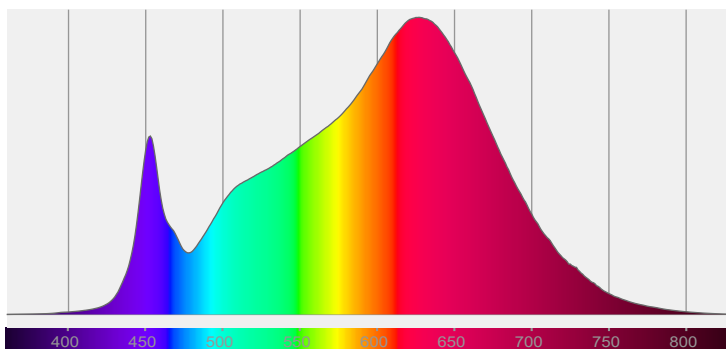
Primary Optic = 34.4°

2911 K

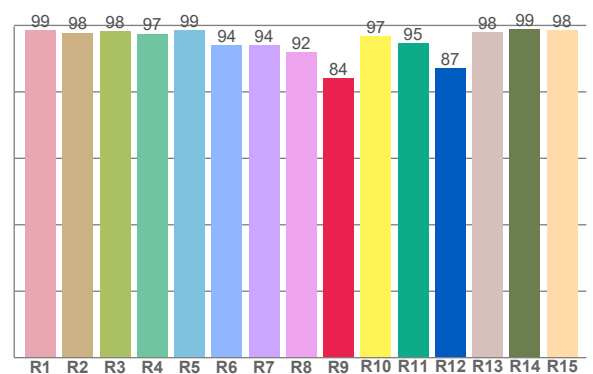
Measured at Mid-Point of Tuneable White CCT Range

*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	84.2	93.9	102.7	93.4	0.436	0.391	0.256	0.344	-0.0050

R_f 93.9

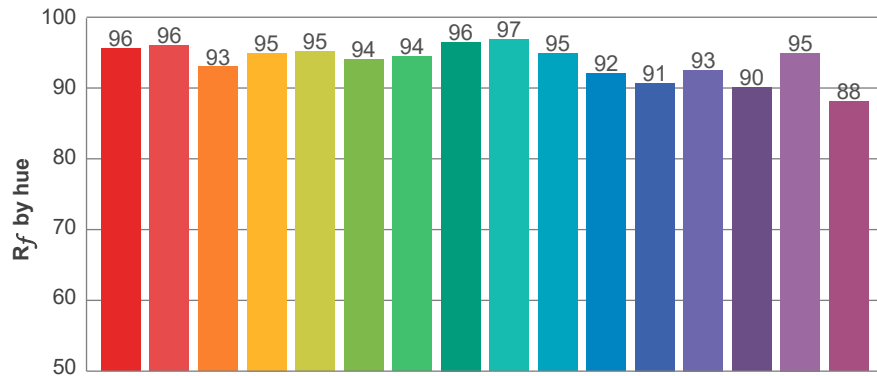
Fidelity index R_f

R_g 102.7

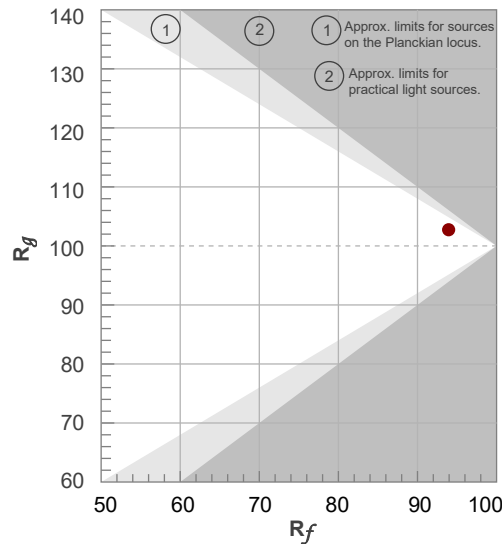
Gammut index R_g

TM30: 93.9

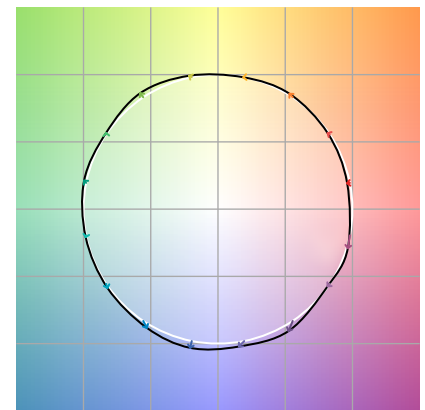
TM-30Color



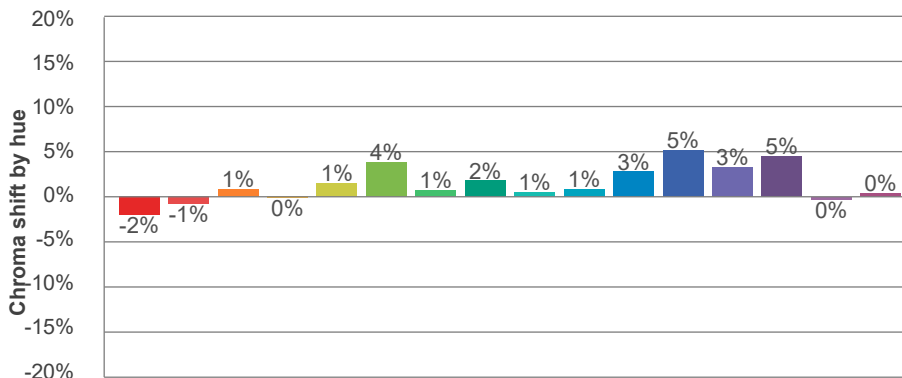
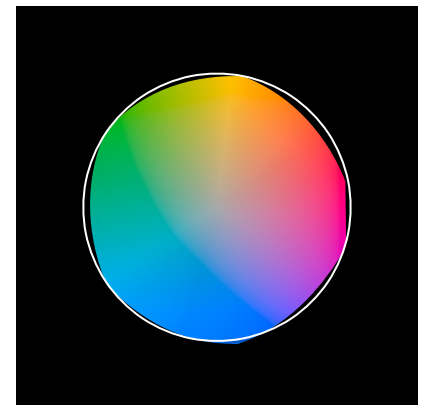
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	3%
4	95	0%	1%
5	95	1%	2%
6	94	4%	0%
7	94	1%	-1%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	93	3%	-5%
14	90	5%	-7%
15	95	0%	-2%
16	88	0%	-10%



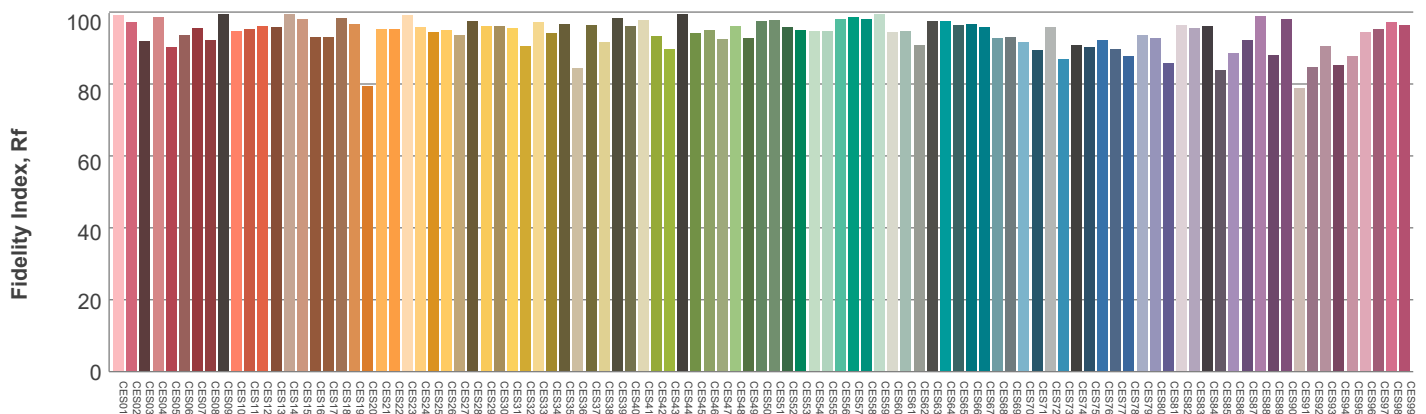
Color vector graphics



Color distortion

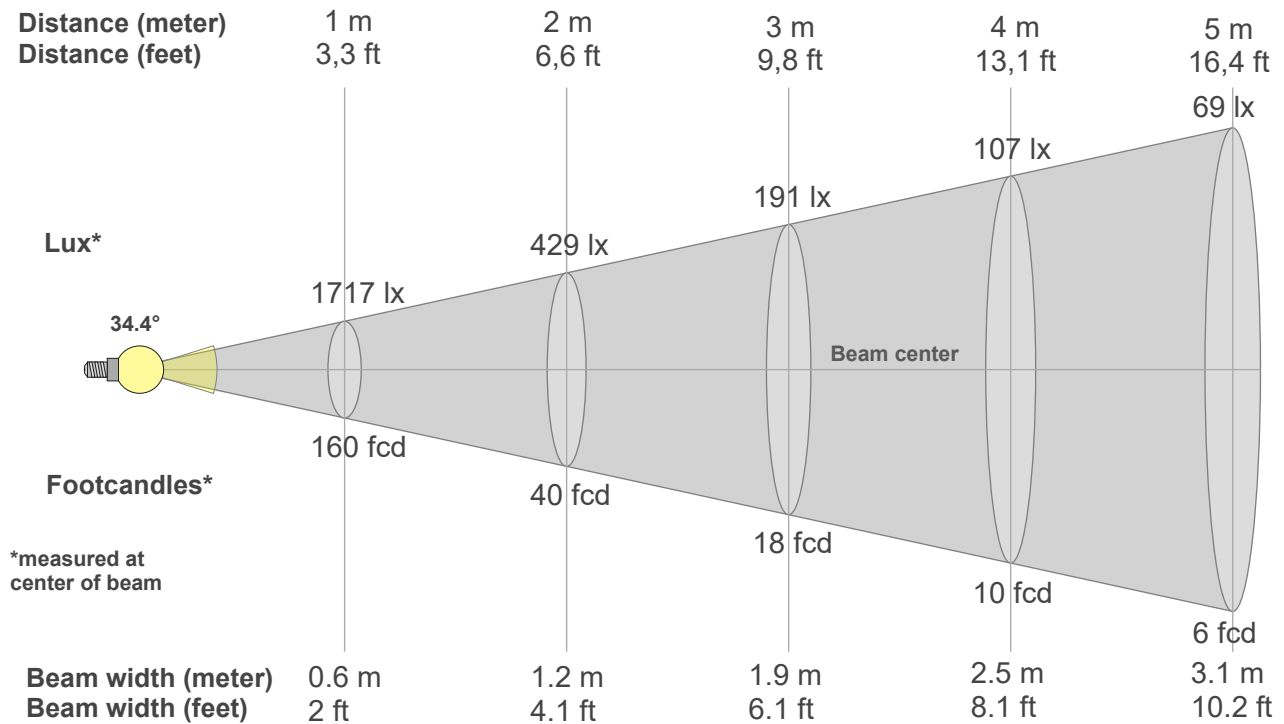


Hue bin



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
1717lx	429lx	191lx	107lx	69lx	48lx	35lx	27lx	21lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
159.5fcd	39.9fcd	17.7fcd	10fcd	6.4fcd	4.4fcd	3.3fcd	2.5fcd	2fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	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°
1717	1712	1686	1636	1561	1459	1325	1157	973	784	600	432	290	189	119	74	47	31	21	14
100%	100%	98%	95%	91%	85%	77%	67%	57%	46%	35%	25%	17%	11%	7%	4%	3%	2%	1%	1%

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°
1717	1712	1686	1636	1561	1459	1325	1157	973	784	600	432	290	189	119	74	47	31	21	14
100%	100%	98%	95%	91%	85%	77%	67%	57%	46%	35%	25%	17%	11%	7%	4%	3%	2%	1%	1%

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°
1717	1712	1686	1636	1561	1459	1325	1157	973	784	600	432	290	189	119	74	47	31	21	14
100%	100%	98%	95%	91%	85%	77%	67%	57%	46%	35%	25%	17%	11%	7%	4%	3%	2%	1%	1%

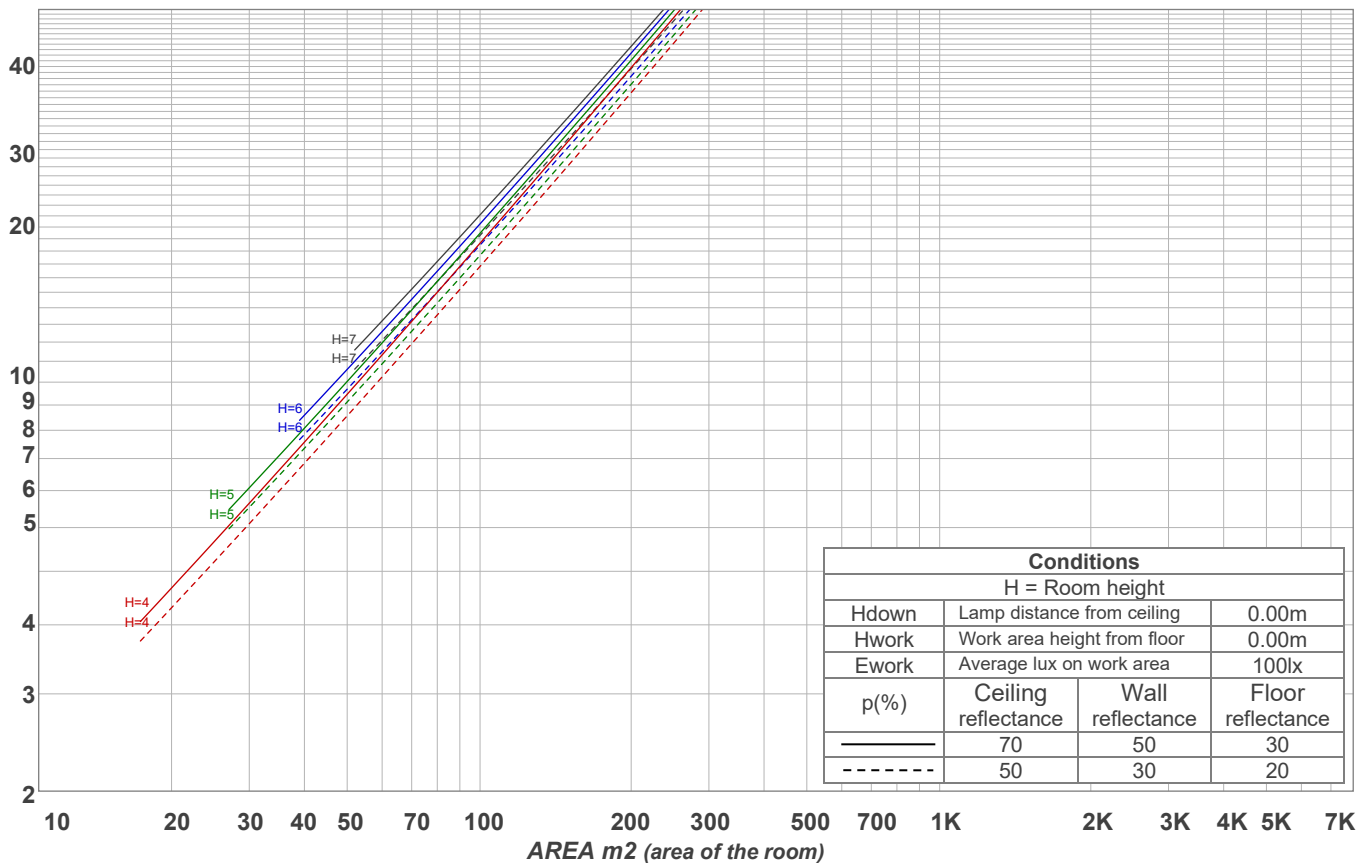
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1717	1712	1686	1636	1561	1459	1325	1157	973	784	600	432	290	189	119	74	47	31	21	14
100%	100%	98%	95%	91%	85%	77%	67%	57%	46%	35%	25%	17%	11%	7%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34.4°	52.7°	64.9°	98.8%	98.3%

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	100	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79
7	93	86	82	79	92	86	81	78	85	81	78	84	80	78	83	80	77	76
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74
9	88	81	76	73	87	80	76	73	79	75	73	79	75	73	78	75	72	71
10	85	78	74	71	84	78	73	71	77	73	70	76	73	70	76	72	70	69

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
153 lm	286 lm	117 lm	17.7 lm	2.66 lm	2.11 lm	2.68 lm	2.11 lm	2.34 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

www.specialty-lighting.com As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.