

Light efficiency:

69 Lumen/Watt

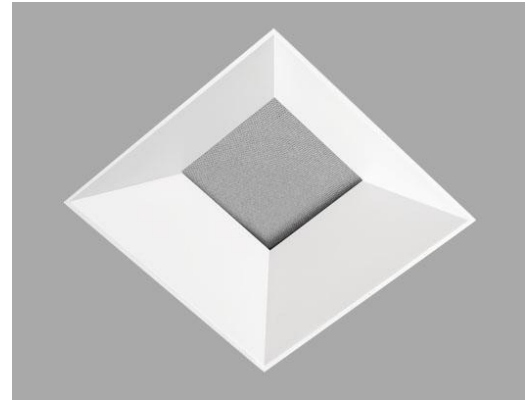
Output: 596 lm

Light quality:

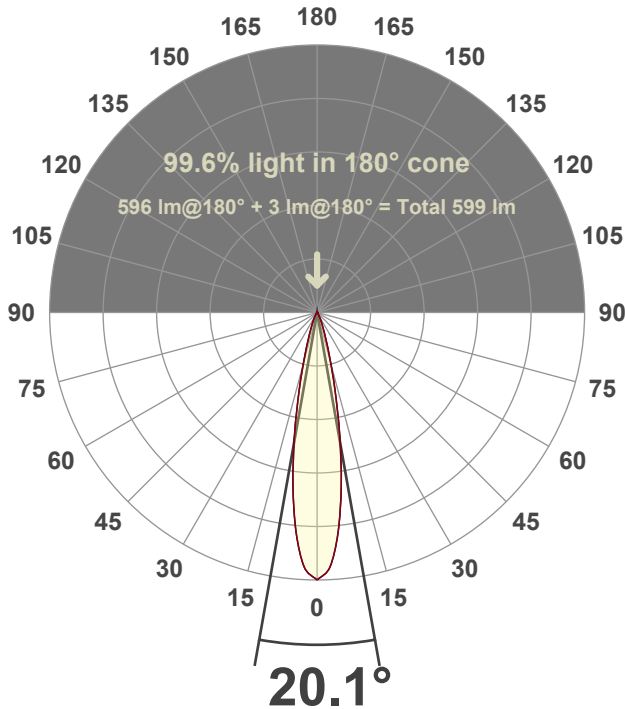
CRI: 96.3

Peak: 3909 cd

Power: 8.7 W



Beam angle



Test number:

CR4D-SA-DR-Z-T9-TW1840-15

Luminaire Model:

Core 4" Square Deep Regress T9-1840-15°

Date and time:

8/19/2025 9:14:41 AM

LUM: 596

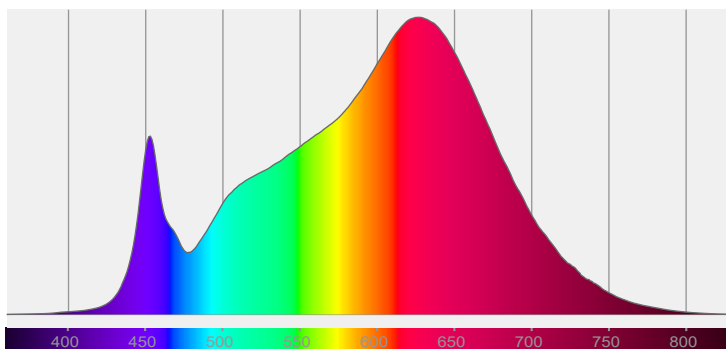
Primary Optic = 20.1°

2909 K

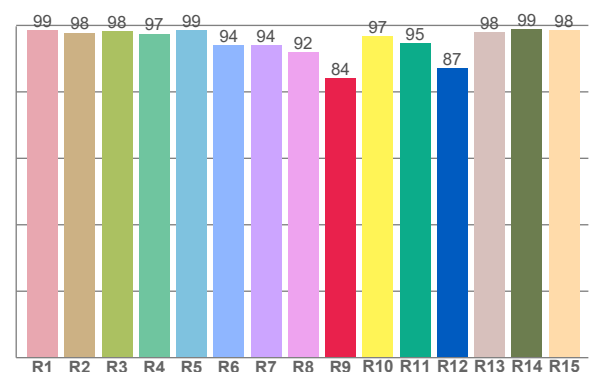
Measured at Mid-Point of Tuneable White CCT Range

*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	84.1	93.9	102.7	93.4	0.436	0.391	0.256	0.344	-0.0050

R_f 93.9

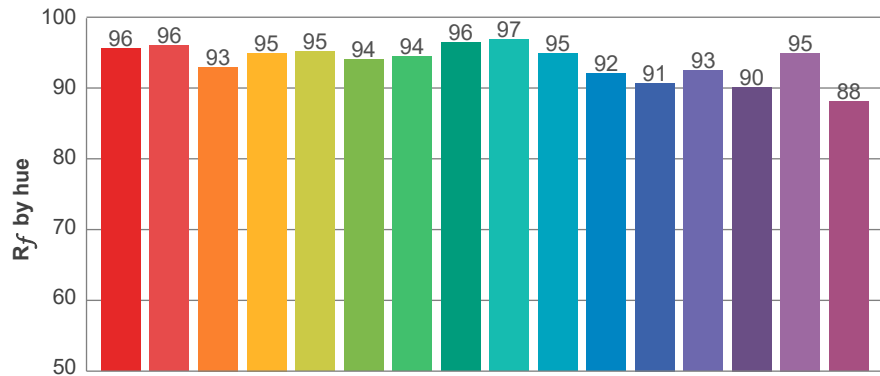
Fidelity index R_f

R_g 102.7

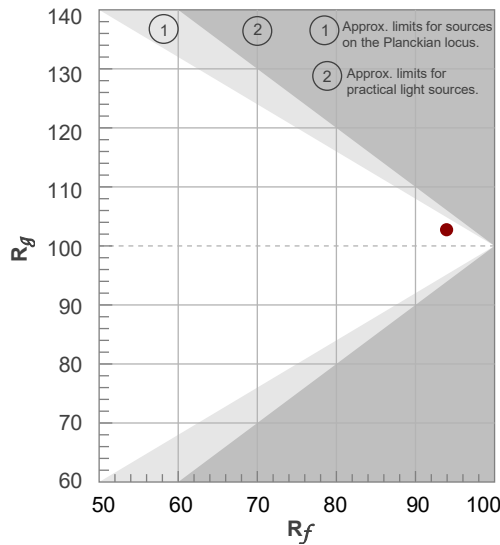
Gammut index R_g

TM30: 93.9

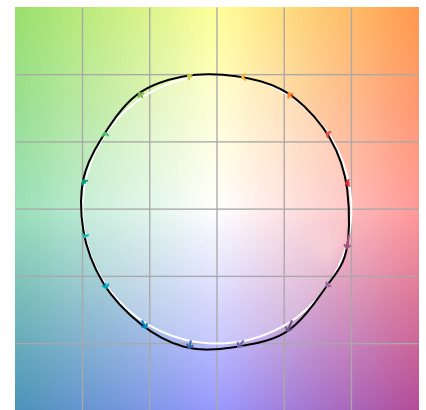
TM-30Color



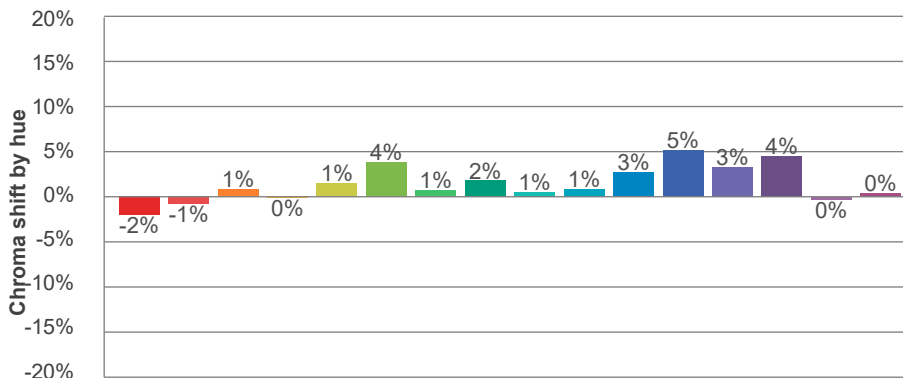
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	3%
4	95	0%	1%
5	95	1%	2%
6	94	4%	0%
7	94	1%	-1%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	93	3%	-5%
14	90	4%	-7%
15	95	0%	-2%
16	88	0%	-10%



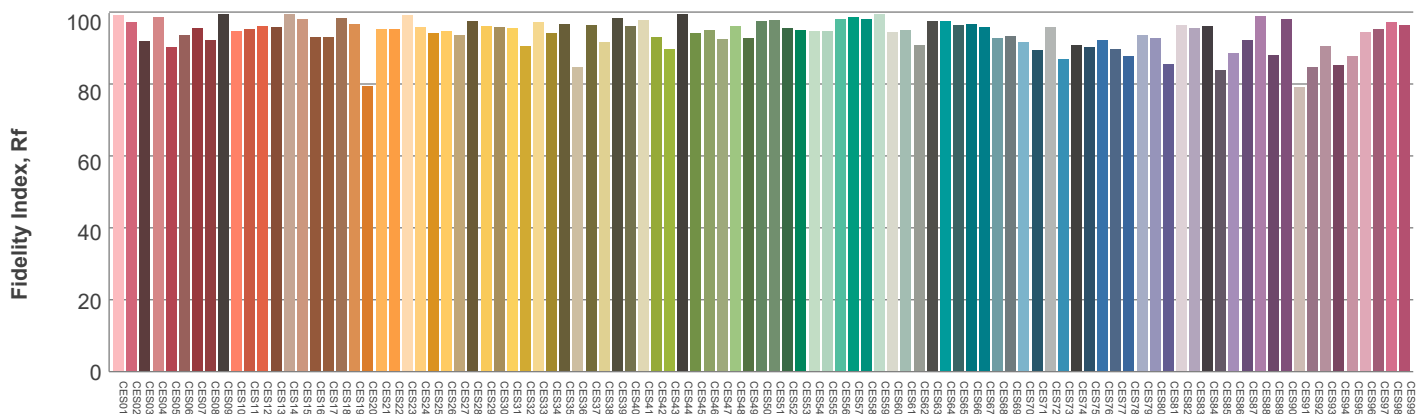
Color vector graphics



Color distortion

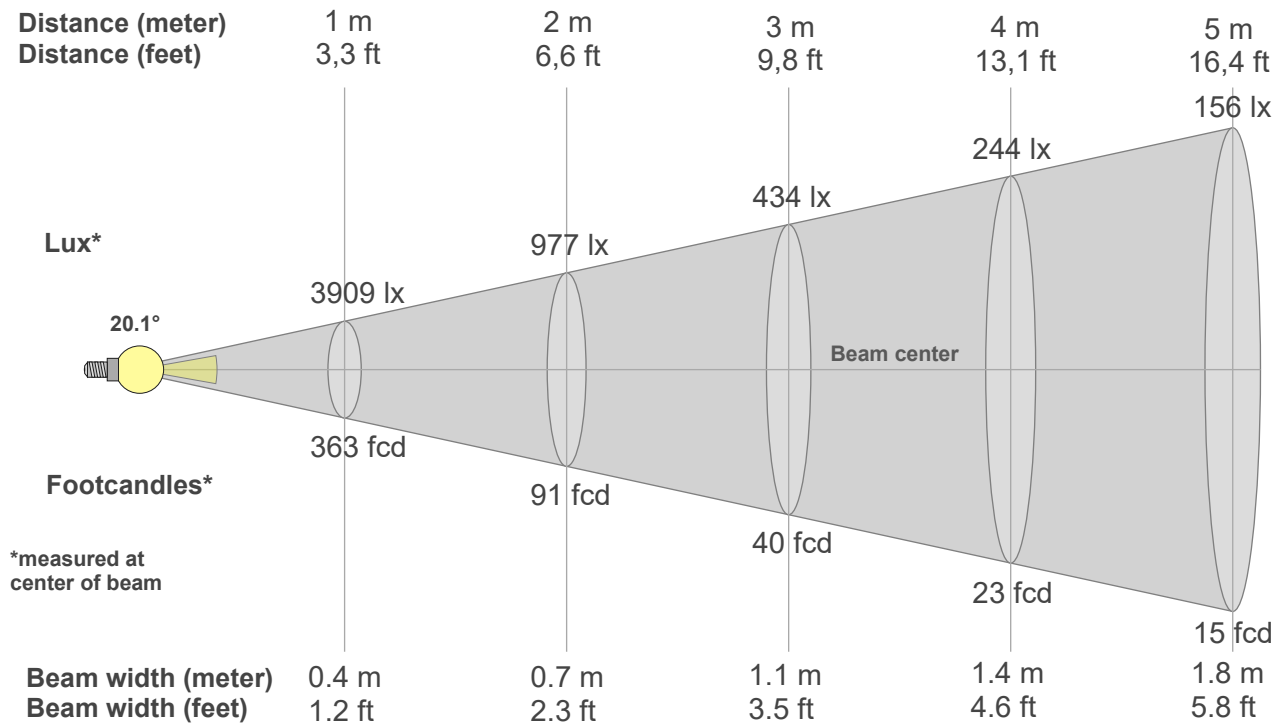


Hue bin



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
3909lx	977lx	434lx	244lx	156lx	109lx	80lx	61lx	48lx	39lx	32lx	27lx	23lx	20lx	17lx	15lx	14lx	12lx	11lx	10lx
363.2fcd	90.8fcd	40.4fcd	22.7fcd	14.5fcd	10.1fcd	7.4fcd	5.7fcd	4.5fcd	3.6fcd	3fcd	2.5fcd	2.1fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3909	3870	3805	3729	3533	3336	3097	2825	2551	2257	1963	1687	1427	1169	984	798	651	539	427	363
100%	99%	97%	95%	90%	85%	79%	72%	65%	58%	50%	43%	37%	30%	25%	20%	17%	14%	11%	9%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3909	3870	3805	3729	3533	3336	3097	2825	2551	2257	1963	1687	1427	1169	984	798	651	539	427	363
100%	99%	97%	95%	90%	85%	79%	72%	65%	58%	50%	43%	37%	30%	25%	20%	17%	14%	11%	9%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3909	3870	3805	3729	3533	3336	3097	2825	2551	2257	1963	1687	1427	1169	984	798	651	539	427	363
100%	99%	97%	95%	90%	85%	79%	72%	65%	58%	50%	43%	37%	30%	25%	20%	17%	14%	11%	9%

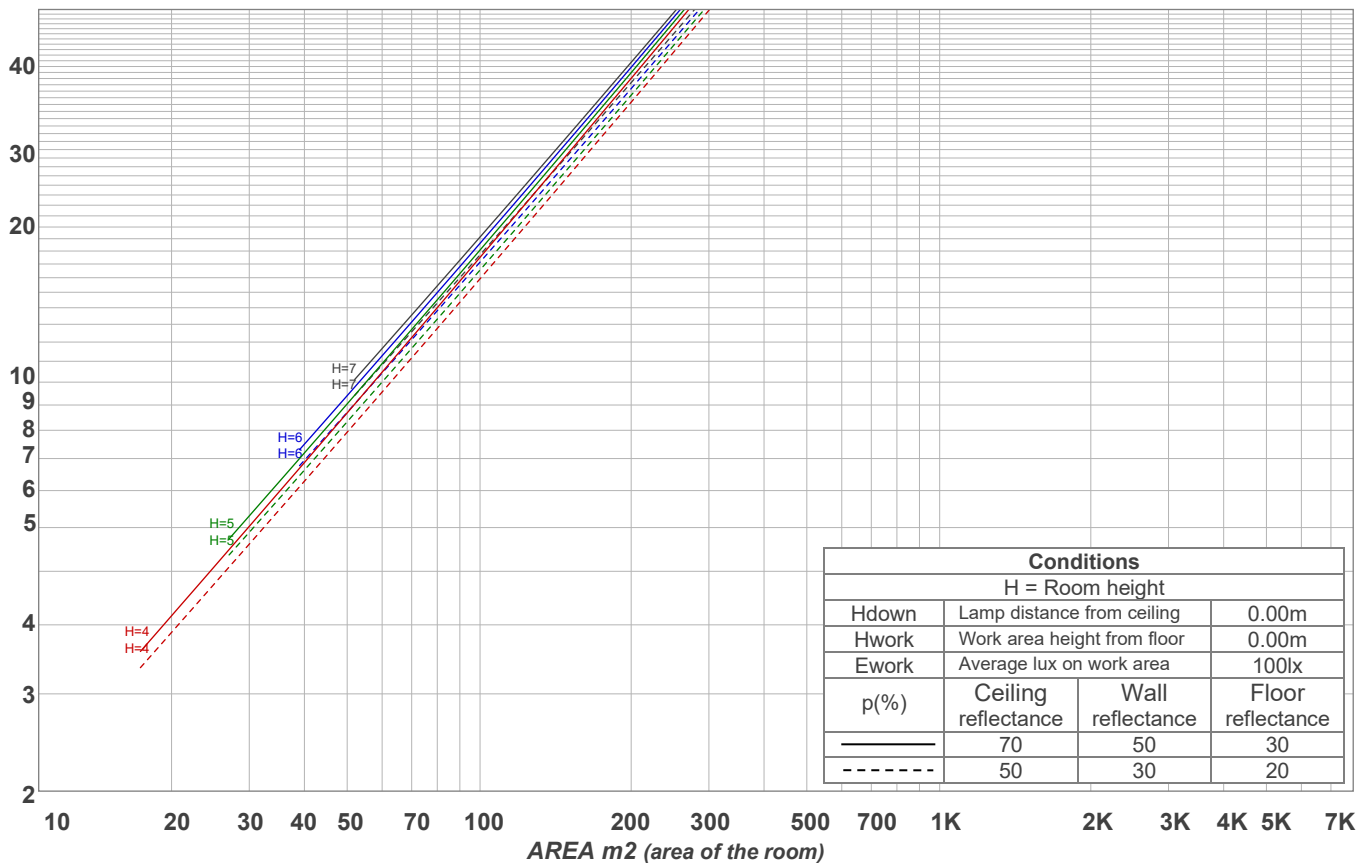
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3909	3870	3805	3729	3533	3336	3097	2825	2551	2257	1963	1687	1427	1169	984	798	651	539	427	363
100%	99%	97%	95%	90%	85%	79%	72%	65%	58%	50%	43%	37%	30%	25%	20%	17%	14%	11%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.1°	37.1°	53.5°	98.7%	98.2%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
272 lm	233 lm	63.0 lm	15.3 lm	2.62 lm	2.22 lm	2.68 lm	2.41 lm	2.51 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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