

Light efficiency:

51 Lumen/Watt

Output: 498 lm

Light quality:

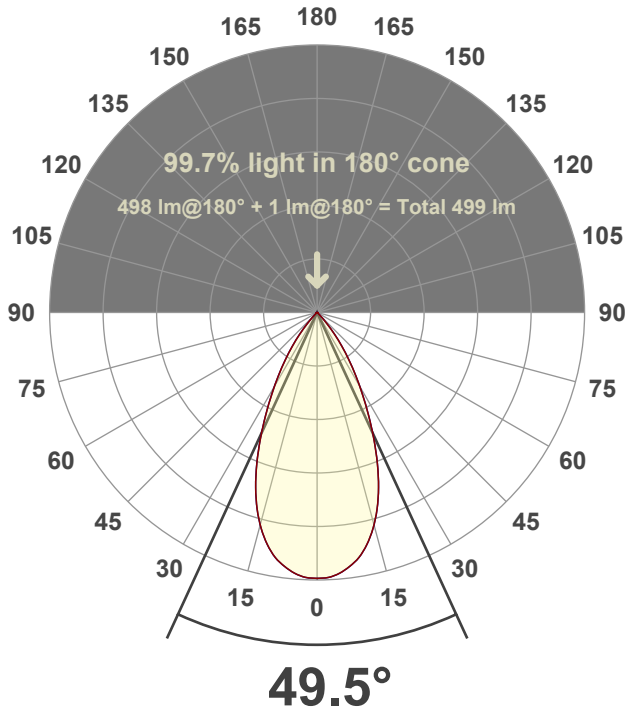
CRI: 96.1

Peak: 727 cd

Power: 9.8 W



Beam angle



Test number:

CR4D-RA-DR-Z-T9-TW1840-50

Luminaire Model:

CORE 4" ROUND DEEP REGRESS T9-1840-50°

Date and time:

8/20/2025 10:08:55 AM

LUM: 498

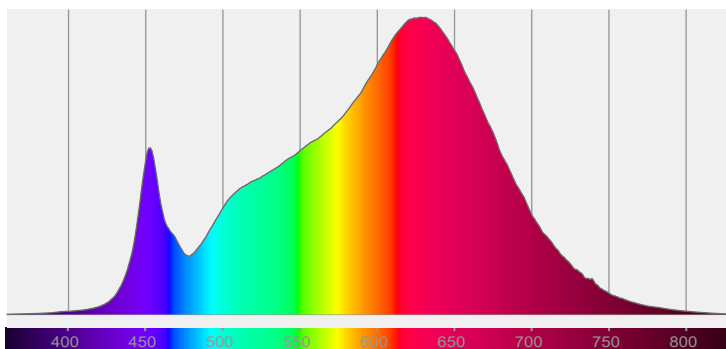
Primary Optic 50° = 49.5°

2847 K

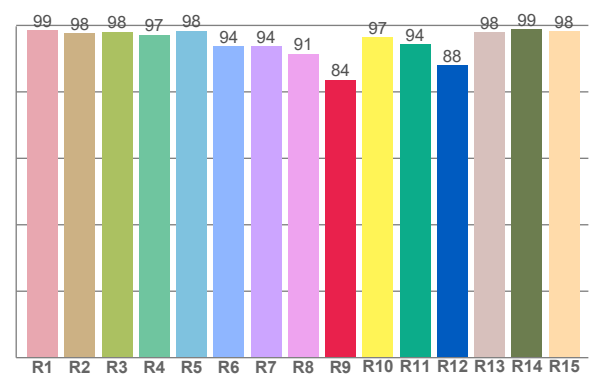
Measured at Mid-Point of Tuneable White CCT Range

*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	83.6	93.9	103.2	93.0	0.440	0.392	0.258	0.345	-0.0053

R_f 93.9

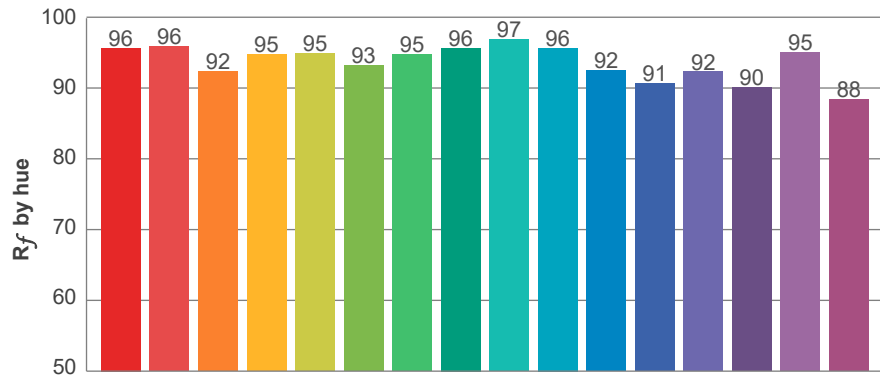
Fidelity index R_f

R_g 103.2

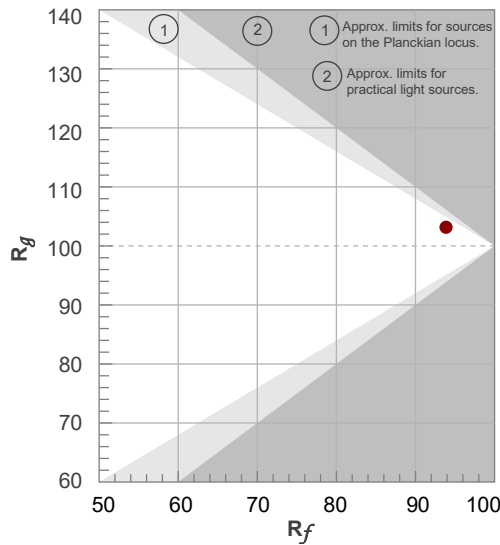
Gammut index R_g

TM30: 93.9

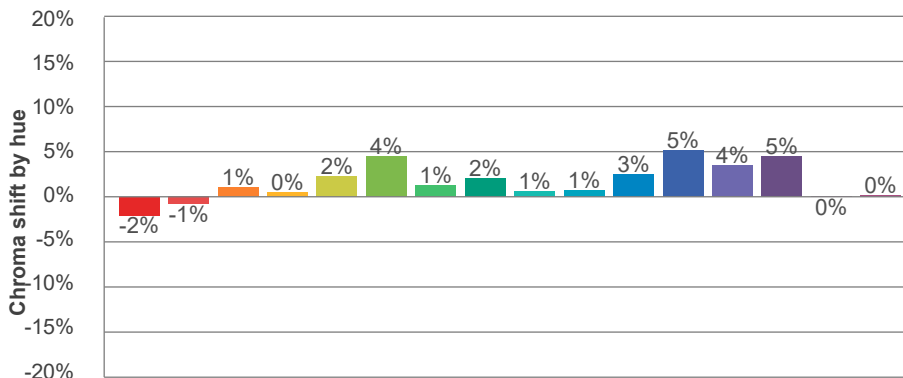
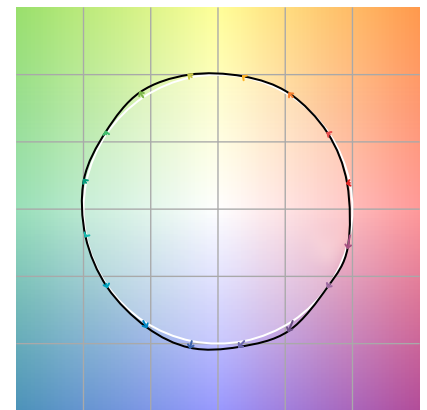
TM-30Color



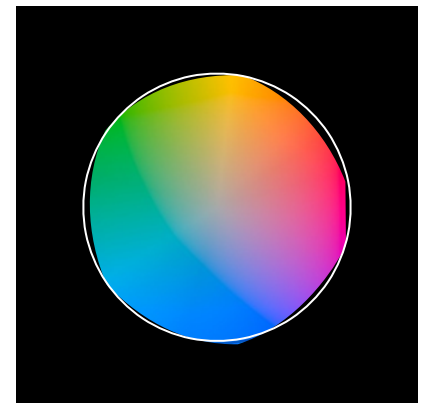
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	95	0%	1%
5	95	2%	2%
6	93	4%	0%
7	95	1%	-2%
8	96	2%	-2%
9	97	1%	1%
10	96	1%	2%
11	92	3%	5%
12	91	5%	0%
13	92	4%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-9%



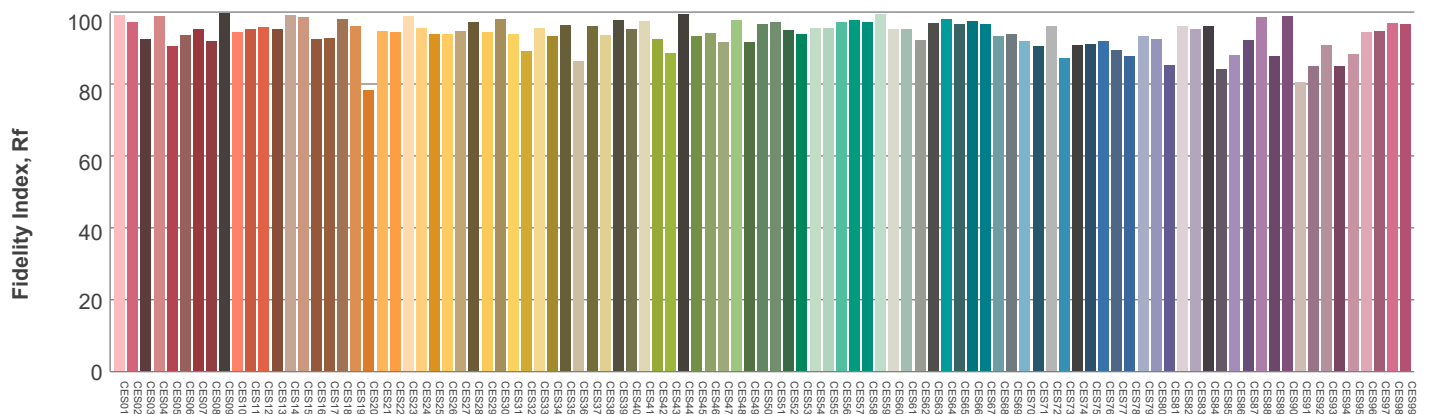
Color vector graphics



Color distortion

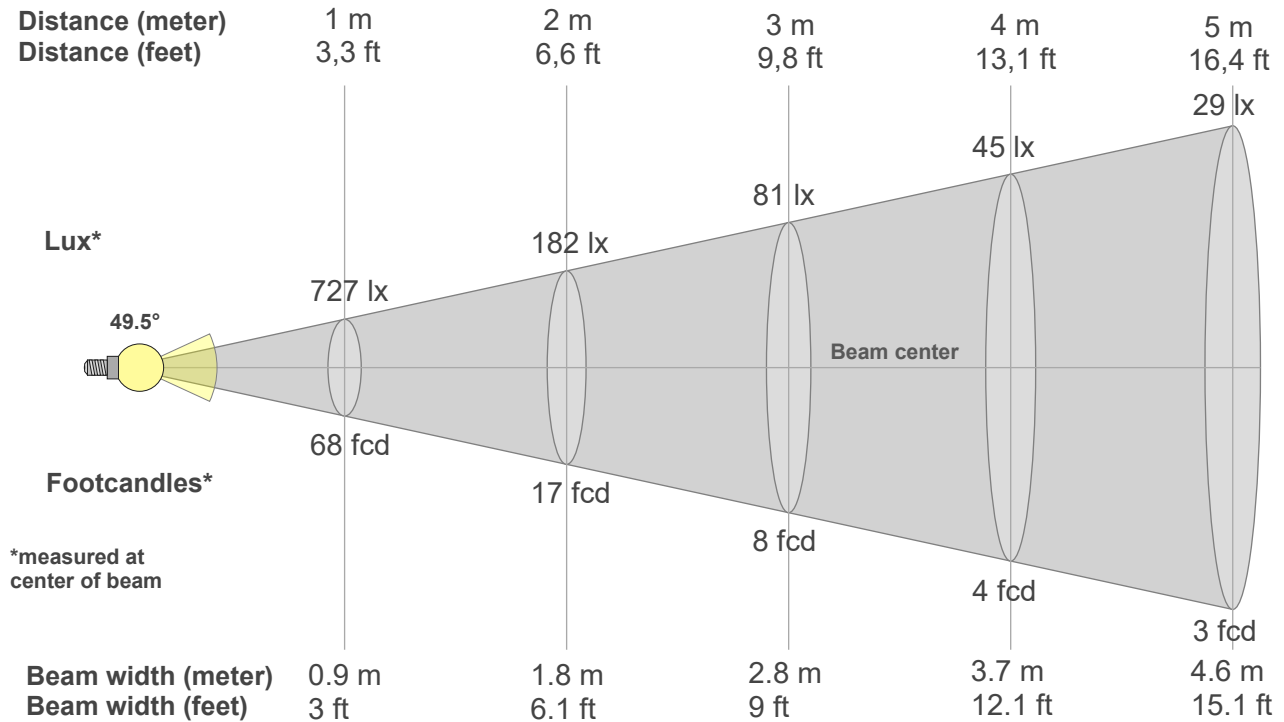


Hue bin



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
727lx	182lx	81lx	45lx	29lx	20lx	15lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx
67.5fcd	16.9fcd	7.5fcd	4.2fcd	2.7fcd	1.9fcd	1.4fcd	1.1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd

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°
727	725	719	708	694	675	650	618	581	538	490	438	383	330	280	234	192	153	119	87
100%	100%	99%	97%	95%	93%	89%	85%	80%	74%	67%	60%	53%	45%	38%	32%	26%	21%	16%	12%

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°
727	725	719	708	694	675	650	618	581	538	490	438	383	330	280	234	192	153	119	87
100%	100%	99%	97%	95%	93%	89%	85%	80%	74%	67%	60%	53%	45%	38%	32%	26%	21%	16%	12%

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°
727	725	719	708	694	675	650	618	581	538	490	438	383	330	280	234	192	153	119	87
100%	100%	99%	97%	95%	93%	89%	85%	80%	74%	67%	60%	53%	45%	38%	32%	26%	21%	16%	12%

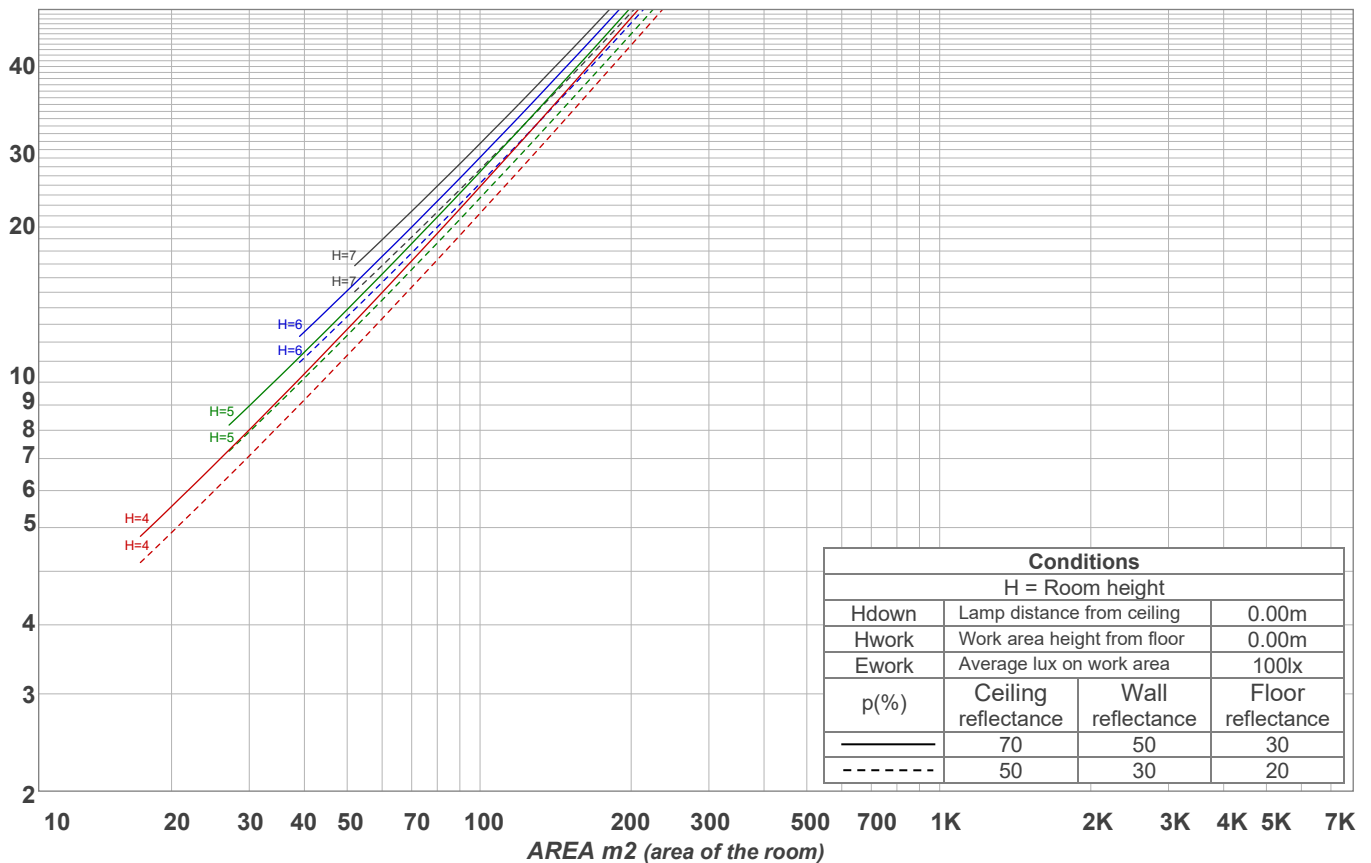
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
727	725	719	708	694	675	650	618	581	538	490	438	383	330	280	234	192	153	119	87
100%	100%	99%	97%	95%	93%	89%	85%	80%	74%	67%	60%	53%	45%	38%	32%	26%	21%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49.5°	77.8°	87.1°	99.0%	98.5%

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	73	71	69
7	86	77	72	68	85	77	72	68	76	71	67	74	70	67	73	70	67	65
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62
9	79	70	64	61	78	69	64	61	68	64	60	68	63	60	67	63	60	59
10	75	66	61	57	75	66	61	57	65	60	57	65	60	57	64	60	57	56

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
66.9 lm	166 lm	162 lm	84.9 lm	11.9 lm	1.35 lm	1.78 lm	1.53 lm	1.63 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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