

Light efficiency:

52 Lumen/Watt

Output: 506 lm

Light quality:

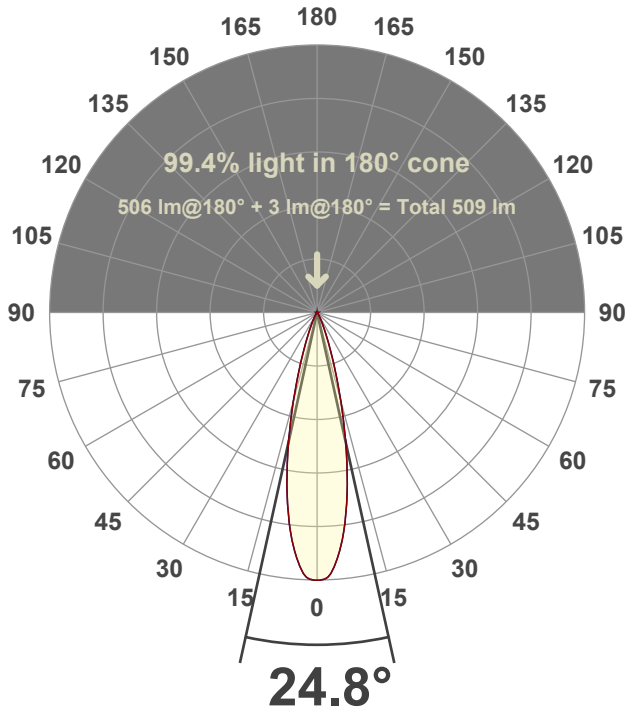
CRI: 96.2

Peak: 2464 cd

Power: 9.7 W



Beam angle



Test number:

CR4D-RA-DR-Z-T9-TW1840-24

Luminaire Model:

CORE 4" ROUND DEEP REGRESS T9-1840-24°

Date and time:

8/22/2025 11:23:58 AM

LUM: 506

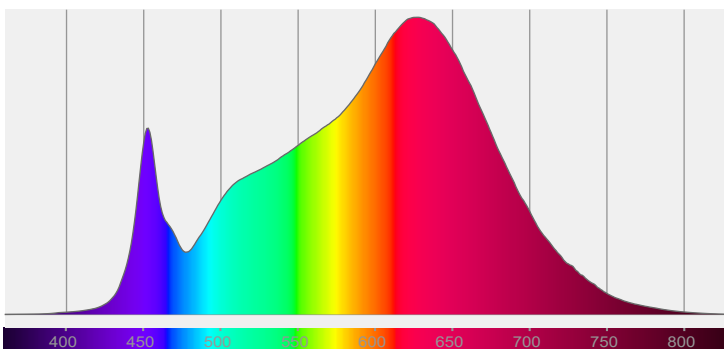
Primary Optic 24° = 24.8°

2937 K

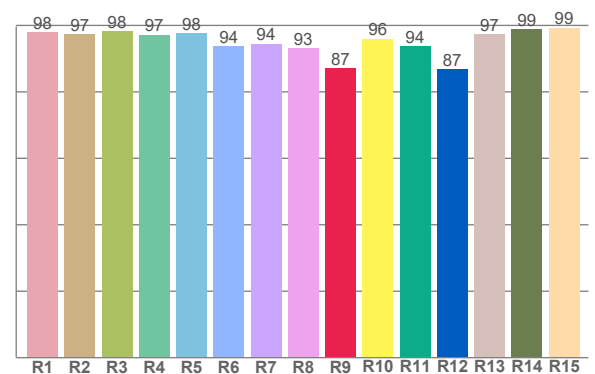
Measured at Mid-Point of Tuneable White CCT Range

*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	87.0	94.2	103.0	93.8	0.434	0.390	0.255	0.344	-0.0052

R_f 94.2

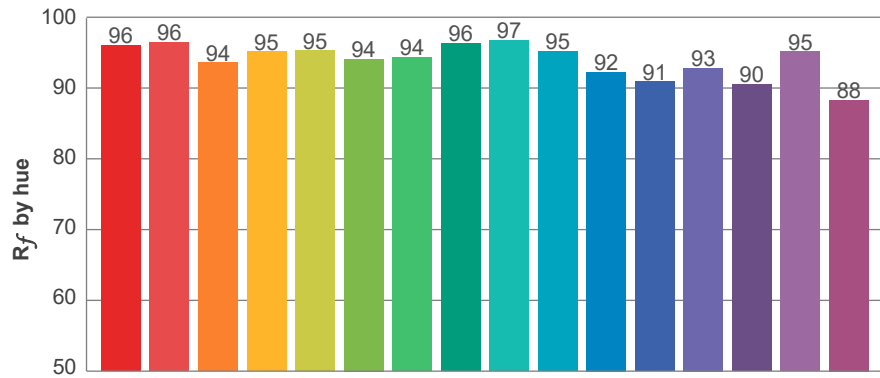
Fidelity index R_f

R_g 103.0

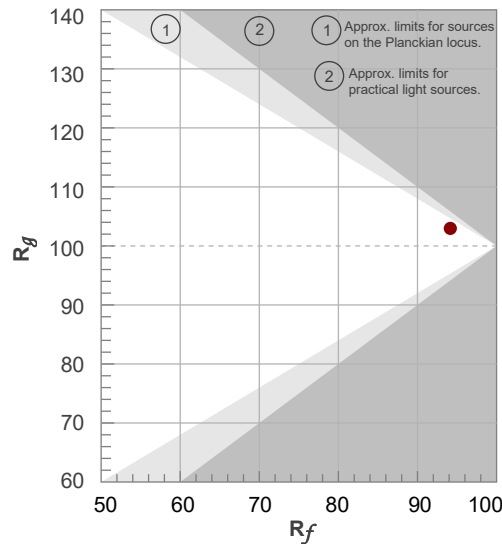
Gammut index R_g

TM30: 94.2

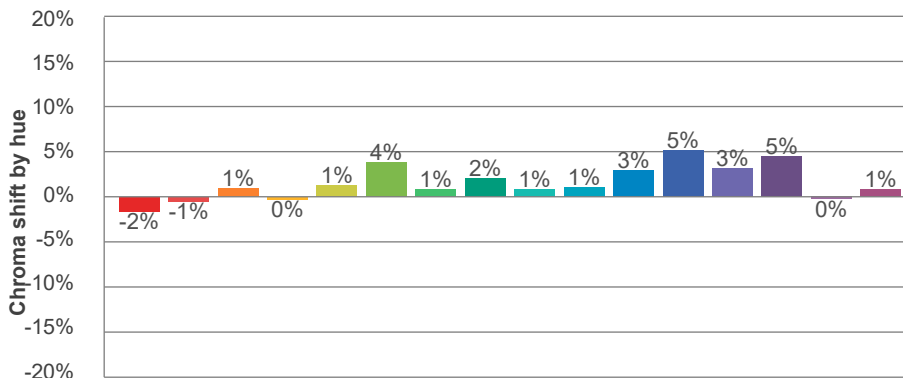
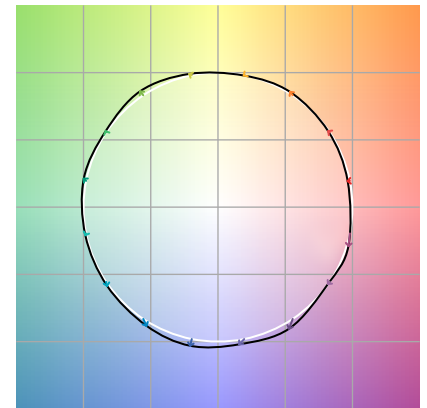
TM-30Color



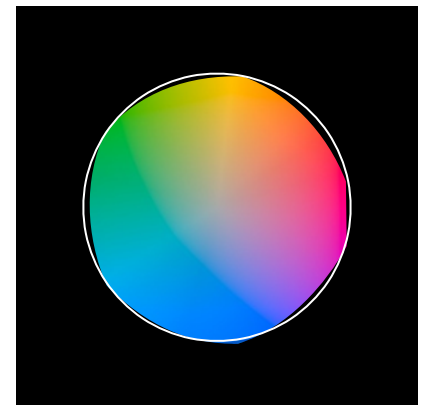
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	1%
3	94	1%	3%
4	95	0%	0%
5	95	1%	2%
6	94	4%	0%
7	94	1%	-1%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	93	3%	-4%
14	90	5%	-6%
15	95	0%	-2%
16	88	1%	-9%



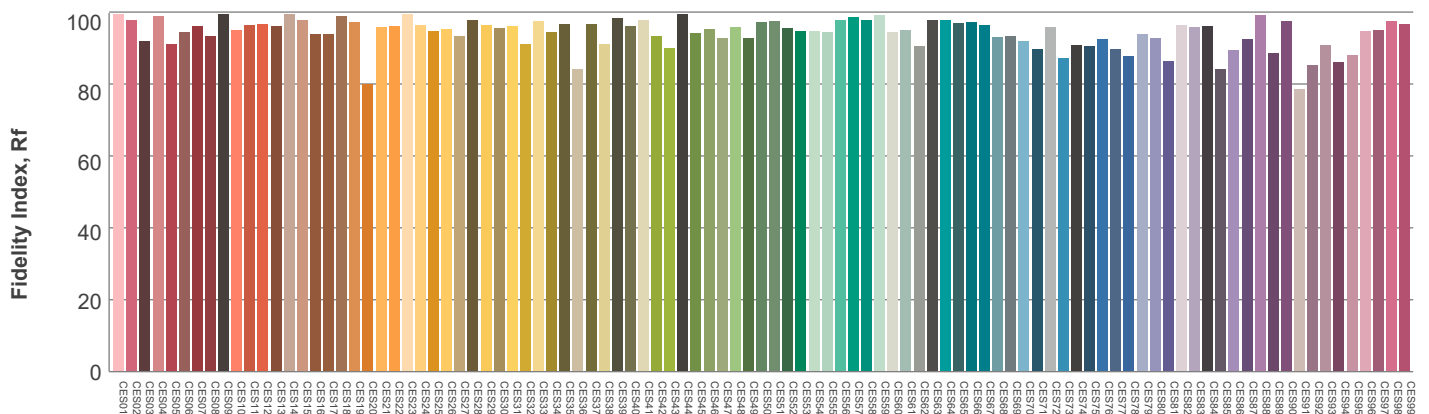
Color vector graphics



Color distortion

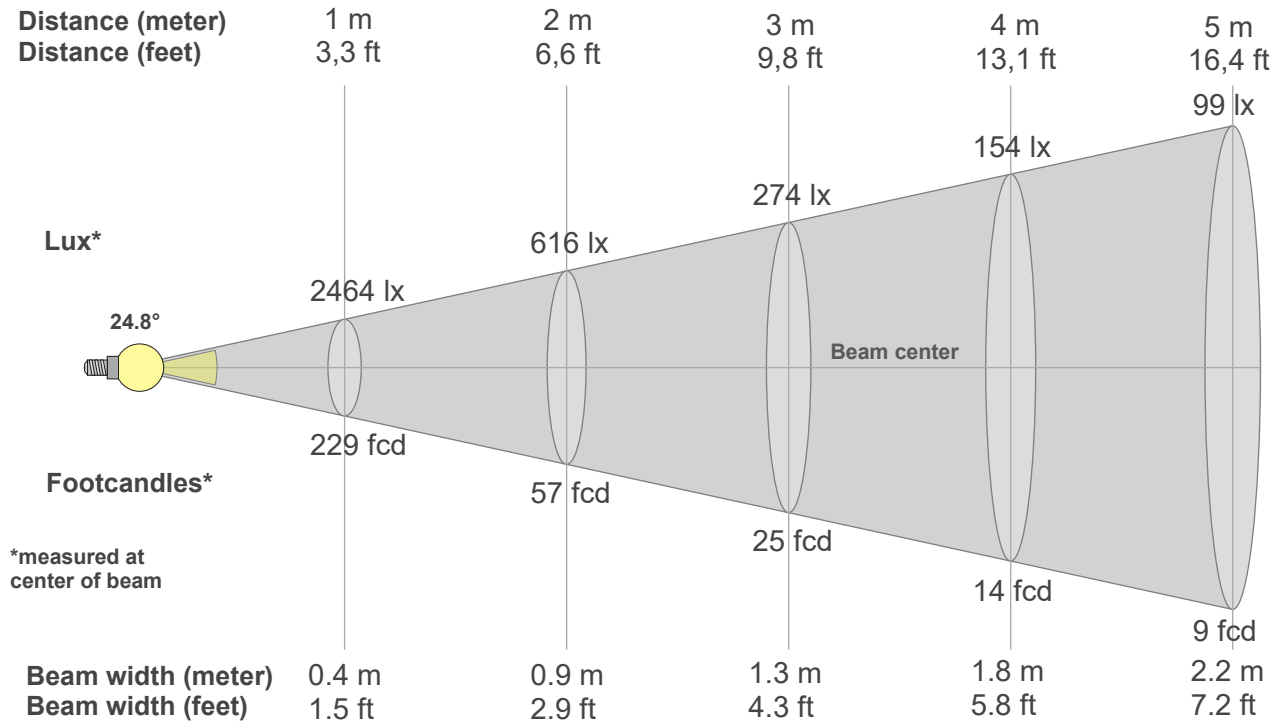


Hue bin



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
2464lx	616lx	274lx	154lx	99lx	68lx	50lx	38lx	30lx	25lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
228.9fcd	57.2fcd	25.4fcd	14.3fcd	9.2fcd	6.4fcd	4.7fcd	3.6fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	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°
2464	2463	2337	2144	1896	1608	1296	991	722	503	337	220	145	99	67	45	30	20	13	8
100%	100%	95%	87%	77%	65%	53%	40%	29%	20%	14%	9%	6%	4%	3%	2%	1%	1%	1%	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°
2464	2463	2337	2144	1896	1608	1296	991	722	503	337	220	145	99	67	45	30	20	13	8
100%	100%	95%	87%	77%	65%	53%	40%	29%	20%	14%	9%	6%	4%	3%	2%	1%	1%	1%	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°
2464	2463	2337	2144	1896	1608	1296	991	722	503	337	220	145	99	67	45	30	20	13	8
100%	100%	95%	87%	77%	65%	53%	40%	29%	20%	14%	9%	6%	4%	3%	2%	1%	1%	1%	0%

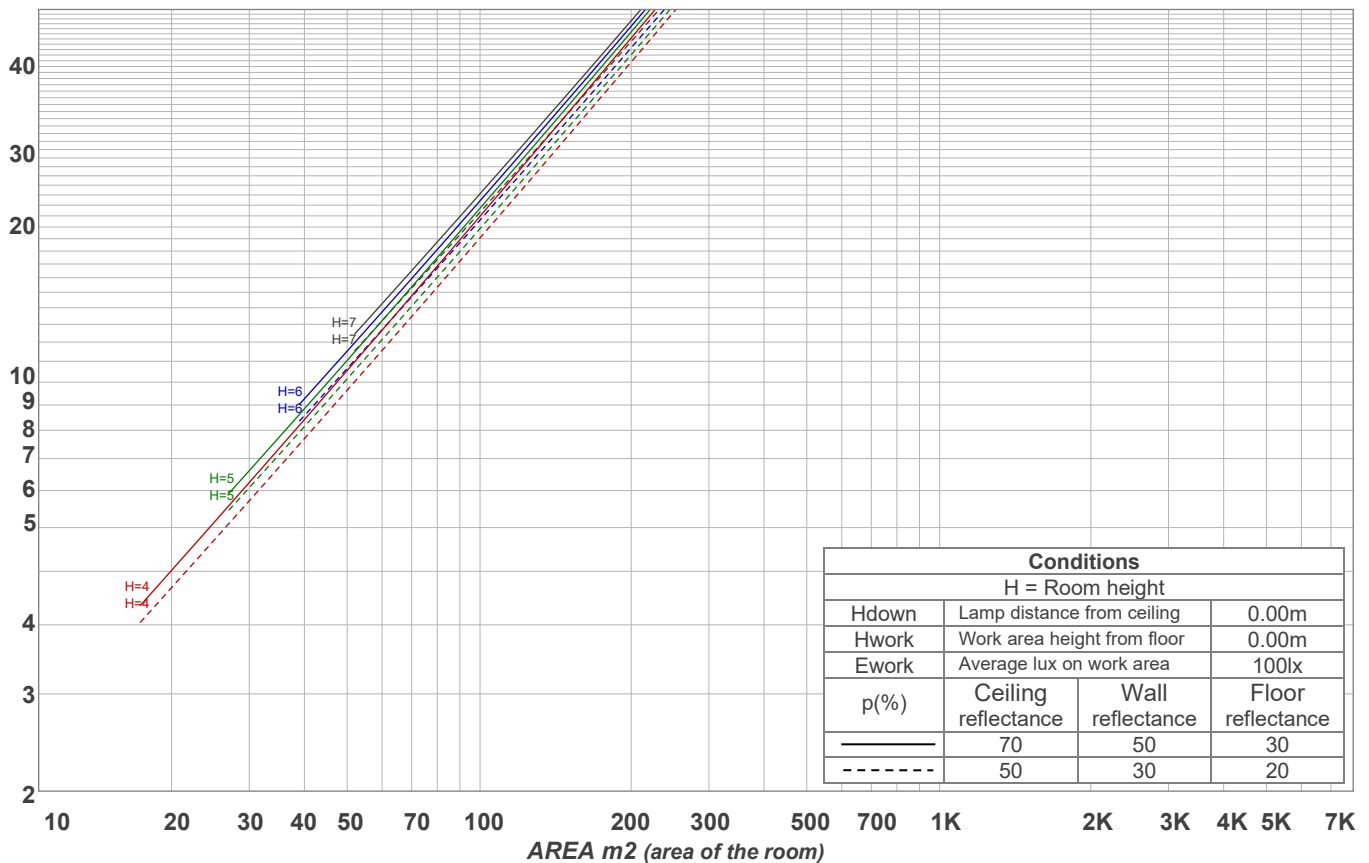
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2464	2463	2337	2144	1896	1608	1296	991	722	503	337	220	145	99	67	45	30	20	13	8
100%	100%	95%	87%	77%	65%	53%	40%	29%	20%	14%	9%	6%	4%	3%	2%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.8°	42.9°	56.8°	99.2%	98.9%

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	113	111	109	113	111	109	108	107	105	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	91
4	105	100	96	93	103	99	95	92	97	94	91	95	92	90	93	91	89	88
5	102	96	92	89	101	95	92	89	94	91	88	92	90	88	91	89	87	86
6	99	93	89	86	98	93	89	86	91	88	86	90	87	85	89	86	85	83
7	97	90	86	84	96	90	86	83	89	86	83	88	85	83	87	84	82	81
8	94	88	84	81	93	87	84	81	87	83	81	86	83	81	85	82	80	79
9	92	86	82	79	91	85	82	79	84	81	79	84	81	79	83	80	78	77
10	90	83	80	77	89	83	79	77	82	79	77	82	79	77	81	78	76	76

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
194 lm	233 lm	61.5 lm	11.3 lm	1.47 lm	1.01 lm	1.22 lm	1.30 lm	1.55 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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