

Light efficiency:

52 Lumen/Watt

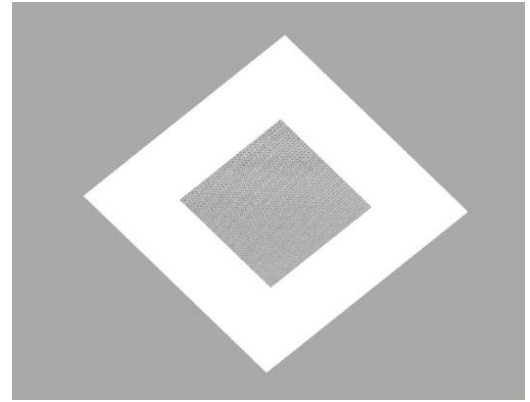
Output: 426 lm

Light quality:

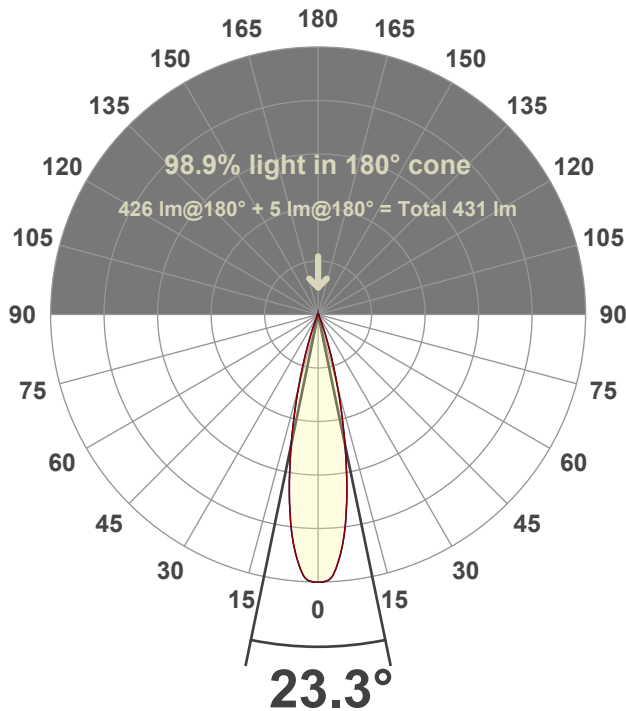
CRI: 96.0

Peak: 2454 cd

Power: 8.3 W



Beam angle



Test number:

CR4D-SA-FL-Z-T9-TW1840-24

Luminaire Model:

Core 4" Square Flat T9-1840-24°

Date and time:

8/26/2025 1:29:18 PM

LUM: 426

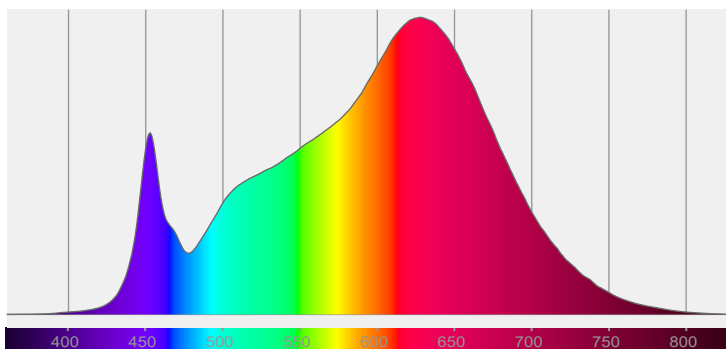
Primary Optic = 23.3°

2903 K

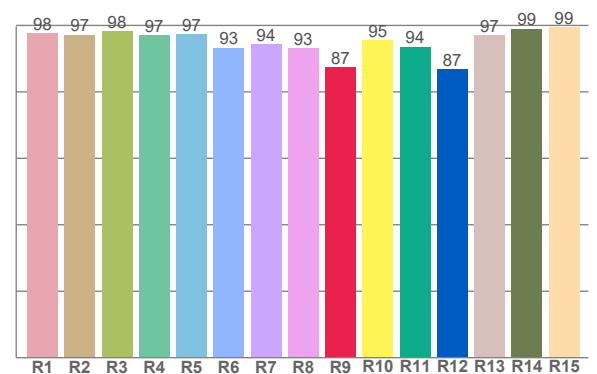
Measured at Mid-Point of Tuneable White CCT Range

*Variation due to source size, bezel geometry, or secondary optics

Spectra



CRI: 96.0 (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
	96.0	87.4	94.1	103.1	93.7	0.436	0.390	0.256	0.344	-0.0054

R_f 94.1

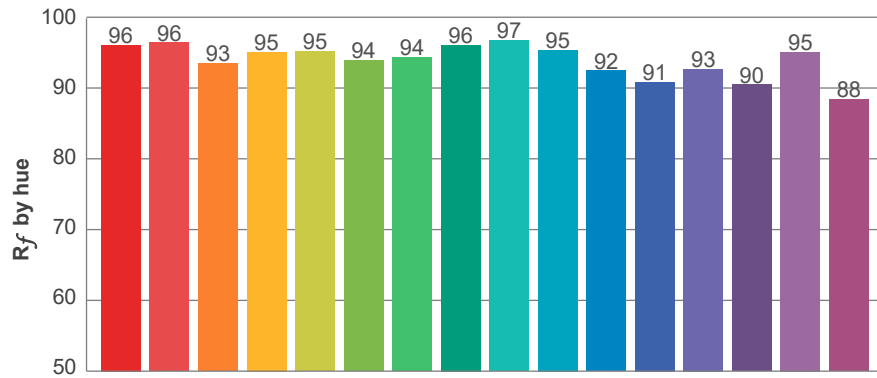
Fidelity index R_f

R_g 103.1

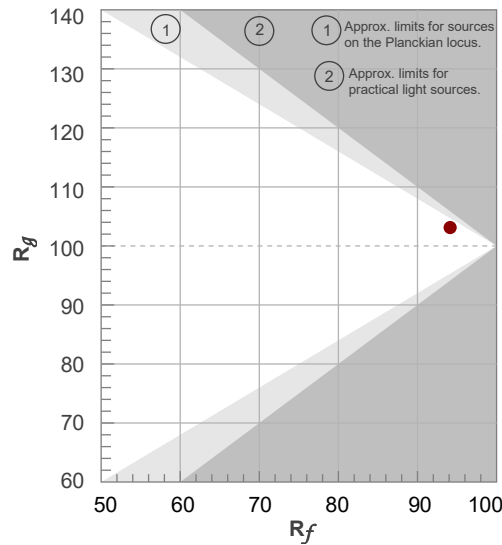
Gammut index R_g

TM30: 94.1

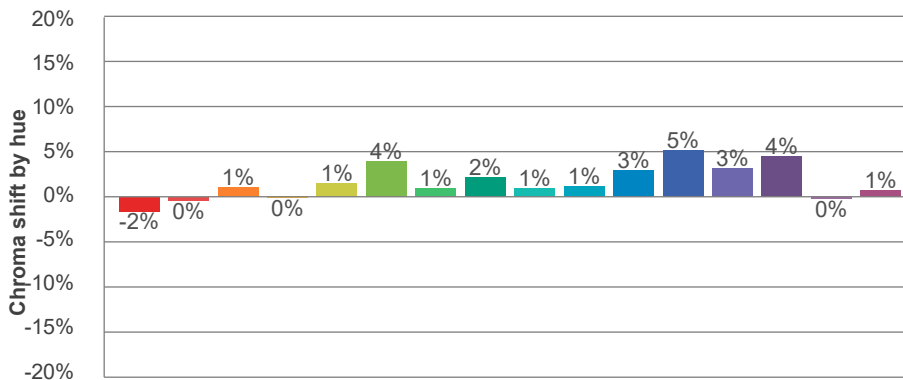
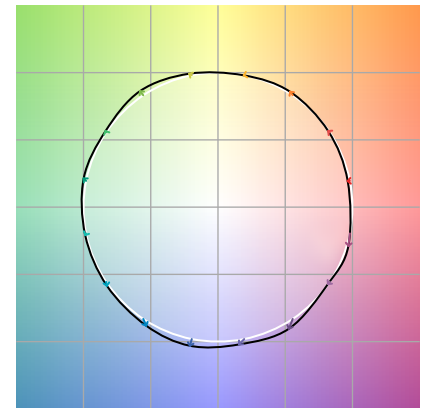
TM-30Color



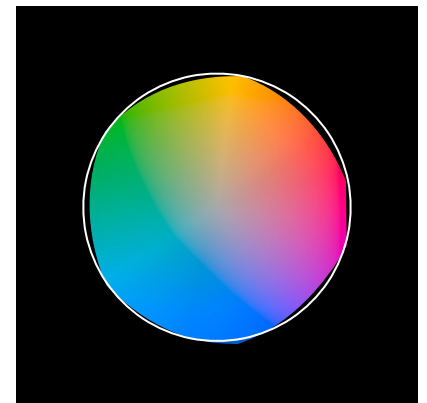
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	0%	1%
3	93	1%	3%
4	95	0%	0%
5	95	1%	2%
6	94	4%	0%
7	94	1%	-1%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	93	3%	-5%
14	90	4%	-6%
15	95	0%	-2%
16	88	1%	-9%



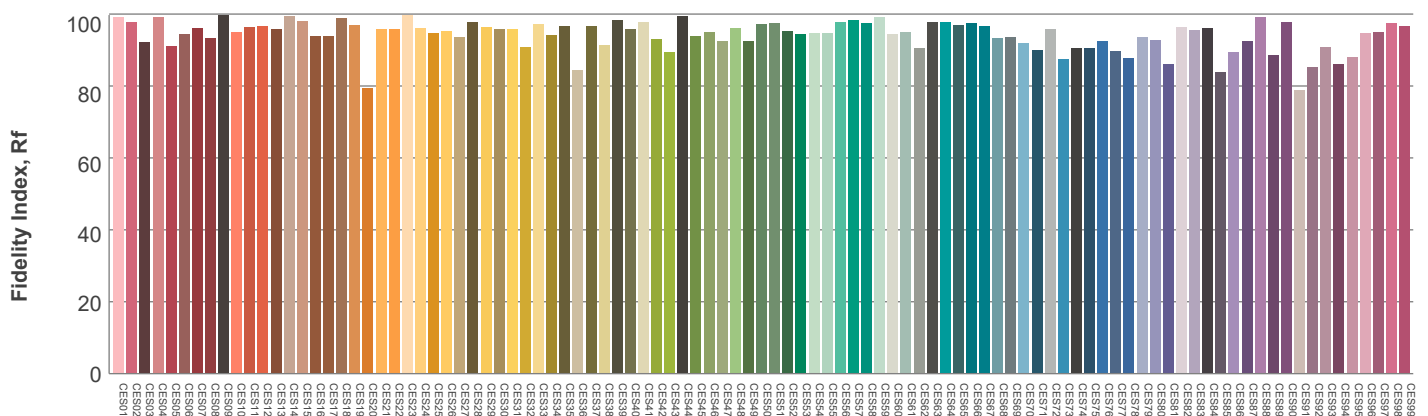
Color vector graphics



Color distortion

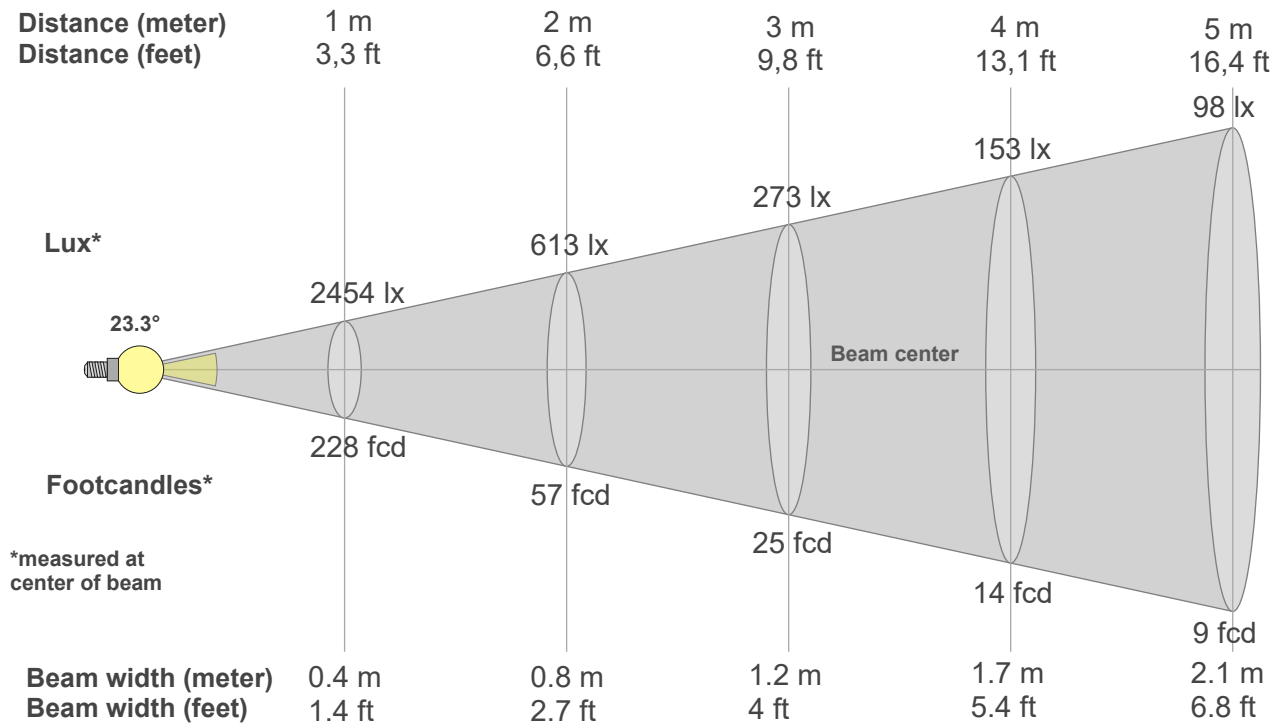


Hue bin



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
2454lx	613lx	273lx	153lx	98lx	68lx	50lx	38lx	30lx	25lx	20lx	17lx	15lx	13lx	11lx	10lx	8lx	8lx	7lx	6lx
228fcd	57fcd	25.3fcd	14.2fcd	9.1fcd	6.3fcd	4.7fcd	3.6fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2454	2454	2454	2401	2336	2247	2131	2011	1851	1692	1520	1344	1173	1010	848	707	566	451	346	257
100%	100%	100%	98%	95%	92%	87%	82%	75%	69%	62%	55%	48%	41%	35%	29%	23%	18%	14%	10%

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°
2454	2454	2454	2401	2336	2247	2131	2011	1851	1692	1520	1344	1173	1010	848	707	566	451	346	257
100%	100%	100%	98%	95%	92%	87%	82%	75%	69%	62%	55%	48%	41%	35%	29%	23%	18%	14%	10%

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°
2454	2454	2454	2401	2336	2247	2131	2011	1851	1692	1520	1344	1173	1010	848	707	566	451	346	257
100%	100%	100%	98%	95%	92%	87%	82%	75%	69%	62%	55%	48%	41%	35%	29%	23%	18%	14%	10%

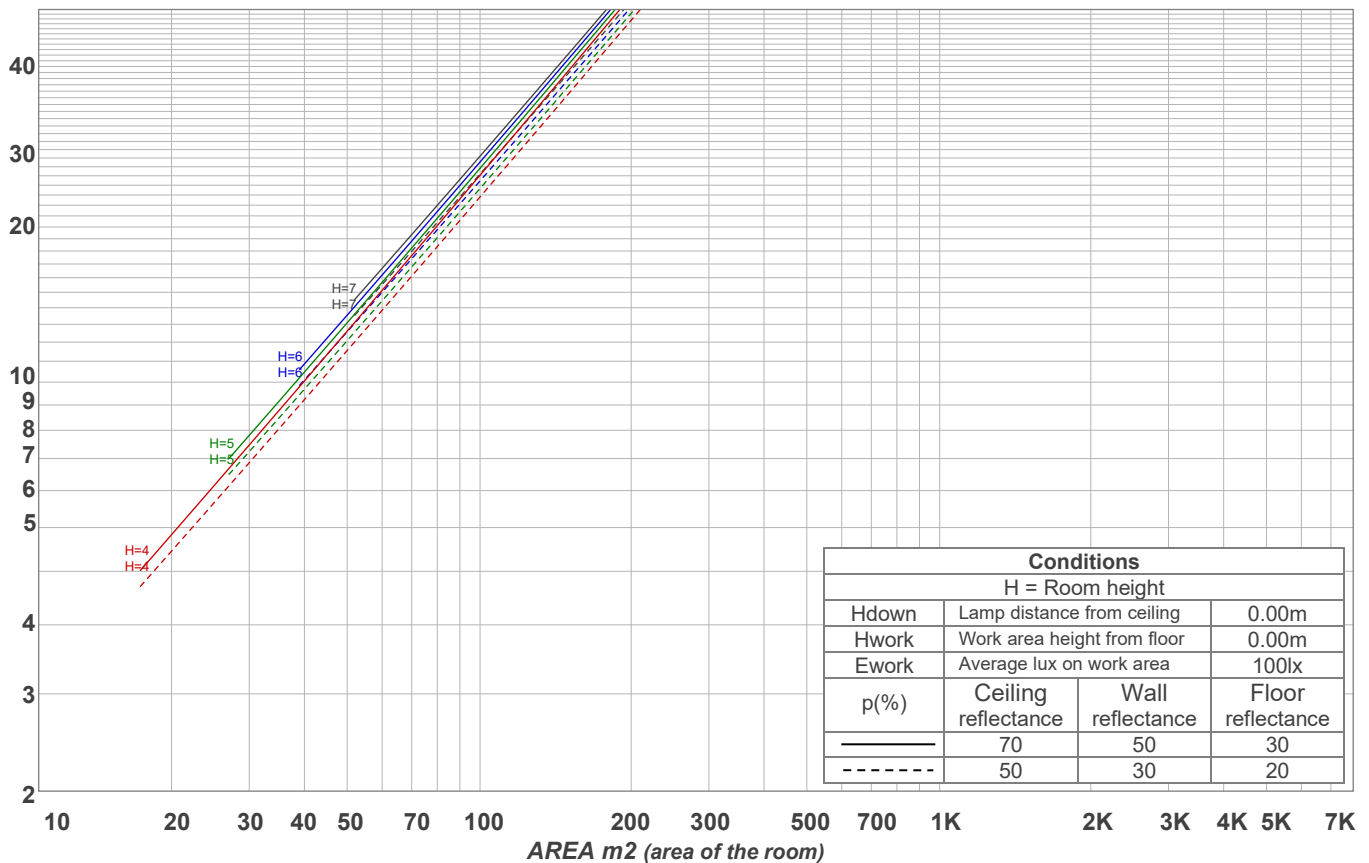
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2454	2454	2454	2401	2336	2247	2131	2011	1851	1692	1520	1344	1173	1010	848	707	566	451	346	257
100%	100%	100%	98%	95%	92%	87%	82%	75%	69%	62%	55%	48%	41%	35%	29%	23%	18%	14%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.3°	38.4°	46.7°	96.9%	95.9%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
191 lm	193 lm	22.9 lm	1.66 lm	1.65 lm	3.19 lm	4.65 lm	4.95 lm	3.56 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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