

Light efficiency:

58 Lumen/Watt

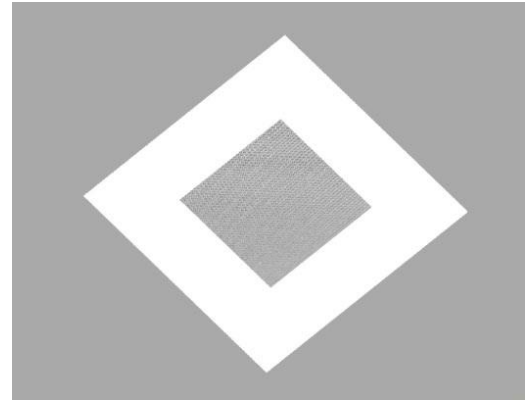
Output: 480 lm

Light quality:

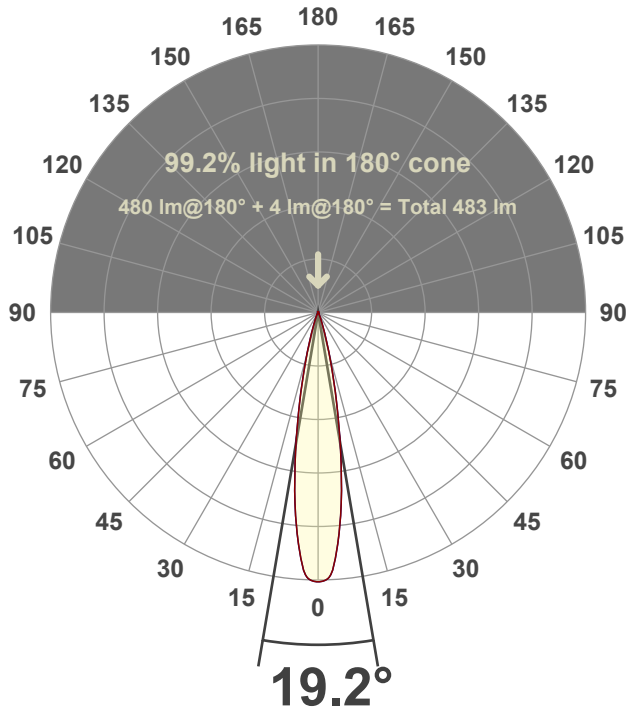
CRI: 96.3

Peak: 3693 cd

Power: 8.3 W



Beam angle



Test number:

CR4D-SA-FL-Z-T9-TW1840-15

Luminaire Model:

Core 4" Square Flat T9-1840-15°

Date and time:

8/26/2025 1:24:55 PM

LUM: 480

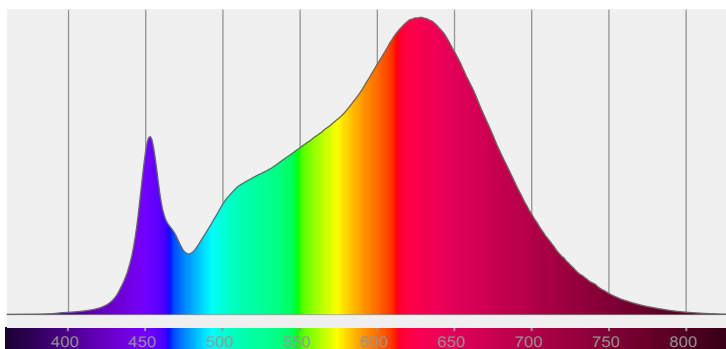
Primary Optic = 19.2°

2893 K

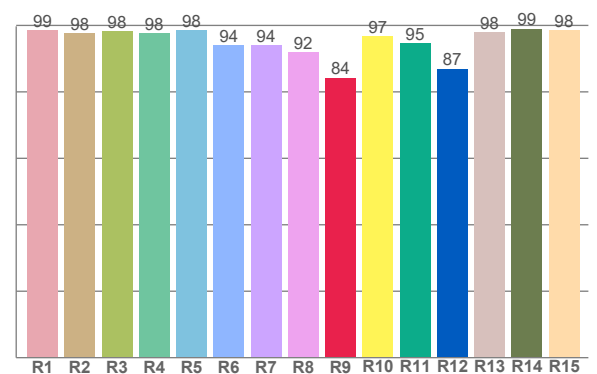
Measured at Mid-Point of Tuneable White CCT Range

*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	0.437	0.392	0.256	0.344	-0.0050

R_f 93.9

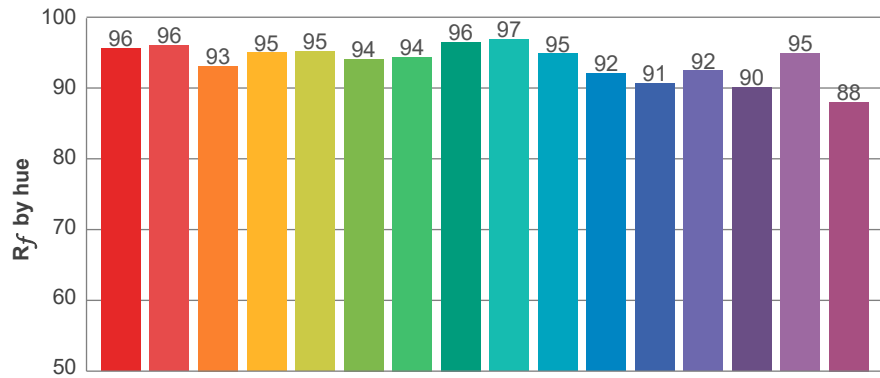
Fidelity index R_f

R_g 102.7

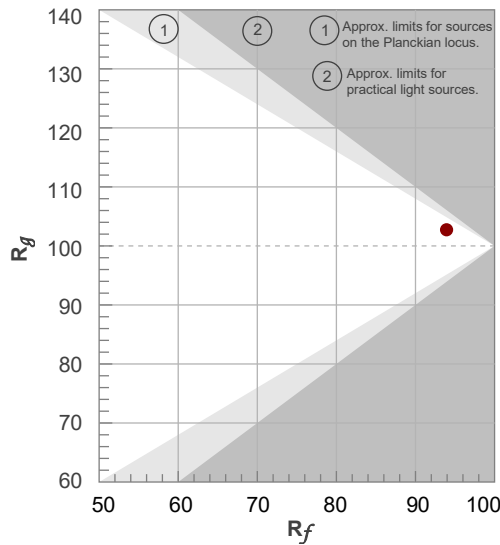
Gammut index R_g

TM30: 93.9

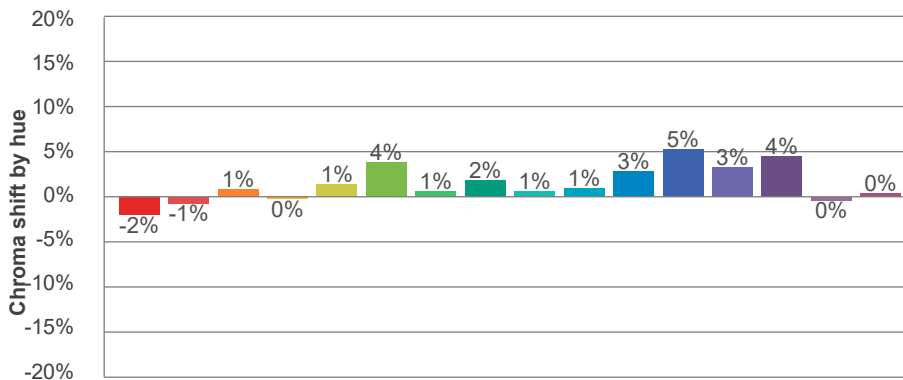
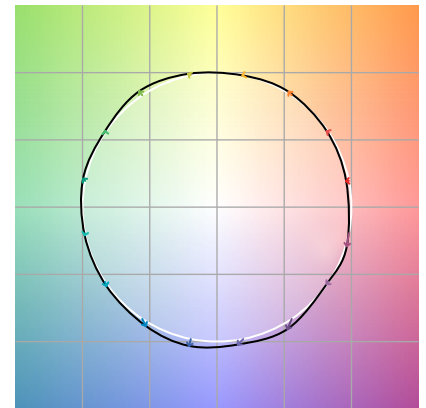
TM-30Color



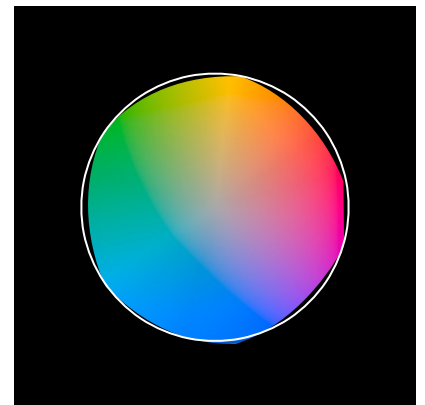
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	3%
4	95	0%	0%
5	95	1%	2%
6	94	4%	0%
7	94	1%	-1%
8	96	2%	-1%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	4%	-7%
15	95	0%	-2%
16	88	0%	-10%



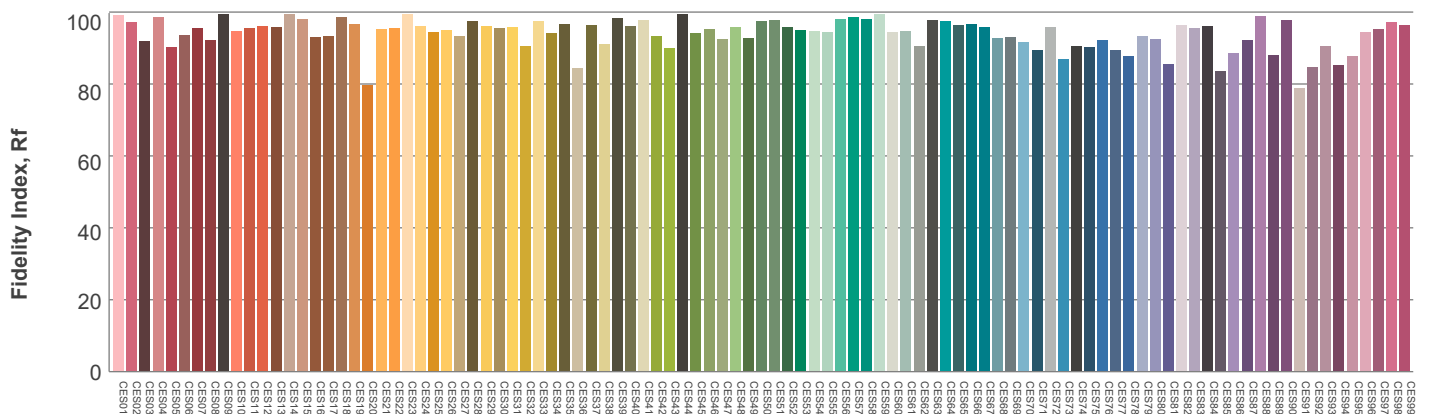
Color vector graphics



Color distortion

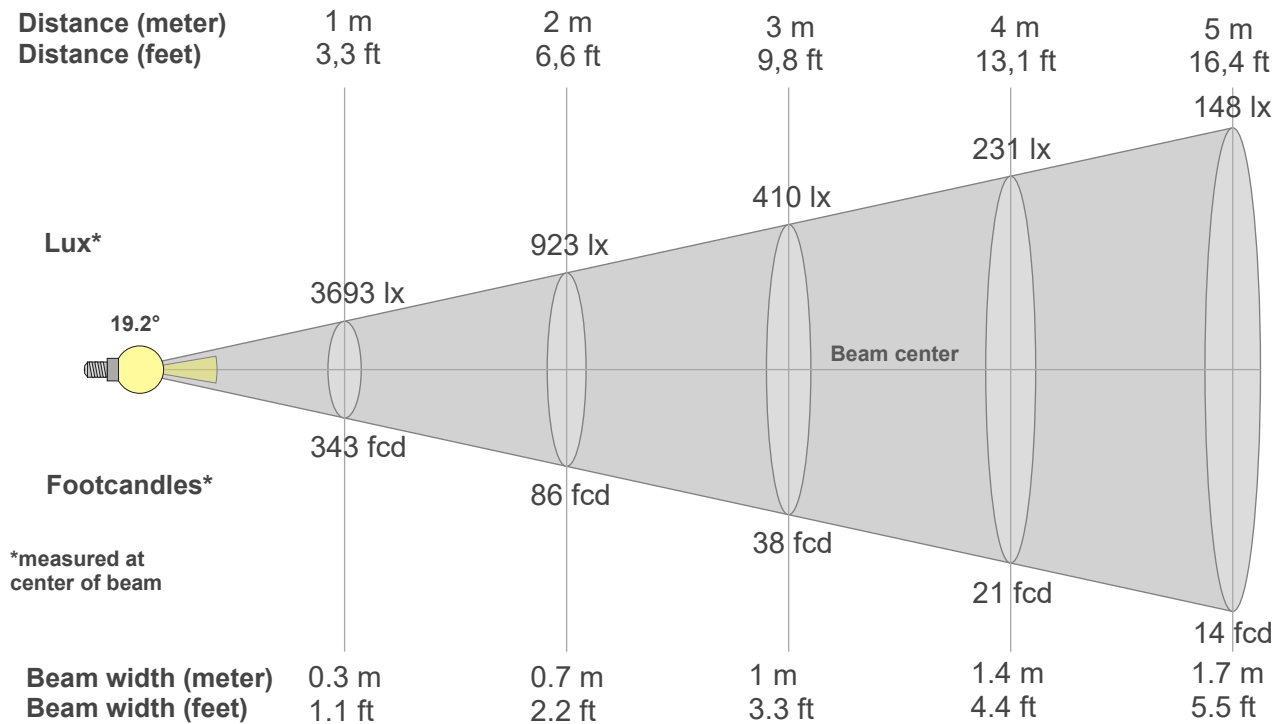


Hue bin



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
3693lx	923lx	410lx	231lx	148lx	103lx	75lx	58lx	46lx	37lx	31lx	26lx	22lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx
343.1fcd	85.8fcd	38.1fcd	21.4fcd	13.7fcd	9.5fcd	7fcd	5.4fcd	4.2fcd	3.4fcd	2.8fcd	2.4fcd	2fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	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°
3693	3693	3693	3559	3389	3176	2910	2640	2330	2021	1730	1446	1189	970	756	609	462	359	274	205
100%	100%	100%	96%	92%	86%	79%	71%	63%	55%	47%	39%	32%	26%	20%	16%	12%	10%	7%	6%

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°
3693	3693	3693	3559	3389	3176	2910	2640	2330	2021	1730	1446	1189	970	756	609	462	359	274	205
100%	100%	100%	96%	92%	86%	79%	71%	63%	55%	47%	39%	32%	26%	20%	16%	12%	10%	7%	6%

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°
3693	3693	3693	3559	3389	3176	2910	2640	2330	2021	1730	1446	1189	970	756	609	462	359	274	205
100%	100%	100%	96%	92%	86%	79%	71%	63%	55%	47%	39%	32%	26%	20%	16%	12%	10%	7%	6%

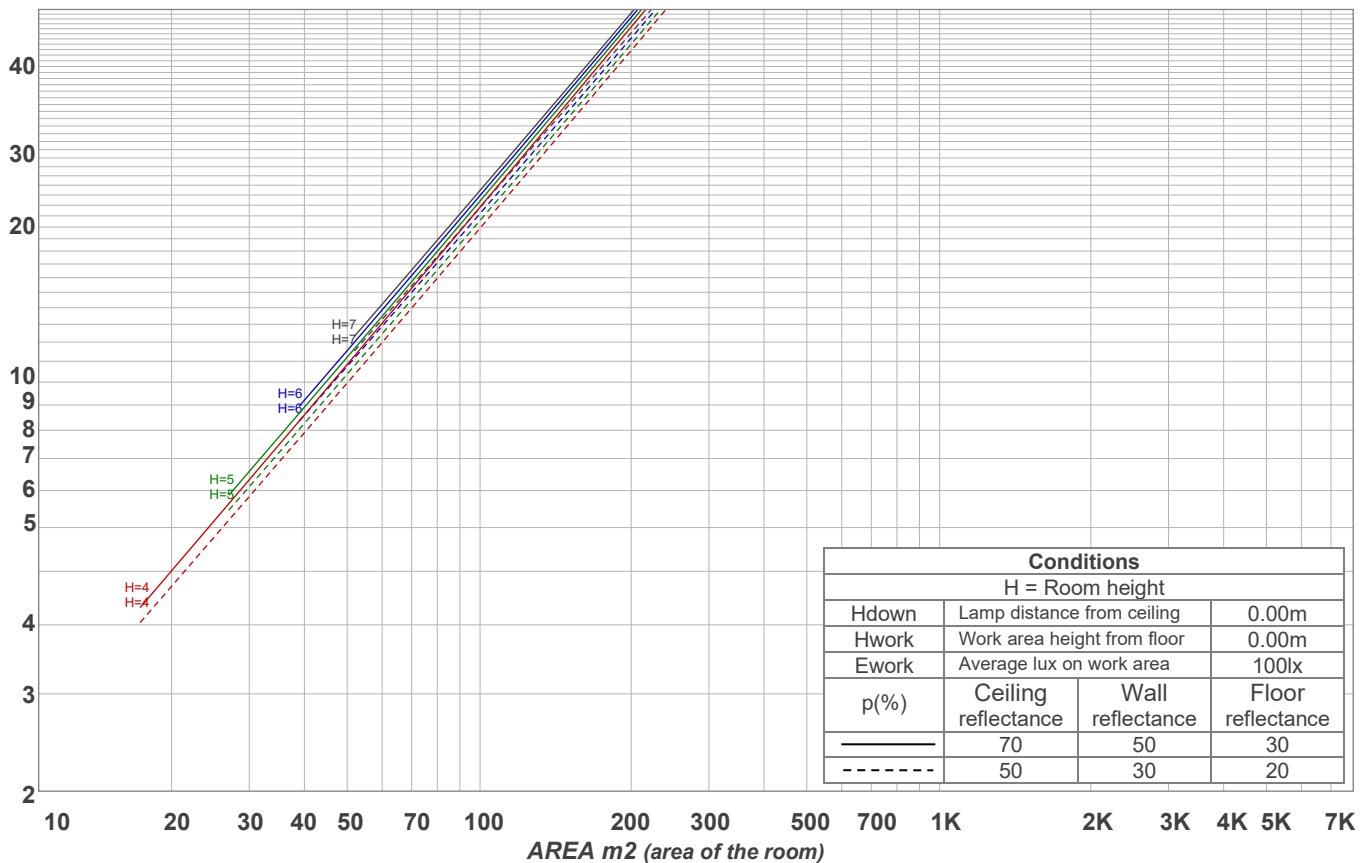
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3693	3693	3693	3559	3389	3176	2910	2640	2330	2021	1730	1446	1189	970	756	609	462	359	274	205
100%	100%	100%	96%	92%	86%	79%	71%	63%	55%	47%	39%	32%	26%	20%	16%	12%	10%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.2°	33.8°	45.2°	97.3%	96.4%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
255 lm	179 lm	26.3 lm	1.97 lm	1.75 lm	3.29 lm	4.66 lm	4.74 lm	3.57 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.