

Light efficiency:

51 Lumen/Watt

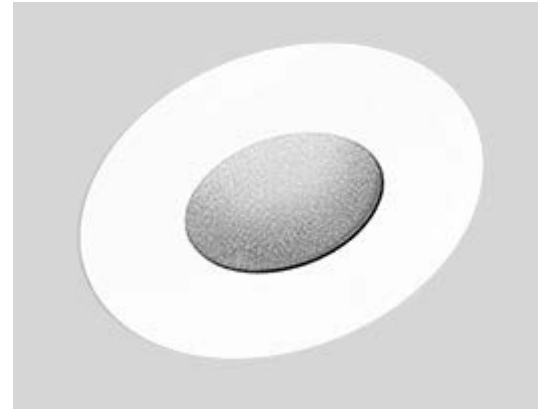
Output: 504 lm

Light quality:

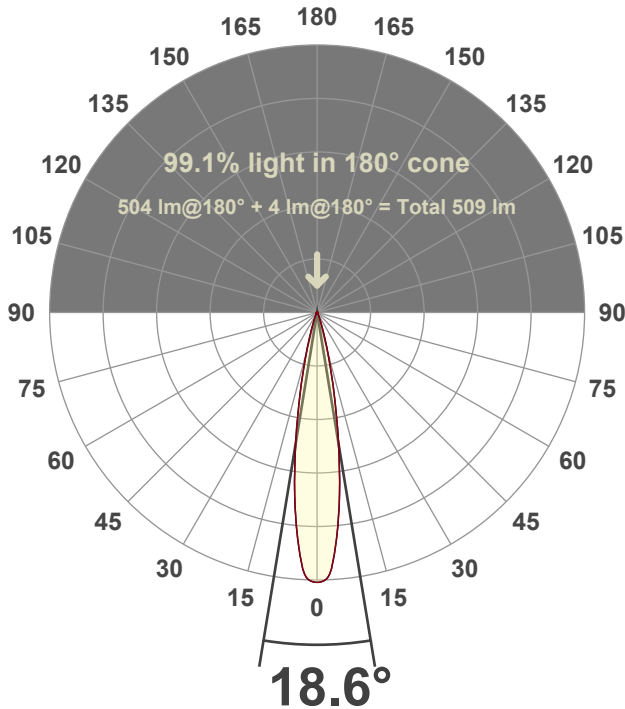
CRI: 96.2

Peak: 4060 cd

Power: 9.8 W



Beam angle



Test number:

CR4D-RA-FL-Z-T9-TW1840-15

Luminaire Model:

CORE 4" ROUND FLAT T9 1840 15°

Date and time:

8/21/2025 4:15:27 PM

LUM: 504

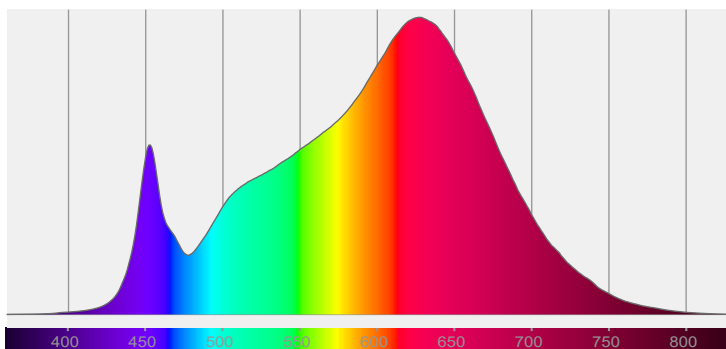
Primary Optic = 18.6°

2873 K

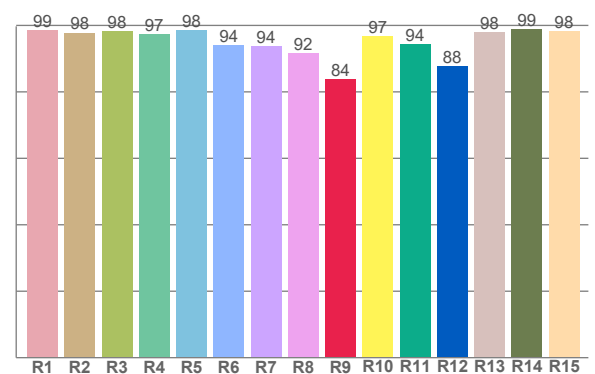
Measured at Mid-Point of Tuneable White CCT Range

*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	83.7	93.9	103.0	93.2	0.439	0.392	0.257	0.344	-0.0051

R_f 93.9

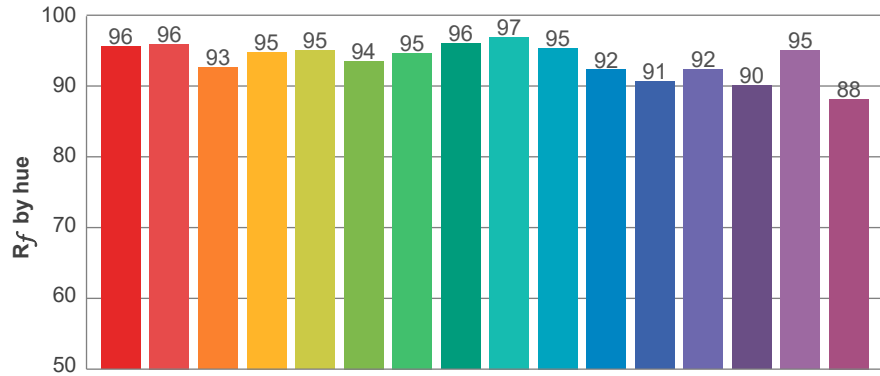
Fidelity index R_f

R_g 103.0

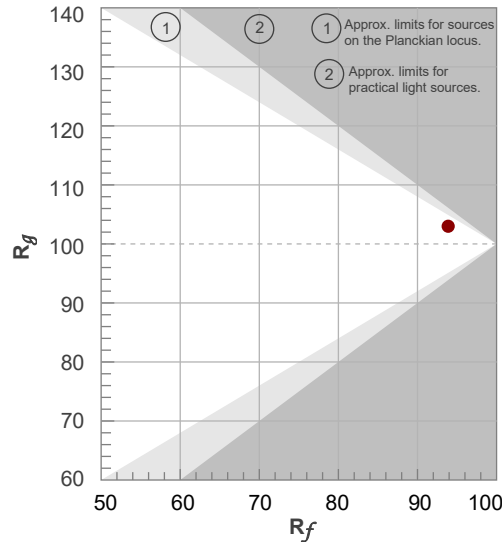
Gammut index R_g

TM30: 93.9

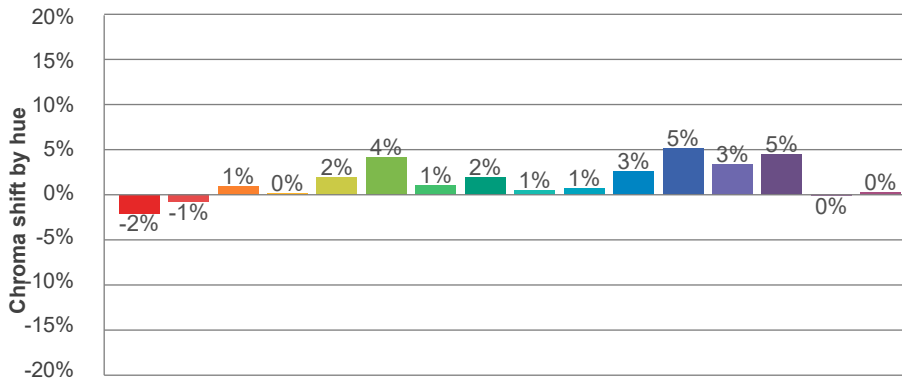
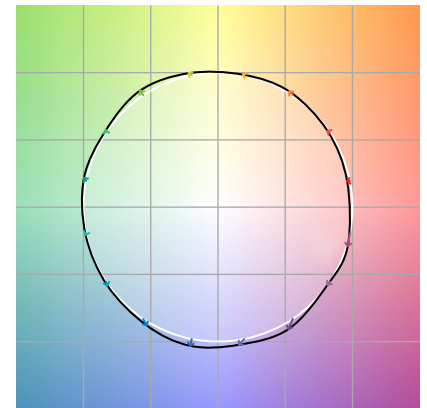
TM-30Color



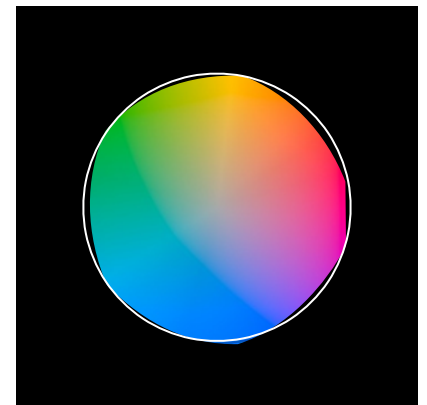
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	4%
4	95	0%	1%
5	95	2%	2%
6	94	4%	0%
7	95	1%	-1%
8	96	2%	-2%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-10%



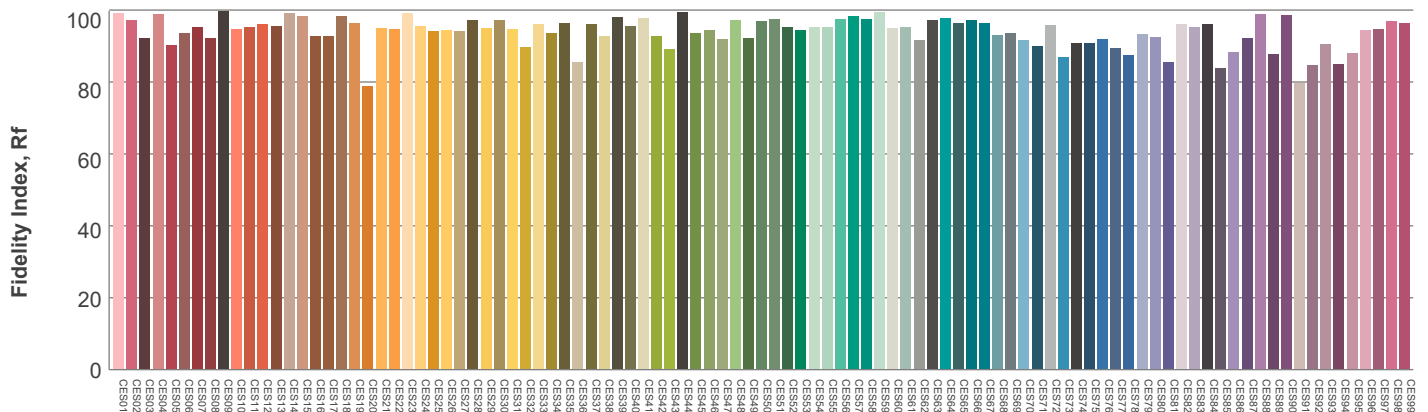
Color vector graphics



Color distortion

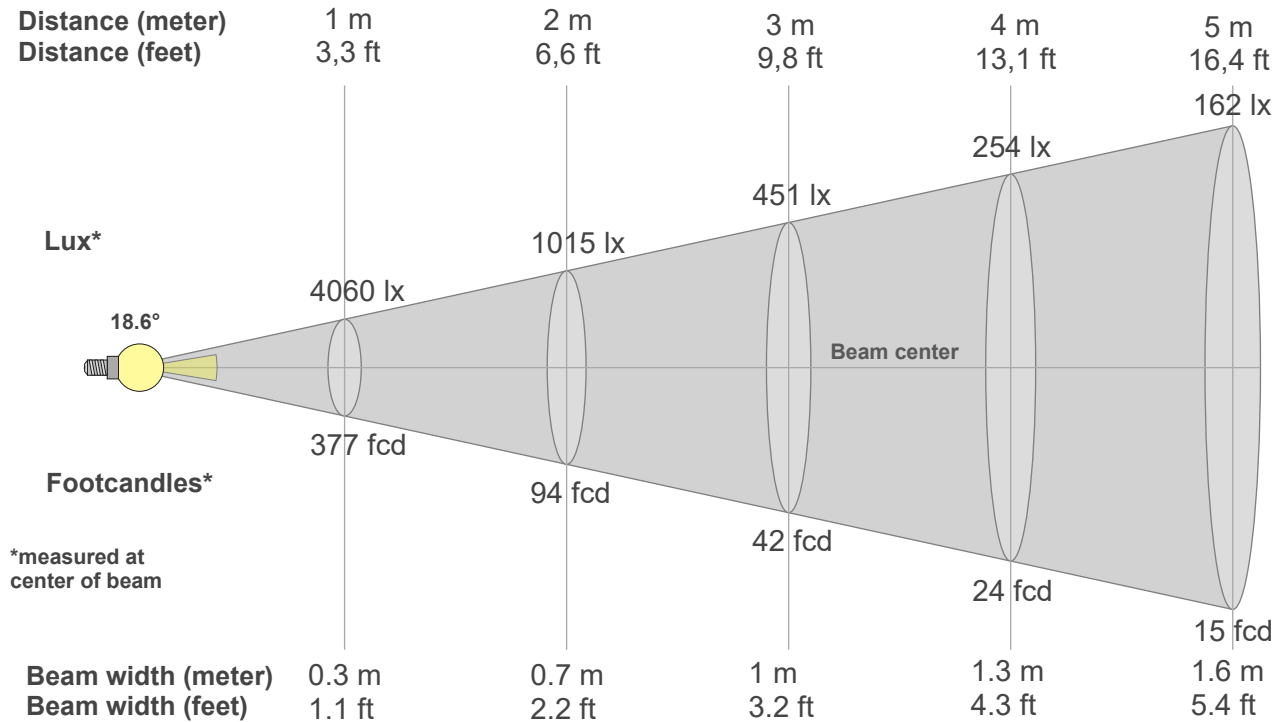


Hue bin



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
4060lx	1015lx	451lx	254lx	162lx	113lx	83lx	63lx	50lx	41lx	34lx	28lx	24lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx
377.2fcd	94.3fcd	41.9fcd	23.6fcd	15.1fcd	10.5fcd	7.7fcd	5.9fcd	4.7fcd	3.8fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	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°
4060	4060	4060	3888	3678	3428	3117	2807	2466	2125	1809	1512	1228	1009	790	632	493	375	298	220
100%	100%	100%	96%	91%	84%	77%	69%	61%	52%	45%	37%	30%	25%	19%	16%	12%	9%	7%	5%

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°
4060	4060	4060	3888	3678	3428	3117	2807	2466	2125	1809	1512	1228	1009	790	632	493	375	298	220
100%	100%	100%	96%	91%	84%	77%	69%	61%	52%	45%	37%	30%	25%	19%	16%	12%	9%	7%	5%

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°
4060	4060	4060	3888	3678	3428	3117	2807	2466	2125	1809	1512	1228	1009	790	632	493	375	298	220
100%	100%	100%	96%	91%	84%	77%	69%	61%	52%	45%	37%	30%	25%	19%	16%	12%	9%	7%	5%

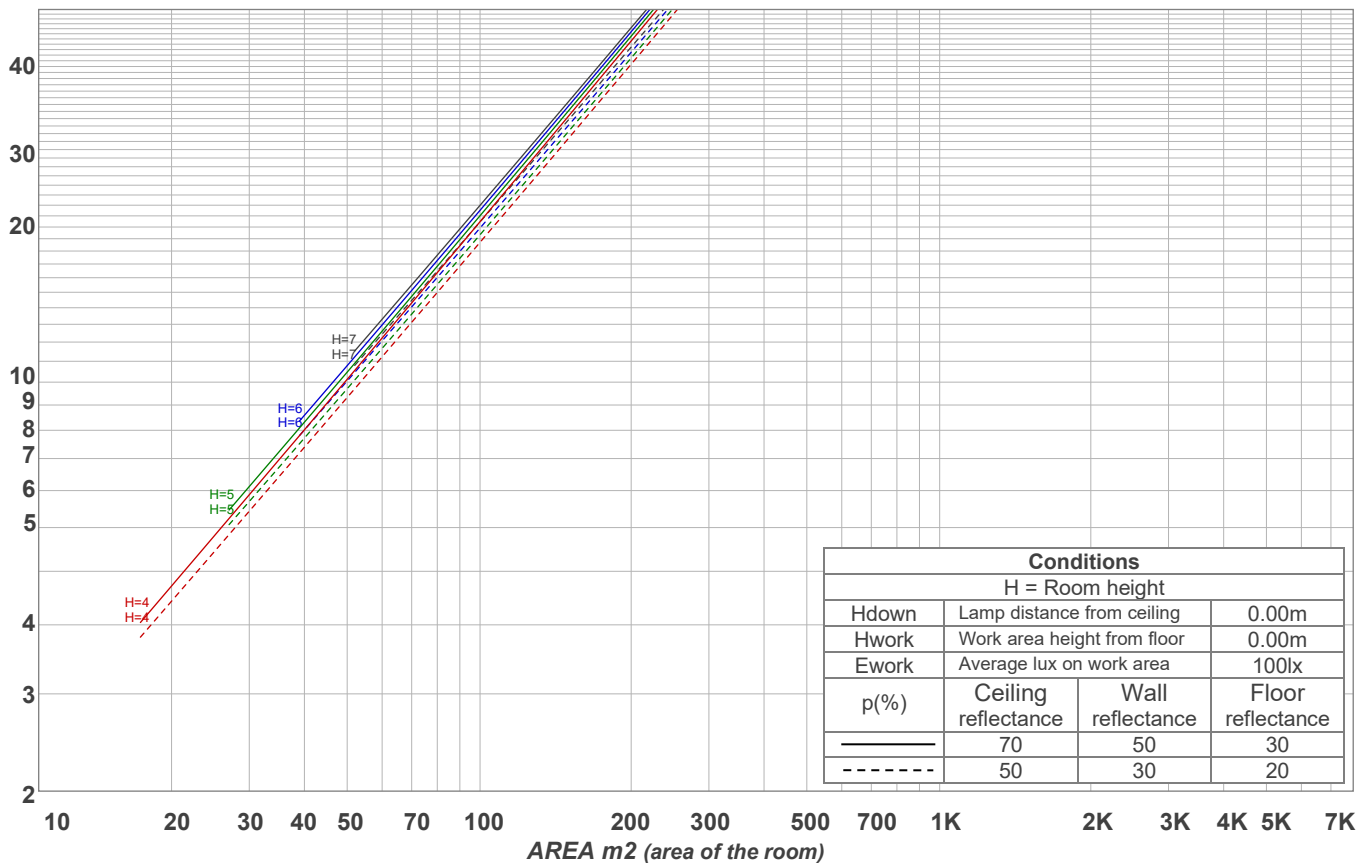
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
4060	4060	4060	3888	3678	3428	3117	2807	2466	2125	1809	1512	1228	1009	790	632	493	375	298	220
100%	100%	100%	96%	91%	84%	77%	69%	61%	52%	45%	37%	30%	25%	19%	16%	12%	9%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.6°	33.2°	45.6°	98.4%	97.9%

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	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91
5	104	99	95	93	103	98	95	92	97	94	92	95	93	91	94	92	90	89
6	102	97	93	90	101	96	93	90	95	92	90	93	91	89	92	90	88	88
7	100	94	91	88	99	94	90	88	93	90	88	92	89	87	91	89	87	86
8	98	92	89	87	97	92	89	86	91	88	86	90	88	86	89	87	85	85
9	96	91	87	85	95	90	87	85	89	87	85	89	86	84	88	86	84	83
10	94	89	86	83	94	89	85	83	88	85	83	87	85	83	87	84	83	82

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
272 lm	188 lm	31.3 lm	2.13 lm	1.32 lm	1.79 lm	2.12 lm	2.81 lm	3.37 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.