

Light efficiency:

52 Lumen/Watt

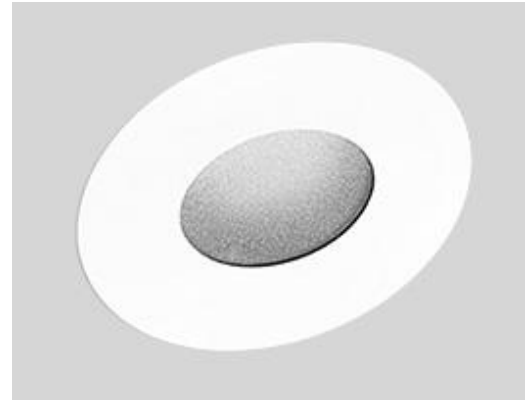
Output: 874 lm

Light quality:

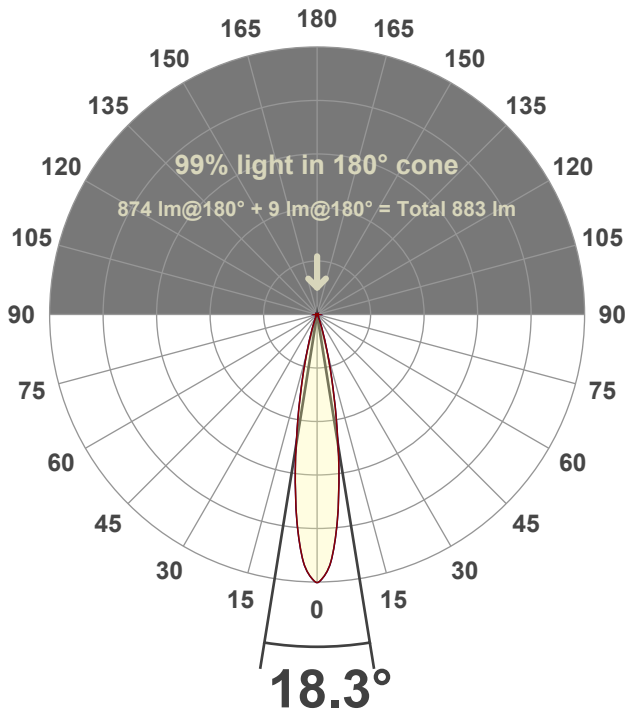
CRI: 96.0

Peak: 7256 cd

Power: 16.8 W



Beam angle



Test number:

CR4D-RA-FL-Z-T15-TW1840-15

Luminaire Model:

CORE 4" ROUND FLAT T15 1840 15°

Date and time:

8/20/2025 3:22:03 PM

LUM: 874

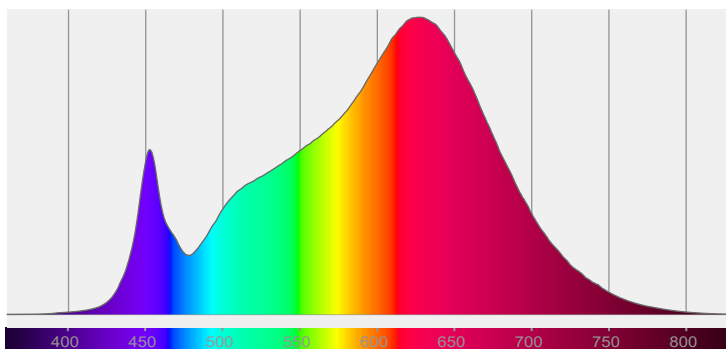
Primary Optic = 18.3°

2849 K

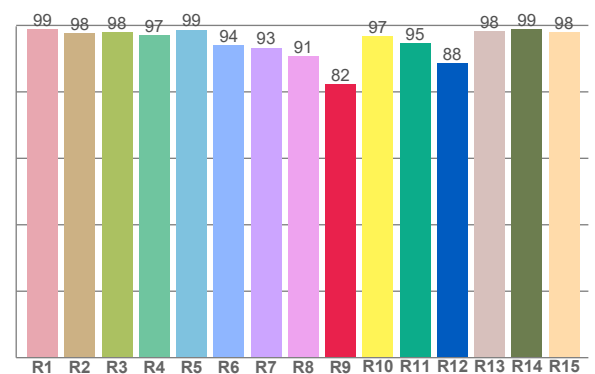
Measured at Mid-Point of Tuneable White CCT Range

*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	82.2	93.6	103.3	92.7	0.440	0.391	0.258	0.344	-0.0056

R_f 93.6

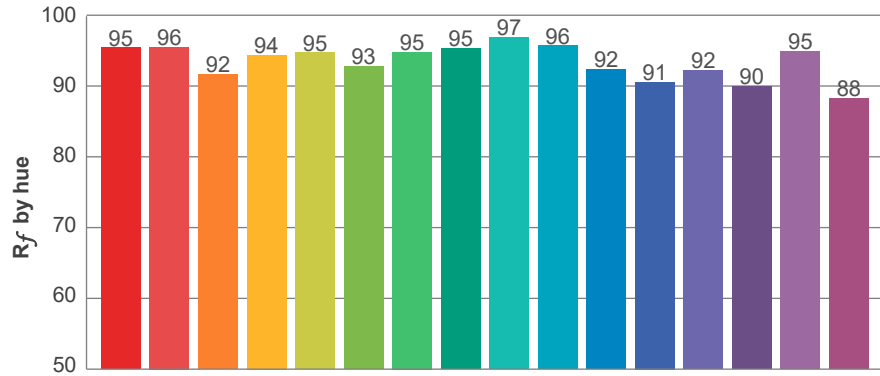
Fidelity index R_f

R_g 103.3

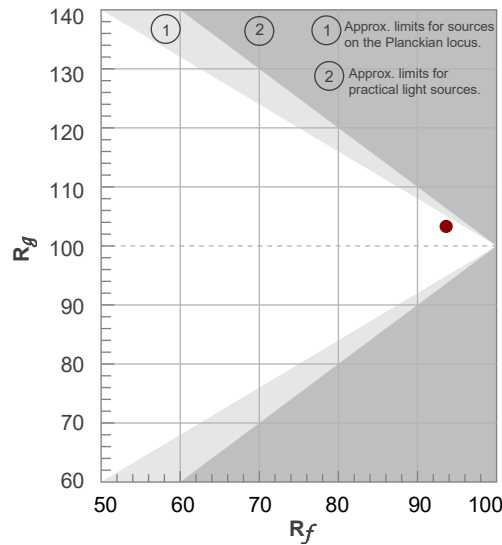
Gammut index R_g

TM30: 93.6

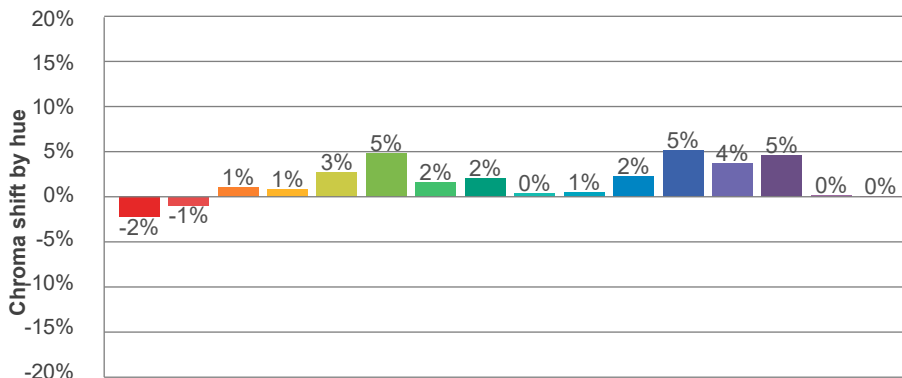
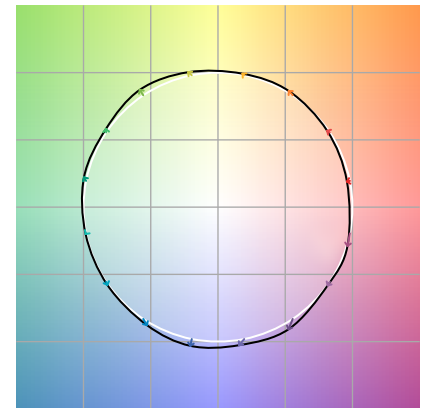
TM-30Color



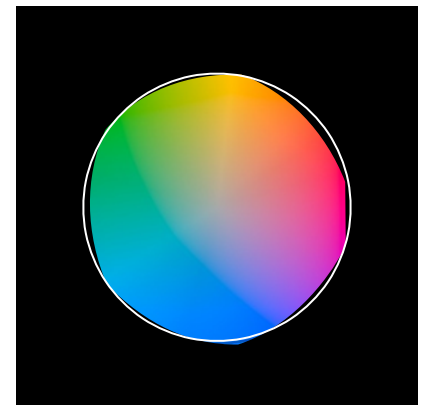
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	94	1%	2%
5	95	3%	2%
6	93	5%	0%
7	95	2%	-2%
8	95	2%	-2%
9	97	0%	0%
10	96	1%	2%
11	92	2%	5%
12	91	5%	0%
13	92	4%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-9%



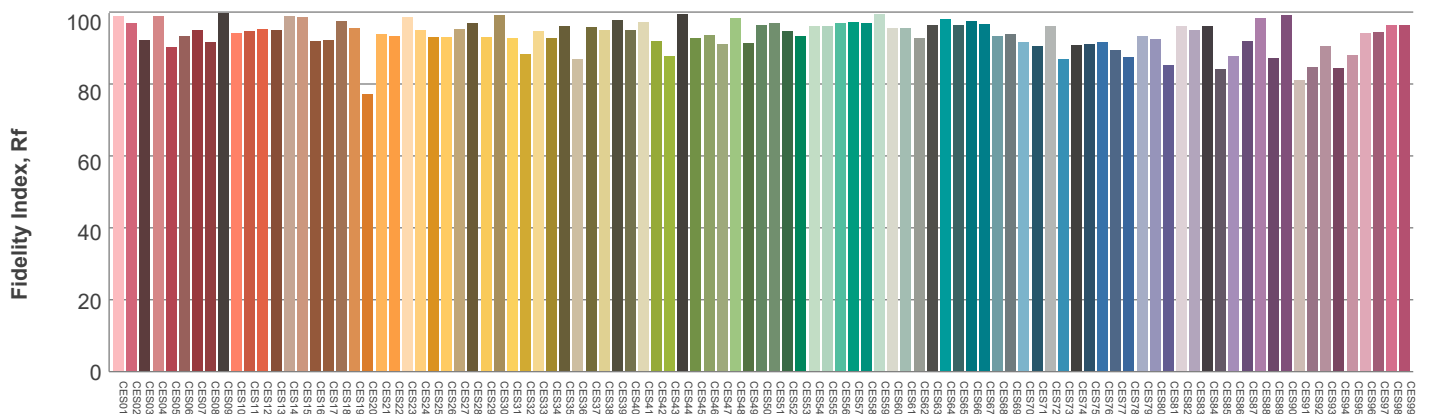
Color vector graphics



Color distortion

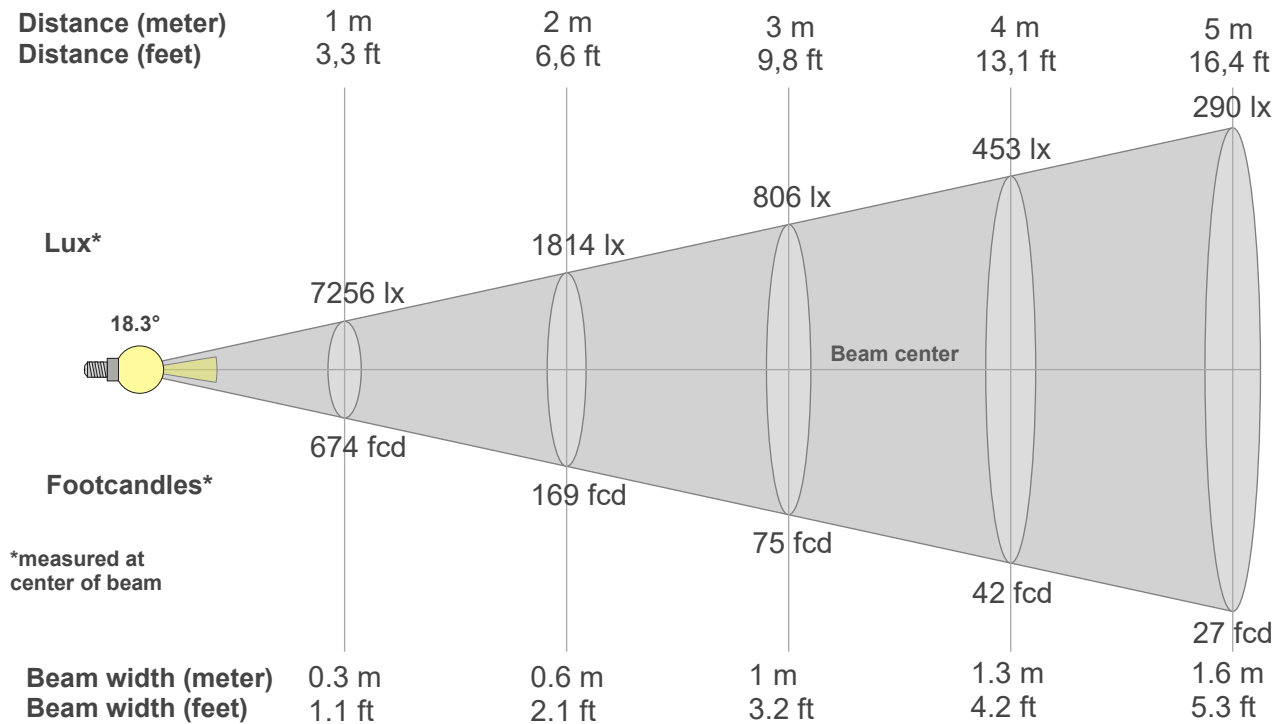


Hue bin



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
7256lx	1814lx	806lx	453lx	290lx	202lx	148lx	113lx	90lx	73lx	60lx	50lx	43lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx
674.1fcd	168.5fcd	74.9fcd	42.1fcd	27fcd	18.7fcd	13.8fcd	10.5fcd	8.3fcd	6.7fcd	5.6fcd	4.7fcd	4fcd	3.4fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd

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°
7256	7208	7003	6798	6387	5930	5425	4849	4272	3702	3132	2630	2175	1743	1423	1102	877	680	516	412
100%	99%	97%	94%	88%	82%	75%	67%	59%	51%	43%	36%	30%	24%	20%	15%	12%	9%	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°
7256	7208	7003	6798	6387	5930	5425	4849	4272	3702	3132	2630	2175	1743	1423	1102	877	680	516	412
100%	99%	97%	94%	88%	82%	75%	67%	59%	51%	43%	36%	30%	24%	20%	15%	12%	9%	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°
7256	7208	7003	6798	6387	5930	5425	4849	4272	3702	3132	2630	2175	1743	1423	1102	877	680	516	412
100%	99%	97%	94%	88%	82%	75%	67%	59%	51%	43%	36%	30%	24%	20%	15%	12%	9%	7%	6%

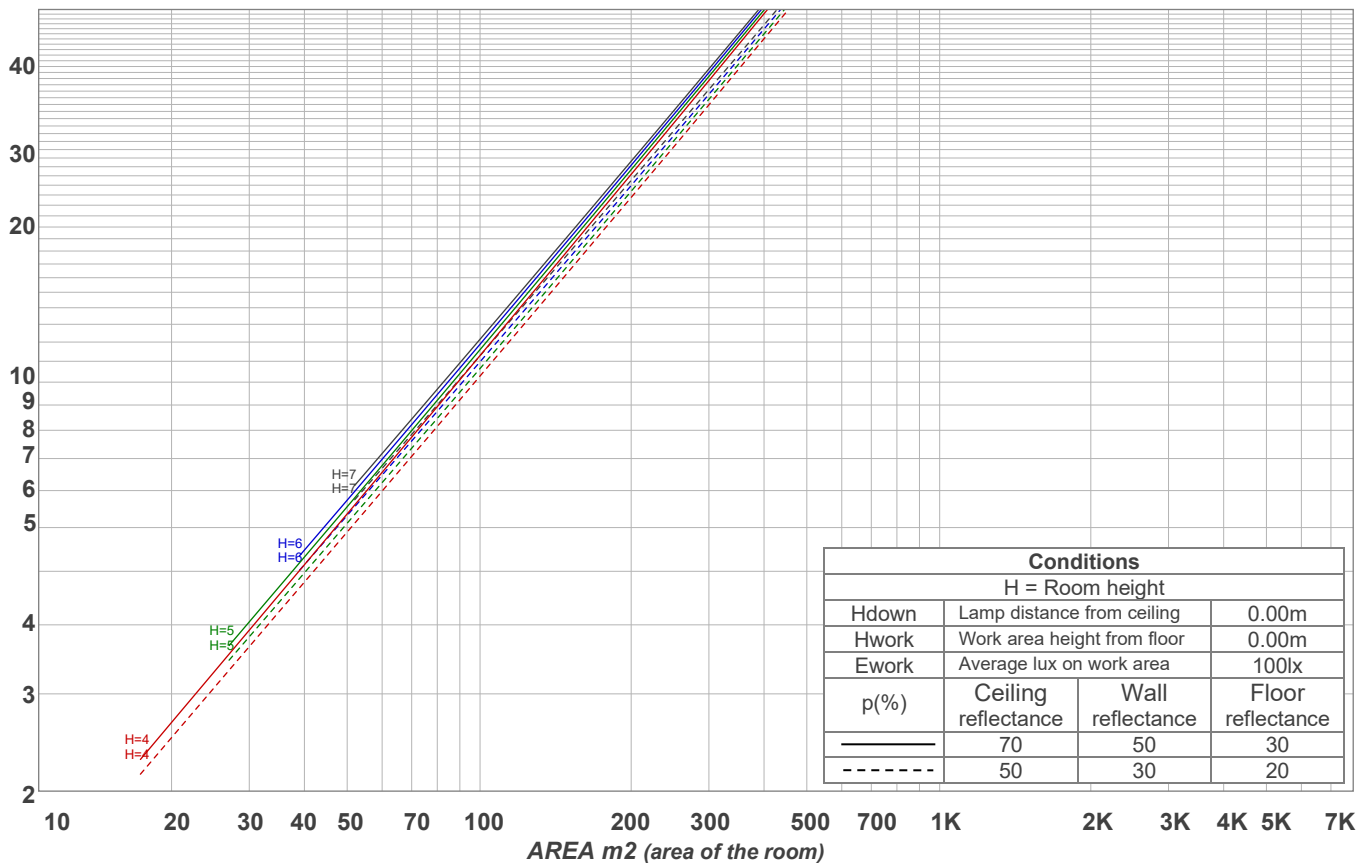
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7256	7208	7003	6798	6387	5930	5425	4849	4272	3702	3132	2630	2175	1743	1423	1102	877	680	516	412
100%	99%	97%	94%	88%	82%	75%	67%	59%	51%	43%	36%	30%	24%	20%	15%	12%	9%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.3°	33.5°	45.2°	98.9%	98.6%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
471 lm	330 lm	56.6 lm	3.63 lm	1.38 lm	1.77 lm	2.33 lm	3.17 lm	3.95 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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