

Light efficiency:

48 Lumen/Watt

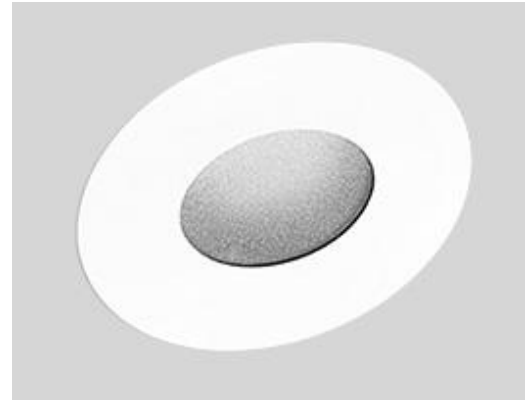
Output: 784 lm

Light quality:

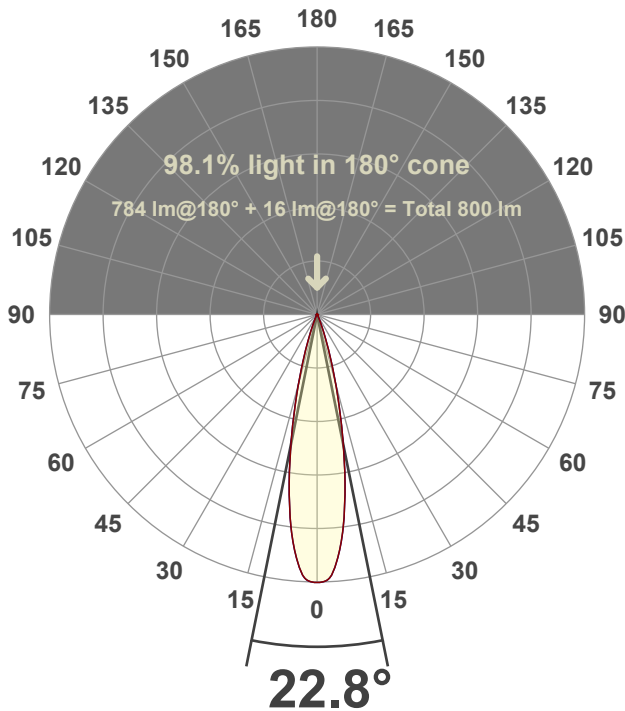
CRI: 96.1

Peak: 4755 cd

Power: 16.5 W



Beam angle



Test number:

CR4D-RA-FL-Z-T15-TW1840-24

Luminaire Model:

CORE 4" ROUND FLAT T15-1840-24°

Date and time:

8/26/2025 5:09:40 PM

LUM: 784

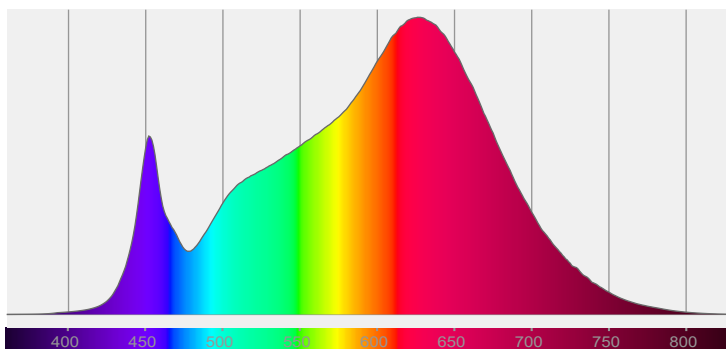
Primary Optic 24° = 22.8°

2929 K

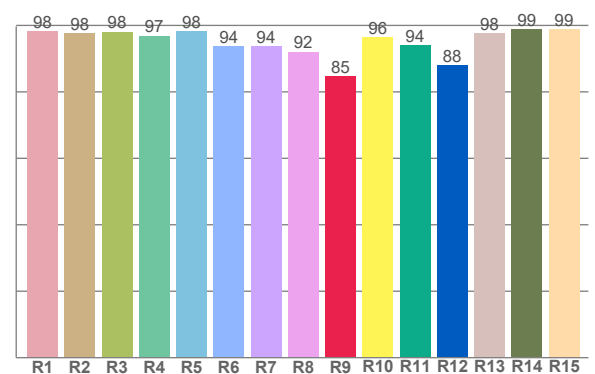
Measured at Mid-Point of Tuneable White CCT Range

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

Spectra



CRI: 96.1 (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
	96.1	84.8	93.9	103.4	93.1	0.434	0.389	0.255	0.343	-0.0058

R_f 93.9

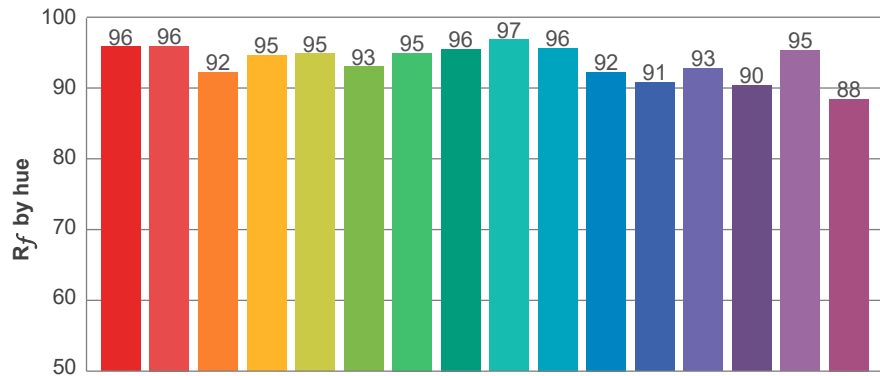
Fidelity index R_f

R_g 103.4

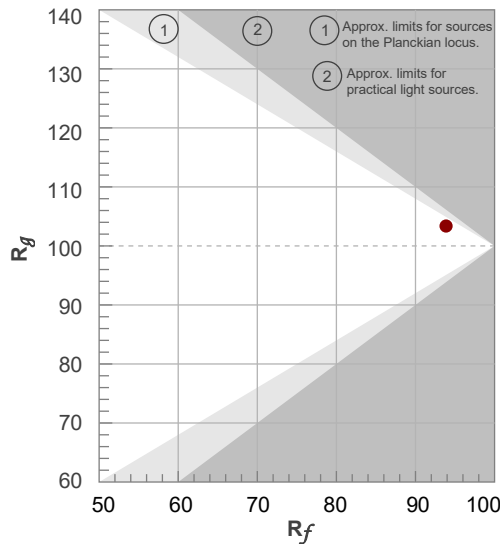
Gammut index R_g

TM30: 93.9

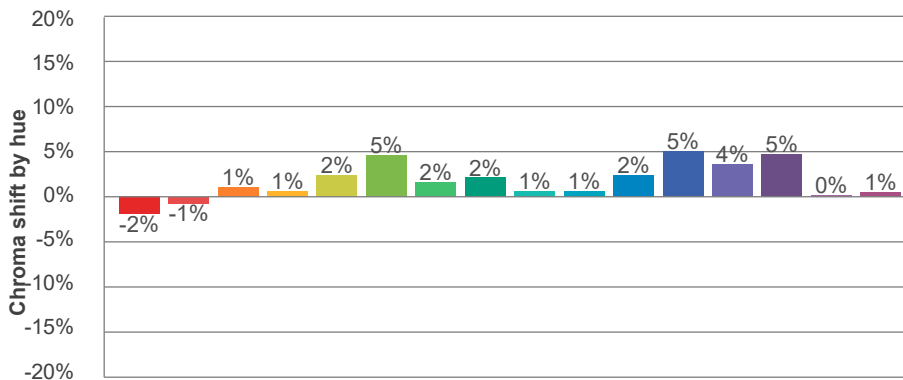
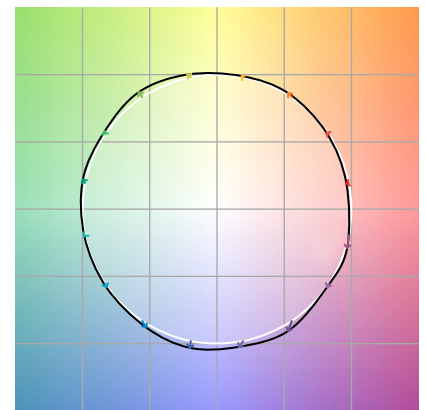
TM-30Color



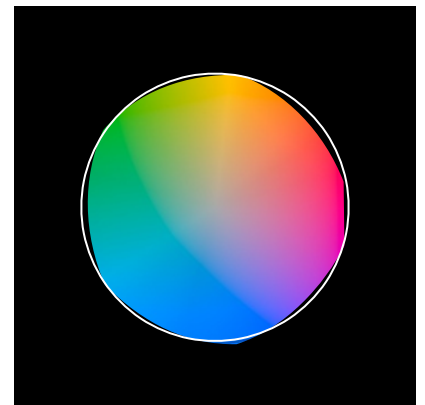
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	95	1%	1%
5	95	2%	2%
6	93	5%	0%
7	95	2%	-2%
8	96	2%	-2%
9	97	1%	1%
10	96	1%	2%
11	92	2%	5%
12	91	5%	0%
13	93	4%	-4%
14	90	5%	-6%
15	95	0%	-3%
16	88	1%	-9%



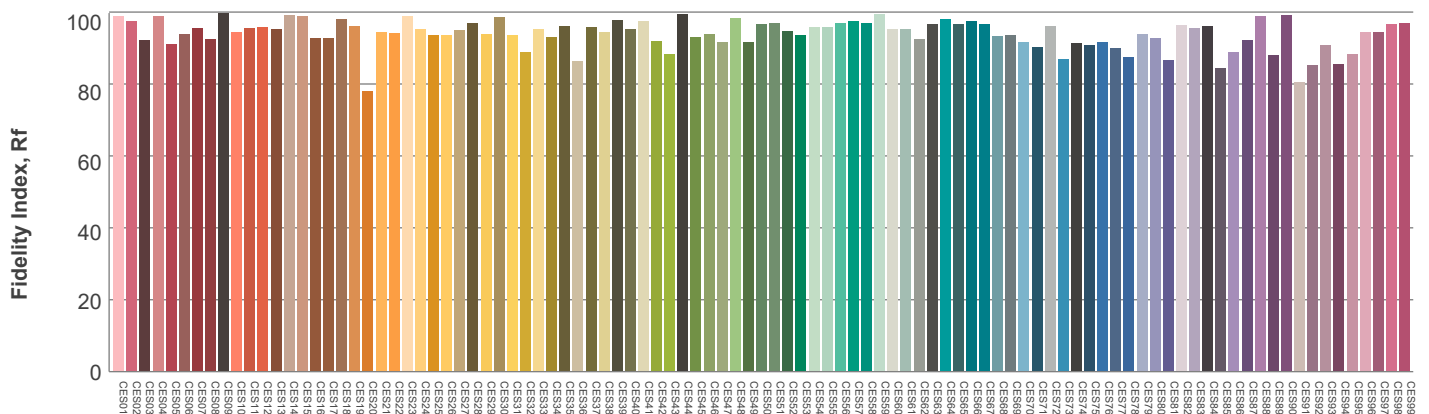
Color vector graphics



Color distortion

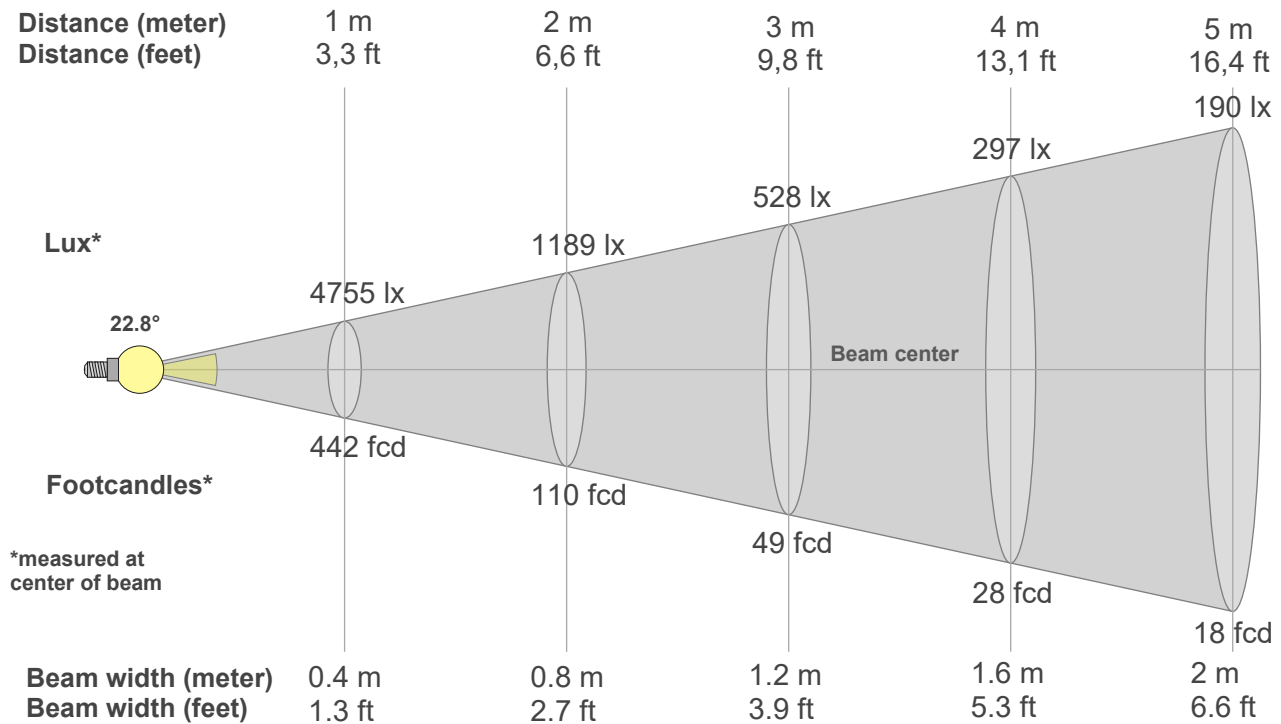


Hue bin



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
4755lx	1189lx	528lx	297lx	190lx	132lx	97lx	74lx	59lx	48lx	39lx	33lx	28lx	24lx	21lx	19lx	16lx	15lx	13lx	12lx
441.7fc	110.4fc	49.1fcd	27.6fcd	17.7fcd	12.3fcd	9fcd	6.9fcd	5.5fcd	4.4fcd	3.7fcd	3.1fcd	2.6fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd

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°
4755	4755	4755	4639	4502	4319	4076	3830	3508	3185	2850	2507	2171	1864	1558	1300	1055	837	662	487
100%	100%	100%	98%	95%	91%	86%	81%	74%	67%	60%	53%	46%	39%	33%	27%	22%	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°
4755	4755	4755	4639	4502	4319	4076	3830	3508	3185	2850	2507	2171	1864	1558	1300	1055	837	662	487
100%	100%	100%	98%	95%	91%	86%	81%	74%	67%	60%	53%	46%	39%	33%	27%	22%	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°
4755	4755	4755	4639	4502	4319	4076	3830	3508	3185	2850	2507	2171	1864	1558	1300	1055	837	662	487
100%	100%	100%	98%	95%	91%	86%	81%	74%	67%	60%	53%	46%	39%	33%	27%	22%	18%	14%	10%

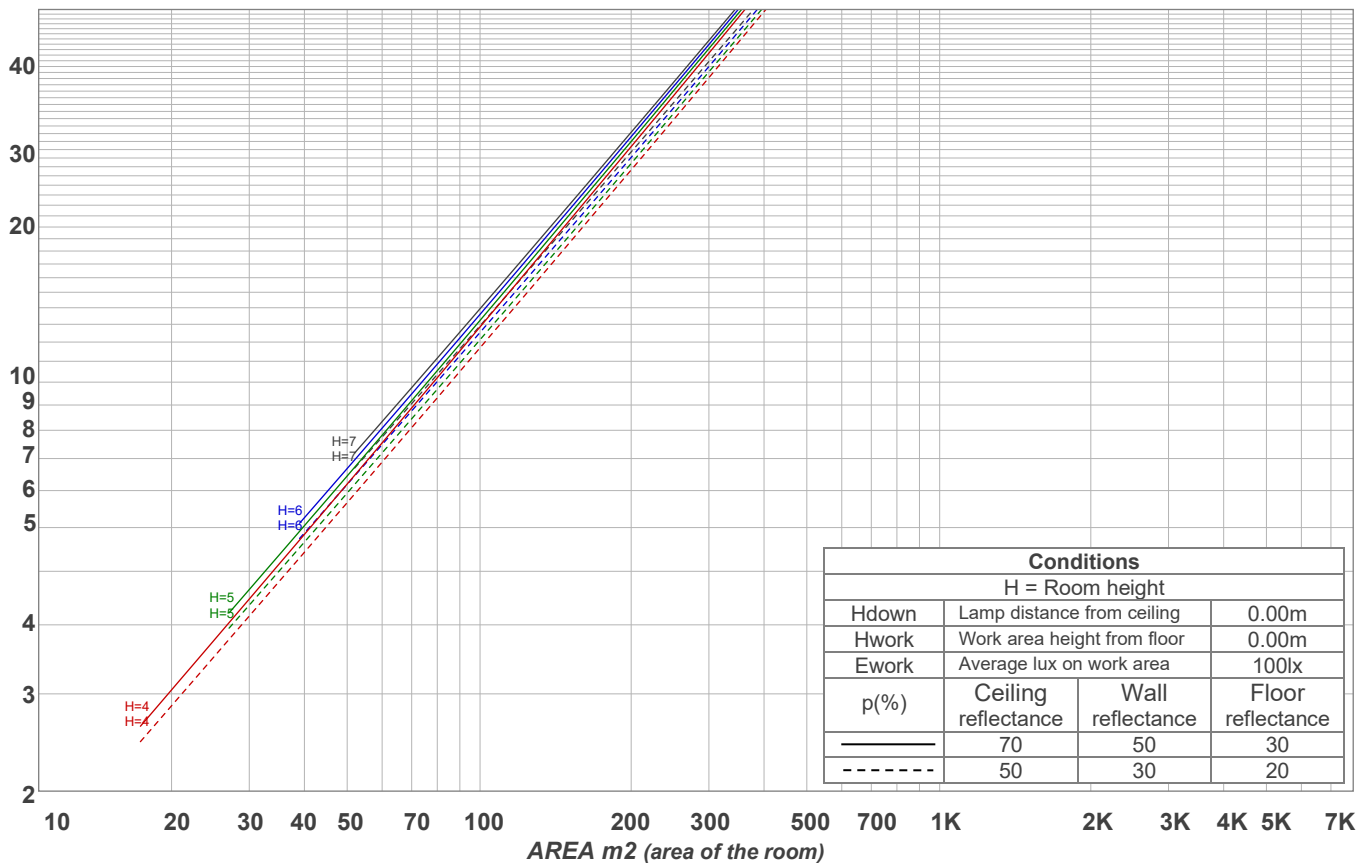
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
4755	4755	4755	4639	4502	4319	4076	3830	3508	3185	2850	2507	2171	1864	1558	1300	1055	837	662	487
100%	100%	100%	98%	95%	91%	86%	81%	74%	67%	60%	53%	46%	39%	33%	27%	22%	18%	14%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.8°	38.2°	47.3°	98.9%	98.7%

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	101	99	107	103	100	98	101	98	96	99	97	95	97	95	94	92
4	106	101	98	95	105	100	97	95	98	96	93	97	94	92	95	93	91	90
5	104	98	95	92	102	98	94	92	96	93	91	95	92	90	93	91	89	88
6	101	96	92	89	100	95	92	89	94	91	89	93	90	88	92	89	88	87
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	87	85	90	87	85	89	86	84	88	86	84	83
9	95	89	86	83	94	89	86	83	88	85	83	87	85	83	87	84	83	82
10	93	87	84	82	92	87	84	82	86	83	81	86	83	81	85	83	81	80

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
364 lm	359 lm	48.1 lm	2.61 lm	1.07 lm	1.23 lm	1.71 lm	2.49 lm	4.08 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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