

Light efficiency:

35 Lumen/Watt

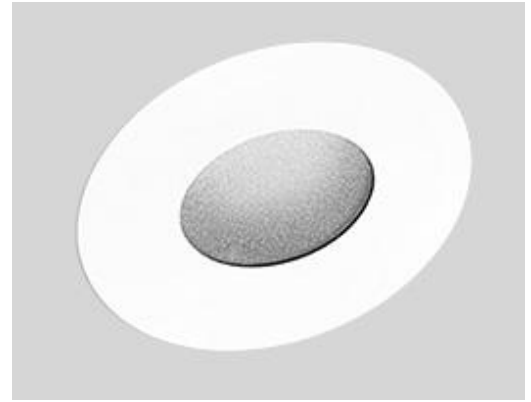
Output: 582 lm

Light quality:

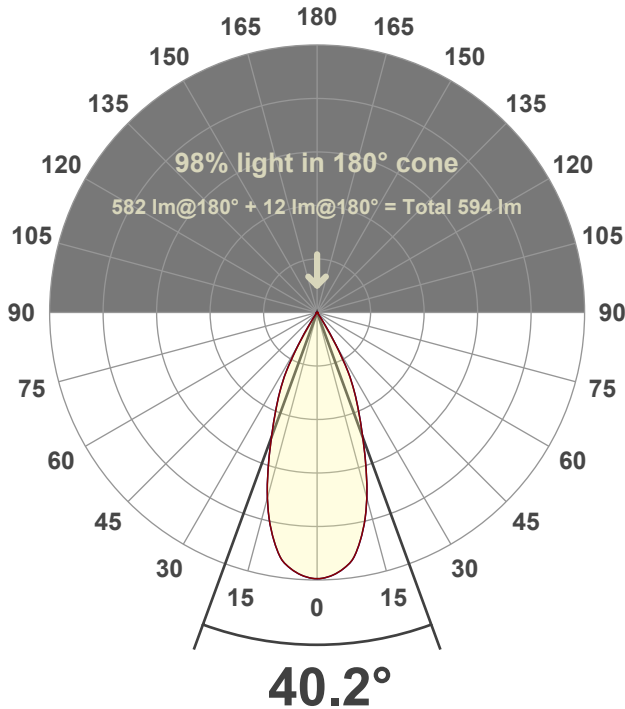
CRI: 96.0

Peak: 1259 cd

Power: 16.9 W



Beam angle



Test number:

CR4D-RA-FL-Z-T15-TW1840-50

Luminaire Model:

CORE 4" ROUND FLAT T15-1840-50°

Date and time:

8/20/2025 3:29:01 PM

LUM: 582

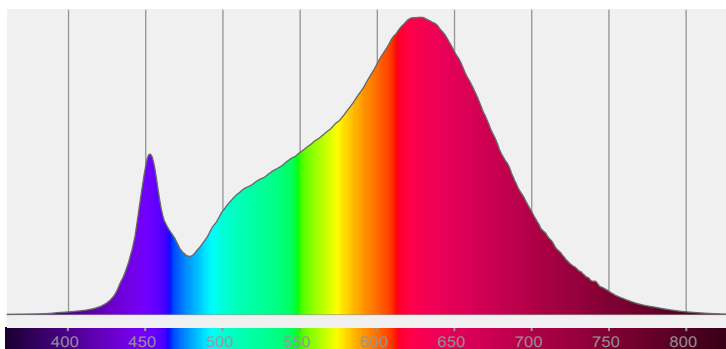
Primary Optic 50° = 40.2°

2818 K

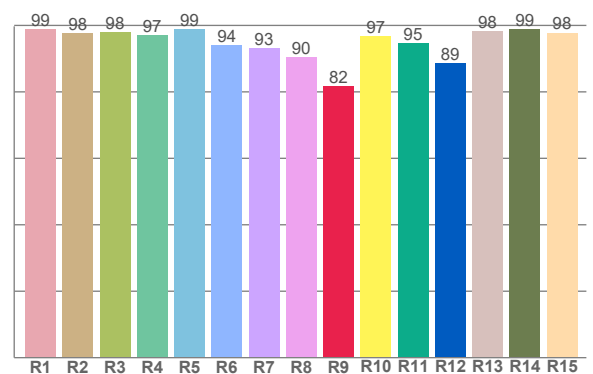
Measured at Mid-Point of Tuneable White CCT Range

*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	81.7	93.6	103.3	92.5	0.442	0.392	0.259	0.345	-0.0056

R_f 93.6

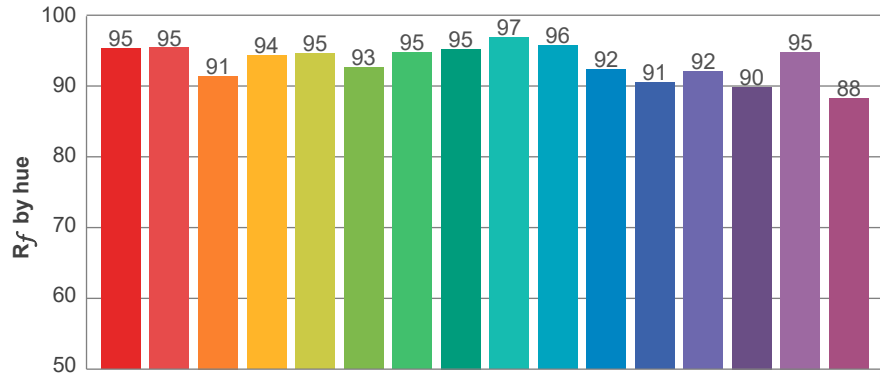
Fidelity index R_f

R_g 103.3

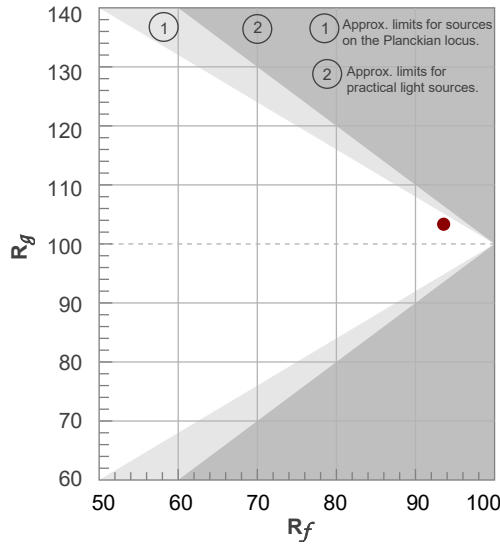
Gammut index R_g

TM30: 93.6

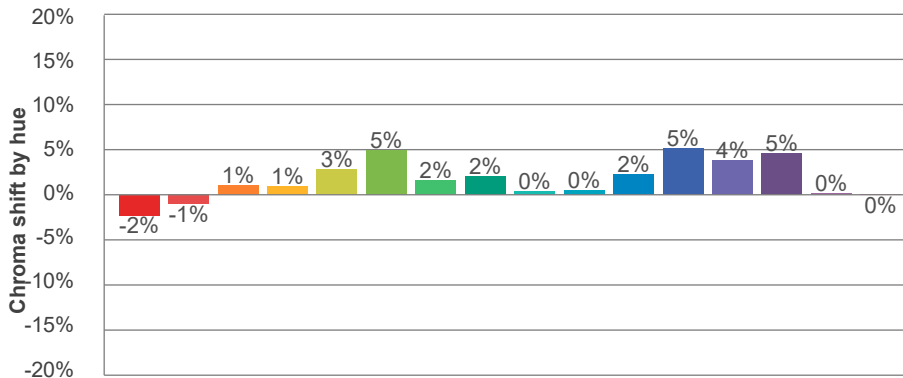
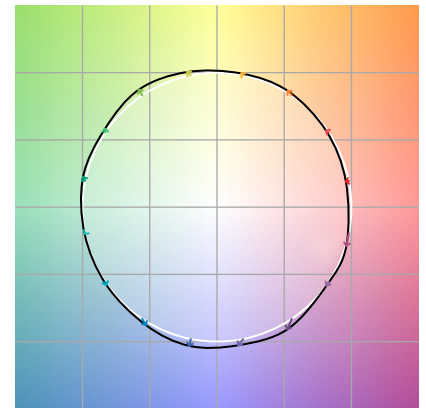
TM-30Color



Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	95	-1%	2%
3	91	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	0%	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%



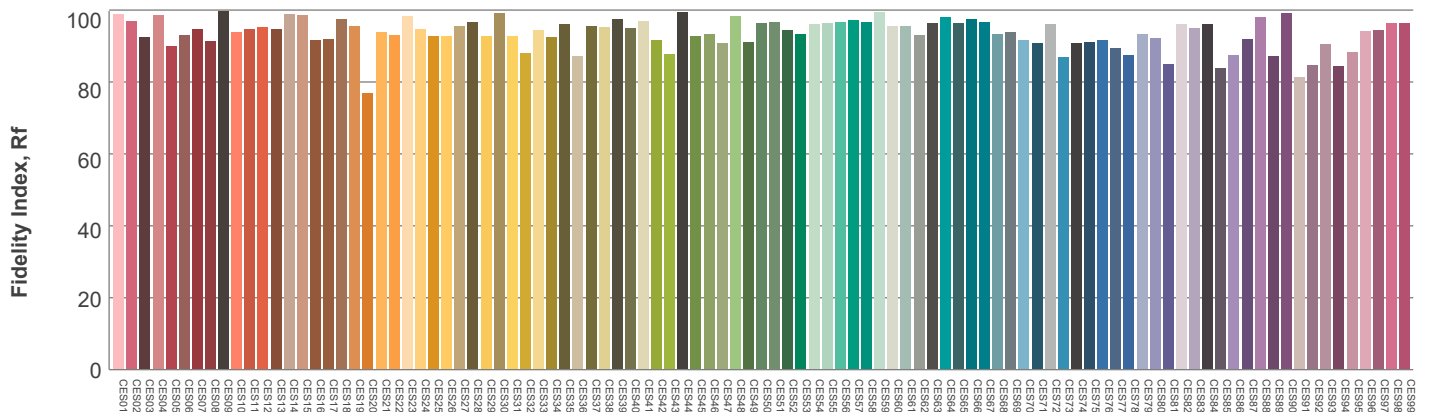
Color vector graphics



Color distortion

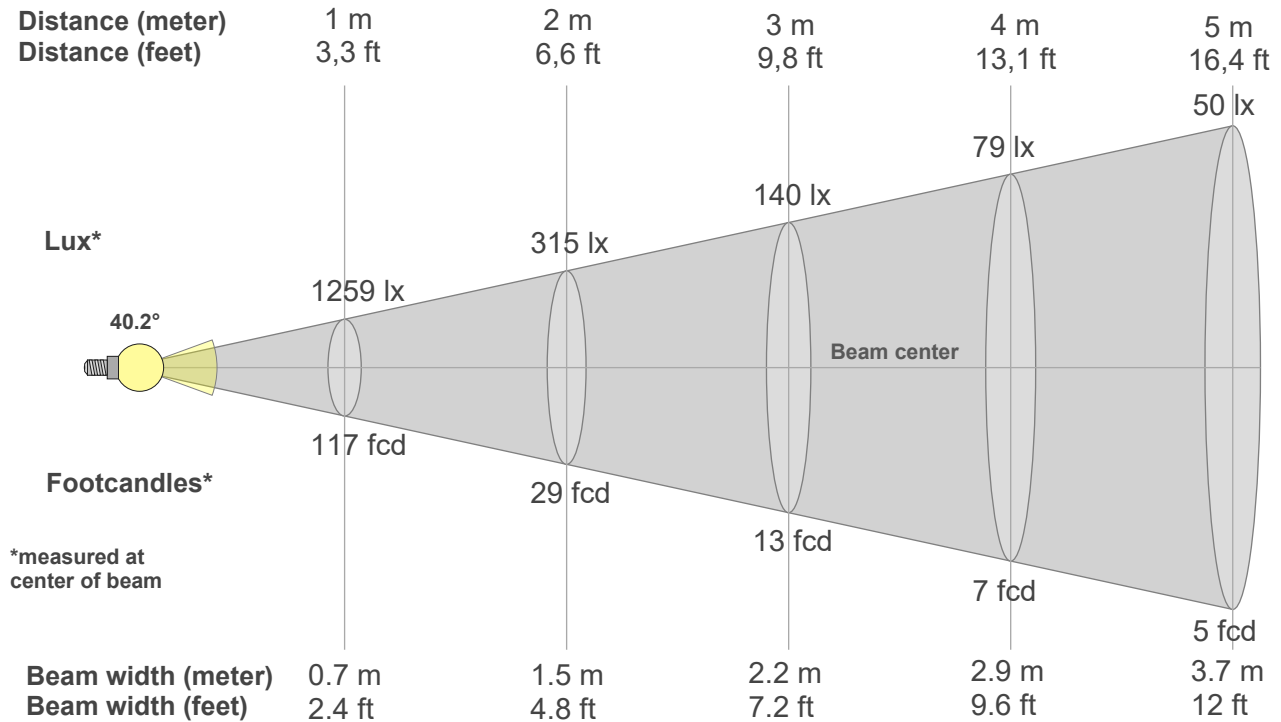


Hue bin



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
1259lx	315lx	140lx	79lx	50lx	35lx	26lx	20lx	16lx	13lx	10lx	9lx	7lx	6lx	6lx	5lx	4lx	4lx	3lx	3lx
116.9fcd	29.2fcd	13fcd	7.3fcd	4.7fcd	3.2fcd	2.4fcd	1.8fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1259	1254	1240	1217	1183	1122	1047	957	855	741	634	542	460	380	292	181	88	32	8	2
100%	100%	98%	97%	94%	89%	83%	76%	68%	59%	50%	43%	37%	30%	23%	14%	7%	3%	1%	0%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1259	1254	1240	1217	1183	1122	1047	957	855	741	634	542	460	380	292	181	88	32	8	2
100%	100%	98%	97%	94%	89%	83%	76%	68%	59%	50%	43%	37%	30%	23%	14%	7%	3%	1%	0%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1259	1254	1240	1217	1183	1122	1047	957	855	741	634	542	460	380	292	181	88	32	8	2
100%	100%	98%	97%	94%	89%	83%	76%	68%	59%	50%	43%	37%	30%	23%	14%	7%	3%	1%	0%

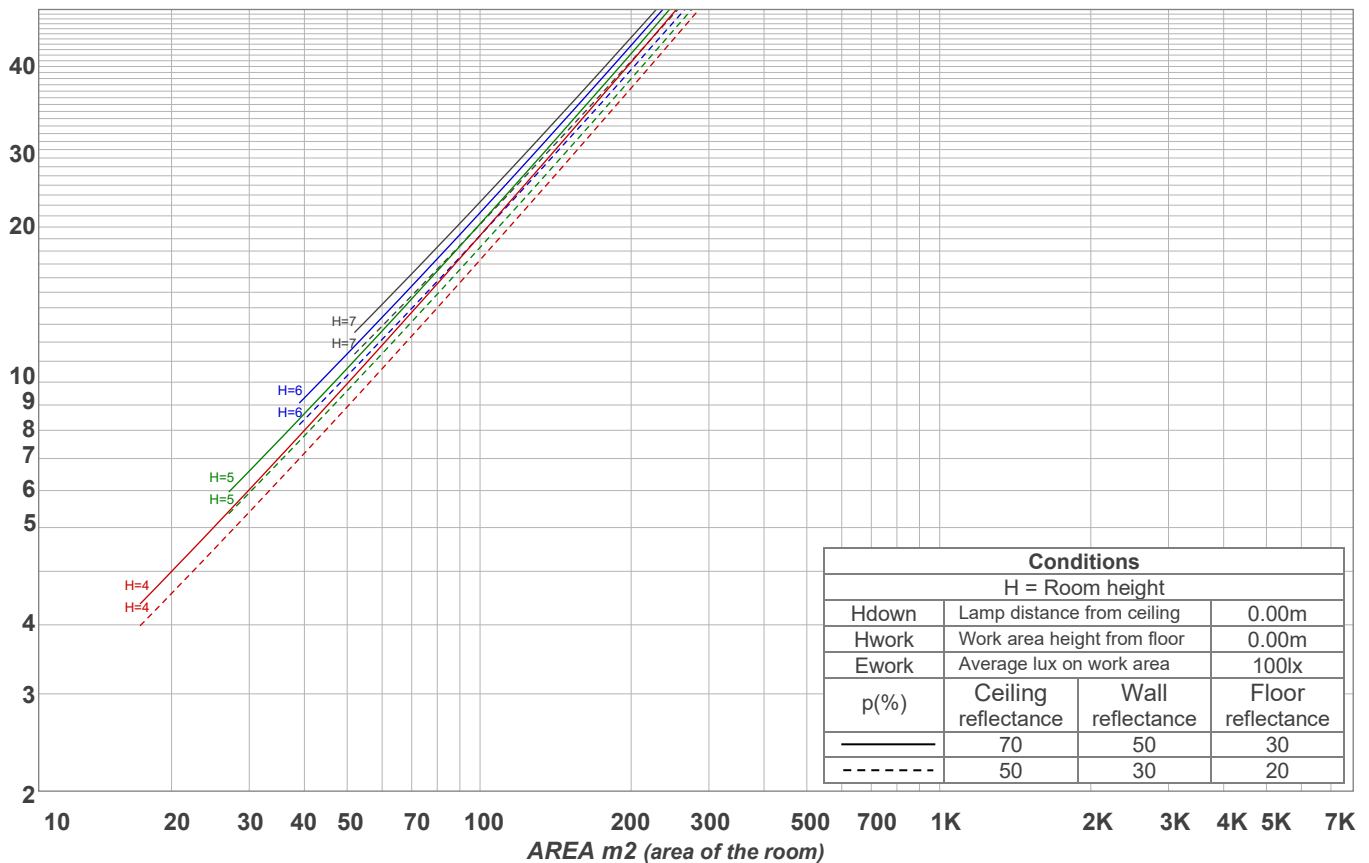
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1259	1254	1240	1217	1183	1122	1047	957	855	741	634	542	460	380	292	181	88	32	8	2
100%	100%	98%	97%	94%	89%	83%	76%	68%	59%	50%	43%	37%	30%	23%	14%	7%	3%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.2°	62.4°	68.1°	98.6%	98.2%

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	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	101	95	91	87	100	94	90	86	92	88	86	90	87	85	88	86	84	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67
10	81	73	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
114 lm	246 lm	186 lm	24.4 lm	1.27 lm	1.82 lm	1.82 lm	2.69 lm	3.55 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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