

Light efficiency:

66 Lumen/Watt

Output: 645 lm

Light quality:

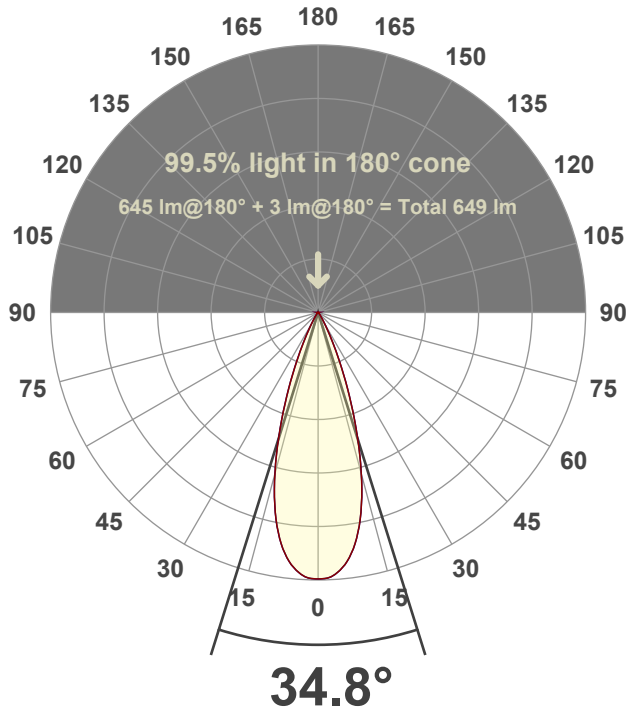
CRI: 96.2

Peak: 1835 cd

Power: 9.8 W



Beam angle



Test number:

CR4D-RA-DR-Z-T9-TW1840-36

Luminaire Model:

CORE 4" ROUND DEEP REGRESS T9-1840-36°

Date and time:

8/20/2025 9:56:09 AM

LUM: 645

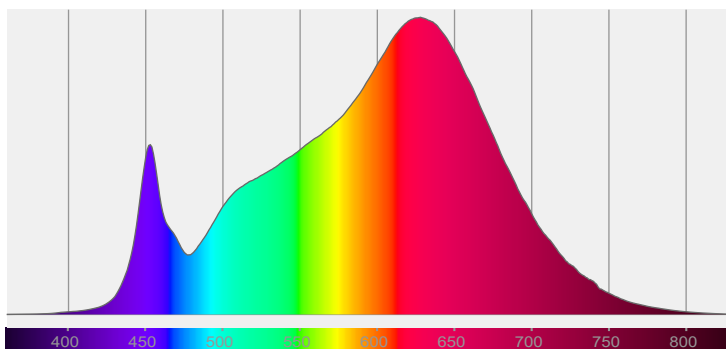
Primary Optic 36° = 34.8°

2868 K

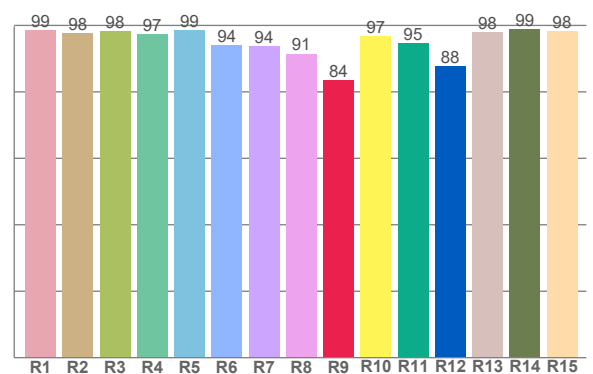
Measured at Mid-Point of Tuneable White CCT Range

*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	83.6	93.8	103.0	93.1	0.439	0.392	0.257	0.344	-0.0052

R_f 93.8

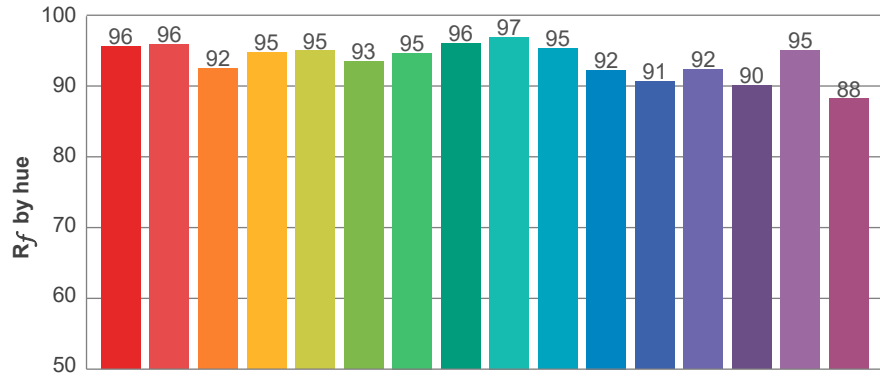
Fidelity index R_f

R_g 103.0

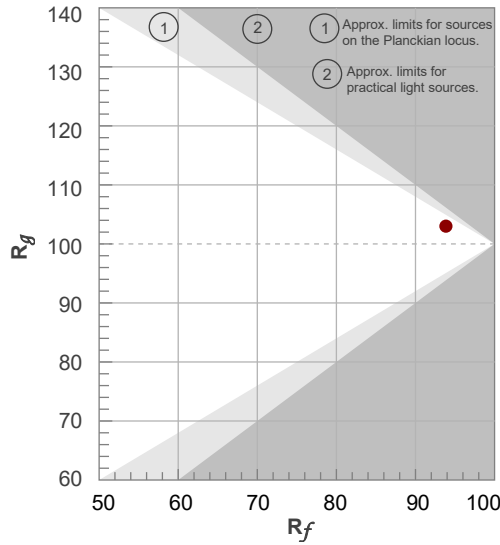
Gammut index R_g

TM30: 93.8

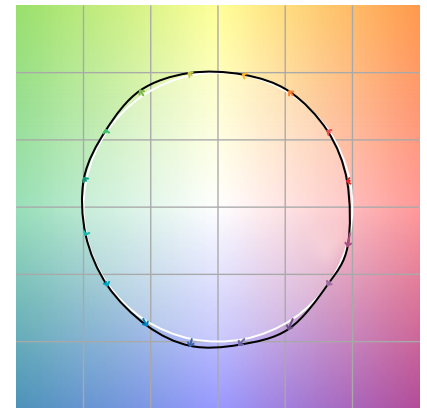
TM-30Color



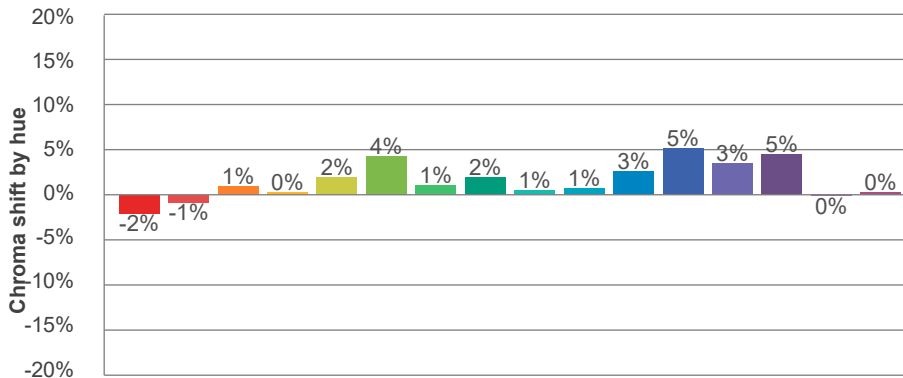
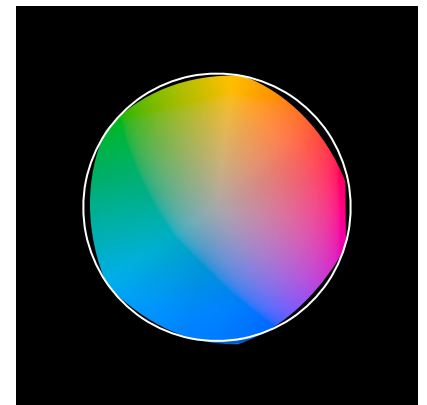
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	95	0%	1%
5	95	2%	2%
6	93	4%	0%
7	95	1%	-1%
8	96	2%	-2%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-9%



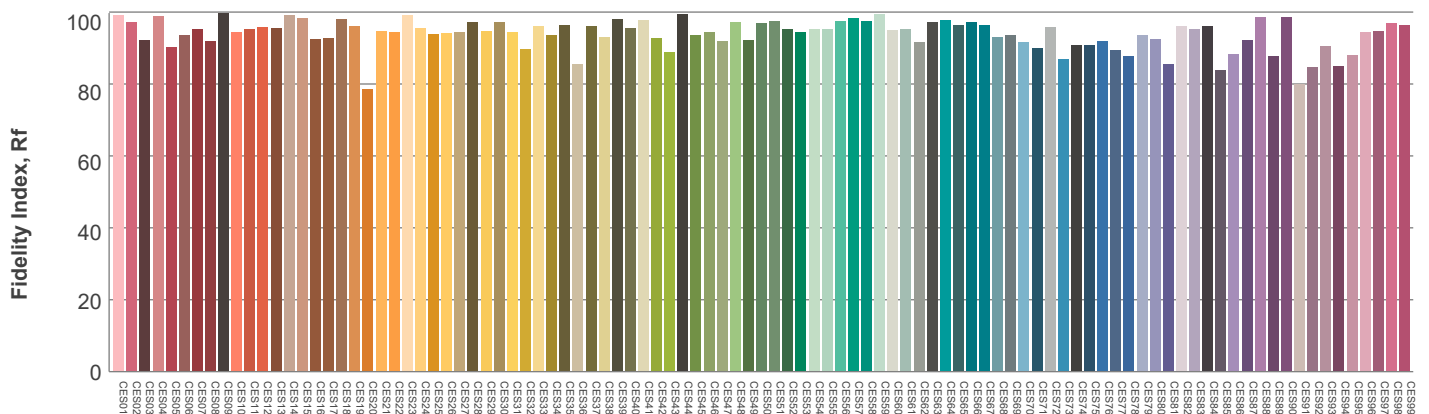
Color vector graphics



Color distortion

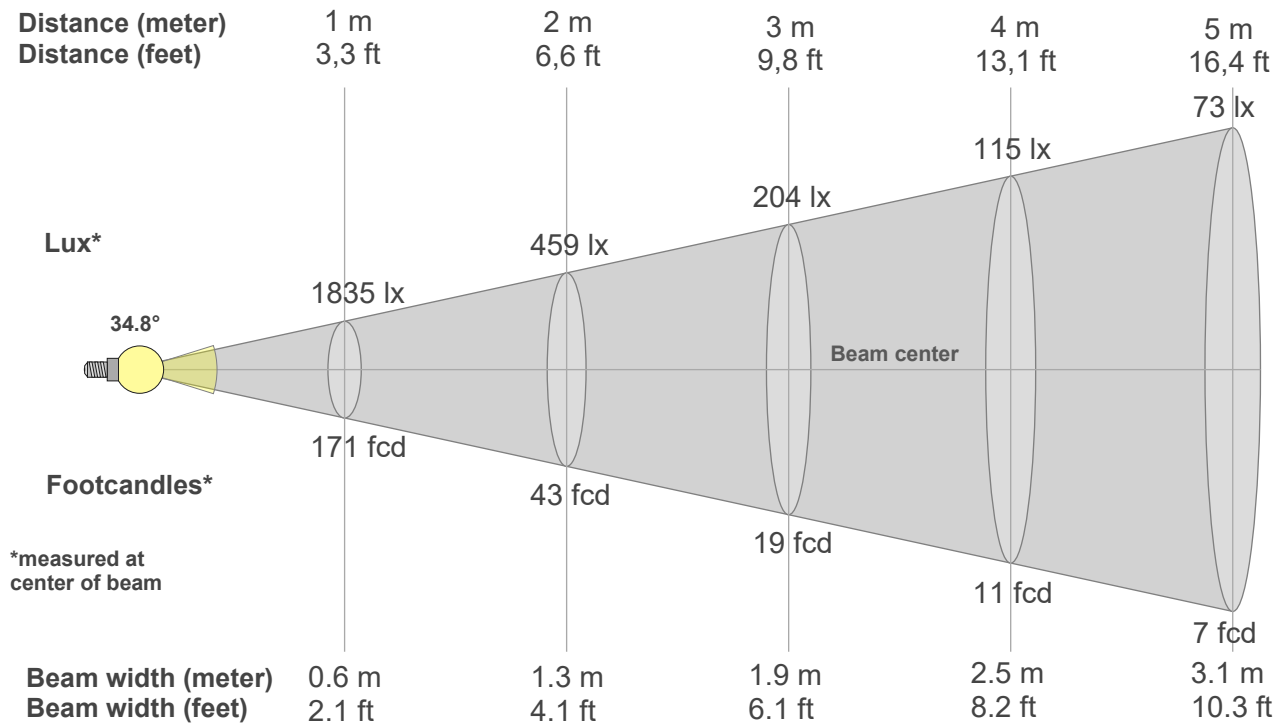


Hue bin



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
1835lx	459lx	204lx	115lx	73lx	51lx	37lx	29lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
170.5fcd	42.6fcd	18.9fcd	10.7fcd	6.8fcd	4.7fcd	3.5fcd	2.7fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1835	1833	1803	1749	1667	1556	1415	1247	1054	856	667	495	347	228	148	95	61	41	29	20
100%	100%	98%	95%	91%	85%	77%	68%	57%	47%	36%	27%	19%	12%	8%	5%	3%	2%	2%	1%

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°
1835	1833	1803	1749	1667	1556	1415	1247	1054	856	667	495	347	228	148	95	61	41	29	20
100%	100%	98%	95%	91%	85%	77%	68%	57%	47%	36%	27%	19%	12%	8%	5%	3%	2%	2%	1%

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°
1835	1833	1803	1749	1667	1556	1415	1247	1054	856	667	495	347	228	148	95	61	41	29	20
100%	100%	98%	95%	91%	85%	77%	68%	57%	47%	36%	27%	19%	12%	8%	5%	3%	2%	2%	1%

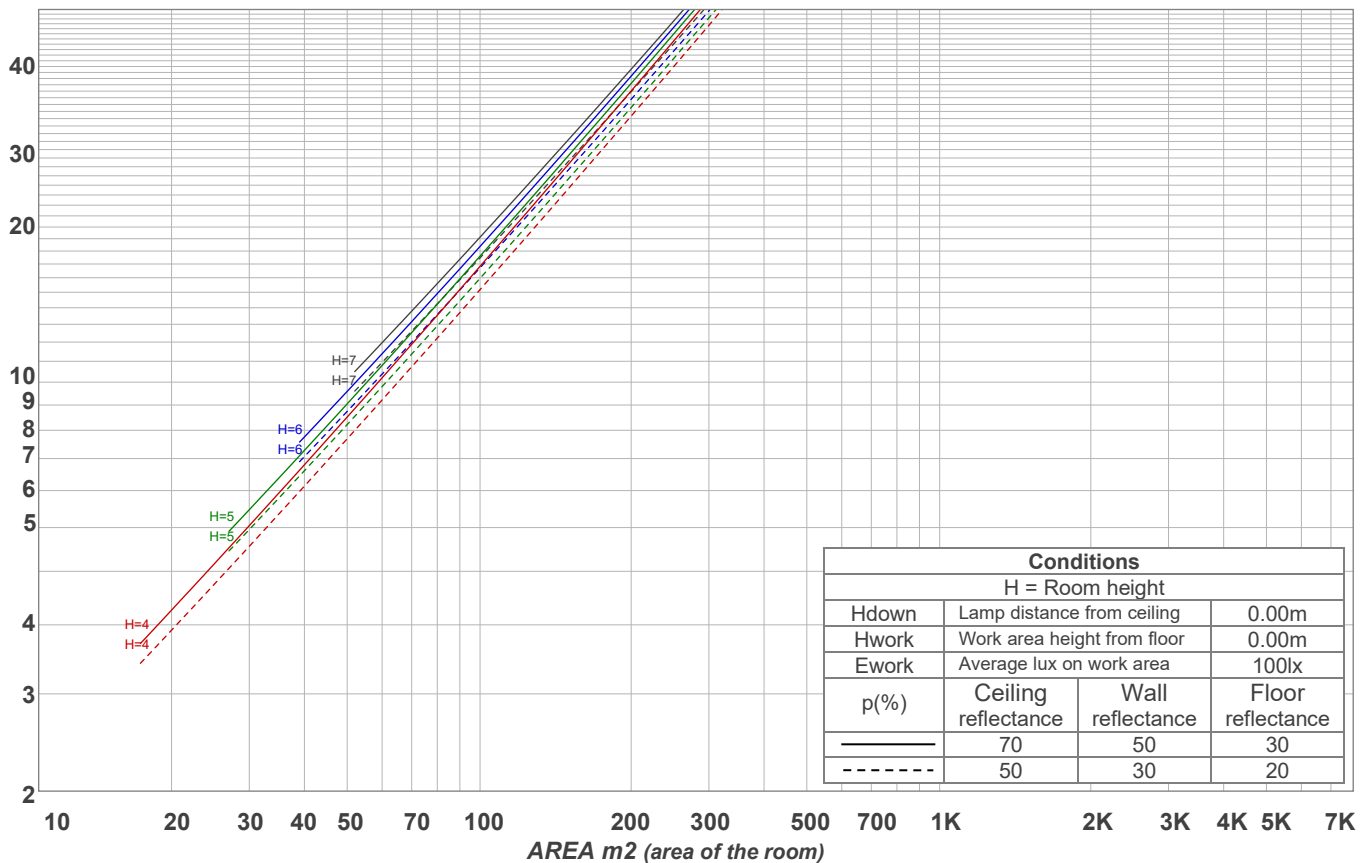
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1835	1833	1803	1749	1667	1556	1415	1247	1054	856	667	495	347	228	148	95	61	41	29	20
100%	100%	98%	95%	91%	85%	77%	68%	57%	47%	36%	27%	19%	12%	8%	5%	3%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34.8°	54.2°	66.7°	99.1%	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	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	82
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	90	83	78	75	89	82	78	75	81	78	75	81	77	75	80	77	74	73
9	87	80	76	73	86	80	75	72	79	75	72	78	75	72	77	74	72	71
10	85	77	73	70	84	77	73	70	76	72	70	76	72	70	75	72	69	69

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
163 lm	310 lm	137 lm	23.9 lm	4.29 lm	1.51 lm	1.76 lm	1.96 lm	2.12 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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