

Light efficiency:

80 Lumen/Watt

Output: 783 lm

Light quality:

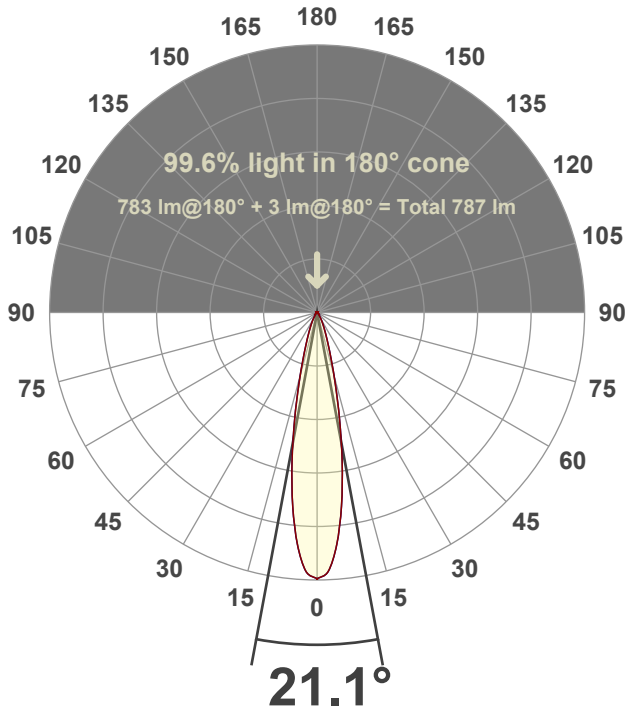
CRI: 96.2

Peak: 4275 cd

Power: 9.8 W



Beam angle



Test number:

CR4D-RA-OR-Z-T9-TW1840-15

Luminaire Model:

CORE 4" ROUND OPEN REGRESS T9-1840-15°

Date and time:

8/21/2025 4:01:27 PM

LUM: 783

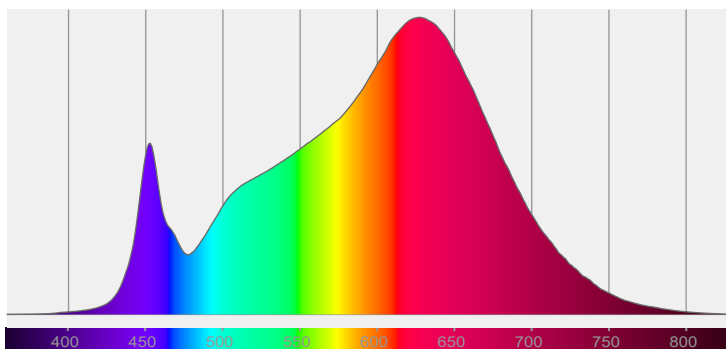
Primary Optic 15° = 21.1°

2881 K

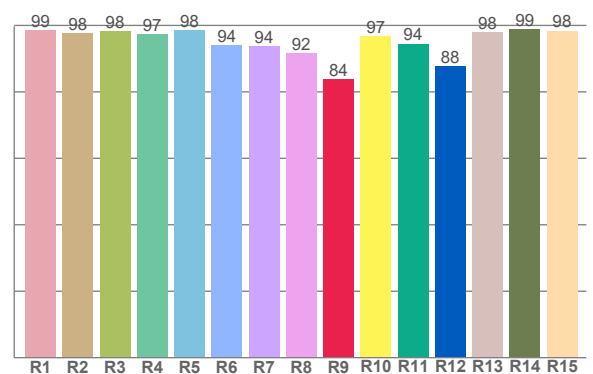
Measured at Mid-Point of Tuneable White CCT Range

*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	83.8	93.9	103.0	93.2	0.438	0.392	0.257	0.344	-0.0052

R_f 93.9

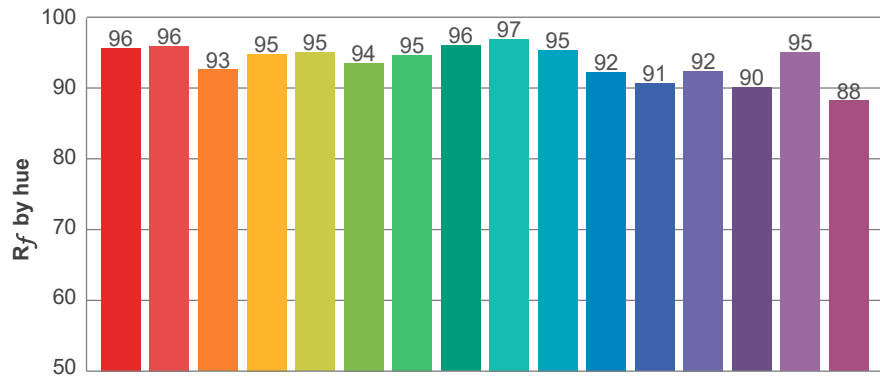
Fidelity index R_f

R_g 103.0

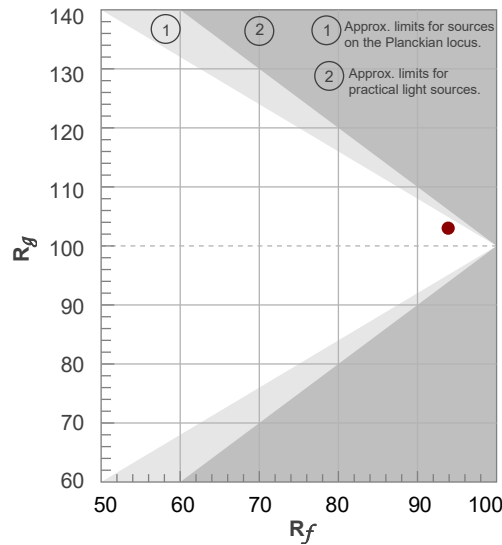
Gammut index R_g

TM30: 93.9

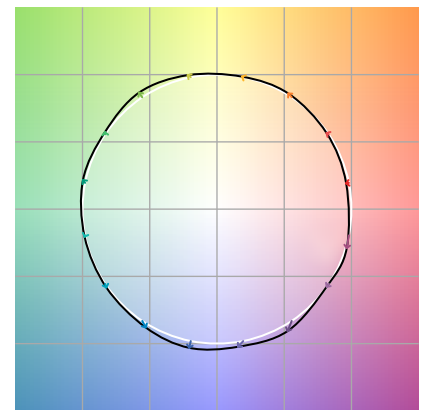
TM-30Color



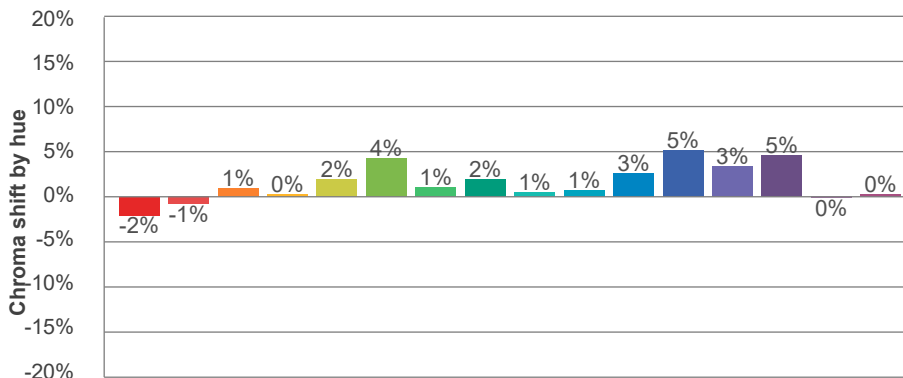
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	4%
4	95	0%	1%
5	95	2%	2%
6	94	4%	0%
7	95	1%	-1%
8	96	2%	-2%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-10%



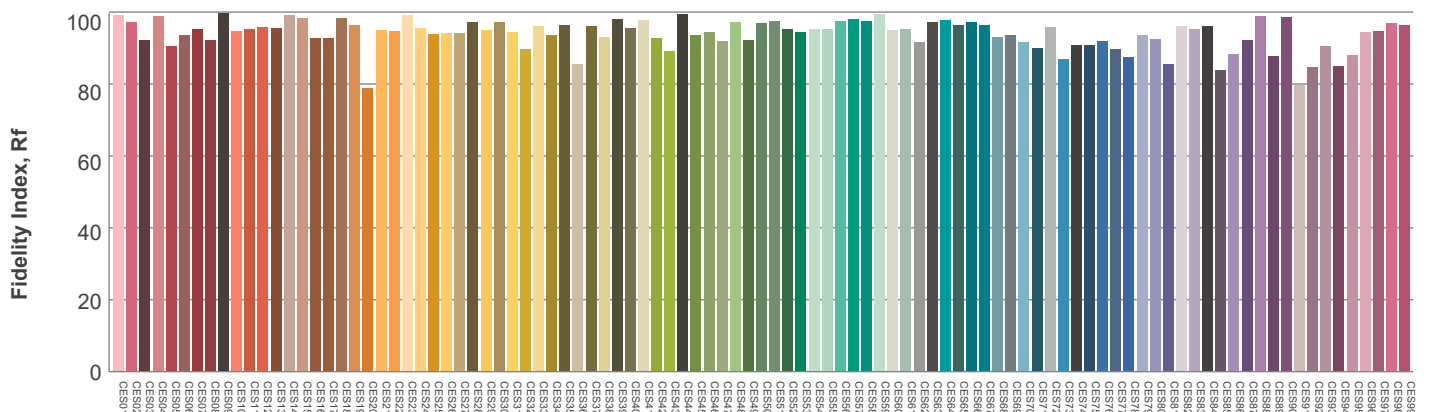
Color vector graphics



Color distortion

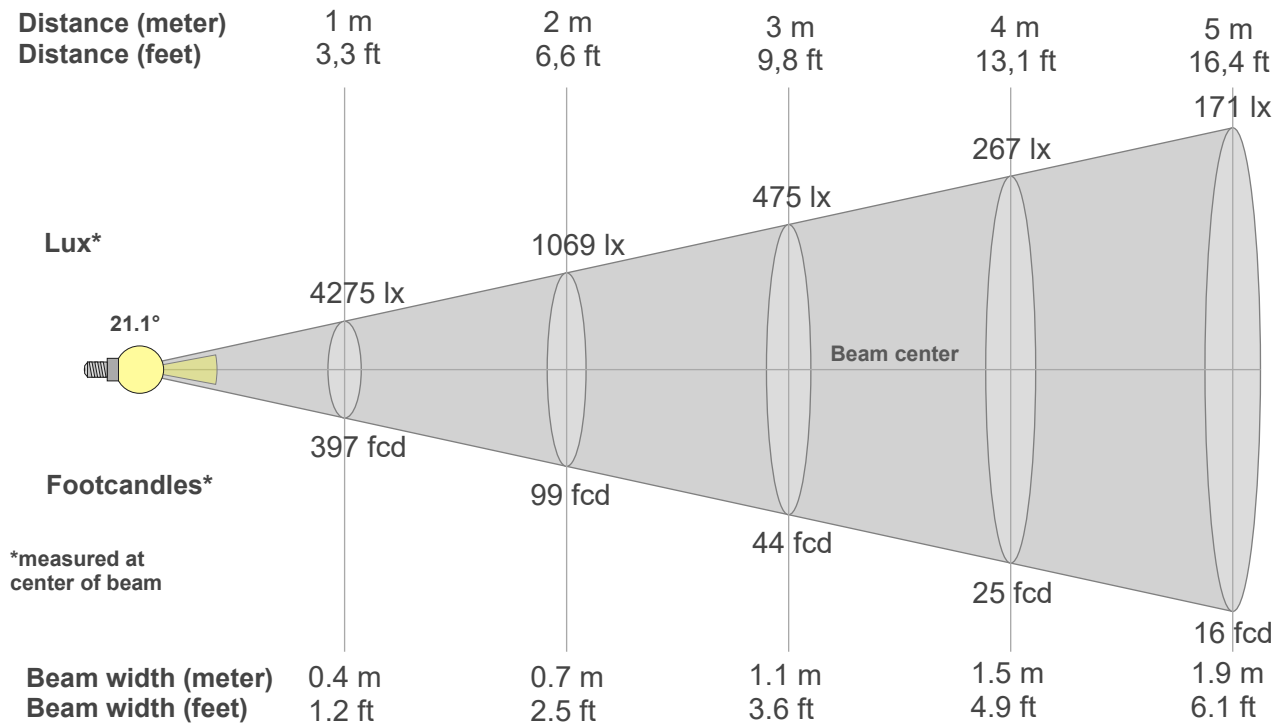


Hue bin



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
4275lx	1069lx	475lx	267lx	171lx	119lx	87lx	67lx	53lx	43lx	35lx	30lx	25lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
397.1fc	99.3fcd	44.1fcd	24.8fcd	15.9fcd	11fcd	8.1fcd	6.2fcd	4.9fcd	4fcd	3.3fcd	2.8fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd

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°
4275	4187	3894	3443	2891	2297	1724	1250	900	652	482	364	279	217	168	129	96	69	48	33
100%	98%	91%	81%	68%	54%	40%	29%	21%	15%	11%	9%	7%	5%	4%	3%	2%	2%	1%	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°
4275	4187	3894	3443	2891	2297	1724	1250	900	652	482	364	279	217	168	129	96	69	48	33
100%	98%	91%	81%	68%	54%	40%	29%	21%	15%	11%	9%	7%	5%	4%	3%	2%	2%	1%	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°
4275	4187	3894	3443	2891	2297	1724	1250	900	652	482	364	279	217	168	129	96	69	48	33
100%	98%	91%	81%	68%	54%	40%	29%	21%	15%	11%	9%	7%	5%	4%	3%	2%	2%	1%	1%

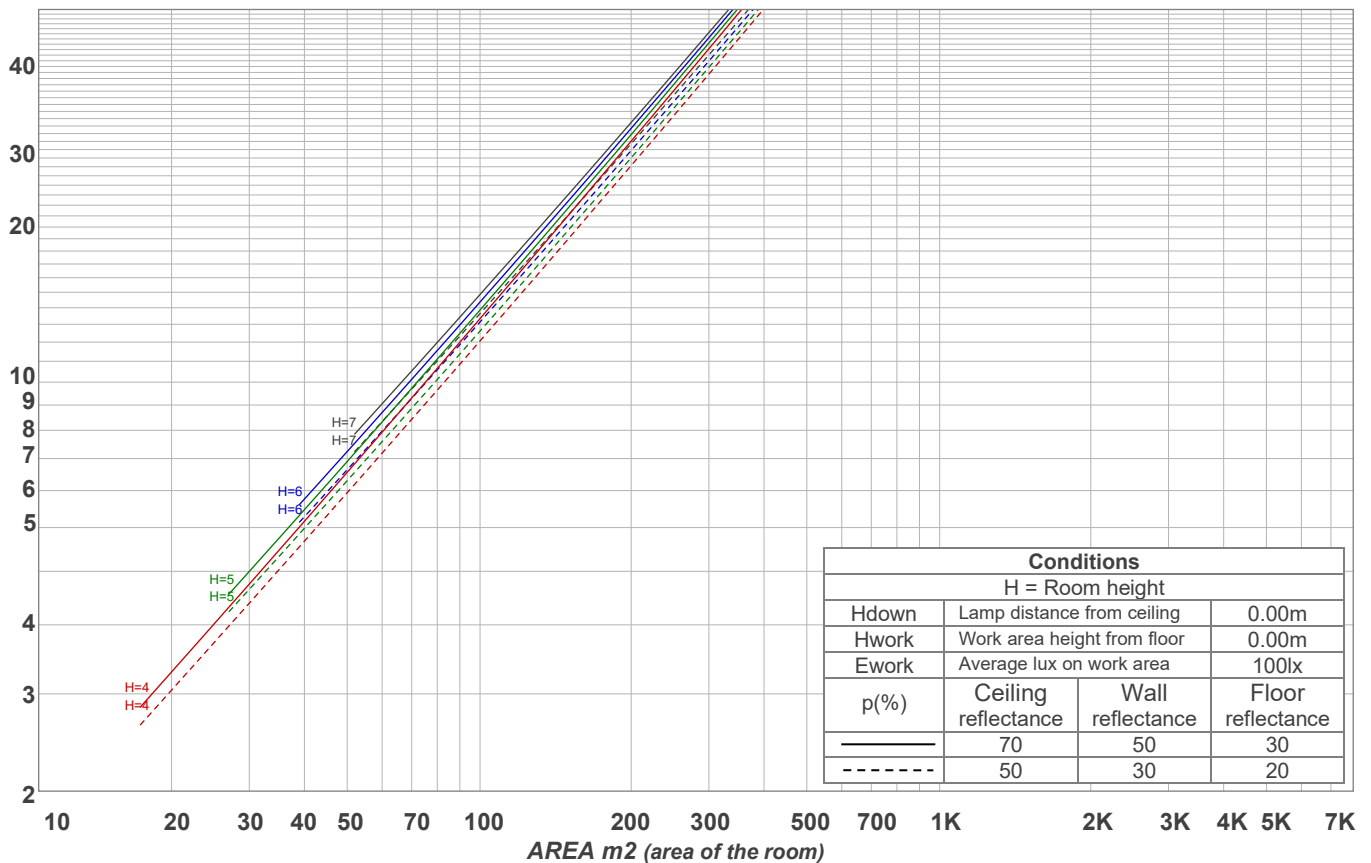
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4275	4187	3894	3443	2891	2297	1724	1250	900	652	482	364	279	217	168	129	96	69	48	33
100%	98%	91%	81%	68%	54%	40%	29%	21%	15%	11%	9%	7%	5%	4%	3%	2%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.1°	41.6°	62.6°	98.9%	98.4%

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	109	112	110	109	107	107	105	104	103	102	101	99	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	88	93	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	84	90	87	84	89	86	83	88	85	83	82
7	96	89	85	82	94	88	85	82	87	84	81	86	83	81	85	83	81	80
8	93	86	82	79	92	86	82	79	85	82	79	84	81	79	83	81	78	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	79	76	75
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	79	77	75	74

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
306 lm	306 lm	116 lm	38.5 lm	6.39 lm	2.16 lm	2.61 lm	2.94 lm	2.87 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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