

Light efficiency:

65 Lumen/Watt

Output: 630 lm

Light quality:

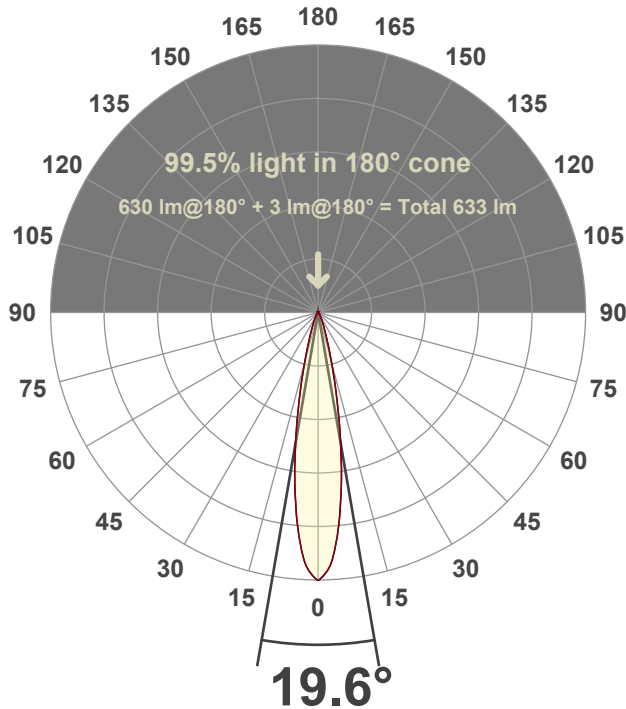
CRI: 96.2

Peak: 4192 cd

Power: 9.7 W



Beam angle



Test number:

CR4D-RA-DR-Z-T9-TW1840-15

Luminaire Model:

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

Date and time:

8/20/2025 9:51:33 AM

LUM: 630

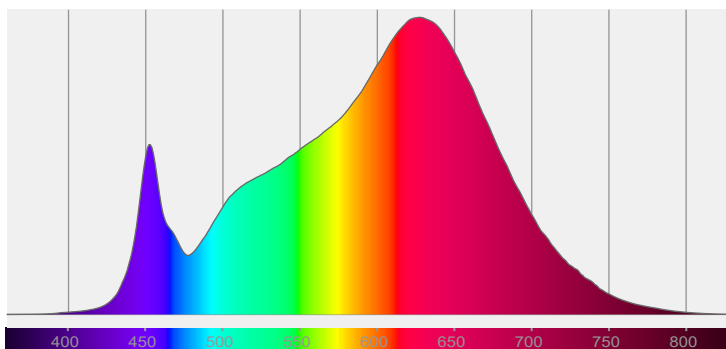
Primary Optic 15° = 19.6°

2870 K

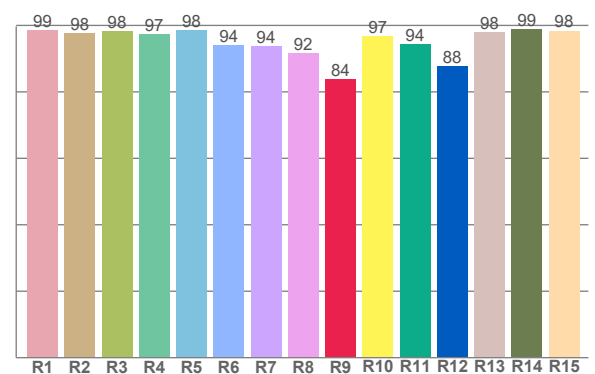
Measured at Mid-Point of Tuneable White CCT Range

*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	83.9	93.9	103.0	93.2	0.439	0.392	0.257	0.344	-0.0052

R_f 93.9

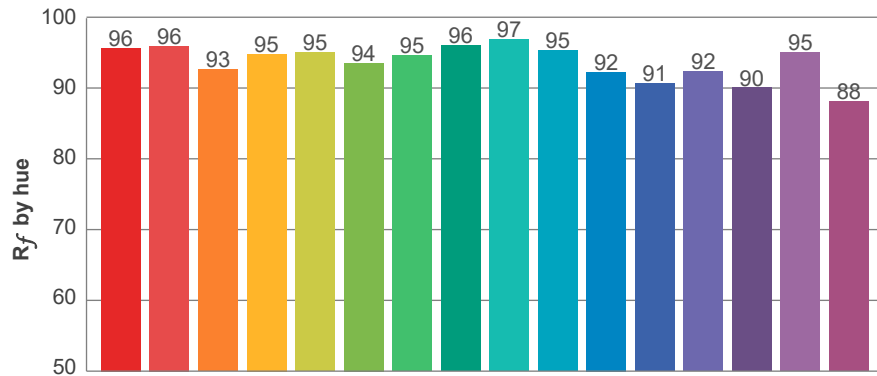
Fidelity index R_f

R_g 103.0

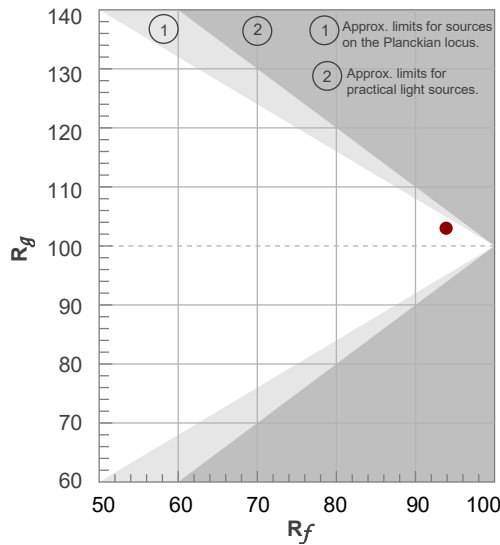
Gammut index R_g

TM30: 93.9

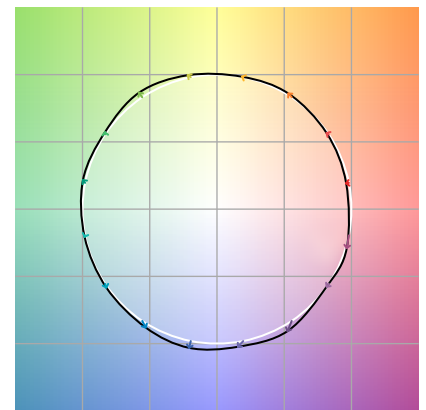
TM-30Color



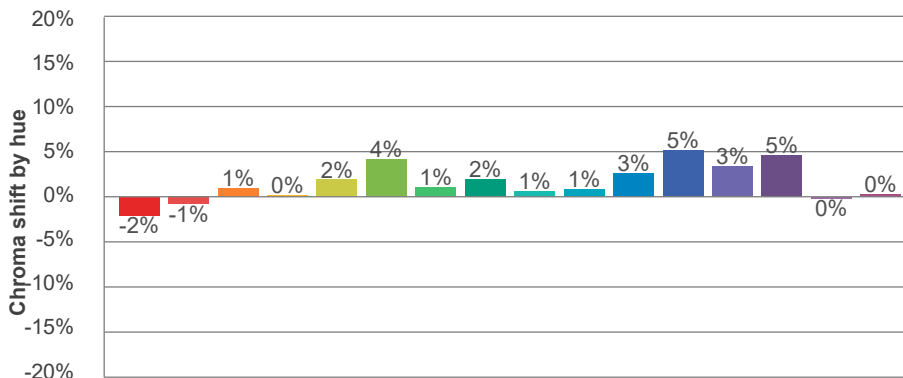
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	96	-1%	2%
3	93	1%	4%
4	95	0%	1%
5	95	2%	2%
6	94	4%	0%
7	95	1%	-1%
8	96	2%	-2%
9	97	1%	1%
10	95	1%	3%
11	92	3%	5%
12	91	5%	0%
13	92	3%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-10%



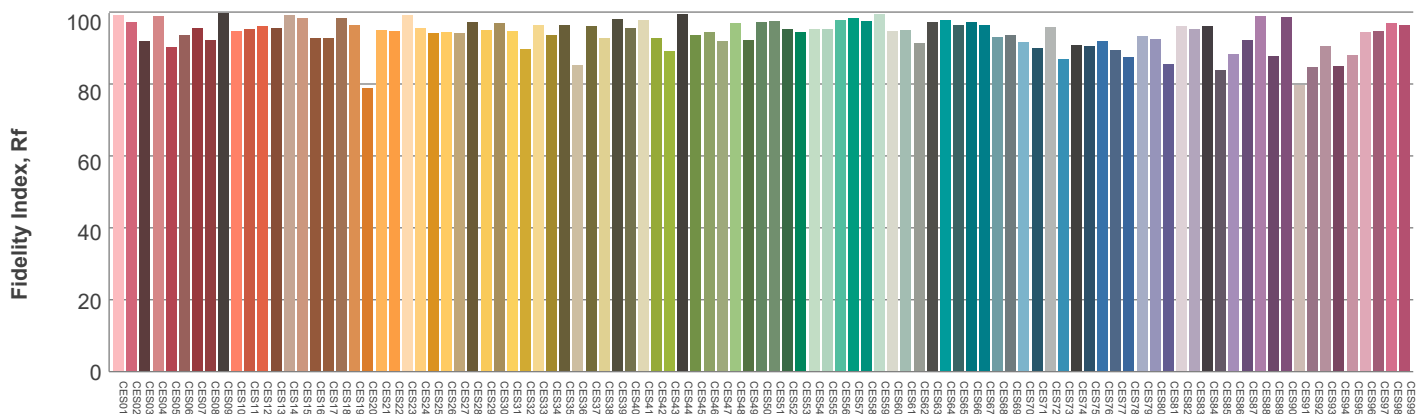
Color vector graphics



Color distortion

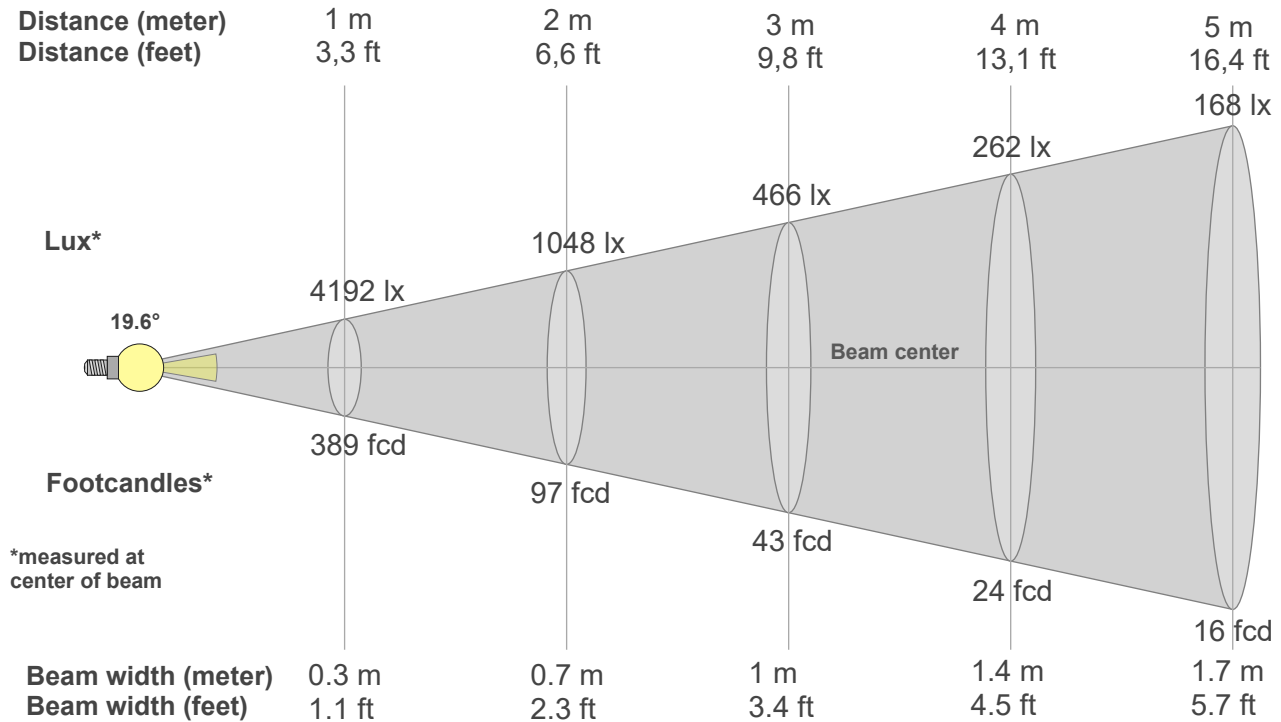


Hue bin



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
4192lx	1048lx	466lx	262lx	168lx	116lx	86lx	66lx	52lx	42lx	35lx	29lx	25lx	21lx	19lx	16lx	15lx	13lx	12lx	10lx
389.5fcd	97.4fcd	43.3fcd	24.3fcd	15.6fcd	10.8fcd	7.9fcd	6.1fcd	4.8fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	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°
4192	4152	4052	3951	3725	3495	3231	2938	2644	2336	2028	1746	1477	1224	1027	830	691	567	463	392
100%	99%	97%	94%	89%	83%	77%	70%	63%	56%	48%	42%	35%	29%	24%	20%	16%	14%	11%	9%

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°
4192	4152	4052	3951	3725	3495	3231	2938	2644	2336	2028	1746	1477	1224	1027	830	691	567	463	392
100%	99%	97%	94%	89%	83%	77%	70%	63%	56%	48%	42%	35%	29%	24%	20%	16%	14%	11%	9%

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°
4192	4152	4052	3951	3725	3495	3231	2938	2644	2336	2028	1746	1477	1224	1027	830	691	567	463	392
100%	99%	97%	94%	89%	83%	77%	70%	63%	56%	48%	42%	35%	29%	24%	20%	16%	14%	11%	9%

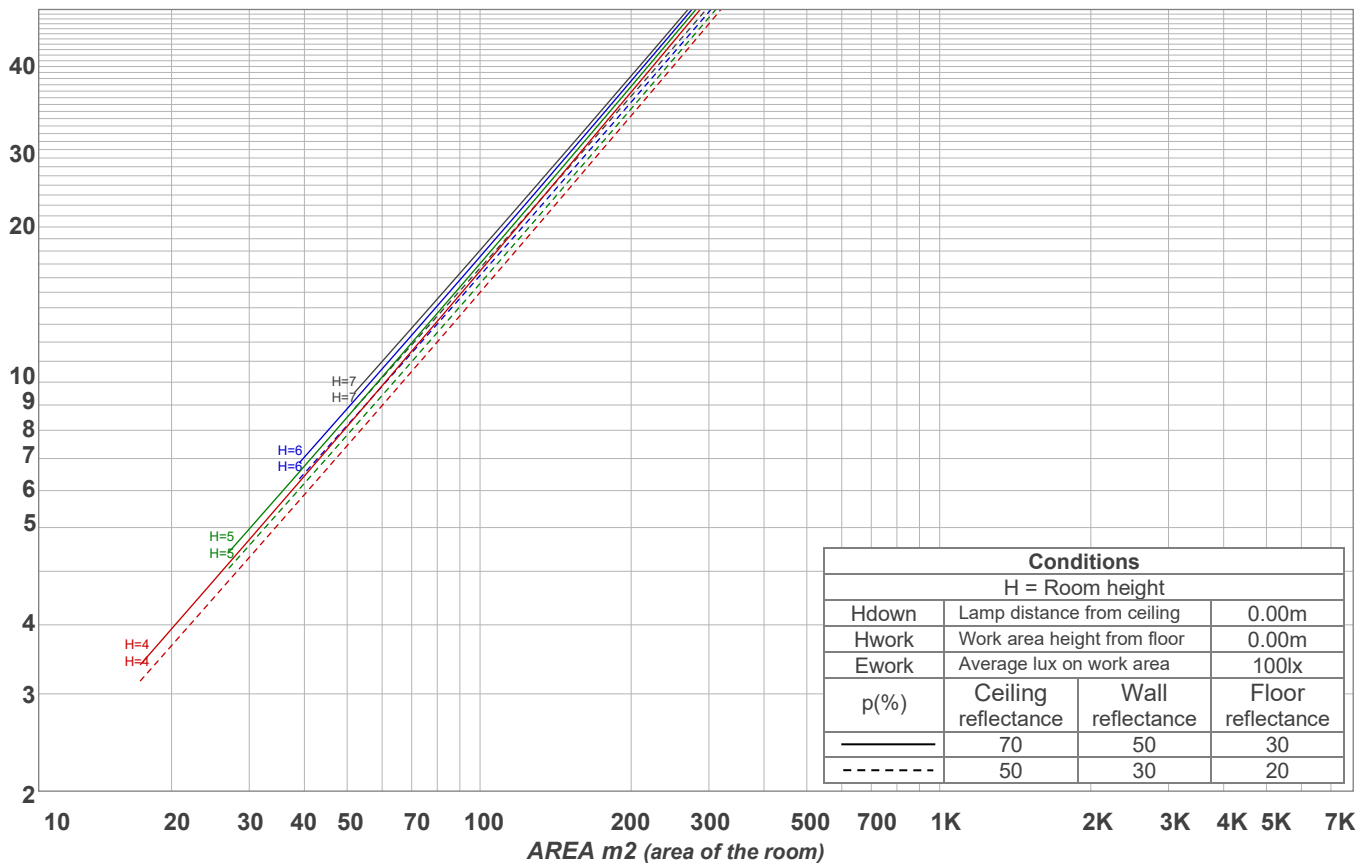
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
4192	4152	4052	3951	3725	3495	3231	2938	2644	2336	2028	1746	1477	1224	1027	830	691	567	463	392
100%	99%	97%	94%	89%	83%	77%	70%	63%	56%	48%	42%	35%	29%	24%	20%	16%	14%	11%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.6°	37.2°	54.7°	99.3%	99.0%

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	101	100	99	99	97
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	85
7	98	92	88	85	97	91	87	85	90	87	85	89	86	84	88	86	84	83
8	95	89	85	83	94	89	85	83	88	85	82	87	84	82	86	84	82	81
9	93	87	83	81	92	87	83	81	86	83	81	85	82	80	85	82	80	79
10	91	85	81	79	90	85	81	79	84	81	79	84	81	79	83	80	78	78

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
284 lm	244 lm	73.3 lm	19.8 lm	2.82 lm	1.03 lm	1.35 lm	1.38 lm	1.61 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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