

Light efficiency:

68 Lumen/Watt

Output: 1372 lm

Light quality:

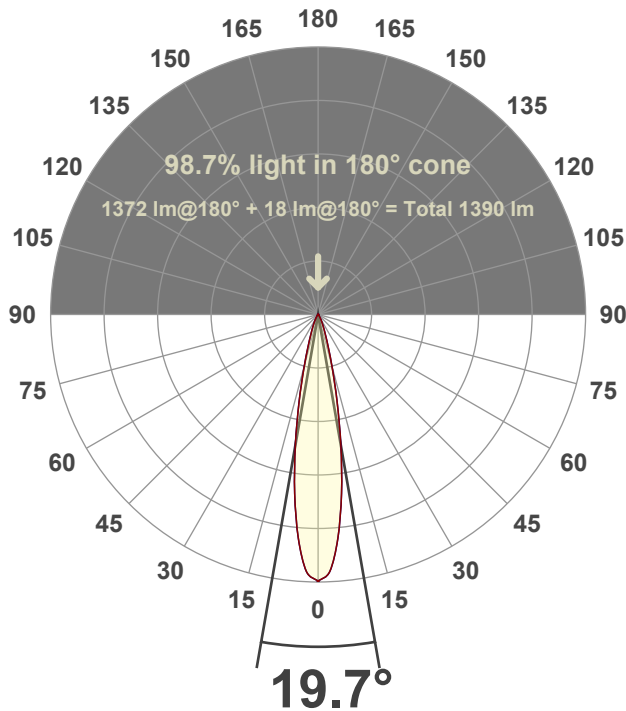
CRI: 96.2

Peak: 8908 cd

Power: 20.2 W



Beam angle



Test number:

CR4D-RA-DR-Z-T20-TW1840-15

Luminaire Model:

CORE 4" ROUND DEEP REGRESS T20-1840-15°

Date and time:

8/20/2025 11:20:27 AM

LUM: 1372

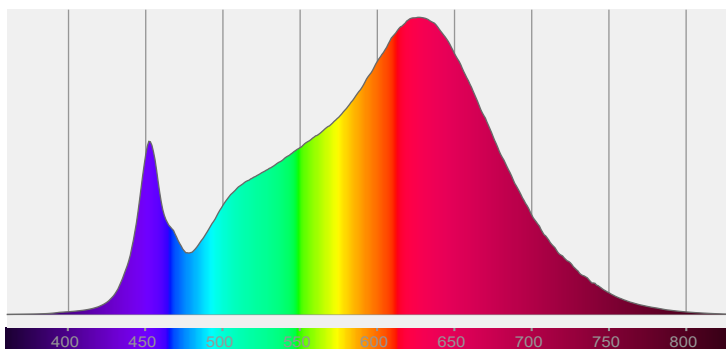
Primary Optic 15° = 19.7°

2892 K

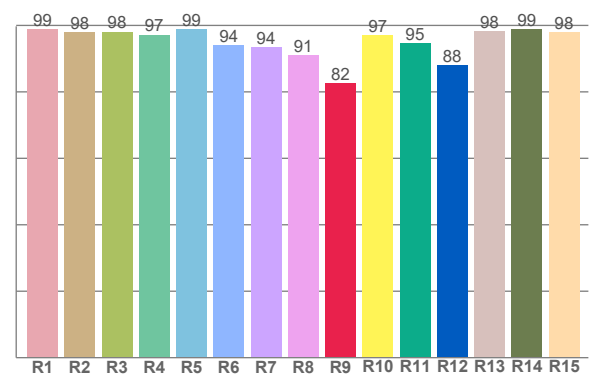
Measured at Mid-Point of Tuneable White CCT Range

*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	82.5	93.8	103.0	93.0	0.437	0.391	0.256	0.344	-0.0054

R_f 93.8

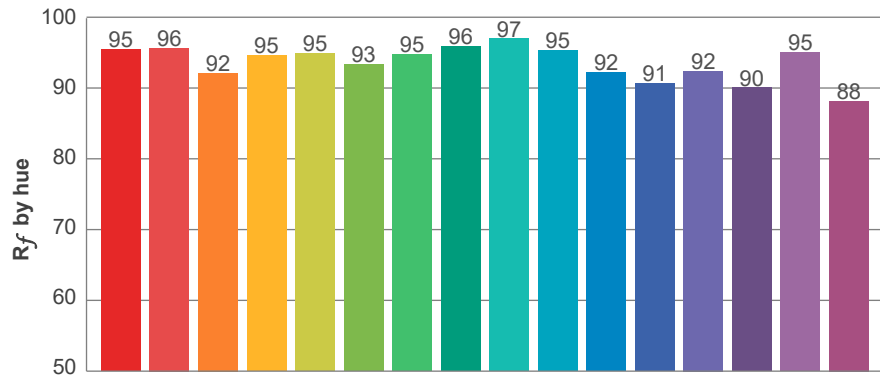
Fidelity index R_f

R_g 103.0

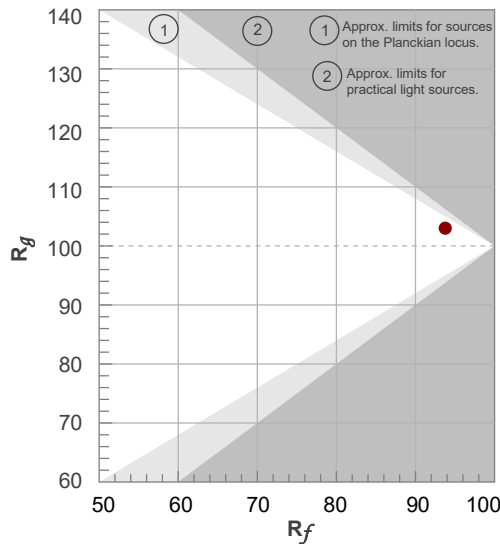
Gammut index R_g

TM30: 93.8

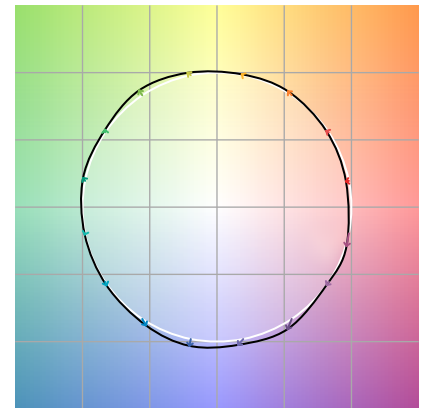
TM-30Color



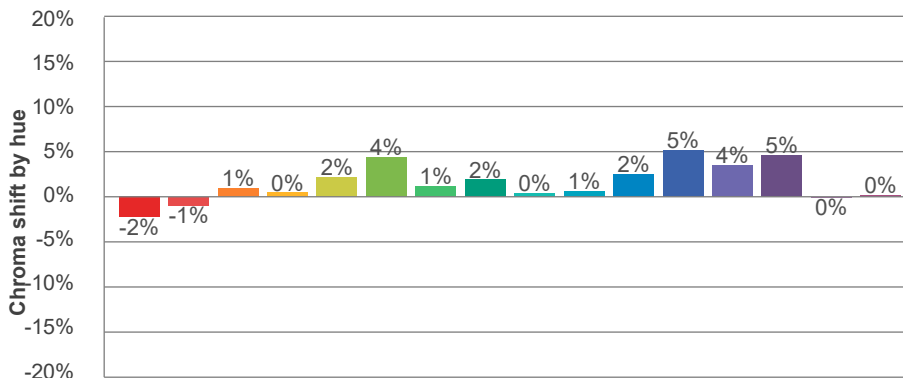
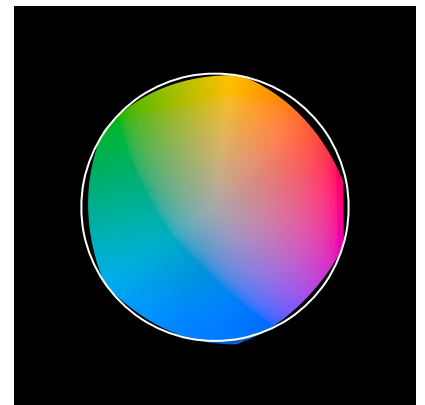
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	95	0%	1%
5	95	2%	2%
6	93	4%	0%
7	95	1%	-2%
8	96	2%	-2%
9	97	0%	1%
10	95	1%	3%
11	92	2%	5%
12	91	5%	0%
13	92	4%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-10%



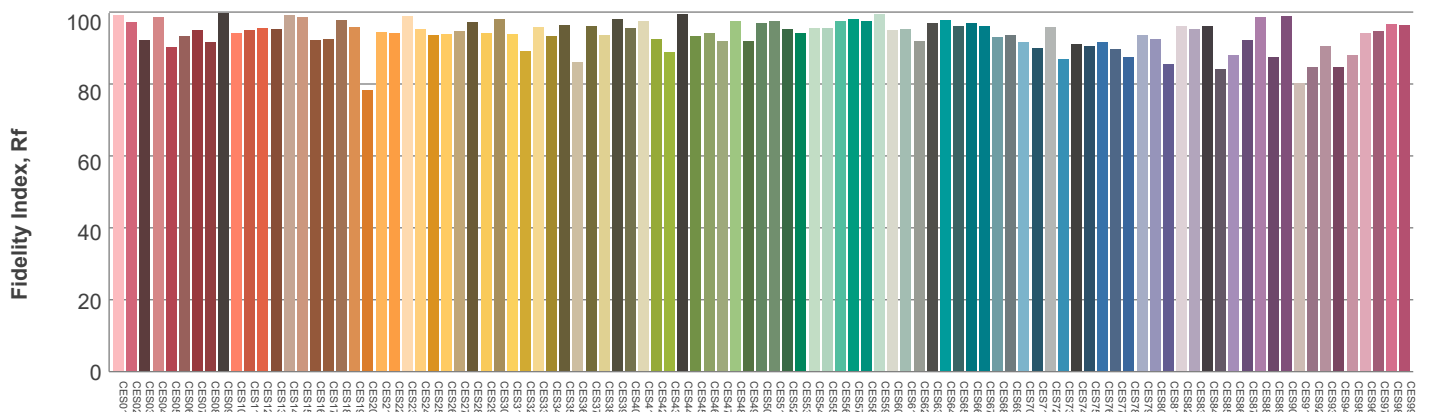
Color vector graphics



Color distortion

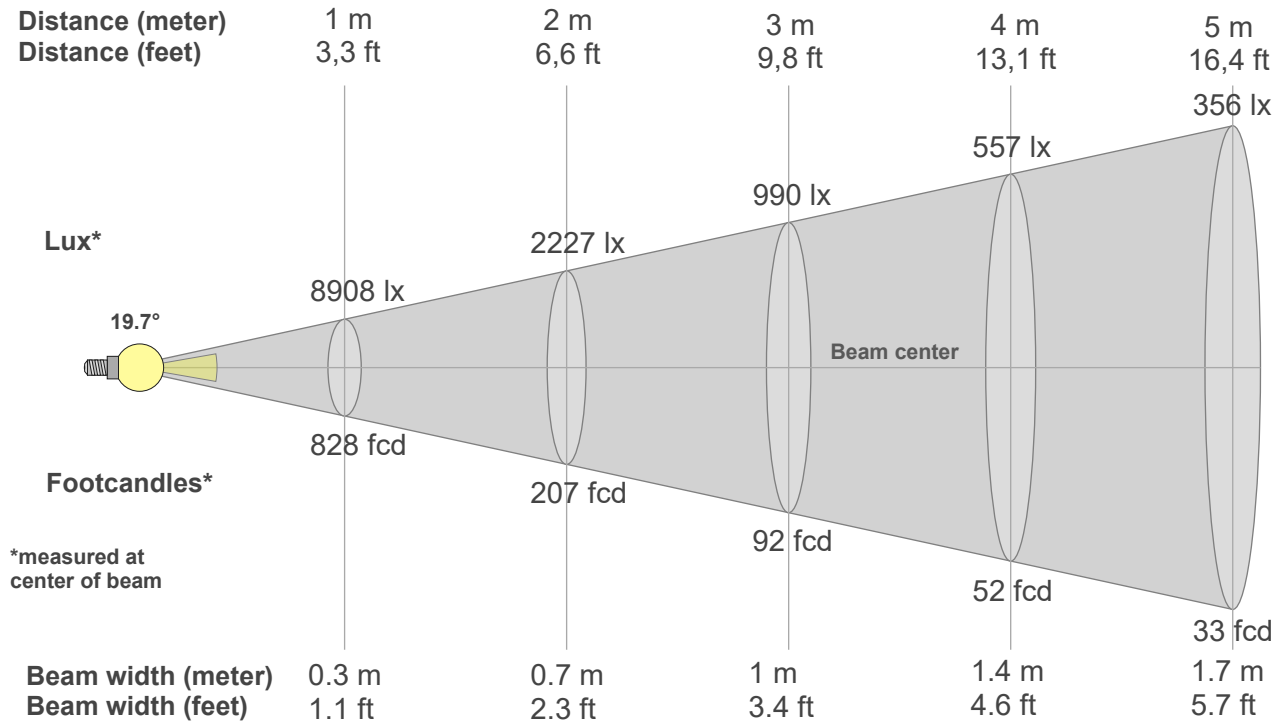


Hue bin



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
8908lx	2227lx	990lx	557lx	356lx	247lx	182lx	139lx	110lx	89lx	74lx	62lx	53lx	45lx	40lx	35lx	31lx	27lx	25lx	22lx
827.5fc	206.9fc	91.9fc	51.7fc	33.1fc	23fc	16.9fc	12.9fc	10.2fc	8.3fc	6.8fc	5.7fc	4.9fc	4.2fc	3.7fc	3.2fc	2.9fc	2.6fc	2.3fc	2.1fc

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°
8908	8812	8689	8447	7998	7549	6942	6329	5688	5025	4369	3766	3163	2665	2209	1802	1506	1209	1024	851
100%	99%	98%	95%	90%	85%	78%	71%	64%	56%	49%	42%	36%	30%	25%	20%	17%	14%	11%	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°
8908	8812	8689	8447	7998	7549	6942	6329	5688	5025	4369	3766	3163	2665	2209	1802	1506	1209	1024	851
100%	99%	98%	95%	90%	85%	78%	71%	64%	56%	49%	42%	36%	30%	25%	20%	17%	14%	11%	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°
8908	8812	8689	8447	7998	7549	6942	6329	5688	5025	4369	3766	3163	2665	2209	1802	1506	1209	1024	851
100%	99%	98%	95%	90%	85%	78%	71%	64%	56%	49%	42%	36%	30%	25%	20%	17%	14%	11%	10%

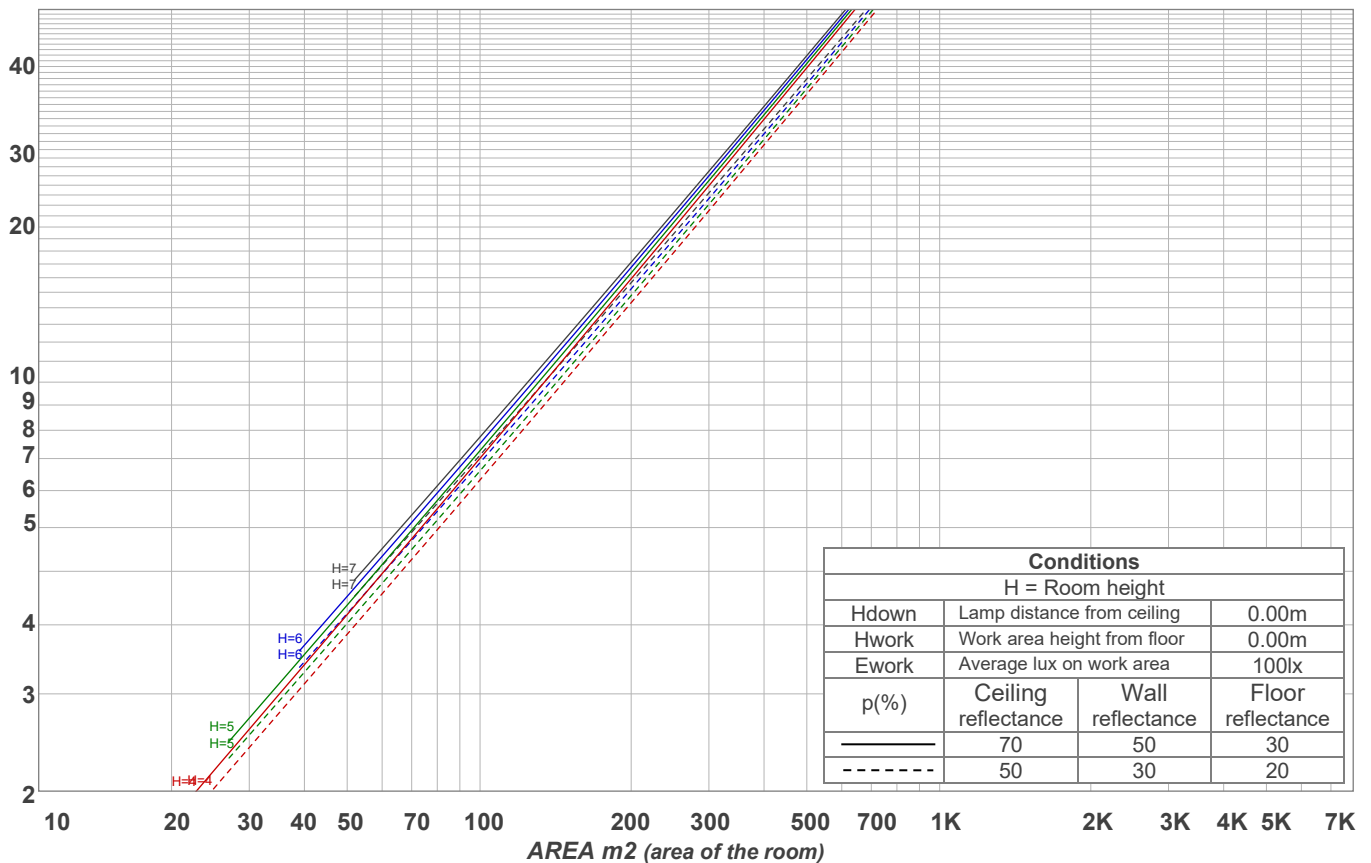
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8908	8812	8689	8447	7998	7549	6942	6329	5688	5025	4369	3766	3163	2665	2209	1802	1506	1209	1024	851
100%	99%	98%	95%	90%	85%	78%	71%	64%	56%	49%	42%	36%	30%	25%	20%	17%	14%	11%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.7°	37.5°	55.6°	99.0%	98.6%

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	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	91	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	91	89	87	86
6	100	94	90	87	99	93	89	87	92	89	86	91	88	86	90	87	85	84
7	97	91	87	85	96	91	87	84	90	86	84	89	86	84	88	85	83	82
8	95	89	85	82	94	88	85	82	87	84	82	87	84	82	86	83	81	80
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	79
10	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	80	78	77

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
610 lm	529 lm	163 lm	45.7 lm	7.39 lm	3.39 lm	4.10 lm	4.16 lm	4.87 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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