

Light efficiency:

80 Lumen/Watt

Output: 1335 lm

Light quality:

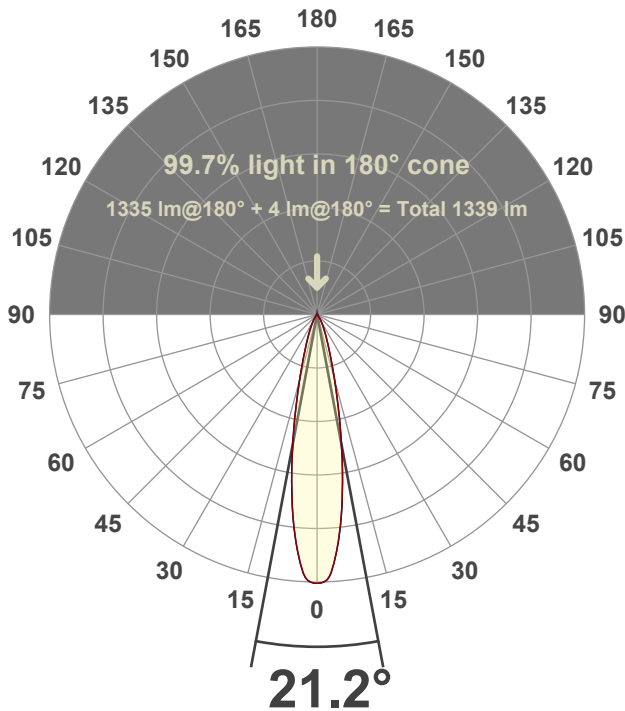
CRI: 96.0

Peak: 7145 cd

Power: 16.8 W



Beam angle



Test number:

CR4D-RA-OR-Z-T15-TW1840-15

Luminaire Model:

CORE 4" ROUND OPEN REGRESS T15-1840-15°

Date and time:

8/20/2025 3:40:05 PM

LUM: 1335

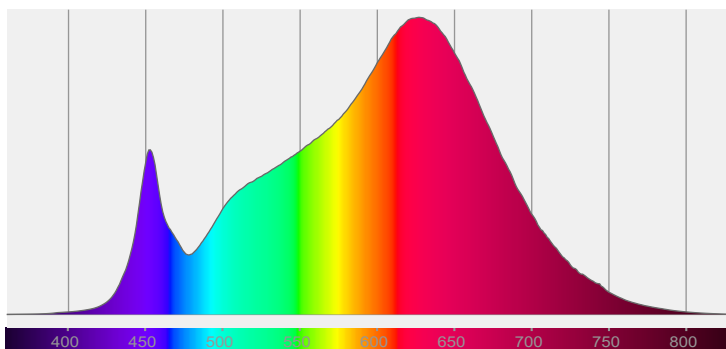
Primary Optic 15° = 21.2°

2851 K

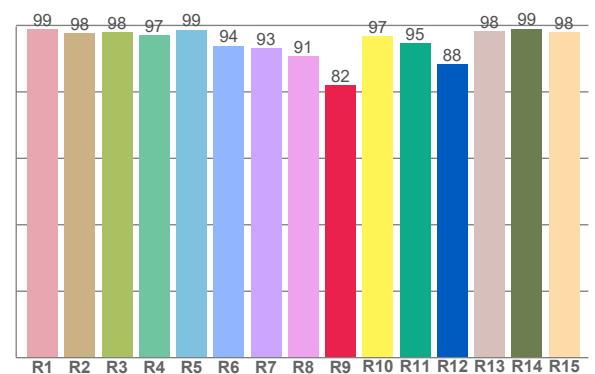
Measured at Mid-Point of Tuneable White CCT Range

*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	81.9	93.6	103.3	92.6	0.439	0.391	0.258	0.344	-0.0057

R_f 93.6

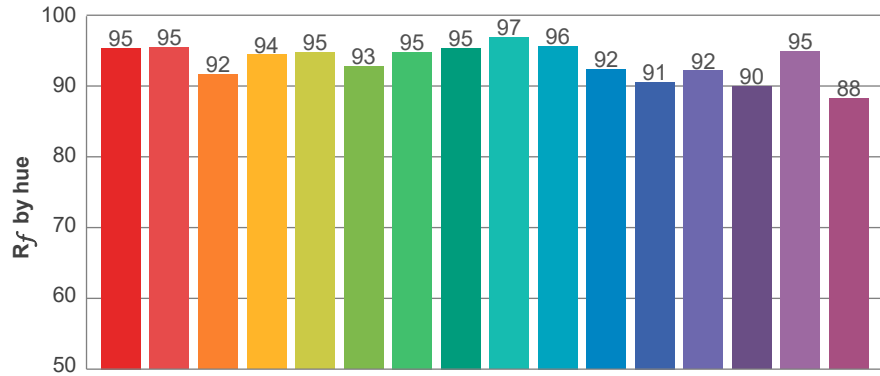
Fidelity index R_f

R_g 103.3

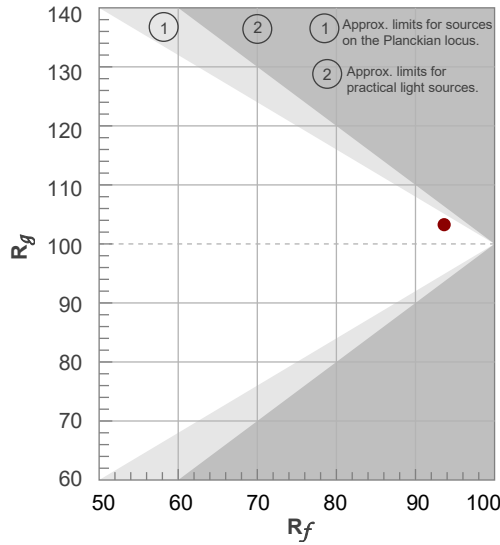
Gammut index R_g

TM30: 93.6

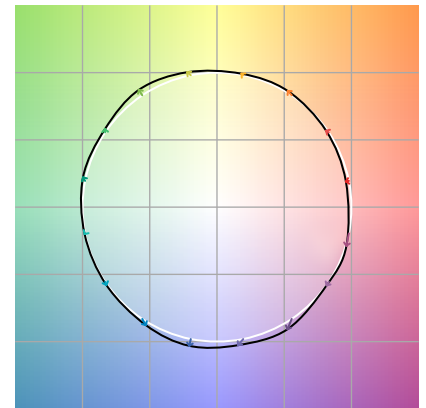
TM-30Color



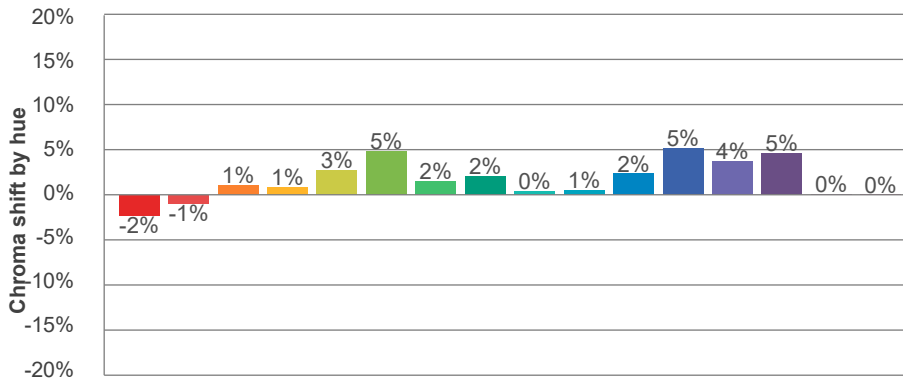
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	95	-1%	2%
3	92	1%	4%
4	94	1%	2%
5	95	3%	2%
6	93	5%	0%
7	95	2%	-2%
8	95	2%	-2%
9	97	0%	0%
10	96	1%	2%
11	92	2%	5%
12	91	5%	0%
13	92	4%	-5%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-9%



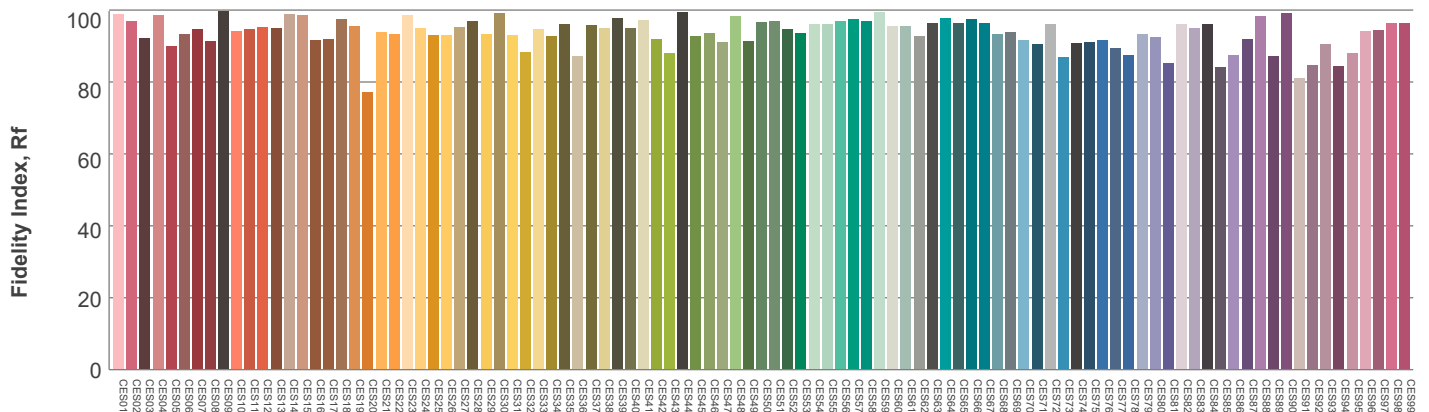
Color vector graphics



Color distortion

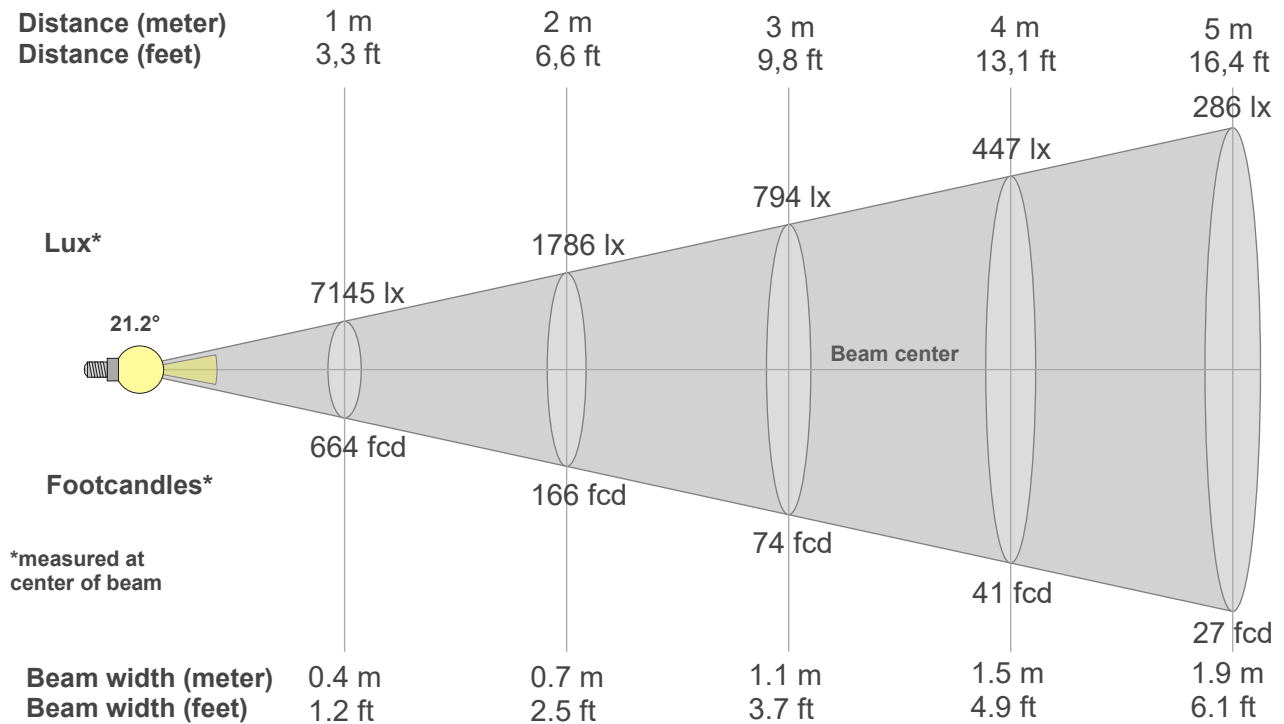


Hue bin



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
7145lx	1786lx	794lx	447lx	286lx	198lx	146lx	112lx	88lx	71lx	59lx	50lx	42lx	36lx	32lx	28lx	25lx	22lx	20lx	18lx
663.8fcd	165.9fcd	73.8fcd	41.5fcd	26.6fcd	18.4fcd	13.5fcd	10.4fcd	8.2fcd	6.6fcd	5.5fcd	4.6fcd	3.9fcd	3.4fcd	3fcd	2.6fcd	2.3fcd	2fcd	1.8fcd	1.7fcd

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°
7145	7145	6605	5814	4868	3872	2931	2125	1552	1143	854	648	495	377	291	220	163	117	81	55
100%	100%	92%	81%	68%	54%	41%	30%	22%	16%	12%	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°
7145	7145	6605	5814	4868	3872	2931	2125	1552	1143	854	648	495	377	291	220	163	117	81	55
100%	100%	92%	81%	68%	54%	41%	30%	22%	16%	12%	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°
7145	7145	6605	5814	4868	3872	2931	2125	1552	1143	854	648	495	377	291	220	163	117	81	55
100%	100%	92%	81%	68%	54%	41%	30%	22%	16%	12%	9%	7%	5%	4%	3%	2%	2%	1%	1%

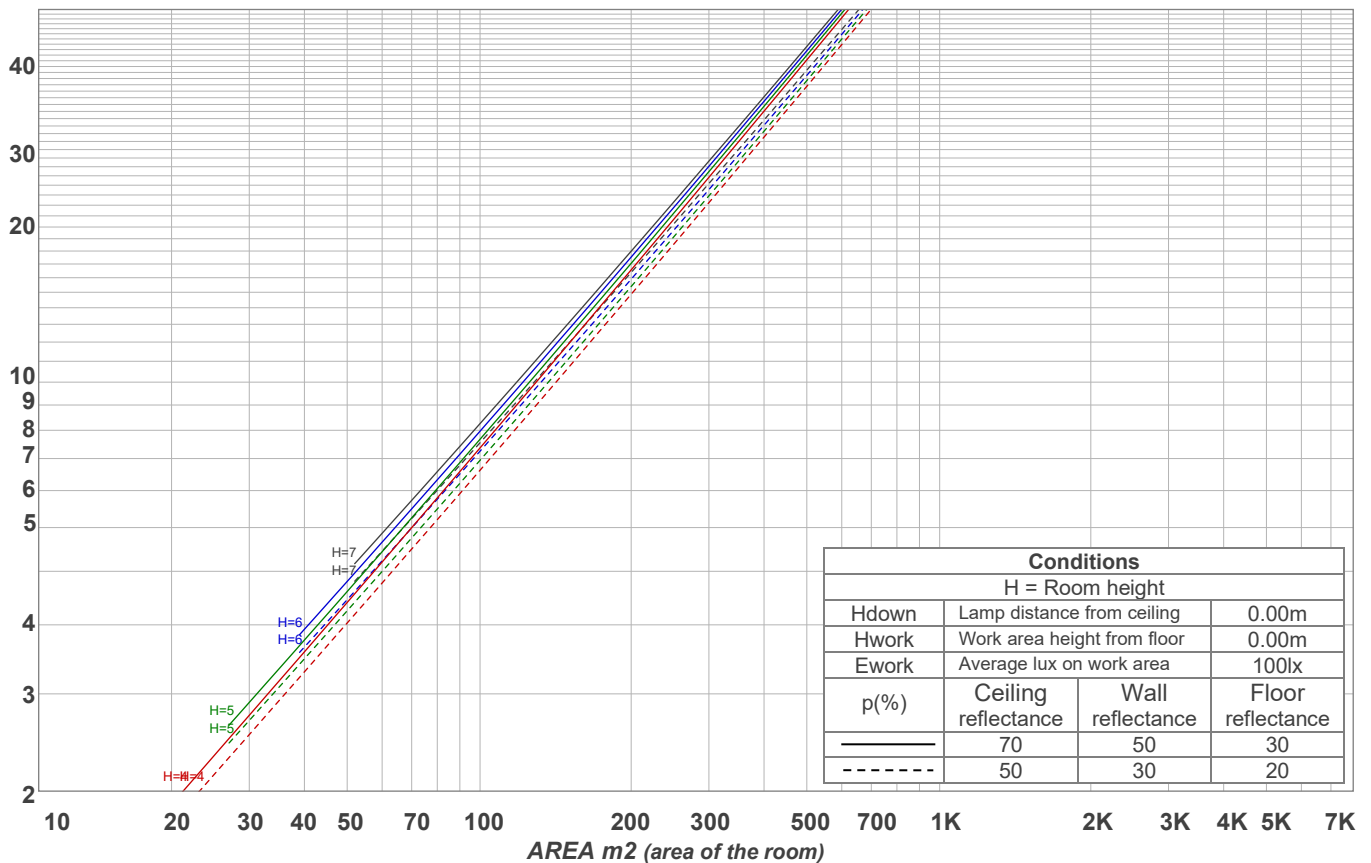
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7145	7145	6605	5814	4868	3872	2931	2125	1552	1143	854	648	495	377	291	220	163	117	81	55
100%	100%	92%	81%	68%	54%	41%	30%	22%	16%	12%	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
21.2°	42.4°	62.8°	99.3%	98.8%

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	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	95	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	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	91	88	93	90	87	91	89	86	90	88	86	85
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	95	89	85	82	88	84	82	86	83	81	86	83	81	80
8	93	87	82	80	92	86	82	79	85	82	79	84	81	79	83	81	79	78
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	79	77	76
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	80	77	75	74

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
518 lm	523 lm	204 lm	65.1 lm	10.8 lm	3.17 lm	3.14 lm	3.31 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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