

Light efficiency:

52 Lumen/Watt

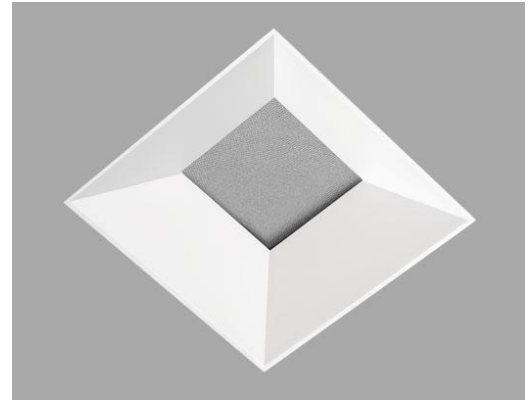
Output: 747 lm

Light quality:

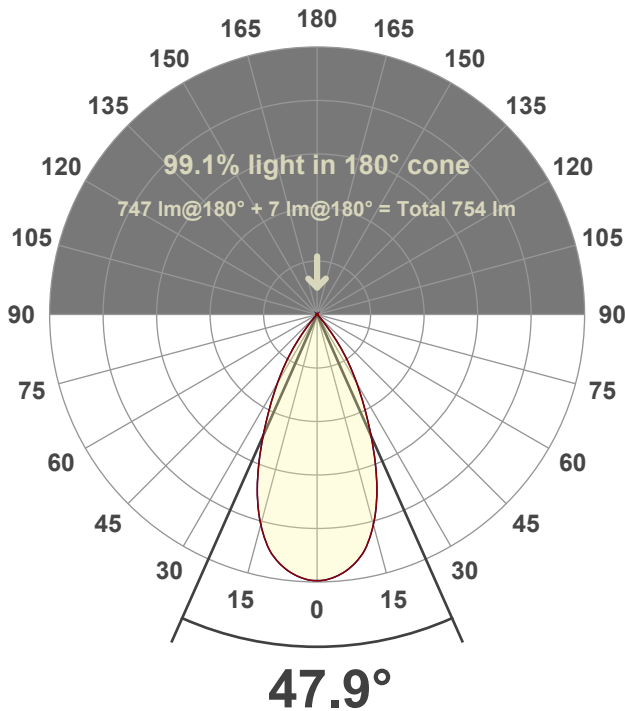
CRI: 96.2

Peak: 1163 cd

Power: 14.4 W



Beam angle



Test number:

CR4D-SA-DR-Z-T15-TW1840-50

Luminaire Model:

Core 4" Square Deep Regress T15-1840-50°

Date and time:

8/18/2025 5:17:07 PM

LUM: 747

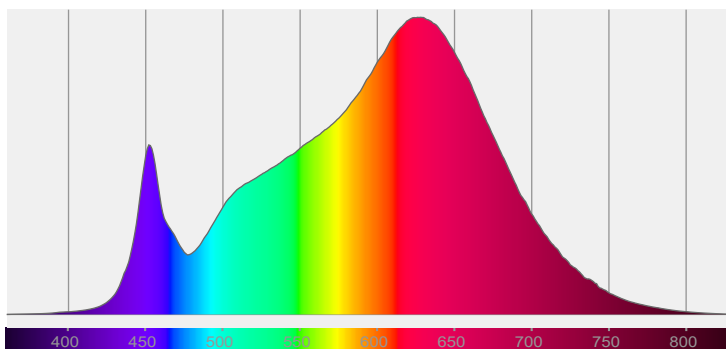
Primary Optic = 47.9°

2873 K

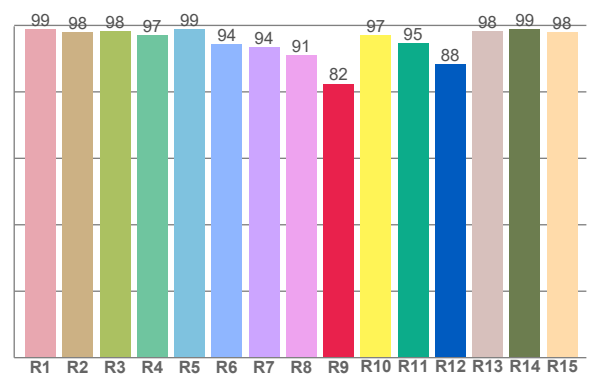
Measured at Mid-Point of Tuneable White CCT Range

*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	82.4	93.7	103.1	92.8	0.438	0.391	0.257	0.344	-0.0054

R_f 93.7

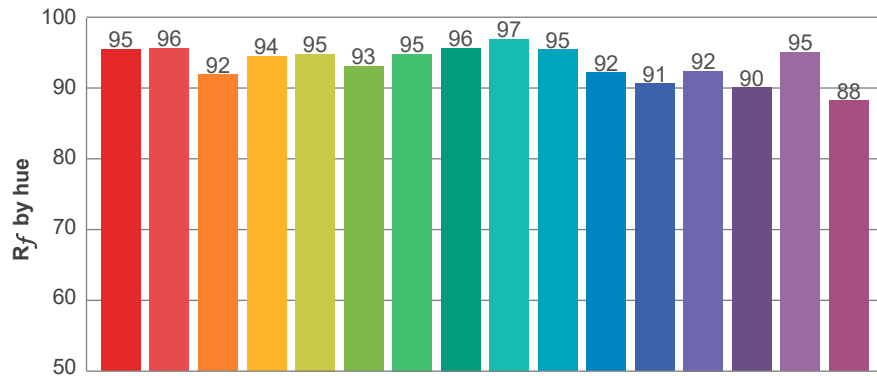
Fidelity index R_f

R_g 103.1

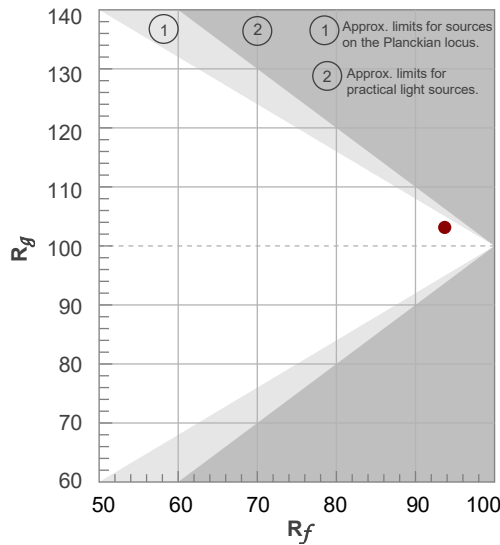
Gammut index R_g

TM30: 93.7

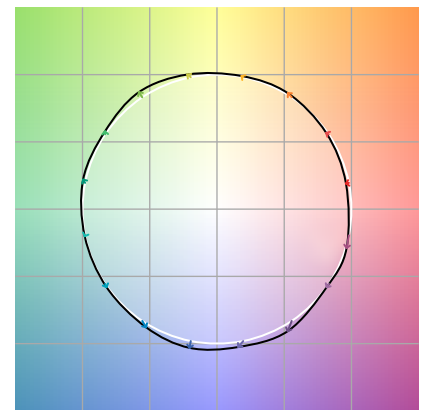
TM-30Color



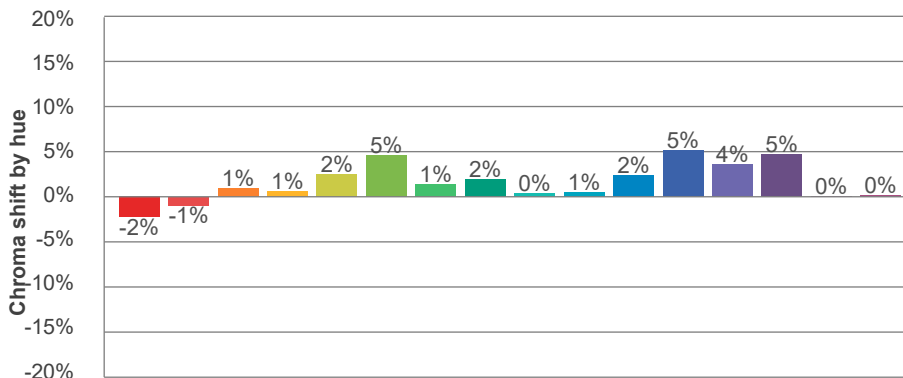
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-2%	0%
2	96	-1%	2%
3	92	1%	4%
4	94	1%	1%
5	95	2%	2%
6	93	5%	0%
7	95	1%	-2%
8	96	2%	-2%
9	97	0%	1%
10	95	1%	3%
11	92	2%	5%
12	91	5%	0%
13	92	4%	-4%
14	90	5%	-7%
15	95	0%	-3%
16	88	0%	-10%



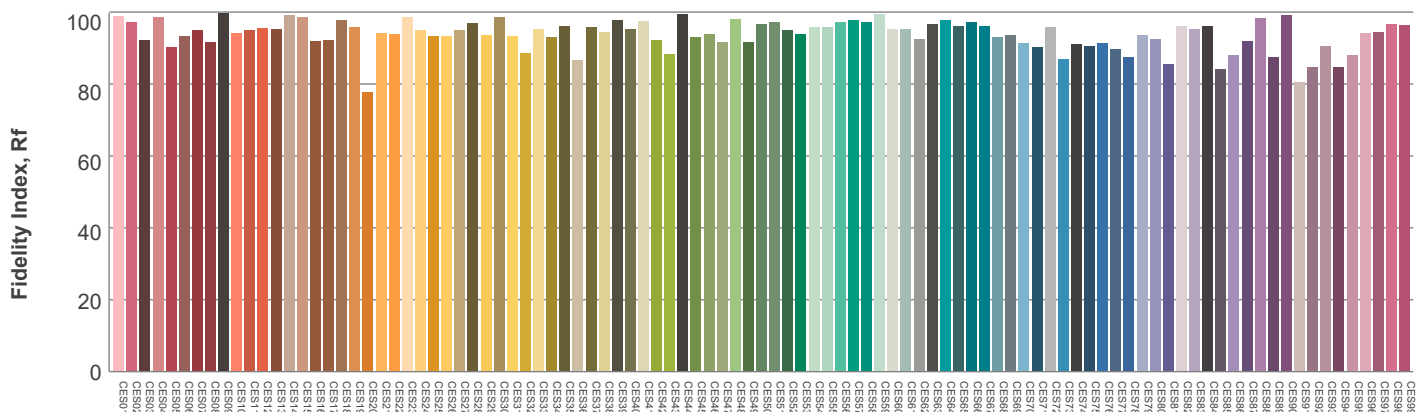
Color vector graphics



Color distortion

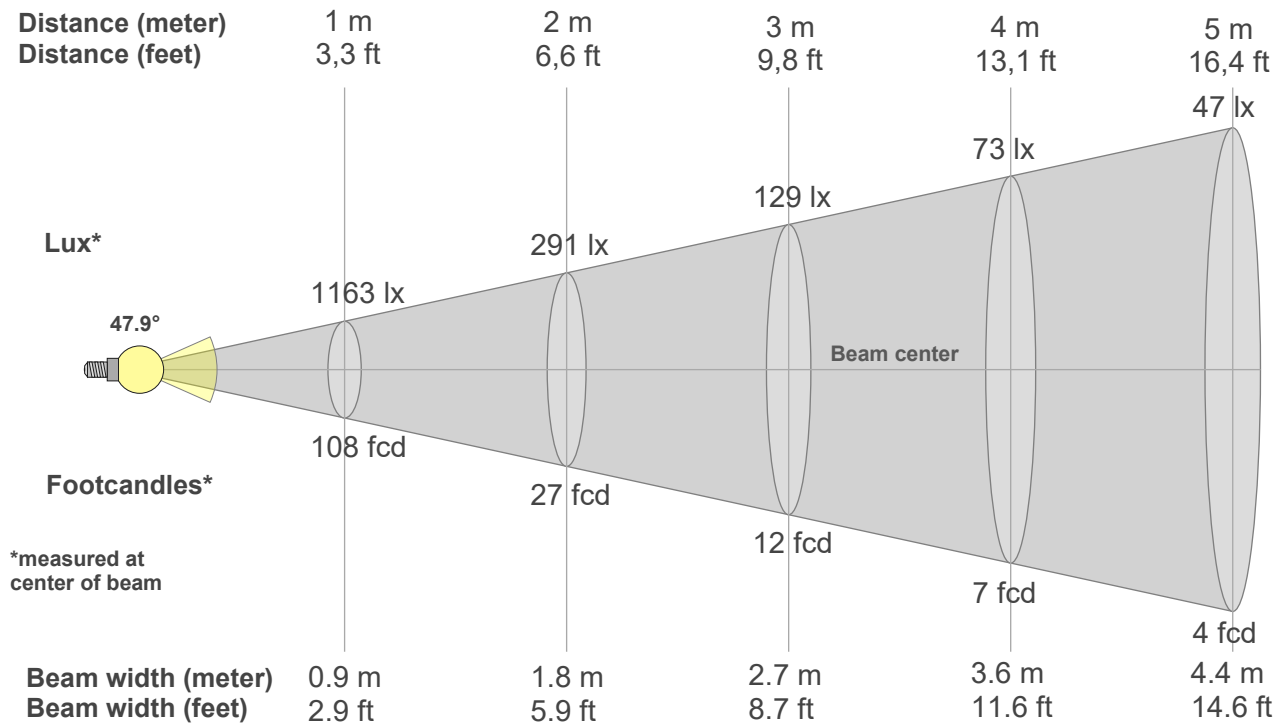


Hue bin



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
1163lx	291lx	129lx	73lx	47lx	32lx	24lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
108.1fcd	27fcd	12fcd	6.8fcd	4.3fcd	3fcd	2.2fcd	1.7fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd

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°
1163	1160	1150	1133	1109	1077	1036	982	917	843	759	670	580	495	418	348	282	220	157	98
100%	100%	99%	97%	95%	93%	89%	84%	79%	72%	65%	58%	50%	43%	36%	30%	24%	19%	14%	8%

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°
1163	1160	1150	1133	1109	1077	1036	982	917	843	759	670	580	495	418	348	282	220	157	98
100%	100%	99%	97%	95%	93%	89%	84%	79%	72%	65%	58%	50%	43%	36%	30%	24%	19%	14%	8%

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°
1163	1160	1150	1133	1109	1077	1036	982	917	843	759	670	580	495	418	348	282	220	157	98
100%	100%	99%	97%	95%	93%	89%	84%	79%	72%	65%	58%	50%	43%	36%	30%	24%	19%	14%	8%

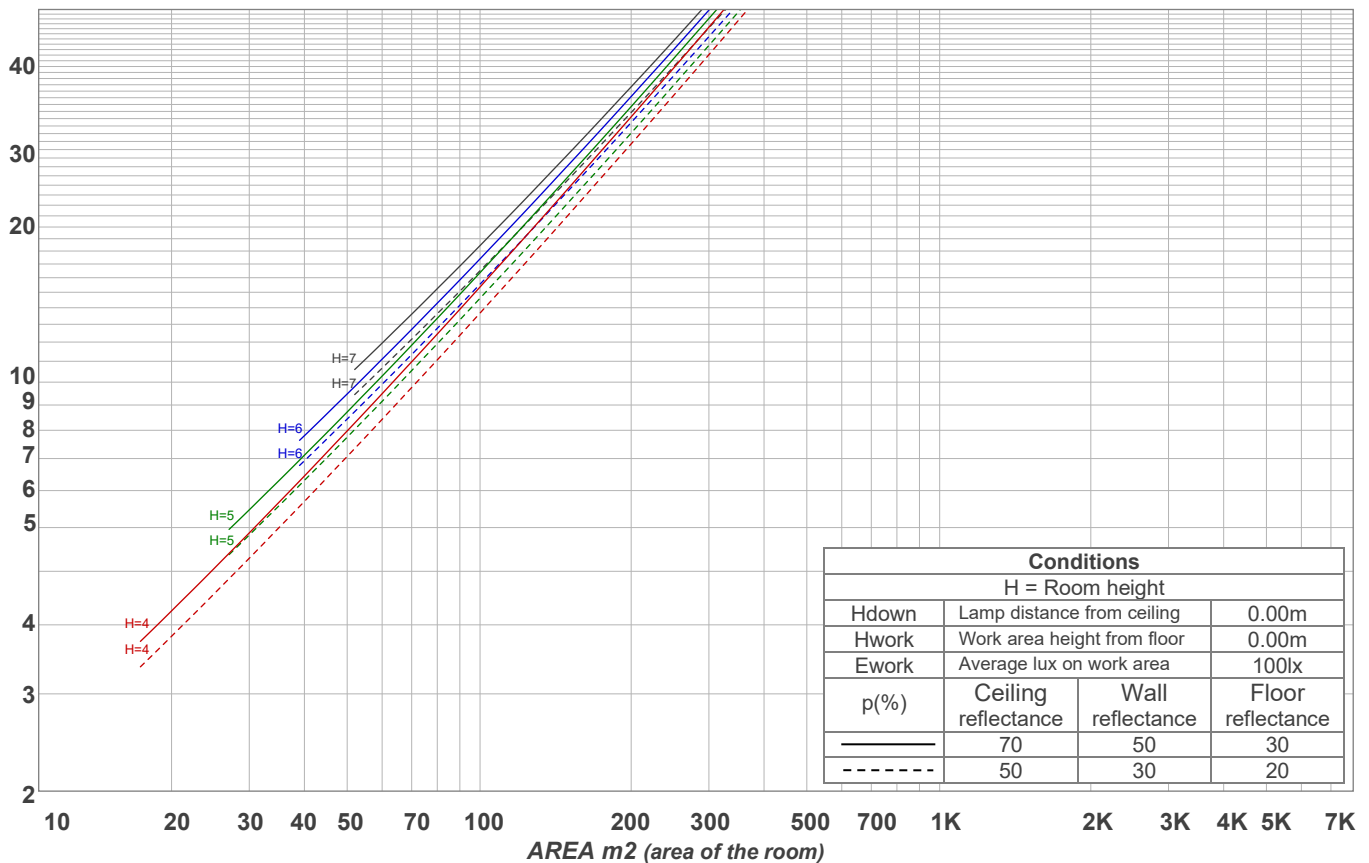
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1163	1160	1150	1133	1109	1077	1036	982	917	843	759	670	580	495	418	348	282	220	157	98
100%	100%	99%	97%	95%	93%	89%	84%	79%	72%	65%	58%	50%	43%	36%	30%	24%	19%	14%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
47.9°	74.7°	82.4°	99.1%	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84
4	99	93	88	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79
5	95	87	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
107 lm	262 lm	245 lm	115 lm	7.58 lm	2.40 lm	3.42 lm	1.87 lm	1.73 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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