specialty lighting industries

Light efficiency:

58 Lumen/Watt

Light quality:

CRI: 97.5

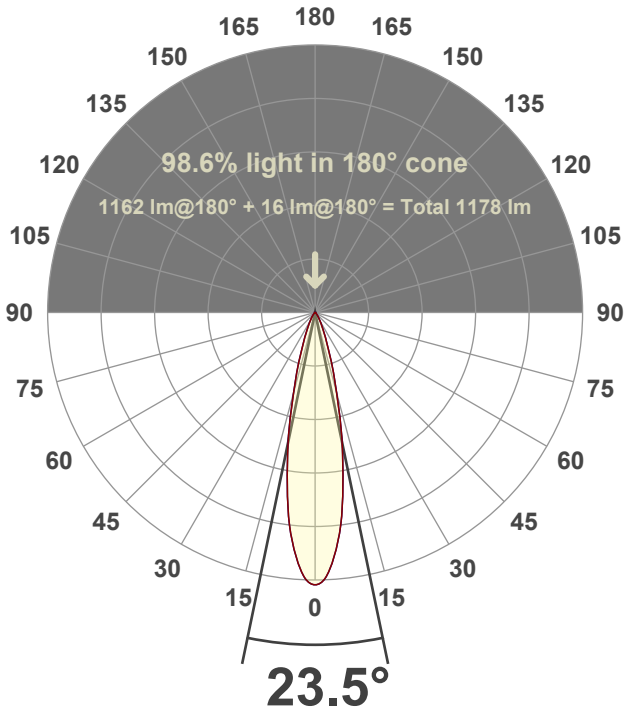
Output: 1162 lm

Peak: 5203 cd

Power: 20.0 W



Beam angle



Test number:
CR3D-RF-DR-A20-3018-15°

Luminaire Model:

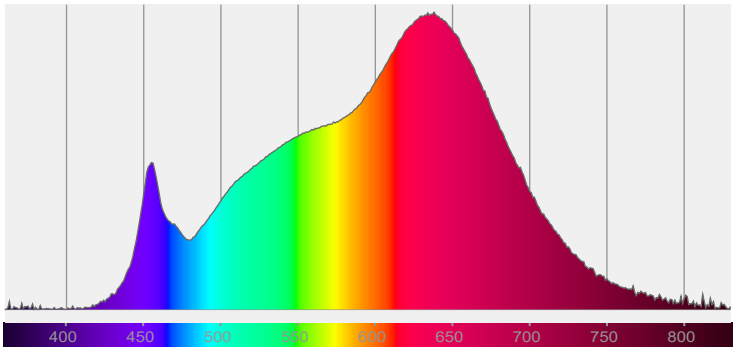
Date:
7/15/2026

LUM: 1162

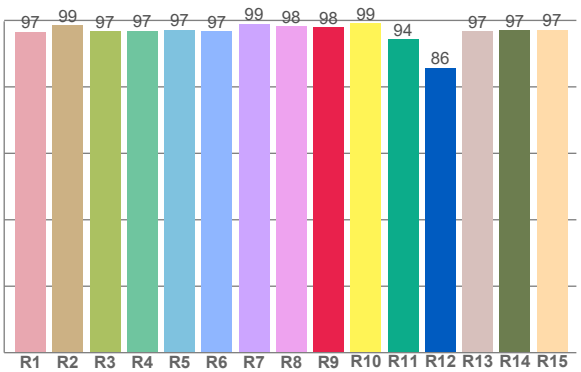
2984 K

***Variation due to source size, bezel geometry, or secondary optics**

Spectra



CRI: 97.5 (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 diviation from black body
	CRI	CRI R9	TM30 R_f	TM30 R_g	CQS	x	y	u	v	Δuv
	97.5	97.9	94.6	100.9	95.9	0.437	0.402	0.252	0.347	-0.0007

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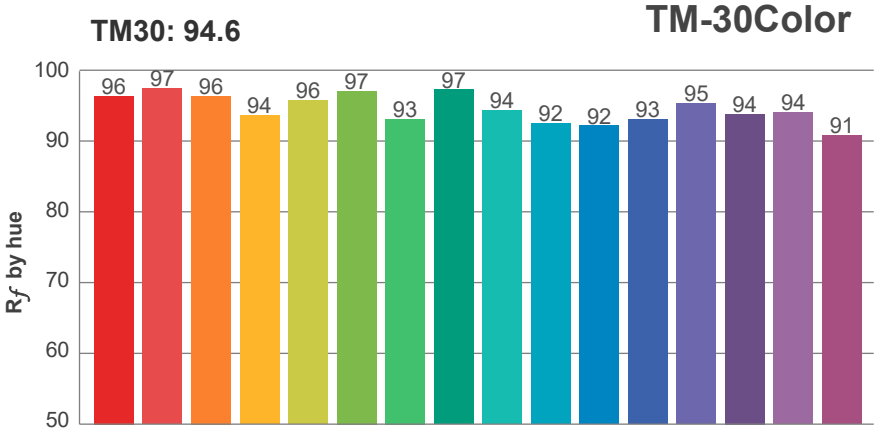
TM-30Color

R_f 94.6

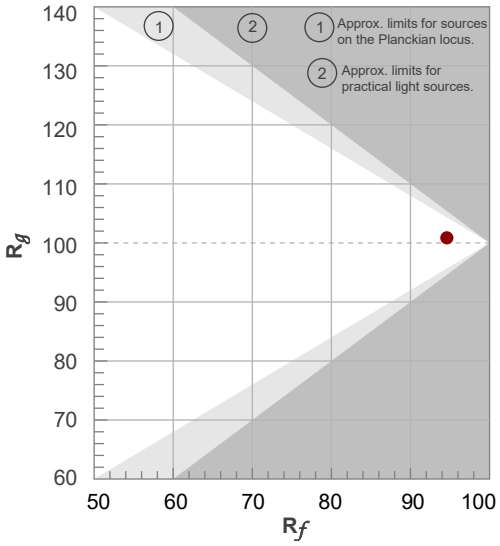
Fidelity index R_f

R_g 100.9

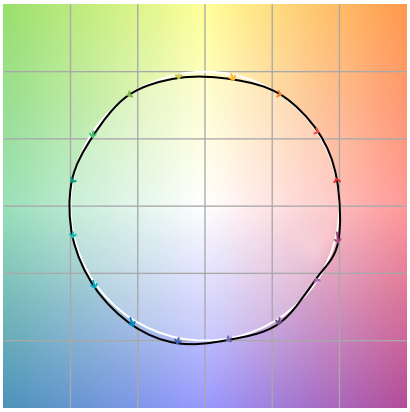
Gammut index R_g

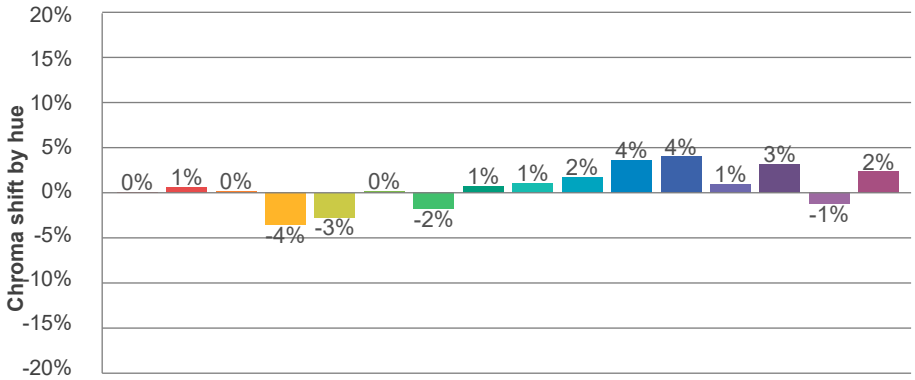


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	96	0%	-1%
4	94	-4%	-3%
5	96	-3%	1%
6	97	0%	2%
7	93	-2%	4%
8	97	1%	1%
9	94	1%	3%
10	92	2%	5%
11	92	4%	5%
12	93	4%	0%
13	95	1%	-3%
14	94	3%	-3%
15	94	-1%	1%
16	91	2%	-7%



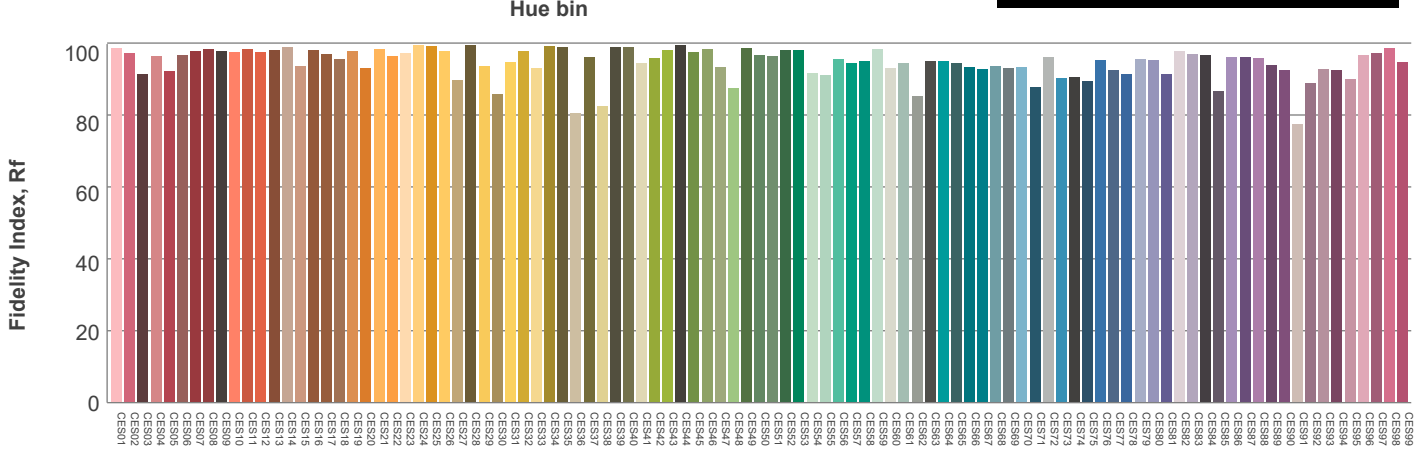
Color vector graphics





Color distortion

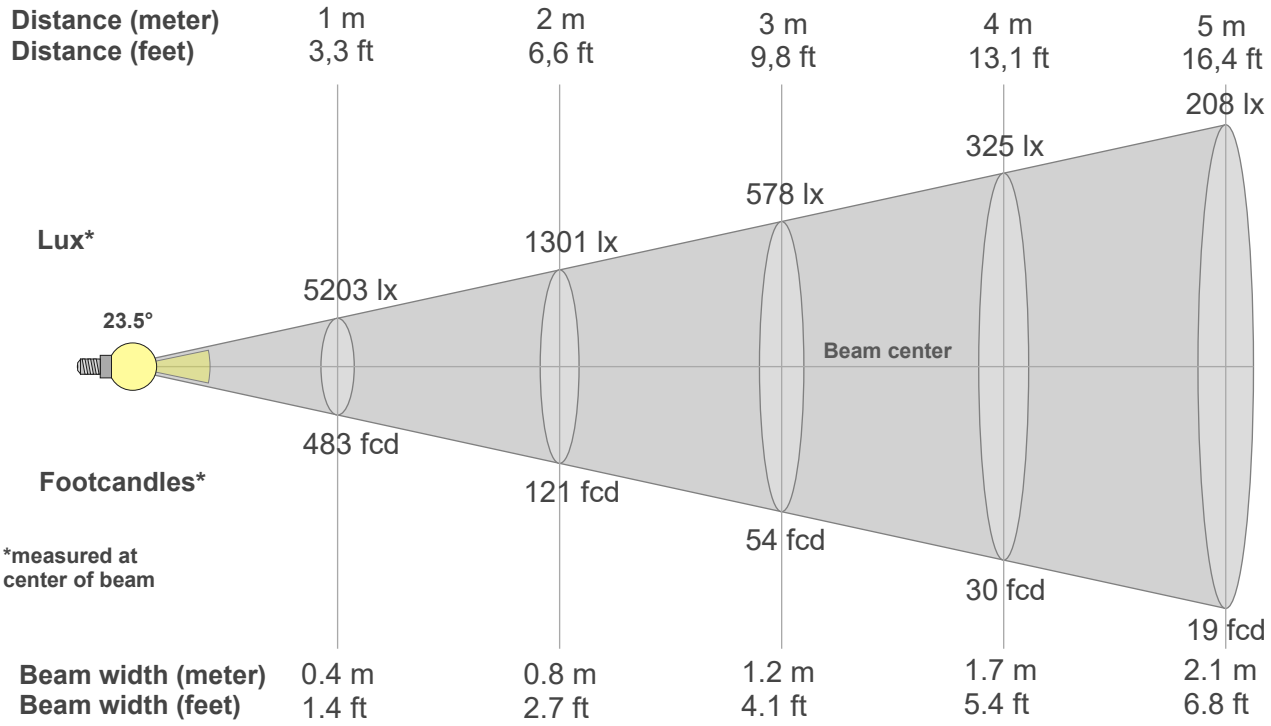




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Beam details



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
5203lx	1301lx	578lx	325lx	208lx	145lx	106lx	81lx	64lx	52lx	43lx	36lx	31lx	27lx	23lx	20lx	18lx	16lx	14lx	13lx
483.4fc	120.9fc	53.7fcd	30.2fcd	19.3fcd	13.4fcd	9.9fcd	7.6fcd	6fcd	4.8fcd	4fcd	3.4fcd	2.9fcd	2.5fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd

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°
5203	5203	4811	4378	3819	3162	2528	1976	1424	1090	787	574	441	320	257	193	155	123	97	77
100%	100%	92%	84%	73%	61%	49%	38%	27%	21%	15%	11%	8%	6%	5%	4%	3%	2%	2%	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°
5203	5203	4811	4378	3819	3162	2528	1976	1424	1090	787	574	441	320	257	193	155	123	97	77
100%	100%	92%	84%	73%	61%	49%	38%	27%	21%	15%	11%	8%	6%	5%	4%	3%	2%	2%	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°
5203	5203	4811	4378	3819	3162	2528	1976	1424	1090	787	574	441	320	257	193	155	123	97	77
100%	100%	92%	84%	73%	61%	49%	38%	27%	21%	15%	11%	8%	6%	5%	4%	3%	2%	2%	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°
5203	5203	4811	4378	3819	3162	2528	1976	1424	1090	787	574	441	320	257	193	155	123	97	77
100%	100%	92%	84%	73%	61%	49%	38%	27%	21%	15%	11%	8%	6%	5%	4%	3%	2%	2%	1%

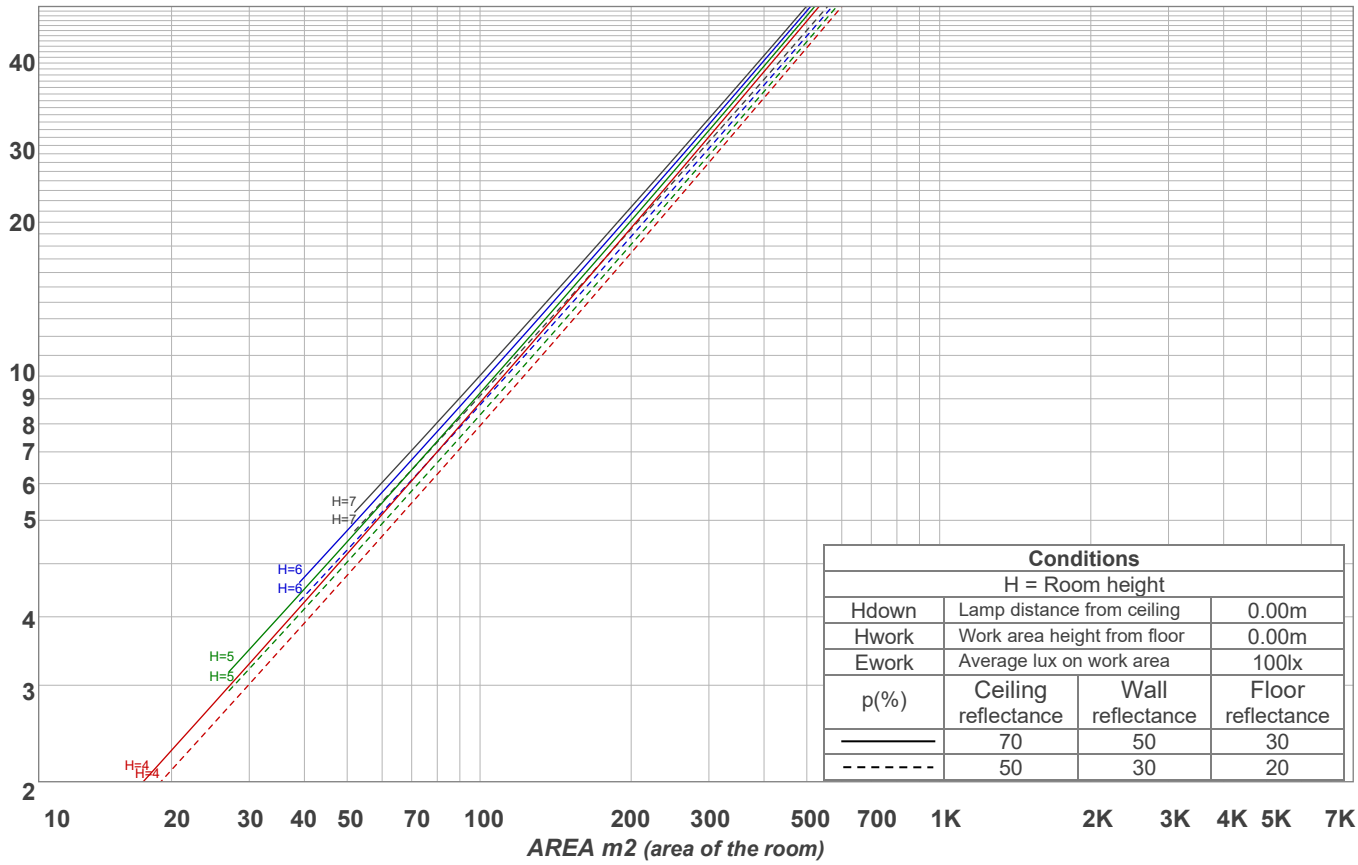
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.5°	45.6°	67.1°	98.6%	96.9%

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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	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	100	93	89	86	98	92	88	85	91	87	85	89	86	84	88	85	83	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	83	80	79
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77
8	91	84	79	76	90	83	79	76	82	79	76	81	78	76	81	78	75	74
9	88	81	77	74	87	81	77	74	80	76	74	79	76	73	78	75	73	72
10	86	79	75	72	85	78	74	72	78	74	71	77	74	71	76	73	71	70

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
398 lm	463 lm	179 lm	70.1 lm	26.4 lm	9.92 lm	6.69 lm	5.07 lm	4.09 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