

Light efficiency:

168 Lumen/Watt

Output: 1423 lm

Light quality:

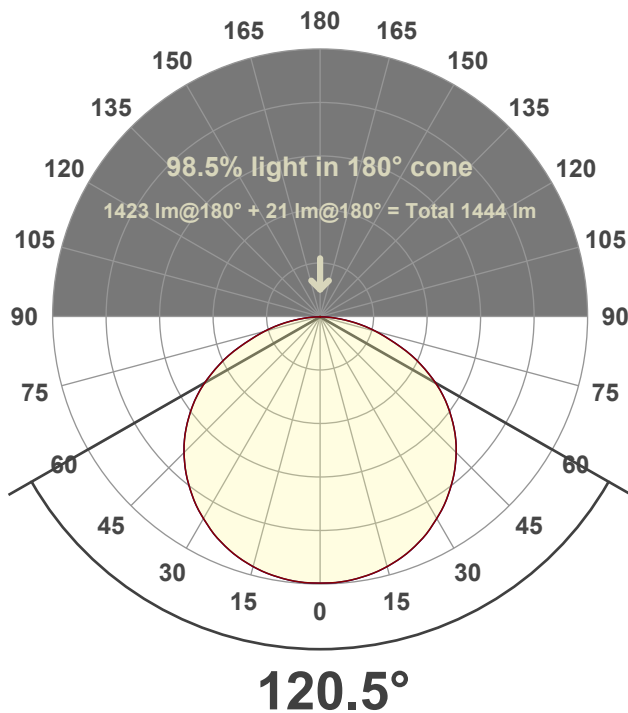
CRI: 93.4

Peak: 458 cd

Power: 8.5 W



Beam angle



Test number:

MSC-CV-F8-30K-1FT-SOURCE

Luminaire Model:

Date and time:

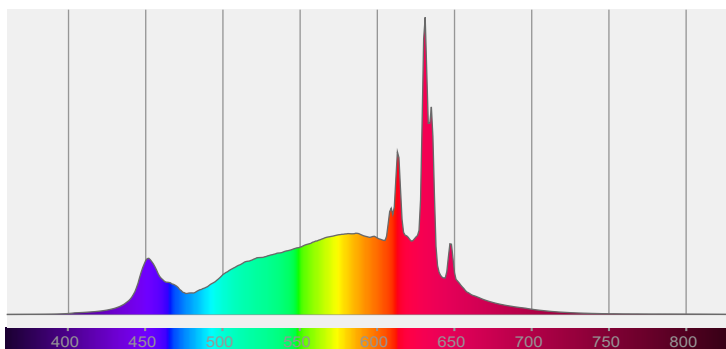
11/13/2024 11:50:59 AM

LUM: 1423

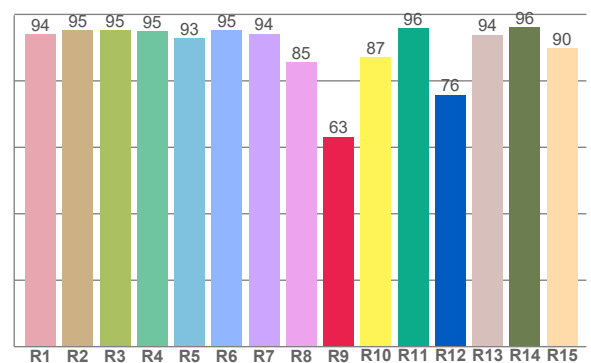
3097 K

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

Spectra



CRI: 93.4 (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
	93.4	63.2	90.9	98.2	91.6	0.435	0.411	0.246	0.349	0.0030

R_f 90.9

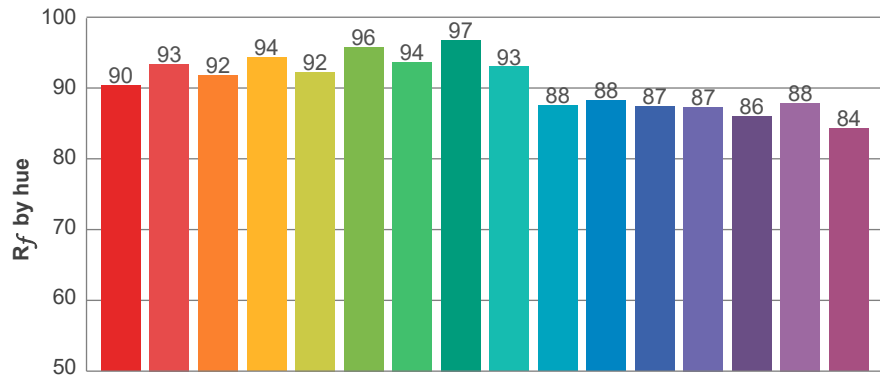
Fidelity index R_f

R_g 98.2

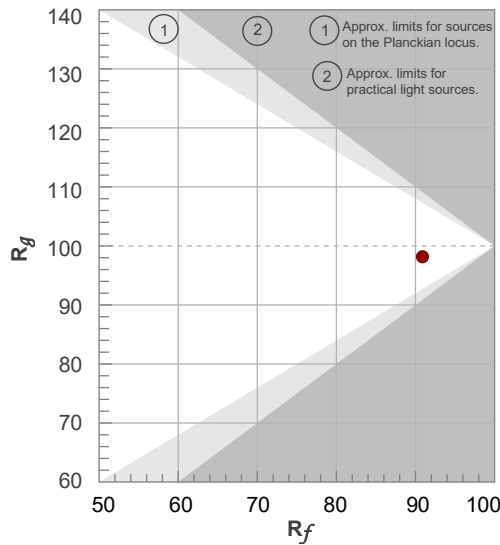
Gammut index R_g

TM30: 90.9

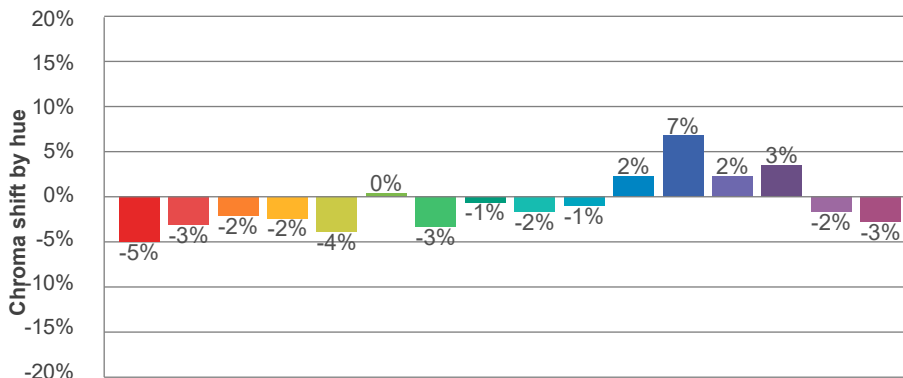
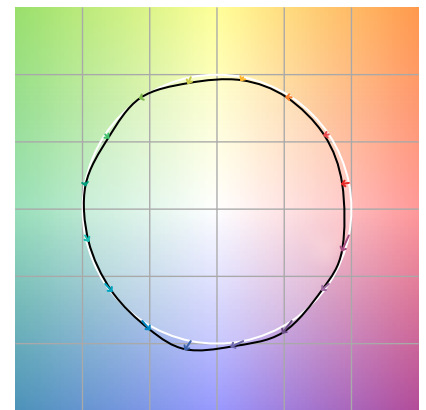
TM-30Color



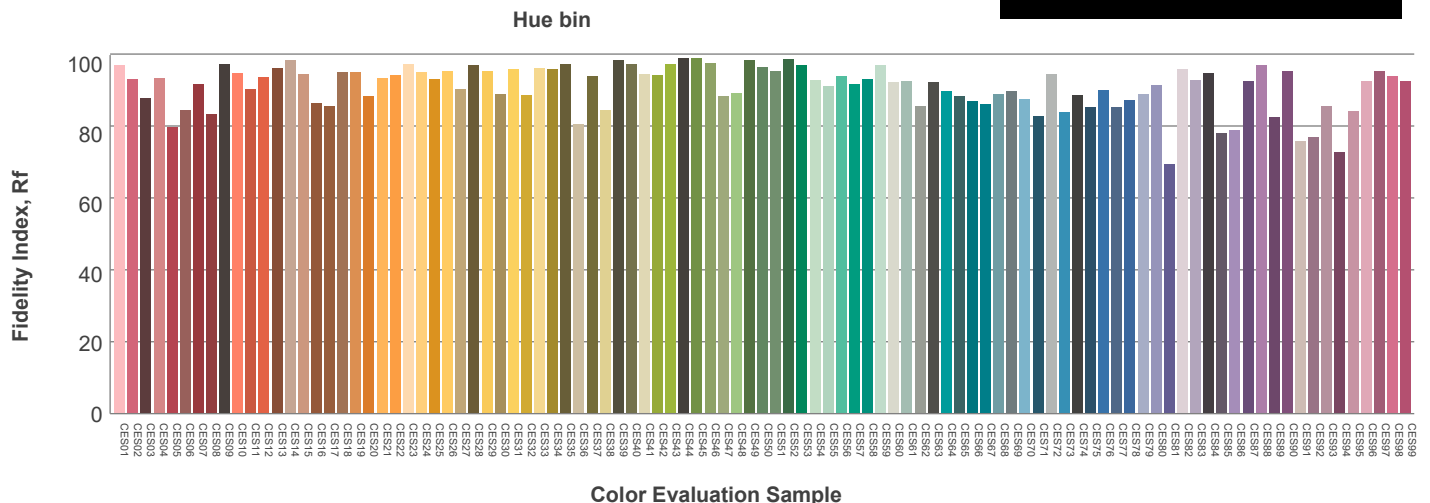
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	93	-3%	1%
3	92	-2%	3%
4	94	-2%	1%
5	92	-4%	3%
6	96	0%	2%
7	94	-3%	1%
8	97	-1%	2%
9	93	-2%	4%
10	88	-1%	7%
11	88	2%	8%
12	87	7%	-3%
13	87	2%	-9%
14	86	3%	-10%
15	88	-2%	-6%
16	84	-3%	-12%



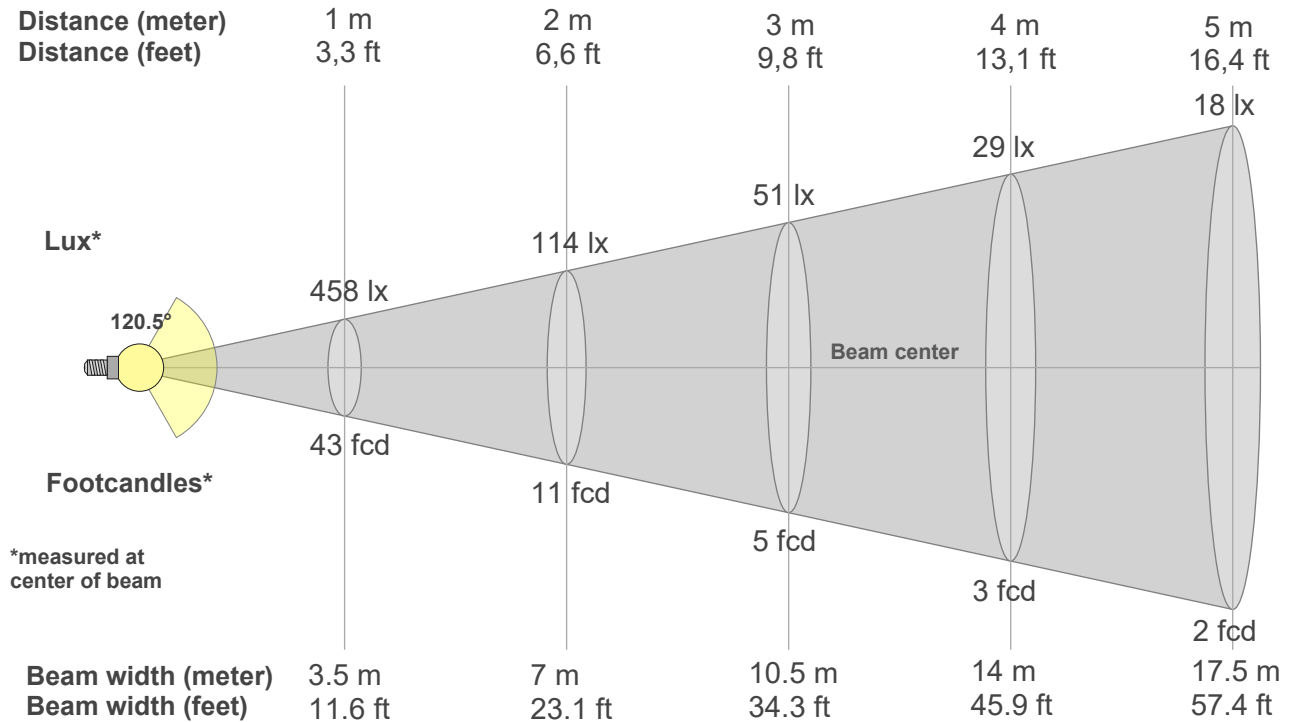
Color vector graphics



Color distortion



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
458lx	114lx	51lx	29lx	18lx	13lx	9lx	7lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
42.5fcd	10.6fcd	4.7fcd	2.7fcd	1.7fcd	1.2fcd	0.9fcd	0.7fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
458	456	452	444	433	419	401	380	357	331	302	268	231	189	144	102	64	28	5	0
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	66%	59%	50%	41%	31%	22%	14%	6%	1%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
458	456	452	444	433	419	401	380	357	331	302	268	231	189	144	102	64	28	5	0
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	66%	59%	50%	41%	31%	22%	14%	6%	1%	0%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
458	456	452	444	433	419	401	380	357	331	302	268	231	189	144	102	64	28	5	0
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	66%	59%	50%	41%	31%	22%	14%	6%	1%	0%

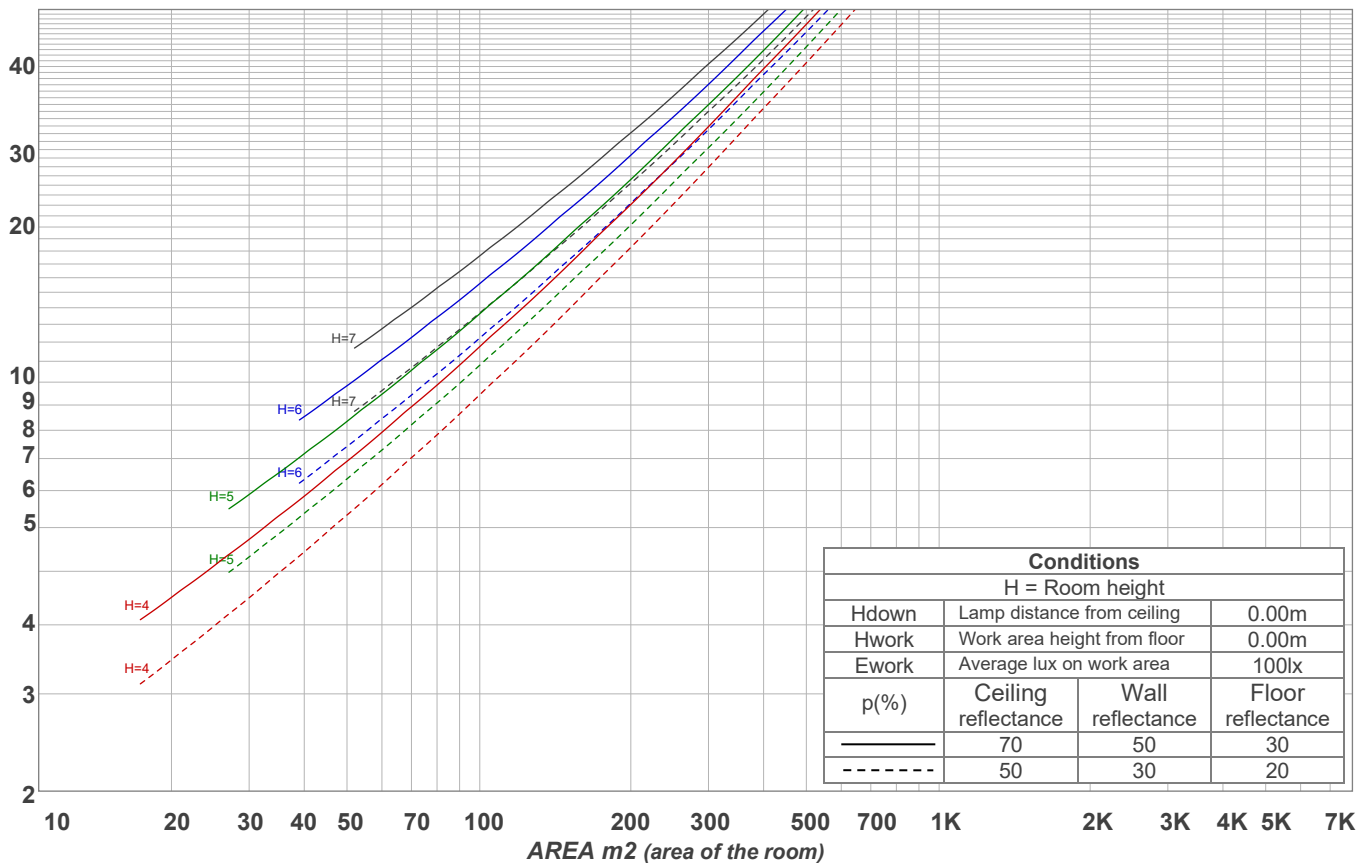
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
458	456	452	444	433	419	401	380	357	331	302	268	231	189	144	102	64	28	5	0
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	66%	59%	50%	41%	31%	22%	14%	6%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
120.5°	164.9°	176.3°	77.0%	51.1%

Light planning Luminaire budgetary diagram

LAMPS (number of lamps)
50



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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
43.4 lm	126 lm	193 lm	238 lm	255 lm	239 lm	187 lm	108 lm	32.8 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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