

Light efficiency:

87 Lumen/Watt

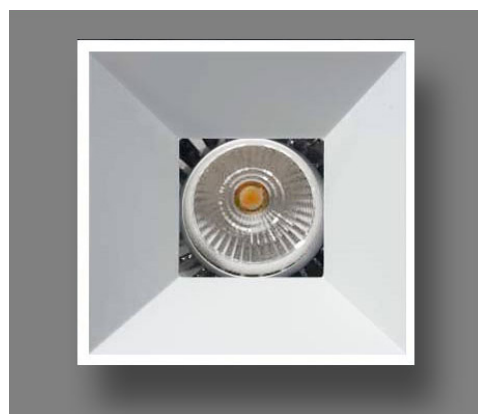
Light quality:

CRI: 93.6

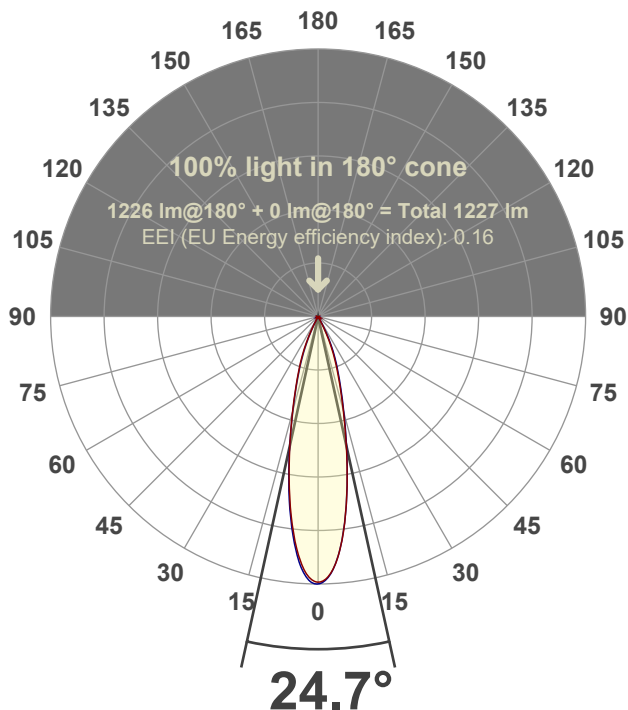
Output: 1226 lm

Peak: 5374 cd

Power: 14.2 W



Beam angle



Test number:

GR-F-CZ14-30k-NF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-CZ14 30k 24° Optic

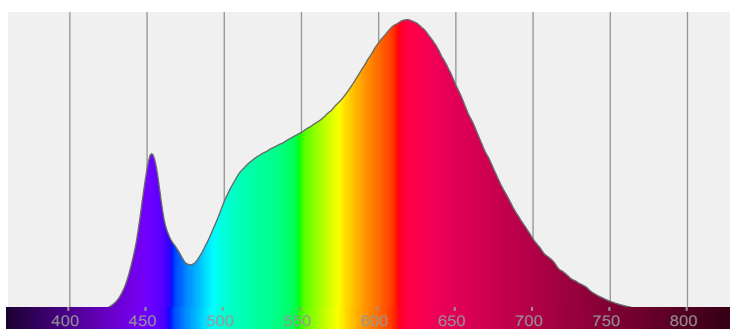
Date and time:

6/30/2022 8:31:12 PM

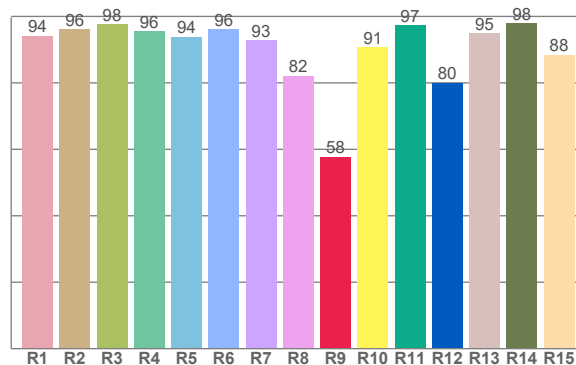
Delivered Lumens

1226

Spectra



CRI: 93.6 (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
	93.6	57.8	92.3	99.2	91.9	0.438	0.408	0.249	0.349	0.0014

R_f 92.3

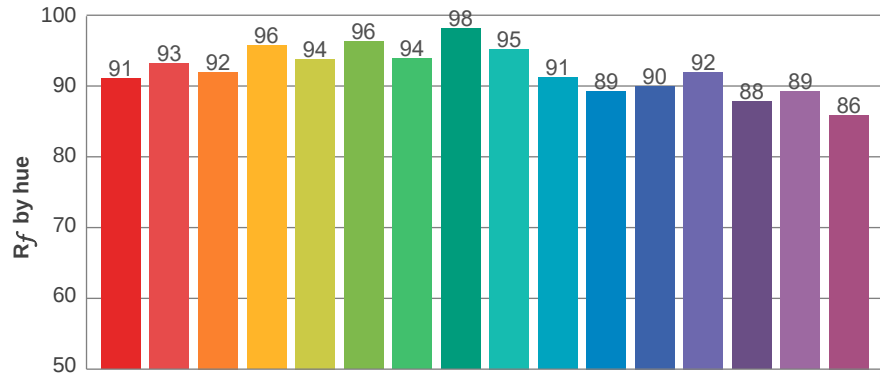
Fidelity index R_f

R_g 99.2

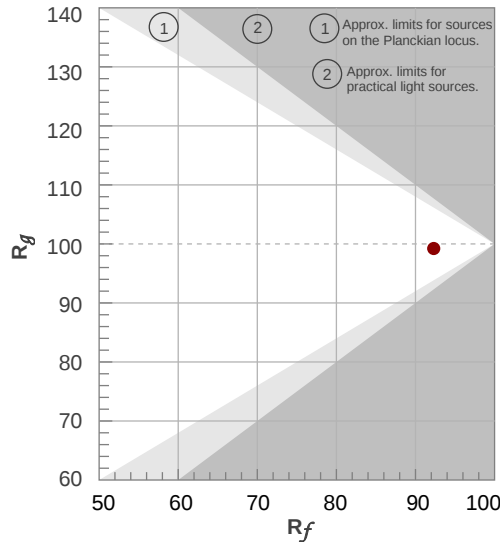
Gammut index R_g

TM30: 92.3

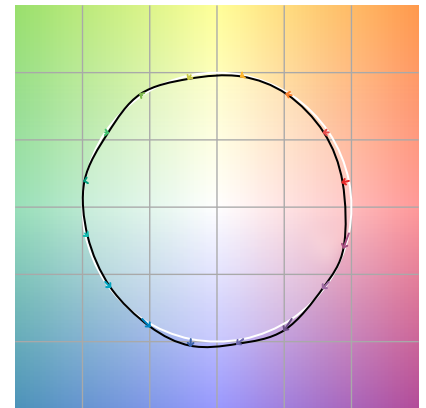
TM-30Color



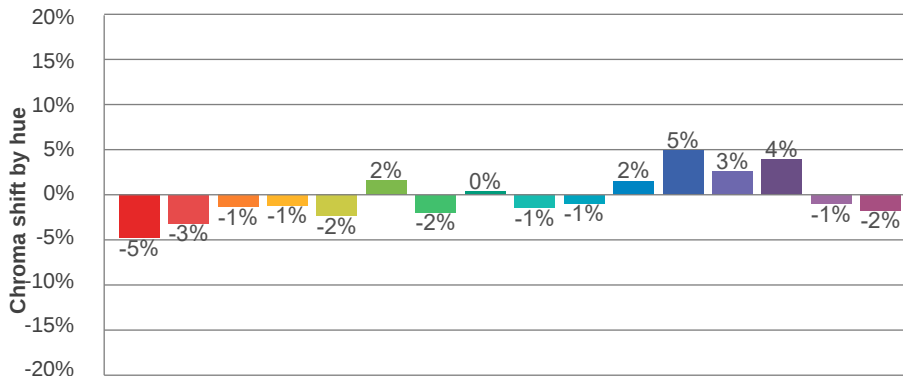
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	2%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



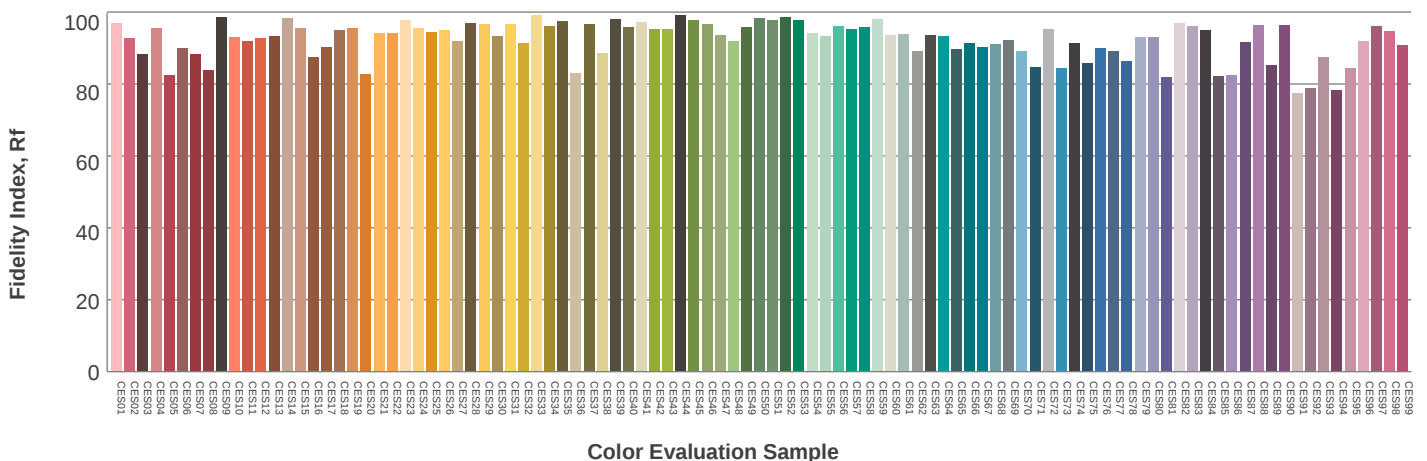
Color vector graphics



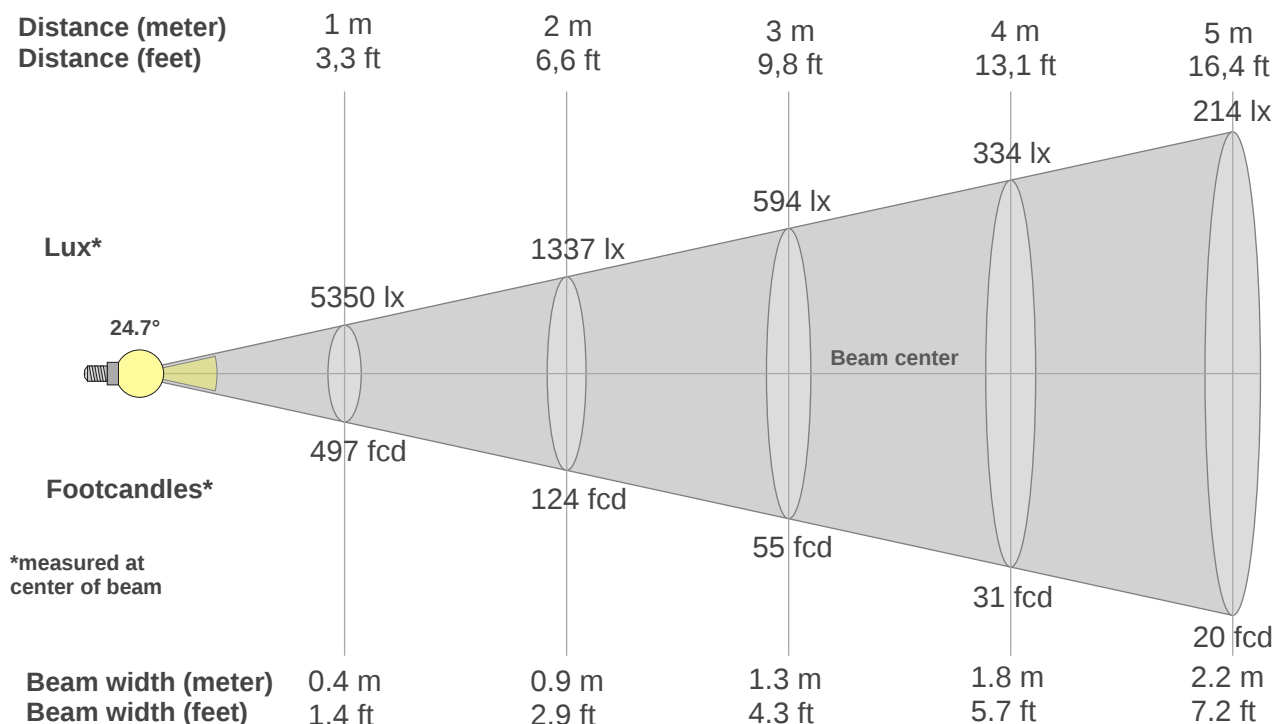
Color distortion



Hue bin



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
5350lx	1337lx	594lx	334lx	214lx	149lx	109lx	84lx	66lx	53lx	44lx	37lx	32lx	27lx	24lx	21lx	19lx	17lx	15lx	13lx
497fcd	124.3fcd	55.2fcd	31.1fcd	19.9fcd	13.8fcd	10.1fcd	7.8fcd	6.1fcd	5fcd	4.1fcd	3.5fcd	2.9fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd	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°
5350	5265	4988	4545	3991	3384	2778	2216	1768	1407	1112	856	617	387	192	72	24	16	13	11
100%	98%	93%	85%	75%	63%	52%	41%	33%	26%	21%	16%	12%	7%	4%	1%	0%	0%	0%	0%

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°
5350	5253	4974	4544	3994	3381	2796	2269	1823	1461	1168	935	707	483	279	117	28	17	14	11
100%	98%	93%	85%	75%	63%	52%	42%	34%	27%	22%	17%	13%	9%	5%	2%	1%	0%	0%	0%

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°
5350	5227	4942	4508	3968	3369	2782	2254	1800	1426	1126	876	634	406	210	75	22	18	15	11
100%	98%	92%	84%	74%	63%	52%	42%	34%	27%	21%	16%	12%	8%	4%	1%	0%	0%	0%	0%

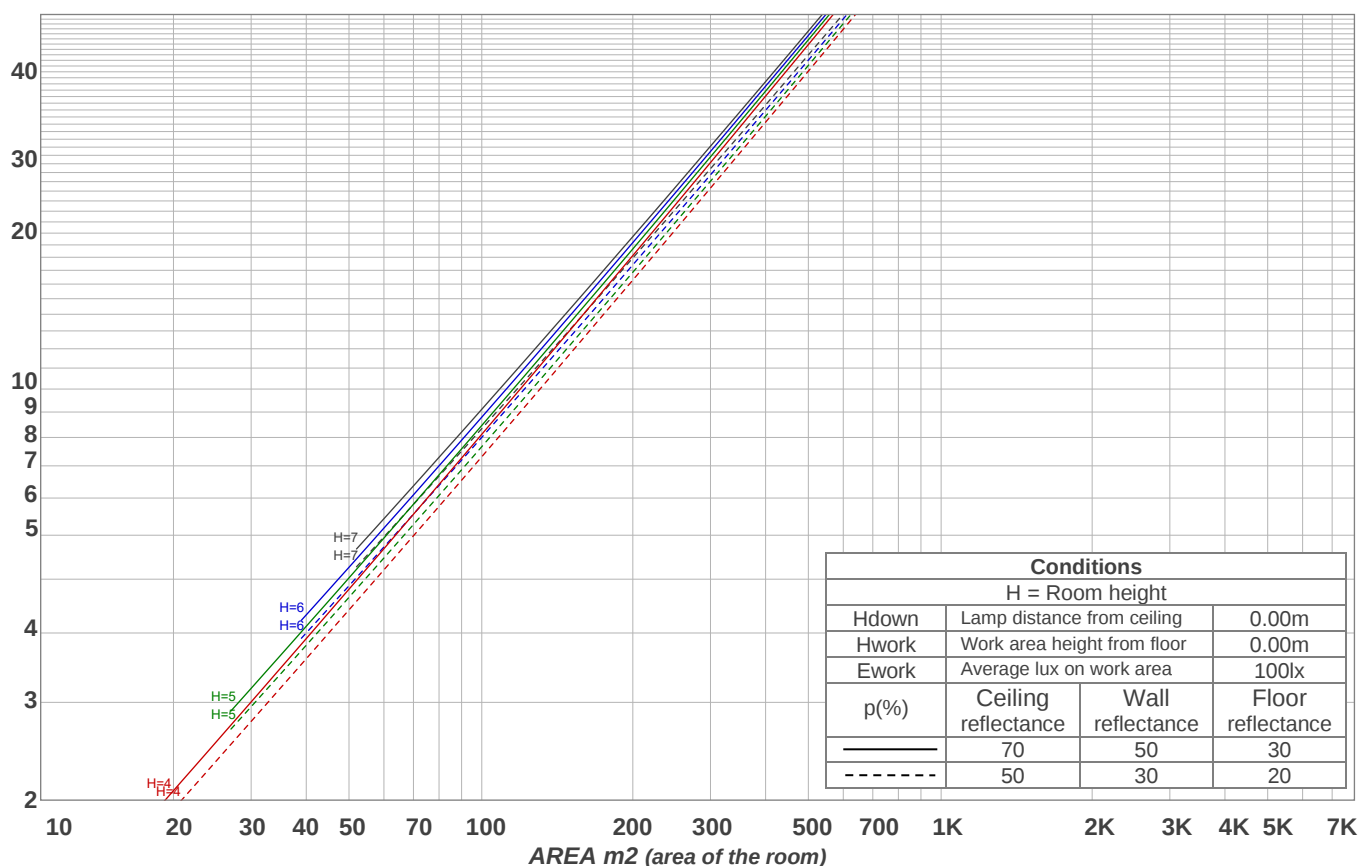
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5350	5307	5040	4576	4022	3414	2797	2225	1751	1383	1074	798	543	312	135	48	20	15	12	10
100%	99%	94%	86%	75%	64%	52%	42%	33%	26%	20%	15%	10%	6%	3%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.7°	49.6°	57.6°	99.2%	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	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	108	103	99	96	106	101	98	95	99	96	94	97	94	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	90	88	93	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	89	86	83	88	85	83	82
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	83	80	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77
9	90	84	80	77	89	83	79	77	82	79	76	82	79	76	81	78	76	75
10	88	81	77	75	87	81	77	75	80	77	74	80	76	74	79	76	74	73

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
411 lm	557 lm	231 lm	11.7 lm	4.14 lm	2.80 lm	2.78 lm	2.90 lm	3.57 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