

Light efficiency:



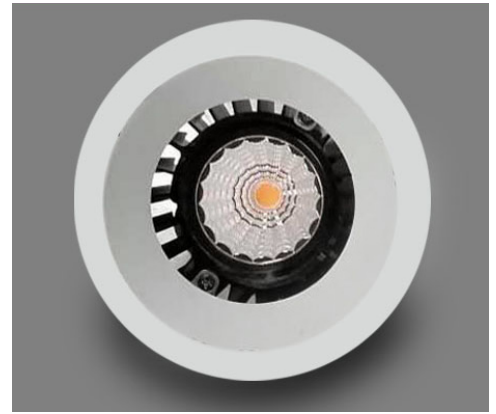
Output: 1341 lm

Light quality:

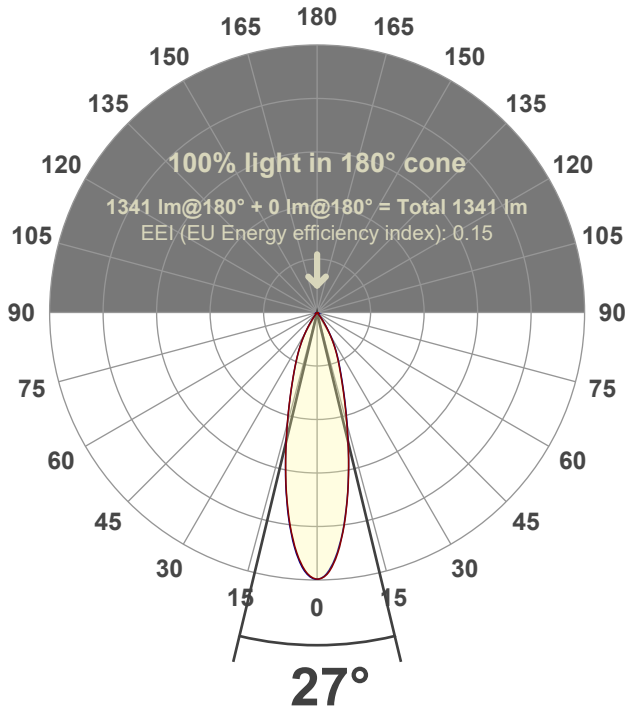


Peak: 4227 cd

Power: 14.1 W



Beam angle



Test number:

GR-O-F-CZ14-30k-NF-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-CZ14 30k 24° Optic-Solite

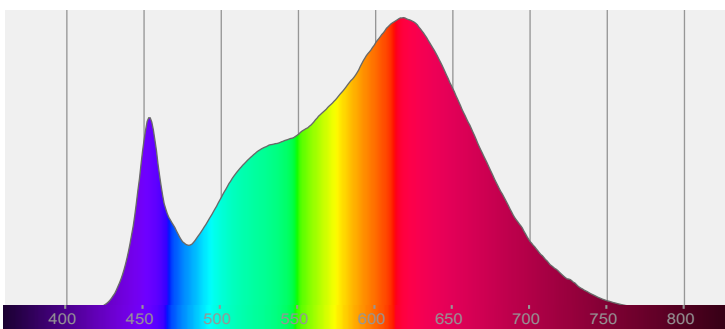
Date and time:

3/2/2022 11:06:30 PM

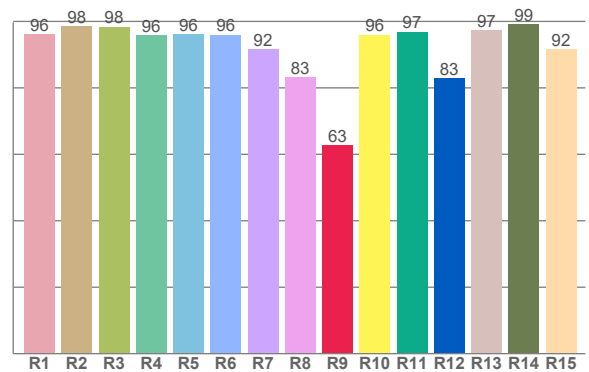
Delivered Lumens

1341

Spectra



CRI: 94.4 (R1-R8)



Color parameters

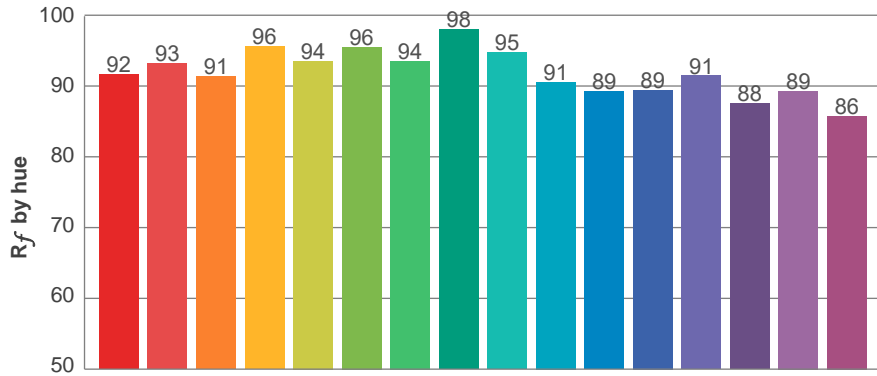
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
94.4	62.7	92.1	100.4	91.7	0.426	0.394	0.248	0.344	-0.0026

R_f 92.1
Fidelity index R_f

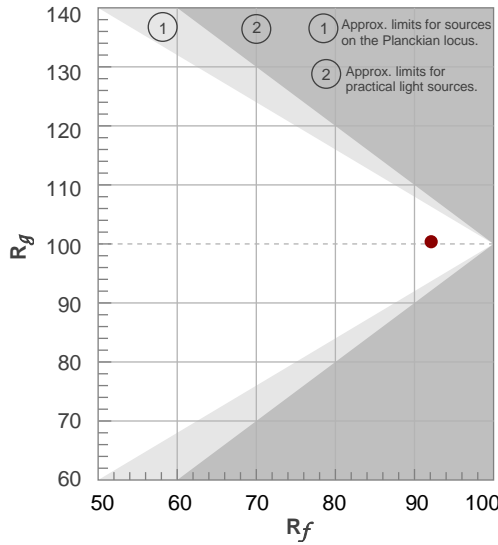
R_g 100.4
Gammut index R_g

TM30: 92.1

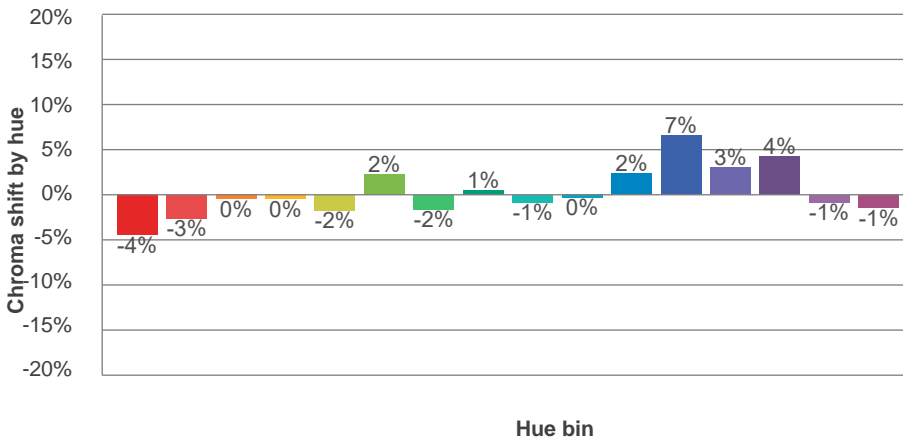
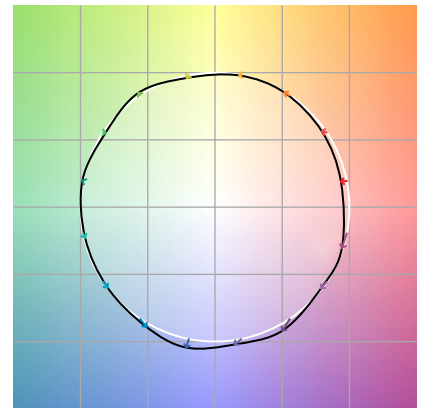
TM-30Color



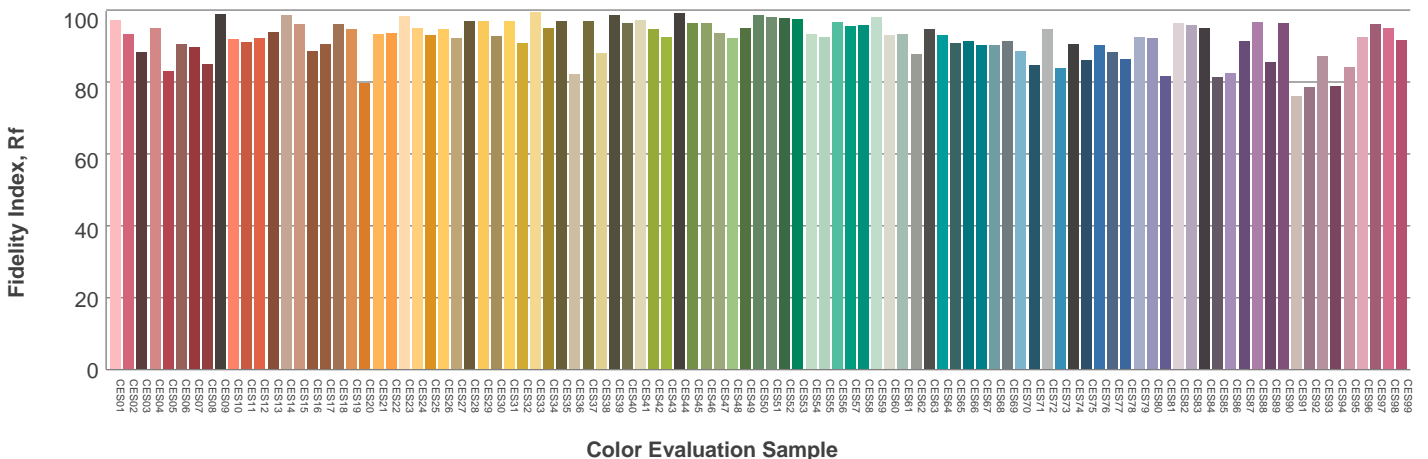
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	3%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	96	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-6%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



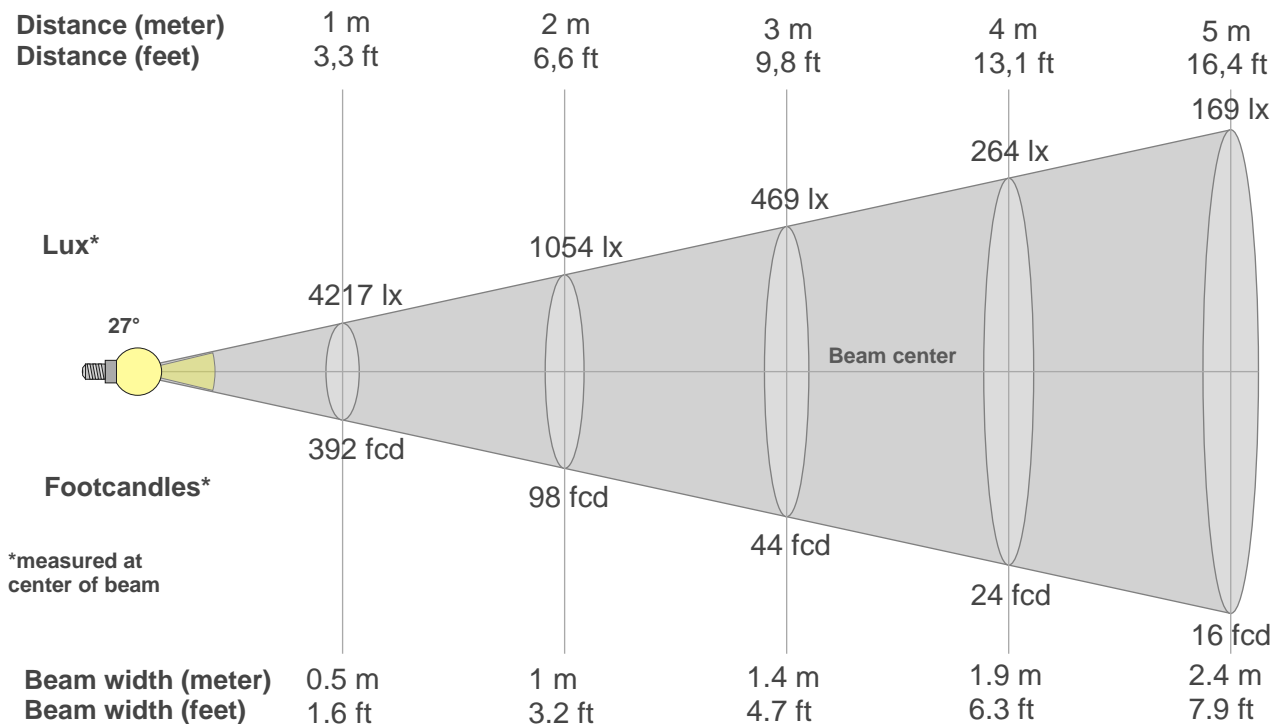
Color vector graphics



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
4217lx	1054lx	469lx	264lx	169lx	117lx	86lx	66lx	52lx	42lx	35lx	29lx	25lx	22lx	19lx	16lx	15lx	13lx	12lx	11lx
391.8fcd	97.9fcd	43.5fcd	24.5fcd	15.7fcd	10.9fcd	8fcd	6.1fcd	4.8fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd	1fcd

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°
4217	4149	3941	3630	3249	2833	2412	2018	1675	1386	1149	961	816	685	557	435	324	226	153	101
100%	98%	93%	86%	77%	67%	57%	48%	40%	33%	27%	23%	19%	16%	13%	10%	8%	5%	4%	2%

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°
4217	4144	3927	3610	3231	2822	2411	2018	1690	1409	1176	988	835	702	575	457	346	247	166	111
100%	98%	93%	86%	77%	67%	57%	48%	40%	33%	28%	23%	20%	17%	14%	11%	8%	6%	4%	3%

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°
4217	4136	3925	3619	3245	2831	2408	2019	1676	1384	1144	954	800	664	537	417	307	210	141	94
100%	98%	93%	86%	77%	67%	57%	48%	40%	33%	27%	23%	19%	16%	13%	10%	7%	5%	3%	2%

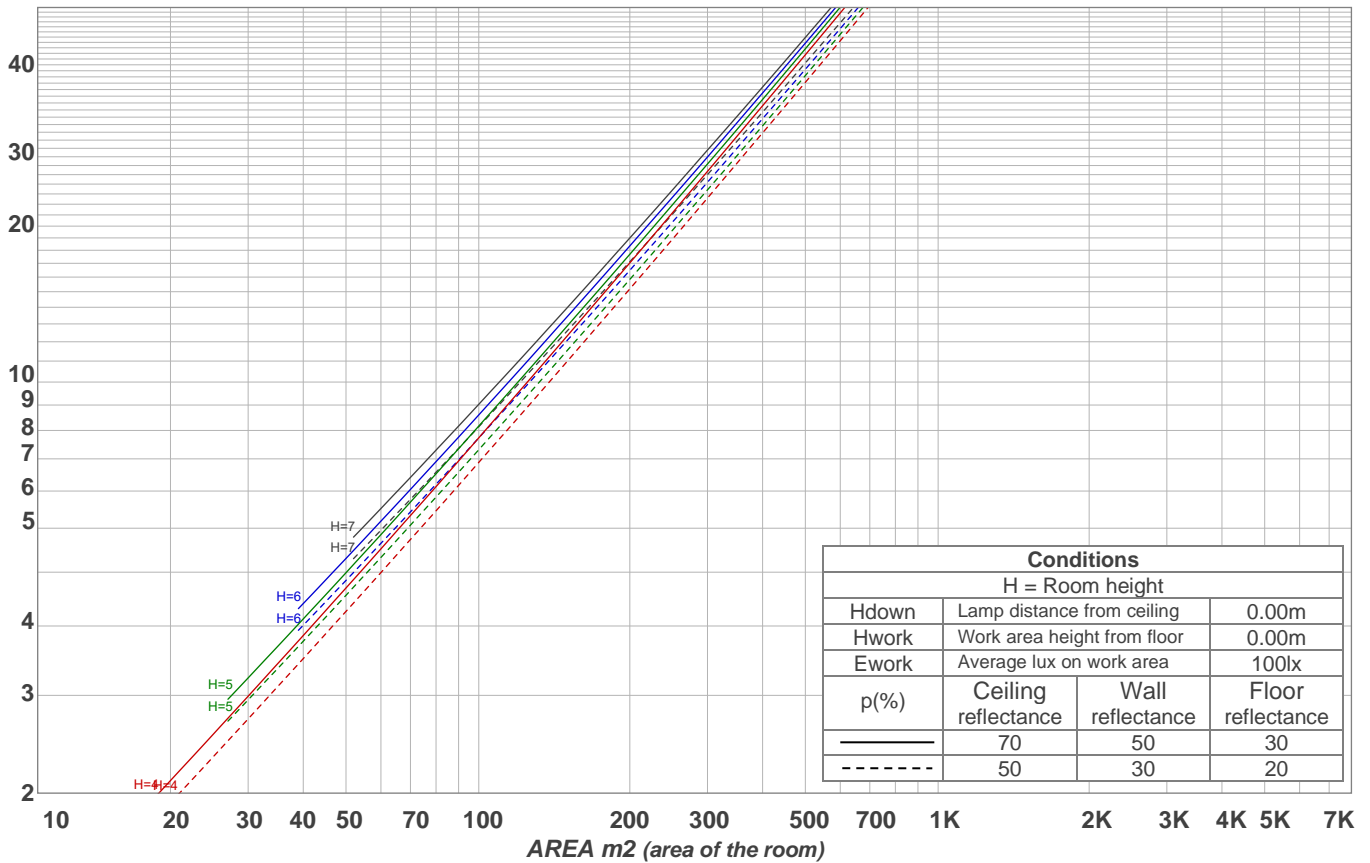
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4217	4141	3948	3648	3270	2844	2419	2021	1667	1369	1130	947	793	654	526	405	296	208	140	91
100%	98%	94%	86%	78%	67%	57%	48%	40%	32%	27%	22%	19%	16%	12%	10%	7%	5%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27°	60.2°	75.3°	99.1%	98.3%

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	50	30	10	0
Floor reflectance	20	20	20	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	100	100	
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86	86	86	
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	
5	98	91	86	83	96	90	86	82	88	85	82	87	83	81	85	82	80	79	79	79	
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73	73	73	
8	88	80	75	72	87	79	75	72	78	74	71	78	74	71	77	73	71	70	70	70	
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67	67	67	
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65	65	65	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
330 lm	510 lm	340 lm	124 lm	20.1 lm	5.39 lm	4.08 lm	4.00 lm	3.58 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