

Light efficiency:



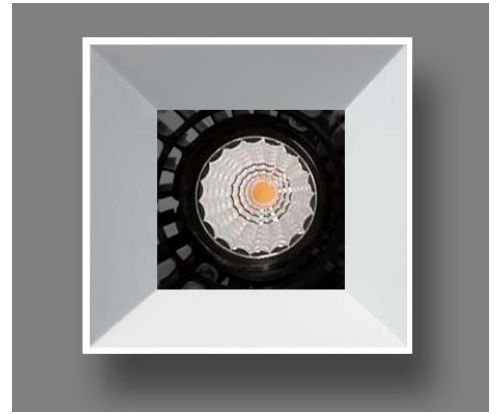
Output: 1475 lm

Light quality:

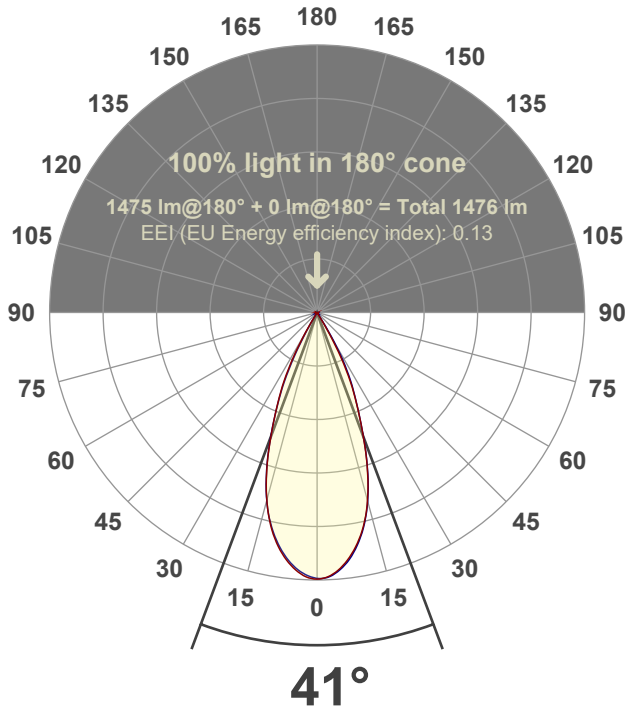


Peak: 3308 cd

Power: 14.2 W



Beam angle



Test number:

GR-O-F-CZ14-30k-FL-SQ-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-CZ14 30k 38° Optic

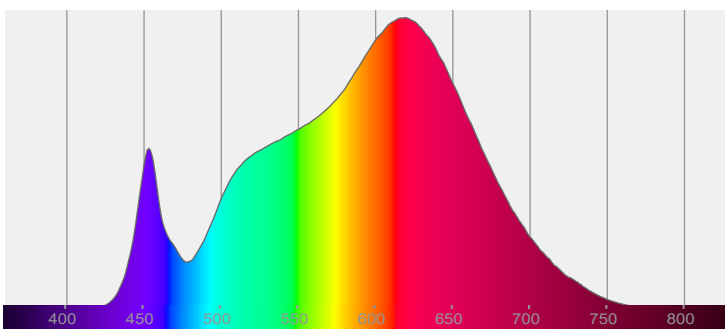
Date and time:

6/30/2022 8:20:39 PM

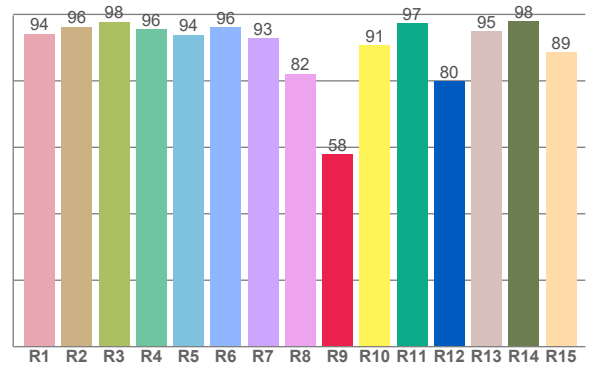
Delivered Lumens

1475

Spectra



CRI: 93.6 (R1-R8)



Color parameters

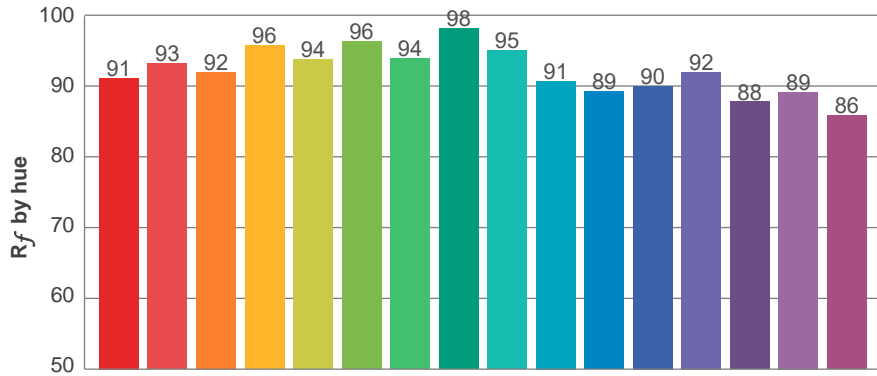
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.6	57.8	92.3	99.2	91.9	0.437	0.407	0.249	0.348	0.0014

R_f 92.3
Fidelity index R_f

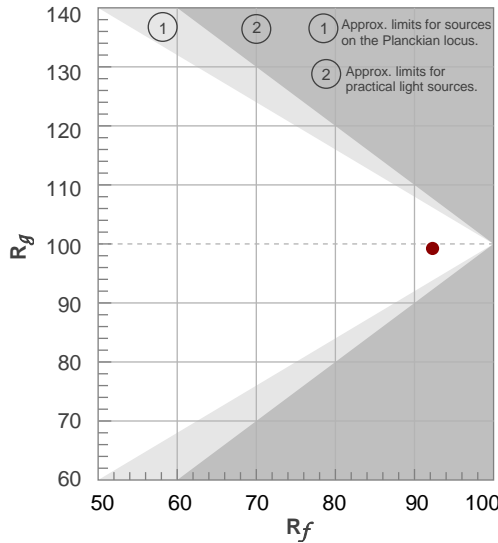
R_g 99.2
Gammut index R_g

TM30: 92.3

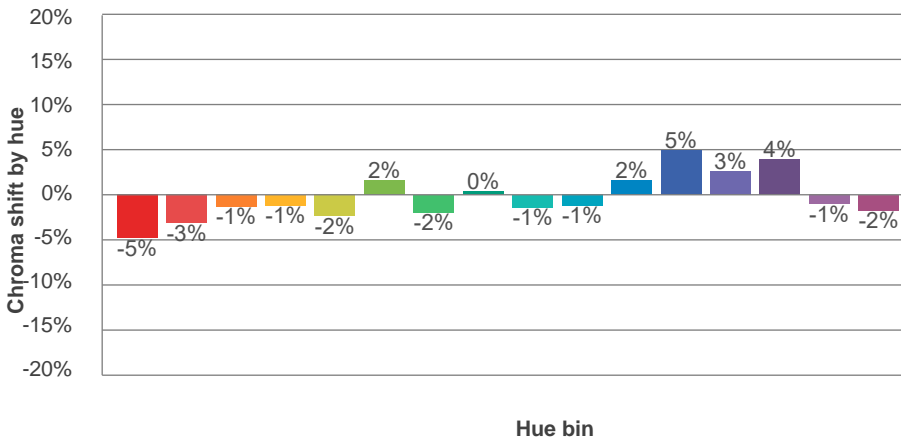
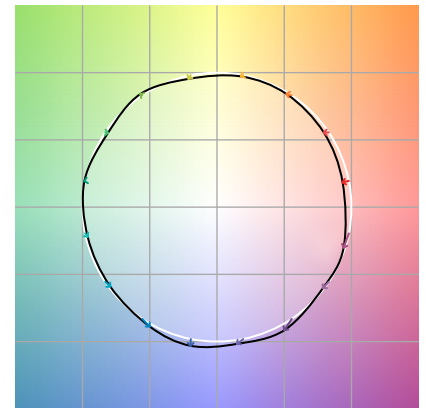
TM-30Color



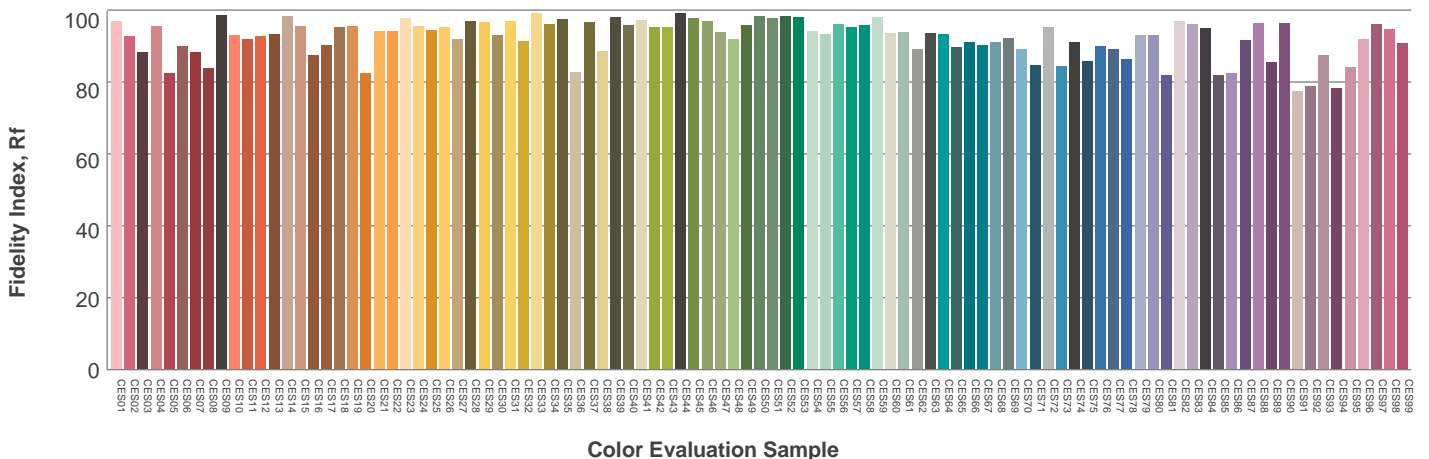
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



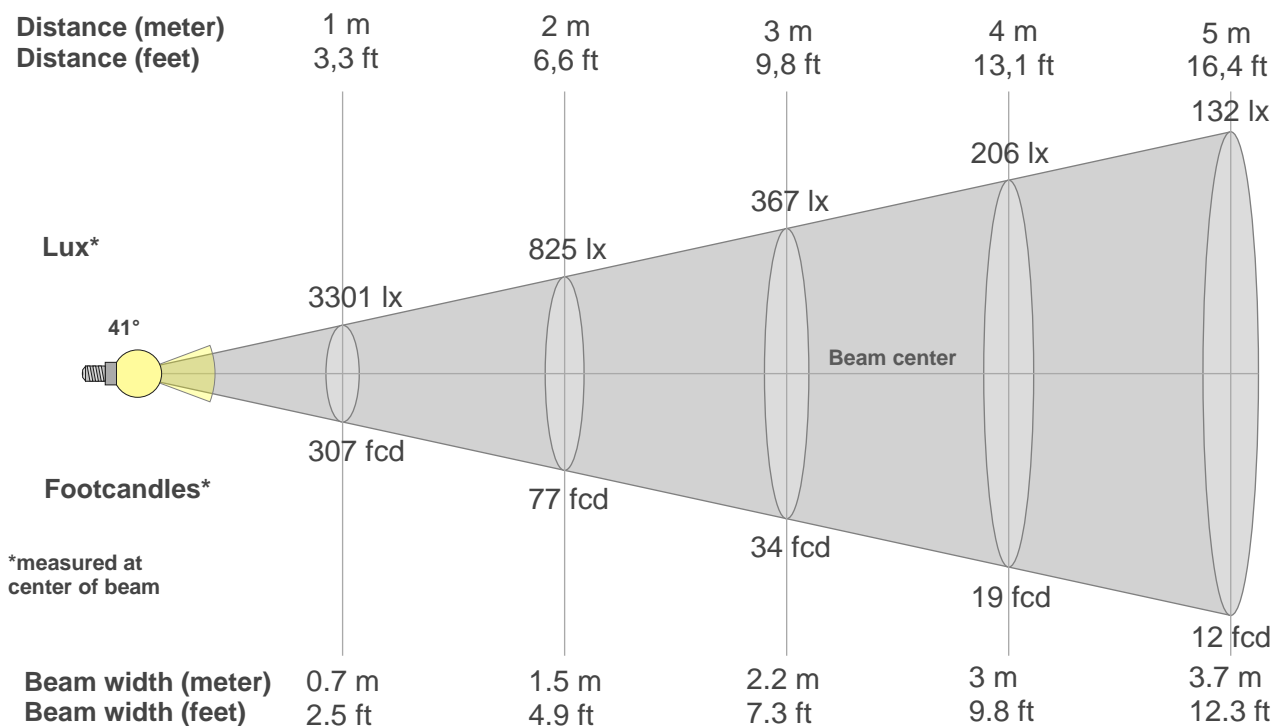
Color vector graphics



Color distortion



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
3301lx	825lx	367lx	206lx	132lx	92lx	67lx	52lx	41lx	33lx	27lx	23lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx
306.7fc	76.7fcd	34.1fcd	19.2fcd	12.3fcd	8.5fcd	6.3fcd	4.8fcd	3.8fcd	3.1fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.8fcd

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°
3301	3286	3229	3143	3032	2896	2733	2536	2292	2018	1723	1435	1173	929	656	372	152	42	14	9
100%	100%	98%	95%	92%	88%	83%	77%	69%	61%	52%	43%	36%	28%	20%	11%	5%	1%	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°
3301	3287	3240	3160	3053	2915	2747	2540	2298	2023	1727	1434	1181	971	739	480	237	70	15	10
100%	100%	98%	96%	92%	88%	83%	77%	70%	61%	52%	43%	36%	29%	22%	15%	7%	2%	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°
3301	3287	3230	3145	3035	2898	2732	2529	2289	2017	1723	1433	1170	928	653	372	152	40	13	9
100%	100%	98%	95%	92%	88%	83%	77%	69%	61%	52%	43%	35%	28%	20%	11%	5%	1%	0%	0%

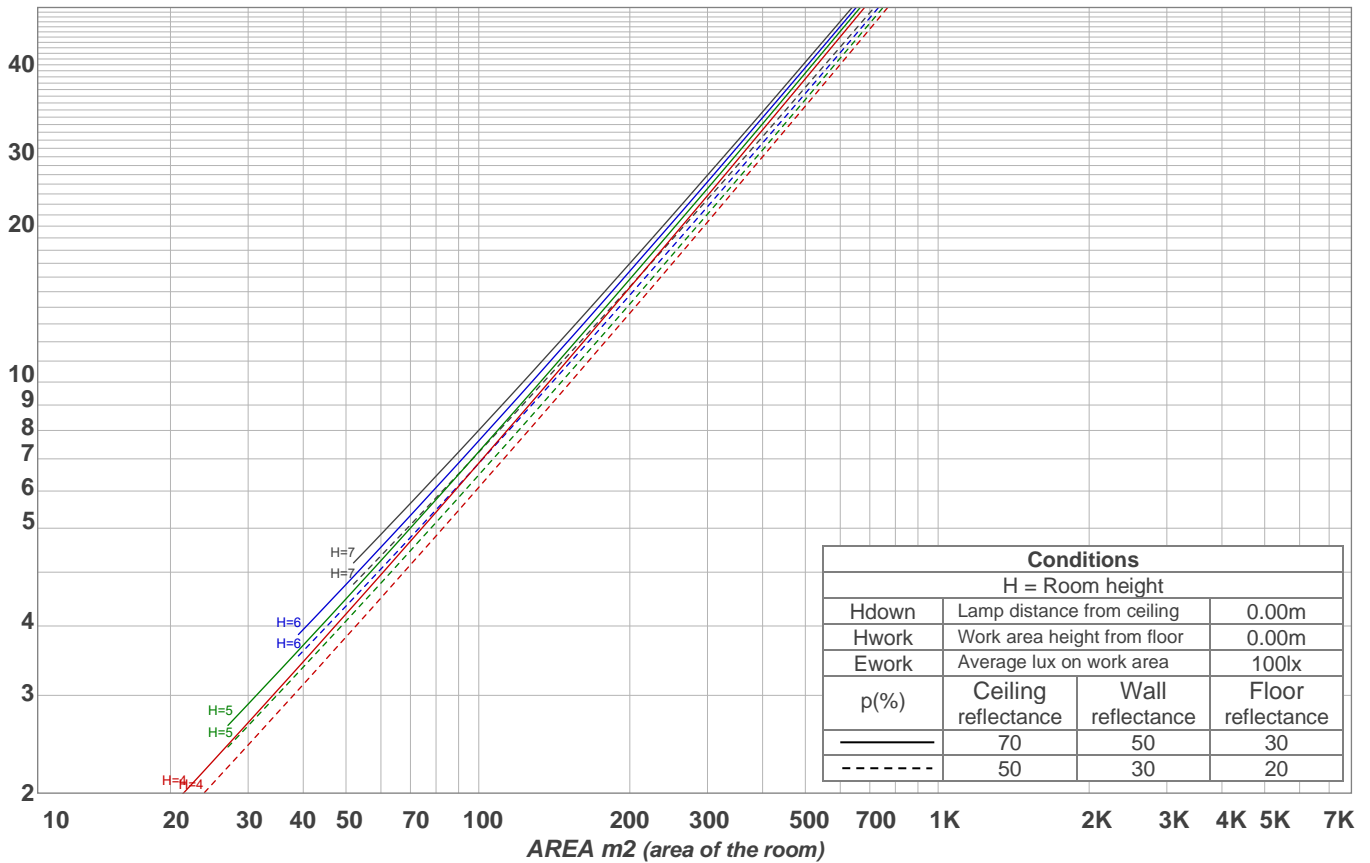
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3301	3267	3209	3122	3011	2876	2715	2526	2298	2023	1727	1430	1148	868	565	275	90	27	13	9
100%	99%	97%	95%	91%	87%	82%	77%	70%	61%	52%	43%	35%	26%	17%	8%	3%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41°	60.7°	65.6°	99.4%	99.1%

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	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	88	87	87	87	
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80	80	80	
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77	77	77	
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68	68	68	
10	82	75	70	67	82	74	70	67	74	69	67	73	69	67	72	69	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°
295 lm	658 lm	463 lm	43.3 lm	3.64 lm	2.49 lm	2.57 lm	3.27 lm	3.49 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