

Light efficiency:



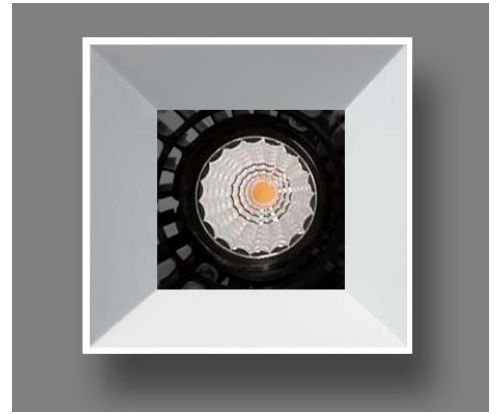
Output: 1400 lm

Light quality:

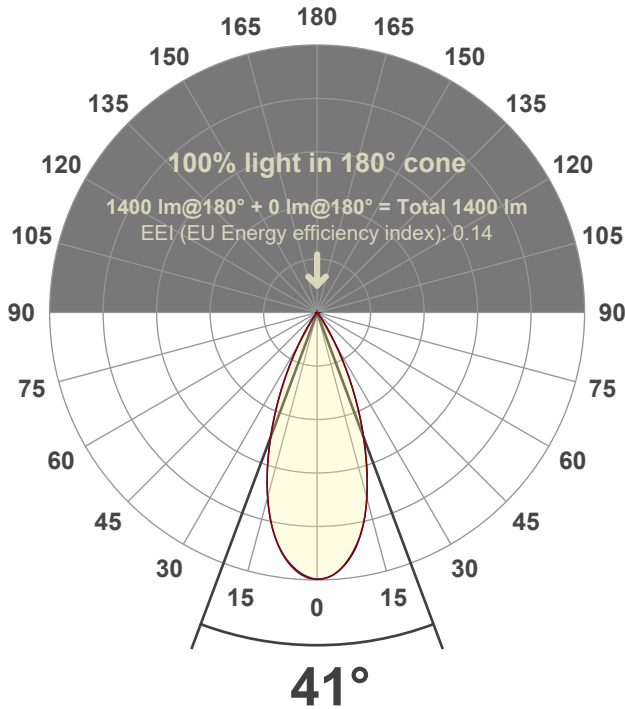


Peak: 2932 cd

Power: 14.2 W



Beam angle



Test number:

GR-O-F-CZ14-30k-FL-SQ-91A-Rev2

Luminaire Model:

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

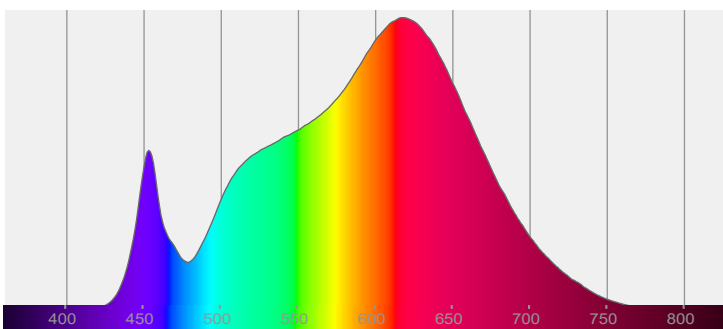
Date and time:

6/30/2022 8:22:29 PM

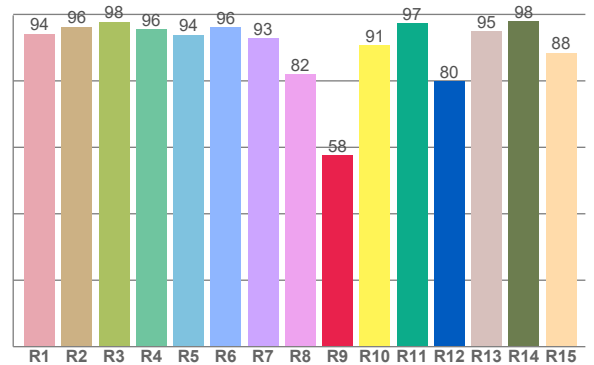
Delivered Lumens

1400

Spectra



CRI: 93.6 (R1-R8)



Color parameters

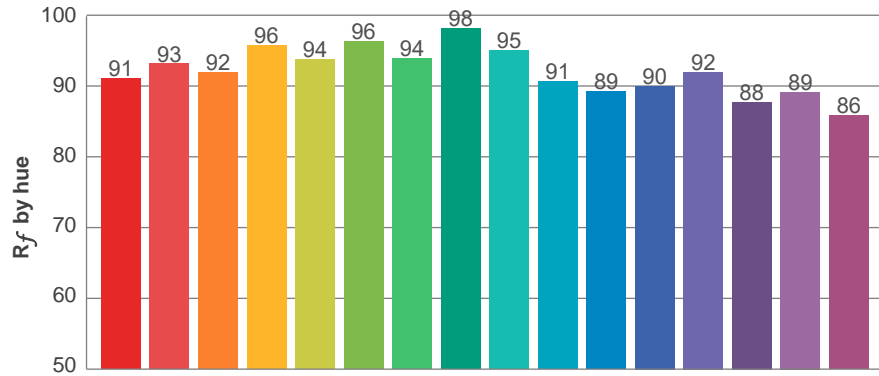
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.6	57.6	92.3	99.2	91.9	0.437	0.408	0.249	0.349	0.0014

R_f 92.3
Fidelity index R_f

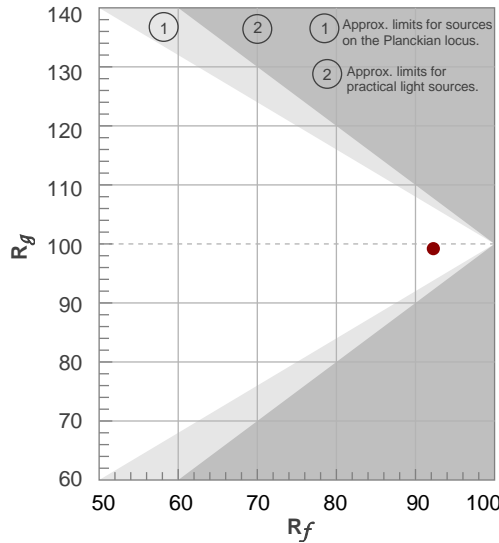
R_g 99.2
Gammut index R_g

TM30: 92.3

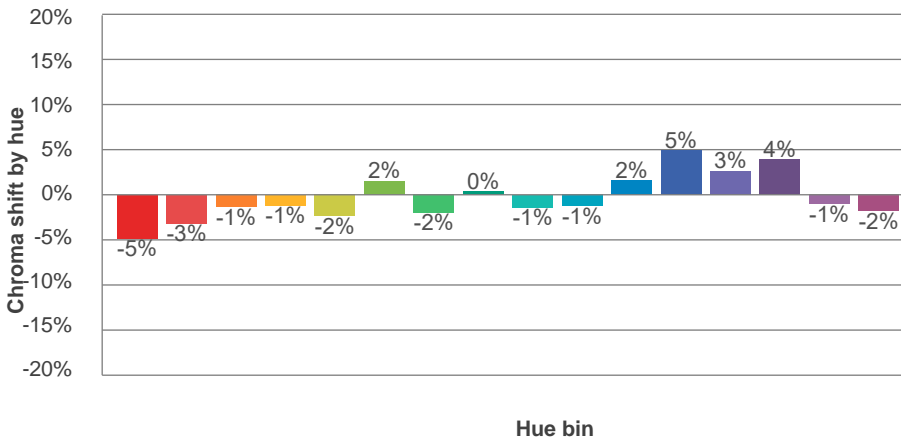
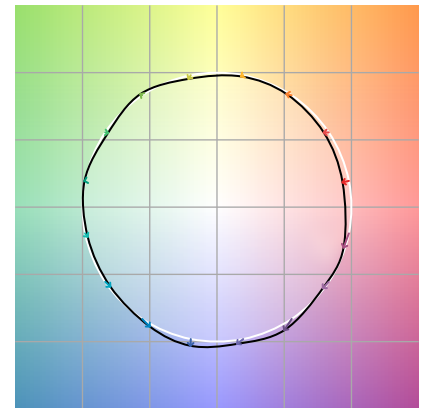
TM-30Color



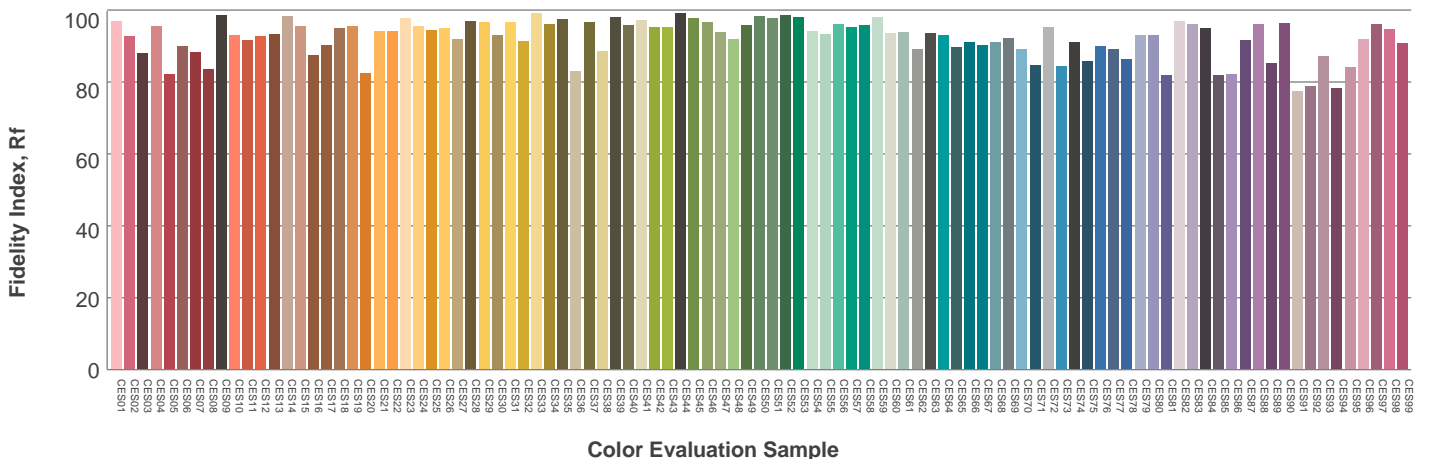
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



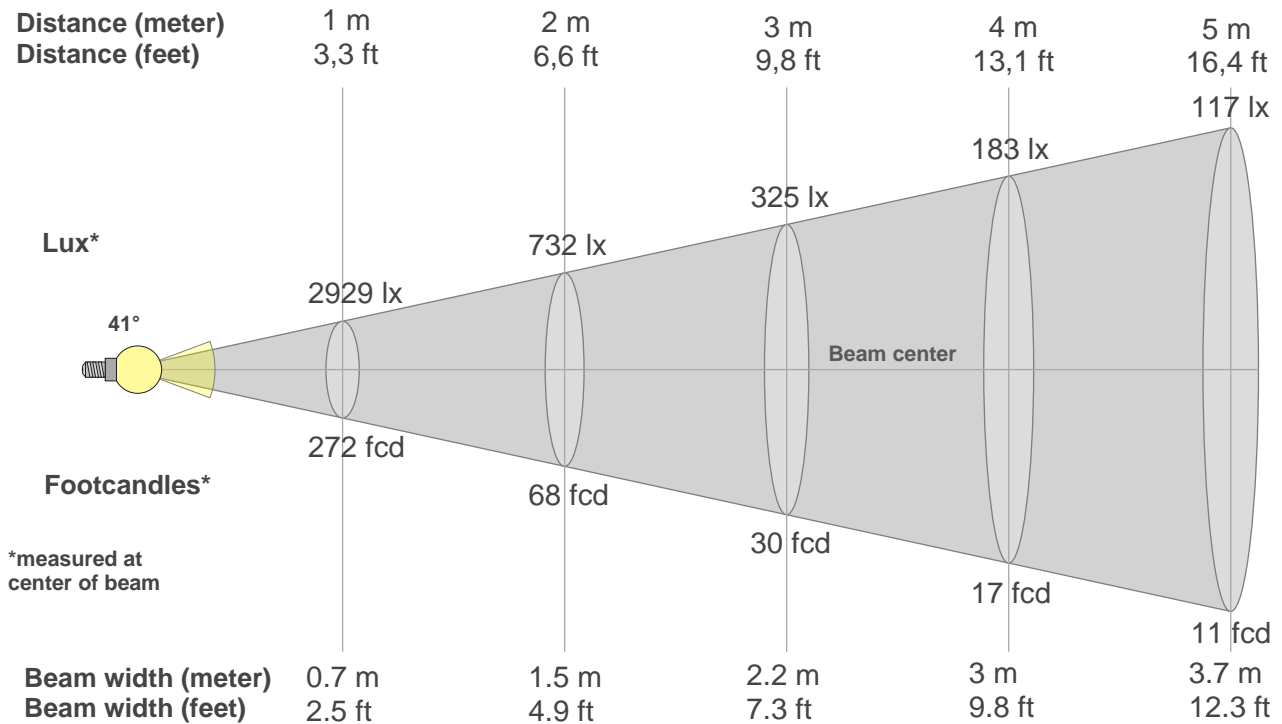
Color vector graphics



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
2929lx	732lx	325lx	183lx	117lx	81lx	60lx	46lx	36lx	29lx	24lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx
272.1fcd	68fcd	30.2fcd	17fcd	10.9fcd	7.6fcd	5.6fcd	4.3fcd	3.4fcd	2.7fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.8fcd	0.7fcd

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°
2929	2916	2872	2796	2694	2564	2408	2220	2005	1772	1531	1289	1052	828	621	439	289	188	122	78
100%	100%	98%	95%	92%	88%	82%	76%	68%	61%	52%	44%	36%	28%	21%	15%	10%	6%	4%	3%

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°
2929	2919	2875	2801	2700	2571	2411	2221	1997	1759	1520	1284	1053	831	622	435	287	179	105	60
100%	100%	98%	96%	92%	88%	82%	76%	68%	60%	52%	44%	36%	28%	21%	15%	10%	6%	4%	2%

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°
2929	2917	2874	2795	2690	2556	2394	2207	1998	1768	1530	1293	1058	833	626	446	303	198	127	80
100%	100%	98%	95%	92%	87%	82%	75%	68%	60%	52%	44%	36%	28%	21%	15%	10%	7%	4%	3%

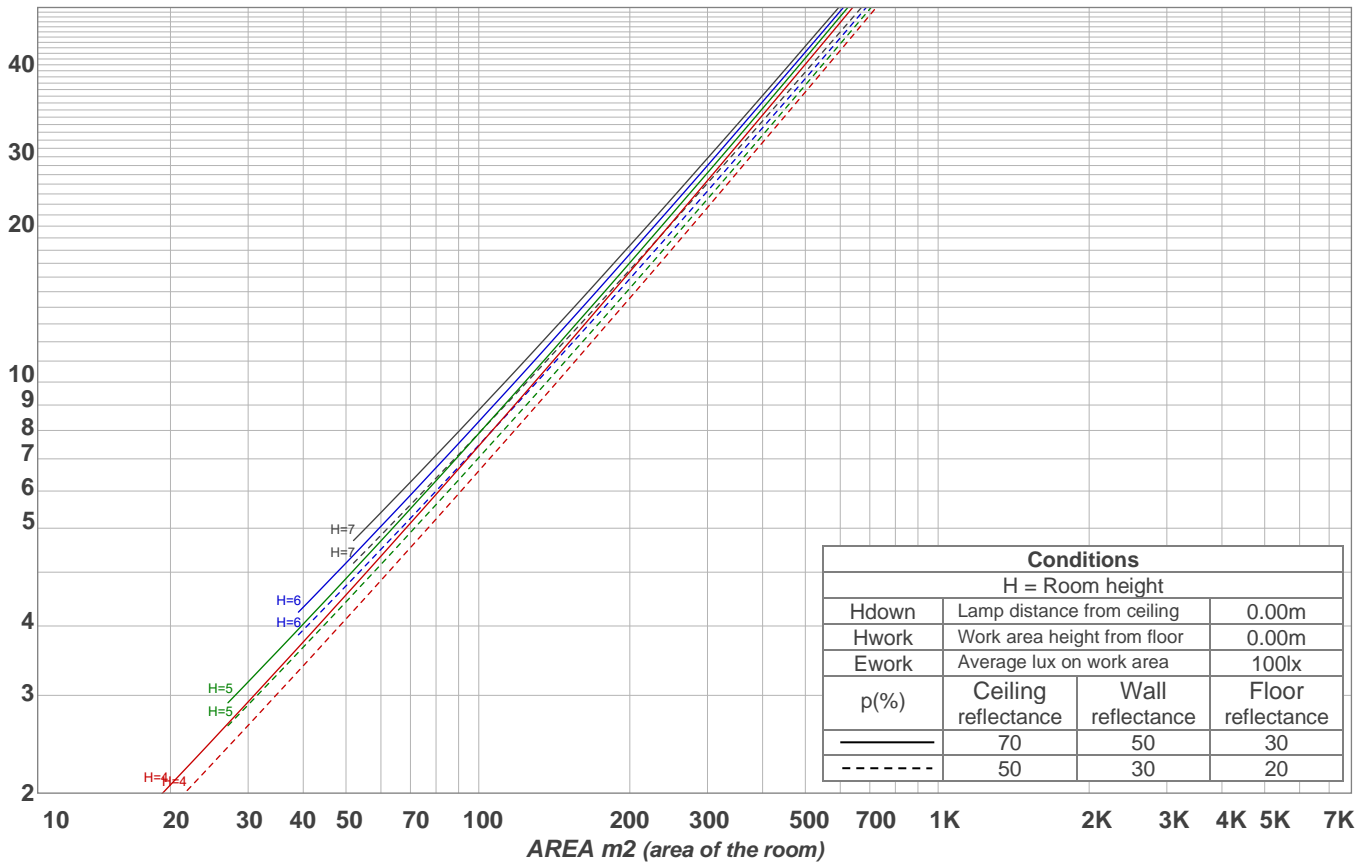
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2929	2904	2854	2780	2682	2556	2396	2206	1993	1763	1521	1277	1040	813	604	422	275	163	98	61
100%	99%	97%	95%	92%	87%	82%	75%	68%	60%	52%	44%	36%	28%	21%	14%	9%	6%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41°	63.8°	75.6°	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	98	98	97	95	95	95	
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	90	
3	105	100	95	92	103	98	94	91	96	93	90	93	91	88	91	89	87	86	86	86	
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82	82	82	
5	97	90	85	81	96	89	85	81	87	83	80	86	82	80	84	81	79	78	78	78	
6	93	86	81	77	92	85	80	77	84	80	76	82	79	76	81	78	76	74	74	74	
7	90	82	77	73	89	81	77	73	80	76	73	79	75	73	78	75	72	71	71	71	
8	86	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68	68	68	
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65	65	65	
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	64	62	62	62	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
262 lm	575 lm	424 lm	105 lm	15.1 lm	6.06 lm	4.55 lm	4.39 lm	3.62 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