

Light efficiency:



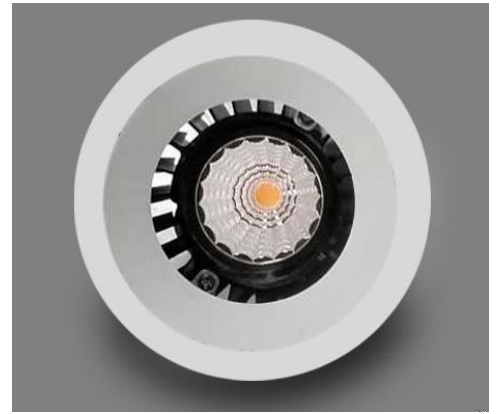
Output: 1372 lm

Light quality:

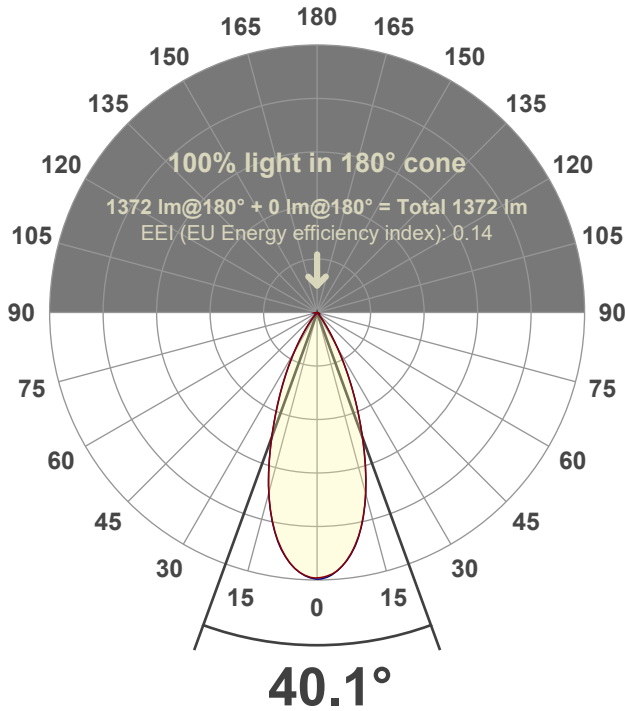


Peak: 2831 cd

Power: 14.1 W



Beam angle



Test number:

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

Luminaire Model:

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

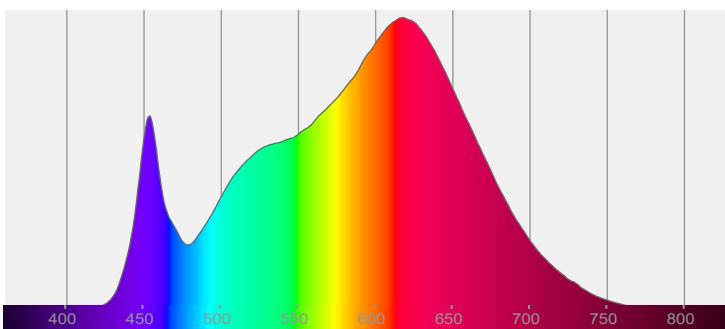
Date and time:

3/2/2022 10:56:15 PM

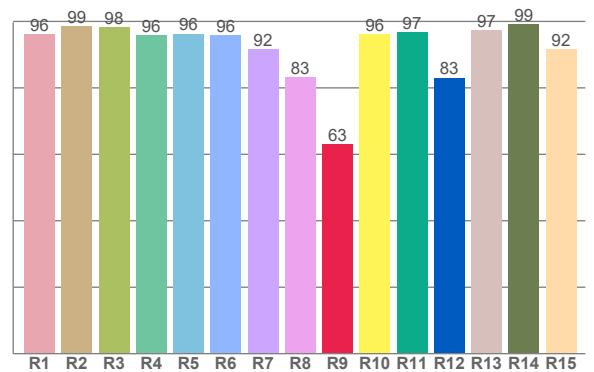
Delivered Lumens

1372

Spectra



CRI: 94.5 (R1-R8)



Color parameters

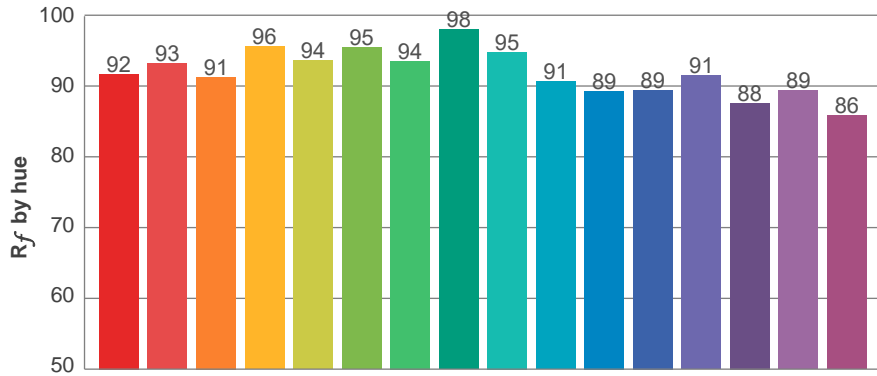
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.0	92.1	100.4	91.7	0.425	0.393	0.248	0.344	-0.0027

R_f 92.1
Fidelity index R_f

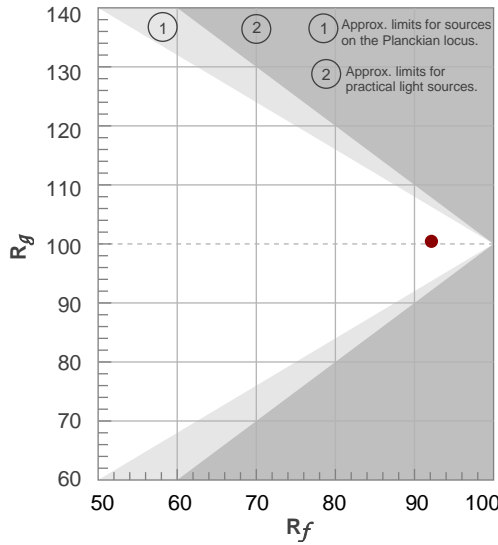
R_g 100.4
Gammut index R_g

TM30: 92.1

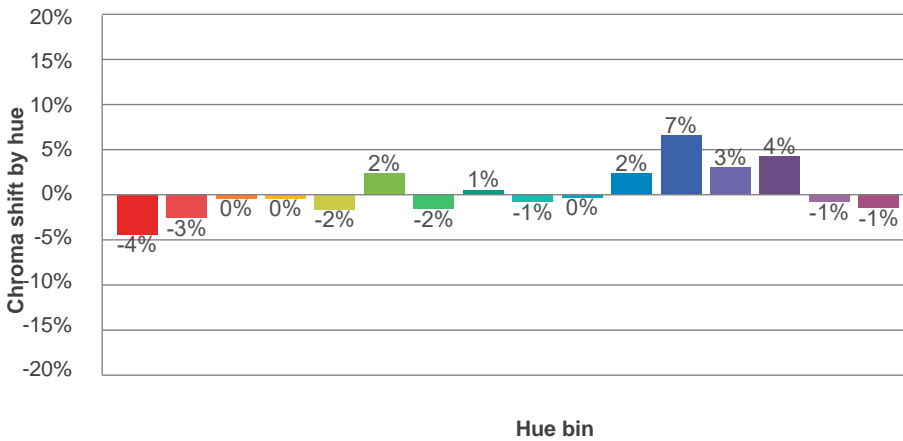
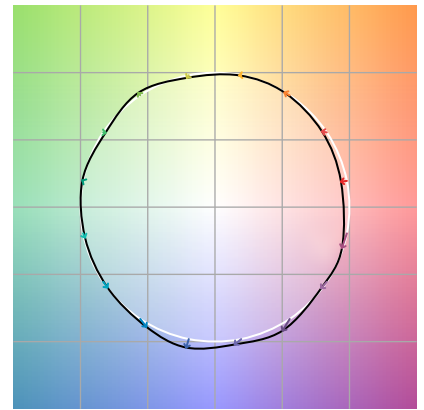
TM-30Color



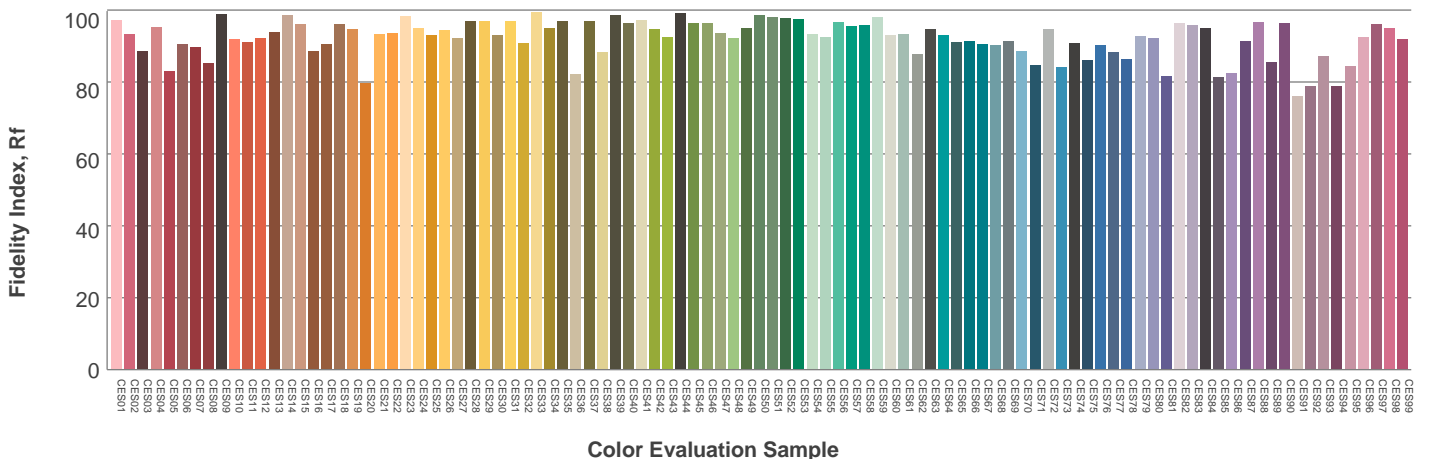
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	3%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



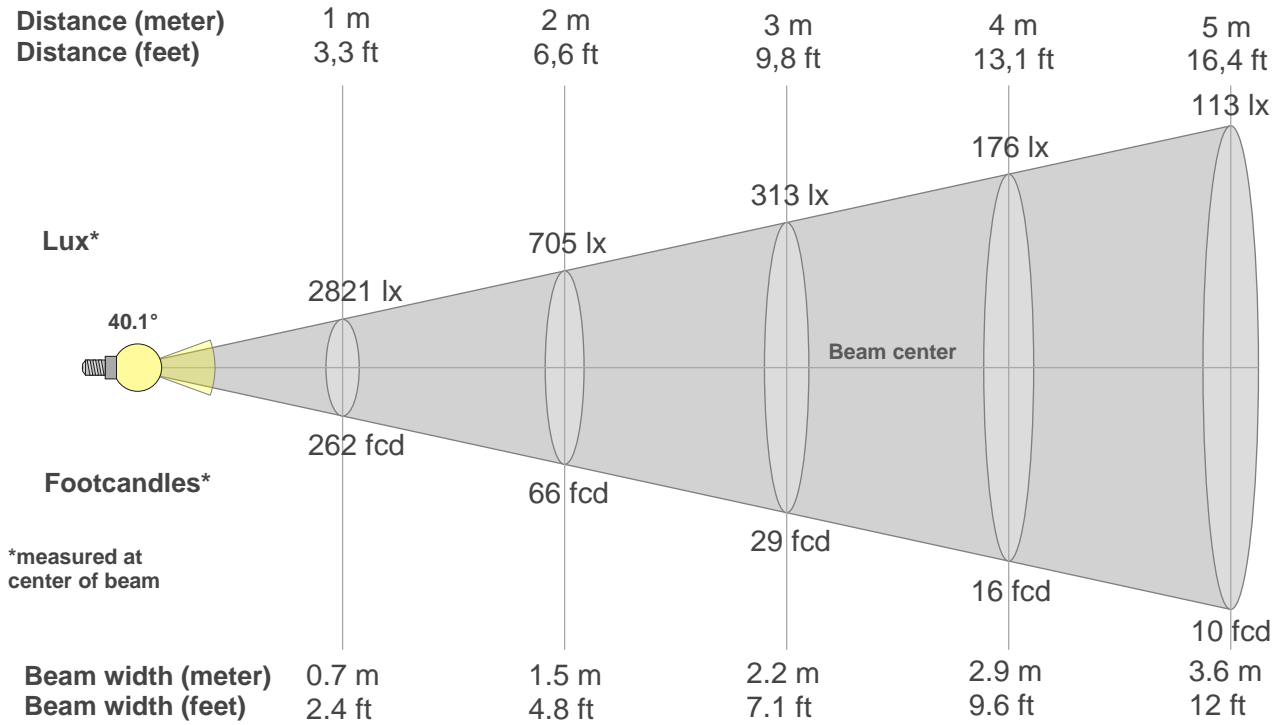
Color vector graphics



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
2821lx	705lx	313lx	176lx	113lx	78lx	58lx	44lx	35lx	28lx	23lx	20lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx	7lx
262.1fcd	65.5fcd	29.1fcd	16.4fcd	10.5fcd	7.3fcd	5.3fcd	4.1fcd	3.2fcd	2.6fcd	2.2fcd	1.8fcd	1.6fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	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°
2821	2800	2763	2687	2582	2448	2286	2096	1884	1655	1419	1192	978	778	598	443	317	219	147	97
100%	99%	98%	95%	92%	87%	81%	74%	67%	59%	50%	42%	35%	28%	21%	16%	11%	8%	5%	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°
2821	2811	2763	2688	2588	2460	2295	2100	1881	1647	1413	1187	976	780	601	442	307	200	122	78
100%	100%	98%	95%	92%	87%	81%	74%	67%	58%	50%	42%	35%	28%	21%	16%	11%	7%	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°
2821	2800	2756	2682	2575	2438	2273	2084	1872	1646	1418	1203	1007	828	665	518	389	280	195	131
100%	99%	98%	95%	91%	86%	81%	74%	66%	58%	50%	43%	36%	29%	24%	18%	14%	10%	7%	5%

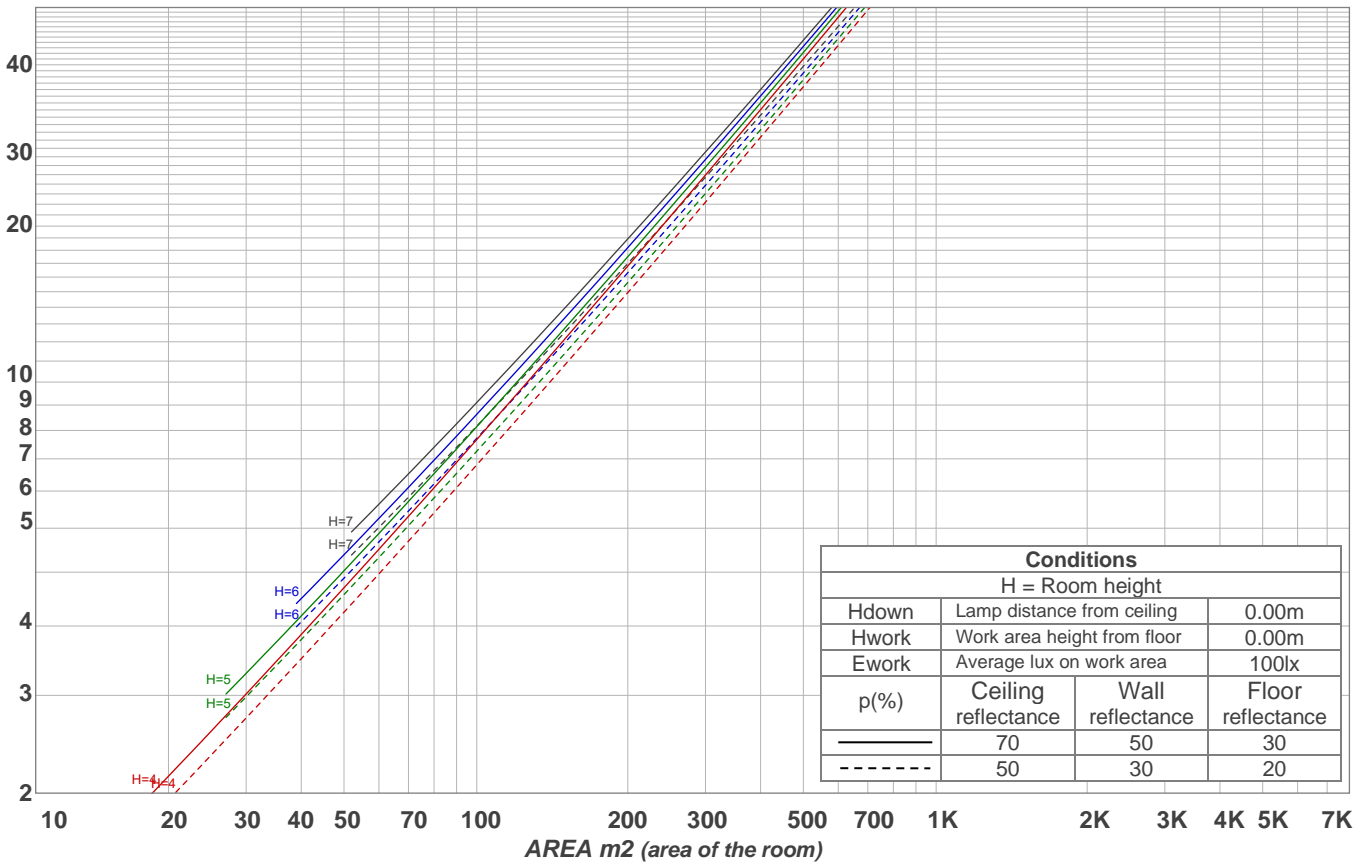
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2821	2810	2759	2681	2577	2444	2280	2091	1878	1646	1413	1192	991	808	644	497	368	259	173	110
100%	100%	98%	95%	91%	87%	81%	74%	67%	58%	50%	42%	35%	29%	23%	18%	13%	9%	6%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.1°	66.3°	79.3°	99.2%	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	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73	73	73	
7	89	81	76	73	88	81	76	72	79	75	72	78	75	72	77	74	71	70	70	70	
8	86	78	73	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67	67	67	
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64	64	64	
10	80	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	61	61	61	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
252 lm	542 lm	407 lm	133 lm	21.3 lm	6.10 lm	4.49 lm	3.47 lm	3.20 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