

Light efficiency:



Output: 654 lm

Light quality:

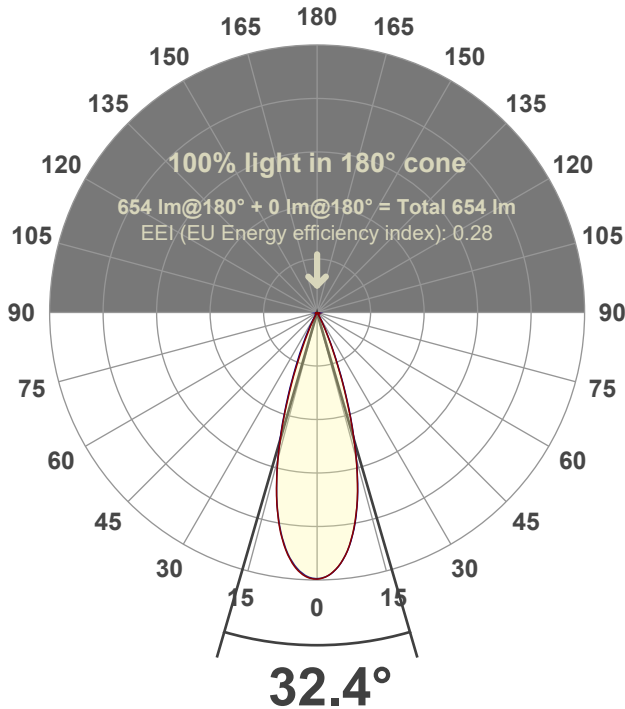


Peak: 2184 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-3022-FL-SQ-91A-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3022 38° Optic-Solite

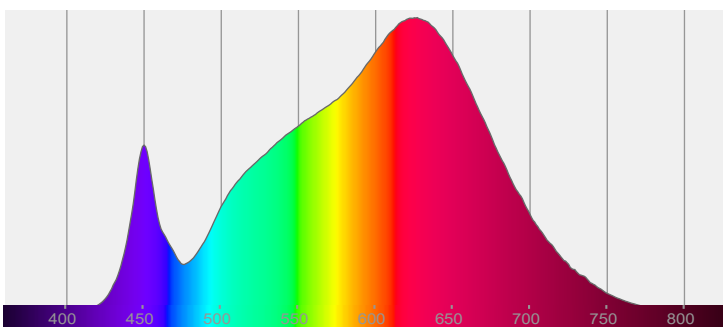
Date and time:

6/30/2022 4:48:46 PM

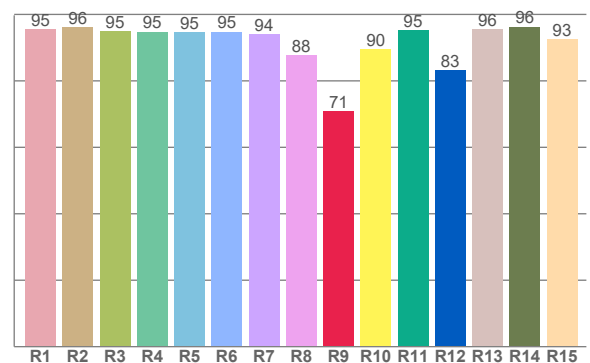
Delivered Lumens

654

Spectra



CRI: 94.0 (R1-R8)



Color parameters

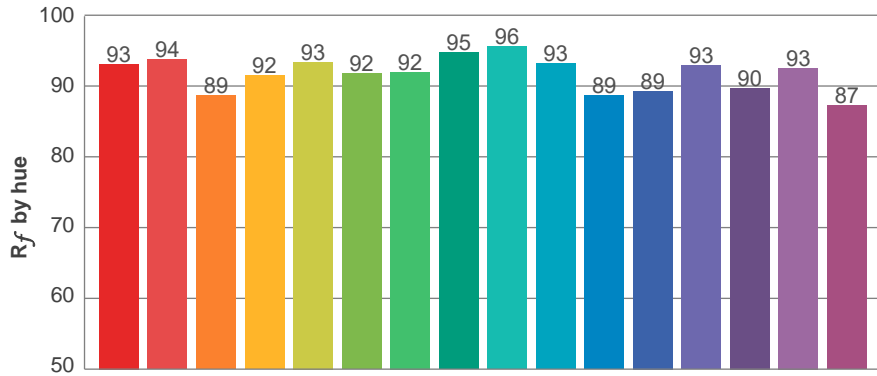
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.0	70.9	91.8	102.4	91.0	0.436	0.399	0.252	0.346	-0.0017

R_f 91.8
Fidelity index R_f

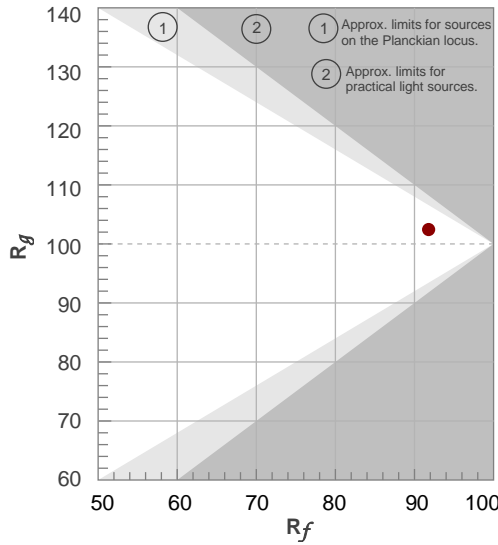
R_g 102.4
Gammut index R_g

TM30: 91.8

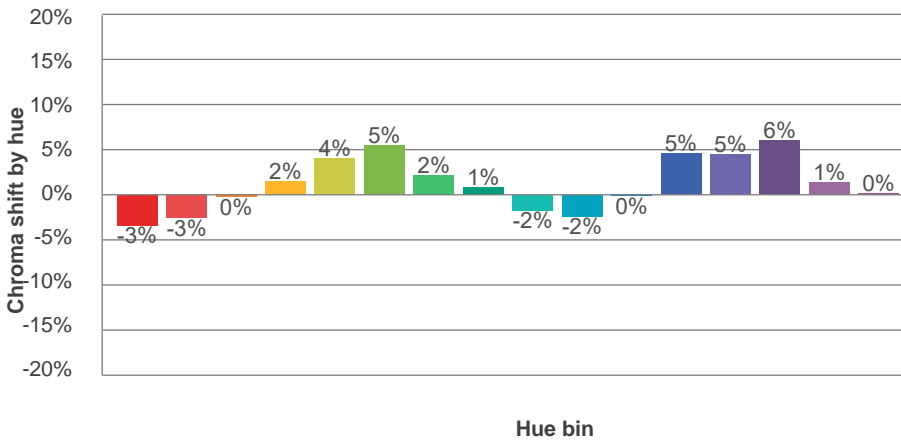
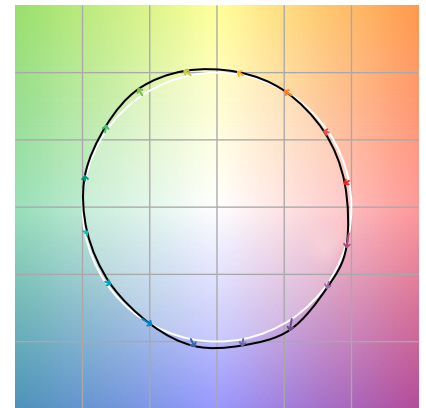
TM-30Color



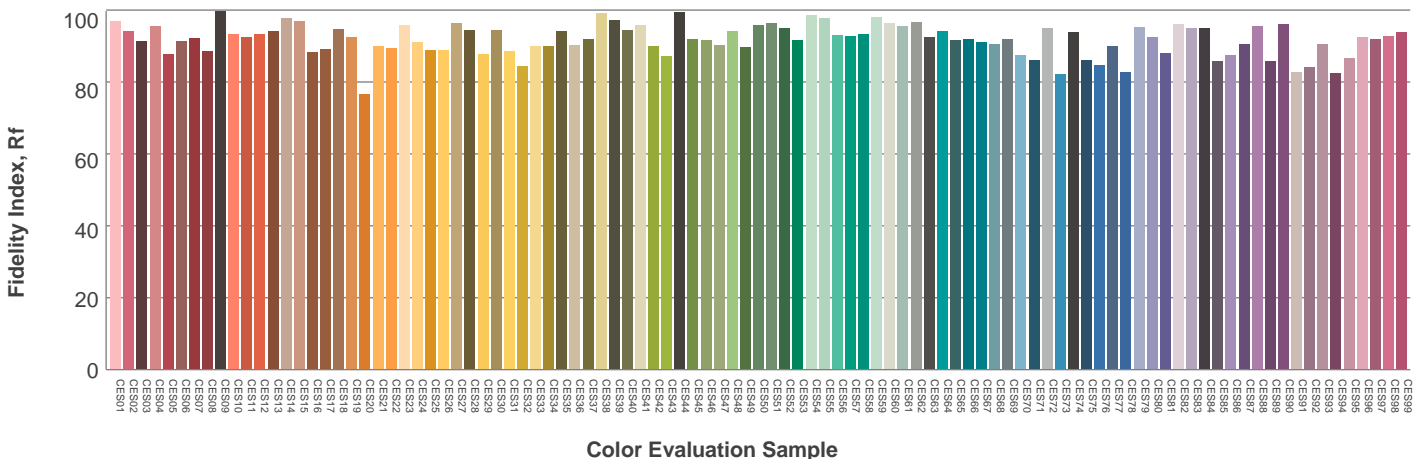
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	92	2%	4%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



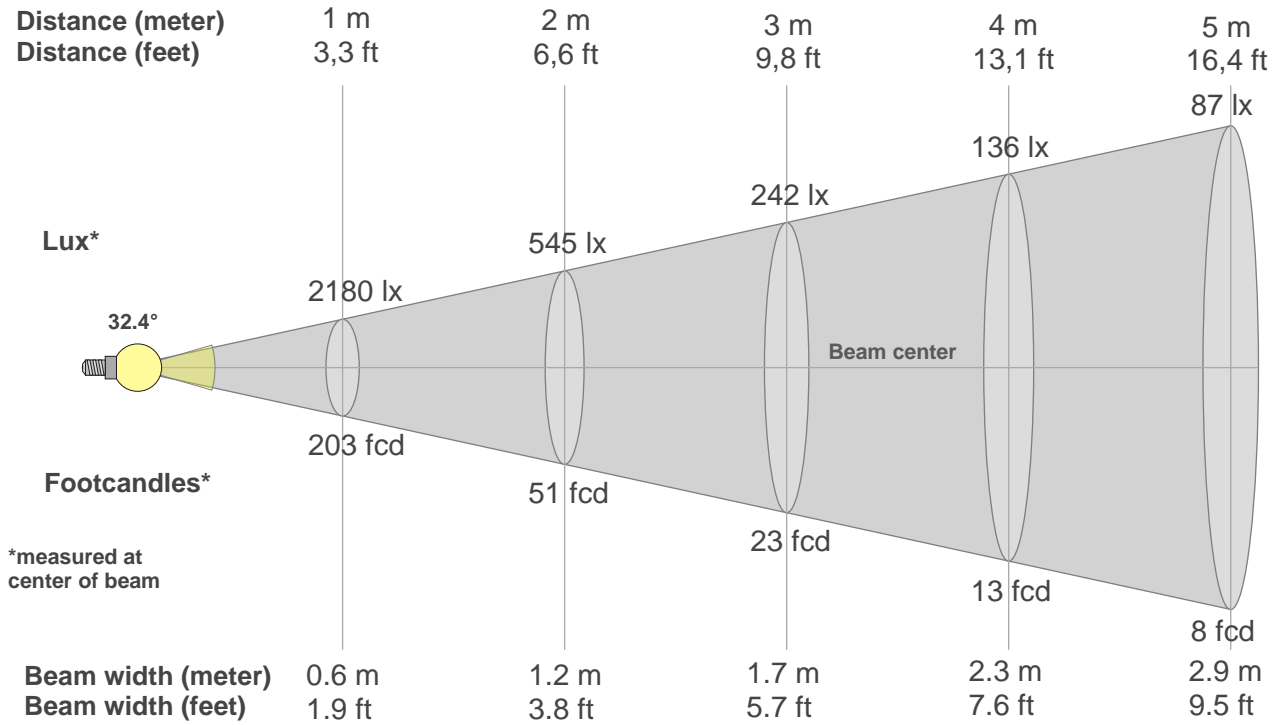
Color vector graphics



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
2180lx	545lx	242lx	136lx	87lx	61lx	44lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	5lx
202.5fcd	50.6fcd	22.5fcd	12.7fcd	8.1fcd	5.6fcd	4.1fcd	3.2fcd	2.5fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd

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°
2180	2162	2110	2029	1915	1765	1581	1358	1114	862	619	407	259	156	89	50	29	19	13	9
100%	99%	97%	93%	88%	81%	73%	62%	51%	40%	28%	19%	12%	7%	4%	2%	1%	1%	1%	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°
2180	2159	2110	2031	1921	1771	1583	1364	1124	876	637	432	277	167	95	53	32	19	12	9
100%	99%	97%	93%	88%	81%	73%	63%	52%	40%	29%	20%	13%	8%	4%	2%	1%	1%	1%	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°
2180	2168	2121	2041	1928	1781	1588	1363	1115	855	604	392	238	136	74	39	23	16	11	8
100%	99%	97%	94%	88%	82%	73%	63%	51%	39%	28%	18%	11%	6%	3%	2%	1%	1%	1%	0%

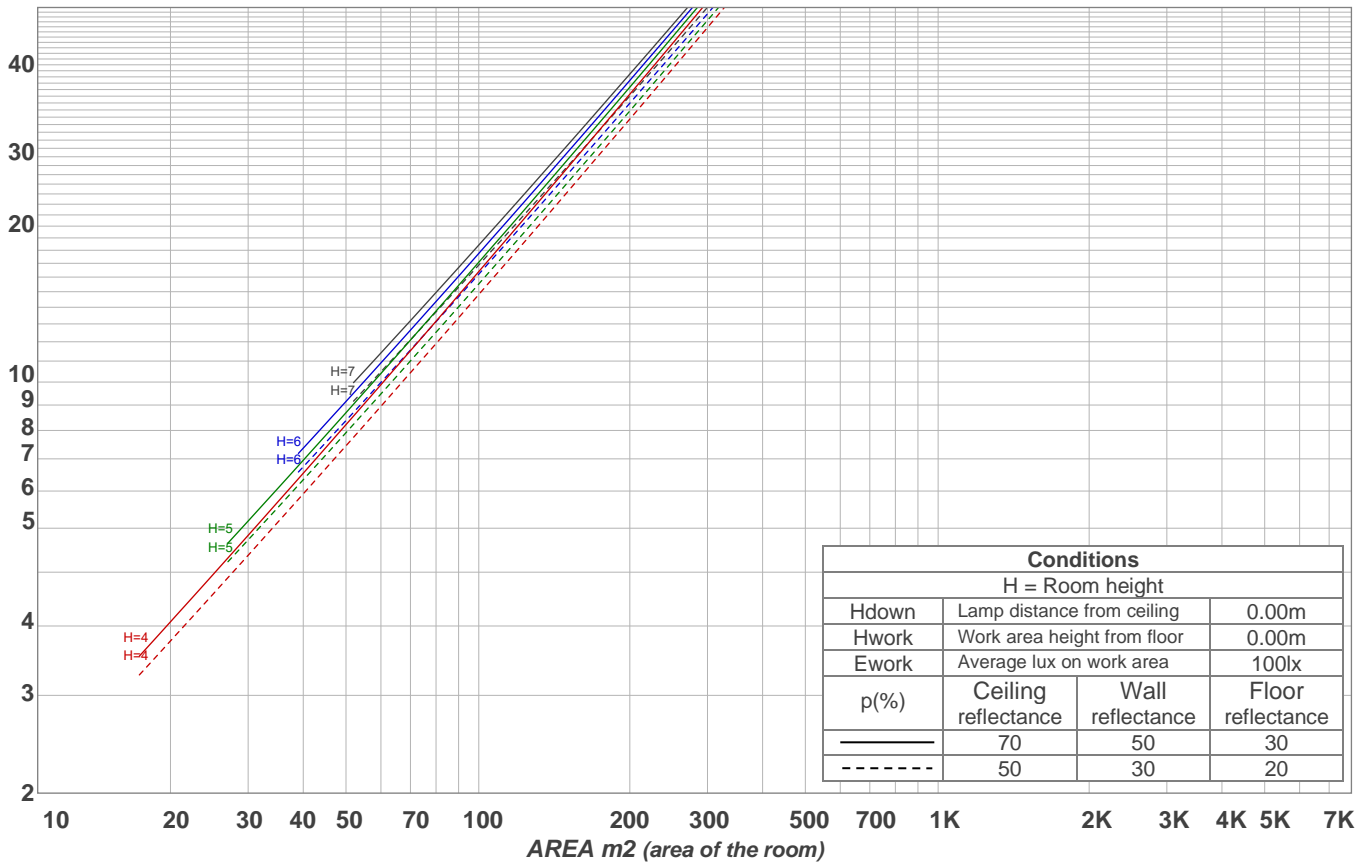
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2180	2166	2115	2033	1918	1768	1586	1363	1123	878	646	446	297	192	119	71	43	27	18	13
100%	99%	97%	93%	88%	81%	73%	63%	52%	40%	30%	20%	14%	9%	5%	3%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.4°	49.6°	59.8°	98.7%	98.1%

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96	96	96	
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92	92	92	
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89	89	89	
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86	86	86	
5	100	94	90	87	99	93	89	86	92	88	85	90	87	85	89	86	84	83	83	83	
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80	80	80	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78	
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75	75	75	
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73	
10	87	80	75	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71	71	71	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
189 lm	329 lm	109 lm	12.4 lm	3.42 lm	2.57 lm	2.94 lm	2.99 lm	2.67 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