

Light efficiency:



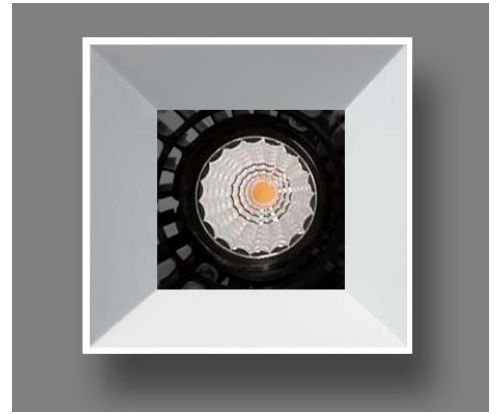
Output: 1060 lm

Light quality:

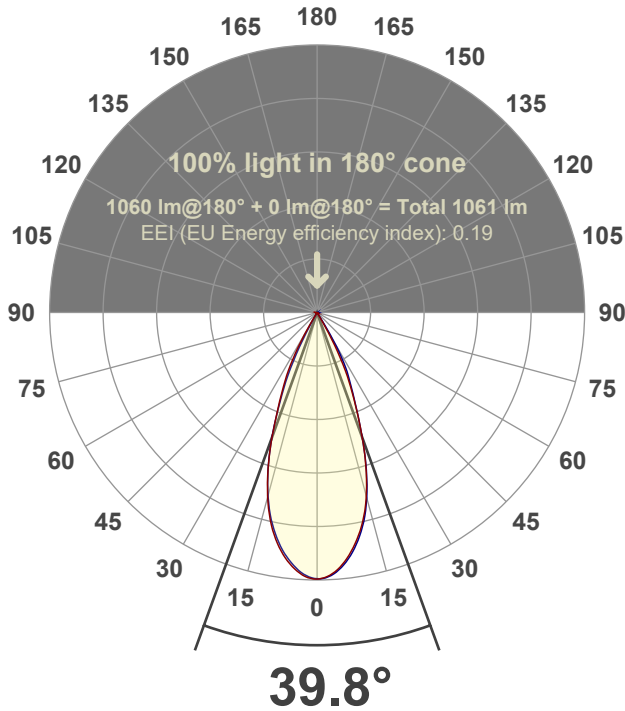


Peak: 2501 cd

Power: 15.0 W



Beam angle



Test number:

GR-O-F-A14-3022-FL-SQ-Rev2

Luminaire Model:

Graffiti OpenSquare Fixed Downlight-A14-3022 38° Optic

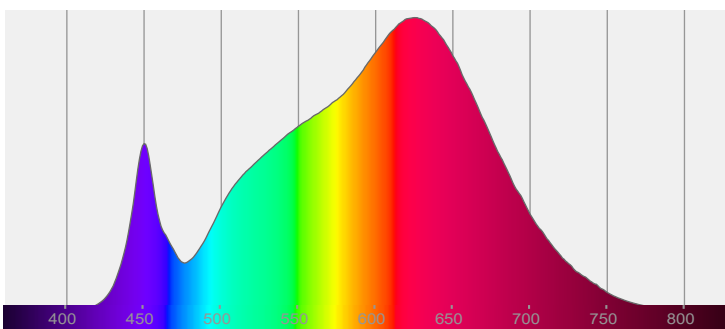
Date and time:

6/30/2022 4:44:07 PM

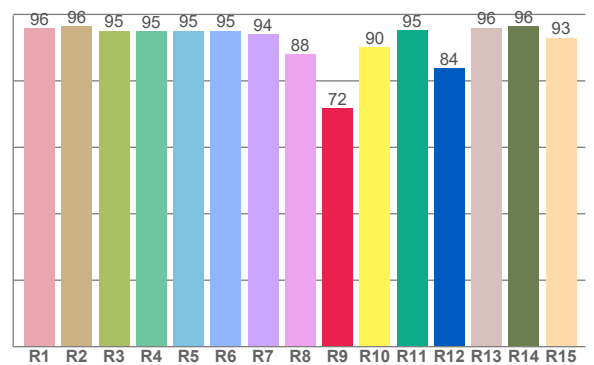
Delivered Lumens

1060

Spectra



CRI: 94.2 (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
	94.2	71.7	91.8	102.6	91.0	0.435	0.398	0.252	0.346	-0.0021

R_f 91.8

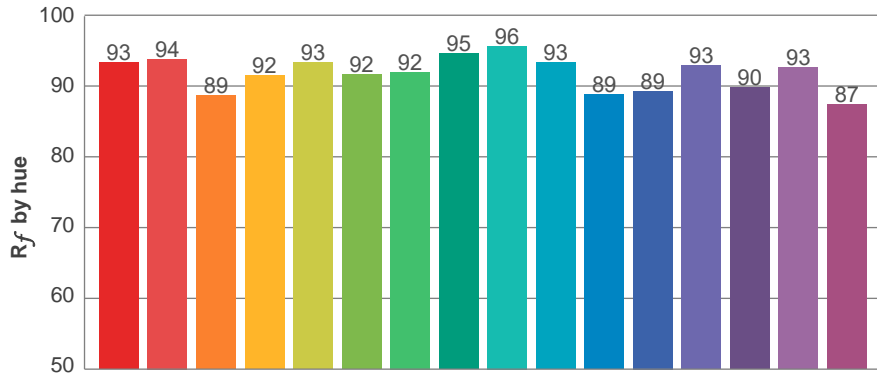
Fidelity index R_f

R_g 102.6

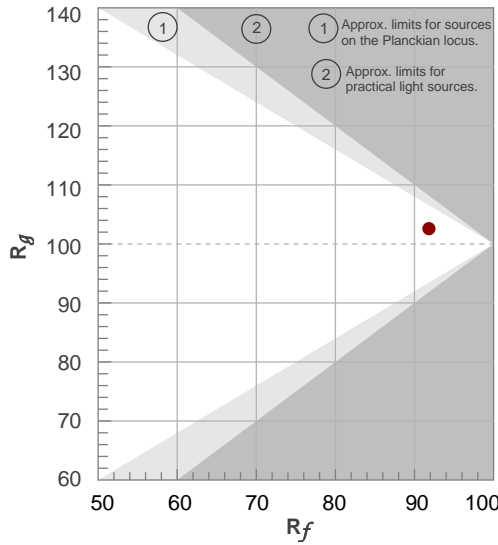
Gammut index R_g

TM30: 91.8

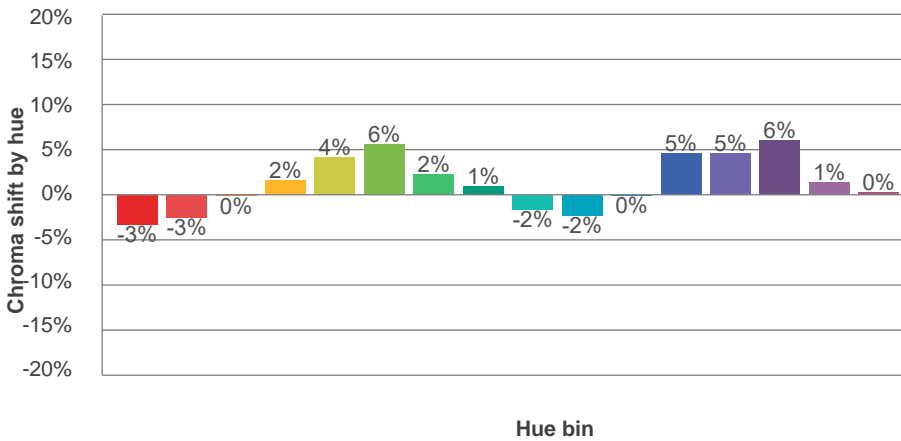
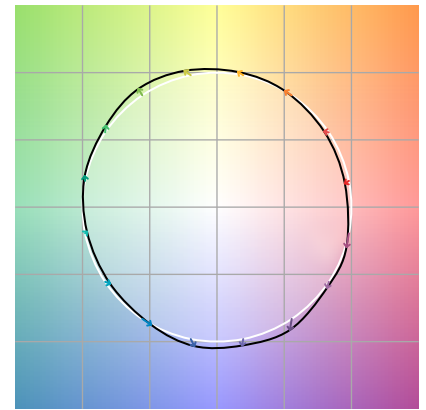
TM-30Color



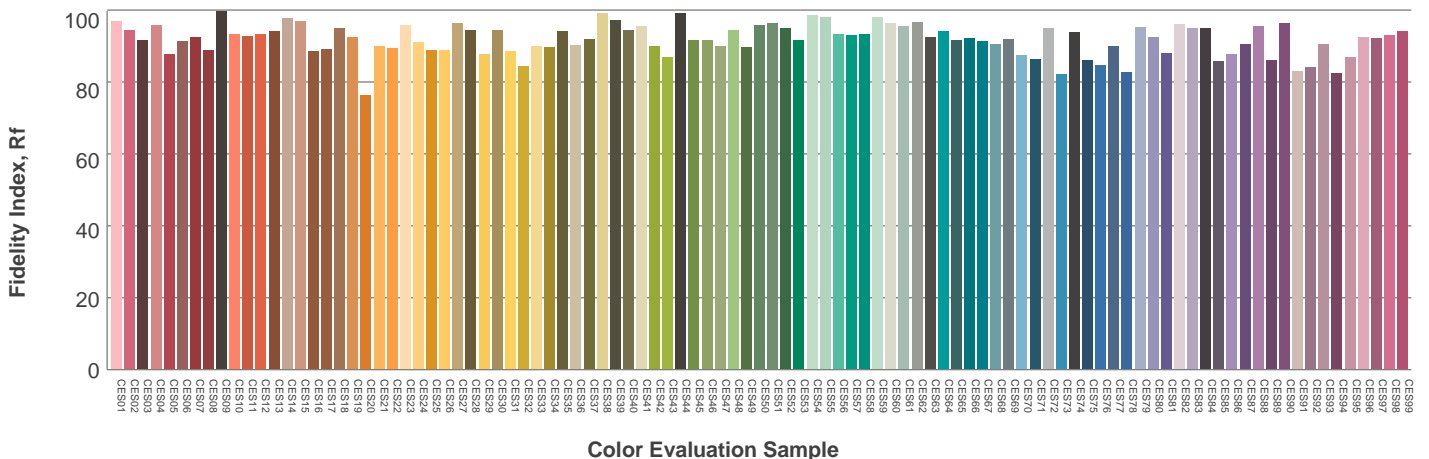
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	92	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



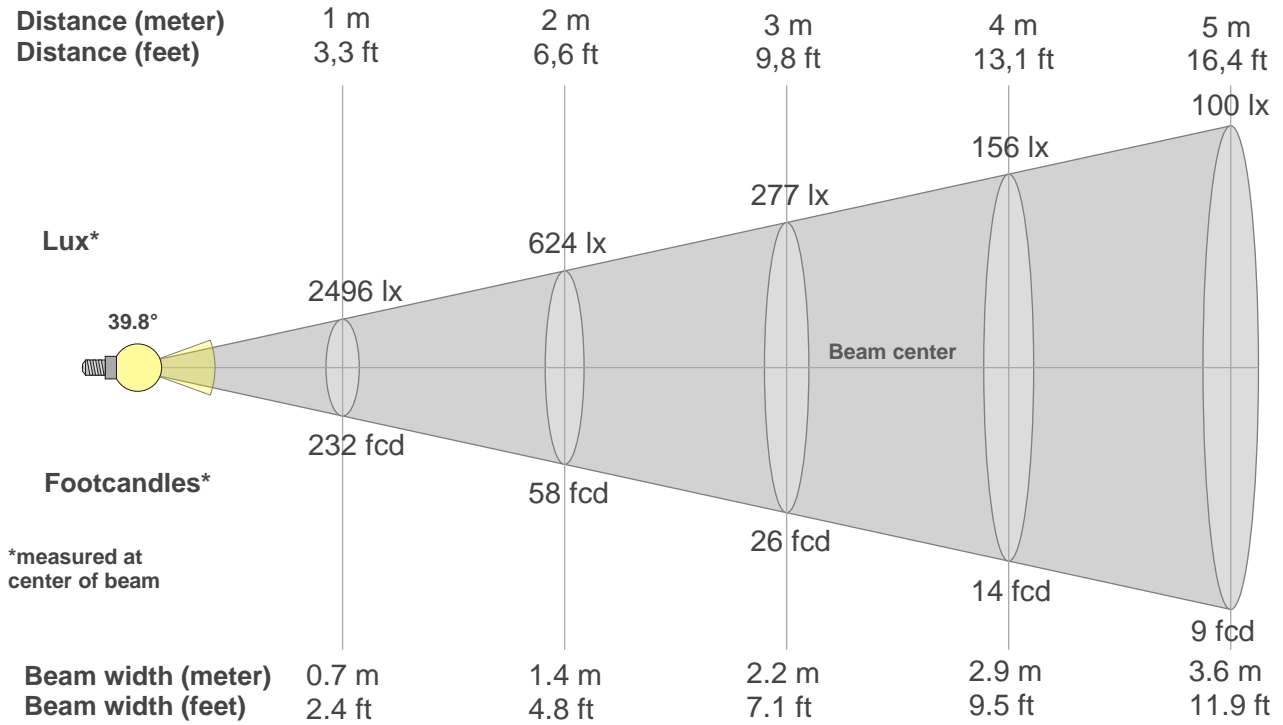
Color vector graphics



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
2496lx	624lx	277lx	156lx	100lx	69lx	51lx	39lx	31lx	25lx	21lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
231.9fcd	58fcd	25.8fcd	14.5fcd	9.3fcd	6.4fcd	4.7fcd	3.6fcd	2.9fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2496	2481	2434	2361	2268	2157	2030	1876	1685	1472	1240	1009	799	614	399	200	70	16	9	6
100%	99%	97%	95%	91%	86%	81%	75%	68%	59%	50%	40%	32%	25%	16%	8%	3%	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°
2496	2484	2447	2382	2292	2181	2049	1891	1701	1481	1237	1016	833	683	542	364	160	49	11	7
100%	100%	98%	95%	92%	87%	82%	76%	68%	59%	50%	41%	33%	27%	22%	15%	6%	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°
2496	2485	2442	2376	2291	2183	2051	1886	1691	1474	1240	1002	810	646	458	262	101	17	9	6
100%	100%	98%	95%	92%	87%	82%	76%	68%	59%	50%	40%	32%	26%	18%	11%	4%	1%	0%	0%

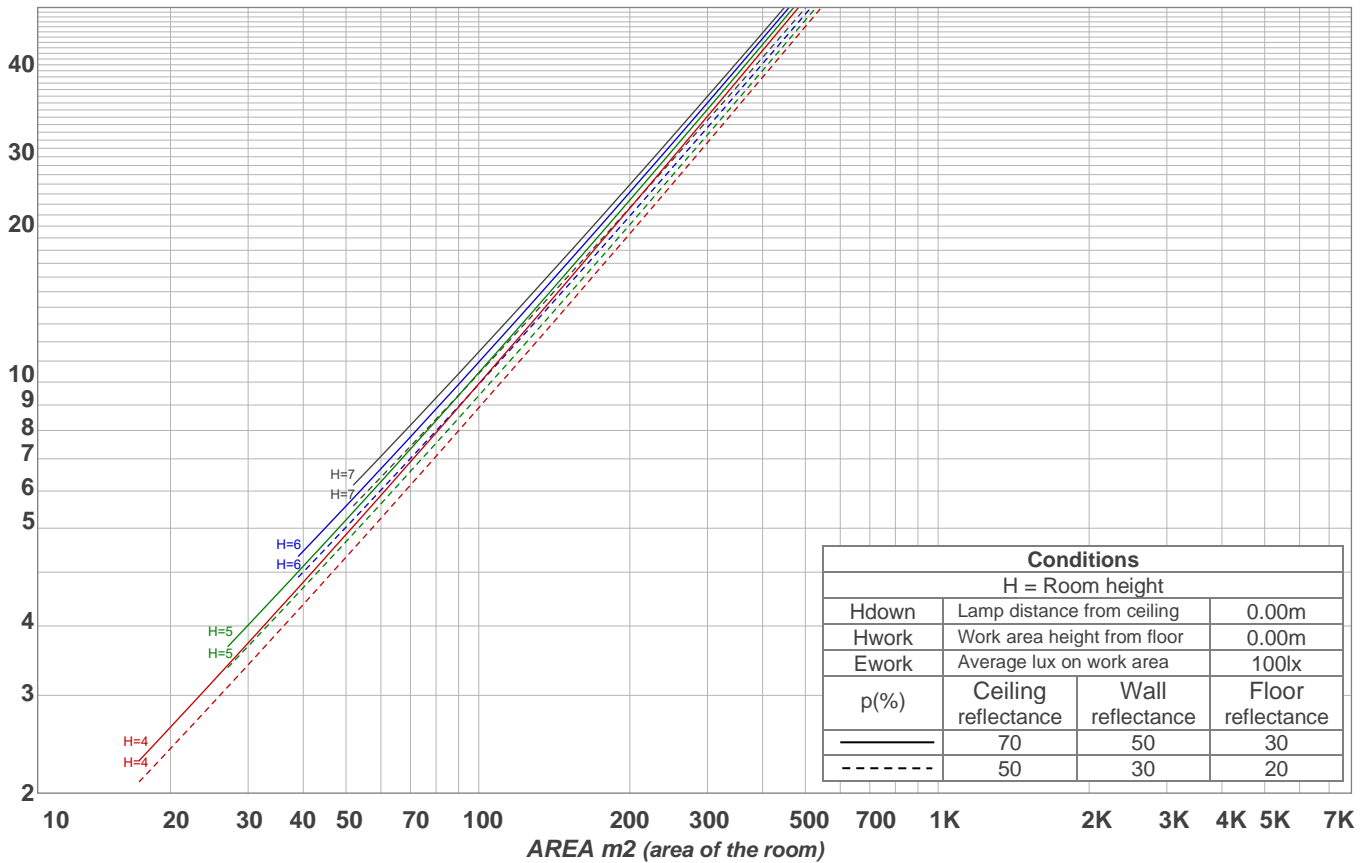
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2496	2473	2427	2355	2266	2153	2022	1867	1683	1475	1237	987	761	535	303	100	29	11	7	5
100%	99%	97%	94%	91%	86%	81%	75%	67%	59%	50%	40%	30%	21%	12%	4%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.8°	59.6°	64.9°	99.3%	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	105	103	102	101	100	99	98	97	96	96	96	
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84	84	
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80	80	80	
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	84	81	78	77	77	77	
7	92	85	80	77	91	84	80	76	83	79	76	82	78	76	81	78	75	74	74	74	
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71	71	71	
9	86	78	74	70	85	78	73	70	77	73	70	76	73	70	75	72	70	69	69	69	
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66	66	66	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
222 lm	485 lm	317 lm	25.3 lm	2.48 lm	1.90 lm	2.14 lm	2.28 lm	2.22 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