

Light efficiency:



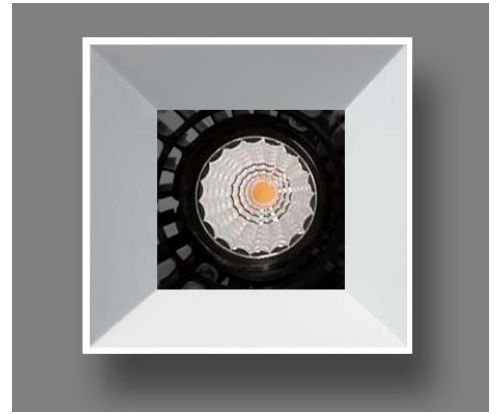
Output: 1012 lm

Light quality:

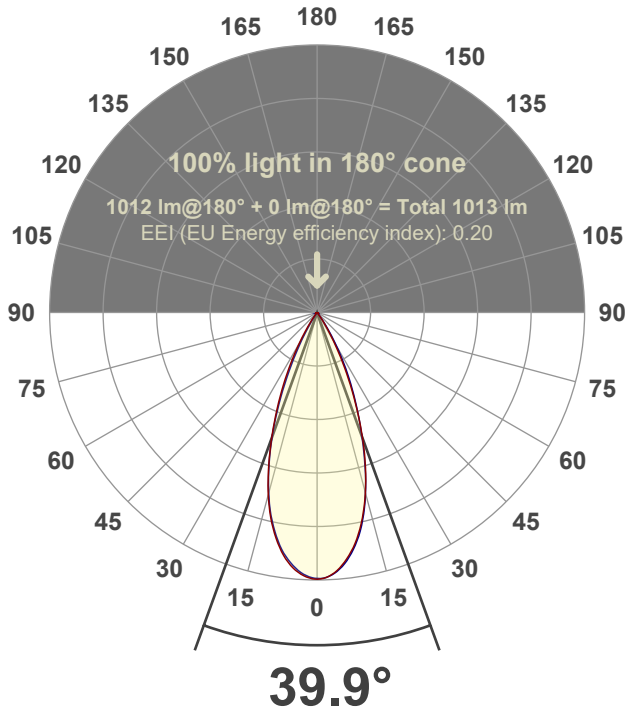


Peak: 2221 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

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

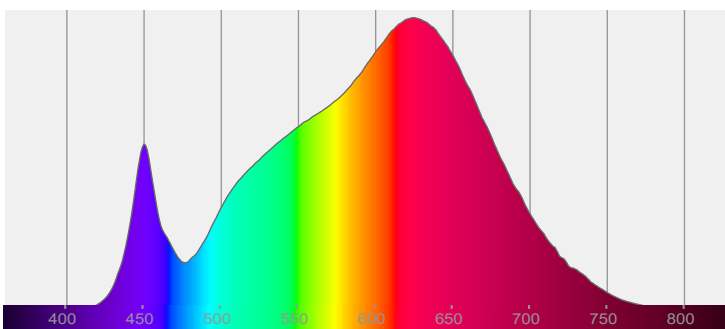
Date and time:

6/30/2022 4:42:08 PM

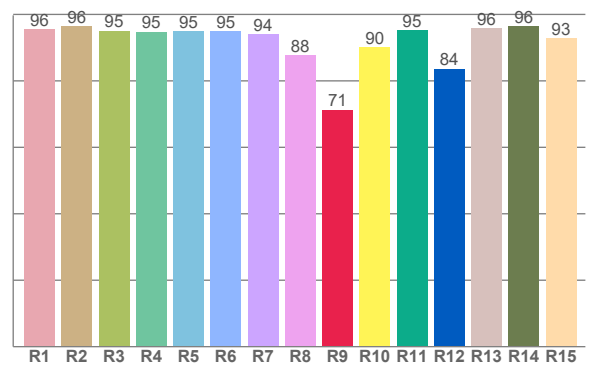
Delivered Lumens

1012

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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	94.2	71.3	91.8	102.5	91.0	0.435	0.398	0.252	0.346	-0.0021

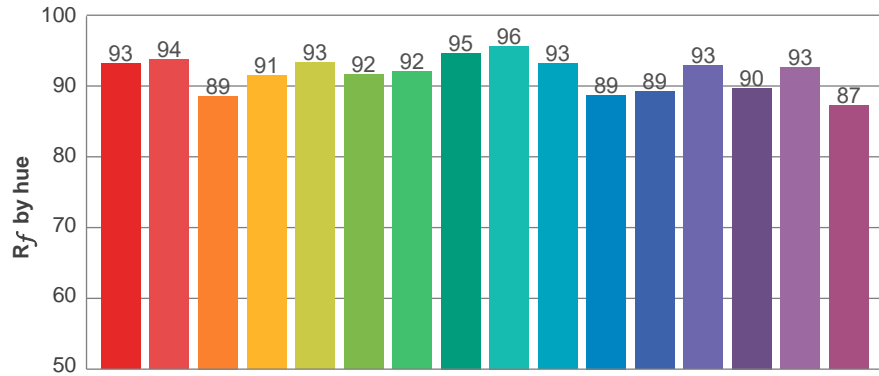
**$R_f$  91.8**  
Fidelity index  $R_f$

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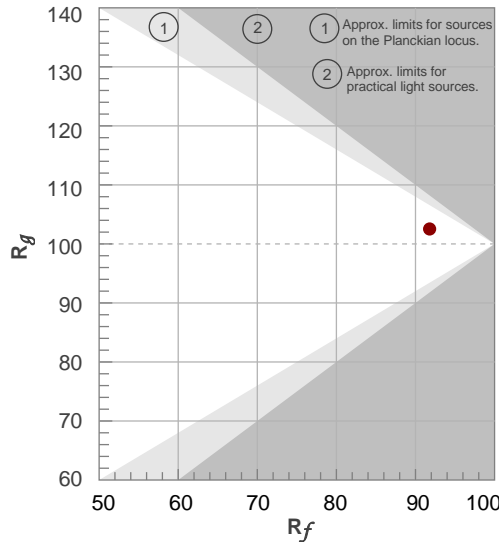
**$R_g$  102.5**  
Gammut index  $R_g$

TM30: 91.8

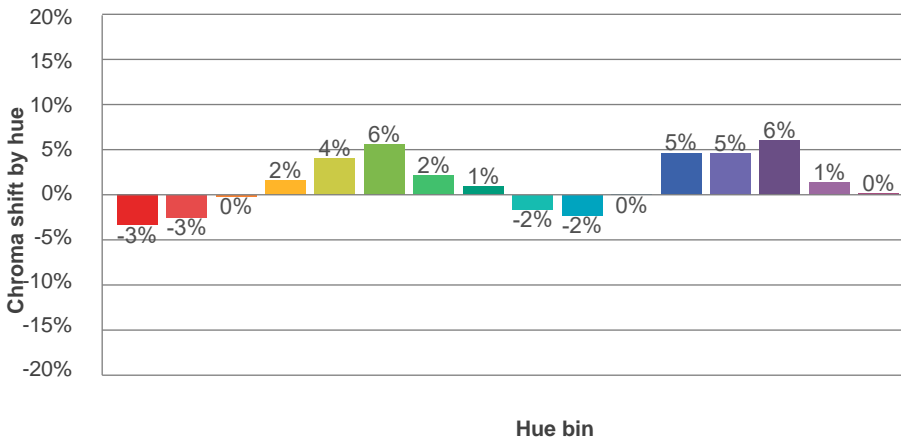
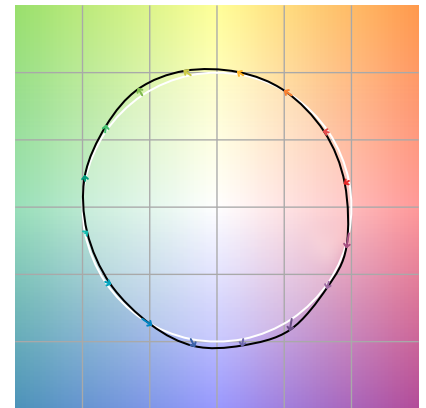
TM-30Color



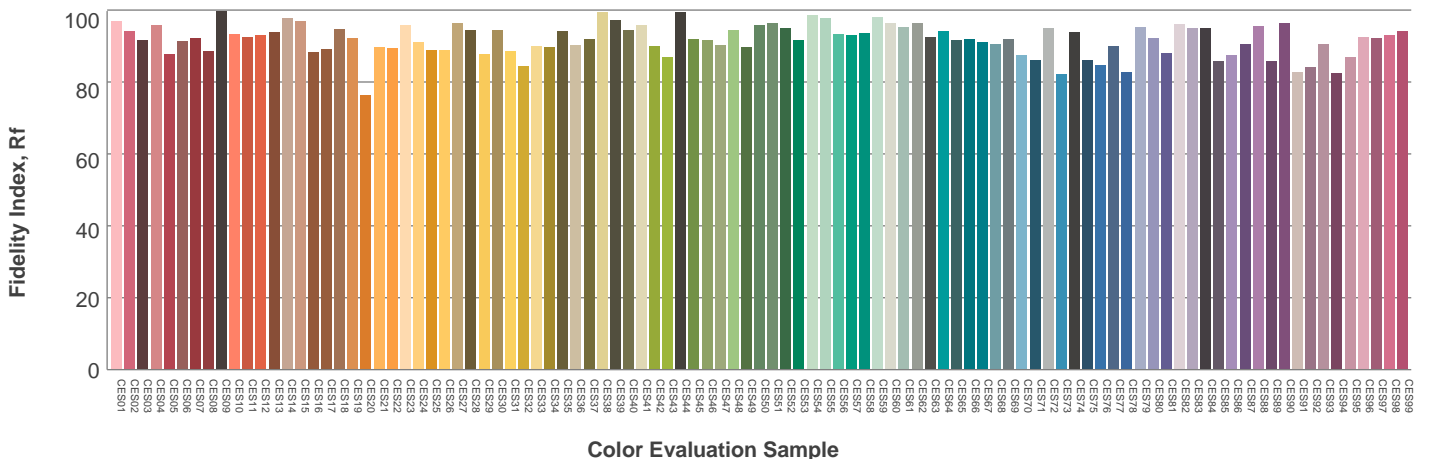
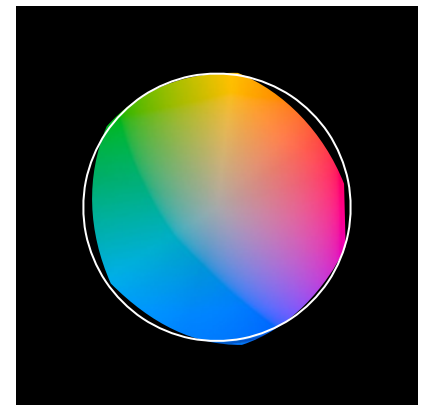
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



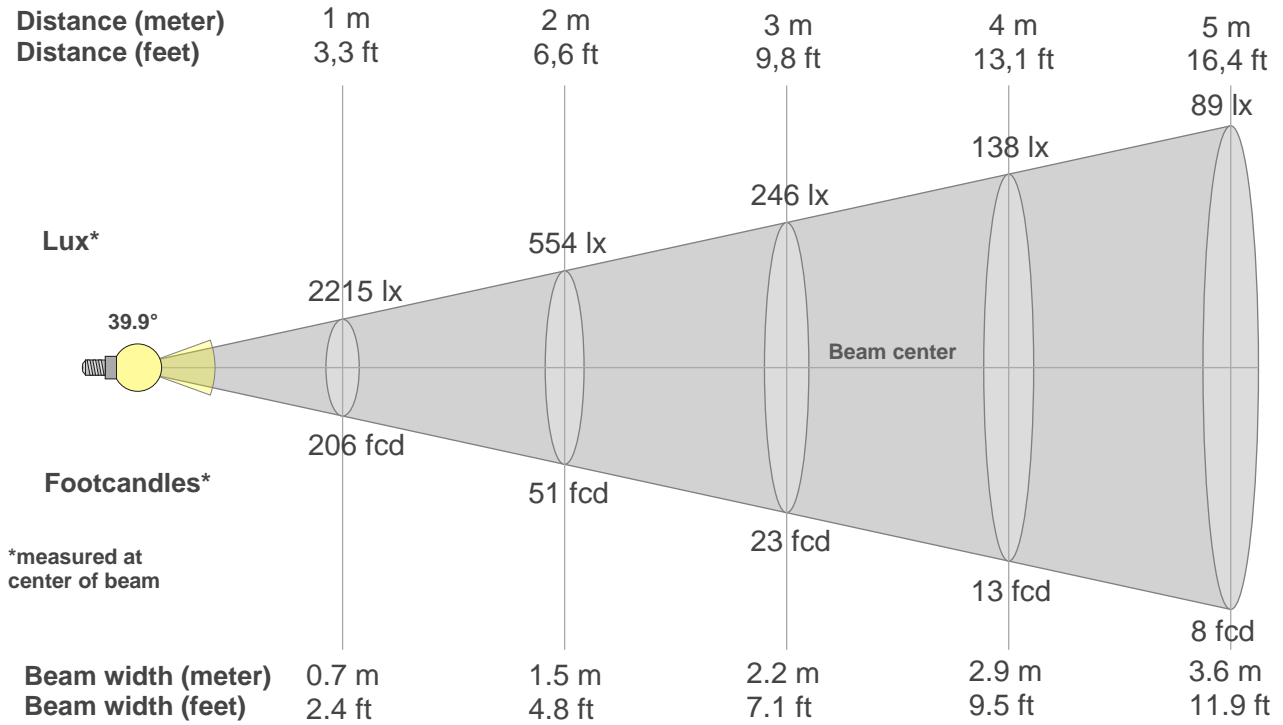
Color vector graphics



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
2215lx	554lx	246lx	138lx	89lx	62lx	45lx	35lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	6lx
205.8fcd	51.5fcd	22.9fcd	12.9fcd	8.2fcd	5.7fcd	4.2fcd	3.2fcd	2.5fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1.1fcd	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°
2215	2209	2166	2099	2014	1910	1784	1636	1472	1295	1109	917	733	566	416	289	189	118	77	49
100%	100%	98%	95%	91%	86%	81%	74%	66%	58%	50%	41%	33%	26%	19%	13%	9%	5%	3%	2%

#### 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°
2215	2204	2172	2113	2028	1924	1797	1645	1471	1281	1096	922	760	611	471	344	236	148	84	48
100%	100%	98%	95%	92%	87%	81%	74%	66%	58%	49%	42%	34%	28%	21%	16%	11%	7%	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°
2215	2205	2171	2115	2036	1929	1802	1654	1485	1299	1109	927	755	595	447	317	214	138	87	54
100%	100%	98%	95%	92%	87%	81%	75%	67%	59%	50%	42%	34%	27%	20%	14%	10%	6%	4%	2%

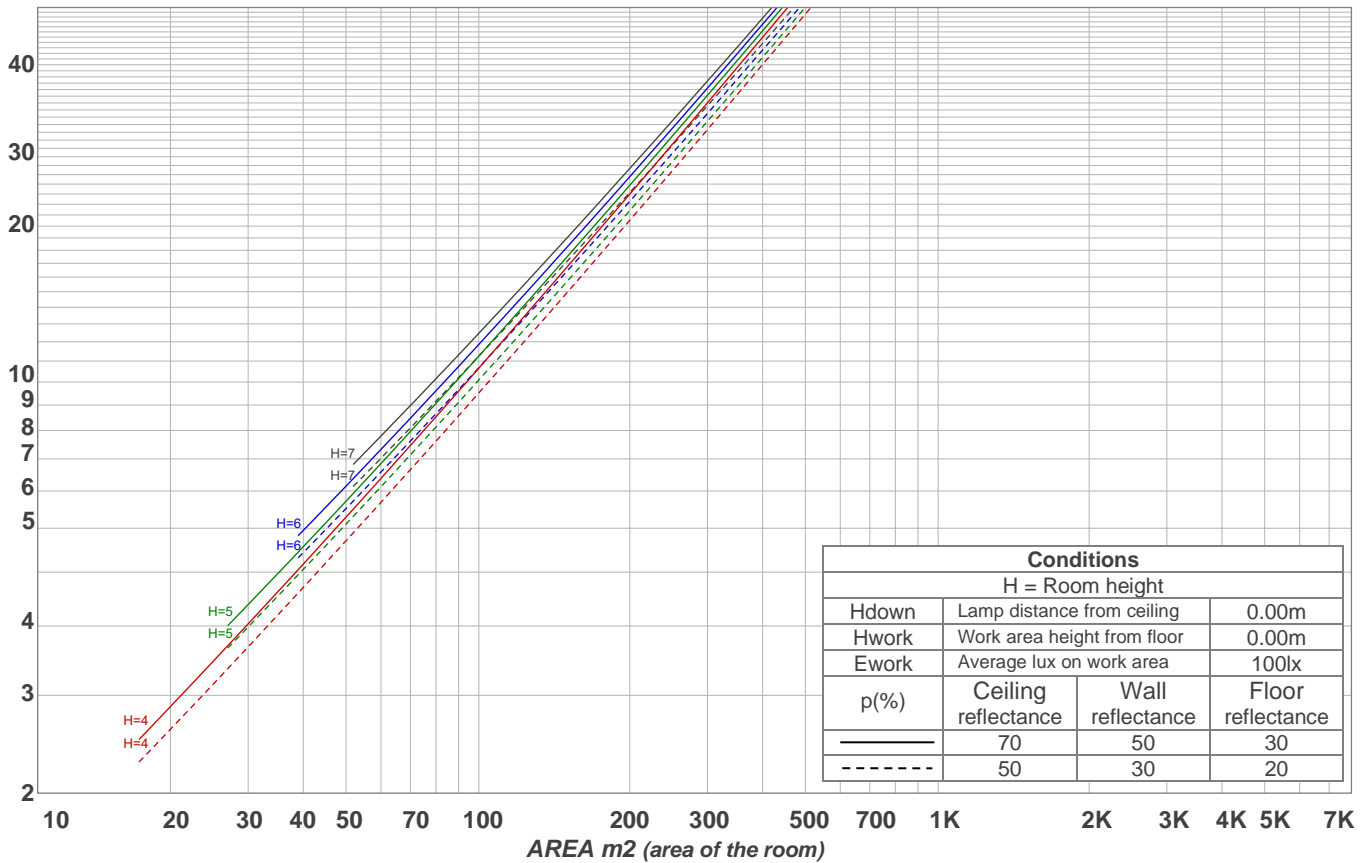
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2215	2196	2158	2098	2017	1911	1786	1642	1474	1288	1095	898	703	517	358	236	146	85	47	27
100%	99%	97%	95%	91%	86%	81%	74%	67%	58%	49%	41%	32%	23%	16%	11%	7%	4%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.9°	62.8°	74.2°	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	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86	86	86	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82	82	82	82
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78	78	78	78
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75	75	75	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72	72	72	72
8	87	79	74	71	86	79	74	71	78	73	70	77	73	70	76	72	70	69	69	69	69
9	84	76	71	68	83	75	71	68	75	70	67	74	70	67	73	70	67	66	66	66	66
10	81	73	68	65	80	73	68	65	72	68	65	71	67	65	70	67	64	63	63	63	63

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
197 lm	425 lm	297 lm	70.0 lm	9.65 lm	4.26 lm	3.42 lm	2.94 lm	2.47 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