

Light efficiency:



Output: 1001 lm

Light quality:

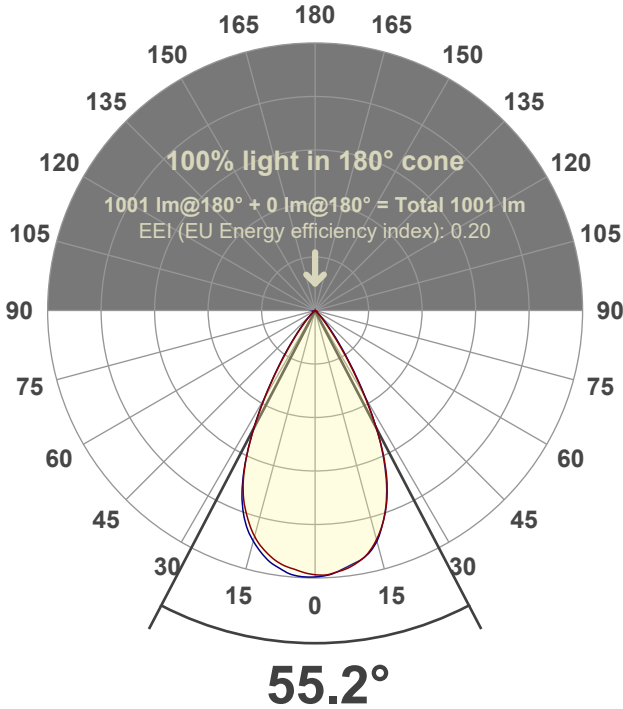


Peak: 1287 cd

Power: 15.1 W



Beam angle



Test number:

GR-O-F-A14-2722-WF-SQ-91A-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-A14-2722 60° Optic-Solite

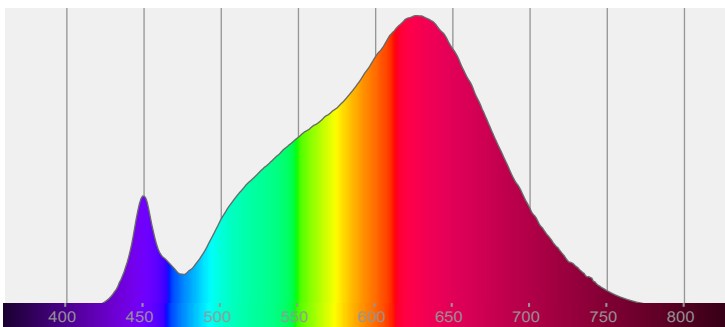
Date and time:

6/30/2022 7:06:22 PM

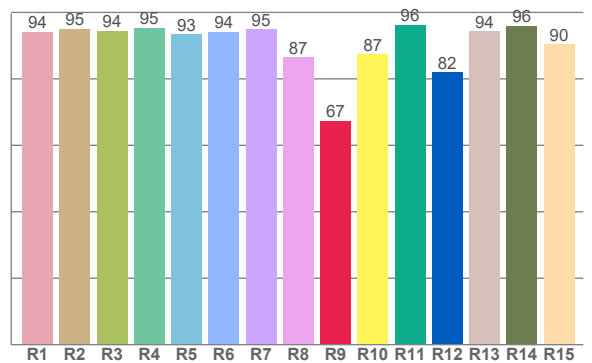
Delivered Lumens

1001

Spectra



CRI: 93.5 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	93.5	67.4	92.7	100.8	91.5	0.457	0.414	0.259	0.352	0.0015

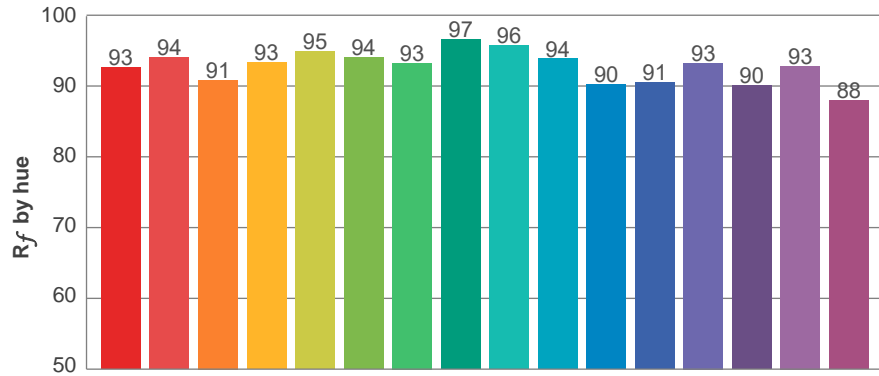
**$R_f$  92.7**  
Fidelity index  $R_f$

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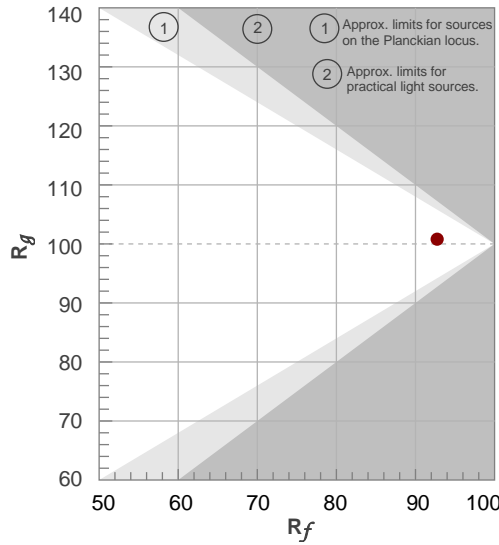
**$R_g$  100.8**  
Gammut index  $R_g$

TM30: 92.7

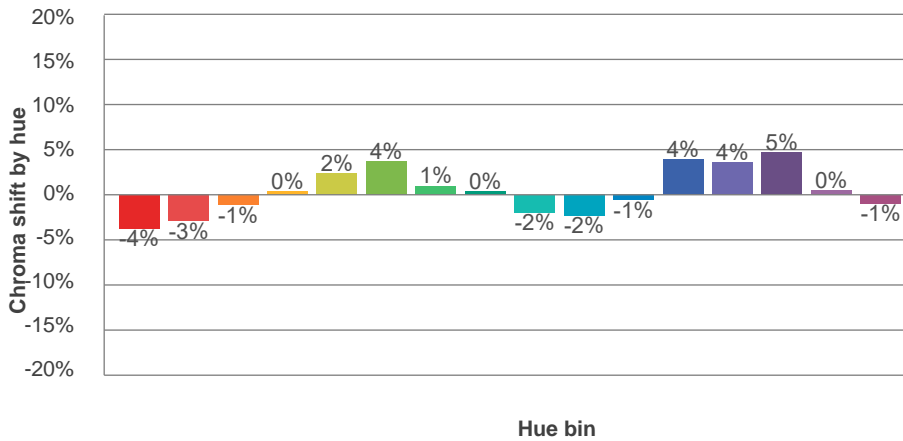
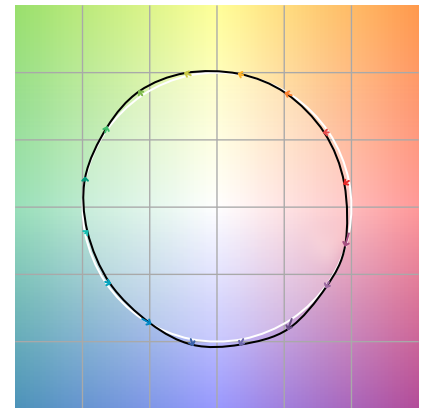
TM-30Color



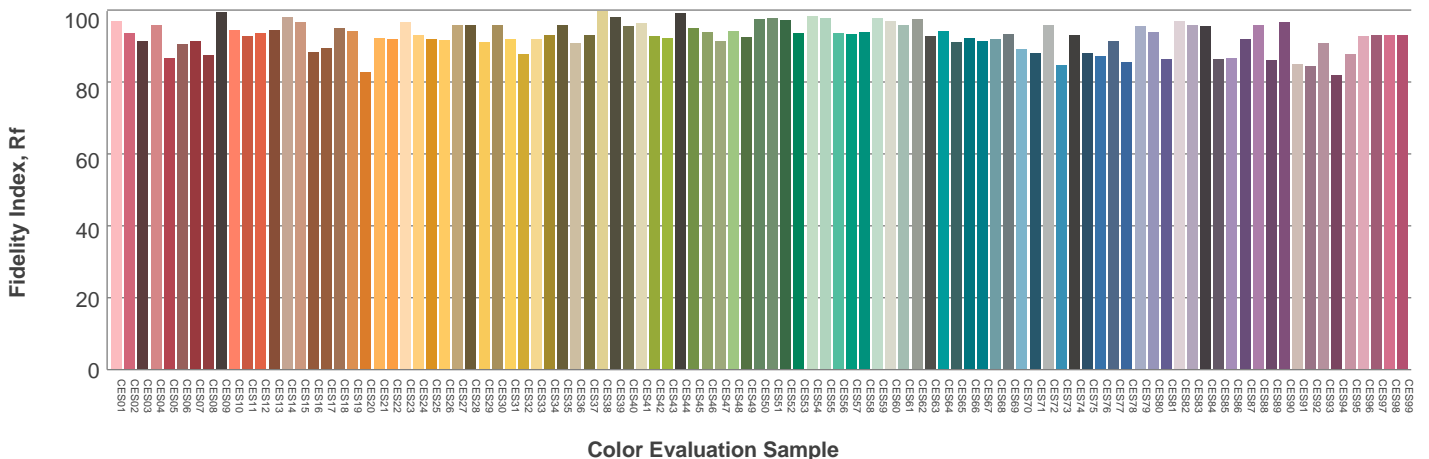
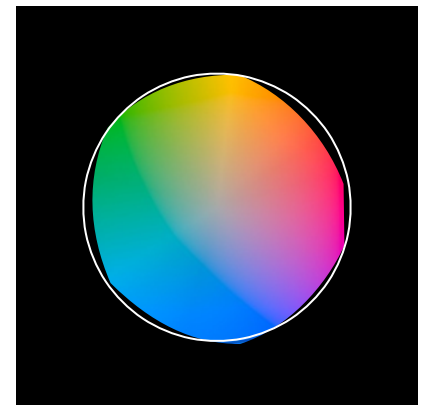
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	93	0%	3%
5	95	2%	4%
6	94	4%	0%
7	93	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	-1%	7%
12	91	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



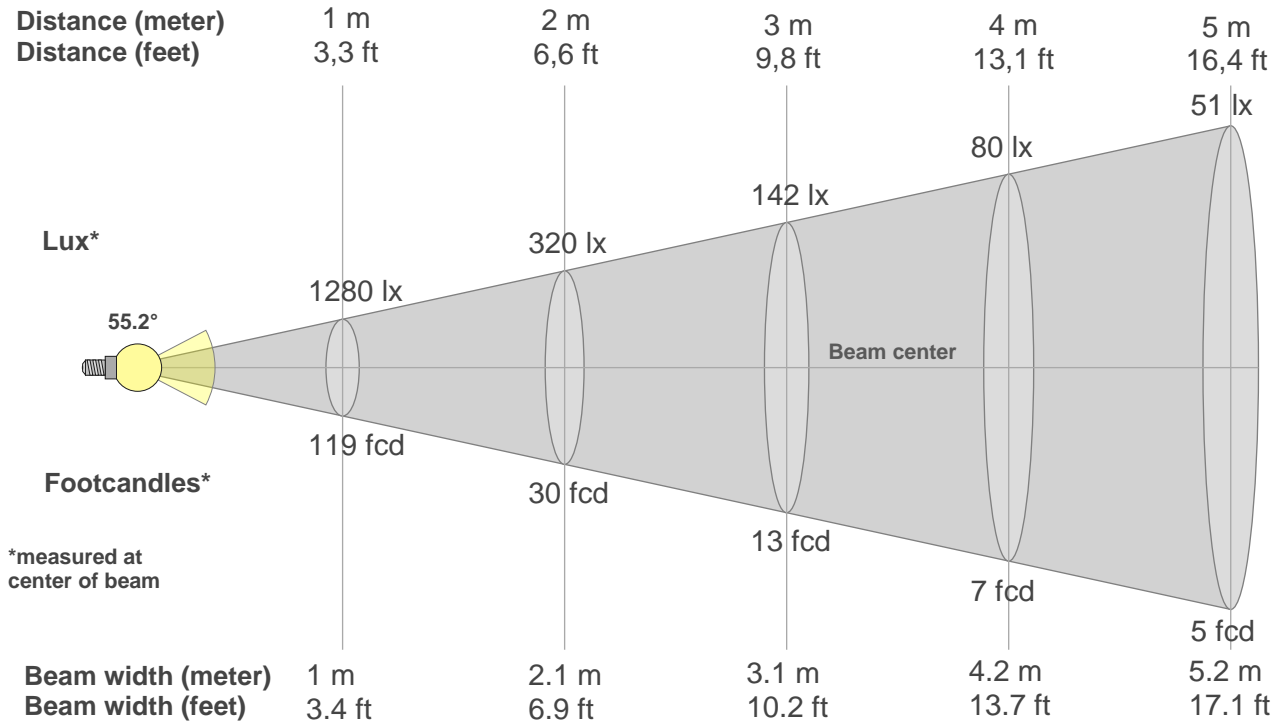
Color vector graphics



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
1280lx	320lx	142lx	80lx	51lx	36lx	26lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx
118.9fcd	29.7fcd	13.2fcd	7.4fcd	4.8fcd	3.3fcd	2.4fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

#### 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°
1280	1277	1270	1260	1247	1228	1204	1167	1121	1067	1004	930	841	736	614	488	369	267	186	126
100%	100%	99%	98%	97%	96%	94%	91%	88%	83%	78%	73%	66%	57%	48%	38%	29%	21%	15%	10%

#### 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°
1280	1281	1272	1256	1241	1226	1205	1172	1126	1067	1002	923	831	729	617	498	384	284	208	150
100%	100%	99%	98%	97%	96%	94%	92%	88%	83%	78%	72%	65%	57%	48%	39%	30%	22%	16%	12%

#### 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°
1280	1268	1256	1245	1231	1209	1182	1149	1107	1055	997	927	839	734	615	495	382	285	208	149
100%	99%	98%	97%	96%	94%	92%	90%	86%	82%	78%	72%	66%	57%	48%	39%	30%	22%	16%	12%

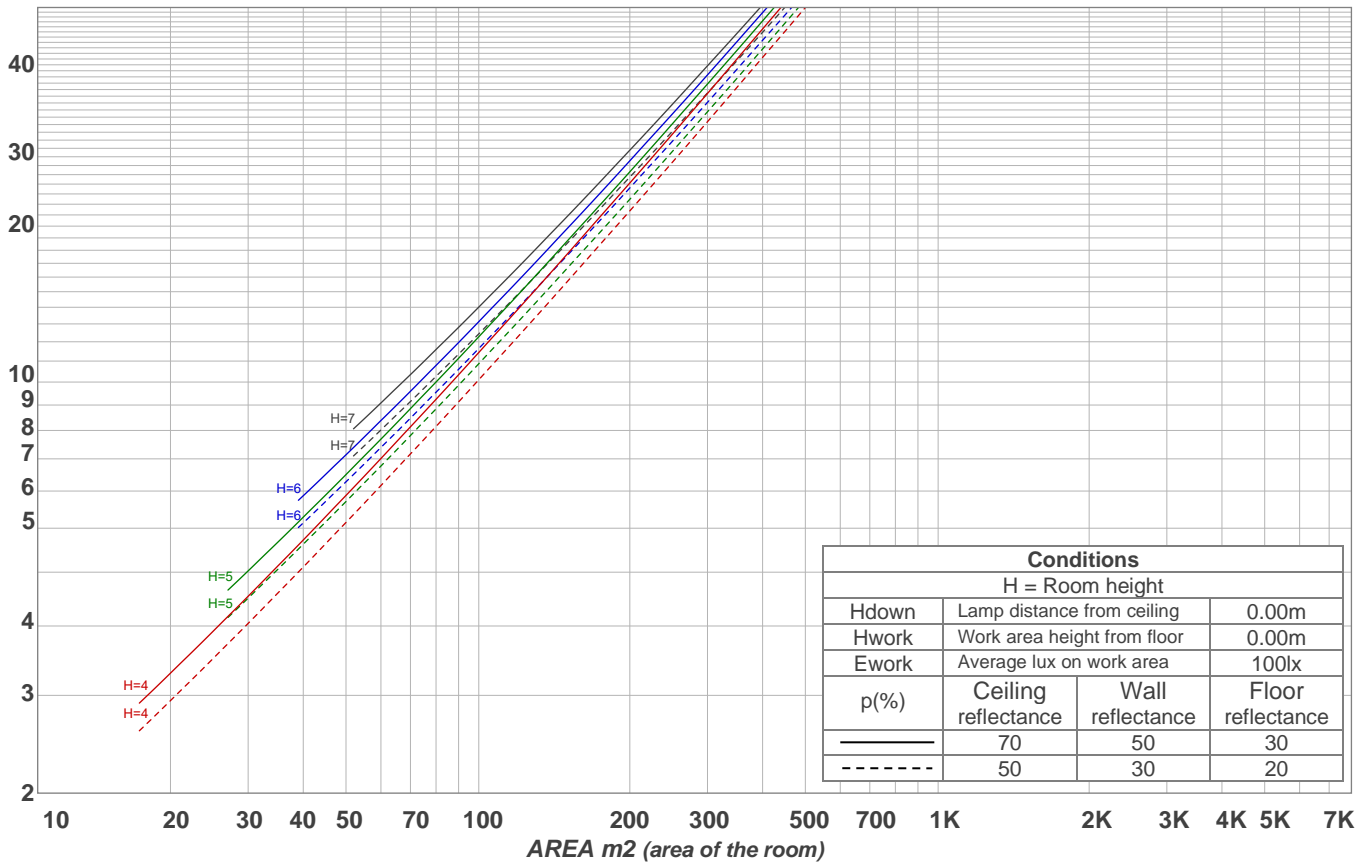
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1280	1286	1283	1273	1255	1235	1206	1171	1131	1082	1020	943	847	734	617	499	389	296	220	160
100%	100%	100%	99%	98%	96%	94%	92%	88%	85%	80%	74%	66%	57%	48%	39%	30%	23%	17%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55.2°	77.5°	92.8°	99.0%	97.2%

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	0
Floor reflectance	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
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
119 lm	318 lm	351 lm	158 lm	35.8 lm	7.63 lm	4.26 lm	3.21 lm	2.30 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