

Light efficiency:



Output: 979 lm

Light quality:

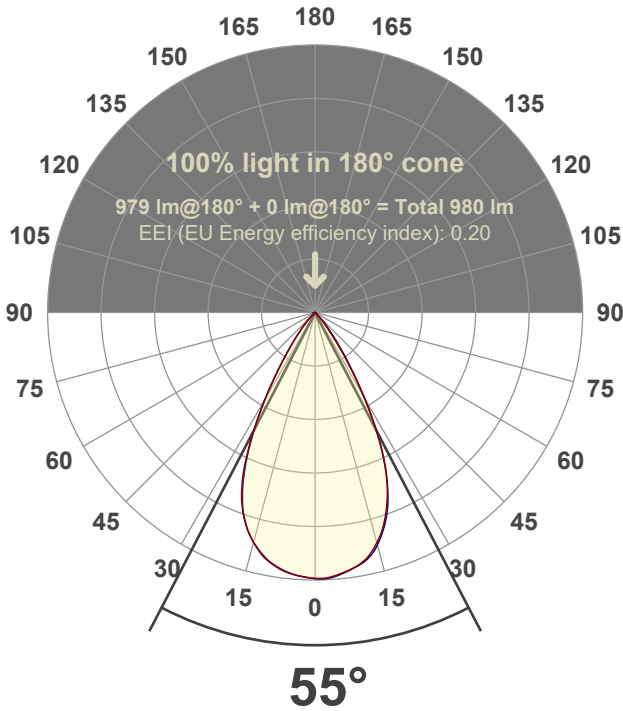


Peak: 1260 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti OpenSquare Fixed Downlight-A14-3022 60° Optic-Solite

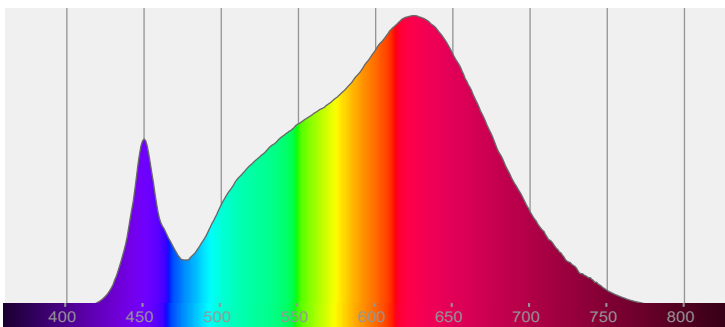
Date and time:

6/30/2022 5:02:19 PM

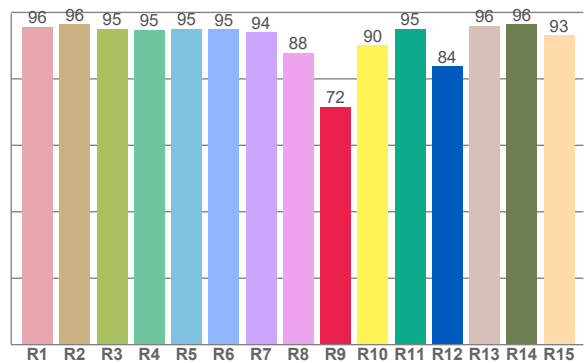
Delivered Lumens

979

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	71.6	91.8	102.7	91.0	0.434	0.398	0.252	0.346	-0.0022

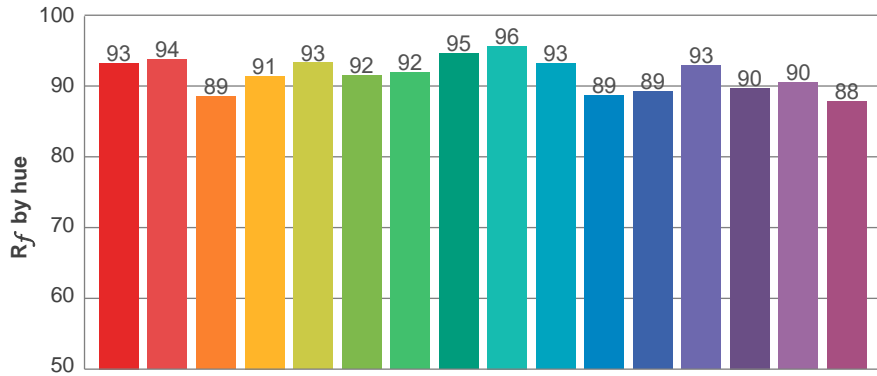
**$R_f$  91.8**  
Fidelity index  $R_f$

---

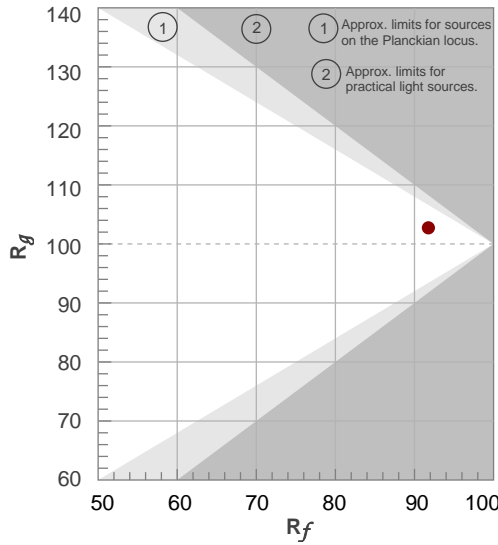
**$R_g$  102.7**  
Gammut index  $R_g$

TM30: 91.8

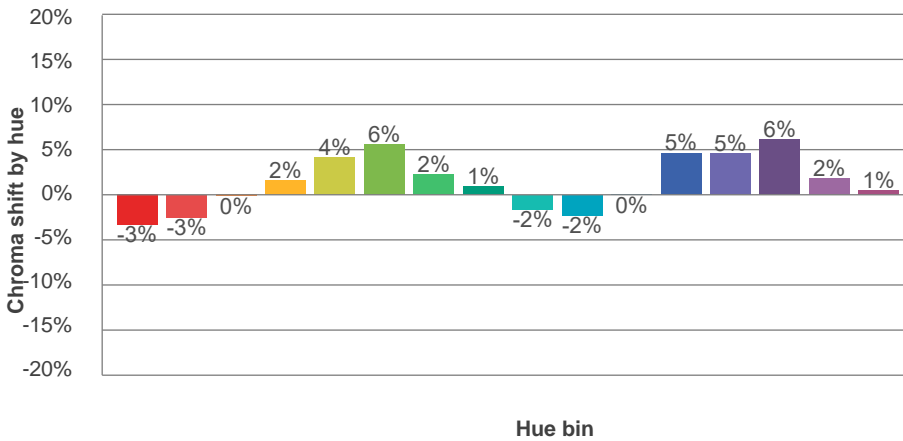
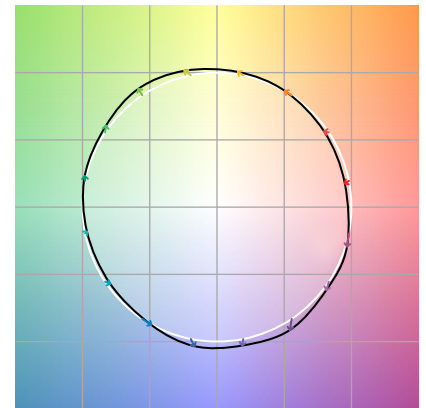
TM-30Color



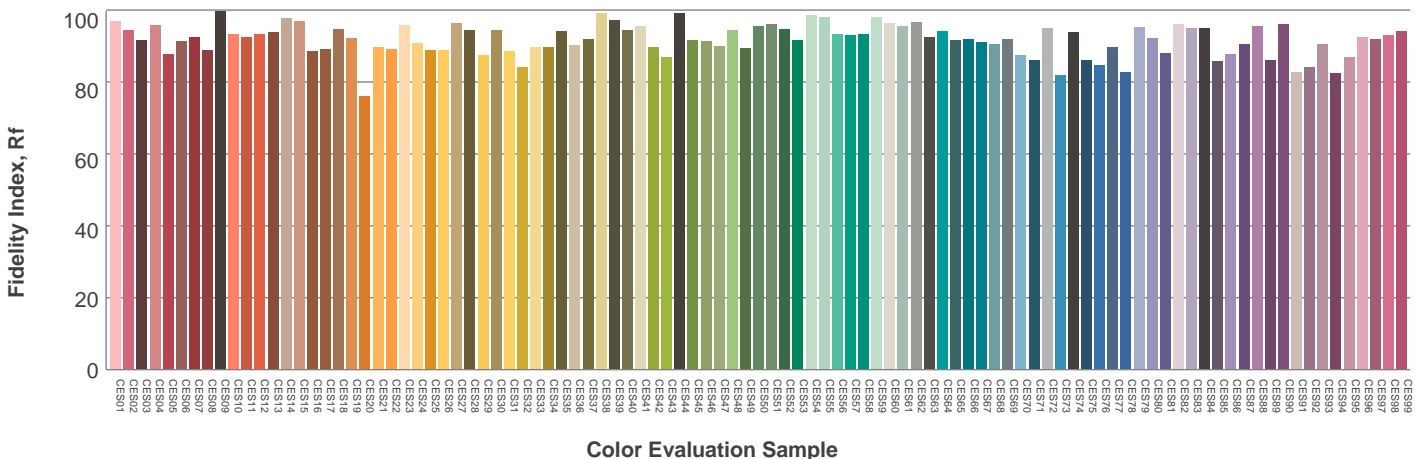
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	90	2%	-6%
16	88	1%	-10%



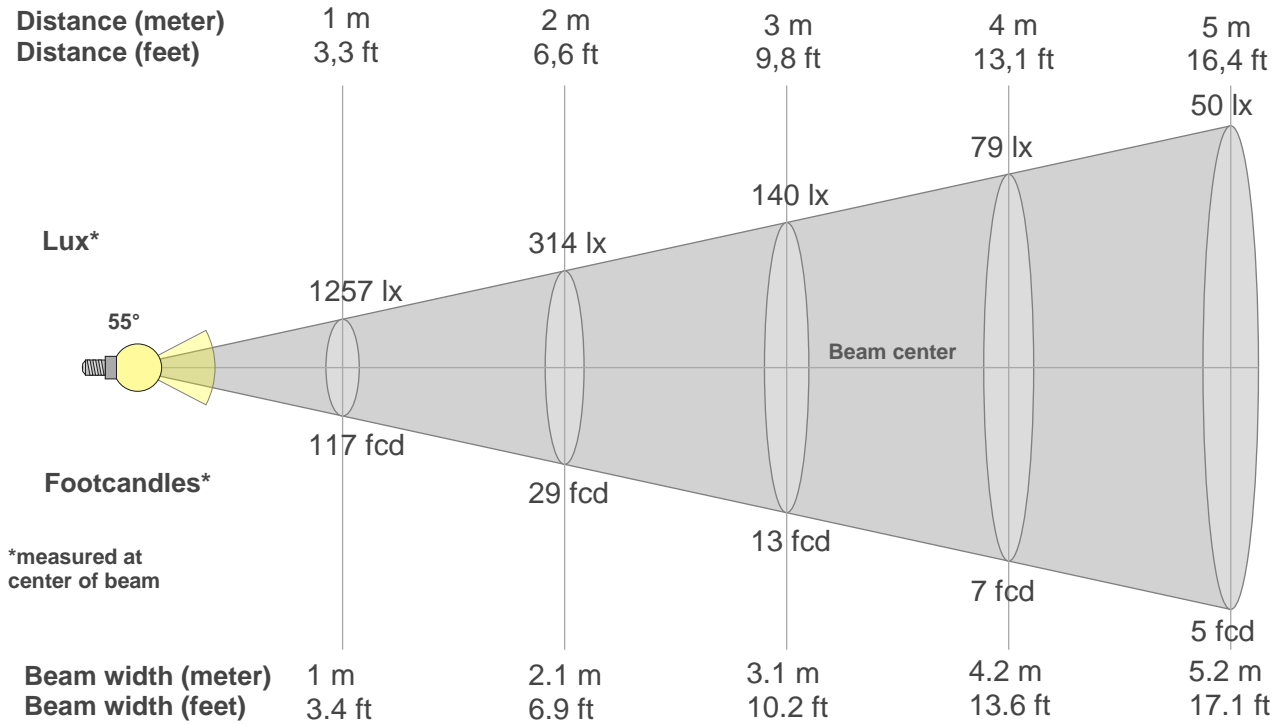
Color vector graphics



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
1257lx	314lx	140lx	79lx	50lx	35lx	26lx	20lx	16lx	13lx	10lx	9lx	7lx	6lx	6lx	5lx	4lx	4lx	3lx	3lx
116.8fcd	29.2fcd	13fcd	7.3fcd	4.7fcd	3.2fcd	2.4fcd	1.8fcd	1.4fcd	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°
1257	1256	1249	1238	1225	1209	1185	1148	1104	1051	987	914	826	721	601	474	352	252	173	115
100%	100%	99%	98%	97%	96%	94%	91%	88%	84%	79%	73%	66%	57%	48%	38%	28%	20%	14%	9%

#### 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°
1257	1259	1254	1241	1227	1211	1190	1160	1114	1060	997	919	825	717	598	477	367	273	198	143
100%	100%	100%	99%	98%	96%	95%	92%	89%	84%	79%	73%	66%	57%	48%	38%	29%	22%	16%	11%

#### 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°
1257	1252	1246	1236	1223	1203	1180	1145	1105	1057	1000	931	837	723	602	483	371	278	206	151
100%	100%	99%	98%	97%	96%	94%	91%	88%	84%	80%	74%	67%	58%	48%	38%	30%	22%	16%	12%

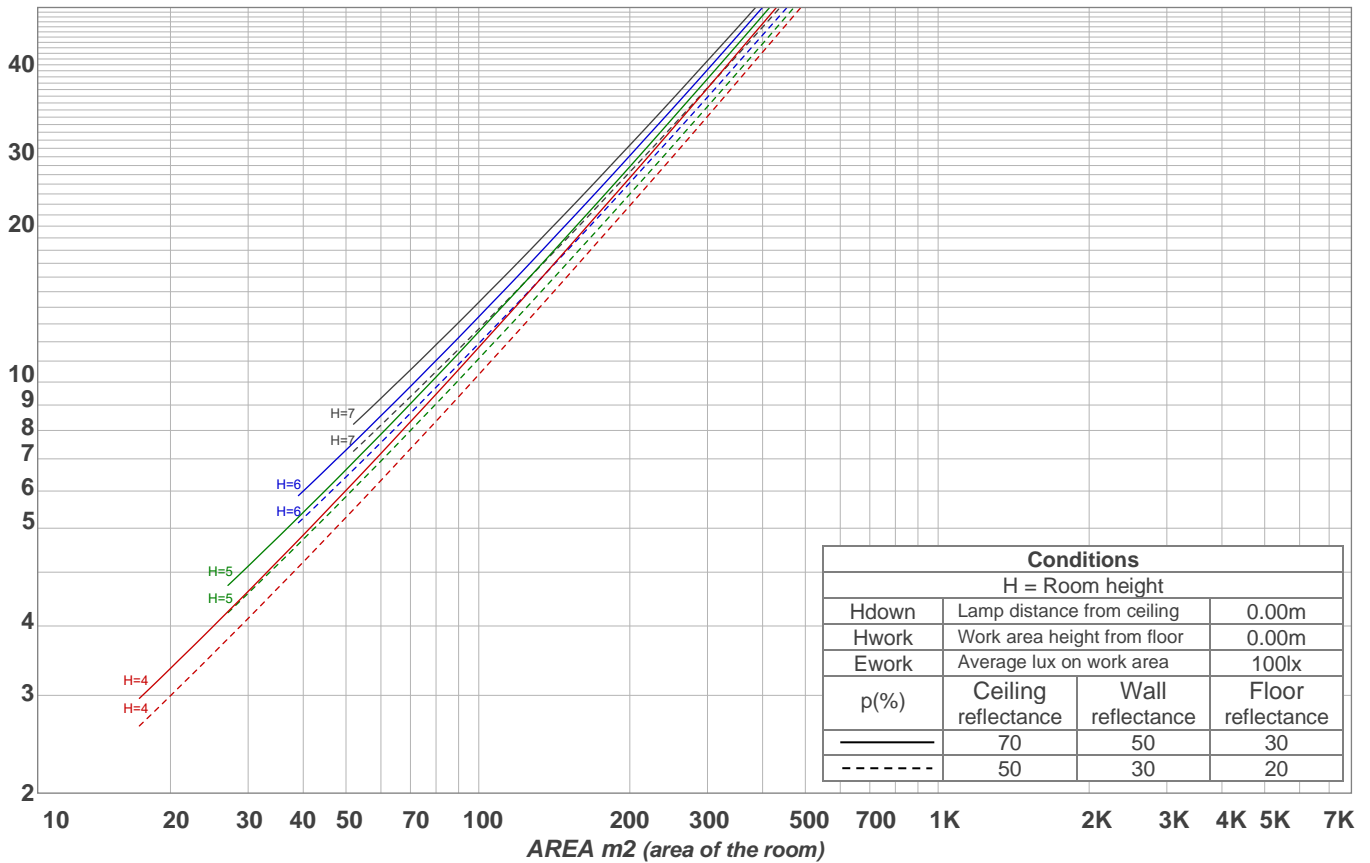
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1257	1252	1245	1234	1219	1200	1174	1142	1103	1057	996	917	822	714	598	479	371	278	203	145
100%	100%	99%	98%	97%	95%	93%	91%	88%	84%	79%	73%	65%	57%	48%	38%	30%	22%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55°	77.1°	92.1°	98.9%	97.1%

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

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
117 lm	314 lm	345 lm	151 lm	33.2 lm	7.03 lm	4.59 lm	3.78 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