

Light efficiency:



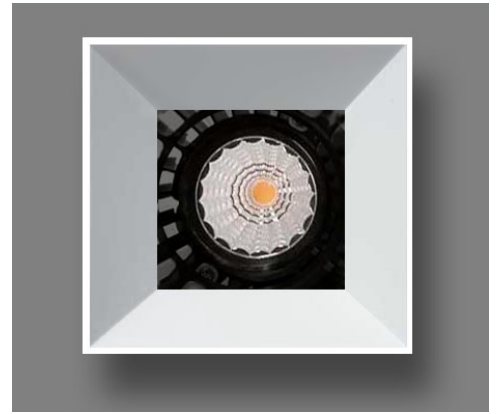
Output: 943 lm

Light quality:

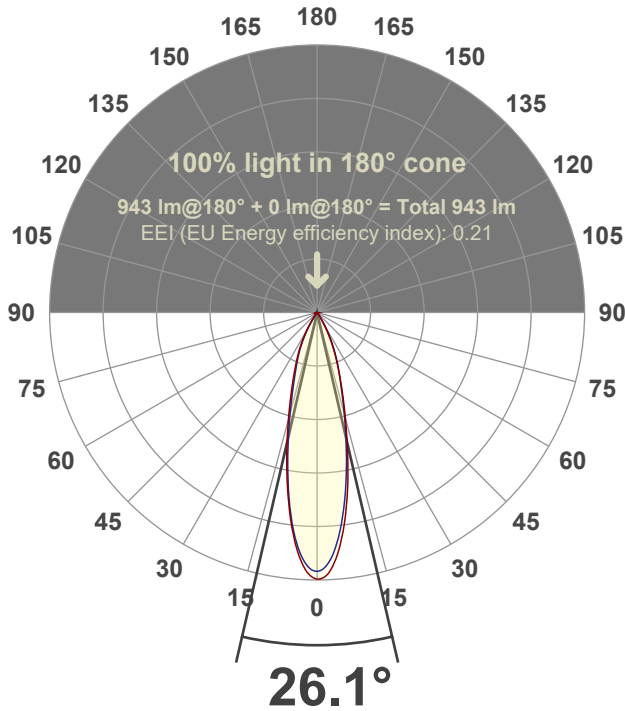


Peak: 3337 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Square Fixed Downlight-A14-2722 24° Optic-Solite

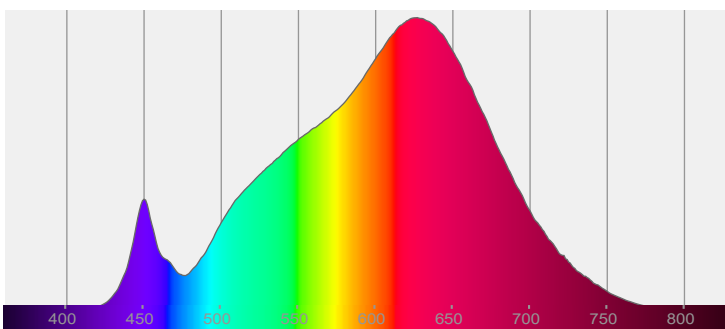
Date and time:

6/30/2022 5:51:54 PM

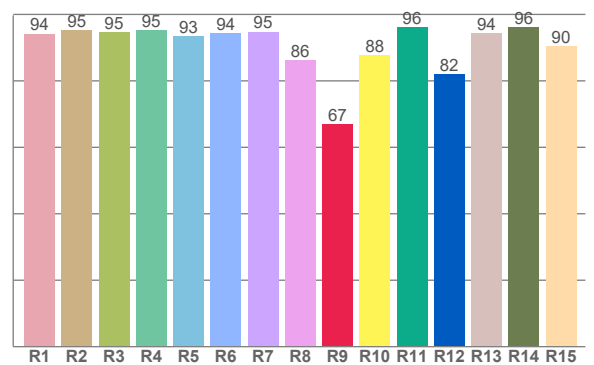
Delivered Lumens

943

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	67.0	92.7	100.7	91.4	0.458	0.414	0.260	0.352	0.0014

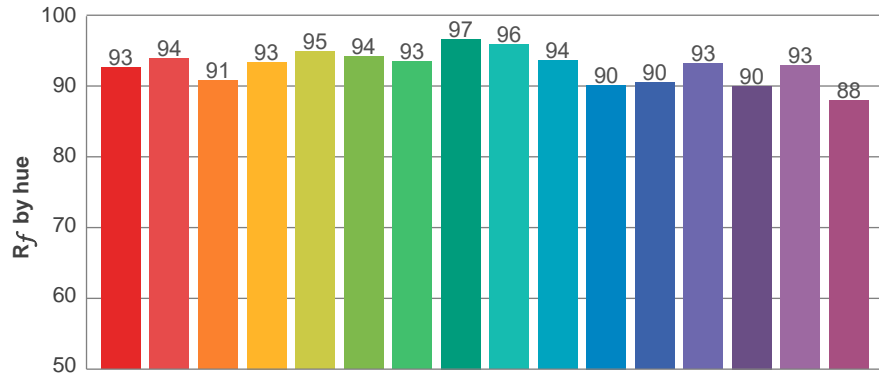
**$R_f$  92.7**  
Fidelity index  $R_f$

---

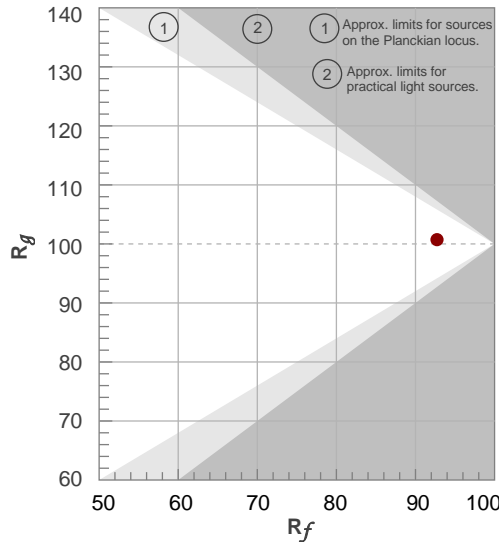
**$R_g$  100.7**  
Gammut index  $R_g$

TM30: 92.7

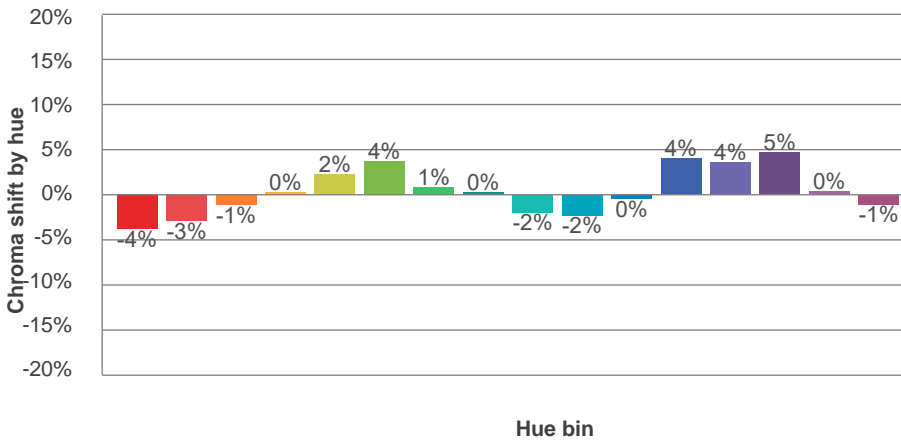
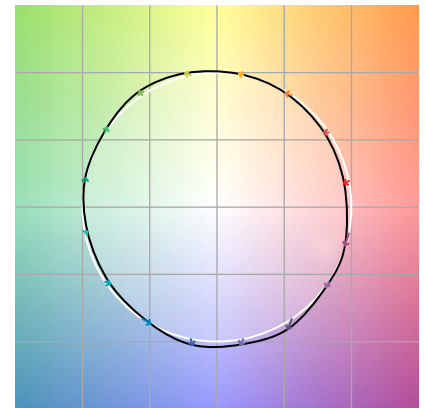
TM-30Color



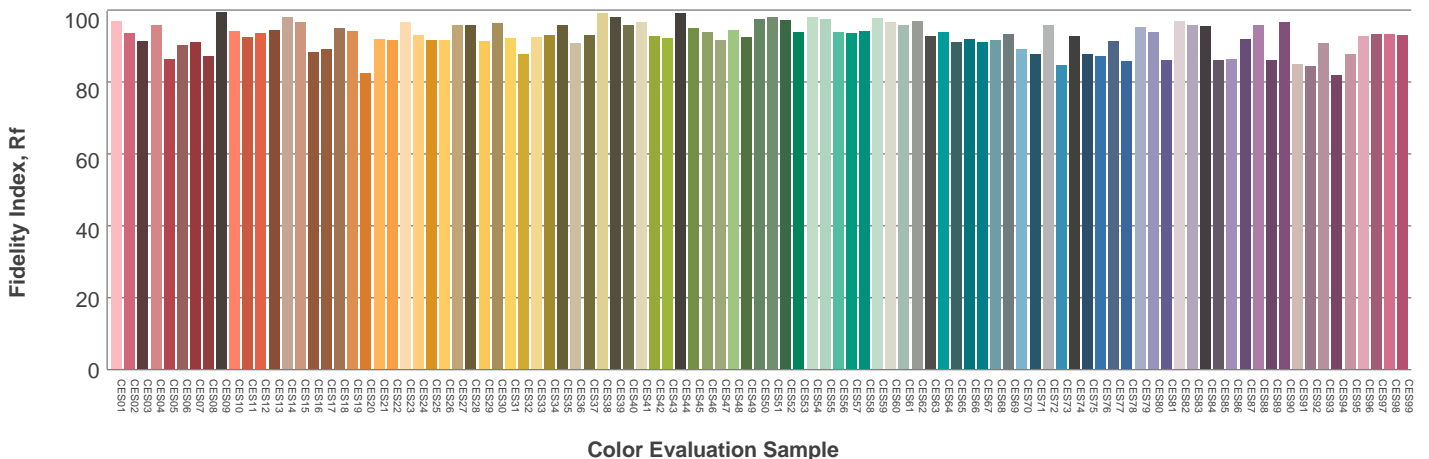
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	93	0%	3%
5	95	2%	4%
6	94	4%	0%
7	93	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	0%	7%
12	90	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



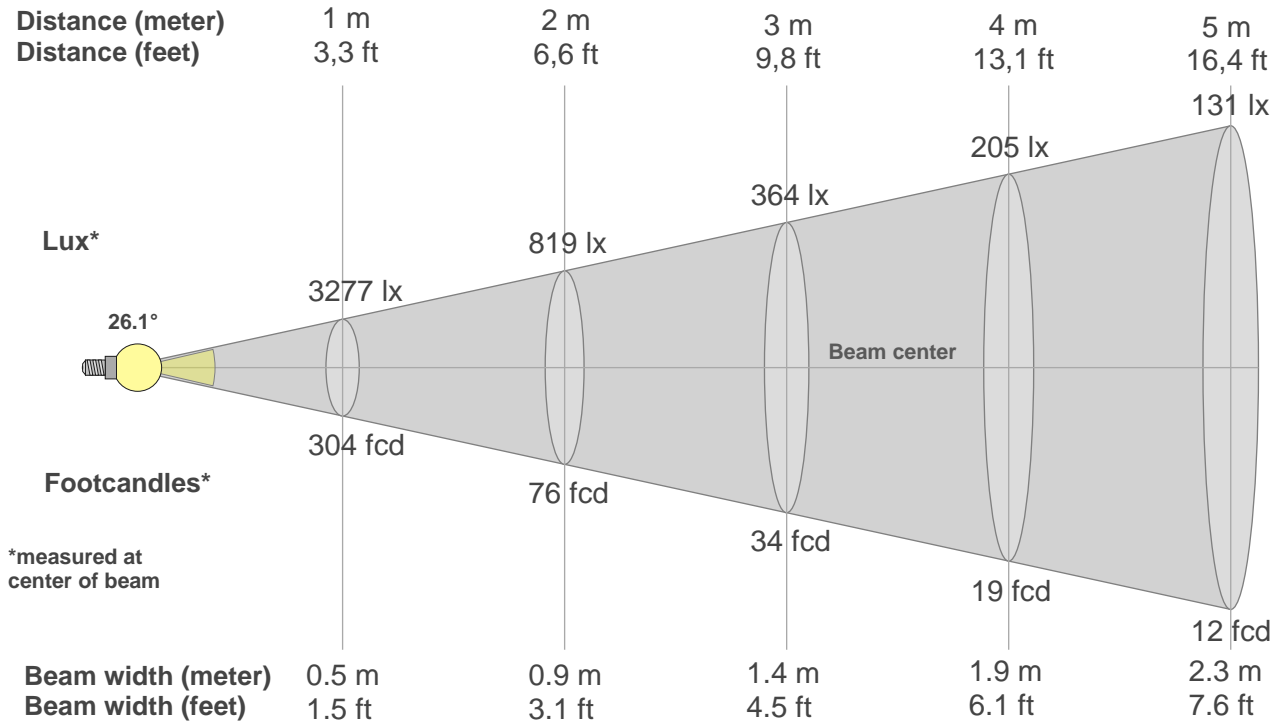
Color vector graphics



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
3277lx	819lx	364lx	205lx	131lx	91lx	67lx	51lx	40lx	33lx	27lx	23lx	19lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx
304.4fcd	76.1fcd	33.8fcd	19fcd	12.2fcd	8.5fcd	6.2fcd	4.8fcd	3.8fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.8fcd

#### 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°
3277	3281	3117	2868	2557	2210	1852	1528	1248	1015	823	664	529	407	299	208	137	90	60	37
100%	100%	95%	88%	78%	67%	57%	47%	38%	31%	25%	20%	16%	12%	9%	6%	4%	3%	2%	1%

#### 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°
3277	3160	2998	2747	2433	2101	1770	1463	1197	978	815	677	553	435	323	225	146	88	49	27
100%	96%	92%	84%	74%	64%	54%	45%	37%	30%	25%	21%	17%	13%	10%	7%	4%	3%	1%	1%

#### 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°
3277	3256	3070	2807	2495	2161	1836	1537	1276	1056	876	728	608	497	390	289	199	128	84	55
100%	99%	94%	86%	76%	66%	56%	47%	39%	32%	27%	22%	19%	15%	12%	9%	6%	4%	3%	2%

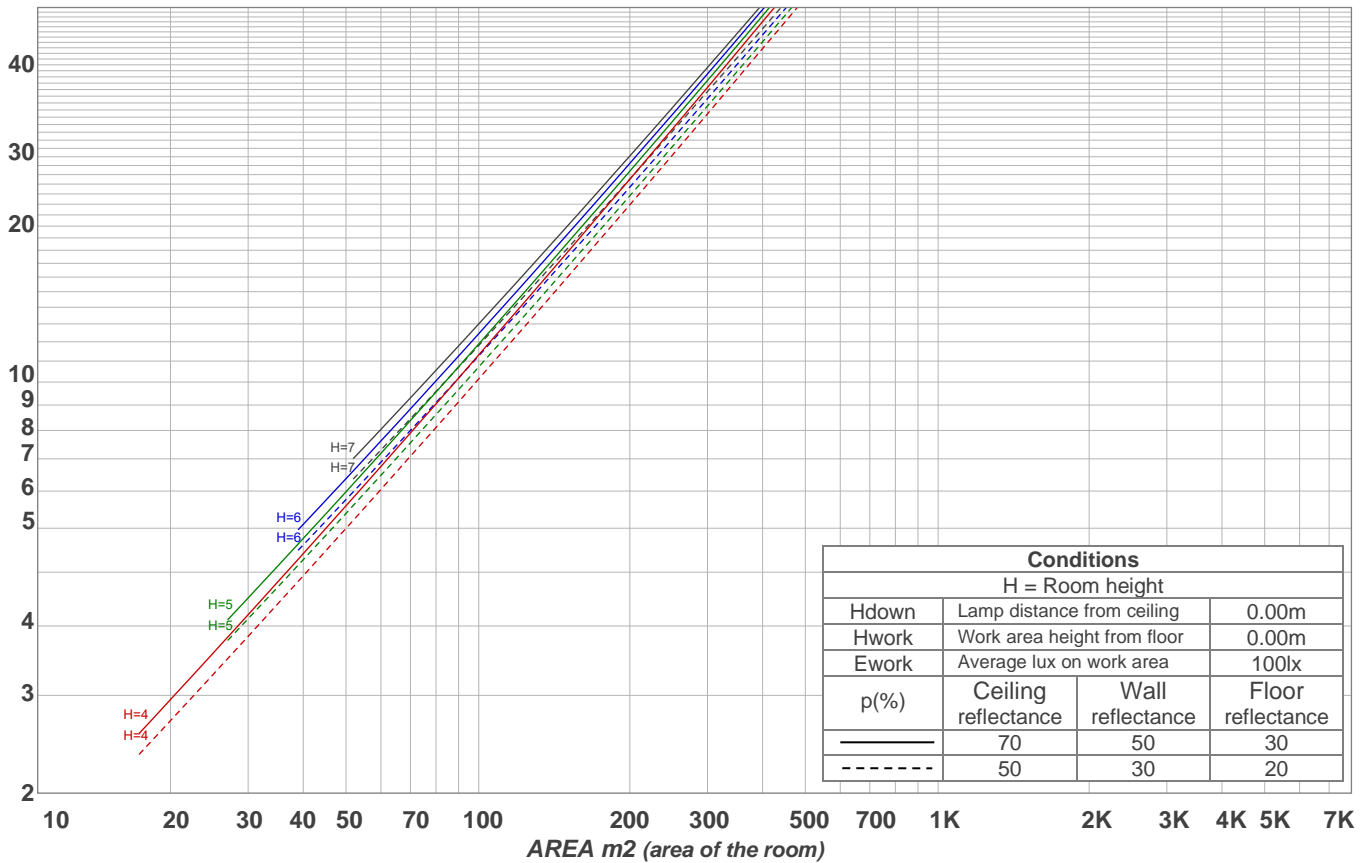
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3277	3171	3019	2768	2451	2108	1769	1456	1181	972	808	677	565	457	348	249	167	105	62	33
100%	97%	92%	84%	75%	64%	54%	44%	36%	30%	25%	21%	17%	14%	11%	8%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26.1°	56.5°	69.8°	98.8%	97.9%

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	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84	84	84	
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	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	77	83	79	76	82	78	76	81	78	75	74	74	74	
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72	72	
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69	69	69	
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
254 lm	376 lm	229 lm	58.7 lm	7.90 lm	5.95 lm	4.67 lm	3.29 lm	2.80 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