

Light efficiency:



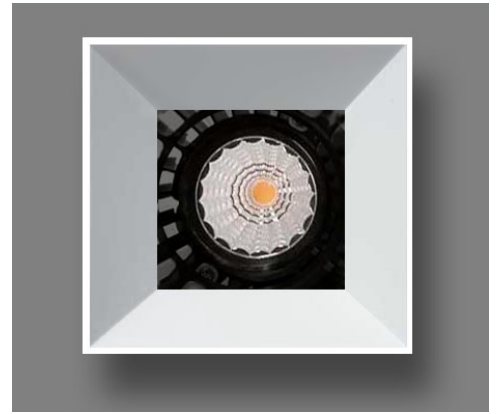
Output: 996 lm

Light quality:

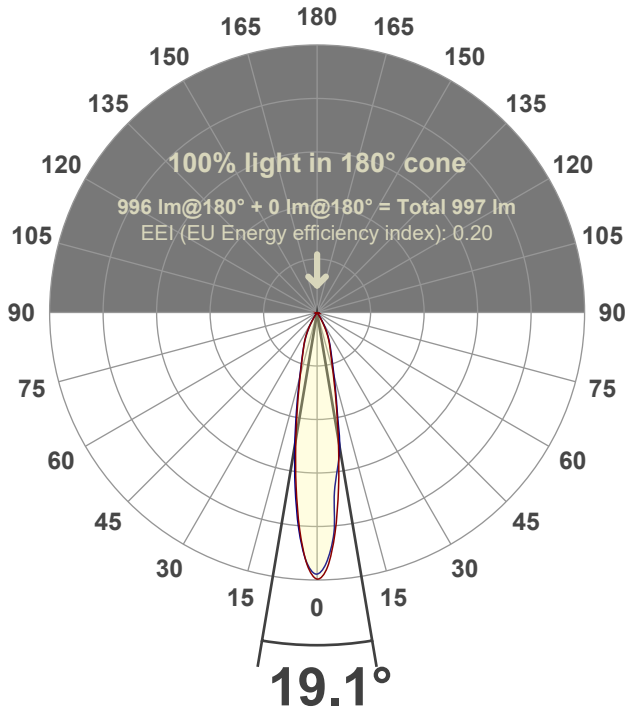


Peak: 5088 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Square Fixed Downlight-A14-2722 15° Optic-Solite

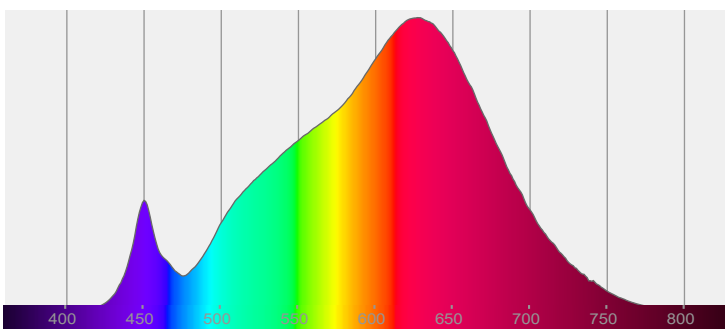
Date and time:

6/30/2022 5:29:59 PM

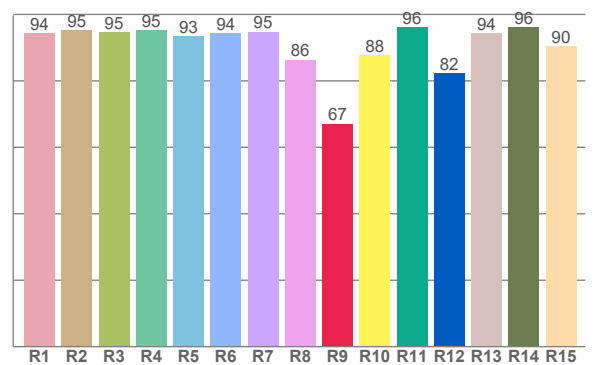
Delivered Lumens

996

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	67.1	92.8	100.7	91.5	0.458	0.414	0.260	0.352	0.0014

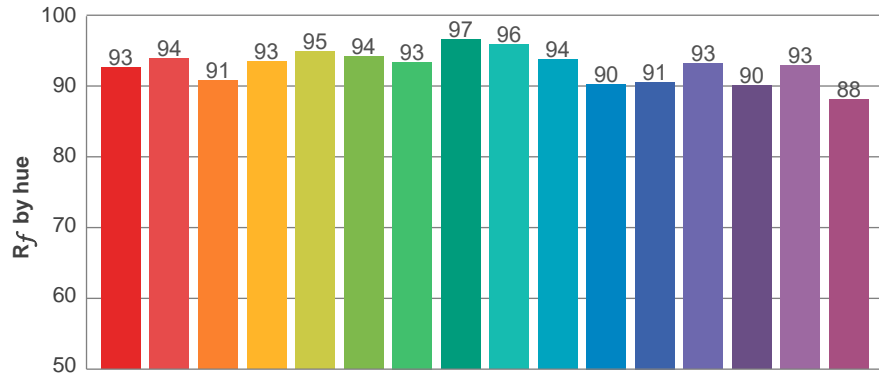
**$R_f$  92.8**  
Fidelity index  $R_f$

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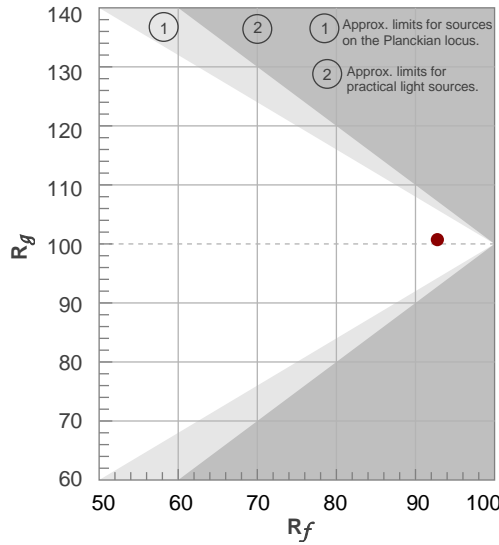
**$R_g$  100.7**  
Gammut index  $R_g$

TM30: 92.8

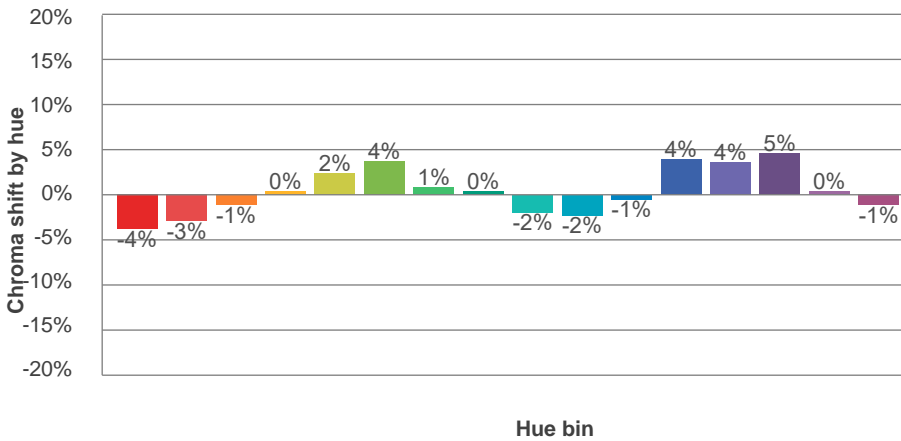
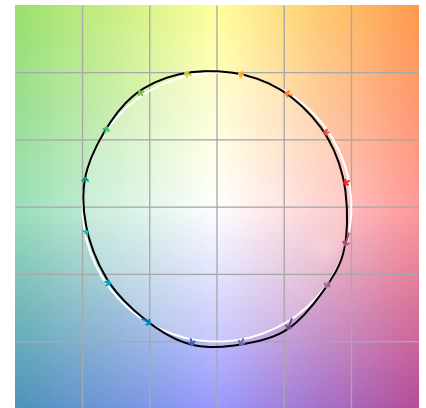
TM-30Color



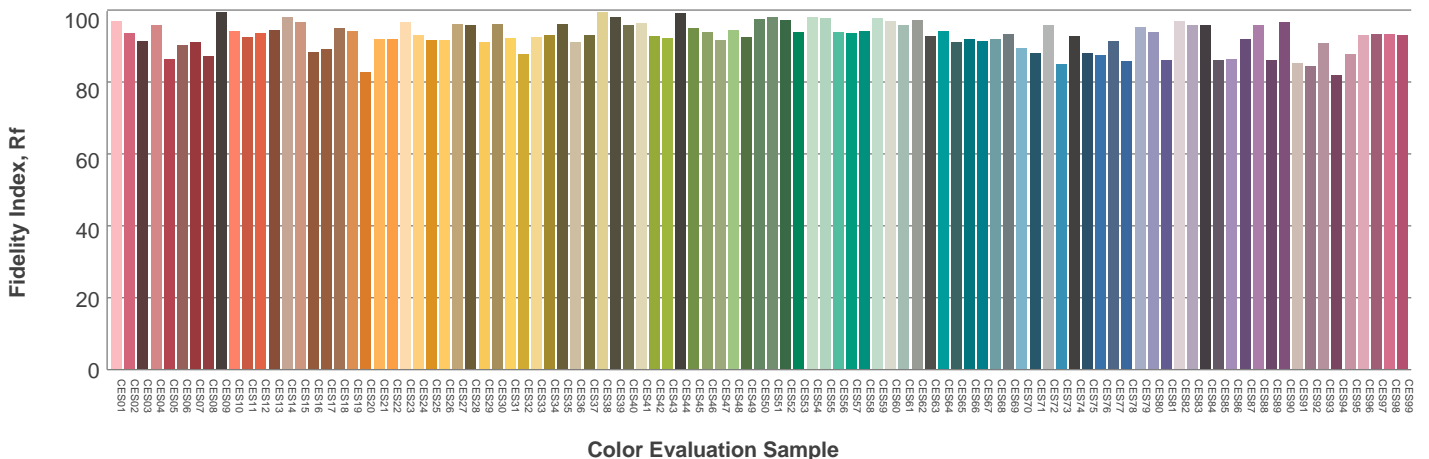
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	93	0%	3%
5	95	2%	4%
6	94	4%	0%
7	93	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	-1%	7%
12	91	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



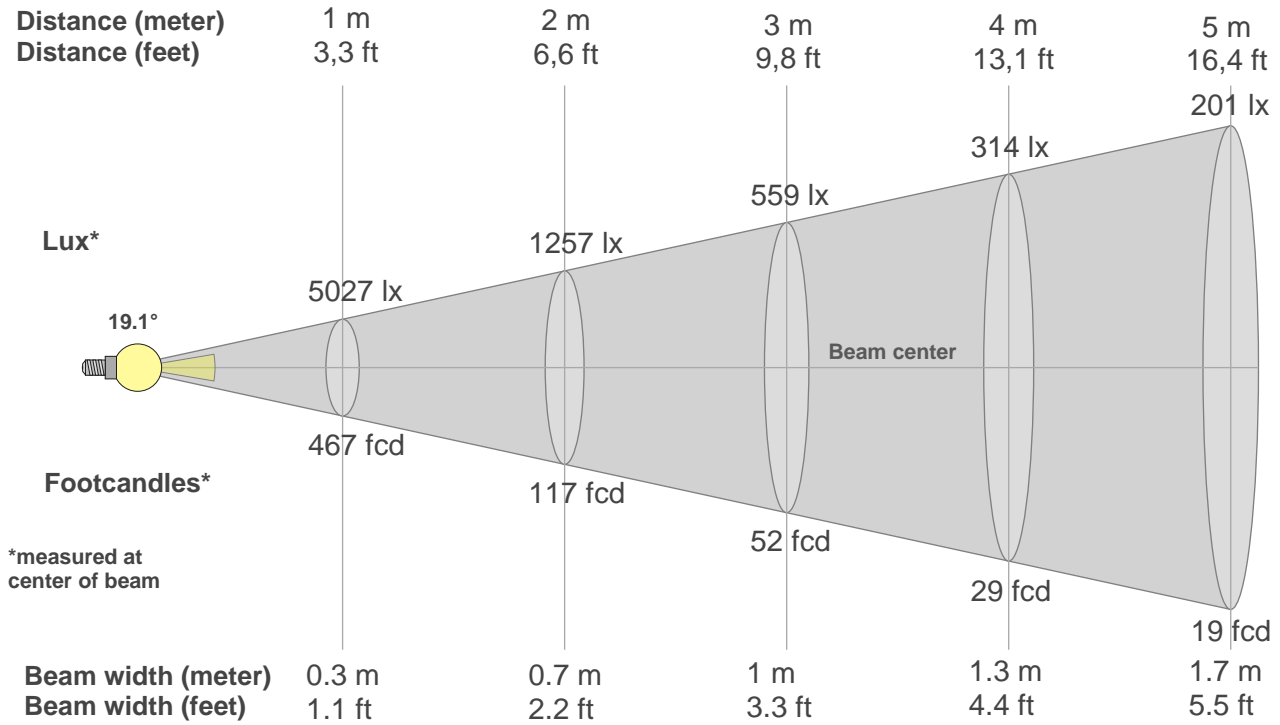
Color vector graphics



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
5027lx	1257lx	559lx	314lx	201lx	140lx	103lx	79lx	62lx	50lx	42lx	35lx	30lx	26lx	22lx	20lx	17lx	16lx	14lx	13lx
467.1fcd	116.8fcd	51.9fcd	29.2fcd	18.7fcd	13fcd	9.5fcd	7.3fcd	5.8fcd	4.7fcd	3.9fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.2fcd

#### 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°
5027	4895	4404	3732	3003	2322	1762	1339	1059	869	733	624	520	415	308	212	139	84	49	29
100%	97%	88%	74%	60%	46%	35%	27%	21%	17%	15%	12%	10%	8%	6%	4%	3%	2%	1%	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°
5027	4795	4309	3342	2932	2437	1839	1424	1122	917	771	653	547	446	344	247	166	109	71	45
100%	95%	86%	66%	58%	48%	37%	28%	22%	18%	15%	13%	11%	9%	7%	5%	3%	2%	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°
5027	4849	4327	3662	2970	2337	1813	1411	1132	936	791	682	587	488	384	281	190	121	72	41
100%	96%	86%	73%	59%	46%	36%	28%	23%	19%	16%	14%	12%	10%	8%	6%	4%	2%	1%	1%

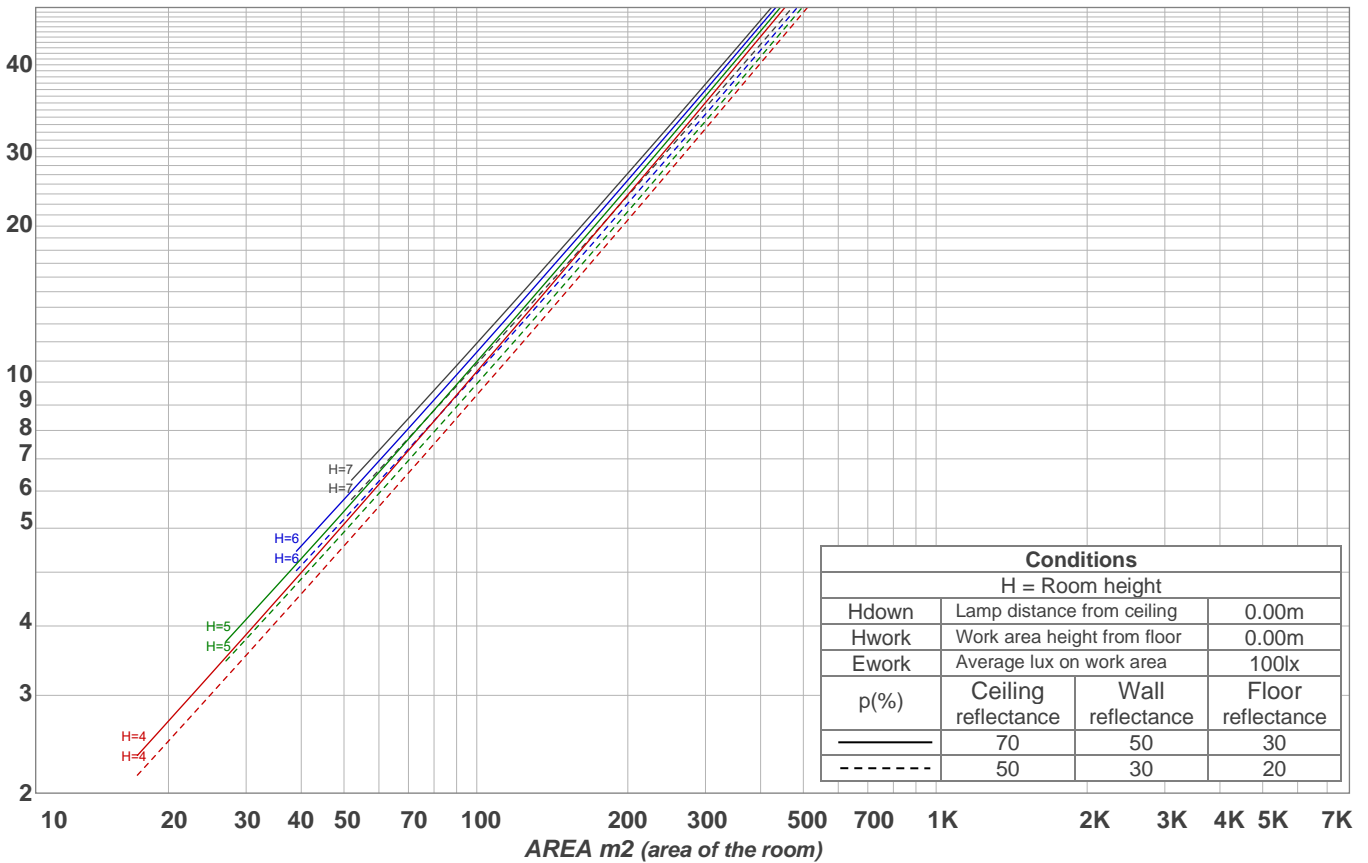
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5027	4802	4368	3761	3089	2447	1896	1468	1165	954	800	674	560	452	347	251	173	115	74	46
100%	96%	87%	75%	61%	49%	38%	29%	23%	19%	16%	13%	11%	9%	7%	5%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.1°	49.9°	66.6°	99.0%	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	
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88	88	
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	
5	100	93	89	86	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82	82	
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	79	79	
7	93	86	82	79	92	86	82	79	85	81	78	84	80	78	83	80	77	76	76	76	
8	91	83	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	74	74	74	
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72	72	72	
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
327 lm	362 lm	224 lm	61.1 lm	8.30 lm	4.25 lm	3.44 lm	3.18 lm	2.69 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