

Light efficiency:



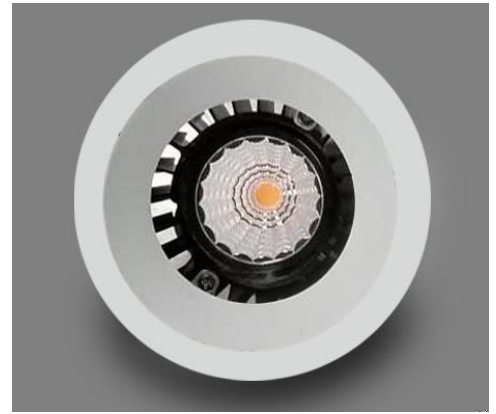
Output: 886 lm

Light quality:

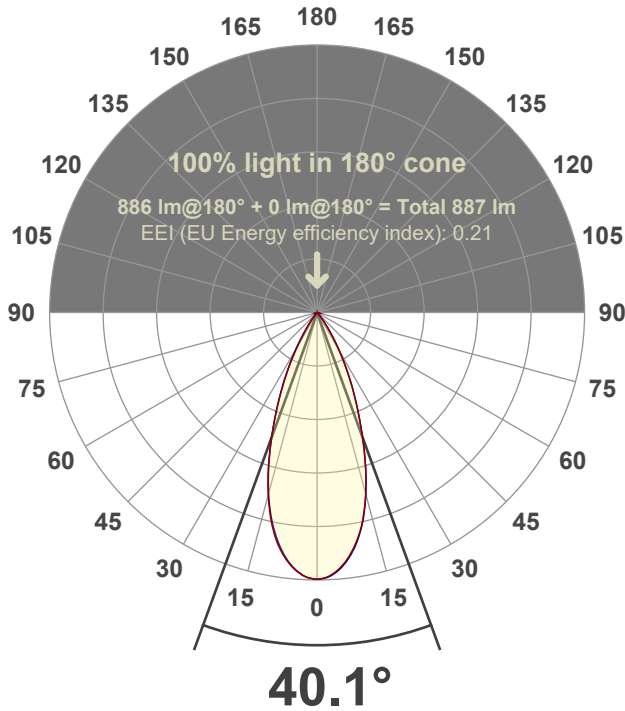


Peak: 1820 cd

Power: 14.6 W



Beam angle



Test number:

GR-O-F-A14-3019-FL-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3019 38° Optic-Solite

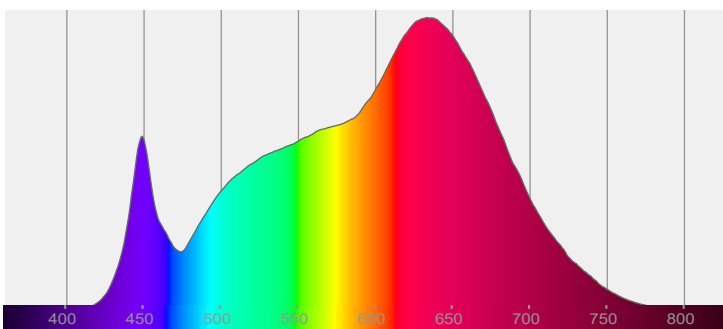
Date and time:

3/24/2022 9:45:29 PM

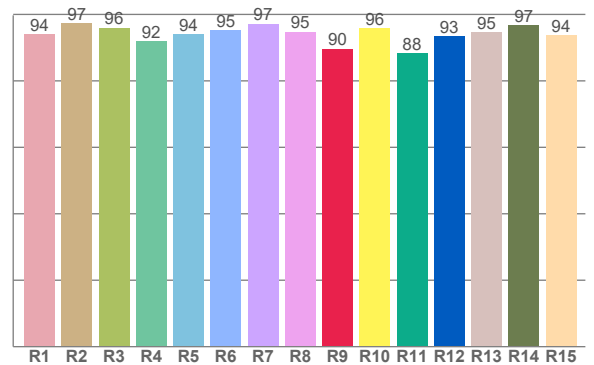
Delivered Lumens

886

Spectra



CRI: 95.0 (R1-R8)



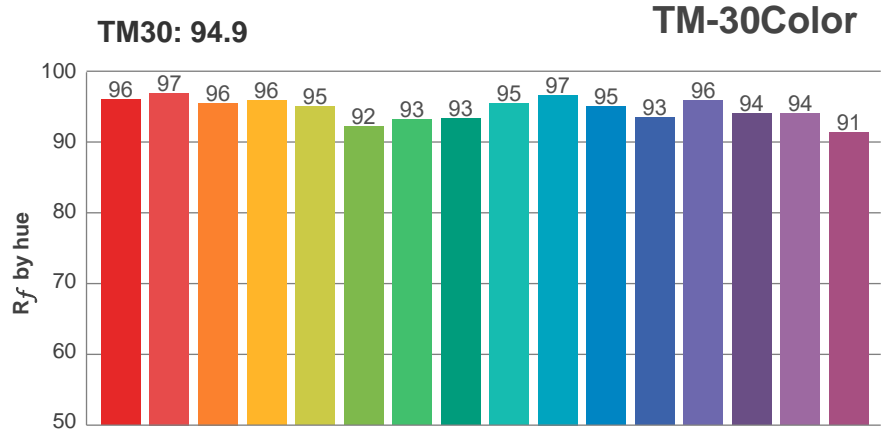
Color parameters

	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
	95.0	89.6	94.9	105.4	95.0	0.423	0.388	0.248	0.342	-0.0045

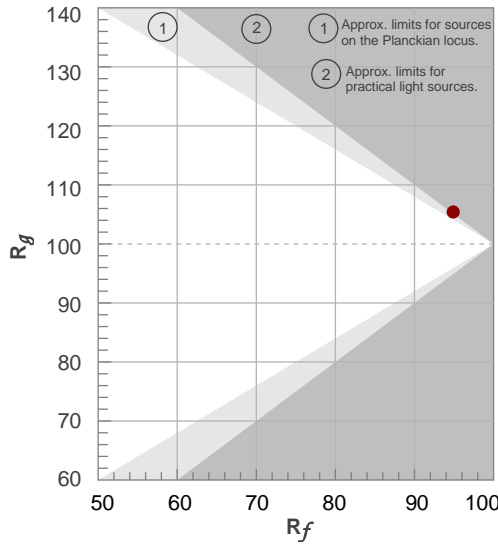
**$R_f$  94.9**  
Fidelity index  $R_f$

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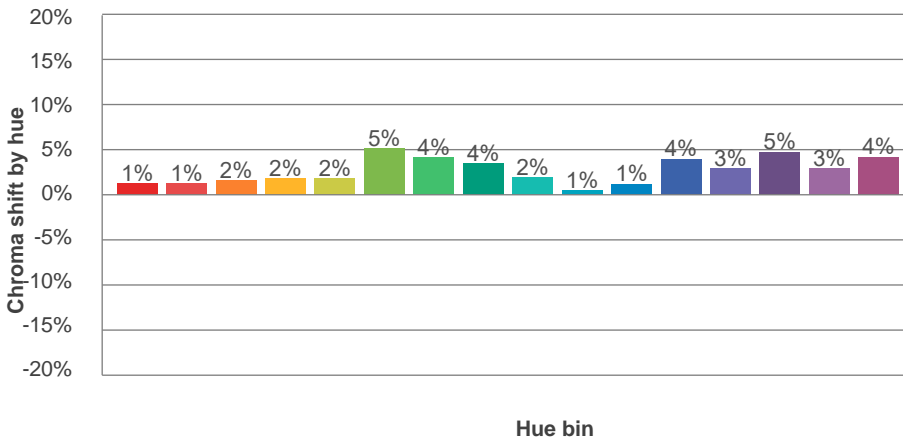
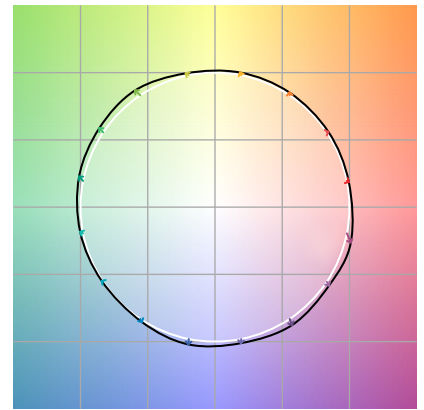
**$R_g$  105.4**  
Gammut index  $R_g$



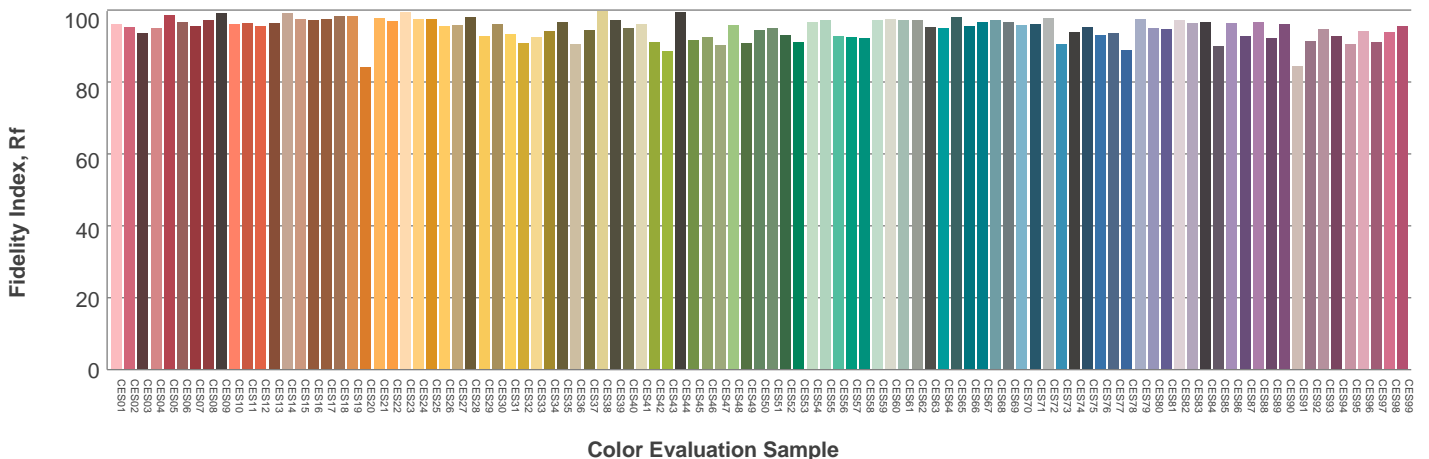
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	0%
3	96	2%	1%
4	96	2%	1%
5	95	2%	2%
6	92	5%	1%
7	93	4%	-1%
8	93	4%	-3%
9	95	2%	-2%
10	97	1%	-1%
11	95	1%	2%
12	93	4%	0%
13	96	3%	-1%
14	94	5%	-1%
15	94	3%	-1%
16	91	4%	-6%



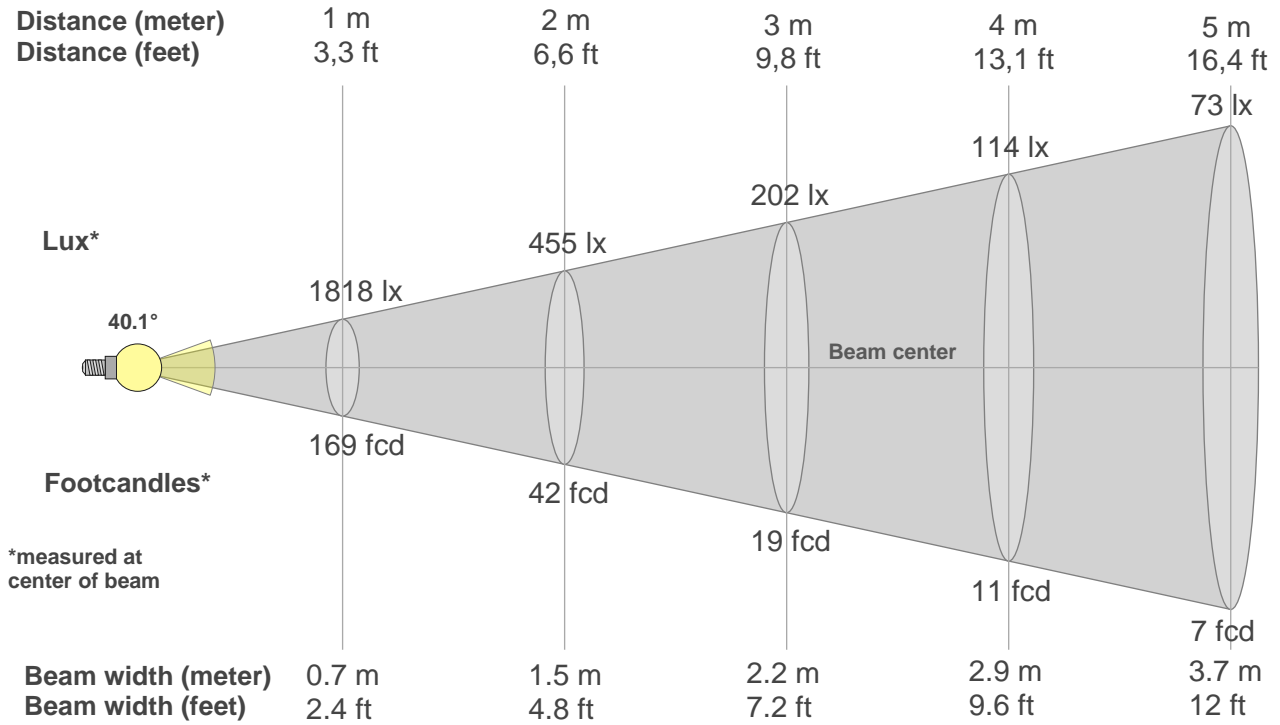
Color vector graphics



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
1818lx	455lx	202lx	114lx	73lx	51lx	37lx	28lx	22lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
168.9fcd	42.2fcd	18.8fcd	10.6fcd	6.8fcd	4.7fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

#### 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°
1818	1808	1774	1723	1656	1573	1474	1350	1212	1064	915	771	642	526	420	324	240	168	113	77
100%	99%	98%	95%	91%	86%	81%	74%	67%	59%	50%	42%	35%	29%	23%	18%	13%	9%	6%	4%

#### 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°
1818	1809	1779	1730	1664	1582	1479	1353	1213	1064	913	766	638	521	413	316	233	162	111	74
100%	99%	98%	95%	92%	87%	81%	74%	67%	59%	50%	42%	35%	29%	23%	17%	13%	9%	6%	4%

#### 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°
1818	1808	1779	1731	1668	1587	1480	1356	1218	1070	915	766	630	505	391	287	199	134	87	56
100%	99%	98%	95%	92%	87%	81%	75%	67%	59%	50%	42%	35%	28%	21%	16%	11%	7%	5%	3%

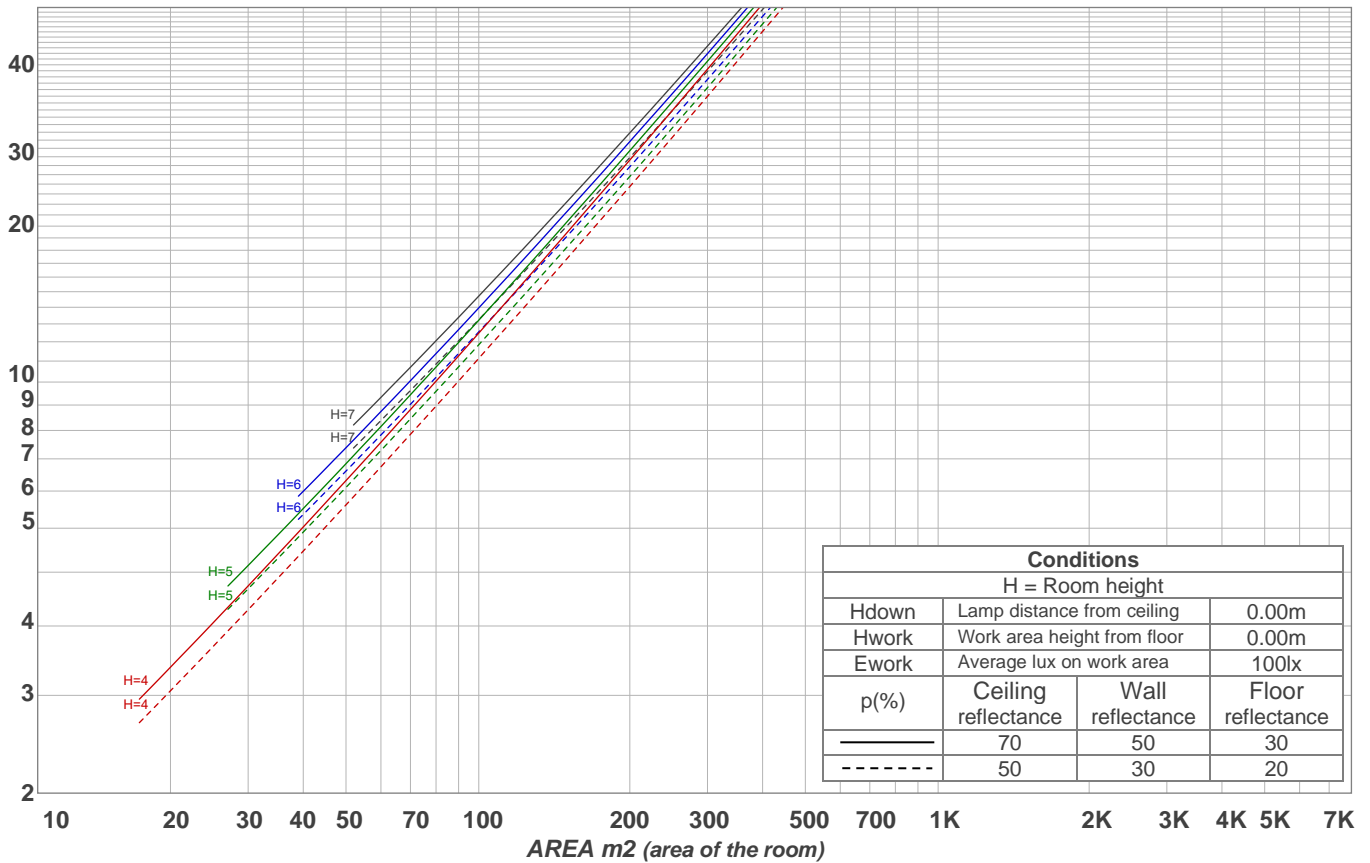
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1818	1808	1775	1725	1657	1571	1468	1347	1209	1062	913	767	635	514	404	305	217	144	96	62
100%	99%	98%	95%	91%	86%	81%	74%	67%	58%	50%	42%	35%	28%	22%	17%	12%	8%	5%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.1°	66.2°	79.4°	99.1%	98.1%

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95	95	95	
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	
5	97	89	84	81	95	88	84	80	87	83	80	85	82	79	84	81	78	77	77	77	
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73	73	73	
7	89	81	76	72	88	81	76	72	79	75	72	78	74	72	77	74	71	70	70	70	
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67	67	67	
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64	64	64	
10	79	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	61	61	61	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
162 lm	350 lm	263 lm	85.6 lm	13.4 lm	4.53 lm	3.12 lm	2.76 lm	2.34 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