

Light efficiency:



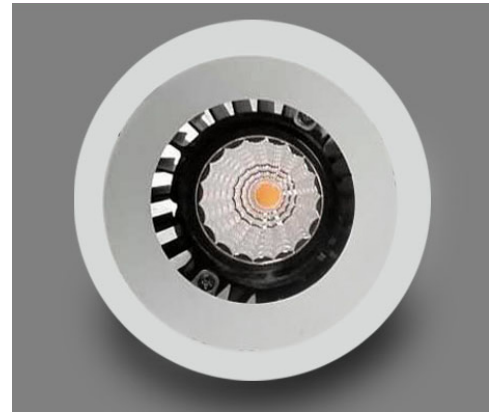
Output: 879 lm

Light quality:

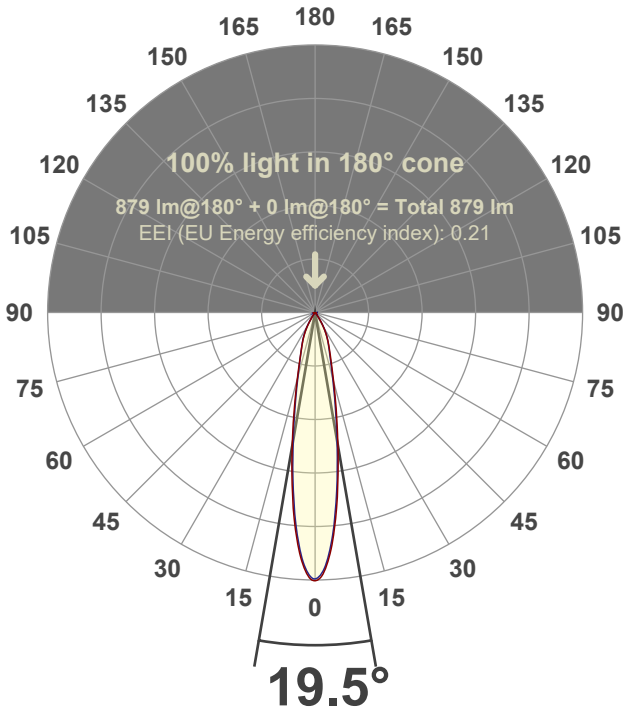


Peak: 4102 cd

Power: 14.6 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3019 15° Optic-Solite

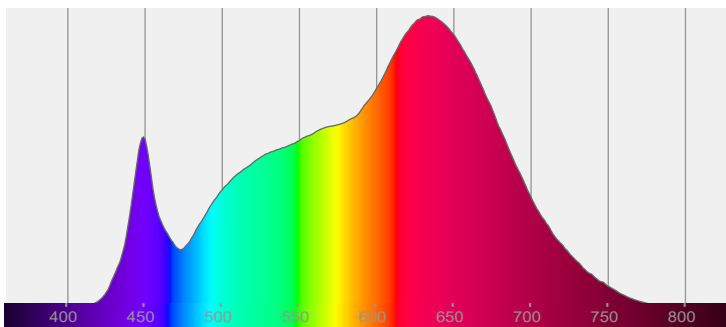
Date and time:

3/24/2022 8:06:10 PM

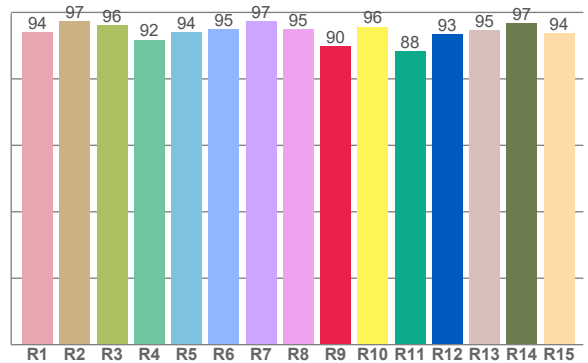
Delivered Lumens

879

Spectra



CRI: 95.0 (R1-R8)



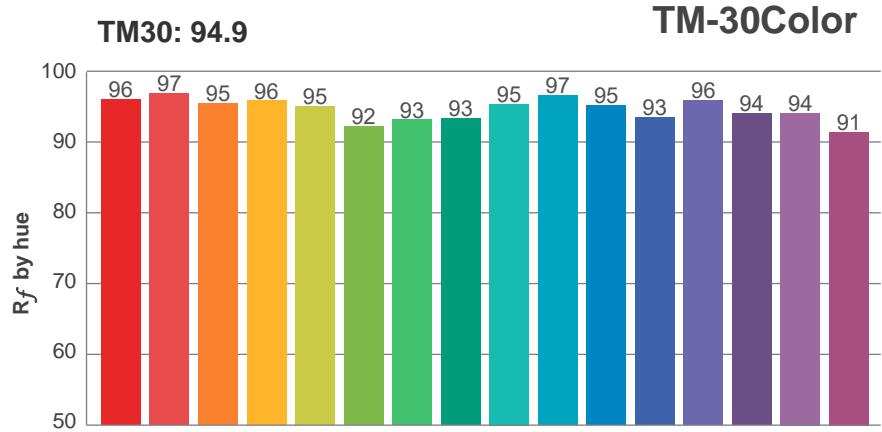
Color parameters

	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	89.7	94.9	105.4	95.0	0.424	0.388	0.249	0.342	-0.0046

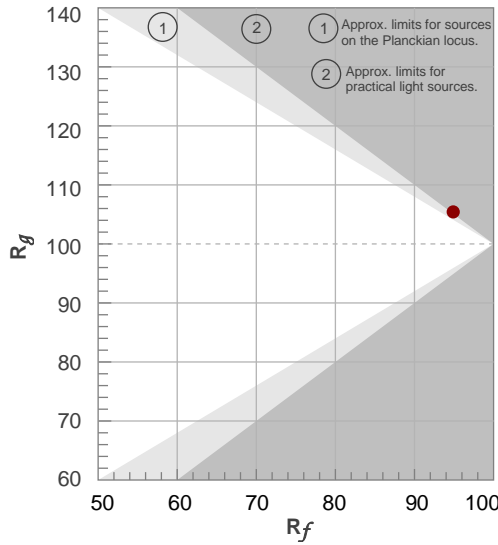
**$R_f$  94.9**  
Fidelity index  $R_f$

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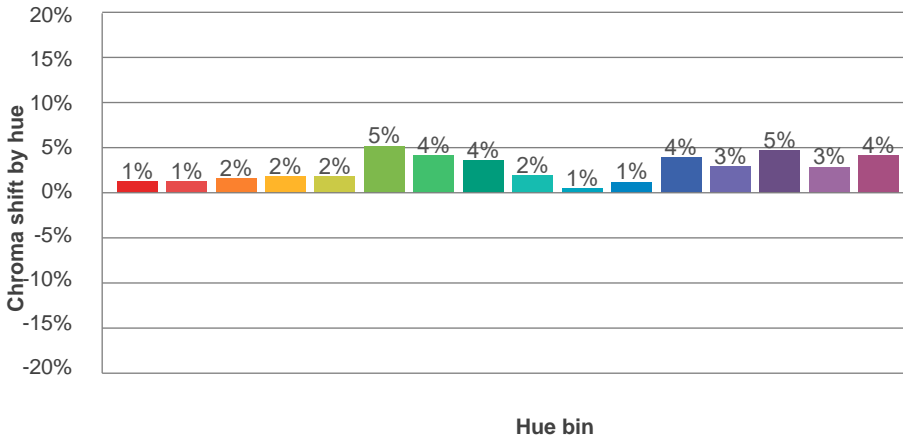
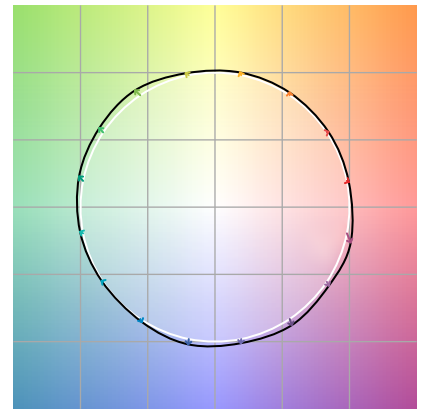
**$R_g$  105.4**  
Gammut index  $R_g$



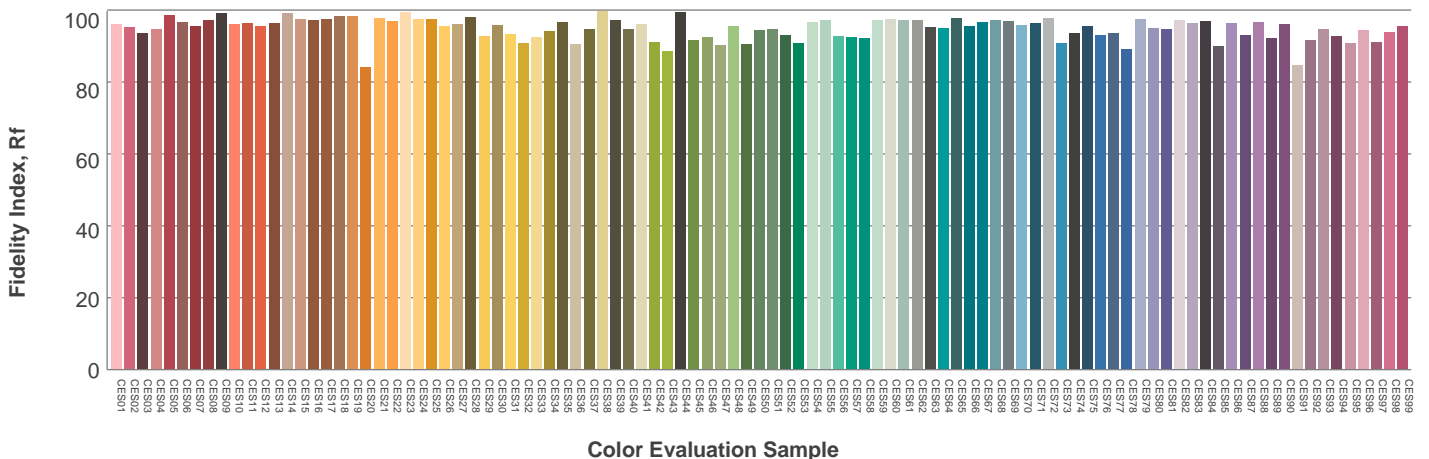
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	0%
3	95	2%	1%
4	96	2%	1%
5	95	2%	2%
6	92	5%	1%
7	93	4%	-1%
8	93	4%	-3%
9	95	2%	-2%
10	97	1%	-1%
11	95	1%	2%
12	93	4%	0%
13	96	3%	-1%
14	94	5%	-1%
15	94	3%	-1%
16	91	4%	-6%



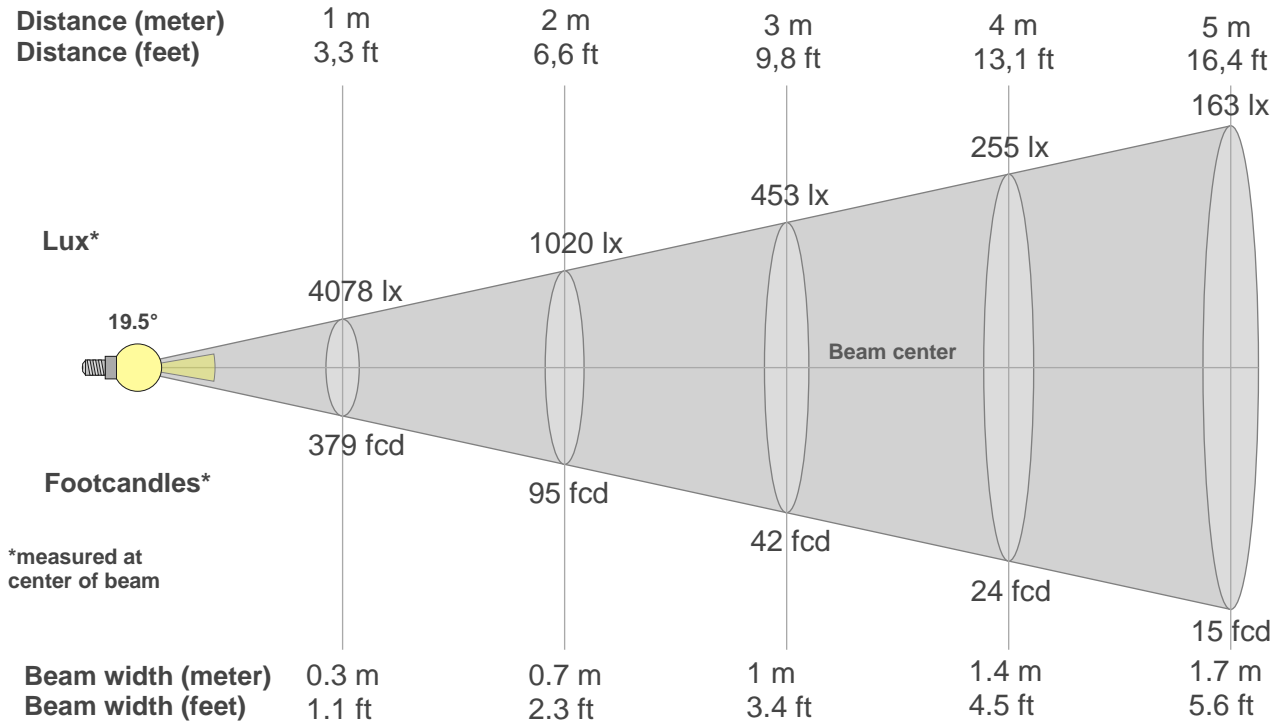
Color vector graphics



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
4078lx	1020lx	453lx	255lx	163lx	113lx	83lx	64lx	50lx	41lx	34lx	28lx	24lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx
378.9fcd	94.7fcd	42.1fcd	23.7fcd	15.2fcd	10.5fcd	7.7fcd	5.9fcd	4.7fcd	3.8fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd

#### 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°
4078	3964	3616	3099	2547	2035	1599	1254	992	814	684	583	498	422	348	276	211	153	105	70
100%	97%	89%	76%	62%	50%	39%	31%	24%	20%	17%	14%	12%	10%	9%	7%	5%	4%	3%	2%

#### 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°
4078	3944	3541	3020	2467	1952	1516	1185	949	778	654	562	485	416	346	275	208	146	95	62
100%	97%	87%	74%	60%	48%	37%	29%	23%	19%	16%	14%	12%	10%	8%	7%	5%	4%	2%	2%

#### 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°
4078	3960	3623	3134	2564	2034	1583	1224	955	766	639	544	463	388	316	244	180	126	86	57
100%	97%	89%	77%	63%	50%	39%	30%	23%	19%	16%	13%	11%	10%	8%	6%	4%	3%	2%	1%

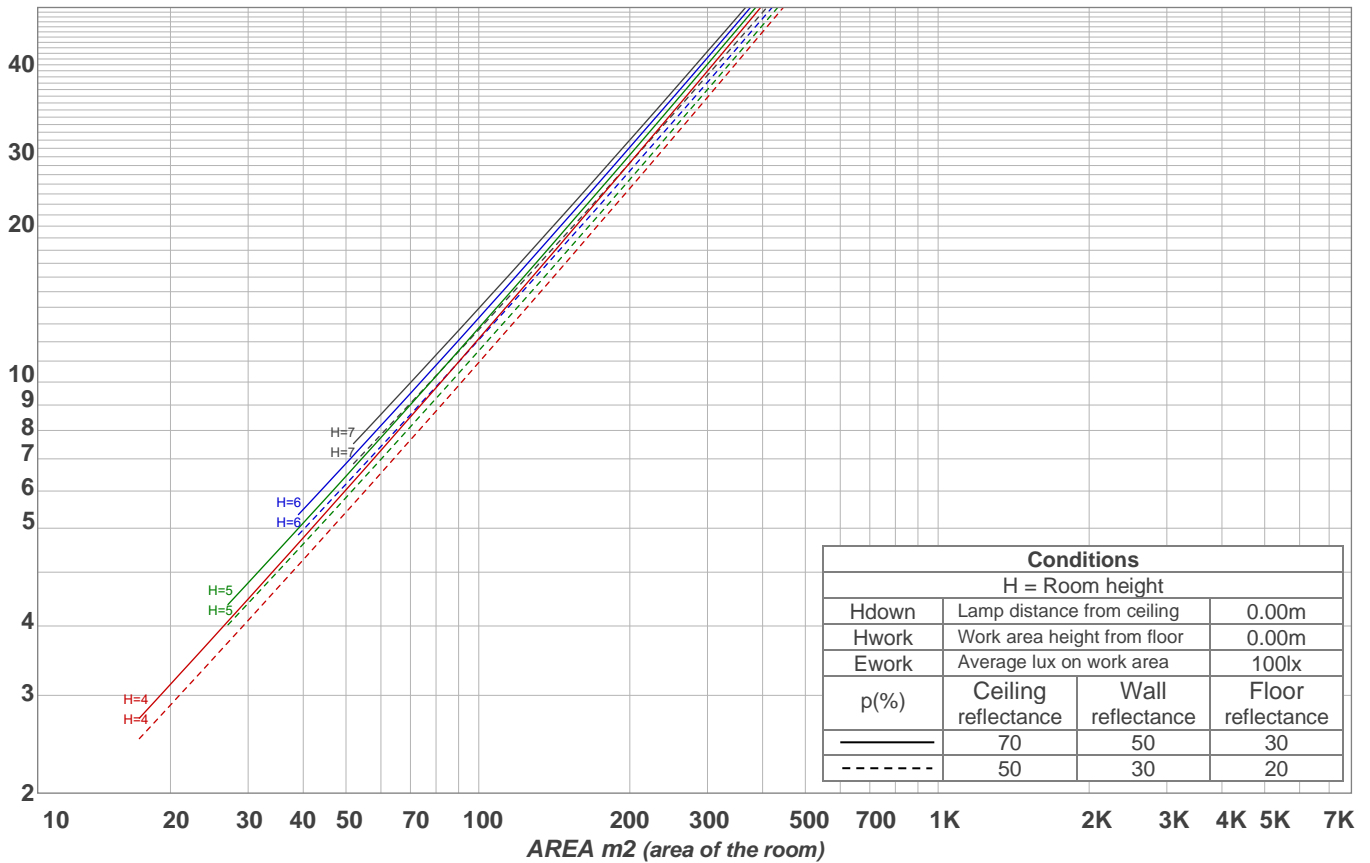
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4078	3921	3552	3043	2475	1932	1501	1171	927	753	630	540	468	396	323	249	177	117	77	49
100%	96%	87%	75%	61%	47%	37%	29%	23%	18%	15%	13%	11%	10%	8%	6%	4%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.5°	51.8°	70.7°	99.1%	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	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84	84	84	
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78	78	78	
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75	75	75	
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70	70	70	
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68	68	68	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
273 lm	306 lm	201 lm	75.2 lm	12.1 lm	3.62 lm	2.75 lm	2.74 lm	2.58 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