

Light efficiency:



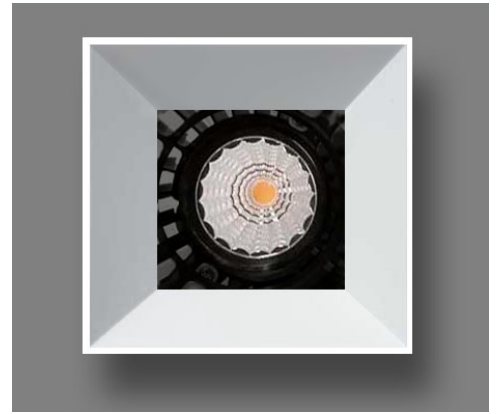
Output: 852 lm

Light quality:

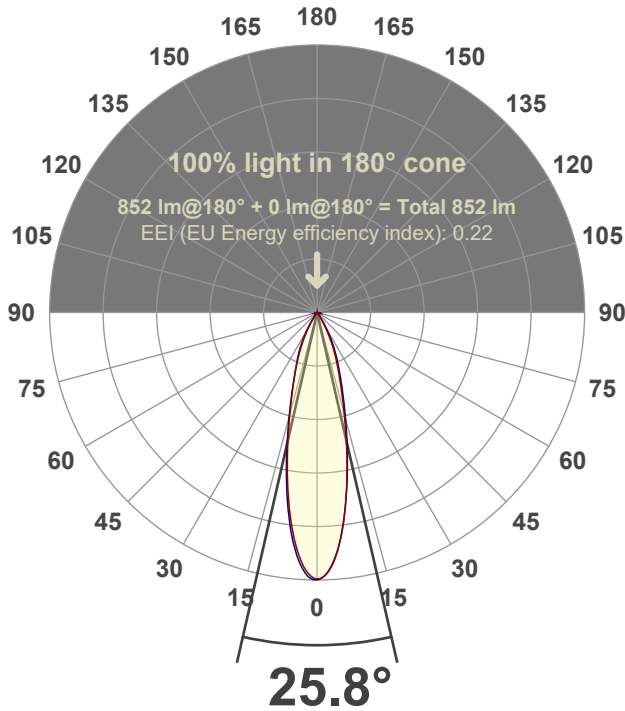


Peak: 3015 cd

Power: 14.7 W



Beam angle



Test number:

GR-O-F-A14-3019-NF-SQ-91A-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-A14-3019 24° Optic-Solite

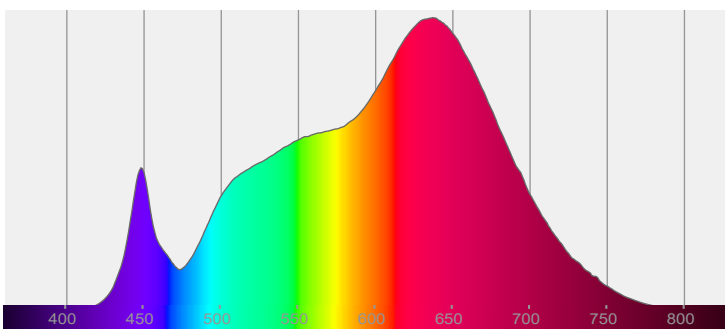
Date and time:

6/30/2022 12:16:48 PM

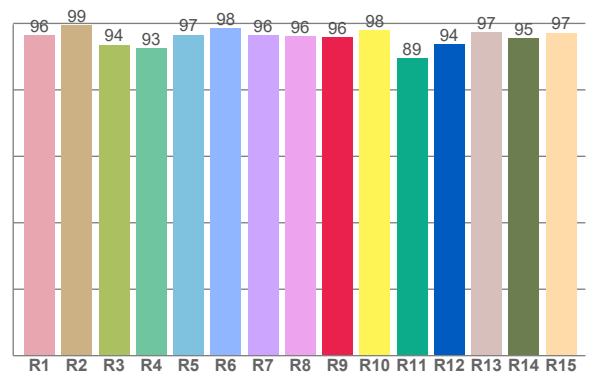
Delivered Lumens

852

Spectra



CRI: 96.2 (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
	96.2	95.8	95.2	104.3	94.8	0.436	0.403	0.251	0.347	-0.0005

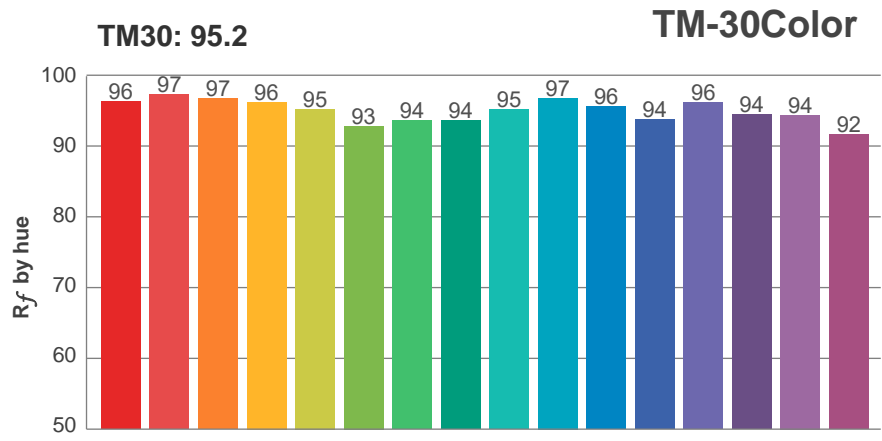
# $R_f$ 95.2

Fidelity index  $R_f$

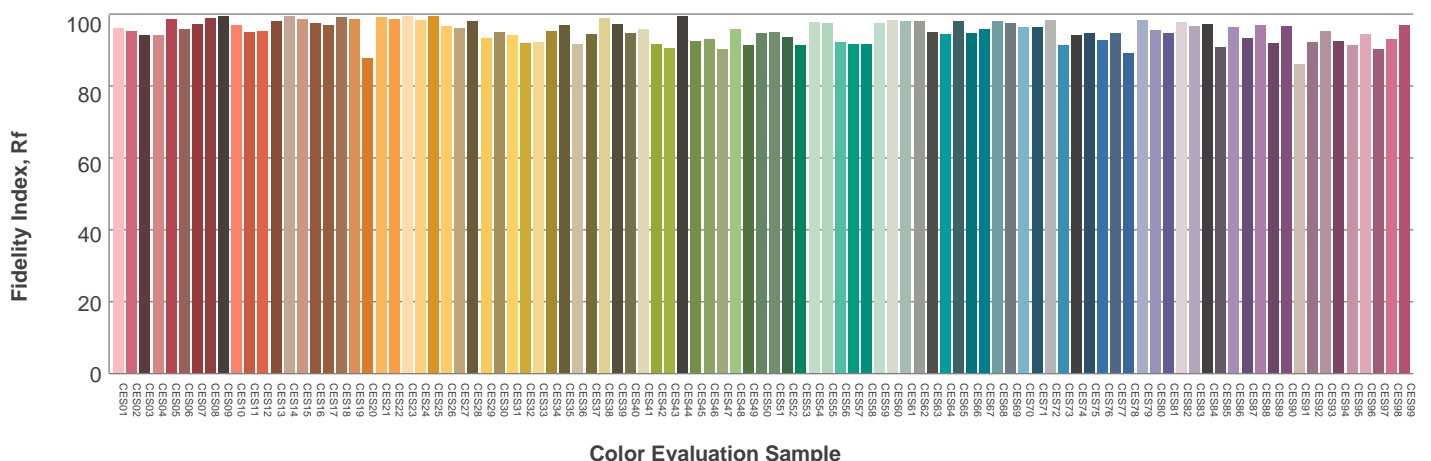
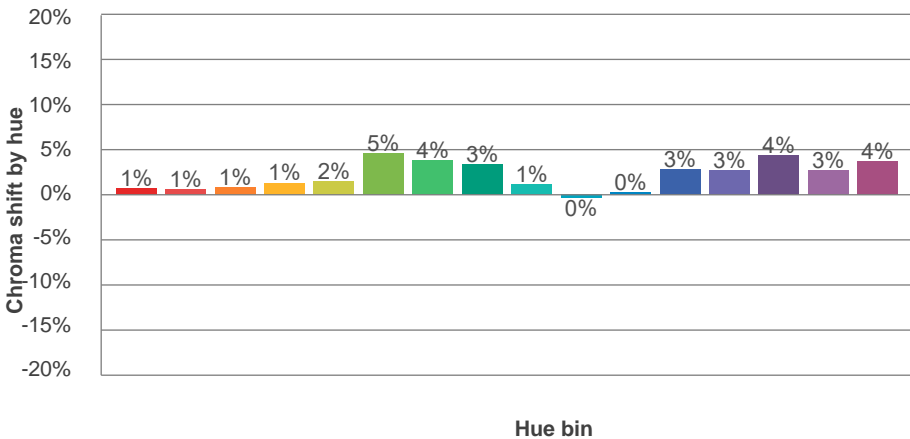
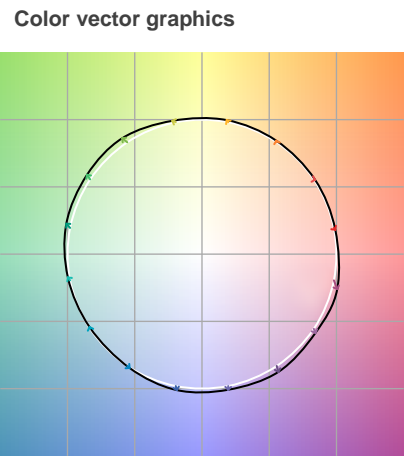
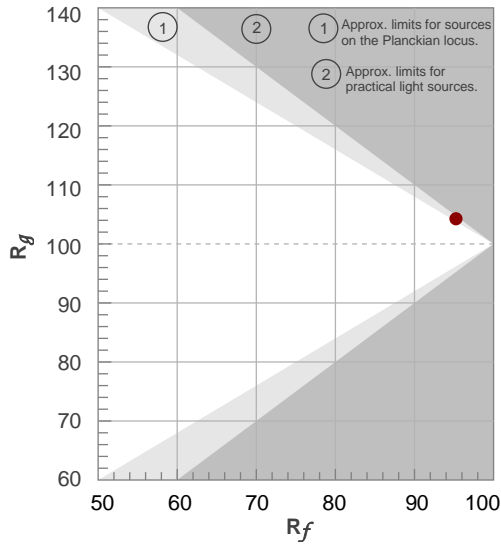
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# $R_g$ 104.3

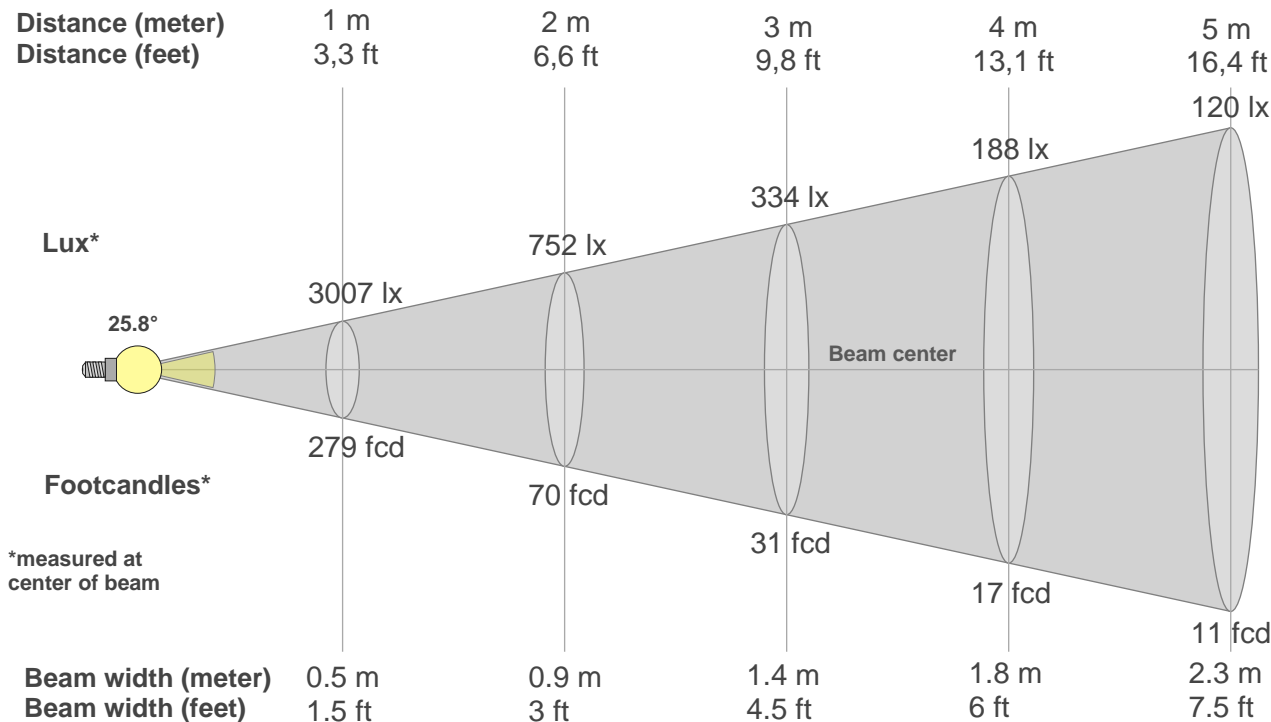
Gammut index  $R_g$



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



### 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
3007lx	752lx	334lx	188lx	120lx	84lx	61lx	47lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	8lx
279.3fcd	69.8fcd	31fcd	17.5fcd	11.2fcd	7.8fcd	5.7fcd	4.4fcd	3.4fcd	2.8fcd	2.3fcd	1.9fcd	1.7fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

#### 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°
3007	2963	2799	2558	2262	1941	1622	1321	1075	876	716	585	470	359	258	174	110	65	37	23
100%	99%	93%	85%	75%	65%	54%	44%	36%	29%	24%	19%	16%	12%	9%	6%	4%	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°
3007	2941	2784	2551	2261	1952	1656	1381	1140	938	773	641	533	430	332	243	166	106	70	45
100%	98%	93%	85%	75%	65%	55%	46%	38%	31%	26%	21%	18%	14%	11%	8%	6%	4%	2%	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°
3007	2934	2772	2536	2249	1931	1618	1337	1094	896	742	624	530	439	348	259	179	113	68	39
100%	98%	92%	84%	75%	64%	54%	44%	36%	30%	25%	21%	18%	15%	12%	9%	6%	4%	2%	1%

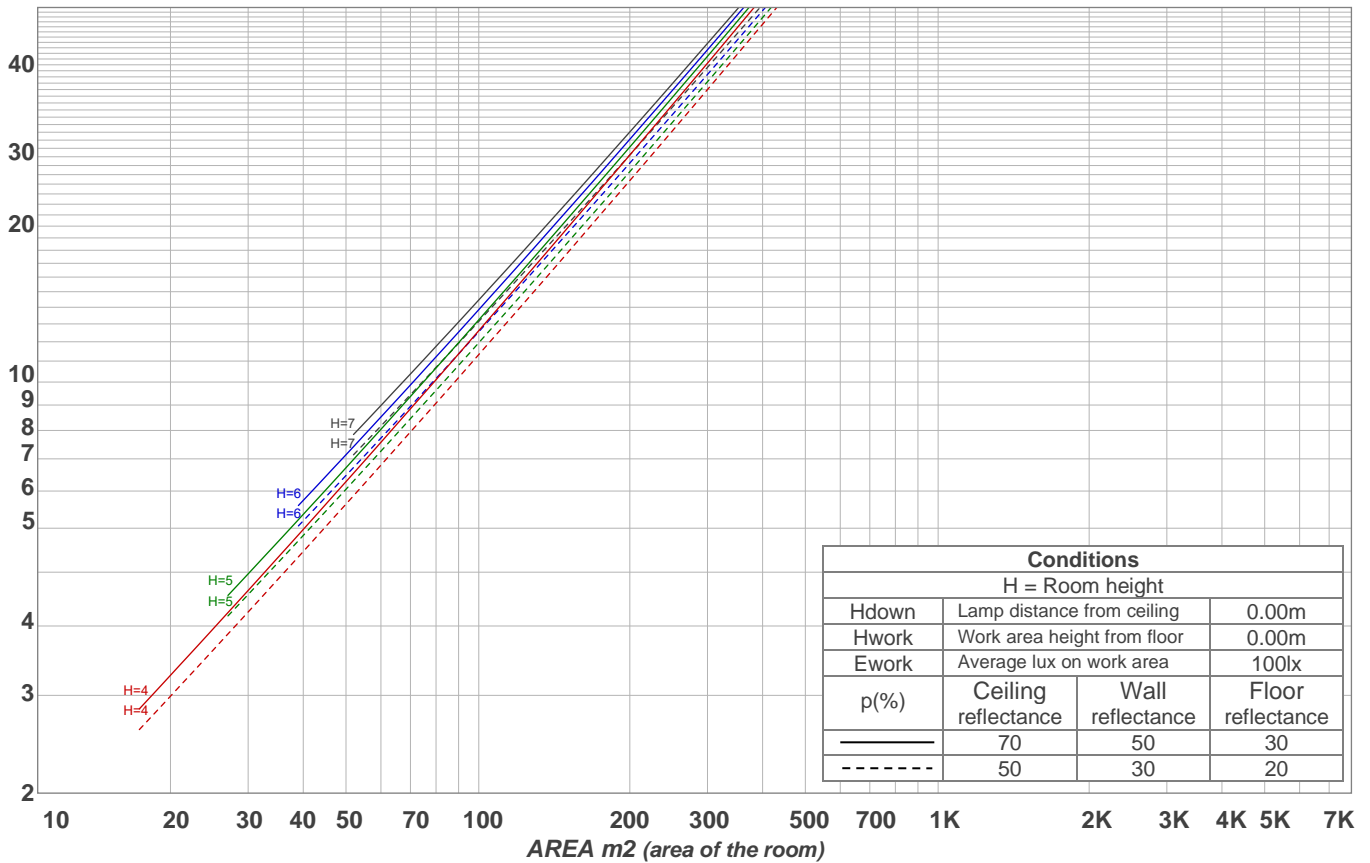
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3007	2980	2832	2598	2308	1990	1670	1367	1109	906	741	603	485	379	282	201	136	90	58	36
100%	99%	94%	86%	77%	66%	56%	45%	37%	30%	25%	20%	16%	13%	9%	7%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.8°	56.2°	69.7°	98.9%	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		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91		
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87	87		
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84		
5	99	92	87	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80	80		
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	77		
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74	74		
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72		
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69	69		
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67	67		

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
233 lm	340 lm	205 lm	53.5 lm	7.74 lm	3.92 lm	3.49 lm	3.18 lm	2.72 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