

Light efficiency:



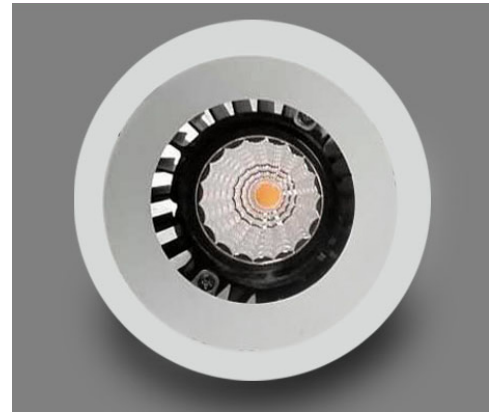
Output: 983 lm

Light quality:

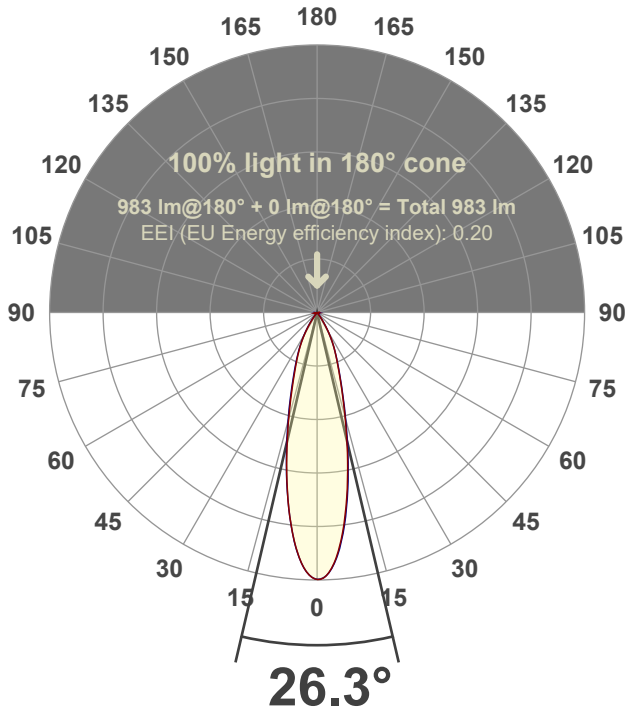


Peak: 3250 cd

Power: 15.1 W



Beam angle



Test number:

GR-O-F-A14-3022-NF-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3022 24° Optic-Solite

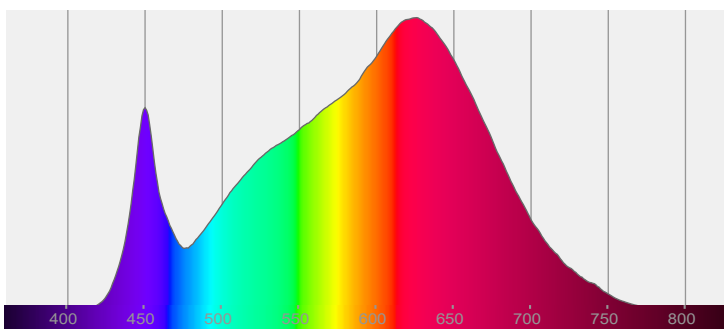
Date and time:

3/24/2022 4:49:42 PM

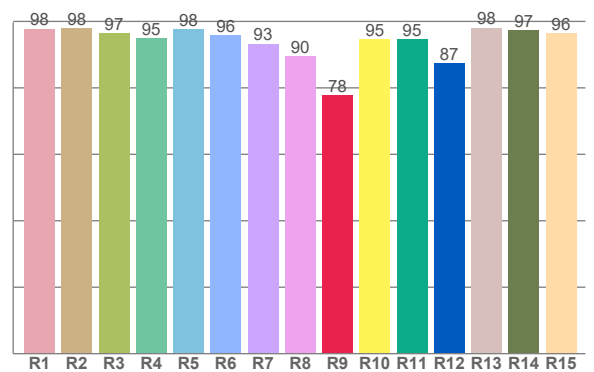
Delivered Lumens

983

Spectra



CRI: 95.4 (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
	95.4	77.8	91.7	103.9	90.7	0.423	0.384	0.250	0.341	-0.0061

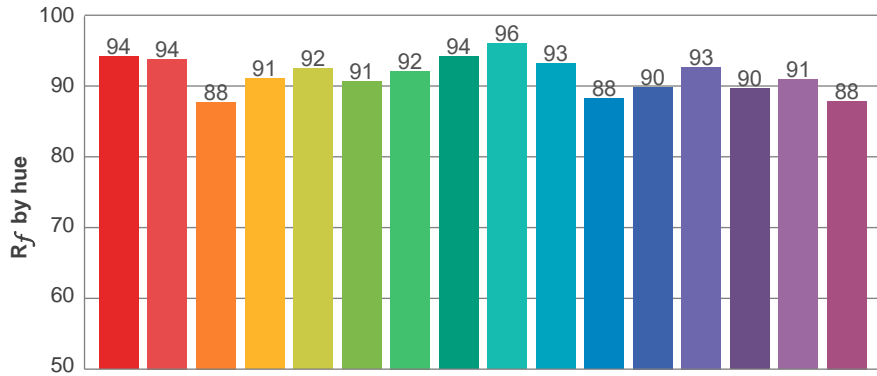
**$R_f$  91.7**  
Fidelity index  $R_f$

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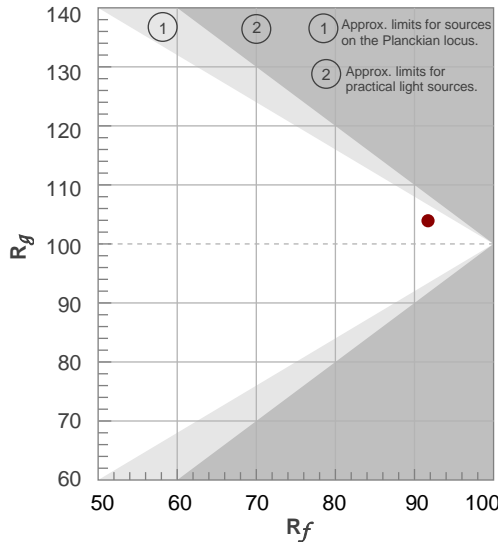
**$R_g$  103.9**  
Gammut index  $R_g$

TM30: 91.7

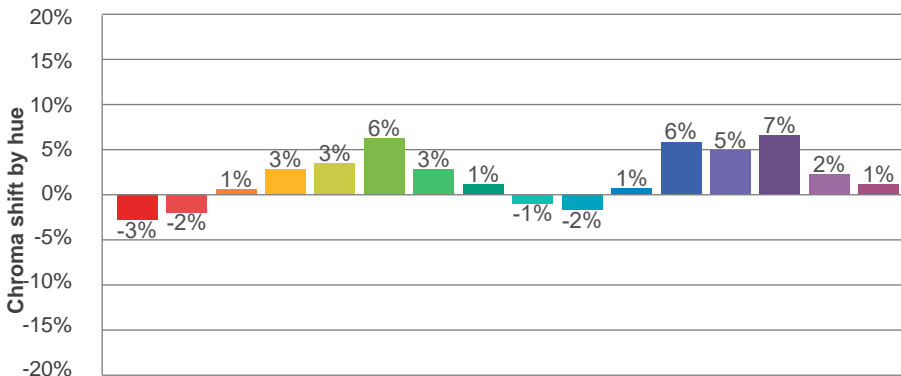
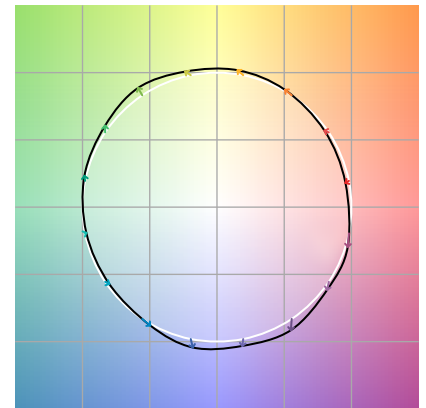
TM-30Color



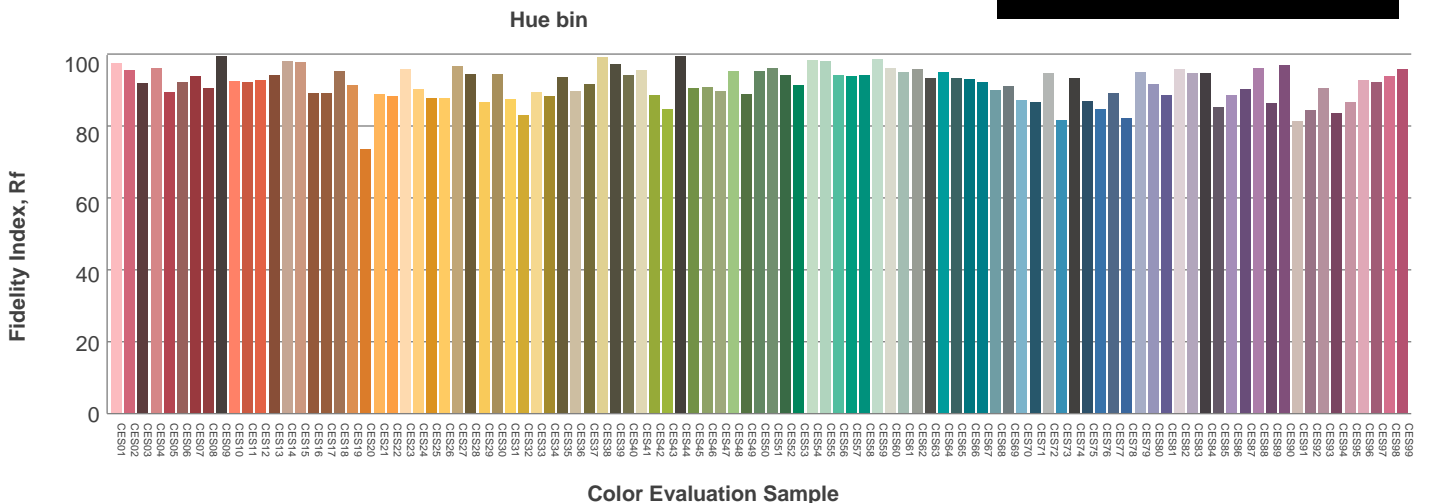
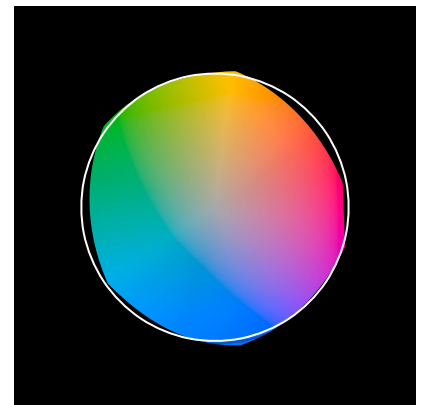
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	92	3%	3%
6	91	6%	0%
7	92	3%	-4%
8	94	1%	-4%
9	96	-1%	0%
10	93	-2%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	7%	-5%
15	91	2%	-6%
16	88	1%	-10%



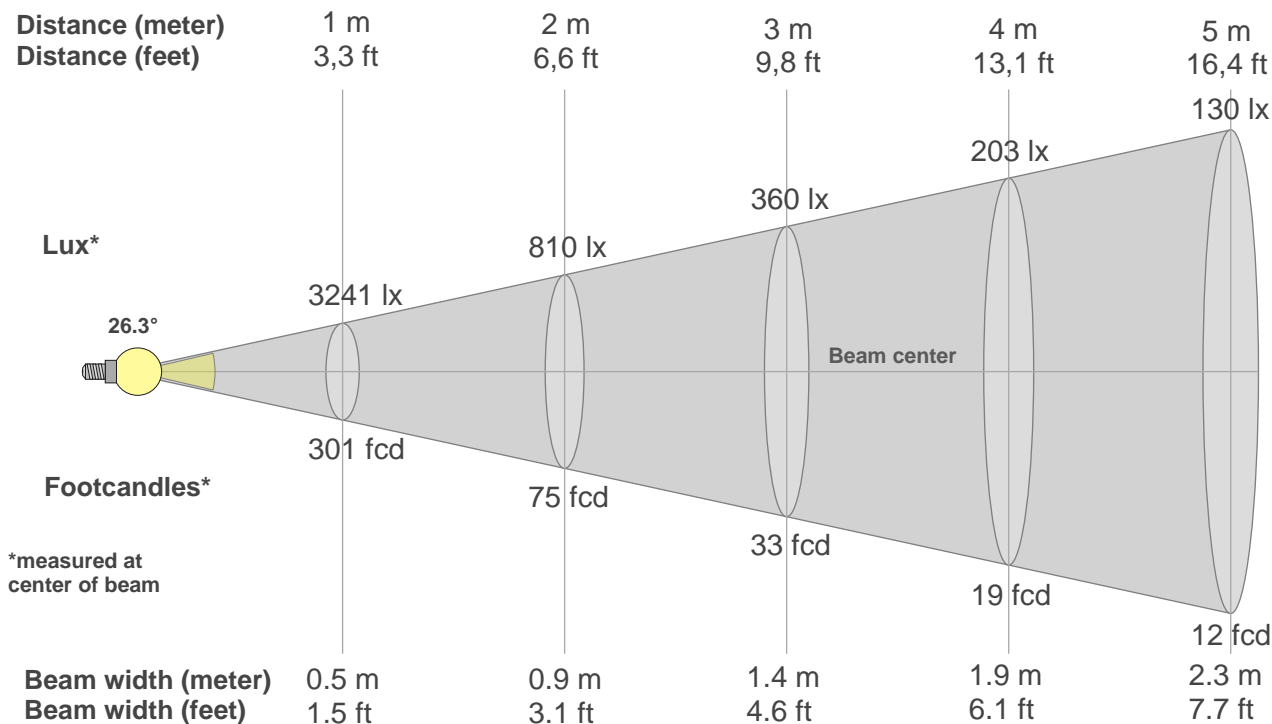
Color vector graphics



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
3241lx	810lx	360lx	203lx	130lx	90lx	66lx	51lx	40lx	32lx	27lx	23lx	19lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx
301.1fcd	75.3fcd	33.5fcd	18.8fcd	12fcd	8.4fcd	6.1fcd	4.7fcd	3.7fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	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°
3241	3200	3045	2784	2471	2133	1791	1469	1200	979	804	666	561	472	383	296	216	146	97	63
100%	99%	94%	86%	76%	66%	55%	45%	37%	30%	25%	21%	17%	15%	12%	9%	7%	5%	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°
3241	3199	3043	2804	2502	2164	1822	1504	1226	995	814	677	565	465	374	288	209	145	99	66
100%	99%	94%	87%	77%	67%	56%	46%	38%	31%	25%	21%	17%	14%	12%	9%	6%	4%	3%	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°
3241	3166	3003	2756	2449	2118	1791	1487	1221	1004	835	701	592	496	408	321	239	167	108	67
100%	98%	93%	85%	76%	65%	55%	46%	38%	31%	26%	22%	18%	15%	13%	10%	7%	5%	3%	2%

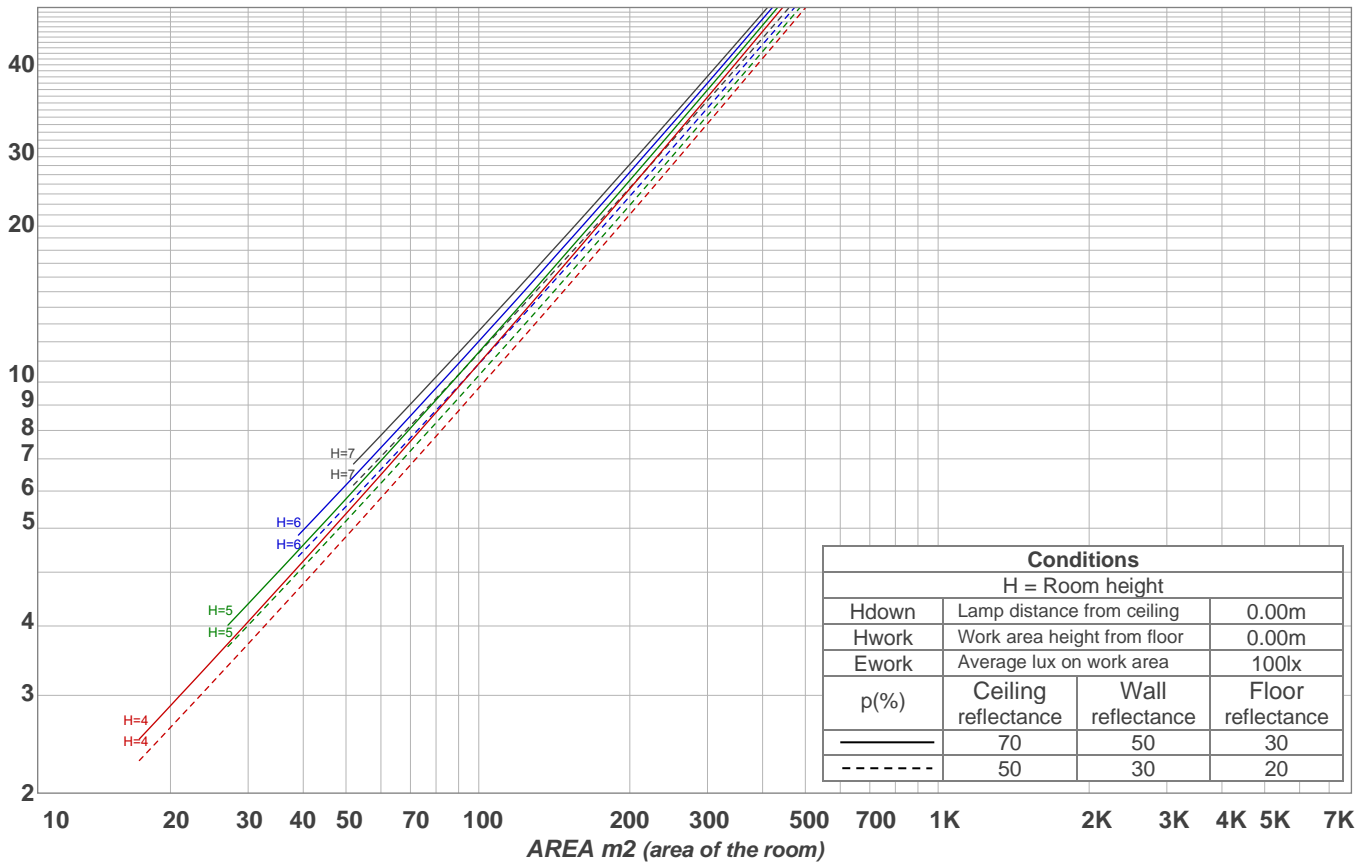
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3241	3170	3000	2753	2450	2125	1808	1517	1258	1037	858	724	610	509	417	330	253	184	127	84
100%	98%	93%	85%	76%	66%	56%	47%	39%	32%	26%	22%	19%	16%	13%	10%	8%	6%	4%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26.3°	59.3°	74.6°	99.4%	98.7%

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

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
252 lm	375 lm	244 lm	88.9 lm	13.5 lm	3.14 lm	2.11 lm	2.02 lm	2.17 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