

Light efficiency:



Output: 1081 lm

Light quality:

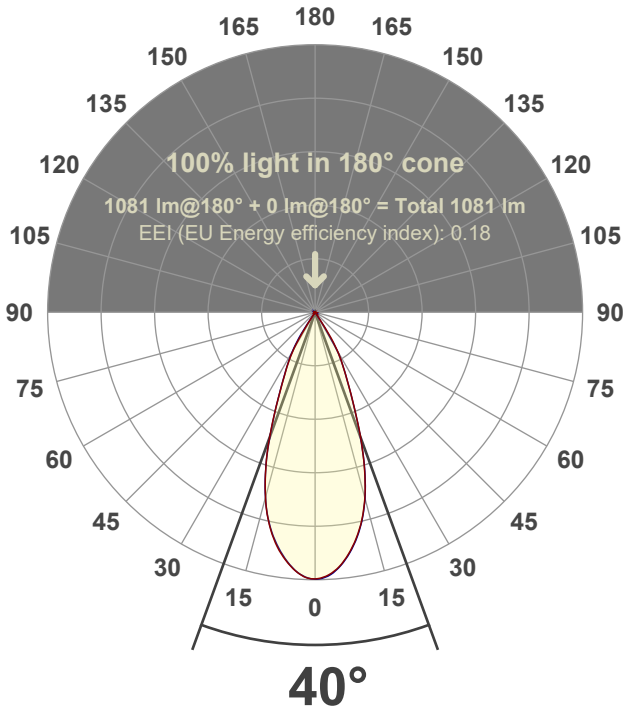


Peak: 2368 cd

Power: 15.0 W



Beam angle



Test number:

GR-O-F-A14-3022-FL-RD-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3022 38° Optic-No Solite

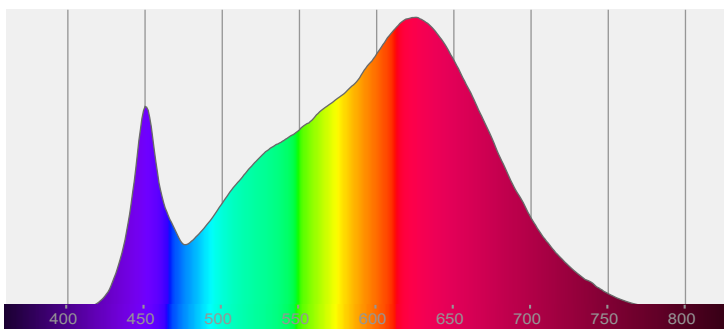
Date and time:

3/24/2022 5:15:31 PM

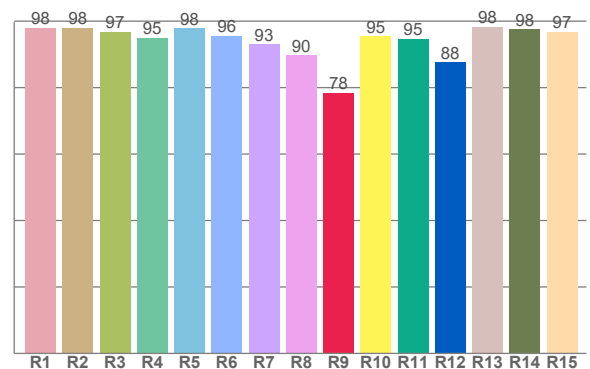
Delivered Lumens

1081

Spectra



CRI: 95.5 (R1-R8)



Color parameters

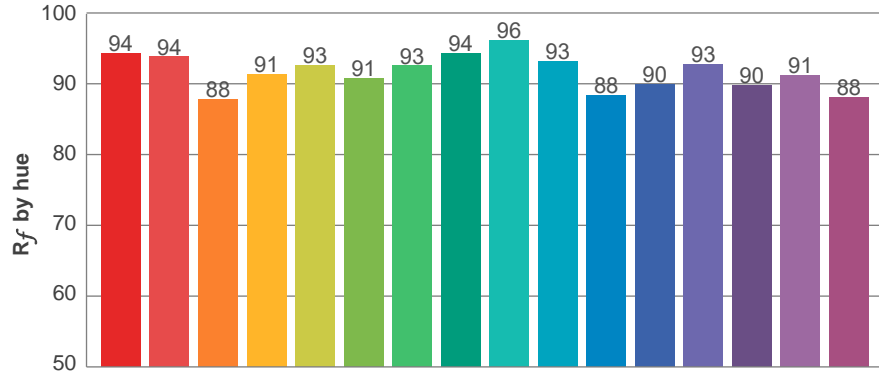
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
95.5	78.5	91.8	103.9	90.8	0.421	0.382	0.250	0.340	-0.0067

R_f 91.8
Fidelity index R_f

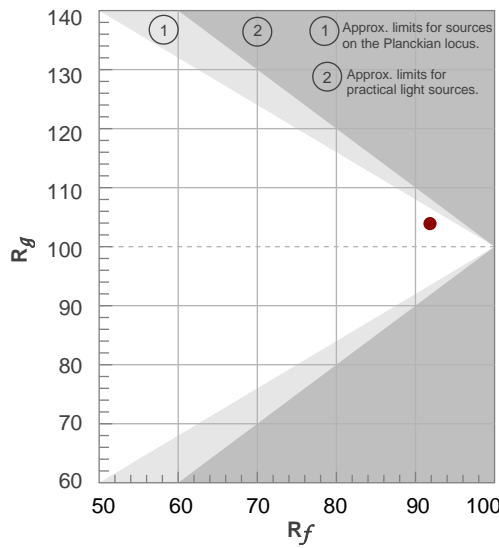
R_g 103.9
Gammut index R_g

TM30: 91.8

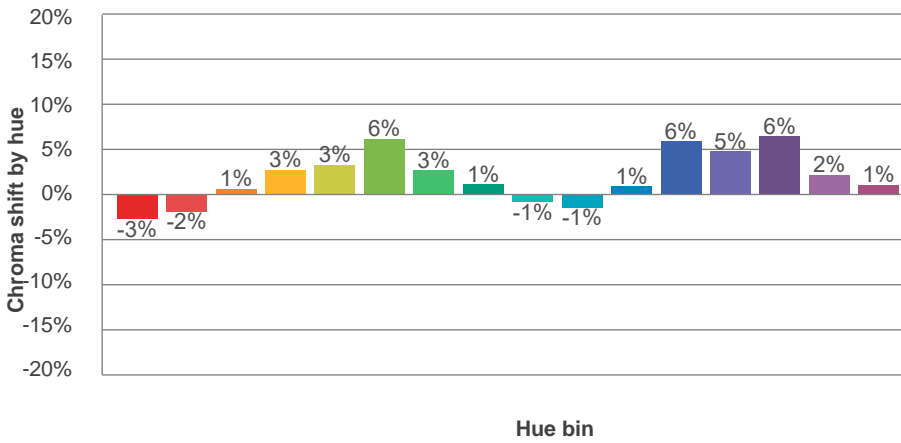
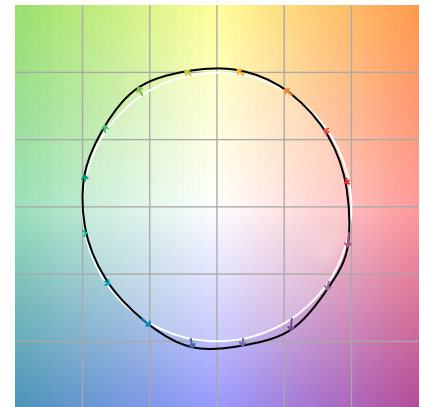
TM-30Color



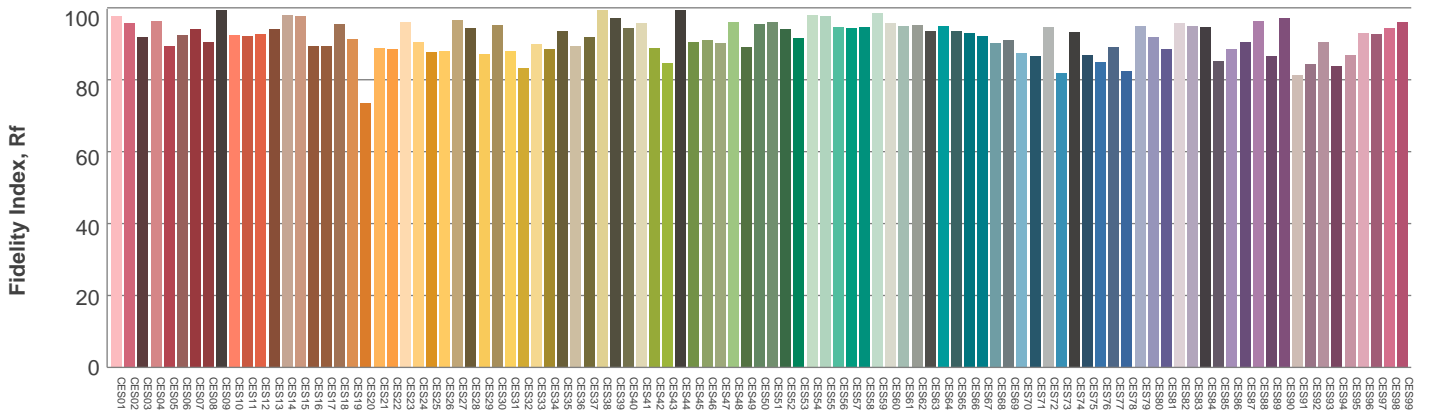
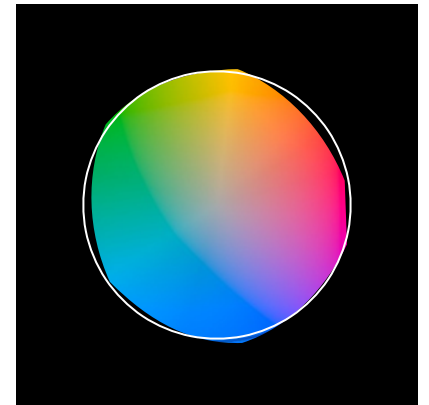
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-1%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-5%
16	88	1%	-10%



Color vector graphics

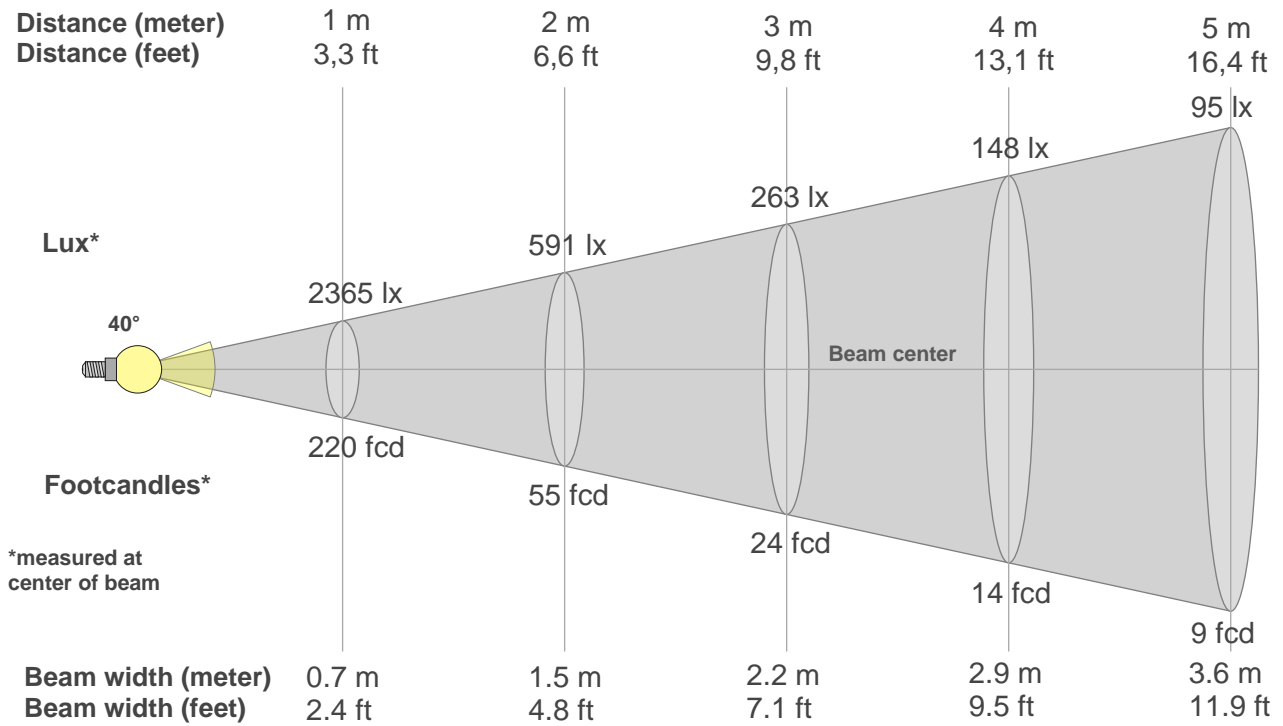


Color distortion



Color Evaluation Sample

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
2365lx	591lx	263lx	148lx	95lx	66lx	48lx	37lx	29lx	24lx	20lx	16lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
219.7fcd	54.9fcd	24.4fcd	13.7fcd	8.8fcd	6.1fcd	4.5fcd	3.4fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd

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°
2365	2348	2308	2246	2162	2058	1935	1788	1613	1410	1190	966	781	634	515	410	282	131	40	6
100%	99%	98%	95%	91%	87%	82%	76%	68%	60%	50%	41%	33%	27%	22%	17%	12%	6%	2%	0%

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°
2365	2354	2316	2253	2167	2063	1940	1793	1619	1415	1181	961	775	628	509	393	211	76	13	6
100%	100%	98%	95%	92%	87%	82%	76%	68%	60%	50%	41%	33%	27%	22%	17%	9%	3%	1%	0%

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°
2365	2356	2312	2246	2163	2063	1940	1794	1610	1409	1190	967	769	624	514	395	248	96	10	5
100%	100%	98%	95%	91%	87%	82%	76%	68%	60%	50%	41%	32%	26%	22%	17%	10%	4%	0%	0%

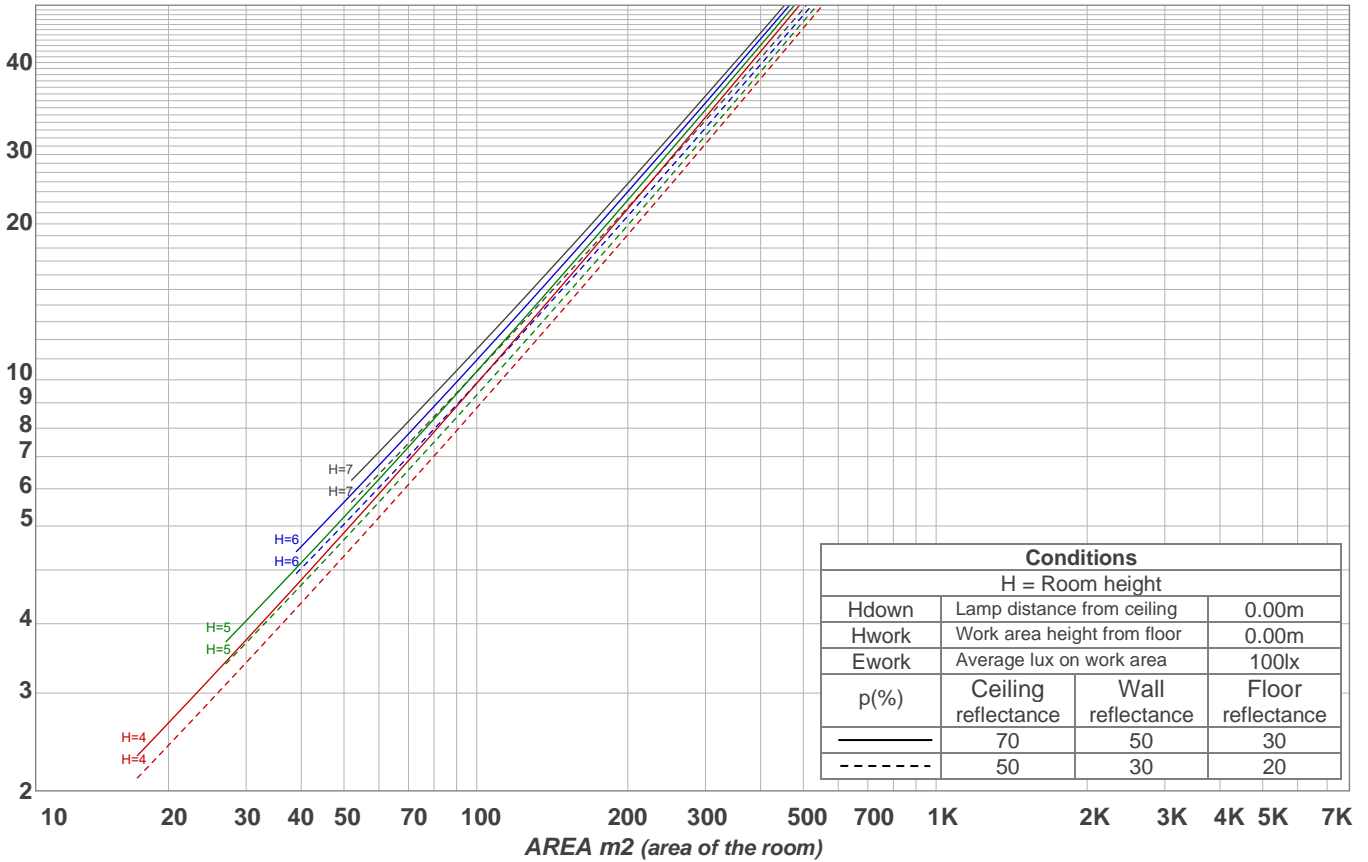
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2365	2351	2311	2241	2155	2053	1933	1789	1614	1408	1181	962	775	627	519	416	300	163	36	6
100%	99%	98%	95%	91%	87%	82%	76%	68%	60%	50%	41%	33%	27%	22%	18%	13%	7%	2%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40°	64.7°	69.9°	99.3%	99.0%

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	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87	87	87	
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	
5	98	91	86	83	96	90	86	82	88	84	82	87	83	81	85	82	80	79	79	79	
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76	76	76	
7	91	83	78	75	90	82	78	75	81	77	74	80	77	74	79	76	73	72	72	72	
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69	69	69	
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	
10	81	73	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64	64	64	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
211 lm	462 lm	328 lm	69.1 lm	2.08 lm	2.08 lm	2.05 lm	2.45 lm	2.76 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

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