

Light efficiency:



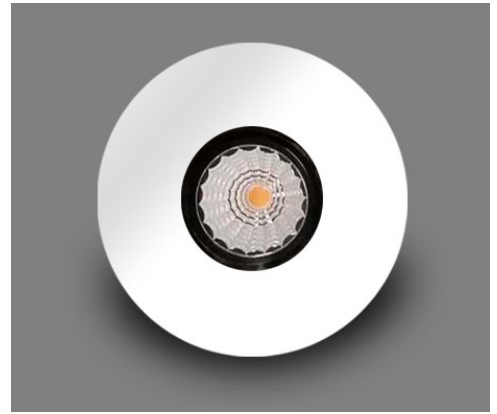
Output: 1042 lm

Light quality:

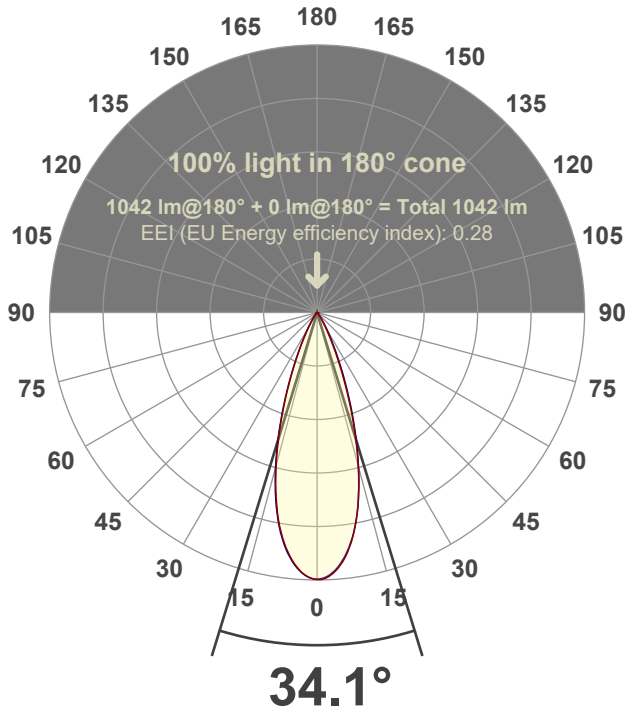


Peak: 2827 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-FL-RD-91A-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A20-3019 38° Optic-Solite

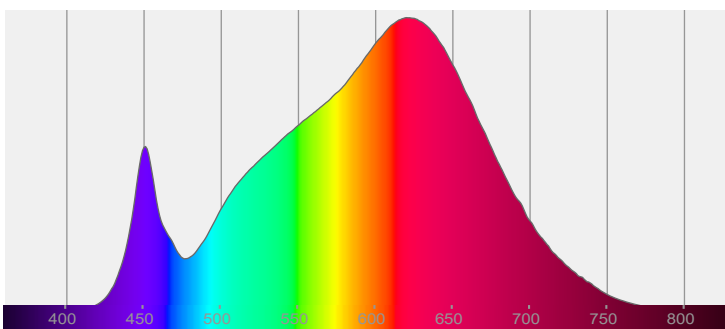
Date and time:

4/28/2022 8:07:57 PM

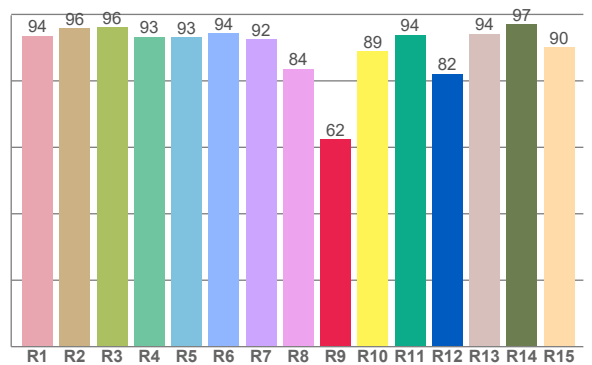
Delivered Lumens

1042

Spectra



CRI: 92.8 (R1-R8)



Color parameters

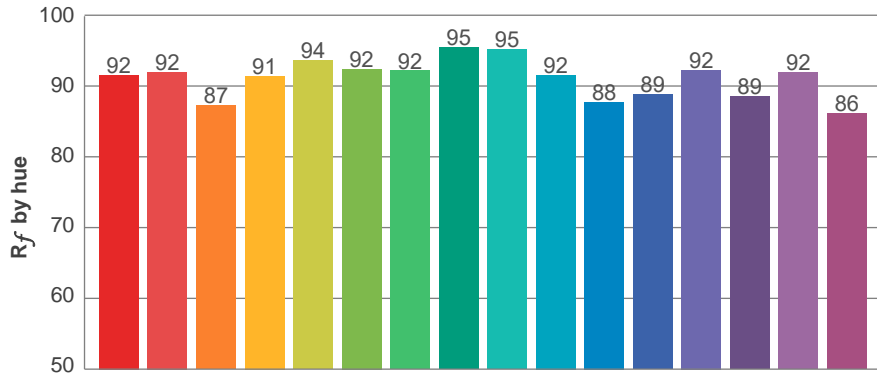
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	62.4	91.1	101.5	89.9	0.435	0.399	0.252	0.346	-0.0020

R_f 91.1
Fidelity index R_f

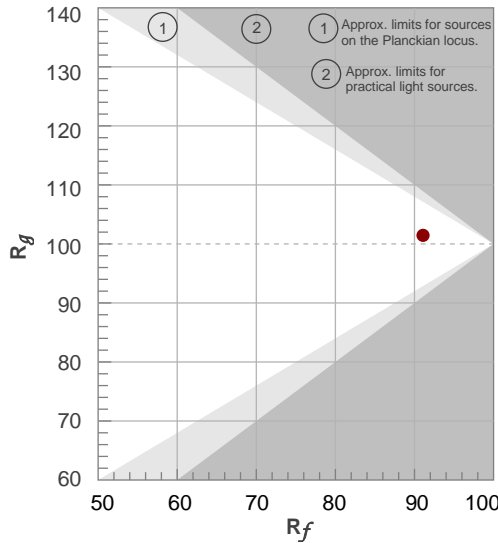
R_g 101.5
Gammut index R_g

TM30: 91.1

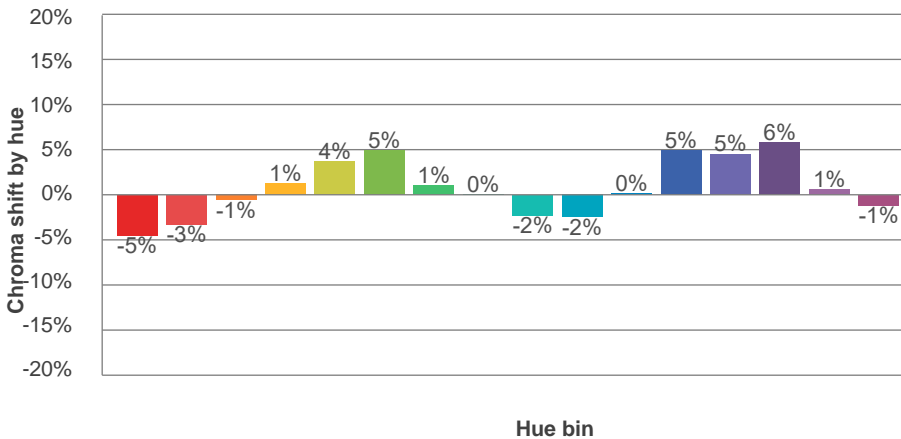
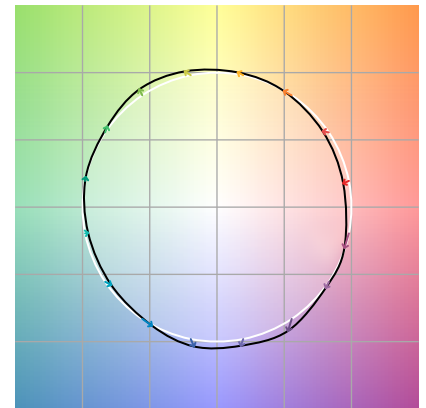
TM-30Color



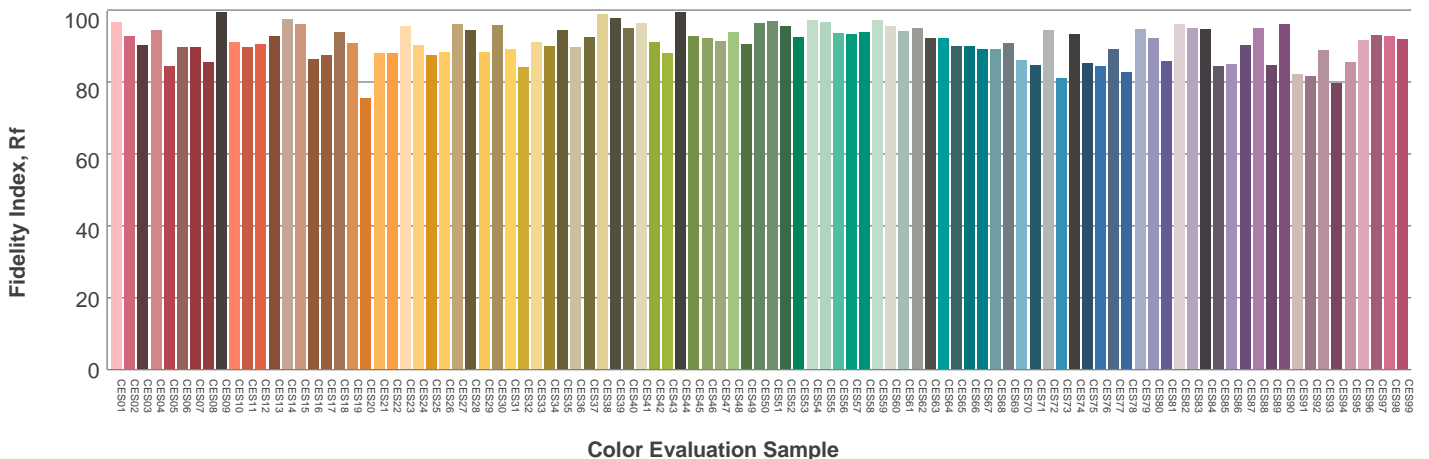
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-5%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	4%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



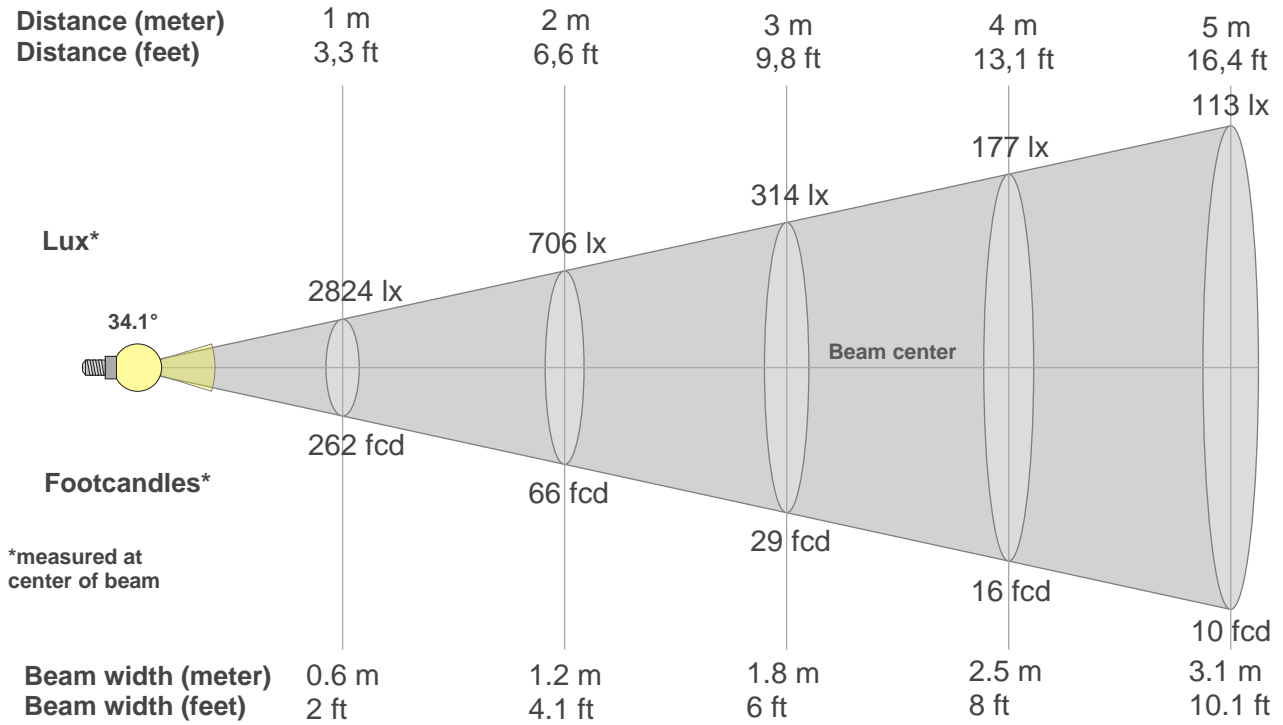
Color vector graphics



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
2824lx	706lx	314lx	177lx	113lx	78lx	58lx	44lx	35lx	28lx	23lx	20lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx	7lx
262.4fcd	65.6fcd	29.2fcd	16.4fcd	10.5fcd	7.3fcd	5.4fcd	4.1fcd	3.2fcd	2.6fcd	2.2fcd	1.8fcd	1.6fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	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°
2824	2811	2750	2643	2495	2308	2084	1827	1550	1271	1002	757	549	387	270	189	132	92	65	48
100%	100%	97%	94%	88%	82%	74%	65%	55%	45%	35%	27%	19%	14%	10%	7%	5%	3%	2%	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°
2824	2802	2733	2627	2484	2306	2090	1834	1567	1298	1039	801	599	441	317	226	161	115	83	60
100%	99%	97%	93%	88%	82%	74%	65%	55%	46%	37%	28%	21%	16%	11%	8%	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°
2824	2796	2727	2621	2477	2291	2067	1815	1548	1274	1011	775	576	413	287	200	142	102	74	54
100%	99%	97%	93%	88%	81%	73%	64%	55%	45%	36%	27%	20%	15%	10%	7%	5%	4%	3%	2%

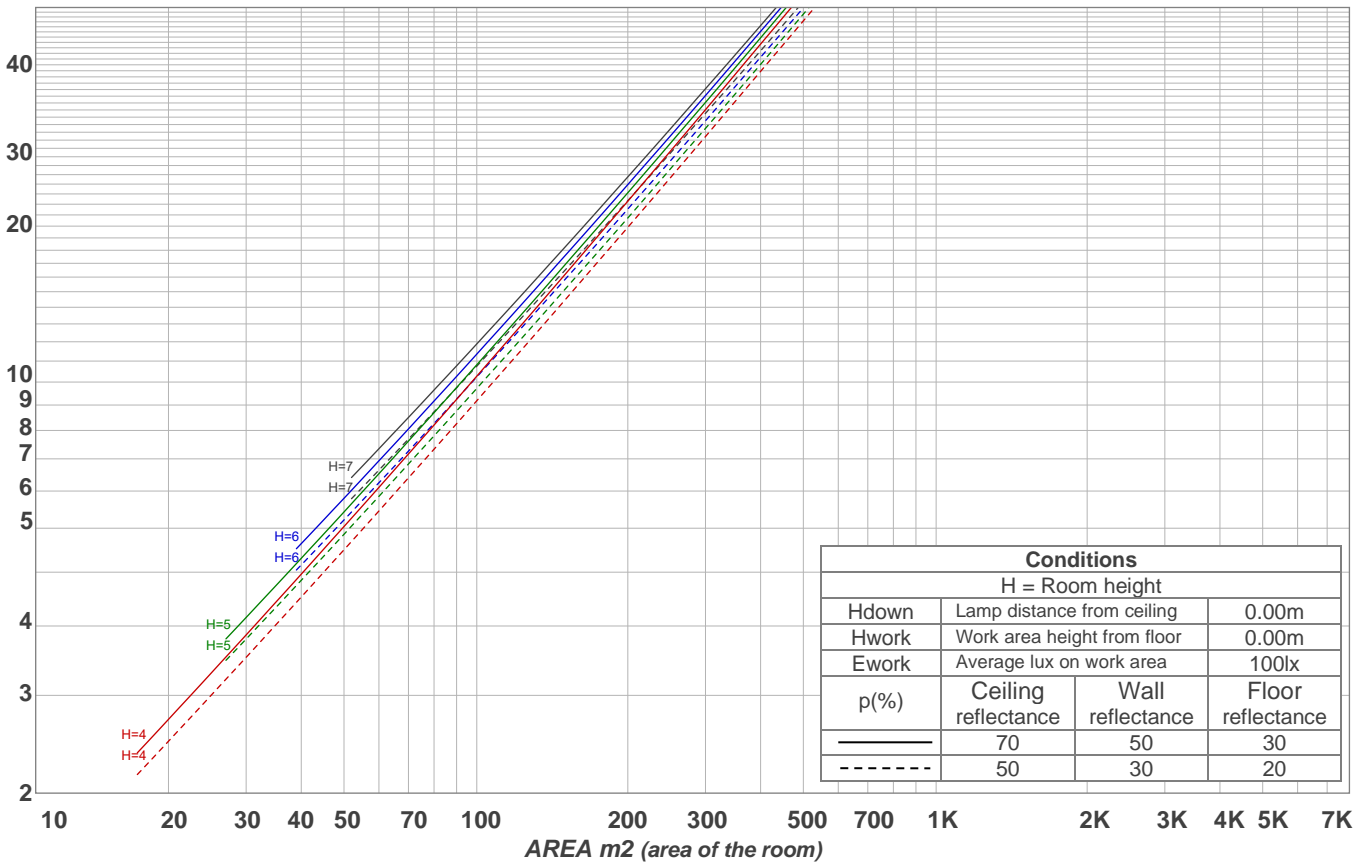
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2824	2798	2732	2628	2488	2310	2087	1838	1571	1296	1029	790	589	426	302	212	151	111	82	60
100%	99%	97%	93%	88%	82%	74%	65%	56%	46%	36%	28%	21%	15%	11%	8%	5%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34.1°	56.5°	72.9°	98.1%	96.6%

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	100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86	86	86	86
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82	82	82	82
5	98	91	86	83	96	90	86	82	88	85	82	87	83	81	85	82	80	79	79	79	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73	73	73	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70	70	70	70
9	85	77	73	69	84	77	72	69	76	72	69	75	72	69	74	71	69	68	68	68	68
10	82	75	70	67	81	74	70	67	73	69	67	73	69	66	72	69	66	65	65	65	65

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
245 lm	457 lm	234 lm	60.6 lm	16.7 lm	8.57 lm	8.32 lm	7.36 lm	4.52 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