

Light efficiency:



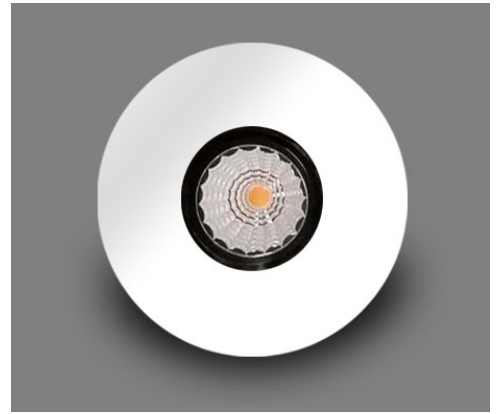
Output: 622 lm

Light quality:

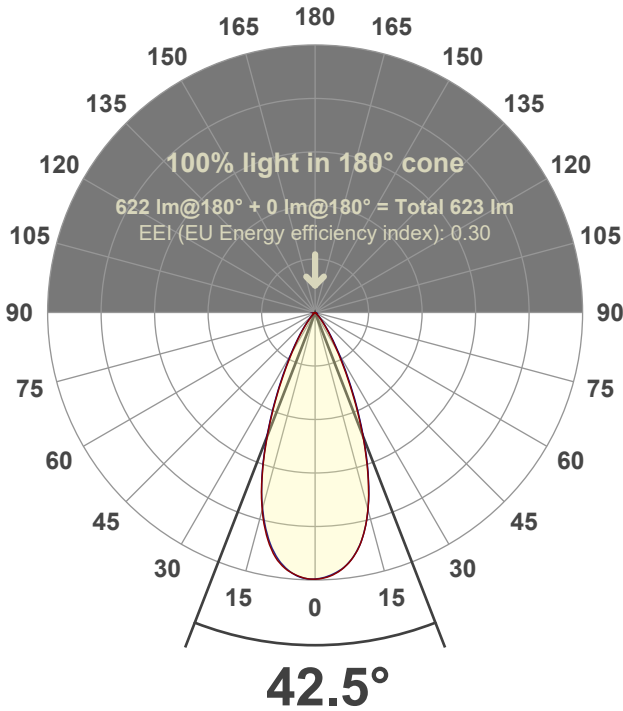


Peak: 1127 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-3022-WF-RD-91A-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-3022 60° Optic-Solite

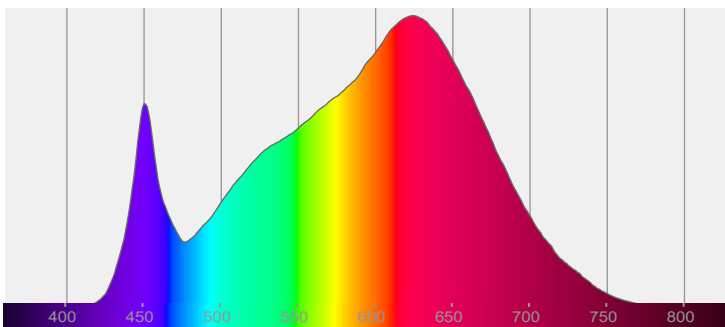
Date and time:

3/24/2022 6:00:36 PM

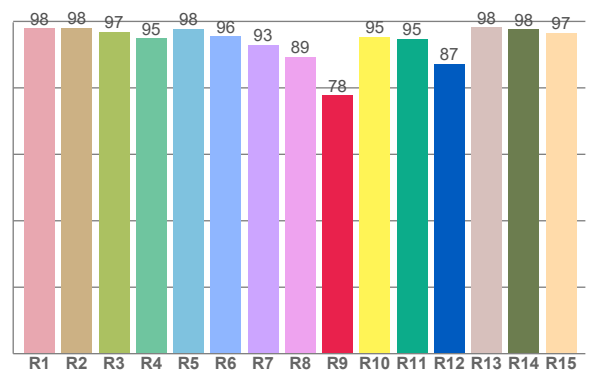
Delivered Lumens

622

Spectra



CRI: 95.4 (R1-R8)



Color parameters

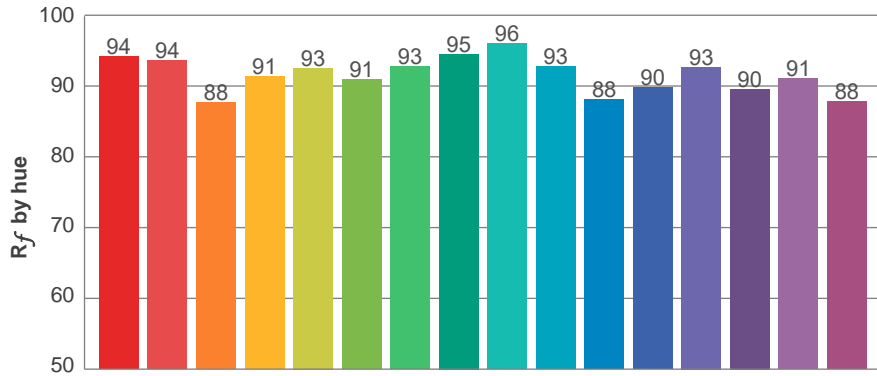
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	95.4	77.7	91.7	103.8	90.6	0.421	0.382	0.250	0.340	-0.0068

R_f 91.7
Fidelity index R_f

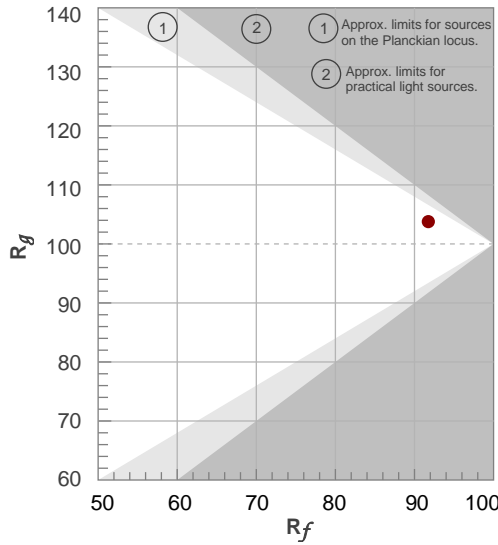
R_g 103.8
Gammut index R_g

TM30: 91.7

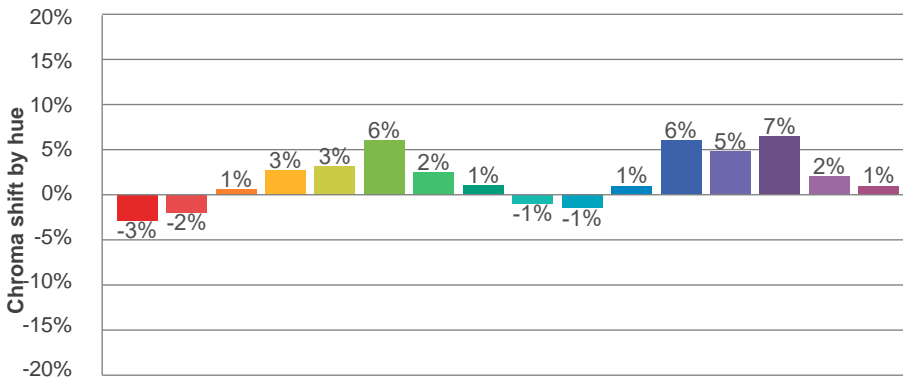
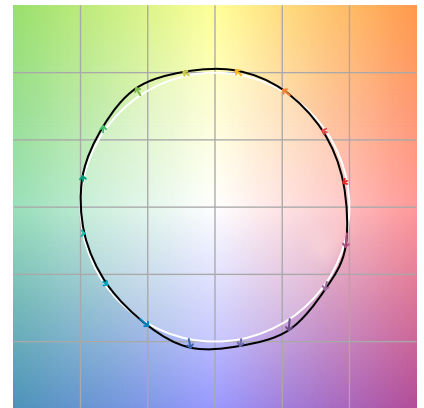
TM-30Color



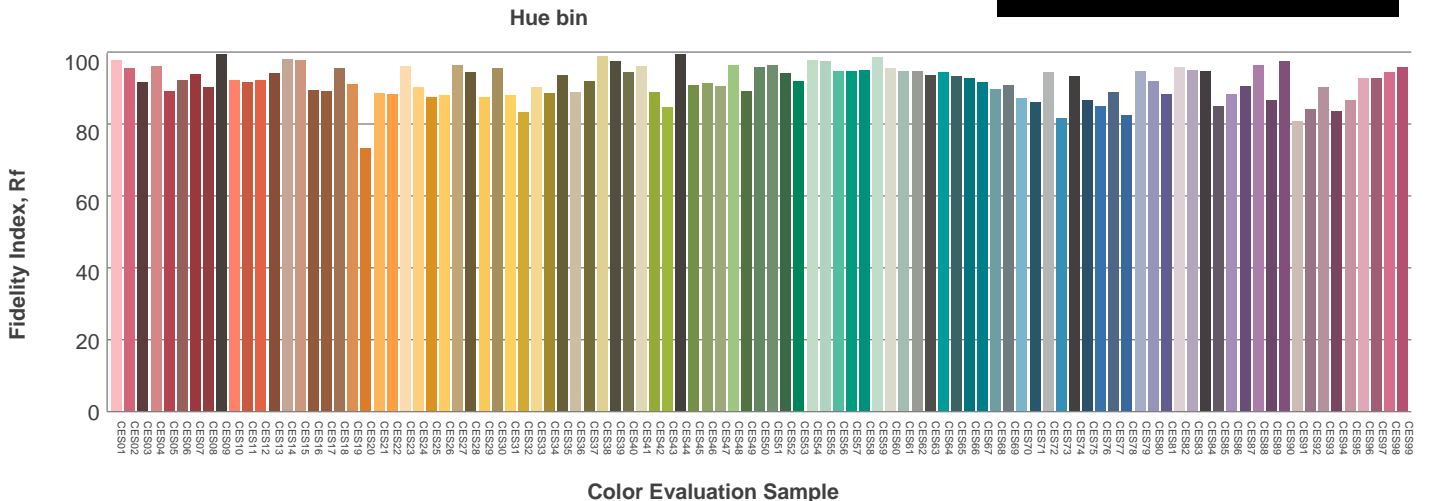
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	2%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	93	-1%	4%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	7%	-5%
15	91	2%	-6%
16	88	1%	-10%



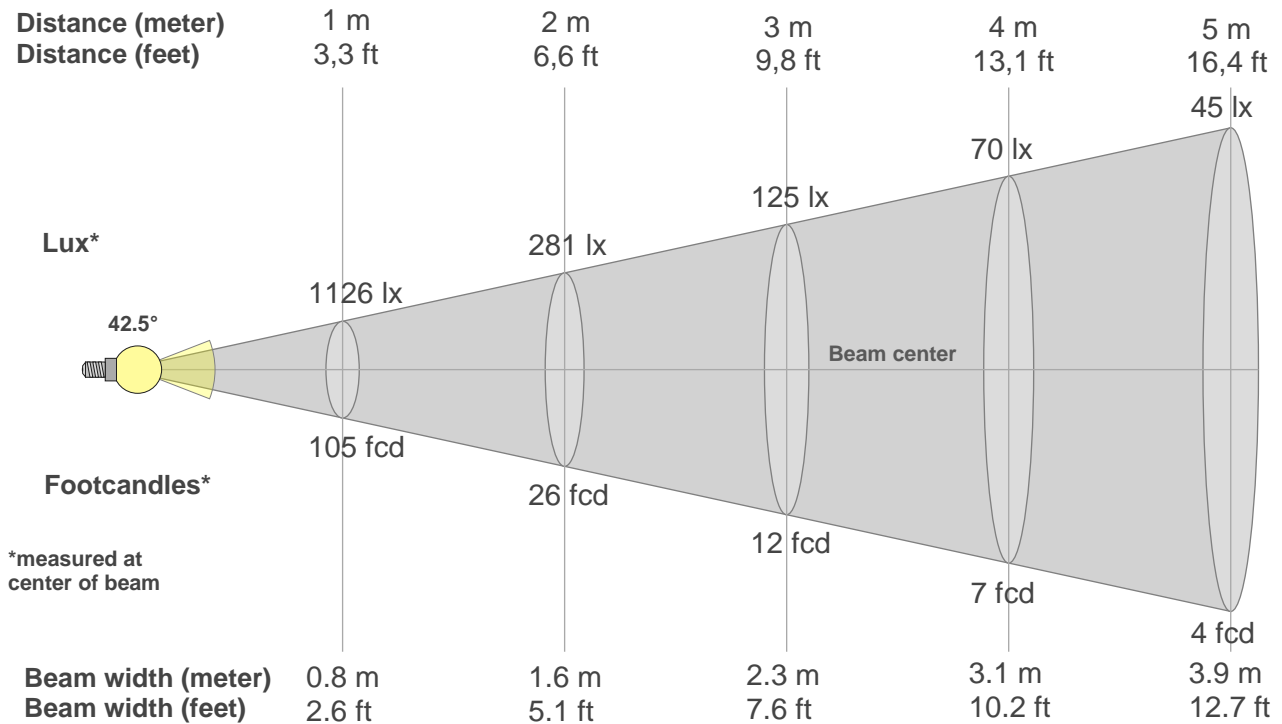
Color vector graphics



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
1126lx	281lx	125lx	70lx	45lx	31lx	23lx	18lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx
104.6fcd	26.1fcd	11.6fcd	6.5fcd	4.2fcd	2.9fcd	2.1fcd	1.6fcd	1.3fcd	1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd

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°
1126	1121	1110	1091	1062	1021	968	901	821	725	623	521	422	331	255	195	148	111	83	61
100%	100%	99%	97%	94%	91%	86%	80%	73%	64%	55%	46%	37%	29%	23%	17%	13%	10%	7%	5%

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°
1126	1120	1108	1088	1059	1020	968	903	822	729	629	528	432	346	271	210	161	122	93	70
100%	99%	98%	97%	94%	91%	86%	80%	73%	65%	56%	47%	38%	31%	24%	19%	14%	11%	8%	6%

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°
1126	1124	1113	1096	1068	1028	973	904	821	726	624	521	424	338	264	204	156	119	90	67
100%	100%	99%	97%	95%	91%	86%	80%	73%	64%	55%	46%	38%	30%	23%	18%	14%	11%	8%	6%

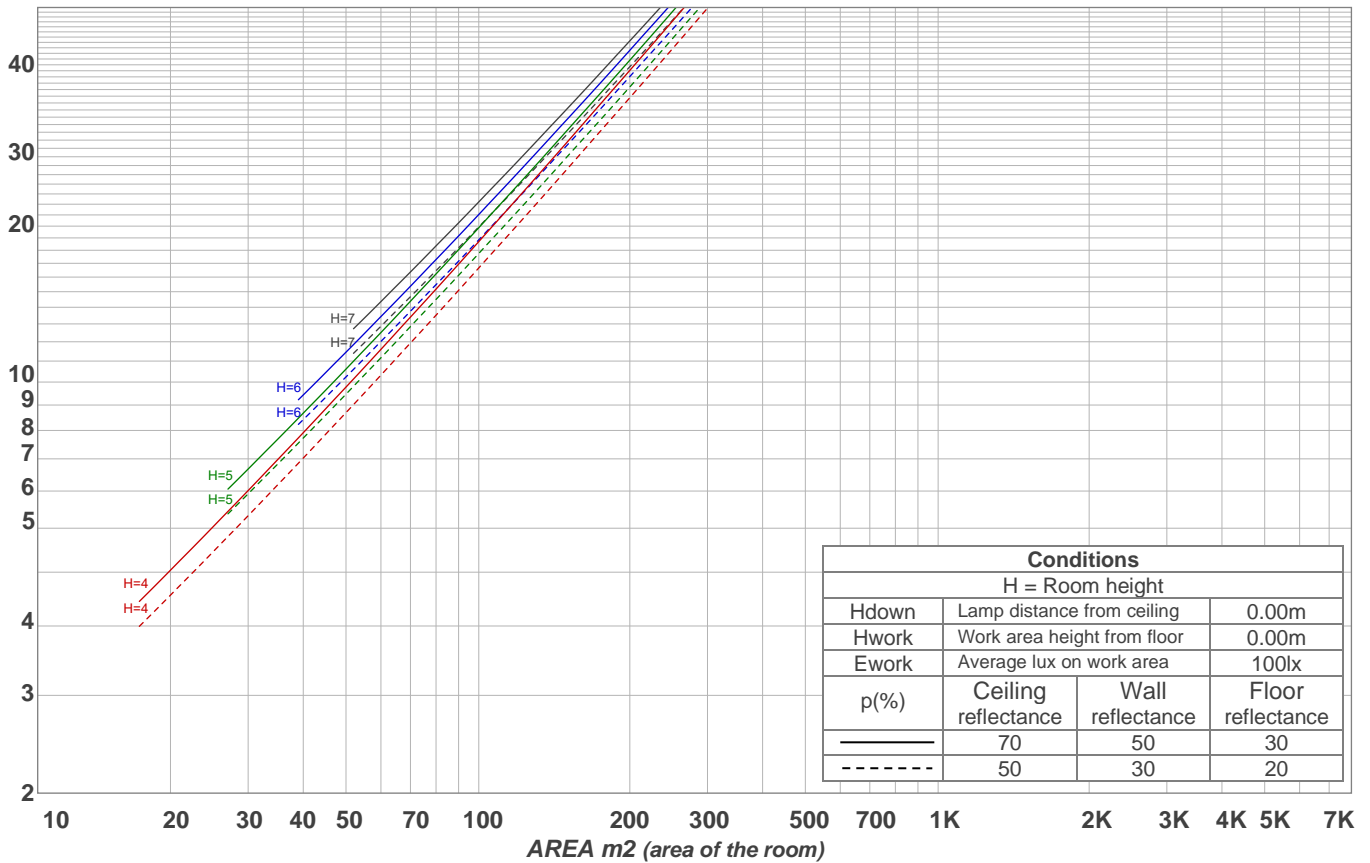
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1126	1124	1114	1095	1063	1019	964	896	819	727	628	528	433	345	274	215	166	127	96	73
100%	100%	99%	97%	94%	91%	86%	80%	73%	65%	56%	47%	38%	31%	24%	19%	15%	11%	9%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.5°	68.9°	87.9°	97.9%	95.5%

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	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88	88	88	
3	104	98	93	90	102	96	92	89	94	90	87	92	89	86	89	87	85	83	83	83	
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79	79	79	
5	95	87	82	78	93	87	82	78	85	80	77	83	79	77	82	78	76	74	74	74	
6	91	83	78	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71	71	71	
7	87	79	74	70	86	78	73	70	77	72	69	76	72	69	75	71	68	67	67	67	
8	84	75	70	66	83	75	70	66	74	69	66	73	69	65	72	68	65	64	64	64	
9	80	72	67	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61	61	61	
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	58	58	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
103 lm	235 lm	176 lm	68.0 lm	20.1 lm	7.58 lm	5.70 lm	4.64 lm	2.79 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