

Light efficiency:



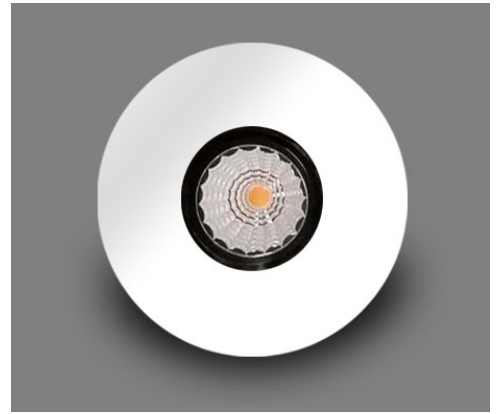
Output: 732 lm

Light quality:

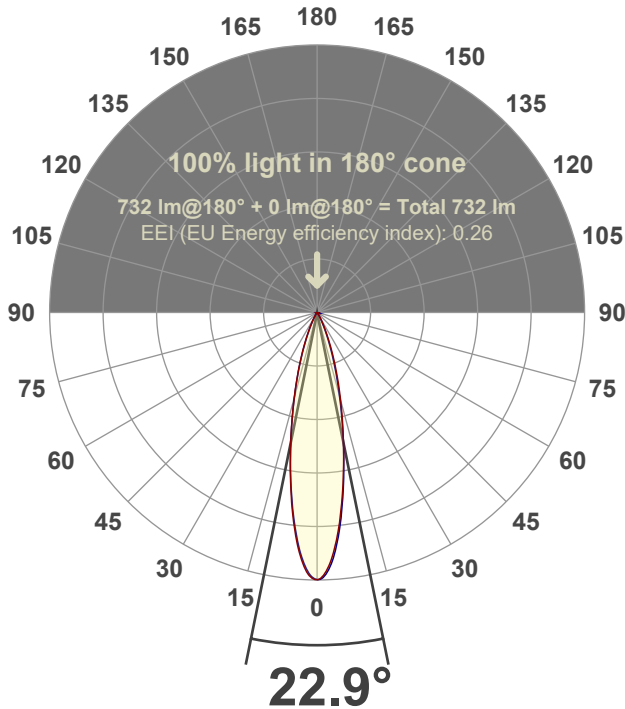


Peak: 3392 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-3022 15° Optic-Solite

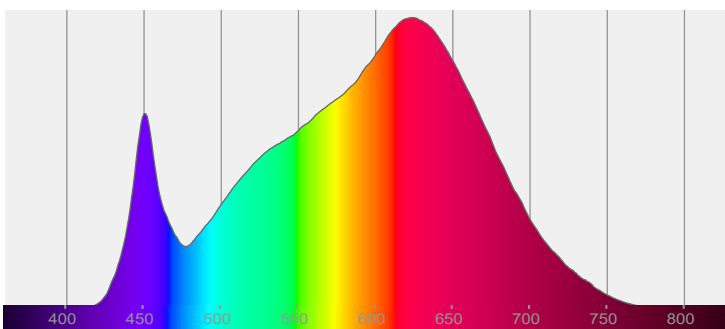
Date and time:

3/24/2022 3:59:16 PM

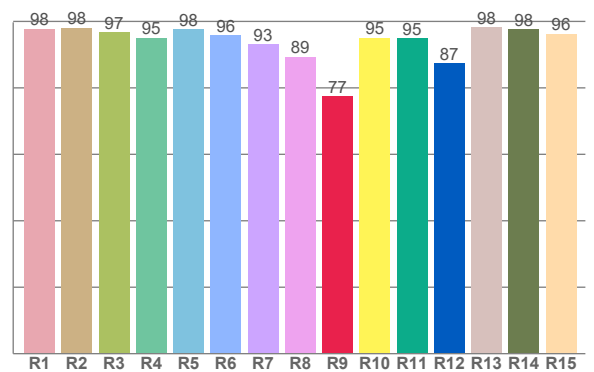
Delivered Lumens

732

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	77.4	91.9	103.7	90.8	0.423	0.384	0.250	0.341	-0.0061

R_f 91.9

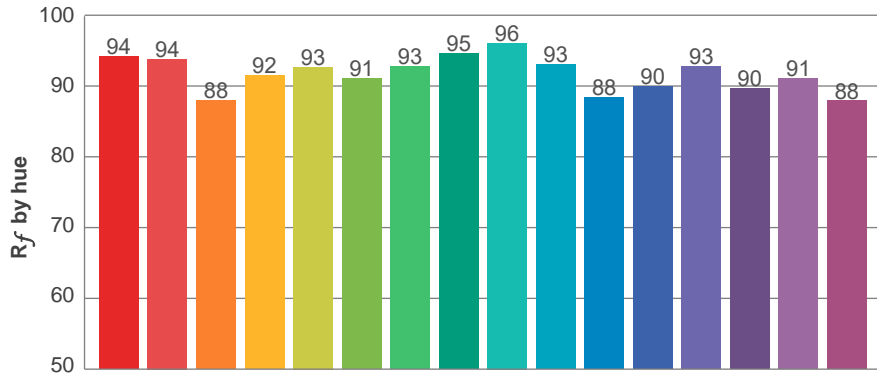
Fidelity index R_f

R_g 103.7

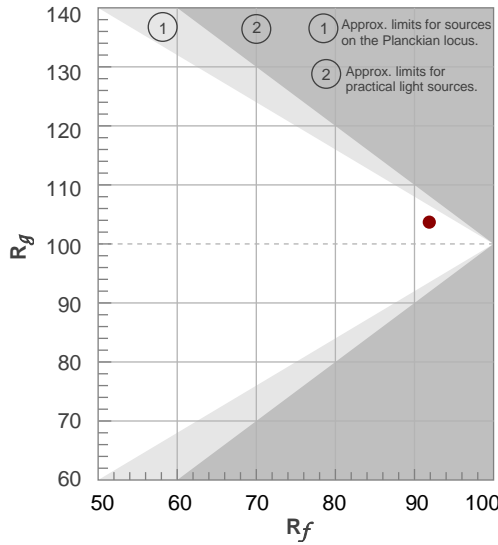
Gammut index R_g

TM30: 91.9

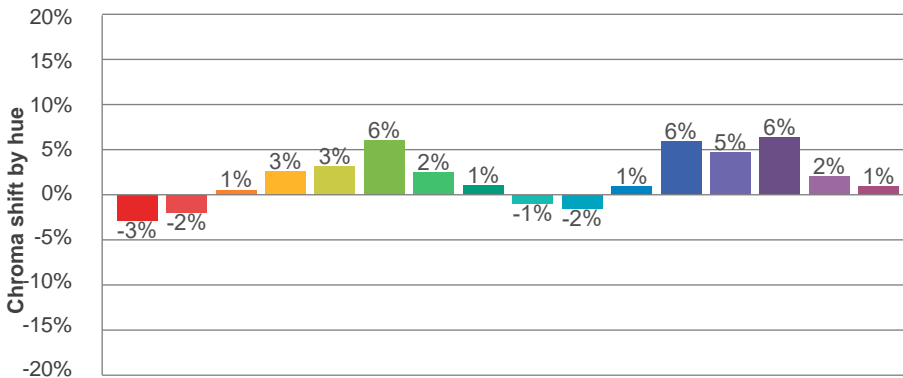
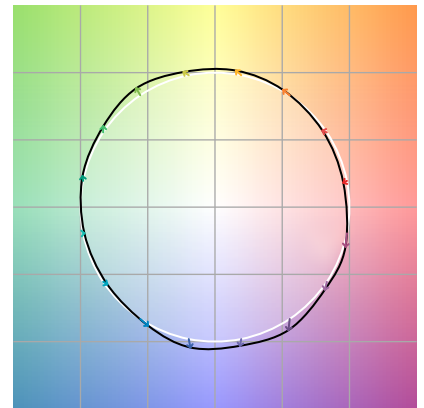
TM-30Color



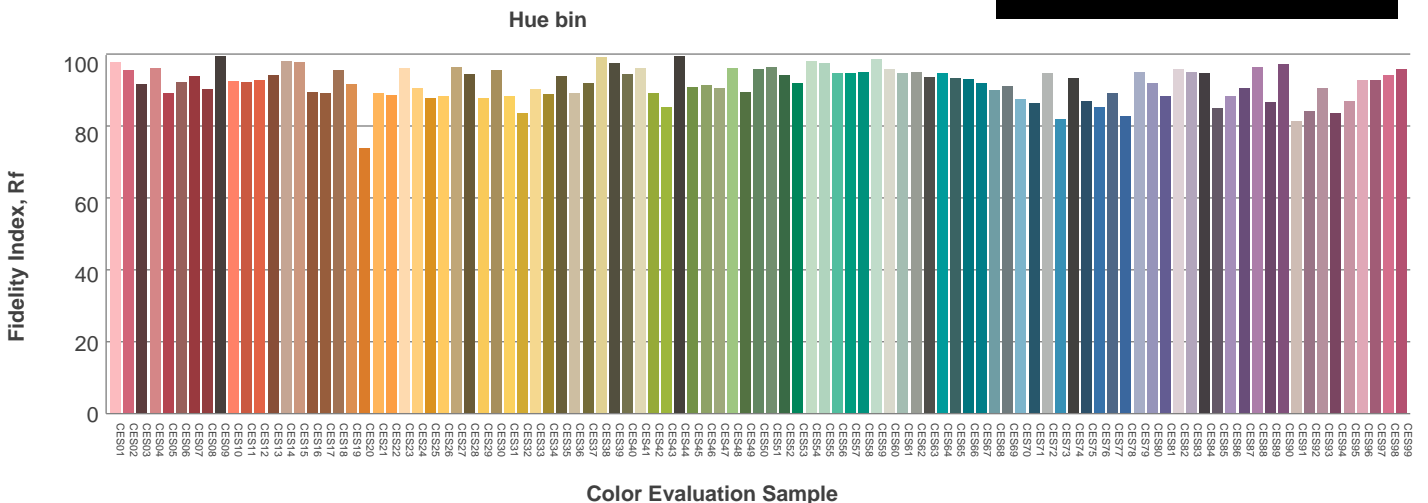
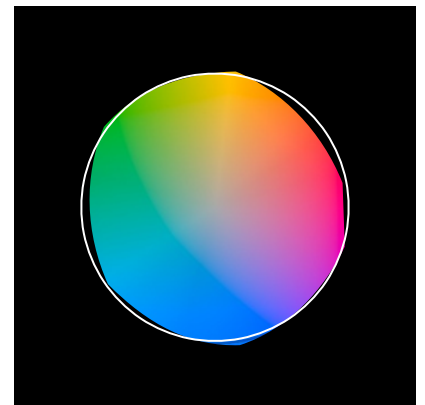
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	92	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	2%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	93	-2%	3%
11	88	1%	8%
12	90	6%	2%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-6%
16	88	1%	-10%



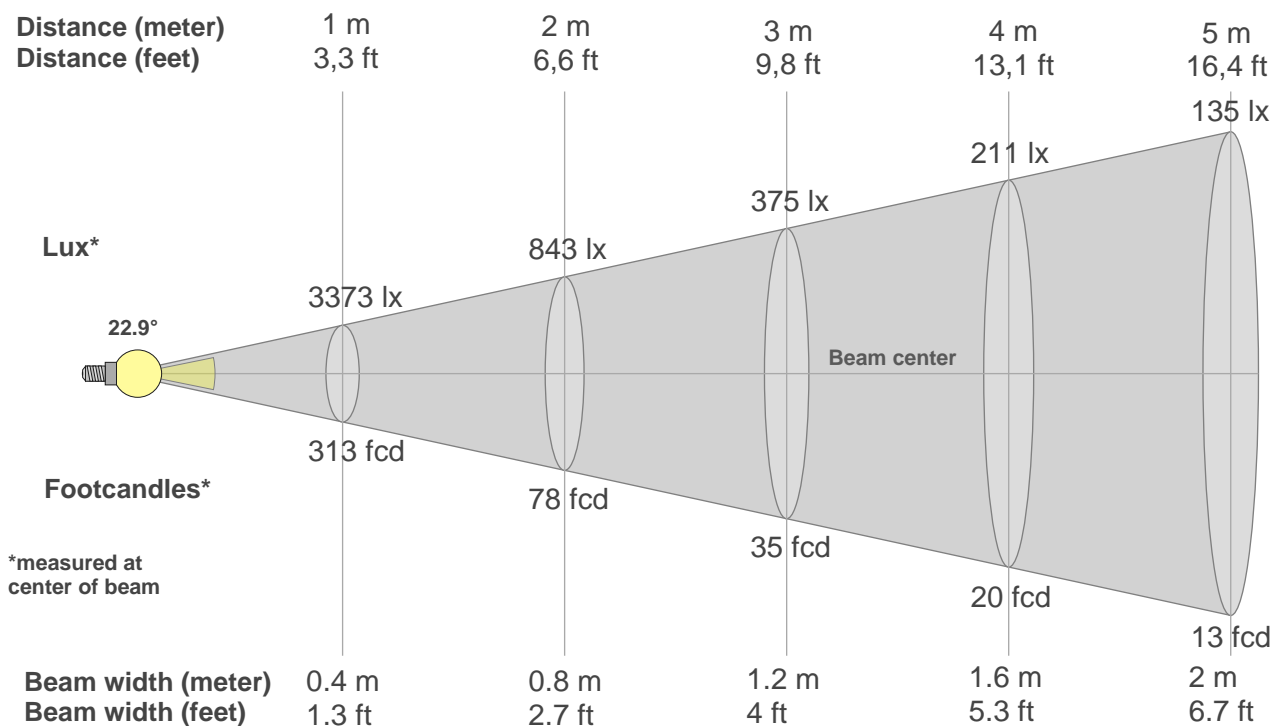
Color vector graphics



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
3373lx	843lx	375lx	211lx	135lx	94lx	69lx	53lx	42lx	34lx	28lx	23lx	20lx	17lx	15lx	13lx	12lx	10lx	9lx	8lx
313.4fcd	78.4fcd	34.8fcd	19.6fcd	12.5fcd	8.7fcd	6.4fcd	4.9fcd	3.9fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	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°
3373	3268	3030	2702	2323	1951	1611	1307	1038	803	613	452	323	224	154	111	80	58	42	30
100%	97%	90%	80%	69%	58%	48%	39%	31%	24%	18%	13%	10%	7%	5%	3%	2%	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°
3373	3299	3087	2756	2360	1968	1597	1263	976	745	554	399	278	188	130	90	63	44	31	22
100%	98%	92%	82%	70%	58%	47%	37%	29%	22%	16%	12%	8%	6%	4%	3%	2%	1%	1%	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°
3373	3327	3082	2749	2367	1972	1601	1283	1009	776	581	422	301	211	147	103	73	53	38	27
100%	99%	91%	81%	70%	58%	47%	38%	30%	23%	17%	13%	9%	6%	4%	3%	2%	2%	1%	1%

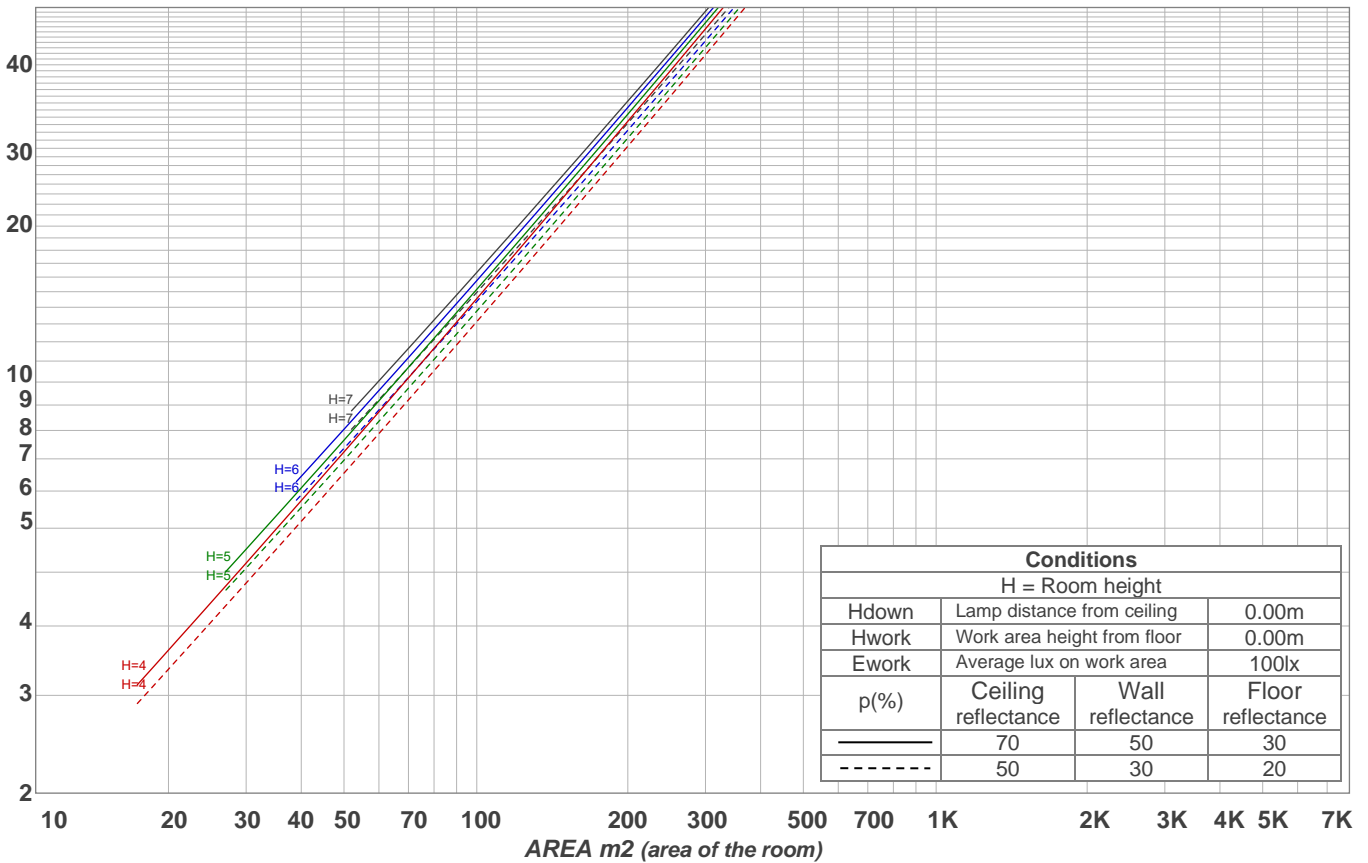
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3373	3285	3061	2715	2340	1963	1602	1271	996	763	568	407	281	197	137	95	66	46	33	24
100%	97%	91%	80%	69%	58%	47%	38%	30%	23%	17%	12%	8%	6%	4%	3%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.9°	46.5°	61.9°	98.5%	97.6%

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	
1	115	112	110	108	112	110	108	107	106	105	104	103	101	100	99	98	98	96	96	96	
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92	92	92	
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86	86	86	
5	100	94	90	86	99	93	89	86	91	88	85	90	87	85	89	86	84	83	83	83	
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80	80	80	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78	
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75	75	75	
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	79	76	74	73	73	73	
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71	71	71	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
246 lm	313 lm	121 lm	28.8 lm	7.71 lm	4.36 lm	4.40 lm	3.71 lm	2.47 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