

Light efficiency:



Output: 742 lm

Light quality:

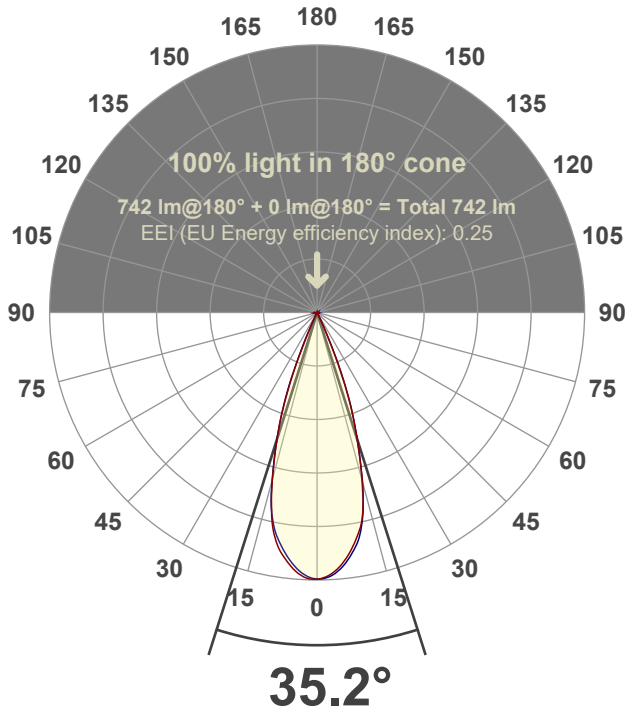


Peak: 2360 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-3022 38° Optic

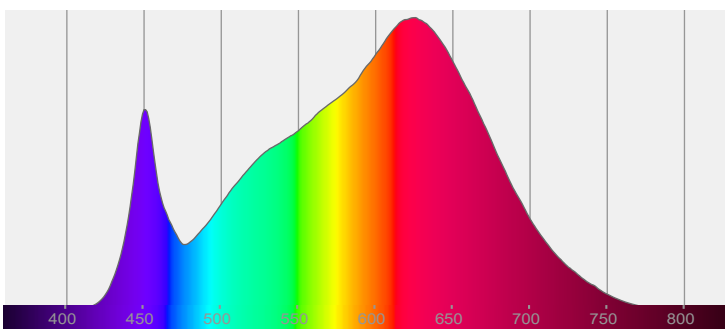
Date and time:

3/24/2022 5:28:17 PM

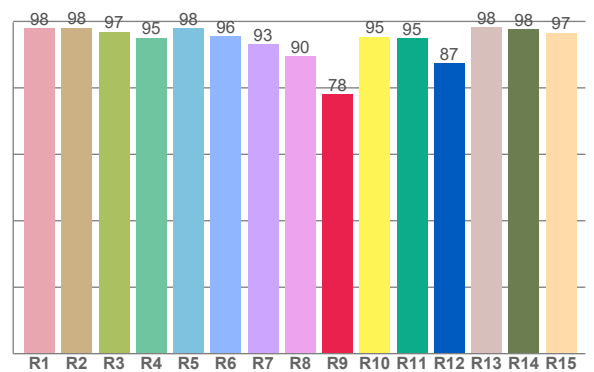
Delivered Lumens

742

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 deviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
95.5	78.0	91.9	103.8	90.8	0.422	0.383	0.250	0.340	-0.0065

R_f 91.9

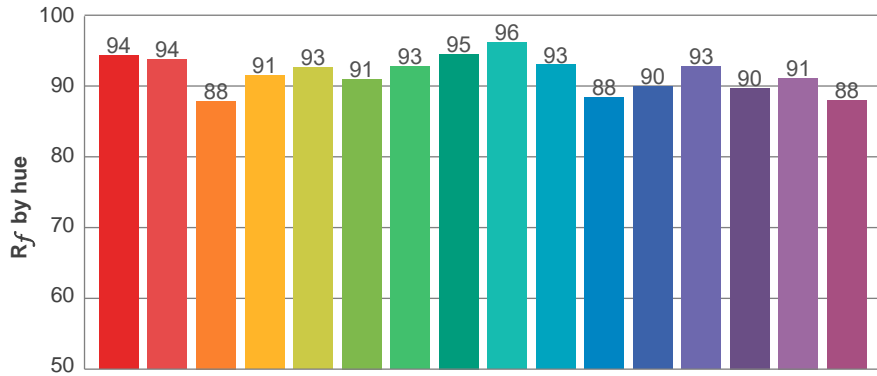
Fidelity index R_f

R_g 103.8

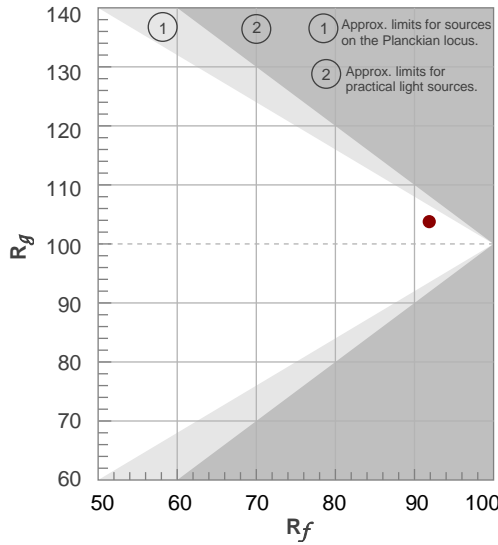
Gammut index R_g

TM30: 91.9

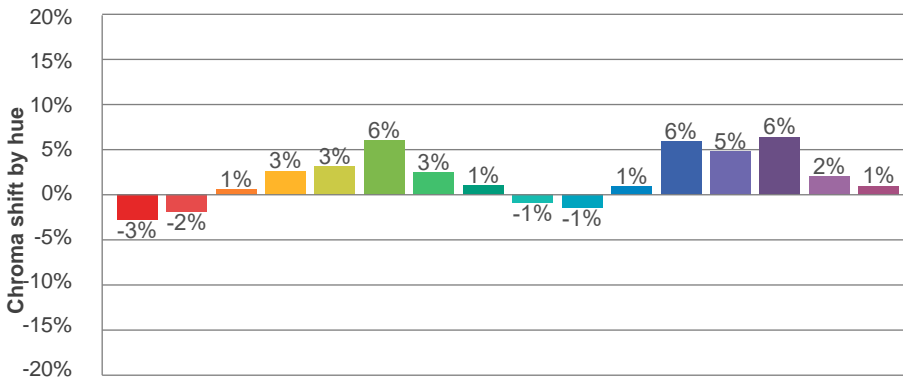
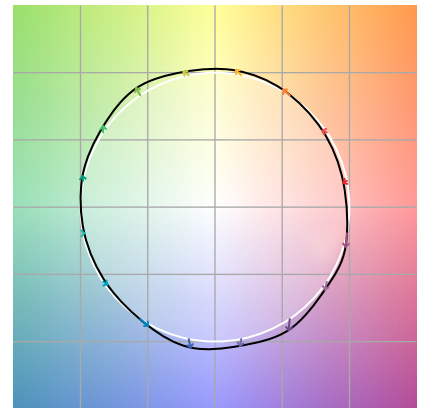
TM-30Color



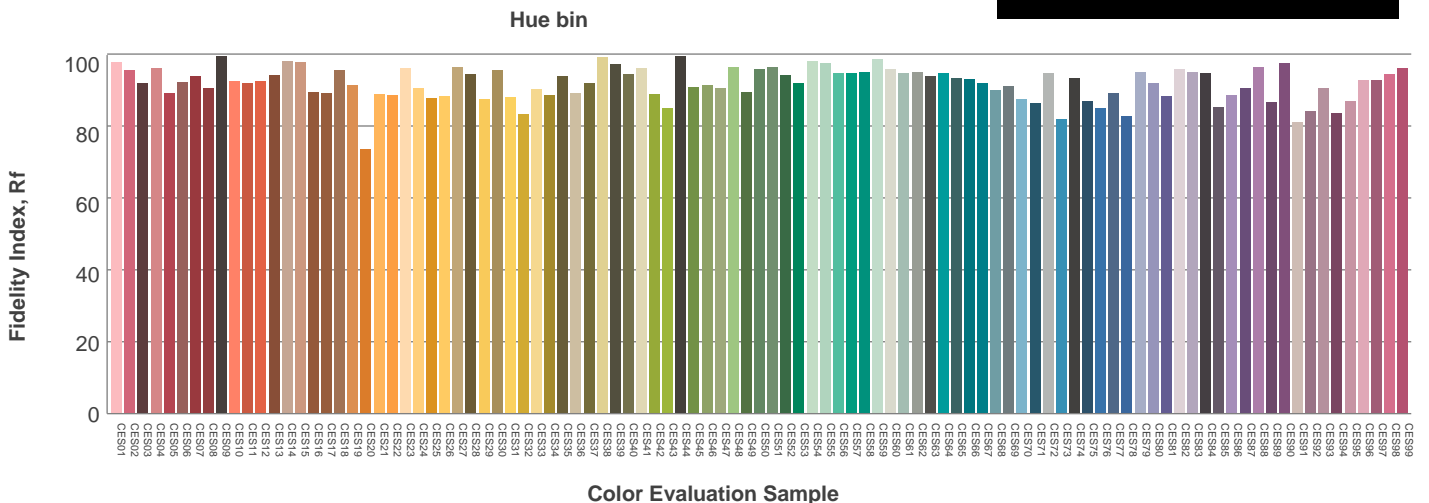
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	93	-1%	3%
11	88	1%	8%
12	90	6%	2%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-5%
16	88	1%	-10%



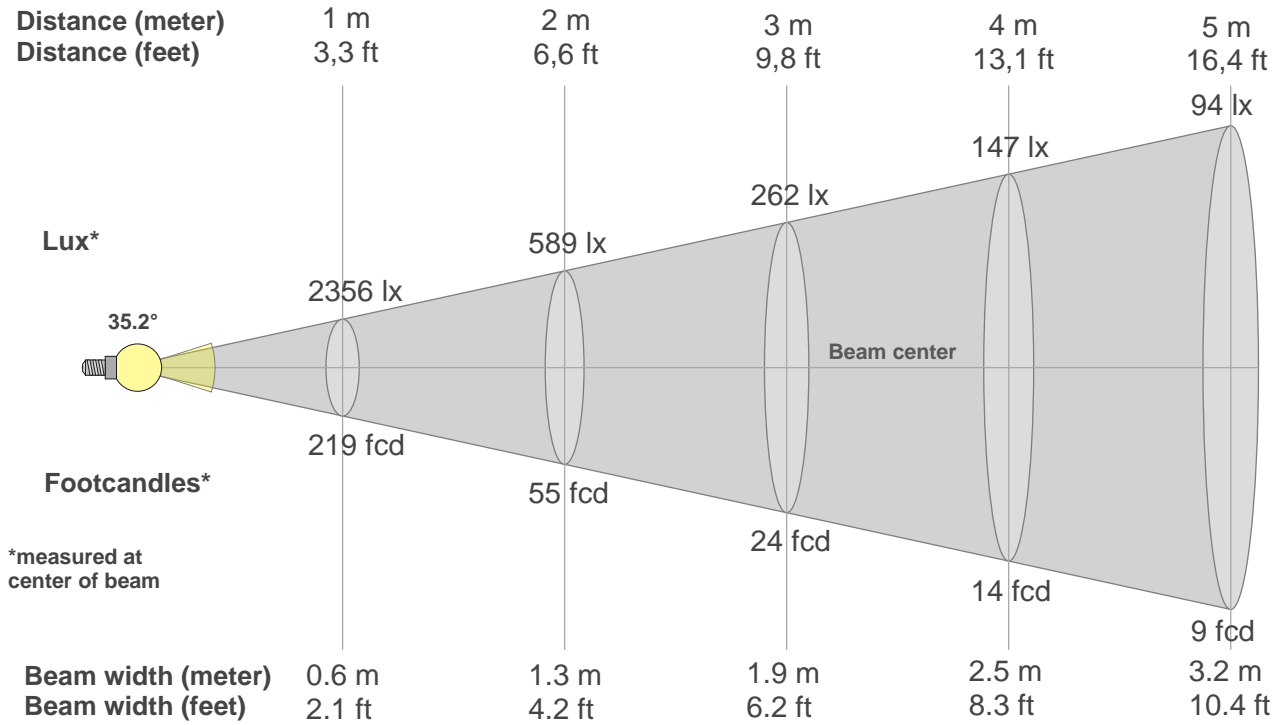
Color vector graphics



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
2356lx	589lx	262lx	147lx	94lx	65lx	48lx	37lx	29lx	24lx	19lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	7lx	6lx
218.9fcd	54.7fcd	24.3fcd	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°
2356	2336	2289	2219	2129	2022	1891	1680	1410	1125	857	569	284	108	30	12	6	5	4	3
100%	99%	97%	94%	90%	86%	80%	71%	60%	48%	36%	24%	12%	5%	1%	1%	0%	0%	0%	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°
2356	2345	2310	2250	2164	2058	1899	1677	1403	1125	853	545	271	93	34	16	9	6	5	4
100%	100%	98%	96%	92%	87%	81%	71%	60%	48%	36%	23%	12%	4%	1%	1%	0%	0%	0%	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°
2356	2353	2315	2251	2169	2064	1912	1668	1396	1125	844	531	231	90	31	12	7	5	3	2
100%	100%	98%	96%	92%	88%	81%	71%	59%	48%	36%	23%	10%	4%	1%	1%	0%	0%	0%	0%

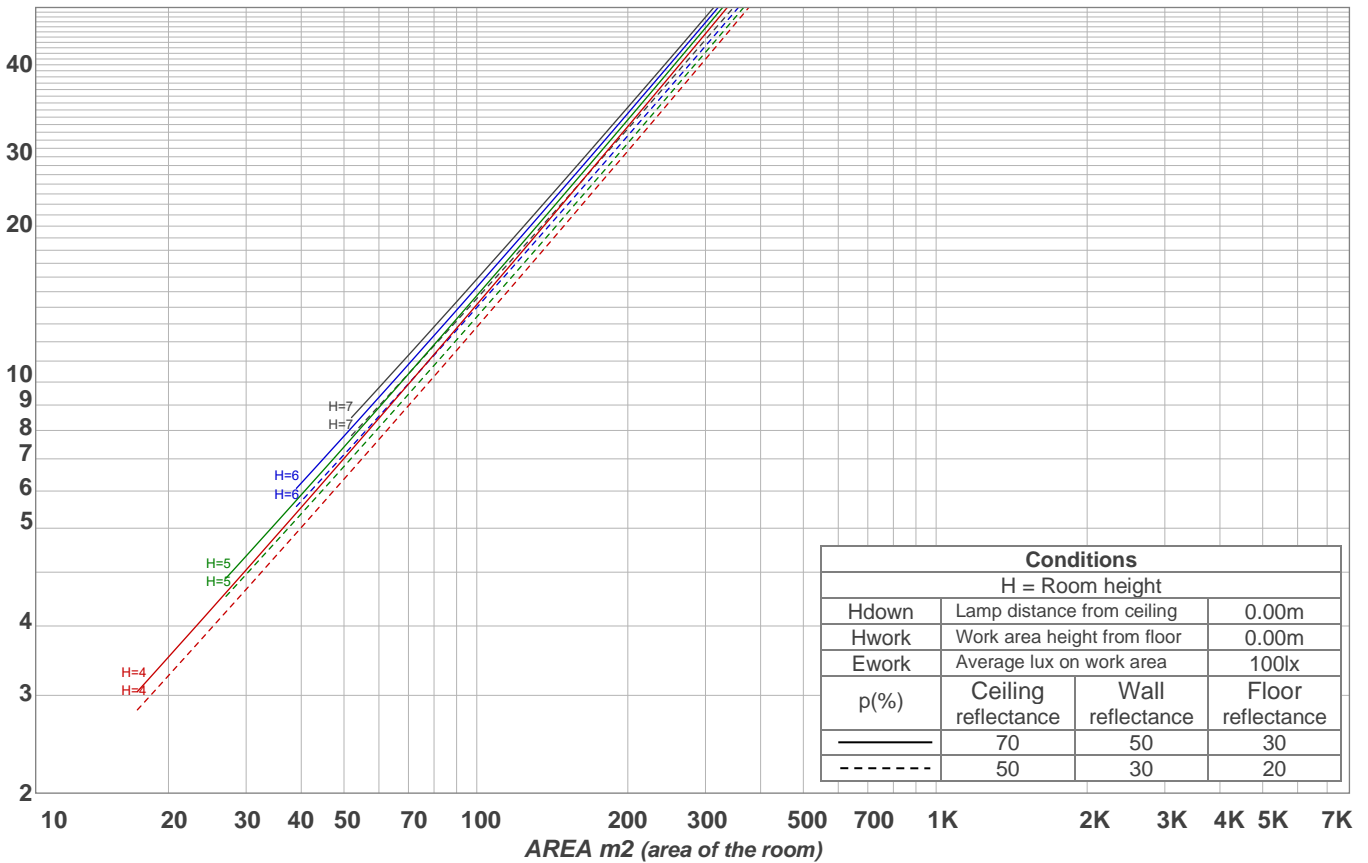
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2356	2336	2290	2216	2124	2018	1877	1679	1400	1125	849	552	269	71	25	10	6	4	3	3
100%	99%	97%	94%	90%	86%	80%	71%	59%	48%	36%	23%	11%	3%	1%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35.2°	48.5°	53.4°	99.2%	98.8%

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	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93	93	93	
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90	90	90	
4	104	99	95	92	102	98	94	91	96	92	90	94	91	89	92	90	88	87	87	87	
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84	84	84	
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81	81	81	
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79	79	79	
8	92	86	82	79	92	85	81	79	84	81	78	84	80	78	83	80	78	77	77	77	
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	81	78	76	75	75	75	
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	78	76	74	72	72	72	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
209 lm	410 lm	110 lm	3.04 lm	1.44 lm	1.74 lm	1.74 lm	1.98 lm	2.48 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