

Light efficiency:



Output: 580 lm

Light quality:

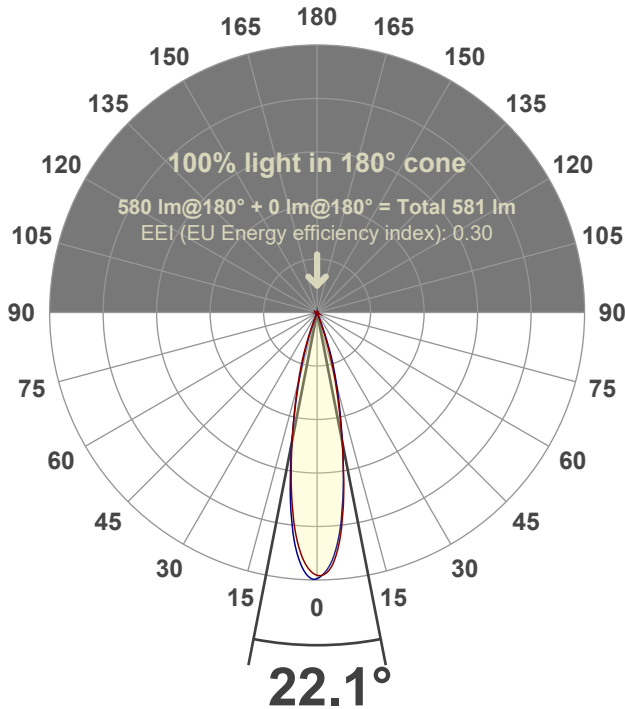


Peak: 3670 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-F-A14-3019-NF-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3019 24° Optic

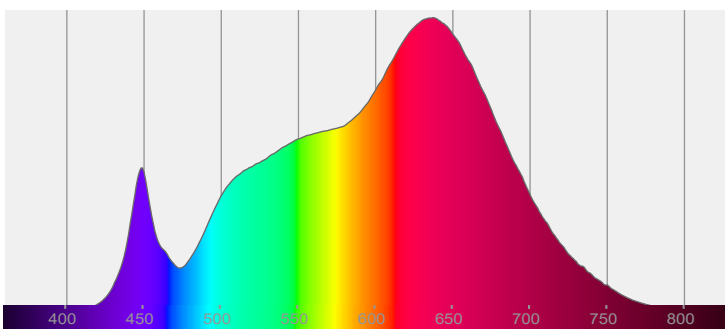
Date and time:

6/30/2022 12:19:49 PM

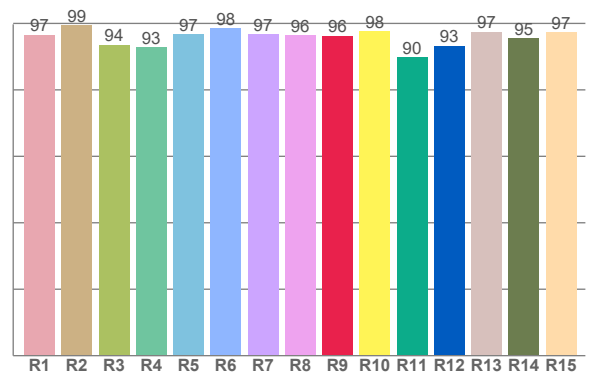
Delivered Lumens

580

Spectra



CRI: 96.3 (R1-R8)



Color parameters

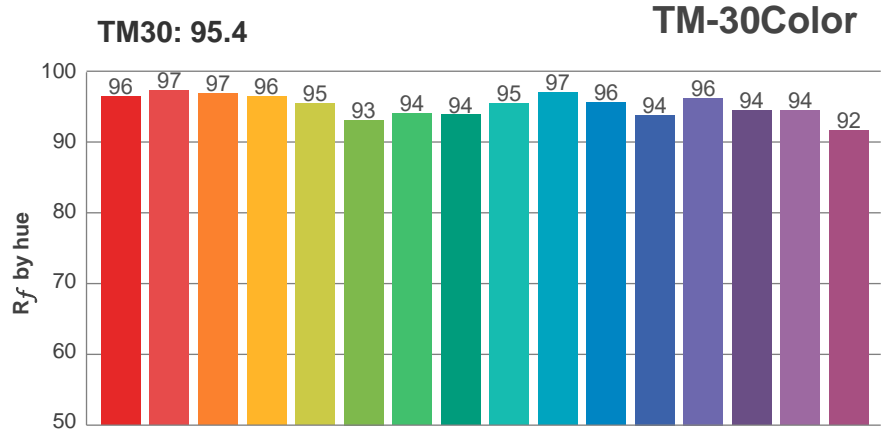
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.3	96.3	95.4	104.1	94.9	0.436	0.403	0.250	0.347	-0.0003

R_f 95.4

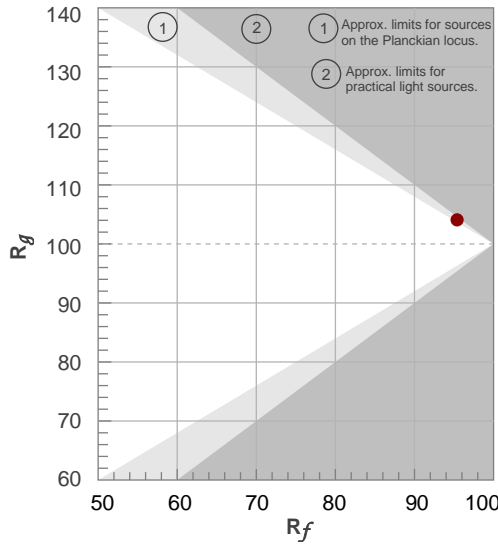
Fidelity index R_f

R_g 104.1

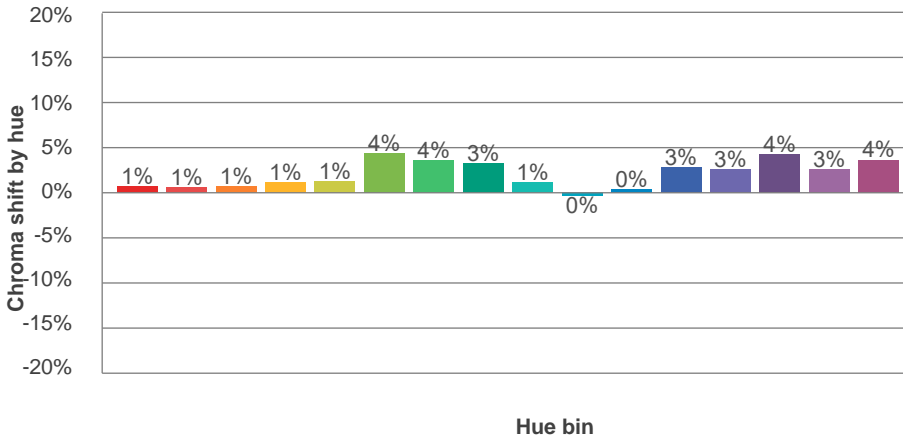
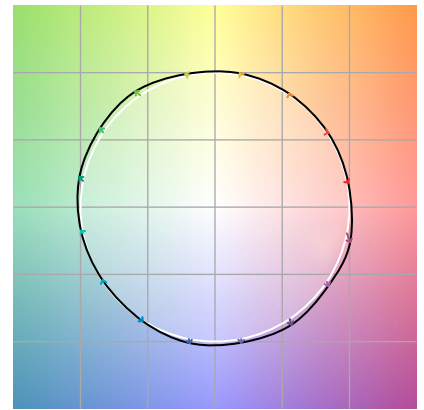
Gammut index R_g



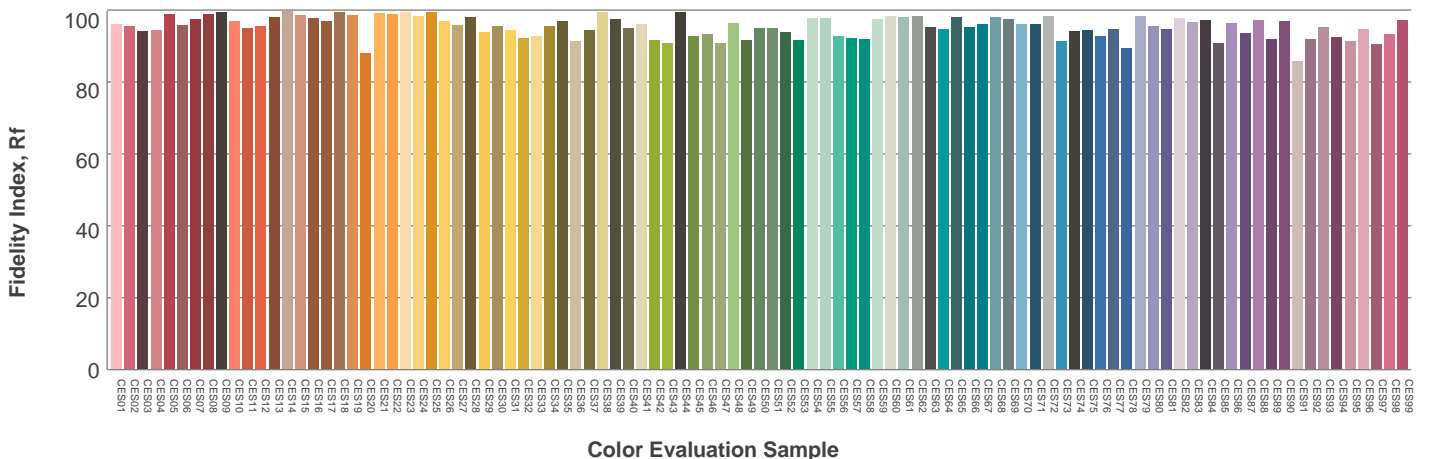
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	95	1%	2%
6	93	4%	2%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	94	3%	-2%
16	92	4%	-6%



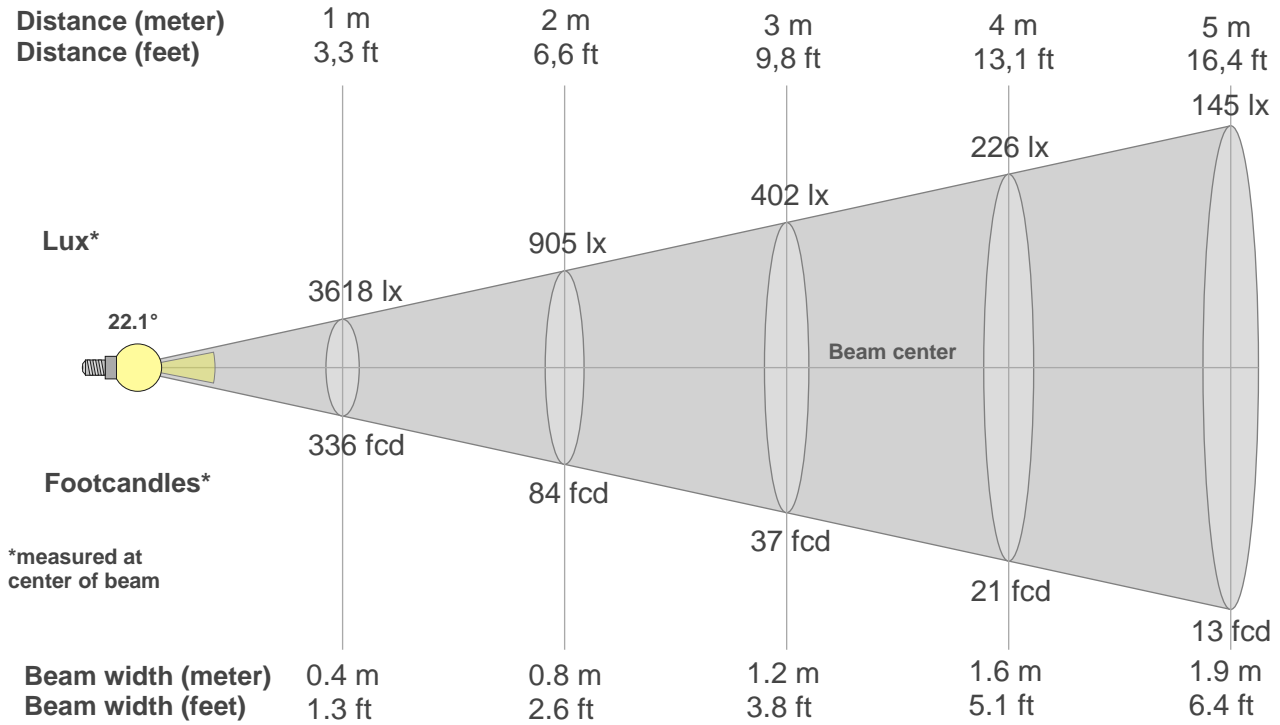
Color vector graphics



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
3618lx	905lx	402lx	226lx	145lx	101lx	74lx	57lx	45lx	36lx	30lx	25lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx	9lx
336.2fcd	84fcd	37.4fcd	21fcd	13.4fcd	9.3fcd	6.9fcd	5.3fcd	4.2fcd	3.4fcd	2.8fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3618	3612	3568	3507	3404	3247	3084	2849	2614	2352	2080	1820	1580	1342	1151	959	790	630	477	339
100%	100%	99%	97%	94%	90%	85%	79%	72%	65%	57%	50%	44%	37%	32%	27%	22%	17%	13%	9%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3618	3612	3543	3453	3341	3176	3012	2786	2556	2318	2074	1838	1626	1414	1237	1065	908	764	620	475
100%	100%	98%	95%	92%	88%	83%	77%	71%	64%	57%	51%	45%	39%	34%	29%	25%	21%	17%	13%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3618	3580	3503	3416	3293	3135	2968	2748	2528	2291	2050	1819	1600	1386	1207	1028	878	736	597	462
100%	99%	97%	94%	91%	87%	82%	76%	70%	63%	57%	50%	44%	38%	33%	28%	24%	20%	16%	13%

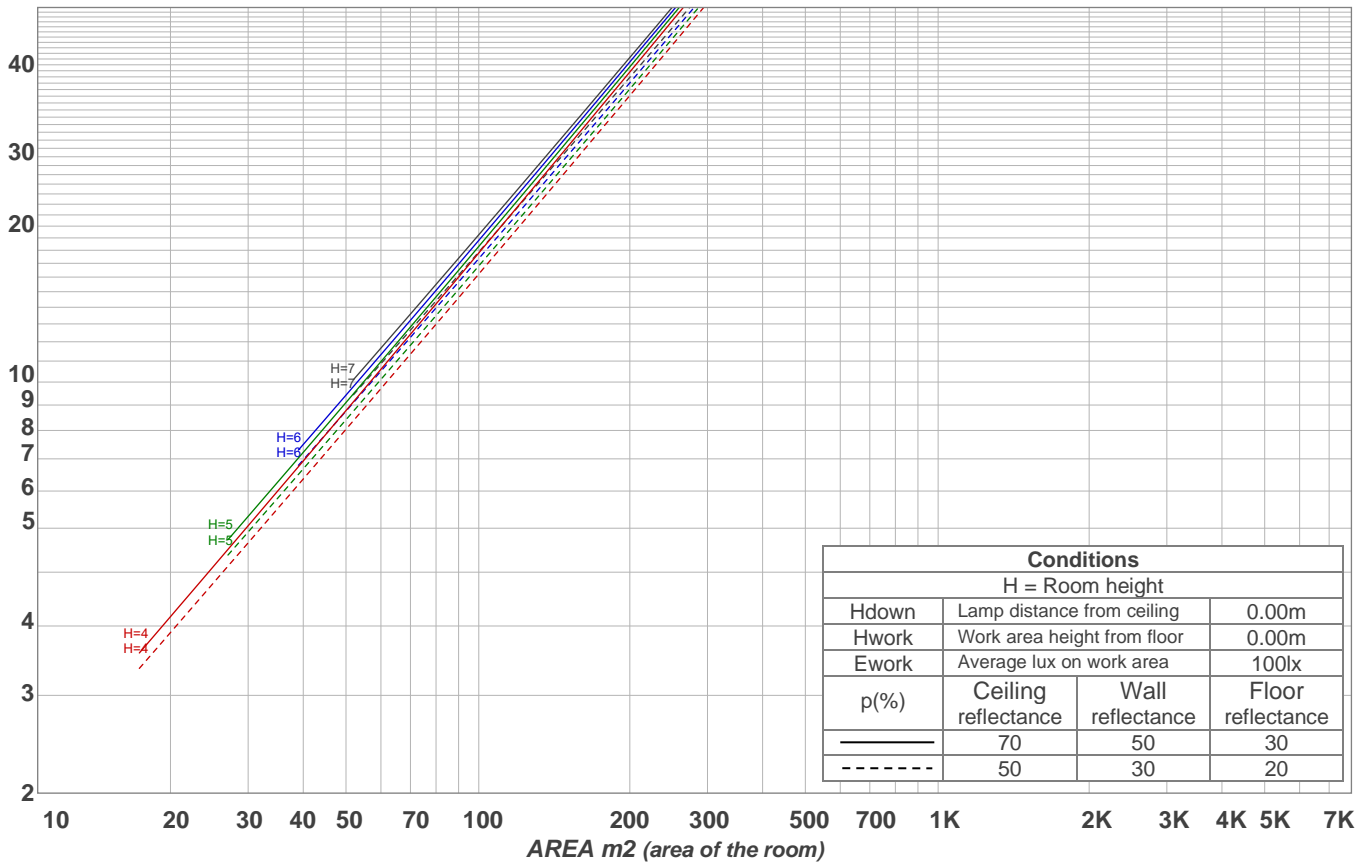
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
3618	3670	3604	3539	3418	3269	3096	2866	2637	2368	2098	1839	1588	1350	1150	950	783	621	472	336
100%	101%	100%	98%	94%	90%	86%	79%	73%	65%	58%	51%	44%	37%	32%	26%	22%	17%	13%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.1°	38.5°	43.9°	98.6%	98.0%

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		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97		
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94	94		
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92	92		
4	106	101	98	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	90		
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88	88		
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86	86		
7	99	93	90	87	98	93	89	87	92	89	86	91	88	86	90	87	86	85	85		
8	97	91	87	85	96	91	87	85	90	87	85	89	86	84	88	86	84	83	83		
9	95	89	86	83	94	89	85	83	88	85	83	87	85	83	87	84	82	82	82		
10	93	87	84	82	92	87	84	81	86	83	81	86	83	81	85	83	81	80	80		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
269 lm	272 lm	22.6 lm	4.07 lm	1.98 lm	2.14 lm	2.36 lm	2.71 lm	3.03 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