

Light efficiency:



Output: 652 lm

Light quality:

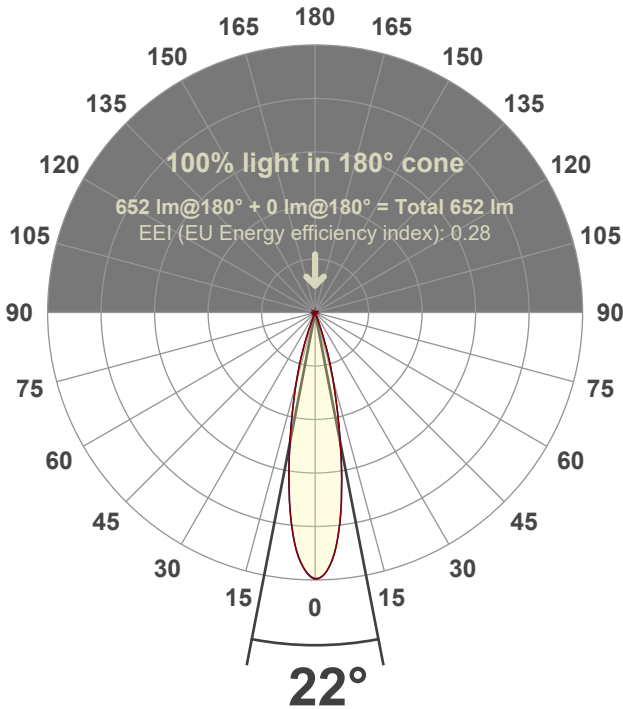


Peak: 4195 cd

Power: 15.1 W



Beam angle



Test number:

GR-F-F-A14-3022-NF-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3022 24° Optic

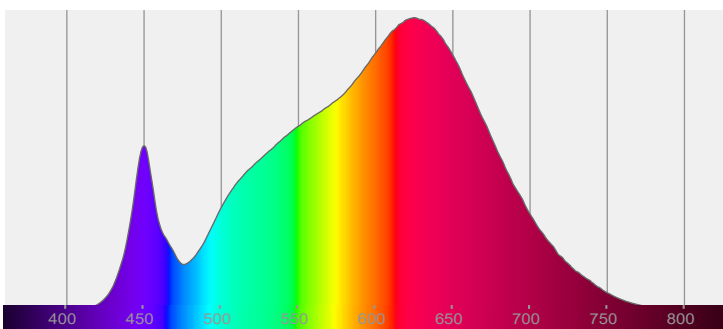
Date and time:

6/30/2022 4:14:37 PM

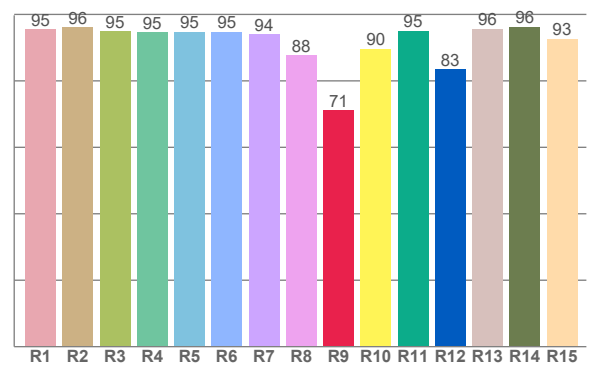
Delivered Lumens

652

Spectra



CRI: 94.0 (R1-R8)



Color parameters

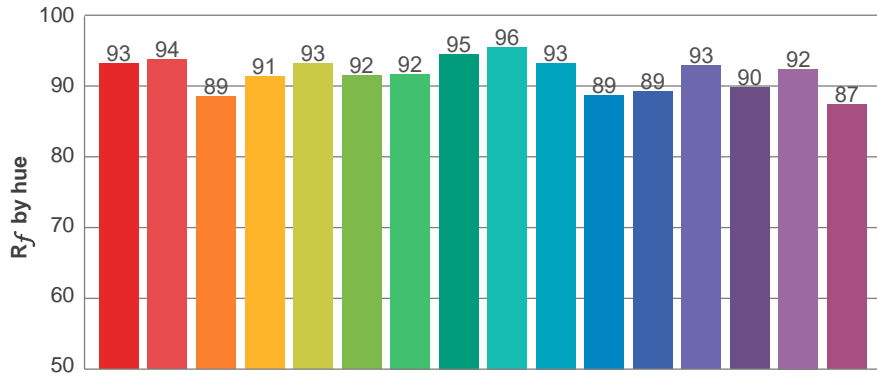
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.0	71.1	91.7	102.5	90.9	0.436	0.399	0.252	0.346	-0.0018

R_f 91.7
Fidelity index R_f

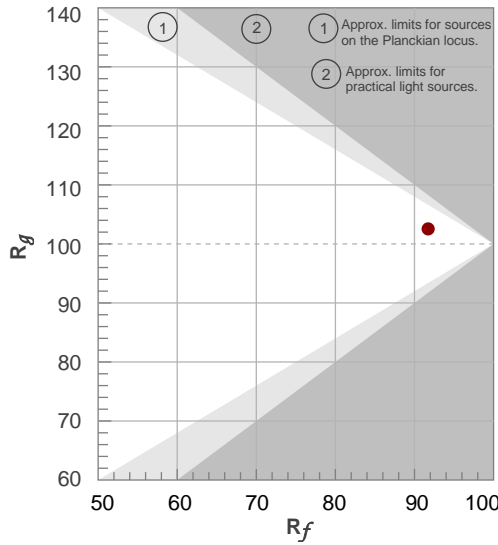
R_g 102.5
Gammut index R_g

TM30: 91.7

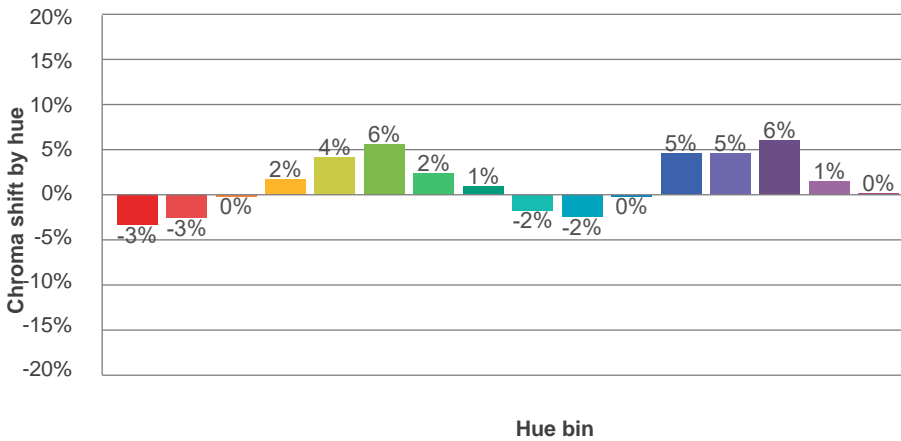
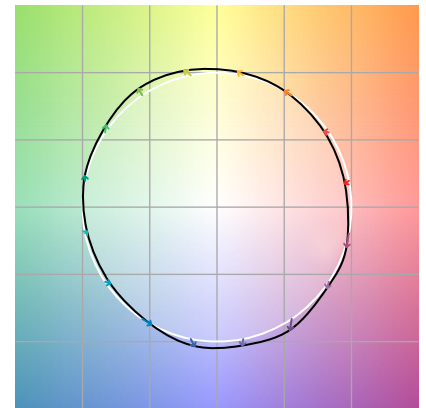
TM-30Color



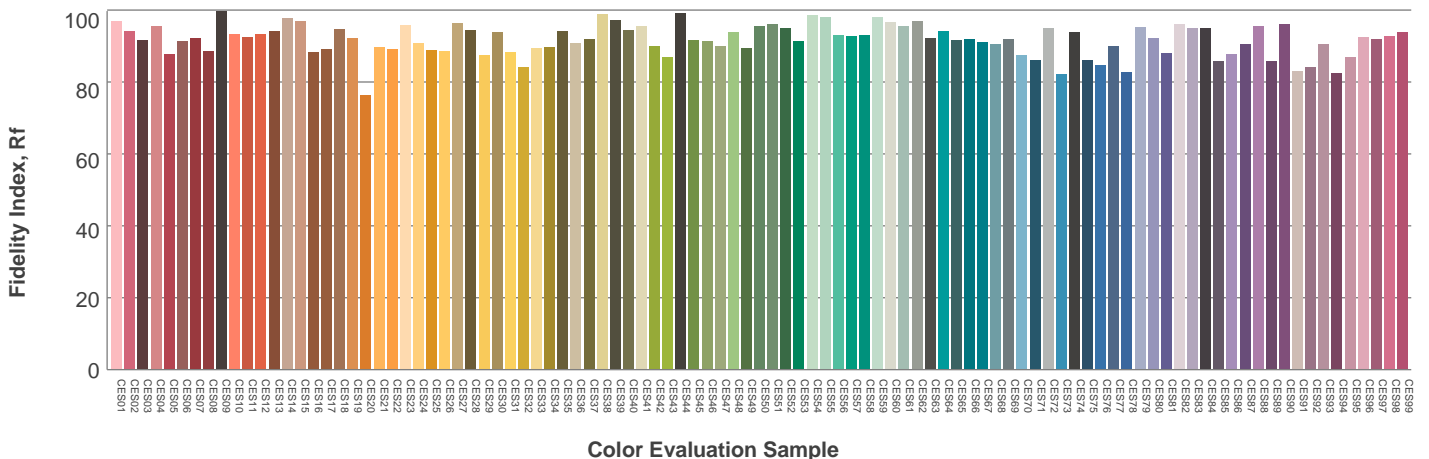
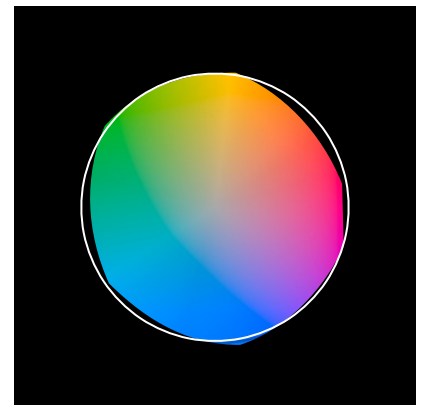
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-5%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	92	1%	-4%
16	87	0%	-10%



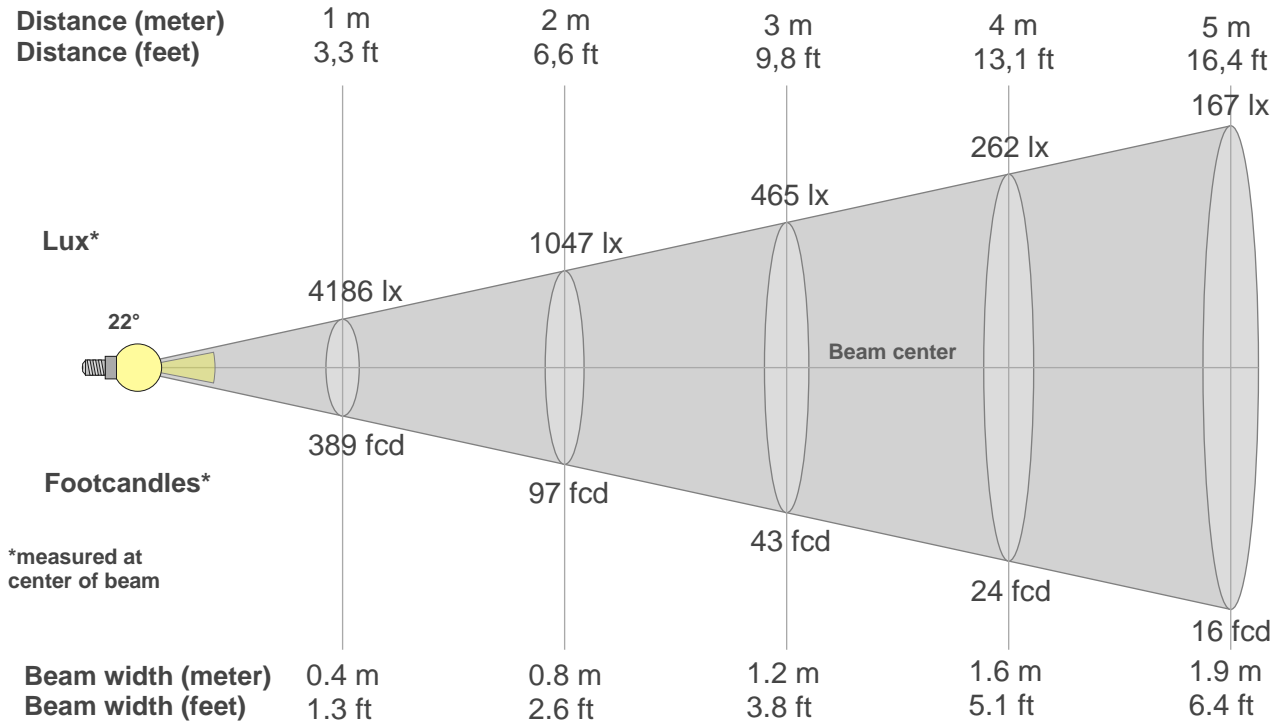
Color vector graphics



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
4186lx	1047lx	465lx	262lx	167lx	116lx	85lx	65lx	52lx	42lx	35lx	29lx	25lx	21lx	19lx	16lx	14lx	13lx	12lx	10lx
388.9fcd	97.2fcd	43.2fcd	24.3fcd	15.6fcd	10.8fcd	7.9fcd	6.1fcd	4.8fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	1fcd

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°
4186	4150	4105	4008	3872	3720	3489	3257	2977	2680	2384	2089	1793	1551	1314	1102	913	727	556	386
100%	99%	98%	96%	92%	89%	83%	78%	71%	64%	57%	50%	43%	37%	31%	26%	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°
4186	4145	4102	4010	3867	3717	3481	3245	2970	2676	2383	2093	1803	1551	1307	1085	892	699	526	353
100%	99%	98%	96%	92%	89%	83%	78%	71%	64%	57%	50%	43%	37%	31%	26%	21%	17%	13%	8%

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°
4186	4132	4071	3961	3819	3660	3426	3193	2921	2639	2360	2089	1818	1596	1377	1178	997	818	648	479
100%	99%	97%	95%	91%	87%	82%	76%	70%	63%	56%	50%	43%	38%	33%	28%	24%	20%	15%	11%

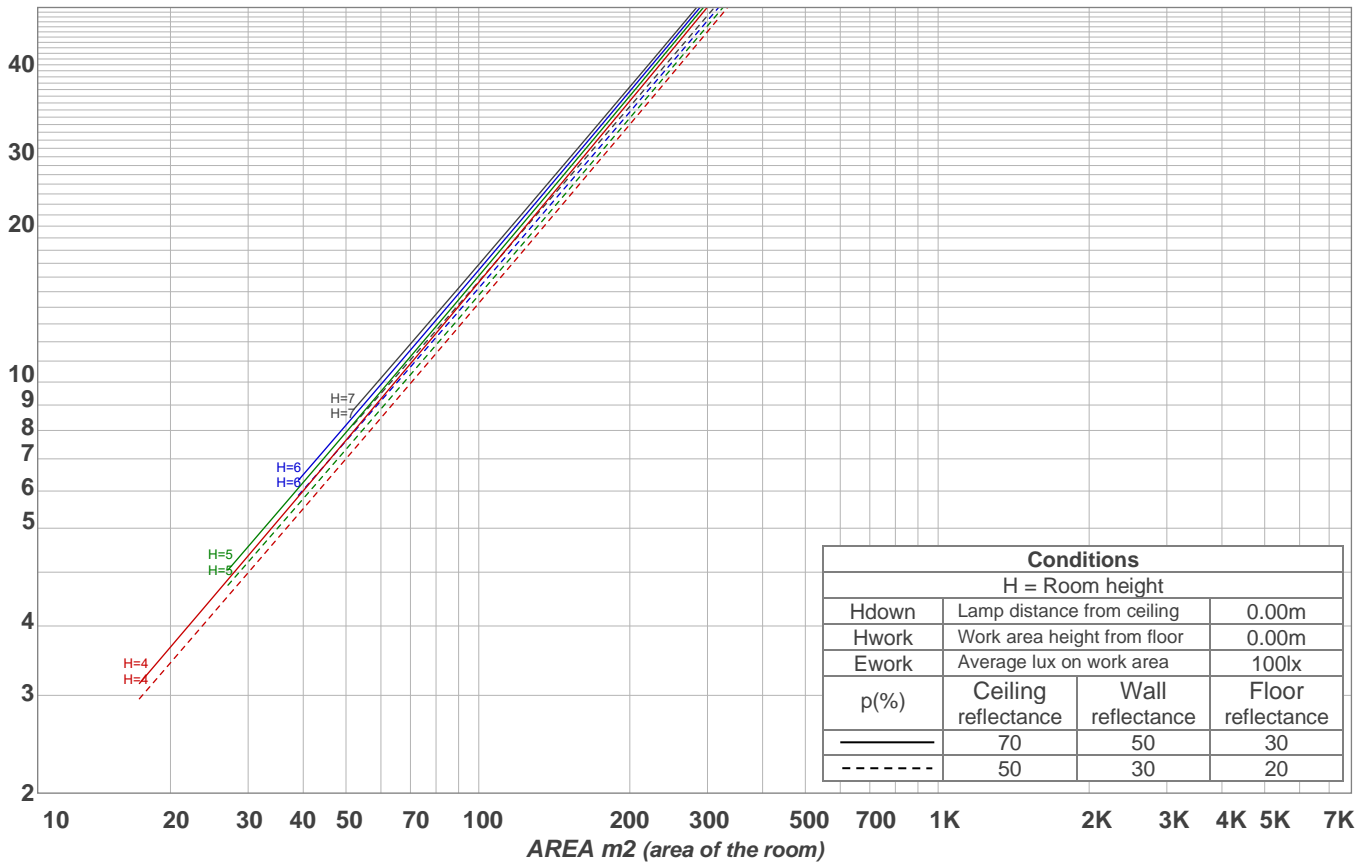
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
4186	4121	4064	3949	3808	3642	3415	3187	2916	2638	2363	2093	1824	1594	1365	1165	982	805	649	494
100%	98%	97%	94%	91%	87%	82%	76%	70%	63%	56%	50%	44%	38%	33%	28%	23%	19%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22°	38.2°	43.6°	98.8%	98.4%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
307 lm	308 lm	21.8 lm	4.19 lm	1.55 lm	1.72 lm	2.28 lm	2.53 lm	2.95 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