

Light efficiency:



Output: 672 lm

Light quality:

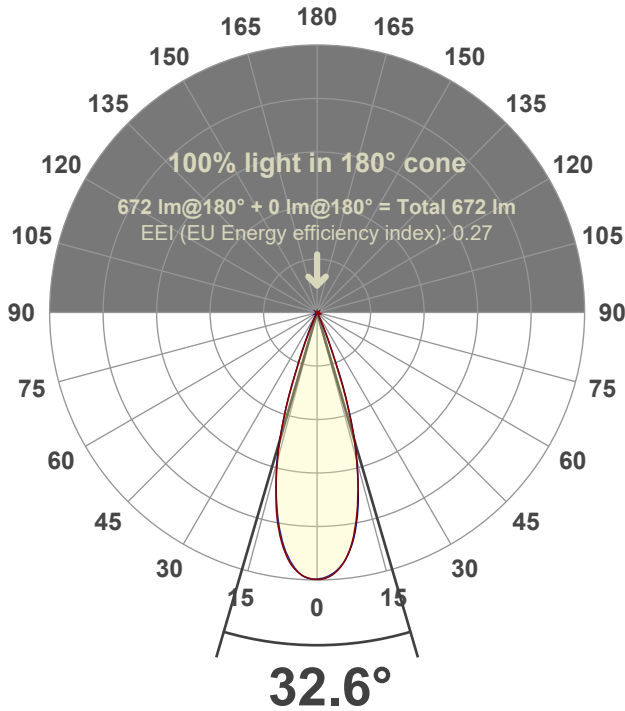


Peak: 2481 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-3022-FL-SQ-Rev2

Luminaire Model:

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

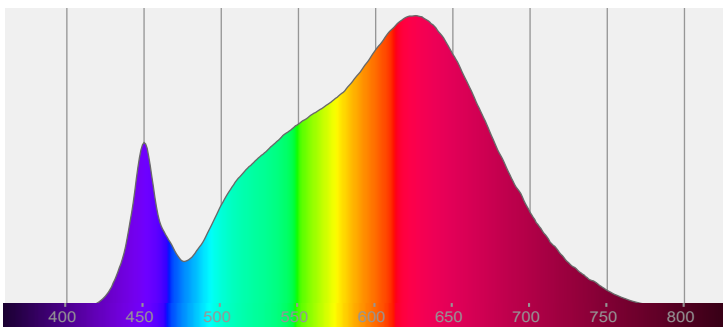
Date and time:

6/30/2022 4:51:09 PM

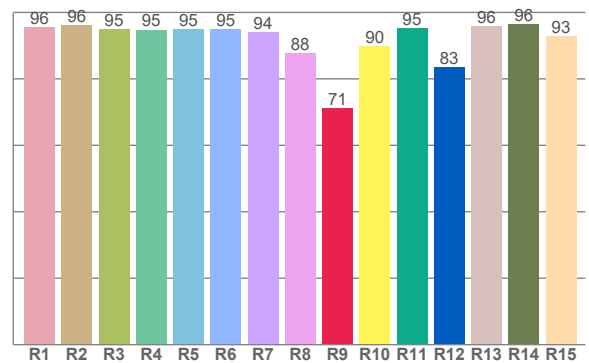
Delivered Lumens

672

Spectra



CRI: 94.1 (R1-R8)



Color parameters

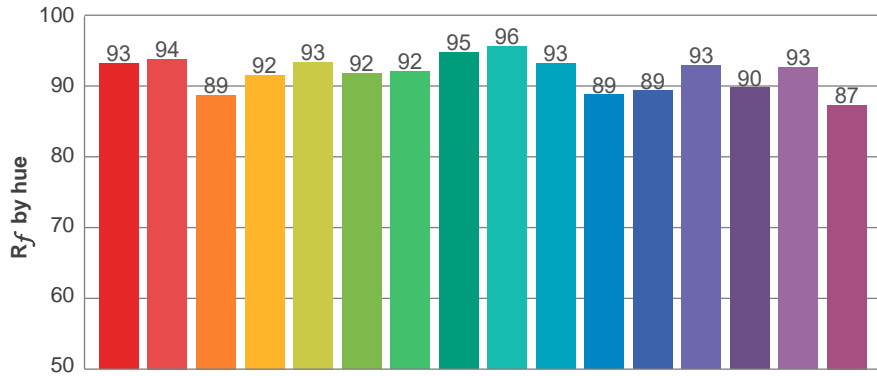
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.1	71.2	91.8	102.5	91.0	0.435	0.399	0.252	0.346	-0.0018

R_f 91.8
Fidelity index R_f

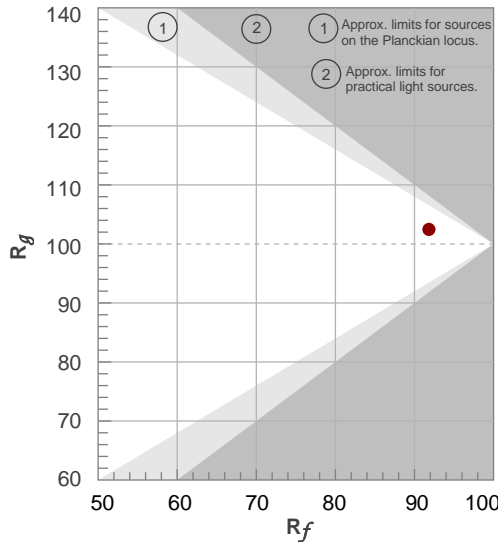
R_g 102.5
Gammut index R_g

TM30: 91.8

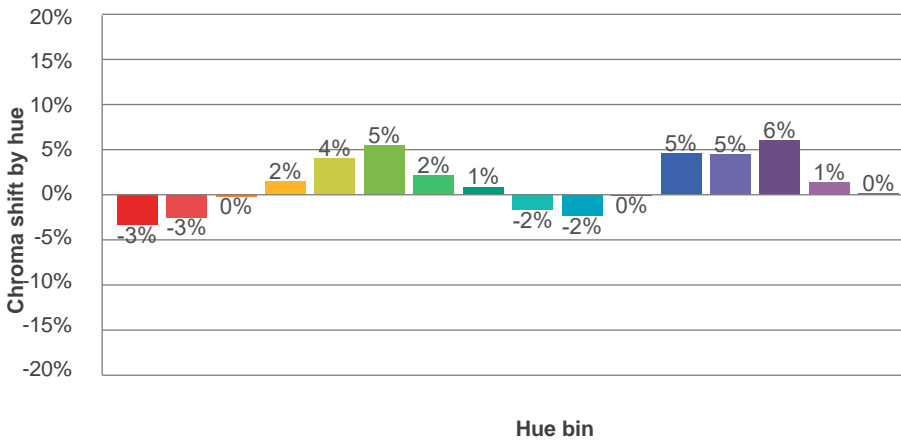
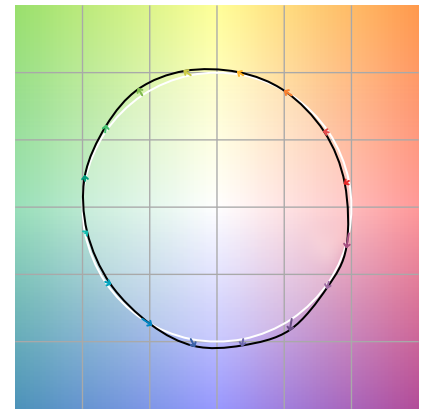
TM-30Color



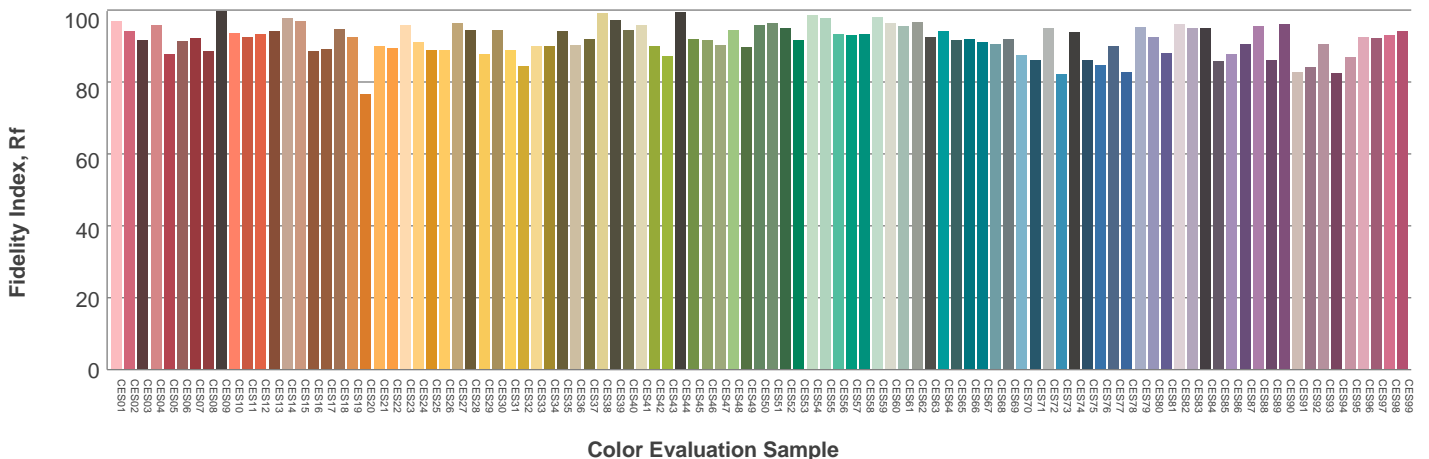
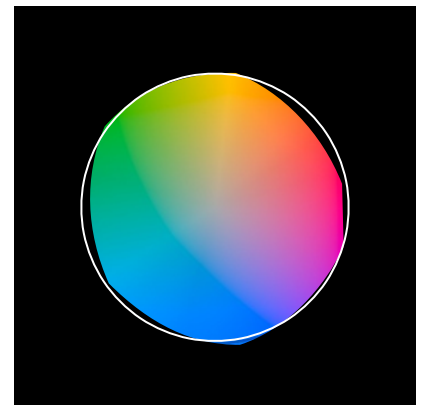
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	92	2%	4%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



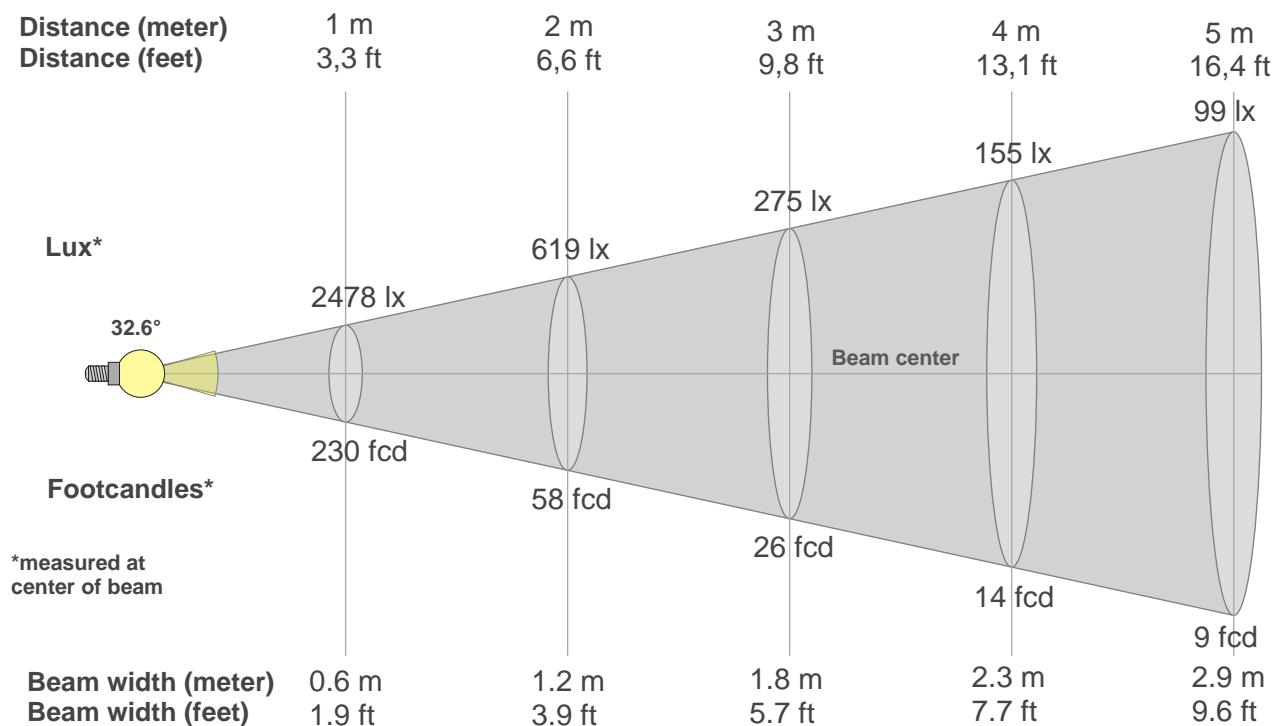
Color vector graphics



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
2478lx	619lx	275lx	155lx	99lx	69lx	51lx	39lx	31lx	25lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
230.2fcd	57.6fcd	25.6fcd	14.4fcd	9.2fcd	6.4fcd	4.7fcd	3.6fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2478	2466	2424	2342	2209	2030	1812	1563	1287	949	605	327	156	75	37	18	9	5	5	3
100%	100%	98%	95%	89%	82%	73%	63%	52%	38%	24%	13%	6%	3%	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°
2478	2461	2415	2334	2215	2050	1836	1569	1286	969	624	283	120	52	23	12	8	5	4	3
100%	99%	97%	94%	89%	83%	74%	63%	52%	39%	25%	11%	5%	2%	1%	0%	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°
2478	2467	2428	2348	2218	2047	1832	1570	1284	957	607	301	116	53	25	12	8	6	5	4
100%	100%	98%	95%	90%	83%	74%	63%	52%	39%	24%	12%	5%	2%	1%	1%	0%	0%	0%	0%

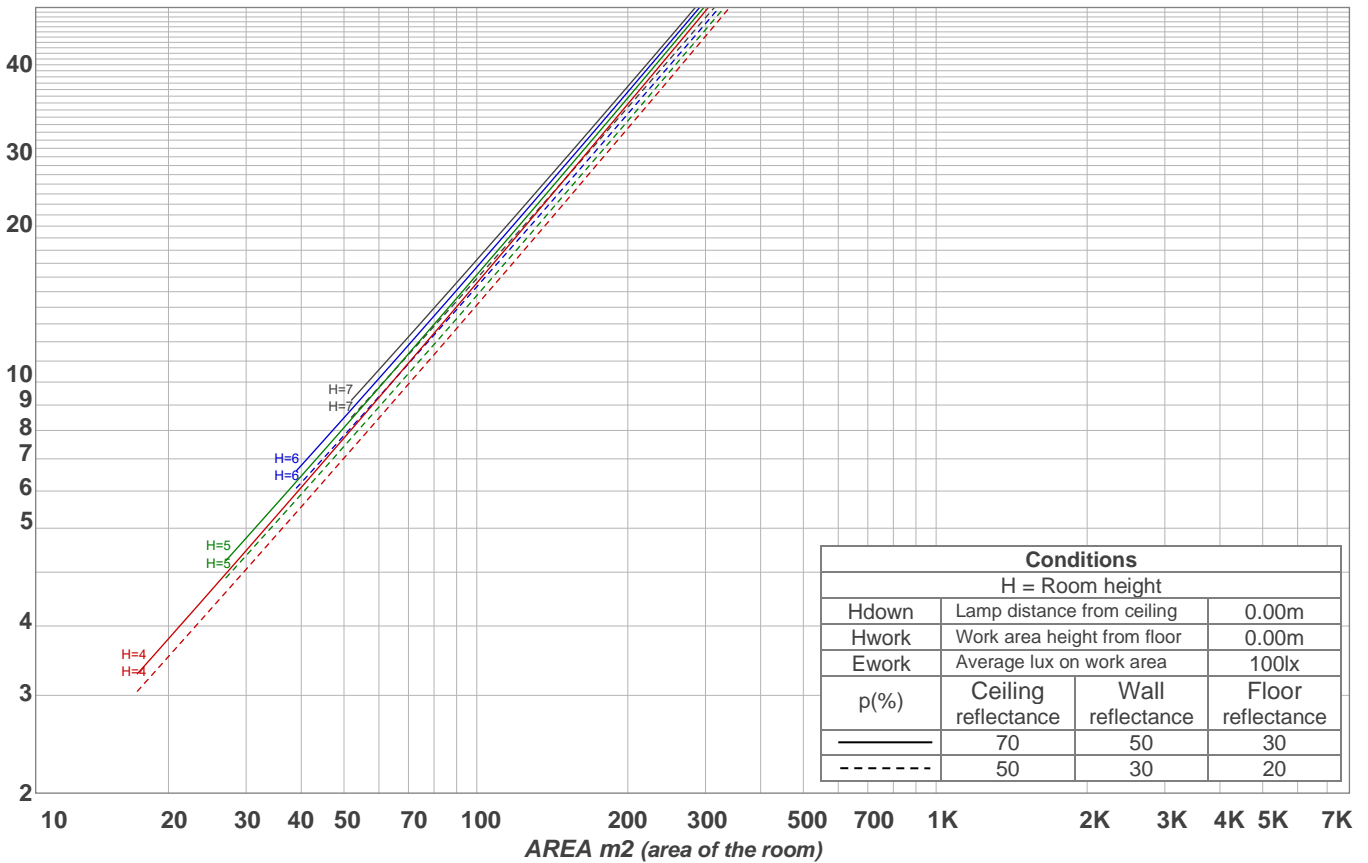
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2478	2466	2419	2331	2204	2024	1810	1570	1296	950	589	341	184	91	38	17	9	6	4	3
100%	100%	98%	94%	89%	82%	73%	63%	52%	38%	24%	14%	7%	4%	2%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.6°	45.4°	52.5°	98.9%	98.6%

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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	93	93	
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	90	90	90	
4	105	99	95	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88	
5	102	96	92	89	100	95	91	89	93	90	88	92	89	87	91	88	86	85	85	85	
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	88	86	84	83	83	83	
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81	
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77	
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75	75	75	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
217 lm	374 lm	67.1 lm	3.40 lm	1.36 lm	1.62 lm	1.90 lm	2.16 lm	2.78 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