

Light efficiency:



Output: 674 lm

Light quality:

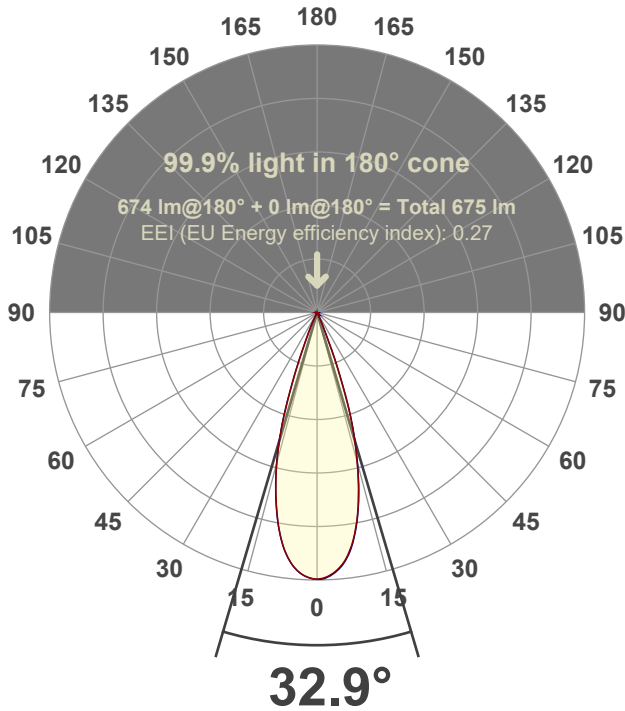


Peak: 2445 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-FL-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-2722 38° Optic

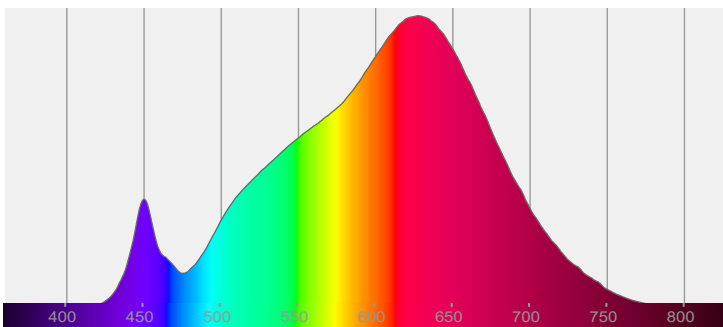
Date and time:

6/30/2022 6:17:53 PM

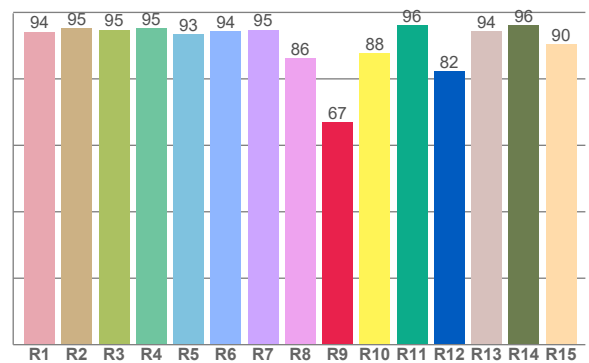
Delivered Lumens

674

Spectra



CRI: 93.5 (R1-R8)



Color parameters

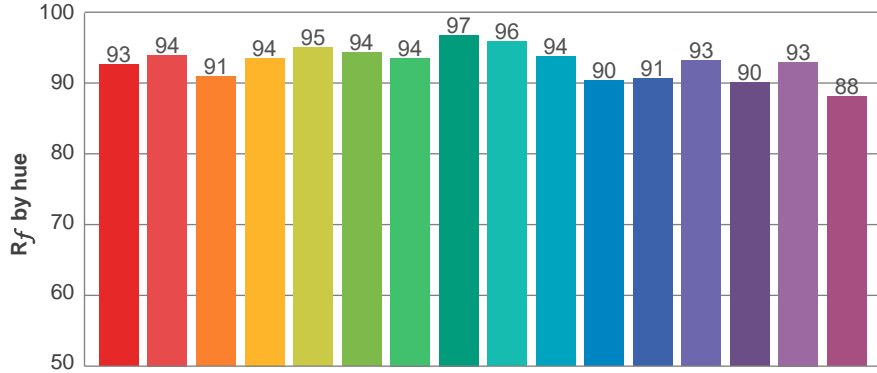
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.5	66.9	92.8	100.6	91.5	0.458	0.414	0.260	0.352	0.0014

R_f 92.8
Fidelity index R_f

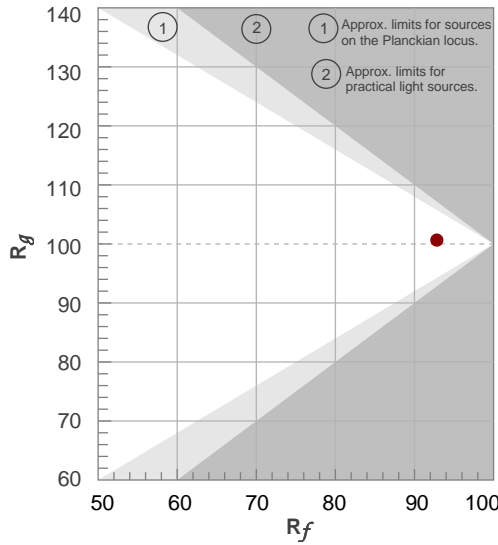
R_g 100.6
Gammut index R_g

TM30: 92.8

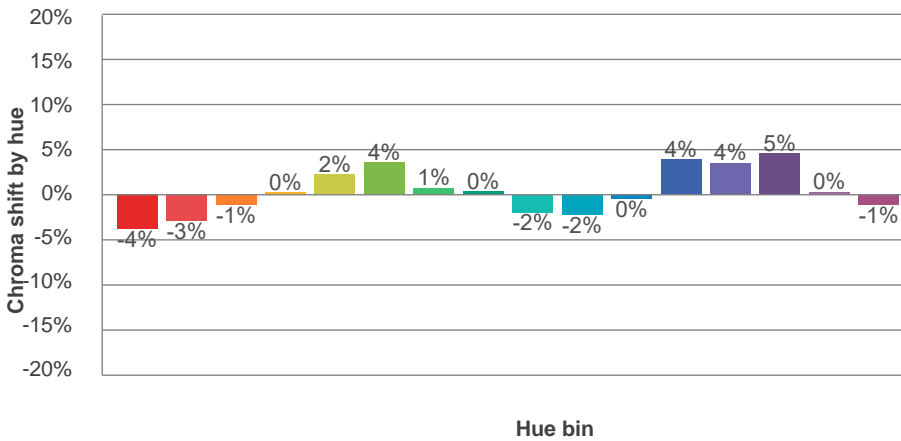
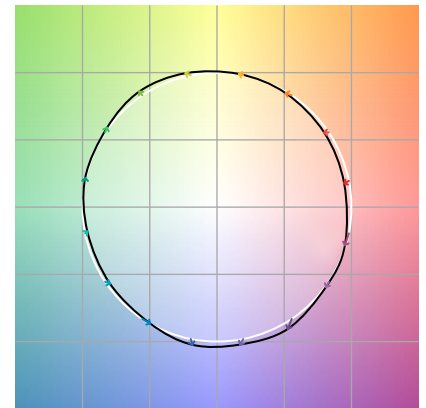
TM-30Color



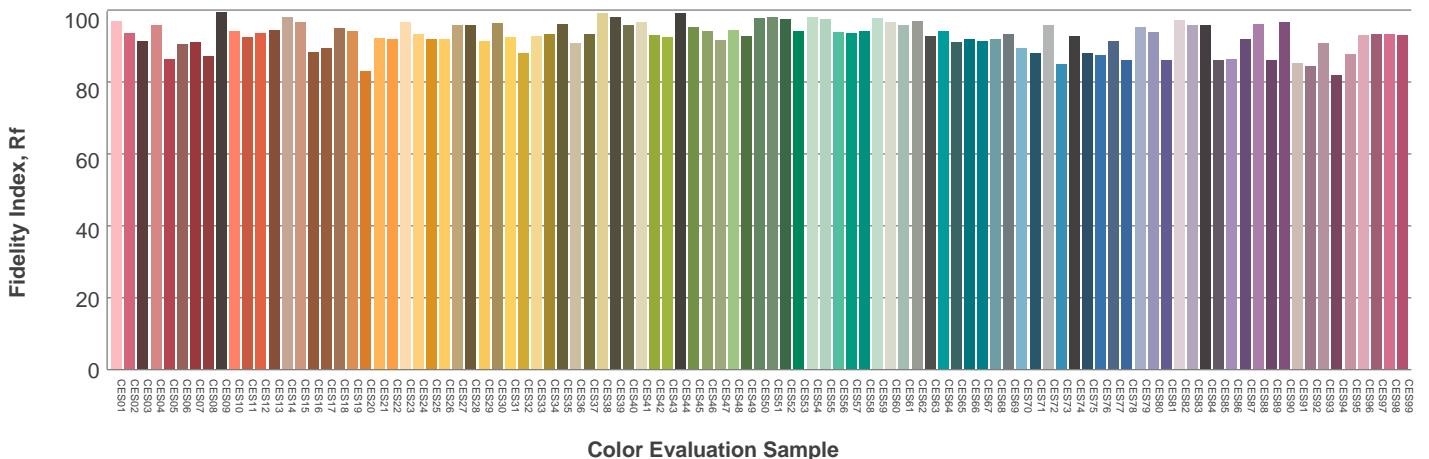
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	94	0%	3%
5	95	2%	4%
6	94	4%	0%
7	94	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	0%	7%
12	91	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



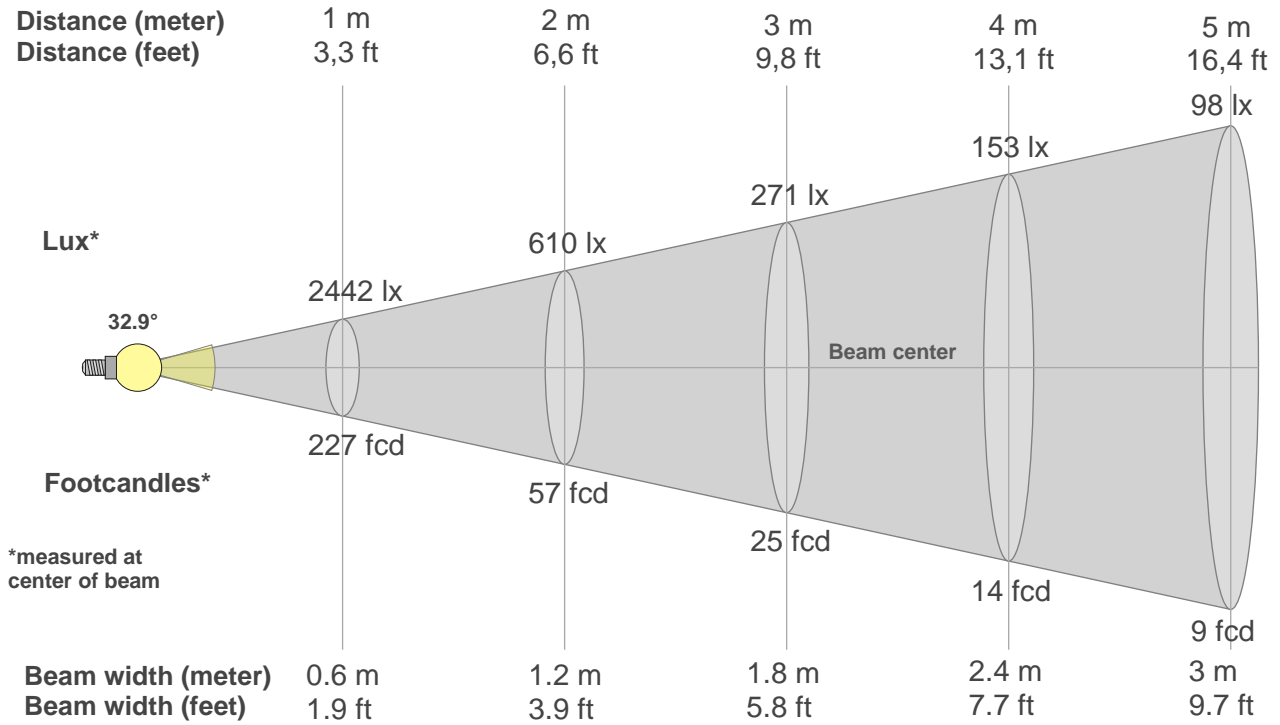
Color vector graphics



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
2442lx	610lx	271lx	153lx	98lx	68lx	50lx	38lx	30lx	24lx	20lx	17lx	14lx	12lx	11lx	10lx	8lx	8lx	7lx	6lx
226.8fcd	56.7fcd	25.2fcd	14.2fcd	9.1fcd	6.3fcd	4.6fcd	3.5fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.3fcd	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°
2442	2426	2380	2303	2183	2018	1809	1559	1284	980	636	328	126	50	24	13	8	6	5	4
100%	99%	97%	94%	89%	83%	74%	64%	53%	40%	26%	13%	5%	2%	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°
2442	2429	2386	2315	2198	2027	1817	1570	1290	986	607	296	130	57	26	13	9	7	5	4
100%	99%	98%	95%	90%	83%	74%	64%	53%	40%	25%	12%	5%	2%	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°
2442	2426	2381	2302	2183	2016	1800	1560	1286	966	618	319	173	86	39	17	9	6	5	5
100%	99%	98%	94%	89%	83%	74%	64%	53%	40%	25%	13%	7%	4%	2%	1%	0%	0%	0%	0%

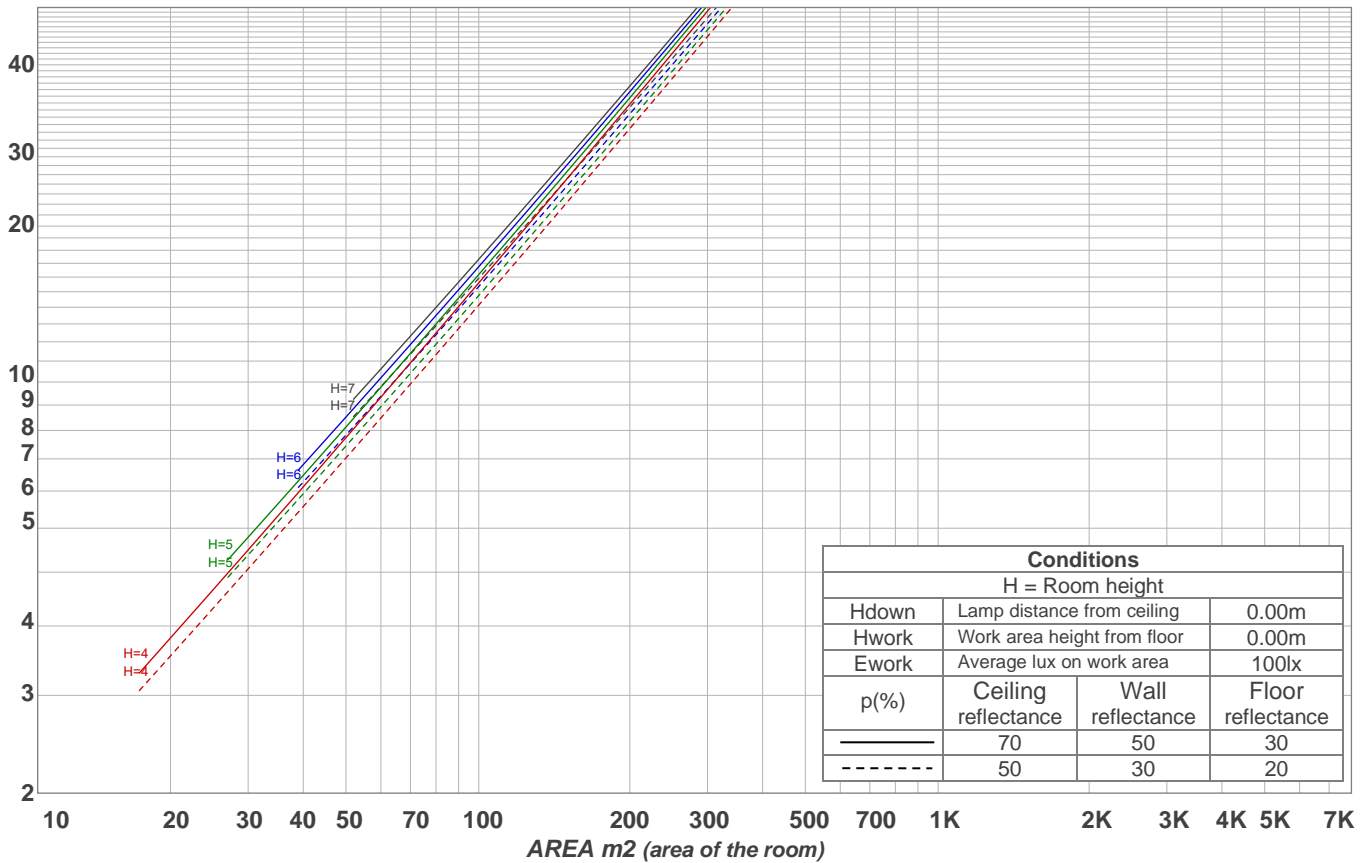
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2442	2425	2384	2307	2181	2010	1803	1564	1294	978	606	328	163	81	37	16	10	7	6	4
100%	99%	98%	94%	89%	82%	74%	64%	53%	40%	25%	13%	7%	3%	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
32.9°	45.3°	52.5°	98.7%	98.2%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
214 lm	374 lm	69.7 lm	4.11 lm	1.79 lm	2.33 lm	2.62 lm	3.01 lm	3.00 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