

Light efficiency:



Output: 652 lm

Light quality:

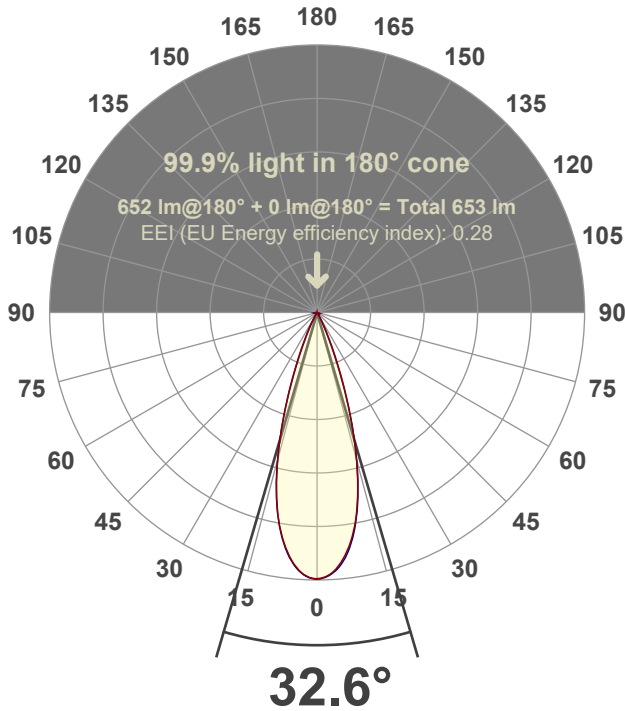


Peak: 2135 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-FL-SQ-91A-Rev2

Luminaire Model:

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

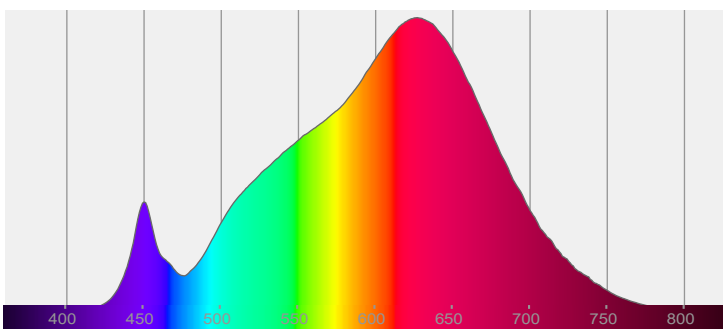
Date and time:

6/30/2022 6:15:31 PM

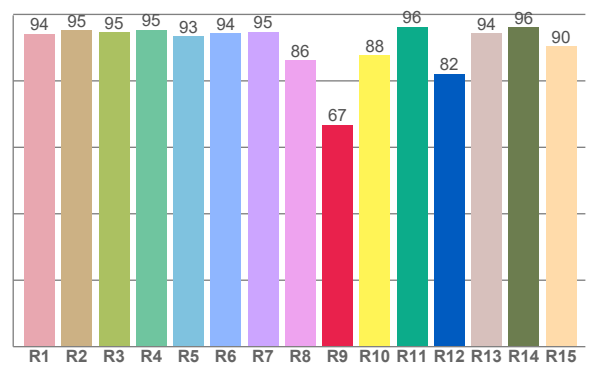
Delivered Lumens

652

Spectra



CRI: 93.5 (R1-R8)



Color parameters

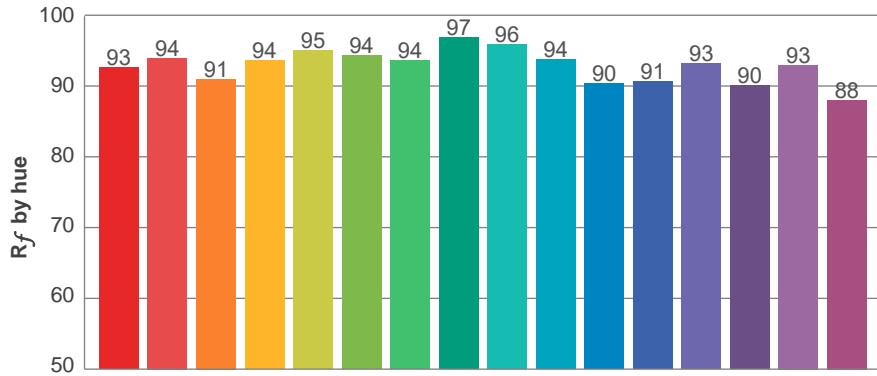
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.5	66.8	92.8	100.6	91.5	0.458	0.414	0.260	0.352	0.0015

R_f 92.8
Fidelity index R_f

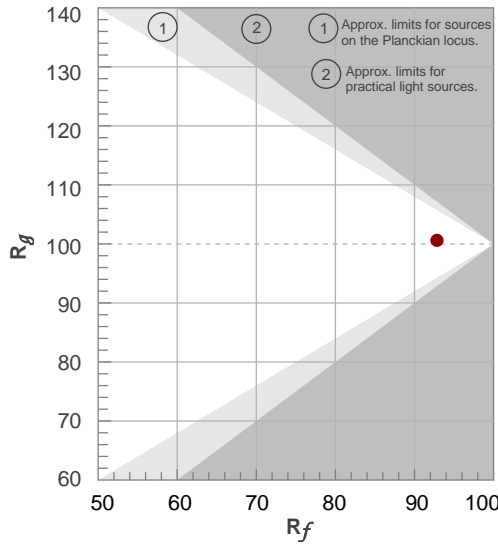
R_g 100.6
Gammut index R_g

TM30: 92.8

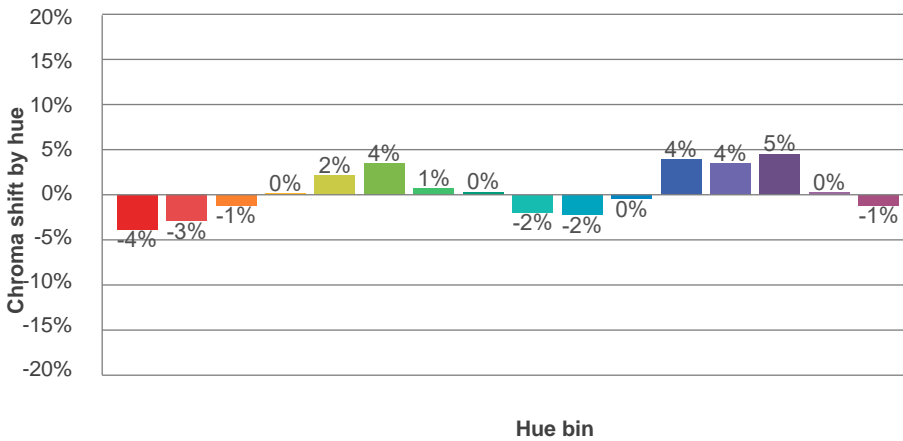
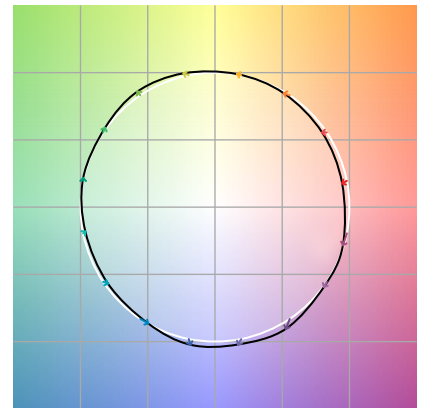
TM-30Color



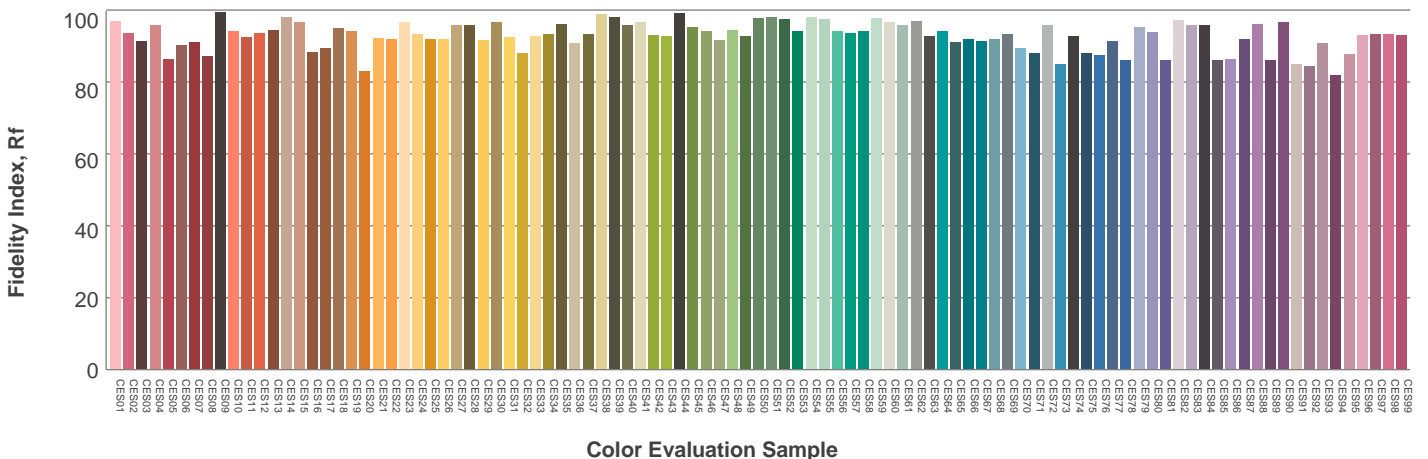
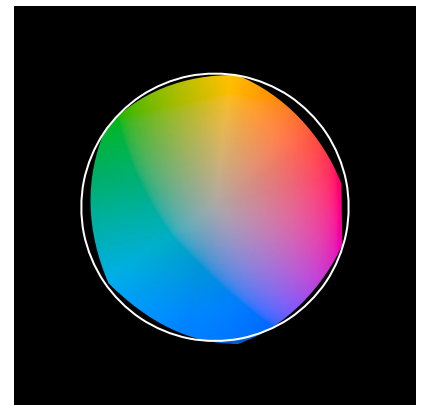
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	94	0%	3%
5	95	2%	4%
6	94	4%	0%
7	94	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	0%	7%
12	91	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



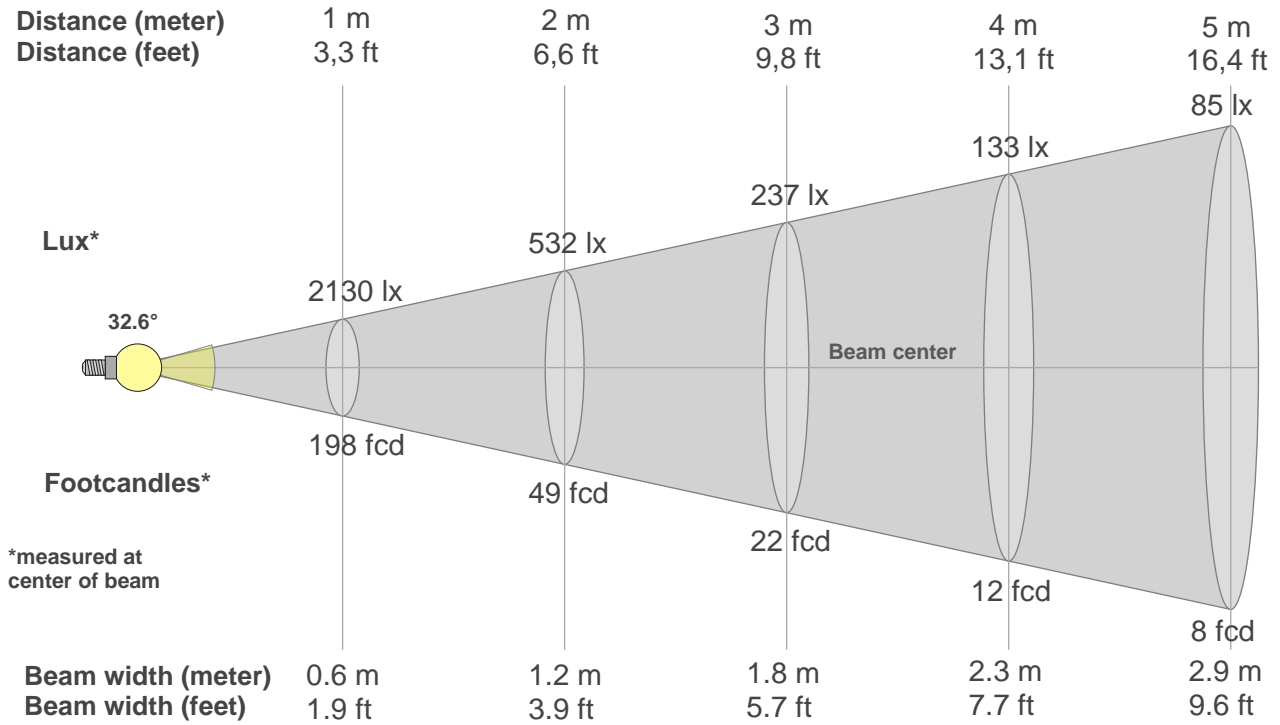
Color vector graphics



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
2130lx	532lx	237lx	133lx	85lx	59lx	43lx	33lx	26lx	21lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	7lx	6lx	5lx
197.9fcd	49.5fcd	22fcd	12.4fcd	7.9fcd	5.5fcd	4fcd	3.1fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	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°
2130	2109	2063	1985	1873	1729	1549	1337	1105	863	631	434	282	175	104	60	34	23	16	12
100%	99%	97%	93%	88%	81%	73%	63%	52%	41%	30%	20%	13%	8%	5%	3%	2%	1%	1%	1%

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°
2130	2116	2071	1997	1888	1744	1563	1345	1104	851	608	397	237	135	77	46	29	19	14	10
100%	99%	97%	94%	89%	82%	73%	63%	52%	40%	29%	19%	11%	6%	4%	2%	1%	1%	1%	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°
2130	2112	2066	1987	1873	1729	1547	1336	1105	865	634	443	297	190	117	70	42	28	19	14
100%	99%	97%	93%	88%	81%	73%	63%	52%	41%	30%	21%	14%	9%	5%	3%	2%	1%	1%	1%

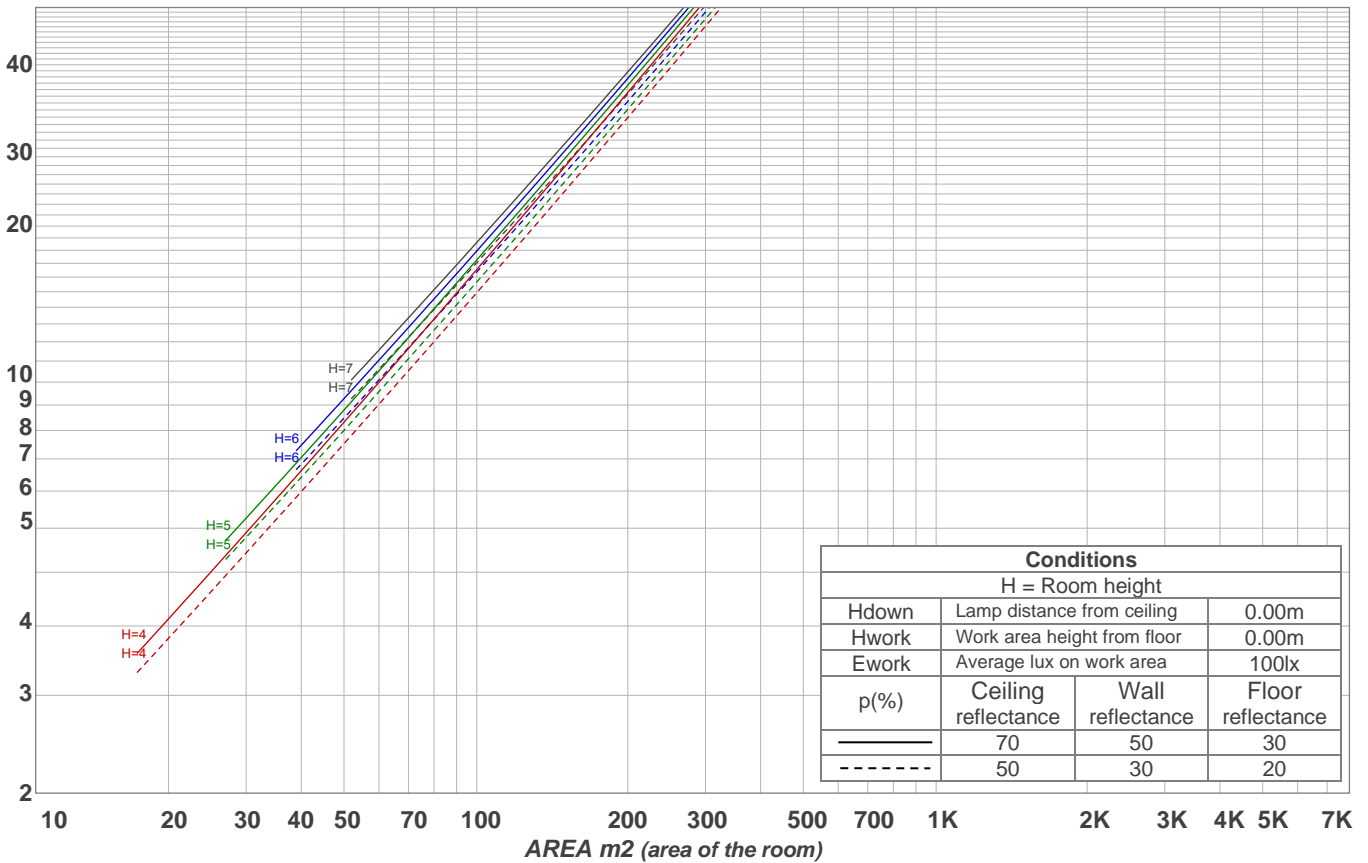
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2130	2118	2070	1990	1878	1733	1556	1346	1104	855	617	412	256	151	91	55	35	23	16	12
100%	99%	97%	93%	88%	81%	73%	63%	52%	40%	29%	19%	12%	7%	4%	3%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.6°	49.9°	60.6°	98.2%	97.4%

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	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	102	98	95	105	100	97	94	98	95	92	96	93	91	93	91	90	88	88	88	
4	103	97	93	90	102	96	92	89	94	91	88	92	90	87	91	88	86	85	85	85	
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82	82	82	
6	97	90	86	82	95	89	85	82	88	84	82	87	84	81	86	83	81	80	80	80	
7	94	87	83	79	93	86	82	79	85	82	79	84	81	78	83	80	78	77	77	77	
8	91	84	80	77	90	84	79	77	83	79	76	82	78	76	81	78	76	75	75	75	
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72	72	72	
10	86	79	75	72	85	79	75	72	78	74	72	77	74	71	77	74	71	70	70	70	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
185 lm	325 lm	109 lm	14.1 lm	4.42 lm	3.81 lm	3.82 lm	3.90 lm	3.41 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