

Light efficiency:



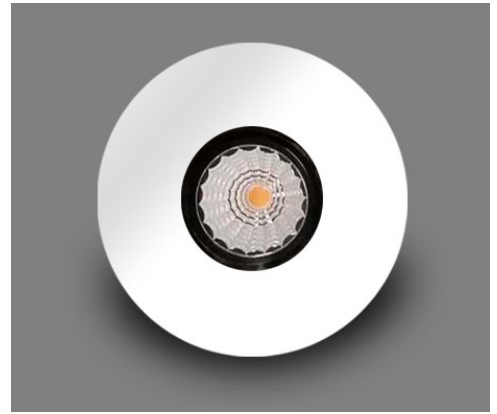
Output: 669 lm

Light quality:

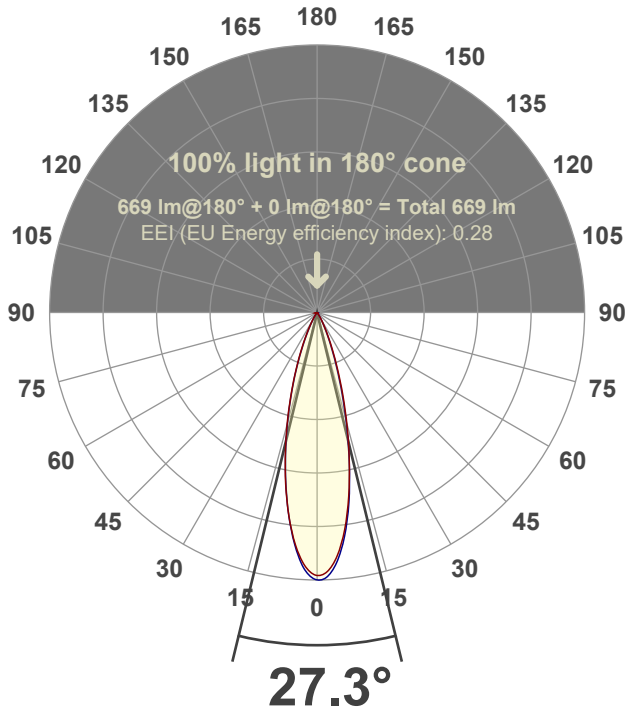


Peak: 2499 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-NF-RD-91A-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-2722 24° Optic-Solite

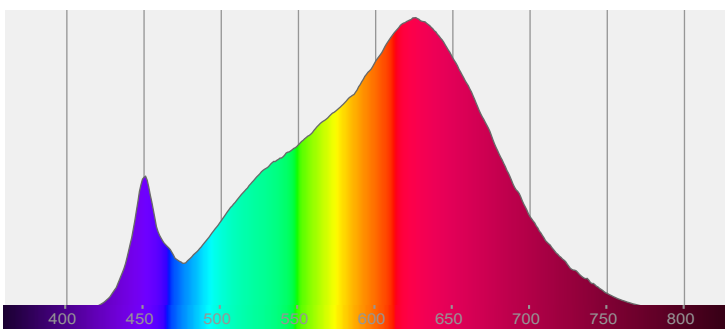
Date and time:

3/24/2022 7:13:22 PM

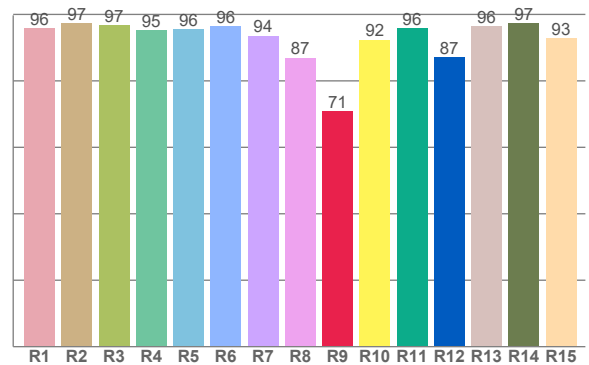
Delivered Lumens

669

Spectra



CRI: 94.7 (R1-R8)



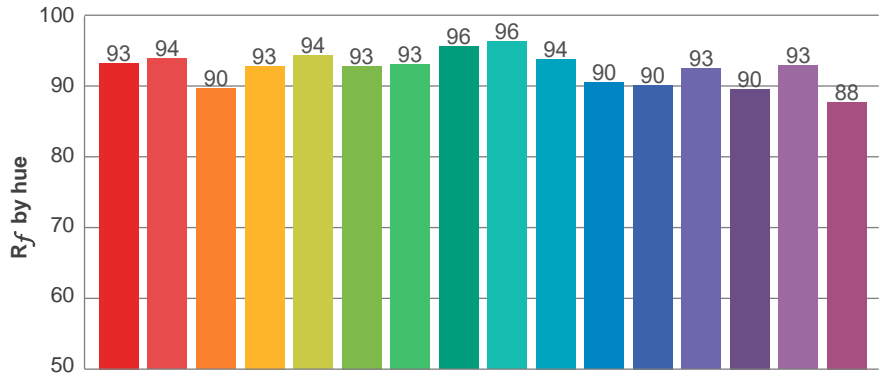
Color parameters

	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
	94.7	70.9	92.5	102.0	91.3	0.447	0.402	0.258	0.348	-0.0020

R_f 92.5
Fidelity index R_f

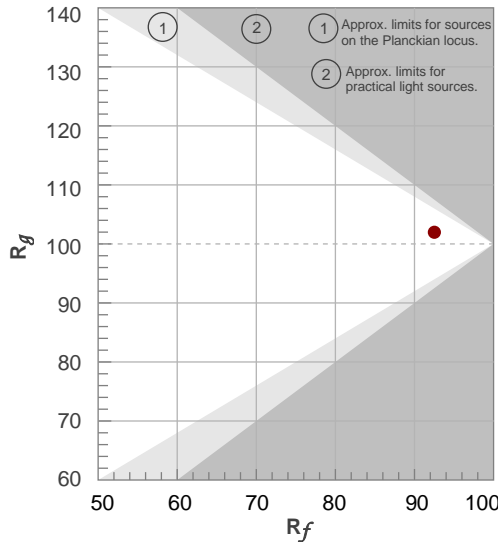
R_g 102.0
Gammut index R_g

TM30: 92.5

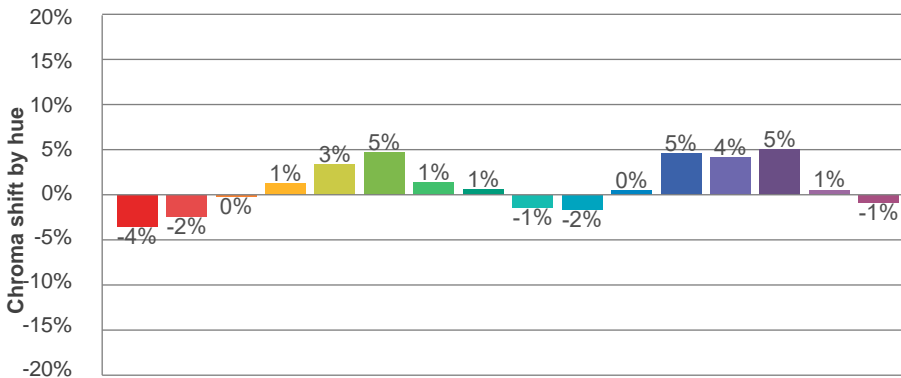
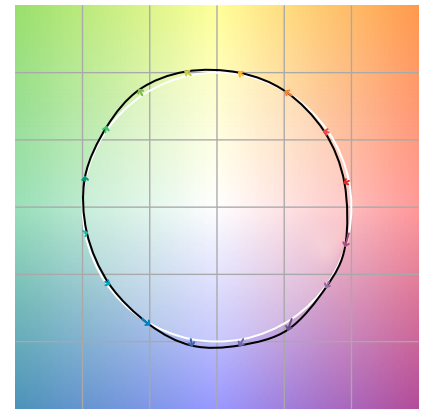


TM-30Color

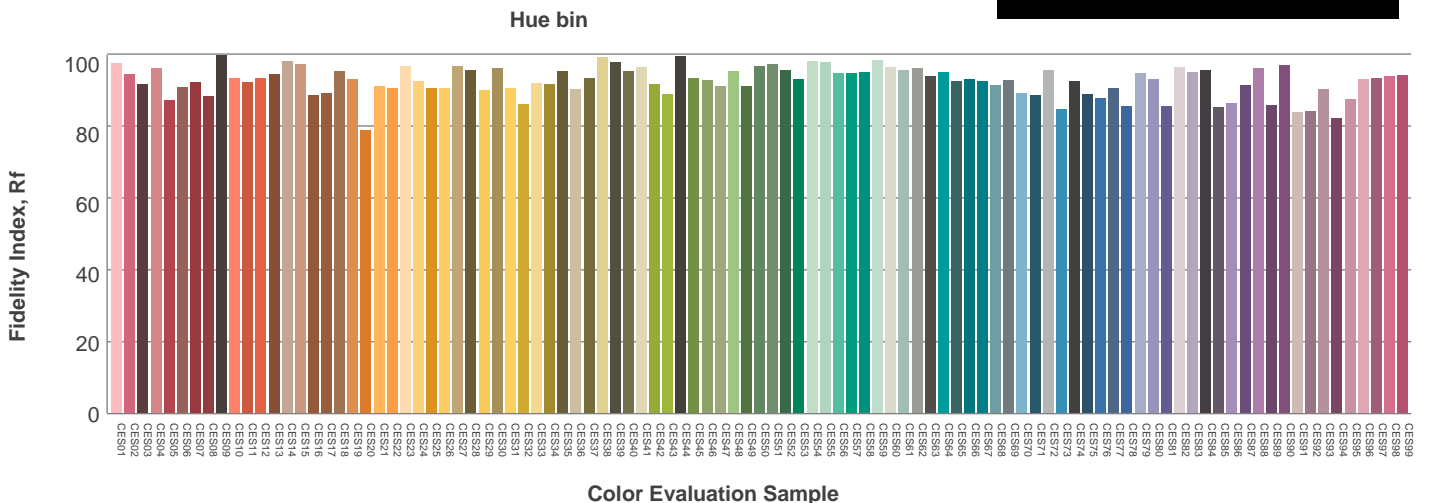
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-2%	3%
3	90	0%	5%
4	93	1%	3%
5	94	3%	3%
6	93	5%	0%
7	93	1%	-4%
8	96	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	90	0%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



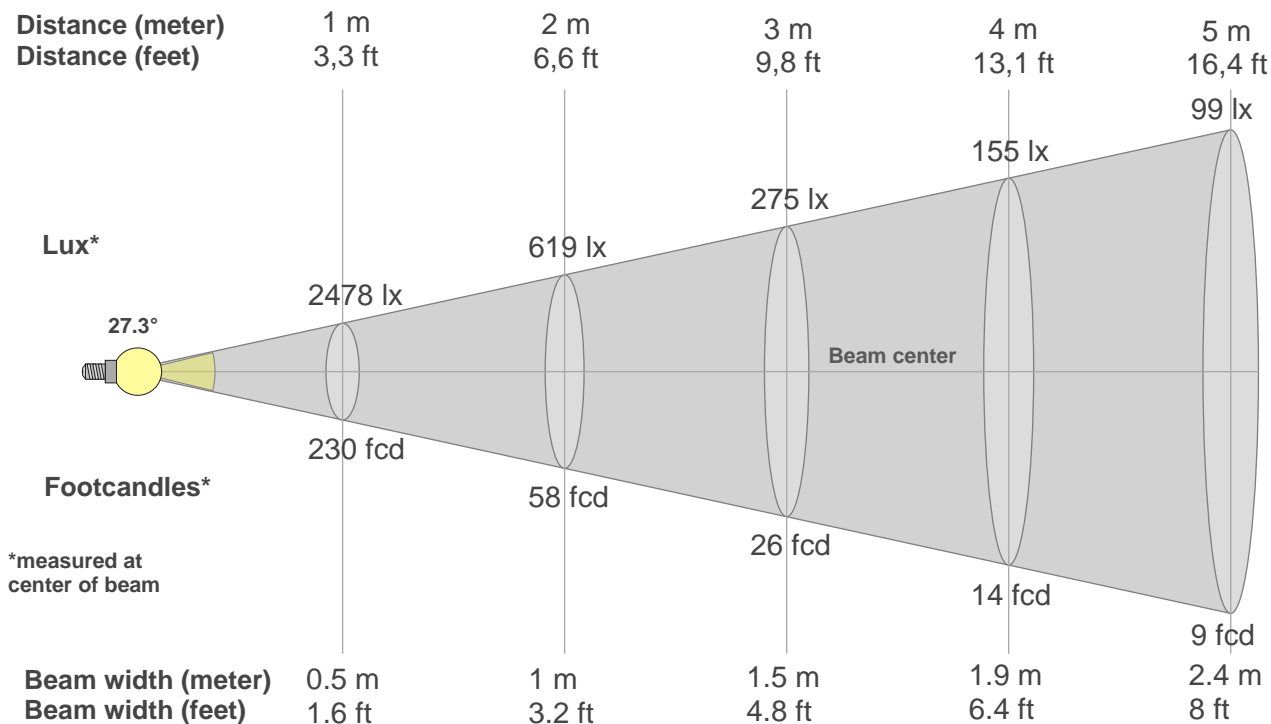
Color vector graphics



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	57.5fcd	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	2434	2330	2169	1962	1720	1459	1206	969	753	562	416	303	215	149	101	73	52	37	27
100%	98%	94%	88%	79%	69%	59%	49%	39%	30%	23%	17%	12%	9%	6%	4%	3%	2%	2%	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°
2478	2484	2377	2209	1993	1739	1458	1184	934	713	527	379	273	192	131	90	65	47	34	25
100%	100%	96%	89%	80%	70%	59%	48%	38%	29%	21%	15%	11%	8%	5%	4%	3%	2%	1%	1%

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	2403	2287	2120	1915	1683	1443	1208	985	776	602	455	334	239	166	117	82	59	42	31
100%	97%	92%	86%	77%	68%	58%	49%	40%	31%	24%	18%	13%	10%	7%	5%	3%	2%	2%	1%

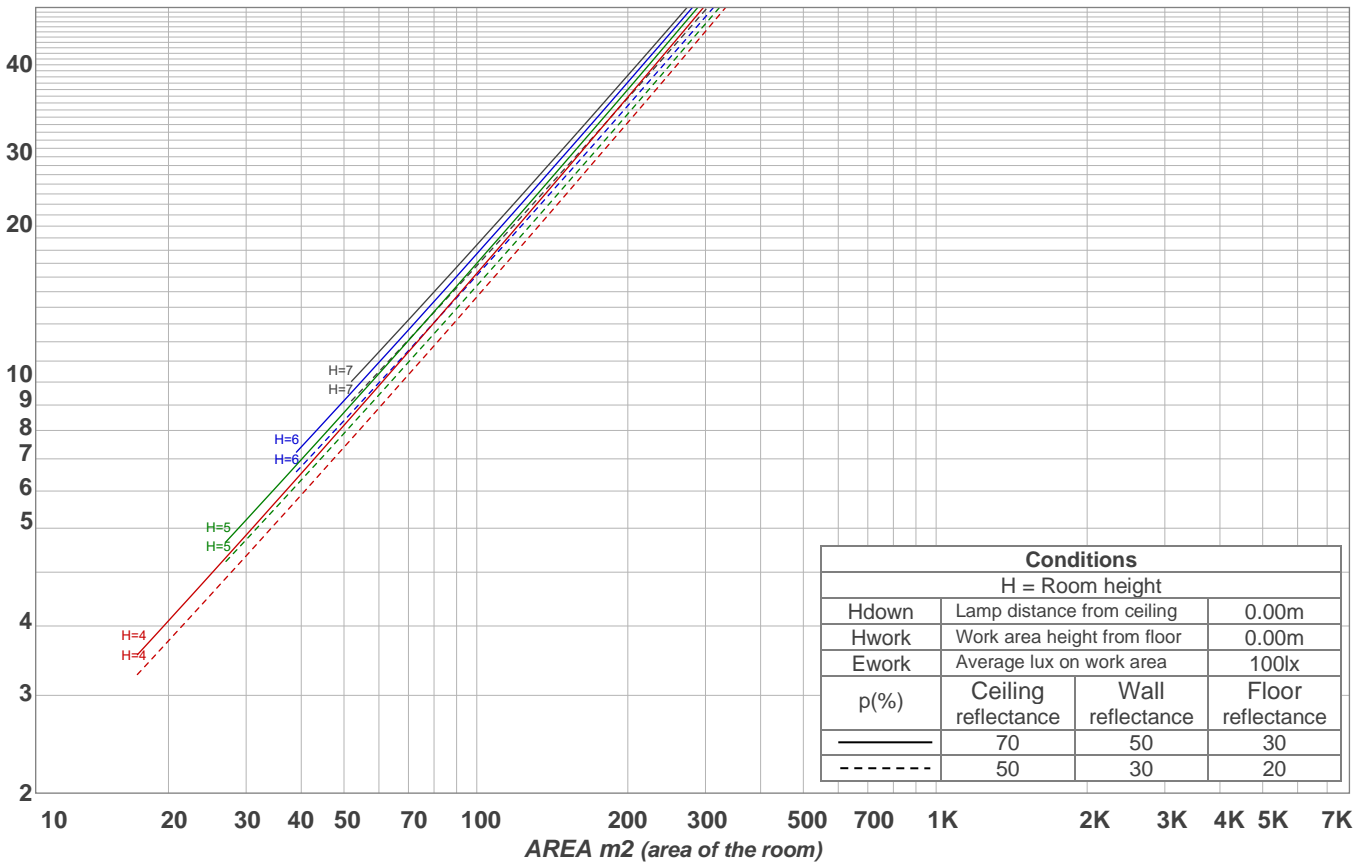
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2478	2439	2315	2134	1915	1674	1432	1194	967	764	587	434	309	212	143	98	68	48	34	25
100%	98%	93%	86%	77%	68%	58%	48%	39%	31%	24%	18%	12%	9%	6%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.3°	50.3°	65.6°	98.2%	97.0%

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	100	
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	88	88	
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84	84	
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	82	81	81	81	
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78	78	78	
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	
8	90	83	78	75	89	82	78	75	82	78	75	81	77	75	80	77	74	73	73	73	
9	87	80	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	
10	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	70	69	69	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
197 lm	293 lm	124 lm	29.6 lm	8.47 lm	5.32 lm	4.93 lm	4.05 lm	2.62 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