

Light efficiency:



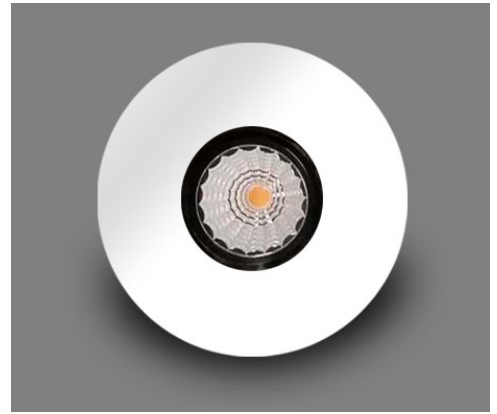
Output: 678 lm

Light quality:

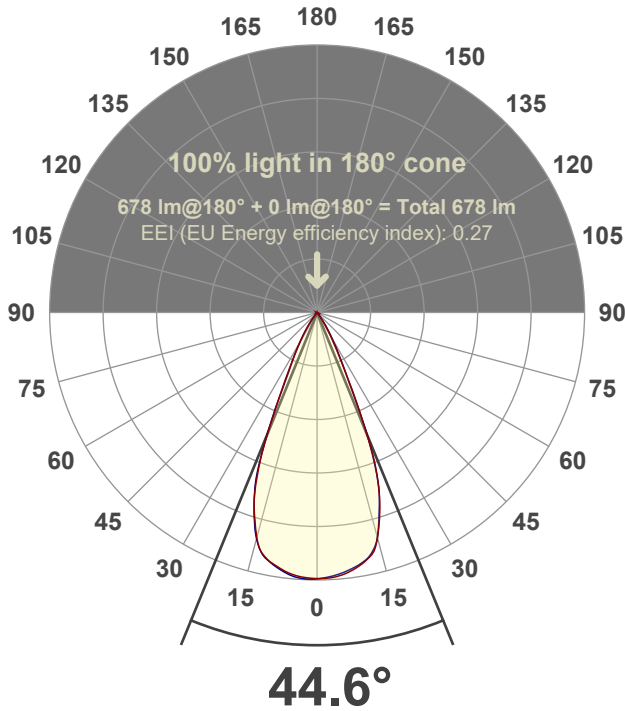


Peak: 1306 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-3022-WF-RD-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-3022 60° Optic

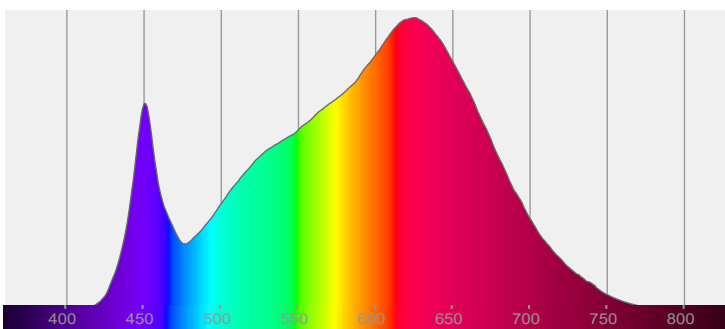
Date and time:

3/24/2022 5:36:58 PM

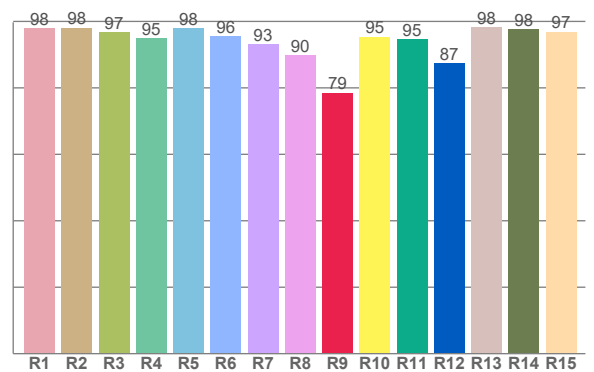
Delivered Lumens

678

Spectra



CRI: 95.5 (R1-R8)



Color parameters

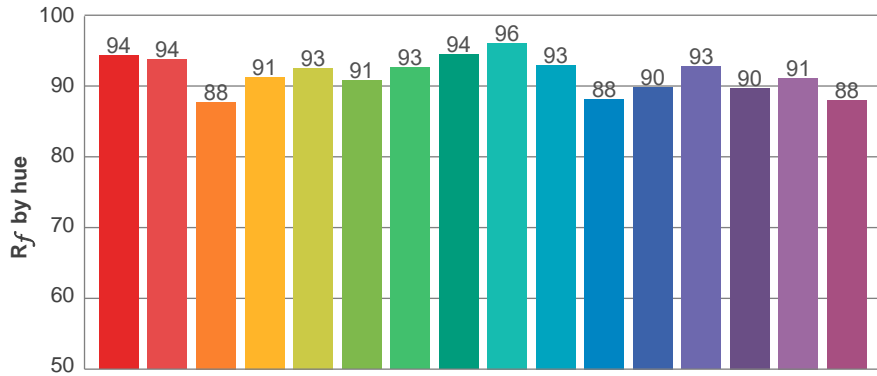
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	95.5	78.5	91.8	103.9	90.7	0.420	0.382	0.249	0.340	-0.0068

R_f 91.8
Fidelity index R_f

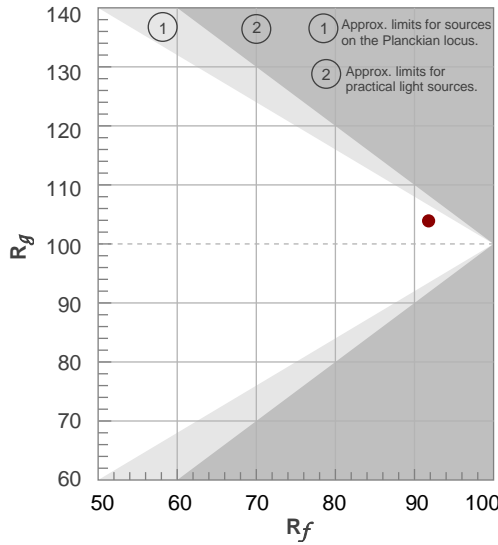
R_g 103.9
Gammut index R_g

TM30: 91.8

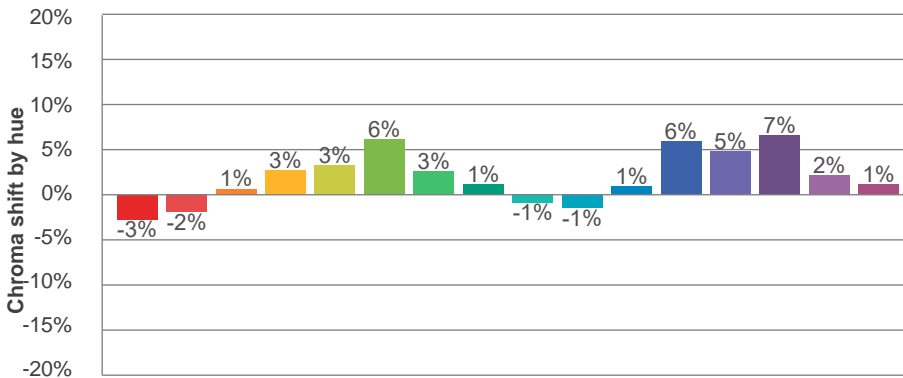
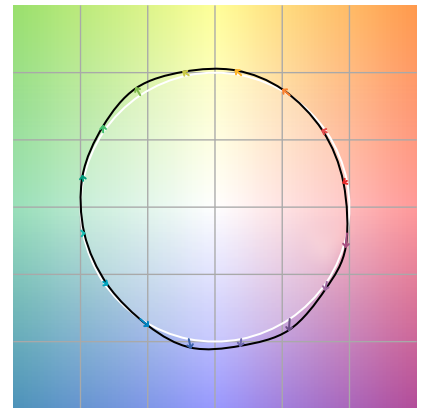
TM-30Color



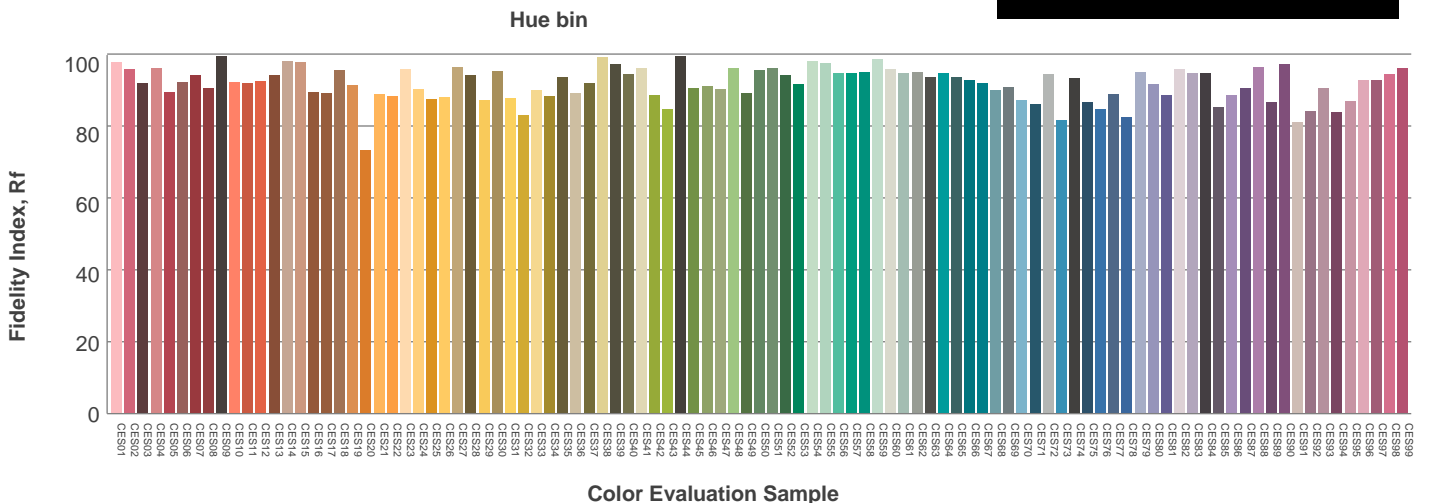
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-1%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	7%	-5%
15	91	2%	-5%
16	88	1%	-10%



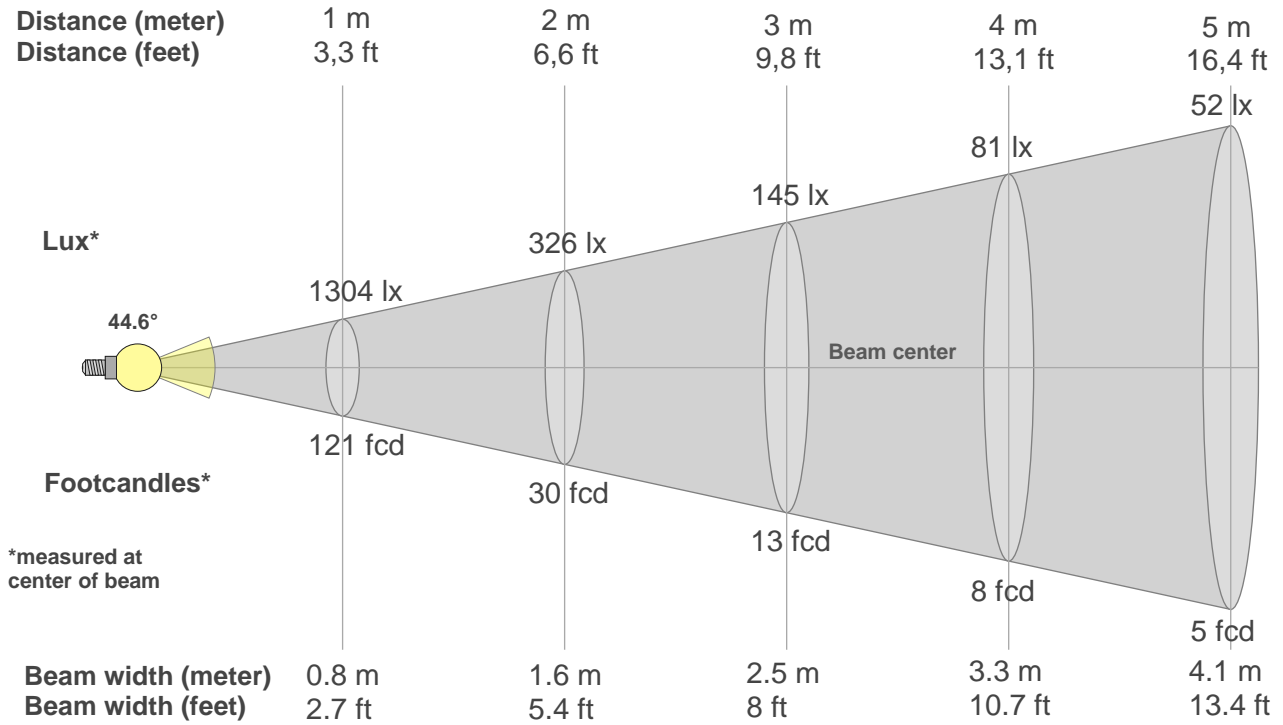
Color vector graphics



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
1304lx	326lx	145lx	81lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
121.1fcd	30.3fcd	13.5fcd	7.6fcd	4.8fcd	3.4fcd	2.5fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

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°
1304	1303	1298	1288	1272	1252	1224	1182	1097	993	861	686	468	301	205	141	97	63	38	21
100%	100%	100%	99%	98%	96%	94%	91%	84%	76%	66%	53%	36%	23%	16%	11%	7%	5%	3%	2%

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°
1304	1299	1290	1278	1264	1247	1222	1173	1090	986	868	680	463	309	219	154	110	75	47	25
100%	100%	99%	98%	97%	96%	94%	90%	84%	76%	67%	52%	35%	24%	17%	12%	8%	6%	4%	2%

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°
1304	1301	1296	1285	1268	1249	1223	1183	1095	995	862	684	470	337	246	181	133	93	62	36
100%	100%	99%	99%	97%	96%	94%	91%	84%	76%	66%	52%	36%	26%	19%	14%	10%	7%	5%	3%

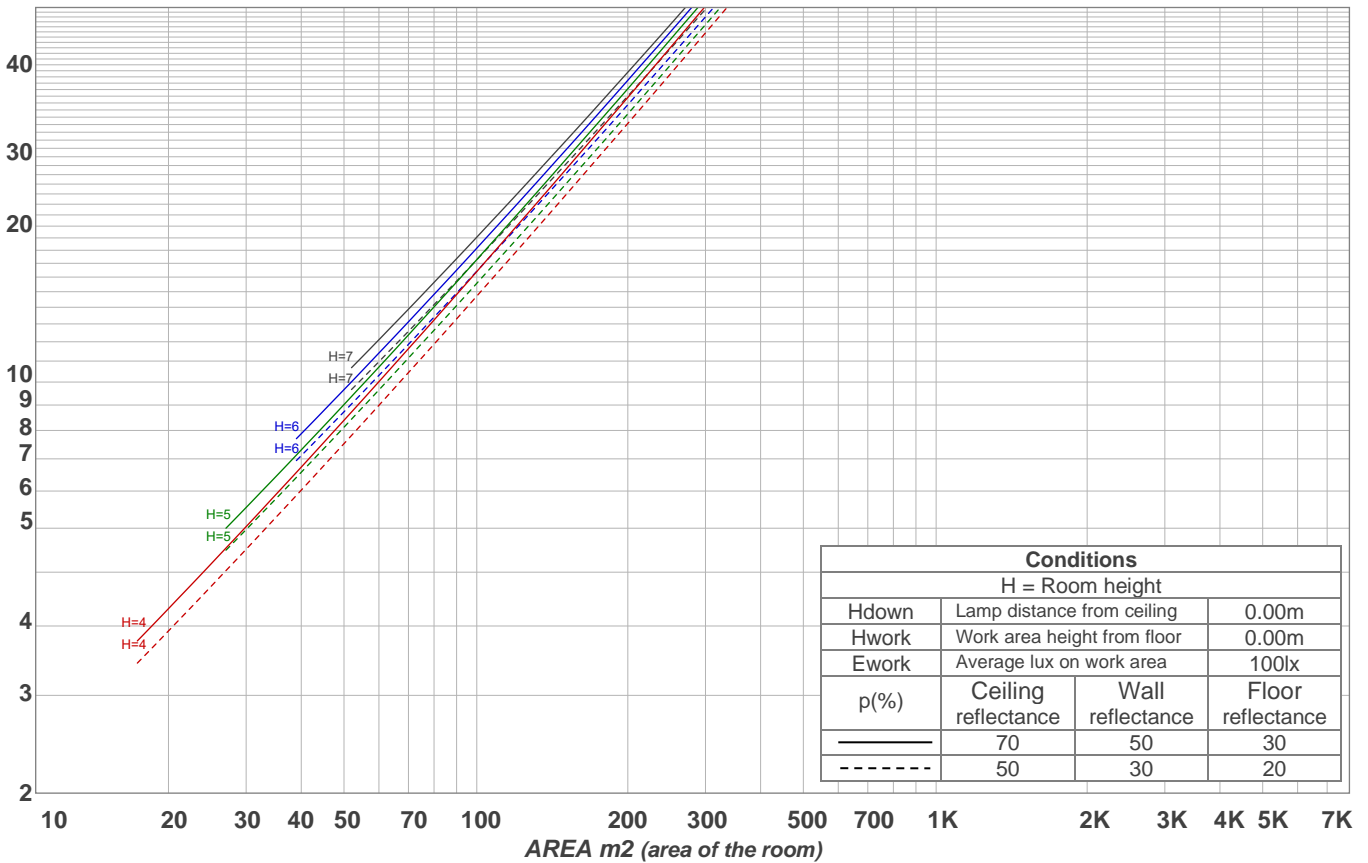
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1304	1306	1302	1292	1275	1253	1225	1177	1103	1002	875	683	480	314	238	176	126	86	55	30
100%	100%	100%	99%	98%	96%	94%	90%	85%	77%	67%	52%	37%	24%	18%	13%	10%	7%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44.6°	62.7°	74.8°	99.1%	98.8%

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	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86	86	86	
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82	82	82	
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79	79	79	
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75	75	75	
7	90	83	78	74	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	
8	87	79	75	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66	66	66	
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64	64	64	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
122 lm	310 lm	192 lm	42.7 lm	3.26 lm	1.35 lm	1.79 lm	2.02 lm	2.20 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