

Light efficiency:



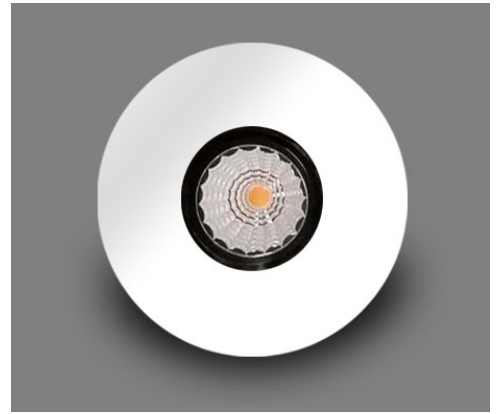
Output: 671 lm

Light quality:

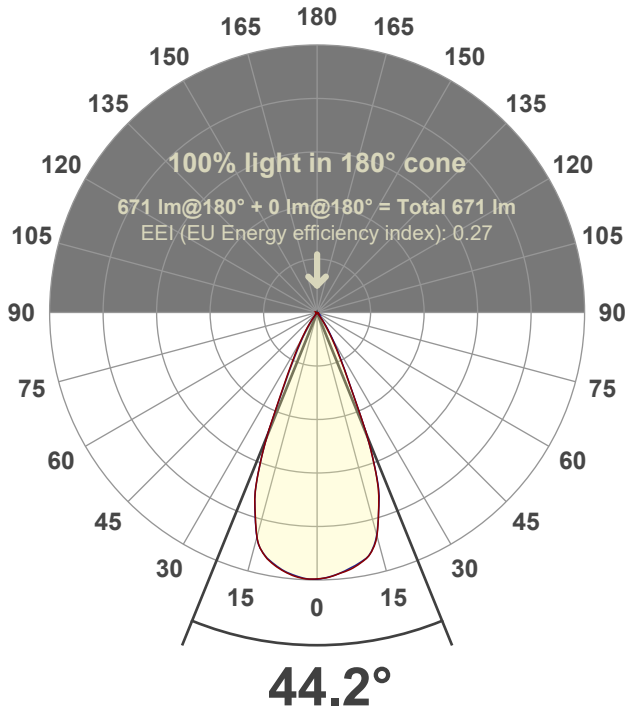


Peak: 1316 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-WF-RD-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-2722 60° Optic

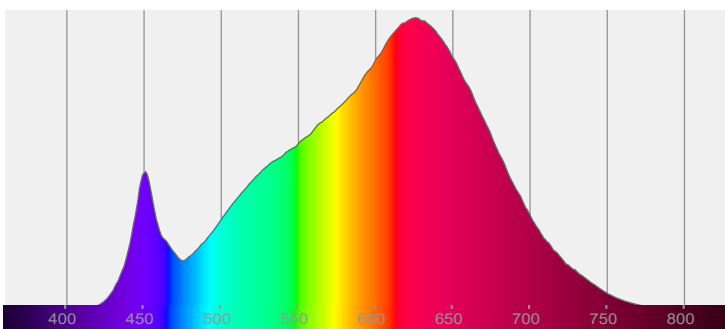
Date and time:

3/24/2022 6:47:43 PM

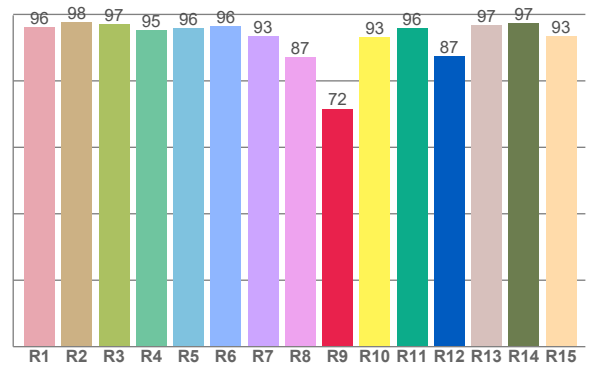
Delivered Lumens

671

Spectra



CRI: 94.9 (R1-R8)



Color parameters

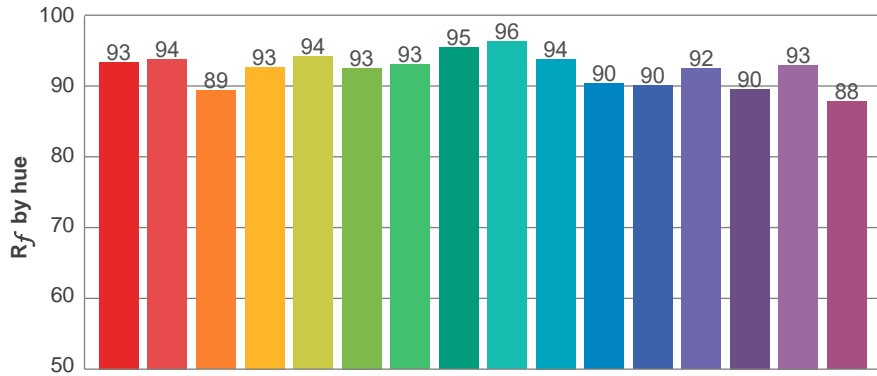
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.9	71.6	92.4	102.2	91.2	0.445	0.400	0.258	0.347	-0.0026

R_f 92.4
Fidelity index R_f

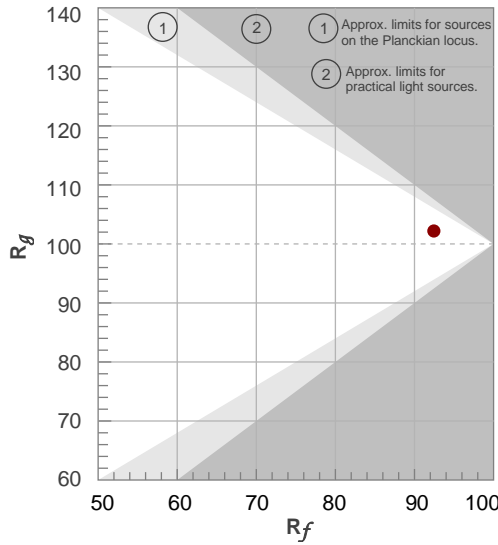
R_g 102.2
Gammut index R_g

TM30: 92.4

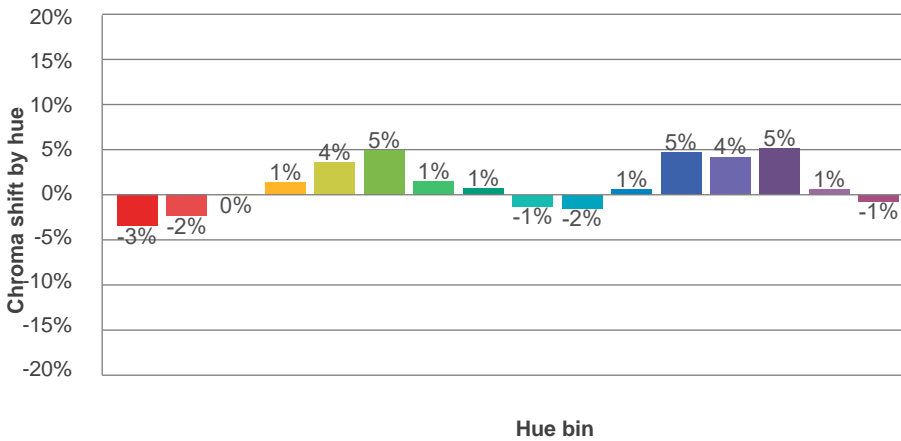
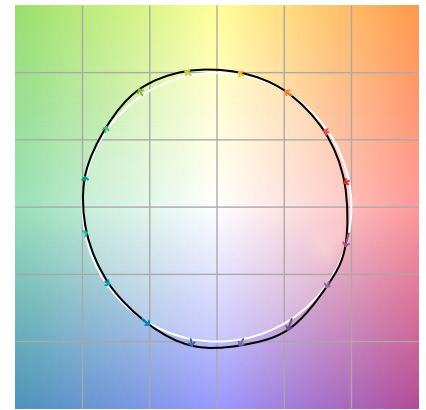
TM-30Color



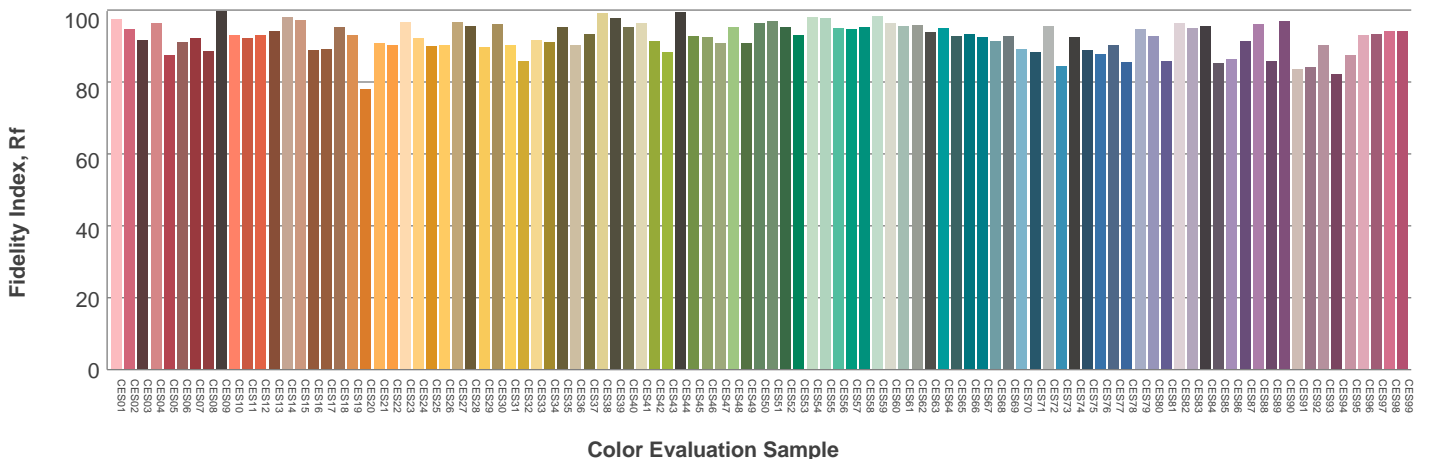
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	3%
3	89	0%	6%
4	93	1%	4%
5	94	4%	3%
6	93	5%	0%
7	93	1%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	90	1%	7%
12	90	5%	2%
13	92	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



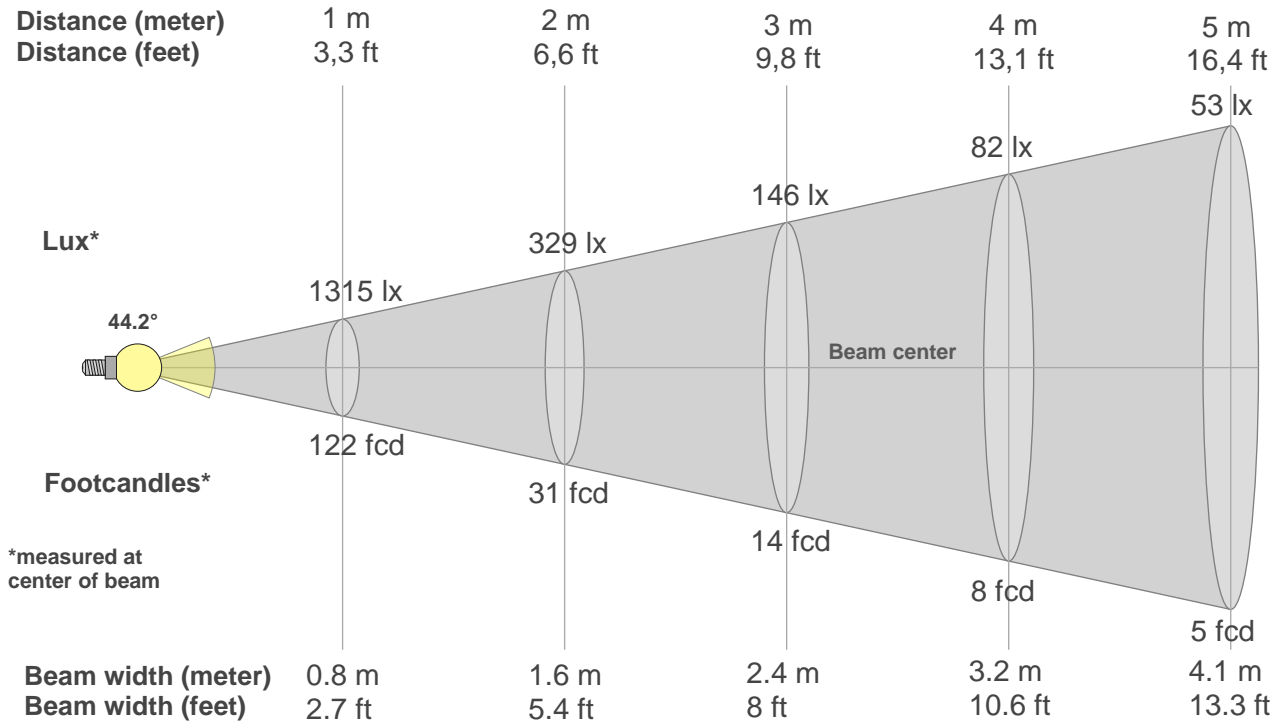
Color vector graphics



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
1315lx	329lx	146lx	82lx	53lx	37lx	27lx	21lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
122.2fcd	30.5fcd	13.6fcd	7.6fcd	4.9fcd	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°
1315	1310	1299	1287	1273	1253	1227	1175	1090	983	854	671	444	303	212	148	102	68	41	22
100%	100%	99%	98%	97%	95%	93%	89%	83%	75%	65%	51%	34%	23%	16%	11%	8%	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°
1315	1309	1298	1283	1267	1249	1225	1171	1088	986	859	667	445	312	225	164	118	81	52	29
100%	99%	99%	98%	96%	95%	93%	89%	83%	75%	65%	51%	34%	24%	17%	12%	9%	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°
1315	1316	1310	1298	1281	1260	1231	1182	1096	991	859	671	453	322	235	172	122	84	54	31
100%	100%	100%	99%	97%	96%	94%	90%	83%	75%	65%	51%	34%	25%	18%	13%	9%	6%	4%	2%

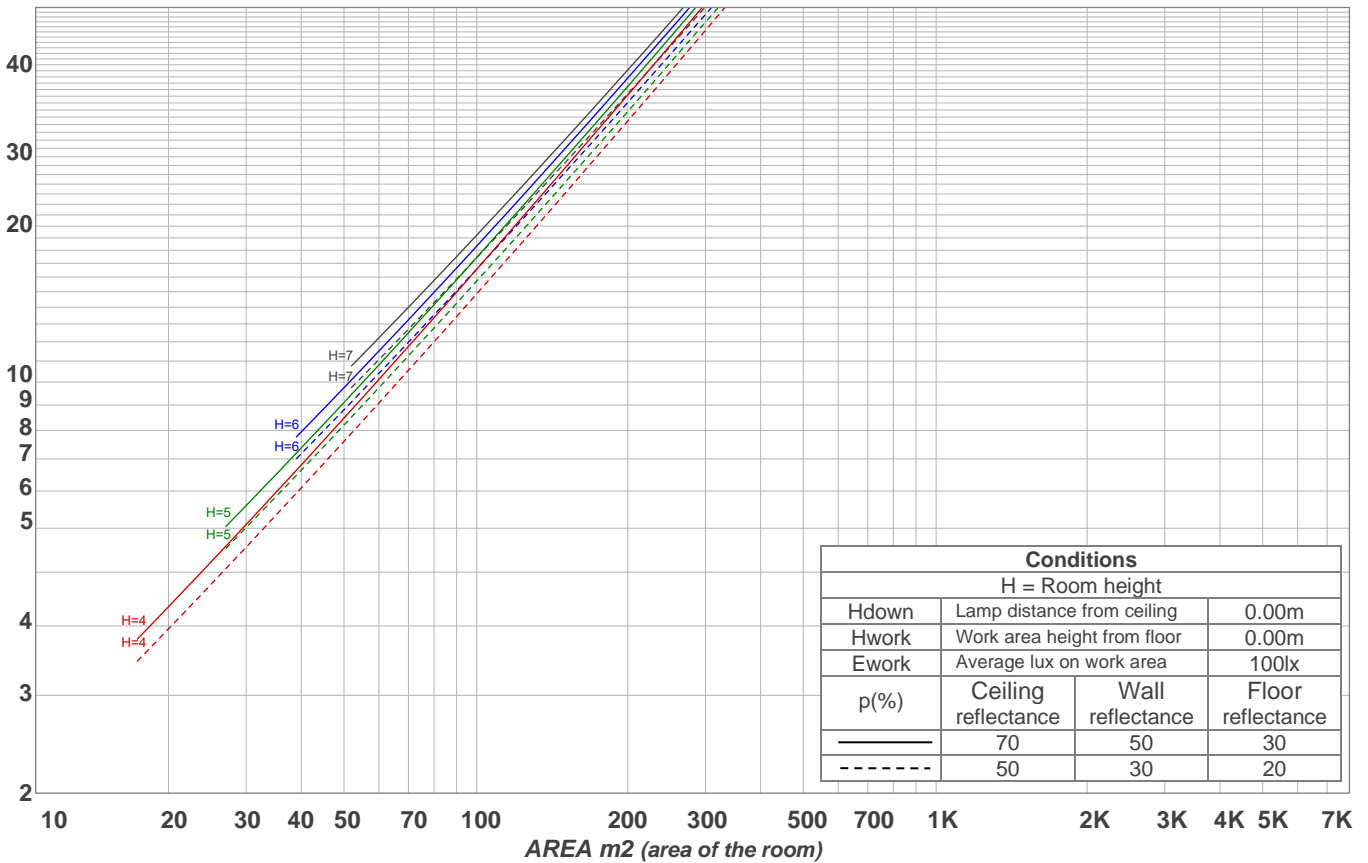
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1315	1315	1307	1295	1278	1256	1229	1182	1097	991	856	667	437	302	212	149	104	68	42	23
100%	100%	99%	98%	97%	95%	93%	90%	83%	75%	65%	51%	33%	23%	16%	11%	8%	5%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44.2°	62.2°	74.4°	99.0%	98.7%

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	94	92	91	91	91	
3	106	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	85	81	78	83	80	77	82	79	77	75	75	75	
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	69	69	
9	84	76	72	68	83	76	71	68	75	71	68	74	70	68	74	70	68	66	66	66	
10	81	73	69	65	80	73	68	65	72	68	65	72	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	309 lm	187 lm	40.8 lm	3.13 lm	1.51 lm	1.94 lm	2.15 lm	2.35 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