

Light efficiency:



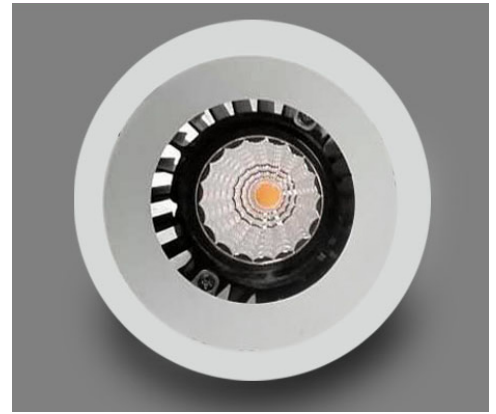
Output: 1043 lm

Light quality:

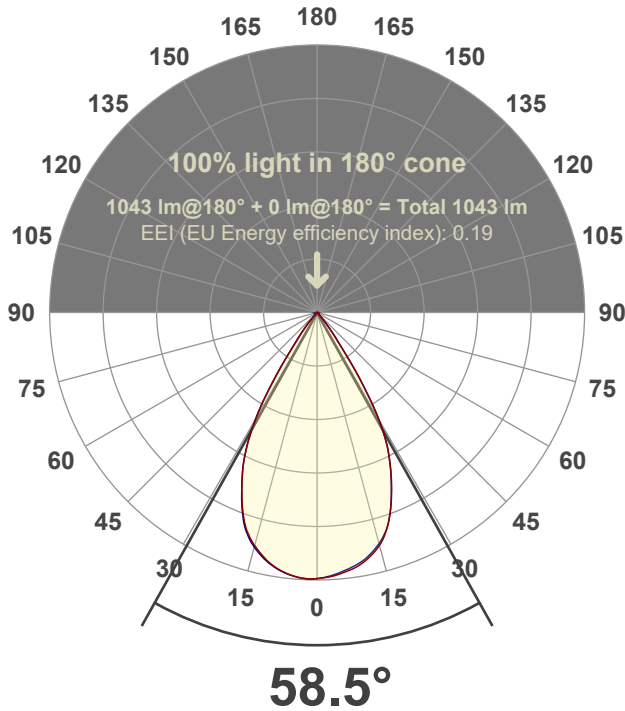


Peak: 1316 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

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

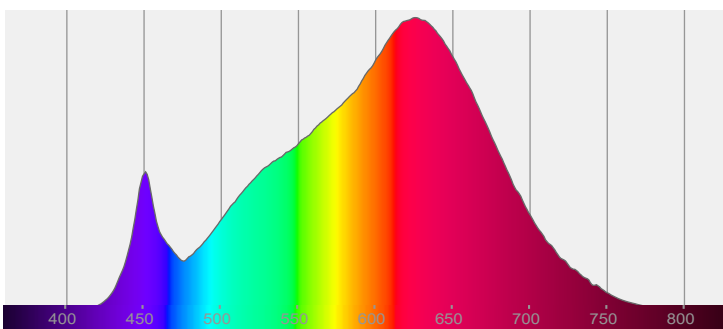
Date and time:

3/24/2022 6:45:13 PM

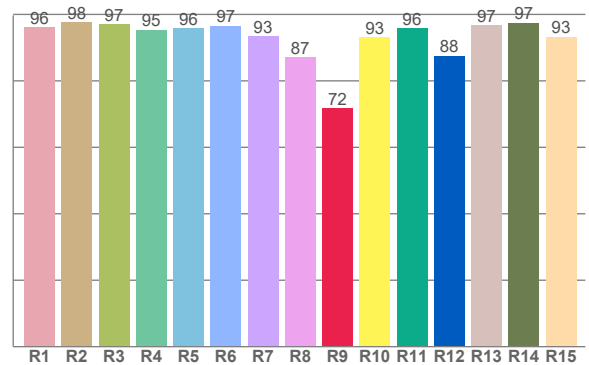
Delivered Lumens

1043

Spectra



CRI: 94.9 (R1-R8)



Color parameters

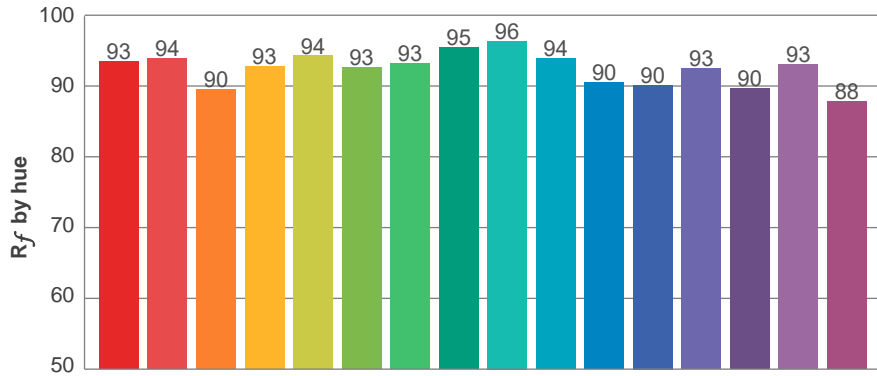
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.9	71.7	92.5	102.2	91.3	0.446	0.400	0.258	0.347	-0.0025

R_f 92.5
Fidelity index R_f

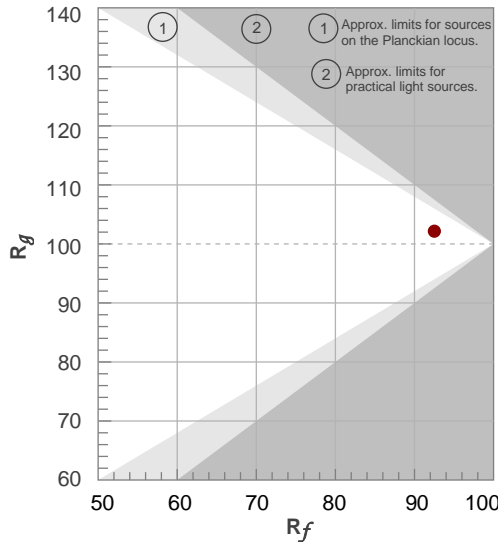
R_g 102.2
Gammut index R_g

TM30: 92.5

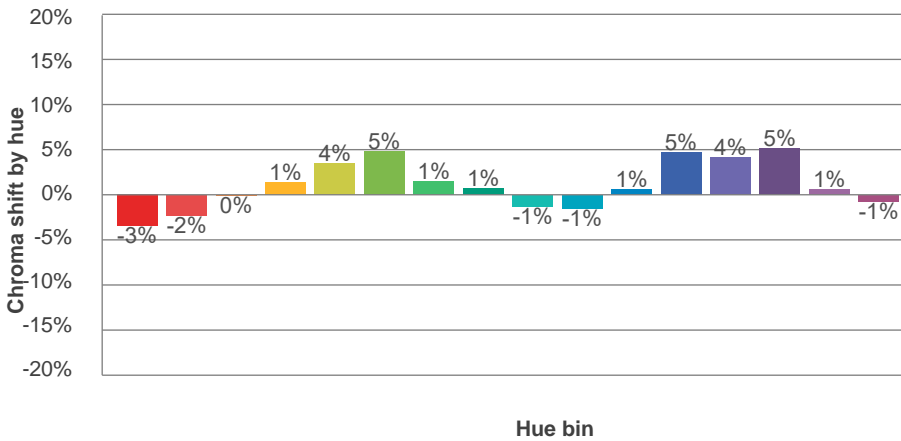
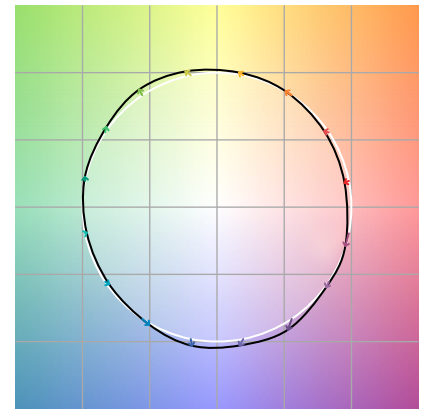
TM-30Color



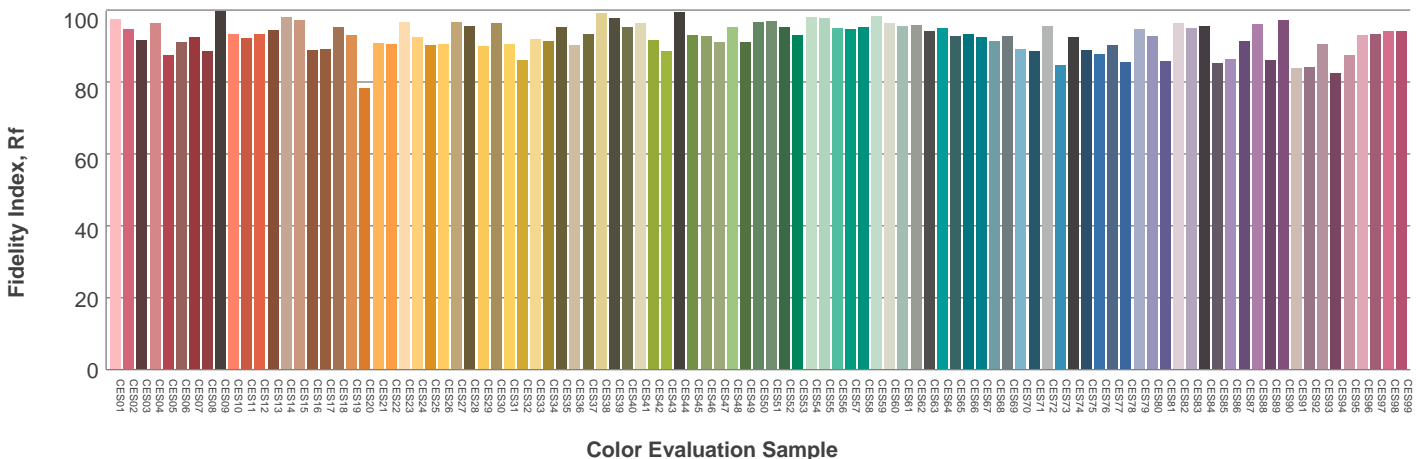
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	3%
3	90	0%	5%
4	93	1%	3%
5	94	4%	3%
6	93	5%	0%
7	93	1%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	94	-1%	3%
11	90	1%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



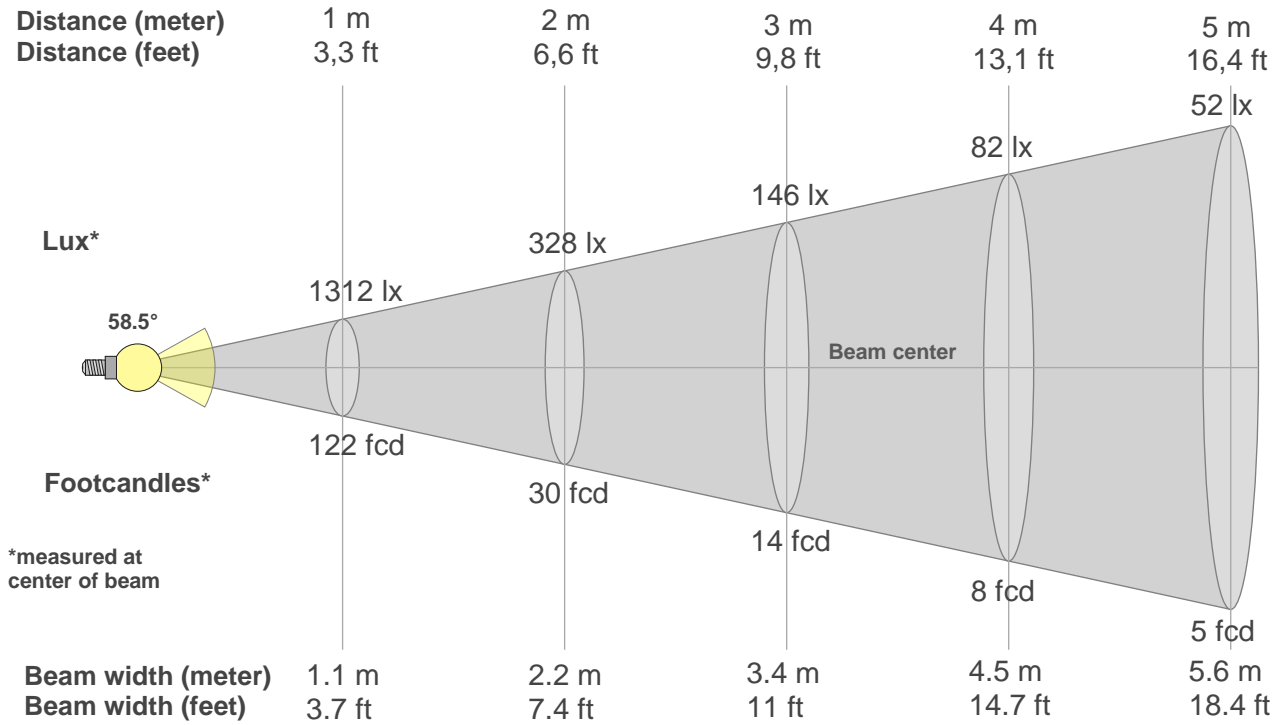
Color vector graphics



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
1312lx	328lx	146lx	82lx	52lx	36lx	27lx	21lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
121.9fcd	30.5fcd	13.5fcd	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°
1312	1308	1300	1289	1276	1258	1235	1206	1170	1118	1054	982	904	822	731	610	466	315	178	110
100%	100%	99%	98%	97%	96%	94%	92%	89%	85%	80%	75%	69%	63%	56%	46%	36%	24%	14%	8%

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°
1312	1305	1294	1281	1267	1249	1226	1197	1162	1117	1053	979	900	819	732	611	462	309	185	120
100%	99%	99%	98%	97%	95%	93%	91%	89%	85%	80%	75%	69%	62%	56%	47%	35%	24%	14%	9%

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°
1312	1314	1310	1300	1285	1265	1239	1208	1173	1126	1064	992	913	833	734	611	469	322	194	131
100%	100%	100%	99%	98%	96%	94%	92%	89%	86%	81%	76%	70%	63%	56%	47%	36%	25%	15%	10%

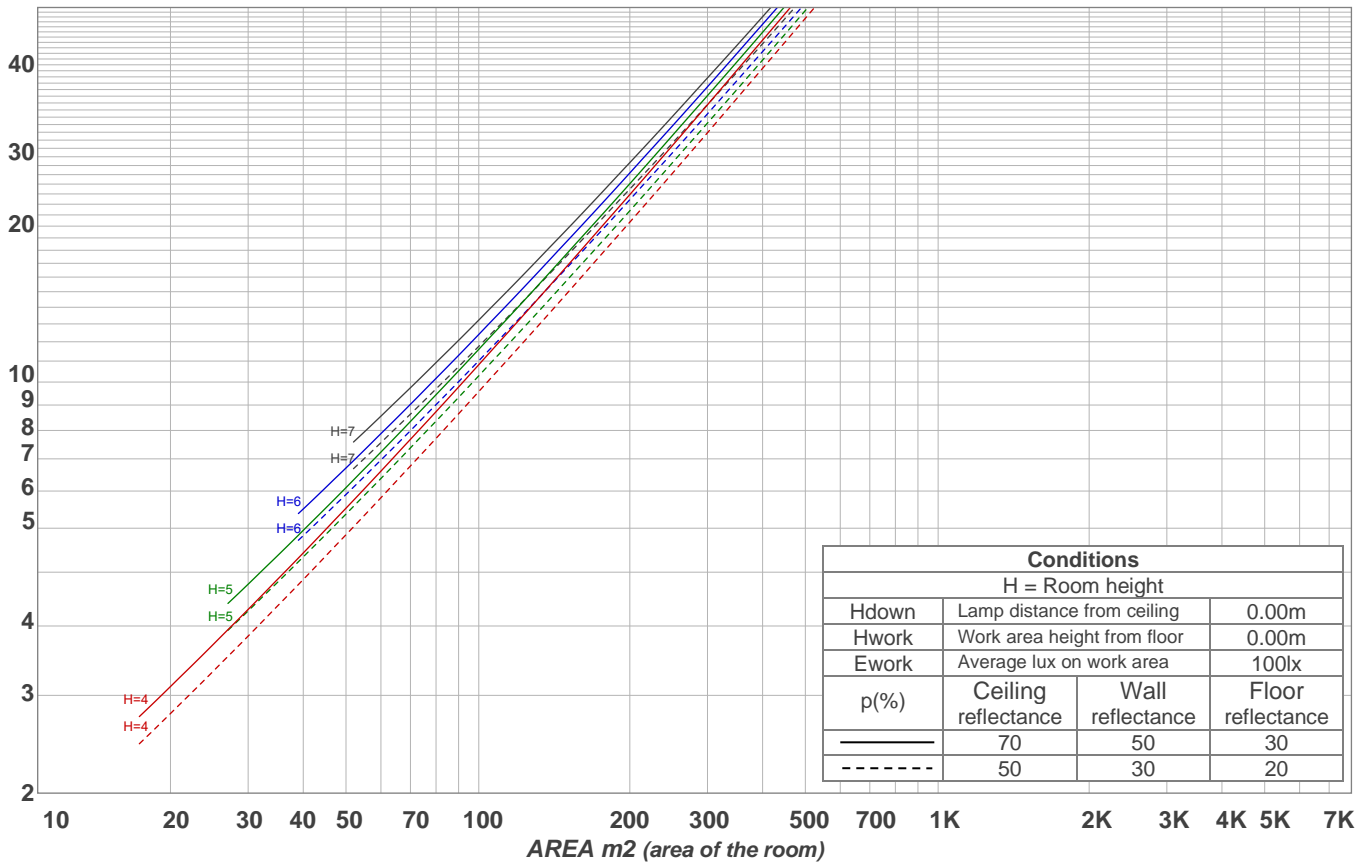
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1312	1315	1310	1301	1287	1268	1245	1216	1179	1132	1071	996	913	830	728	608	465	306	184	118
100%	100%	100%	99%	98%	97%	95%	93%	90%	86%	82%	76%	70%	63%	55%	46%	35%	23%	14%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58.5°	75.3°	86.3°	99.4%	98.9%

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88	88	88	
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83	83	83	
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78	78	78	
5	94	86	81	77	93	86	80	77	84	79	76	82	78	75	81	77	75	73	73	73	
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69	69	69	
7	86	77	72	68	85	77	71	67	75	71	67	74	70	67	73	69	66	65	65	65	
8	82	73	67	64	81	73	67	63	71	67	63	70	66	63	70	66	63	61	61	61	
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58	58	58	
10	75	66	60	57	74	65	60	57	65	60	57	64	60	56	63	59	56	55	55	55	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
123 lm	332 lm	392 lm	170 lm	19.0 lm	1.81 lm	1.75 lm	1.97 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