

Light efficiency:



Output: 1046 lm

Light quality:

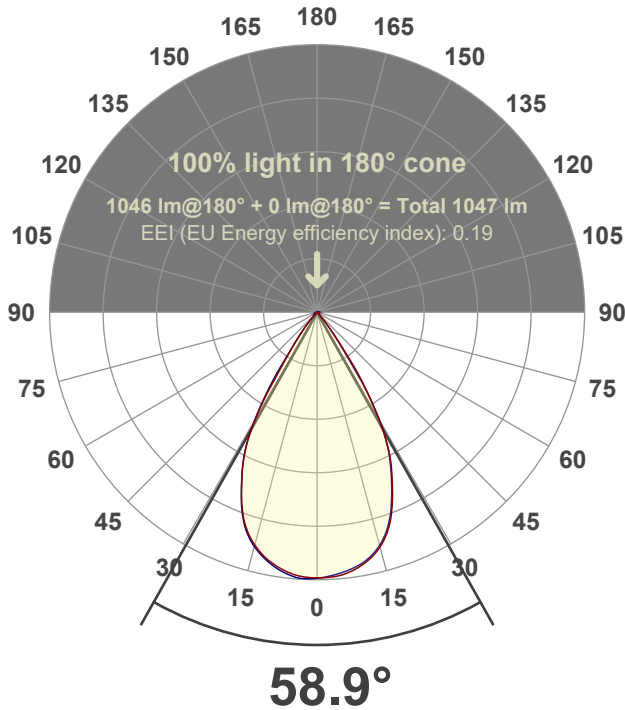


Peak: 1306 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3022 60° Optic-No Solite

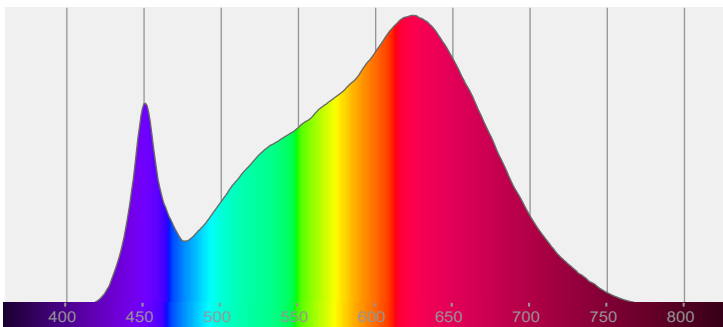
Date and time:

3/24/2022 5:41:27 PM

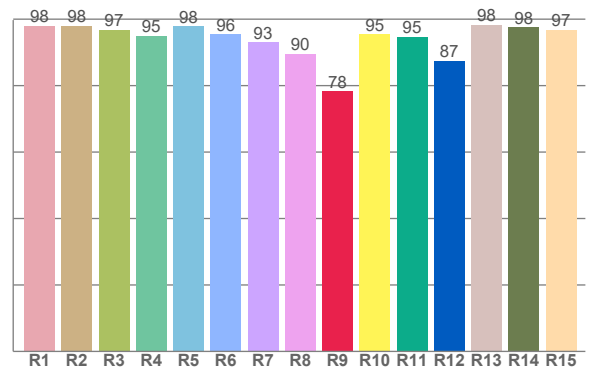
Delivered Lumens

1046

Spectra



CRI: 95.5 (R1-R8)



Color parameters

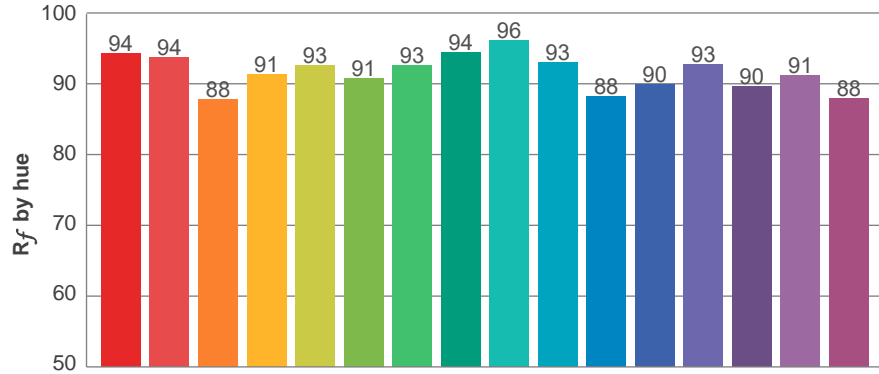
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
95.5	78.4	91.8	103.9	90.7	0.421	0.382	0.250	0.340	-0.0068

R_f 91.8
Fidelity index R_f

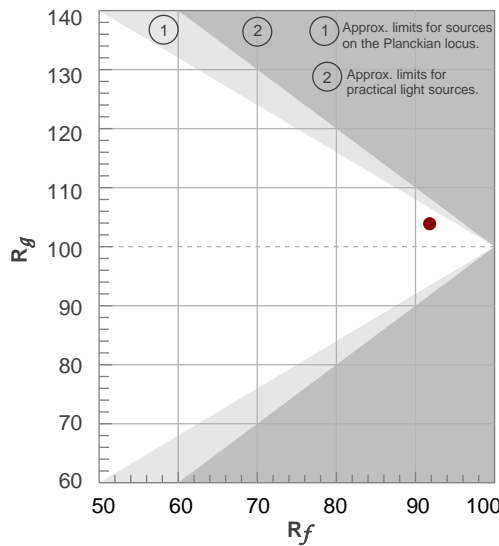
R_g 103.9
Gammut index R_g

TM30: 91.8

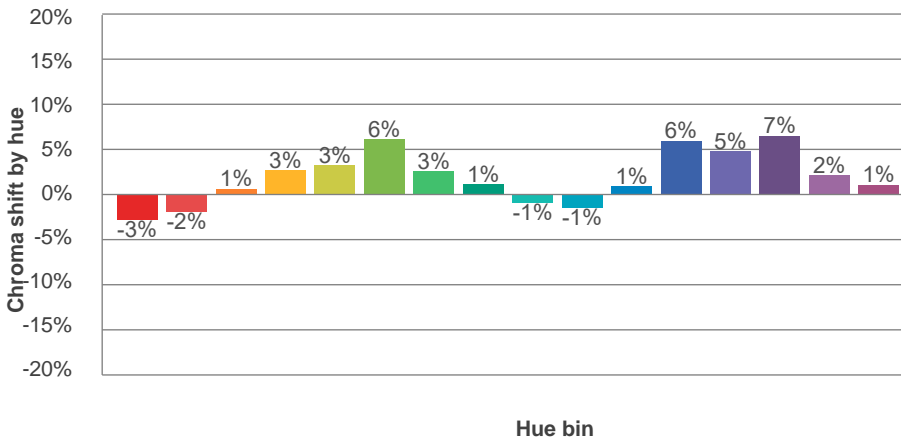
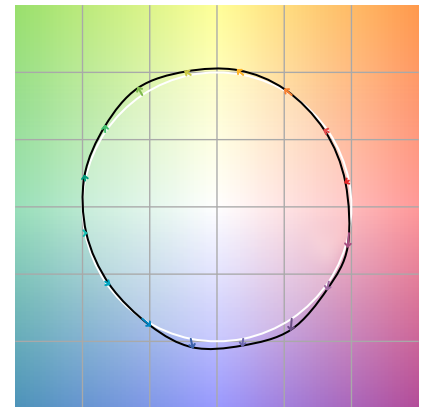
TM-30Color



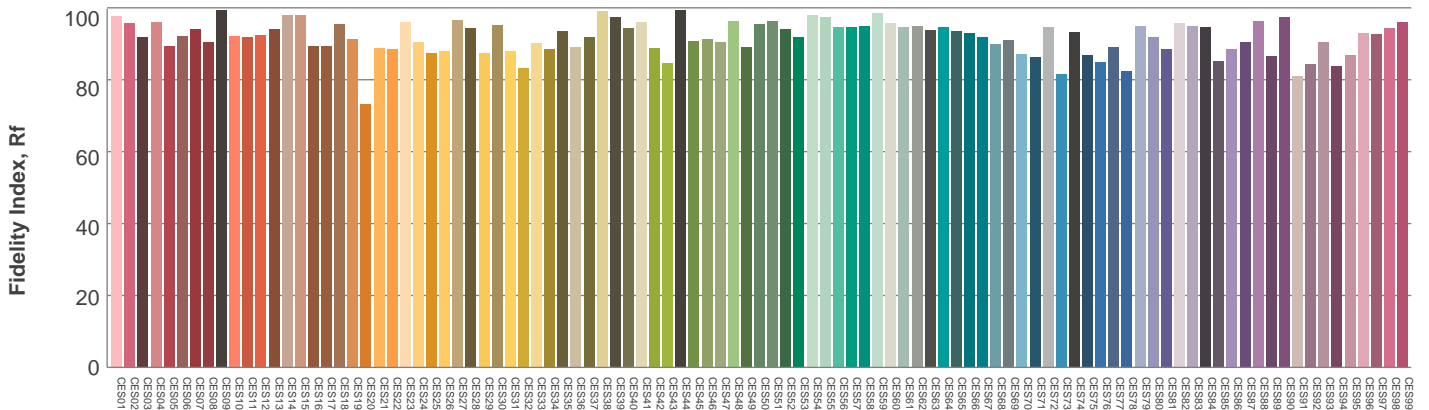
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-1%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	7%	-5%
15	91	2%	-5%
16	88	1%	-10%



Color vector graphics



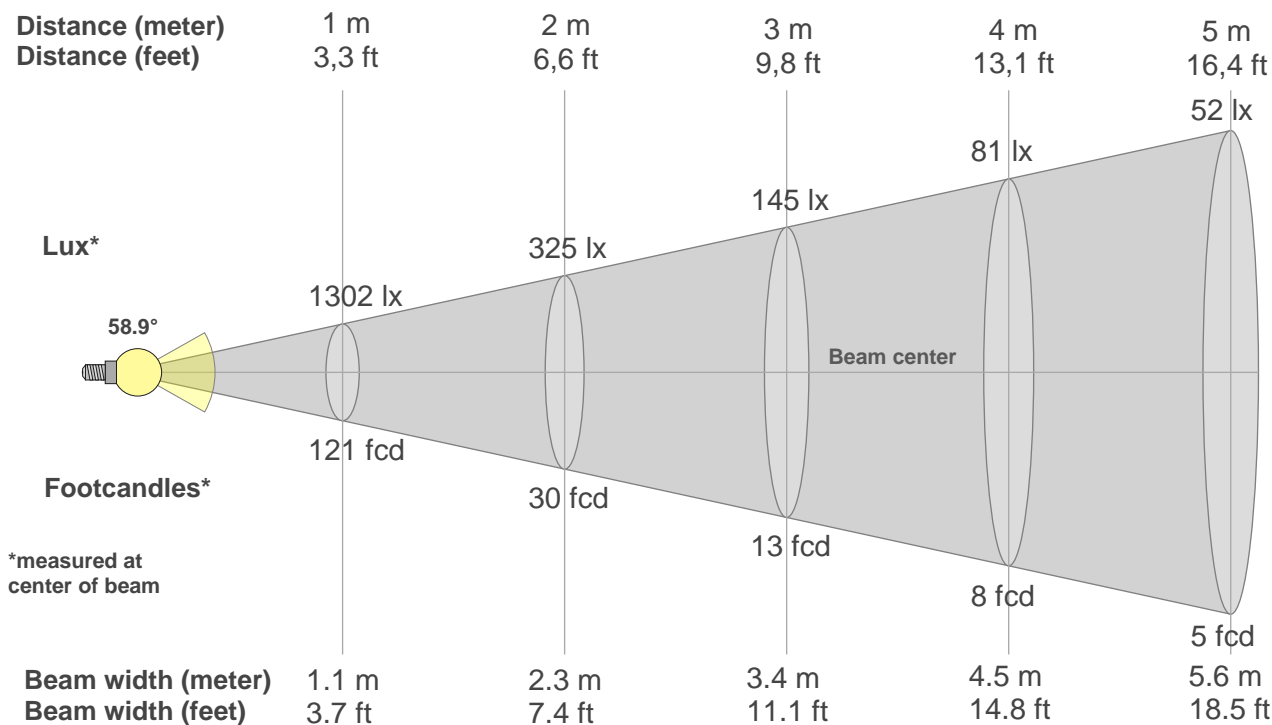
Color distortion



Color Evaluation Sample

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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
1302lx	325lx	145lx	81lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
121fcd	30.2fcd	13.4fcd	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°
1302	1300	1297	1289	1276	1259	1236	1207	1170	1122	1062	988	908	827	731	612	478	351	213	126
100%	100%	100%	99%	98%	97%	95%	93%	90%	86%	82%	76%	70%	64%	56%	47%	37%	27%	16%	10%

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°
1302	1296	1288	1278	1266	1250	1228	1199	1162	1114	1053	977	898	818	729	619	477	307	191	118
100%	100%	99%	98%	97%	96%	94%	92%	89%	86%	81%	75%	69%	63%	56%	48%	37%	24%	15%	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°
1302	1300	1294	1283	1268	1250	1227	1197	1161	1116	1059	989	910	832	737	610	450	283	189	128
100%	100%	99%	99%	97%	96%	94%	92%	89%	86%	81%	76%	70%	64%	57%	47%	35%	22%	15%	10%

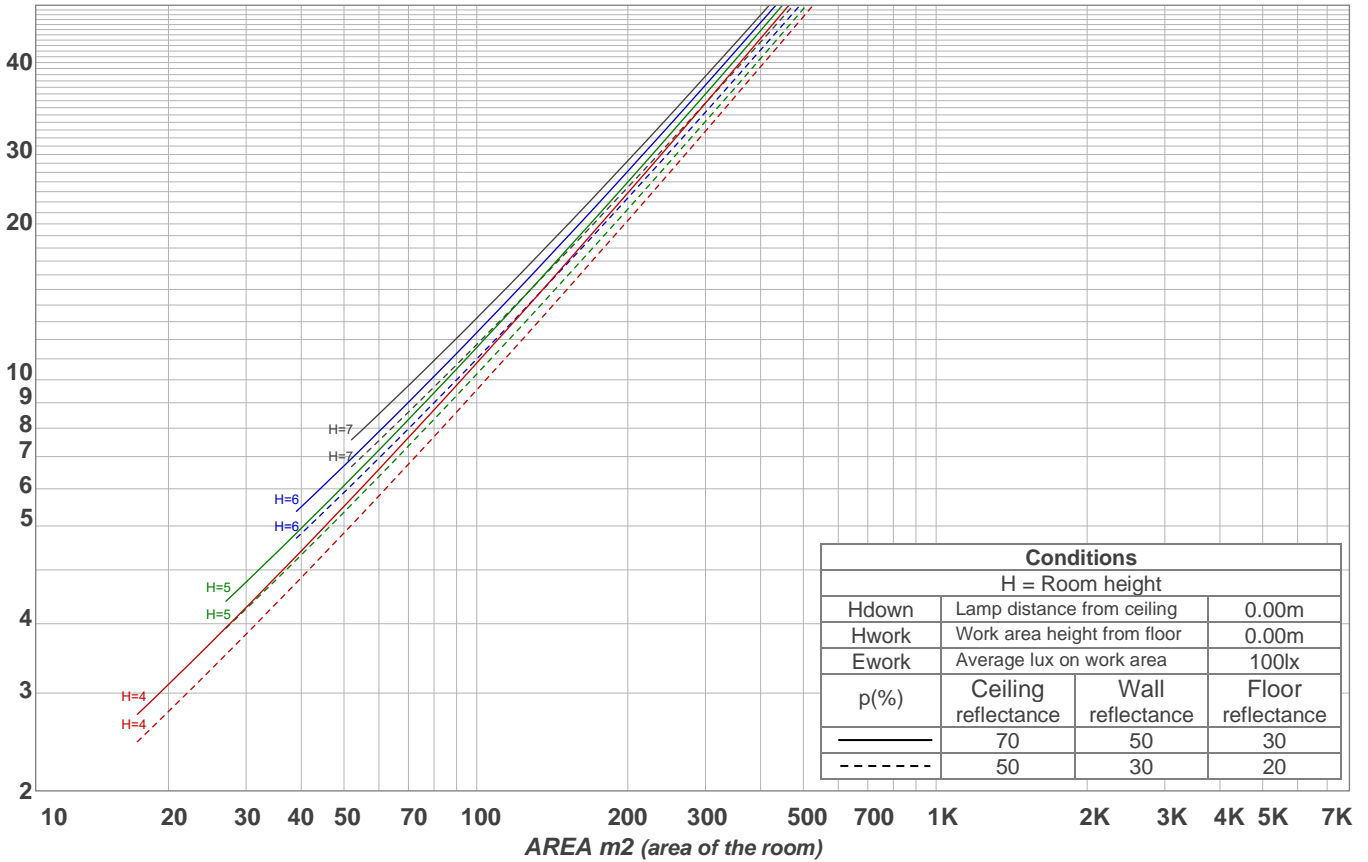
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1302	1306	1305	1294	1278	1258	1234	1205	1170	1124	1065	992	912	831	740	617	478	330	200	134
100%	100%	100%	99%	98%	97%	95%	93%	90%	86%	82%	76%	70%	64%	57%	47%	37%	25%	15%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58.9°	75.8°	86.9°	99.5%	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	0
Floor reflectance	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
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83
4	99	92	87	83	97	91	86	82	88	84	81	87	83	80	85	82	79	78
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65
8	82	73	67	63	81	72	67	63	71	67	63	70	66	63	69	65	63	61
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
122 lm	331 lm	392 lm	174 lm	20.0 lm	1.73 lm	1.60 lm	1.80 lm	2.01 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

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