

Light efficiency:



Output: 609 lm

Light quality:

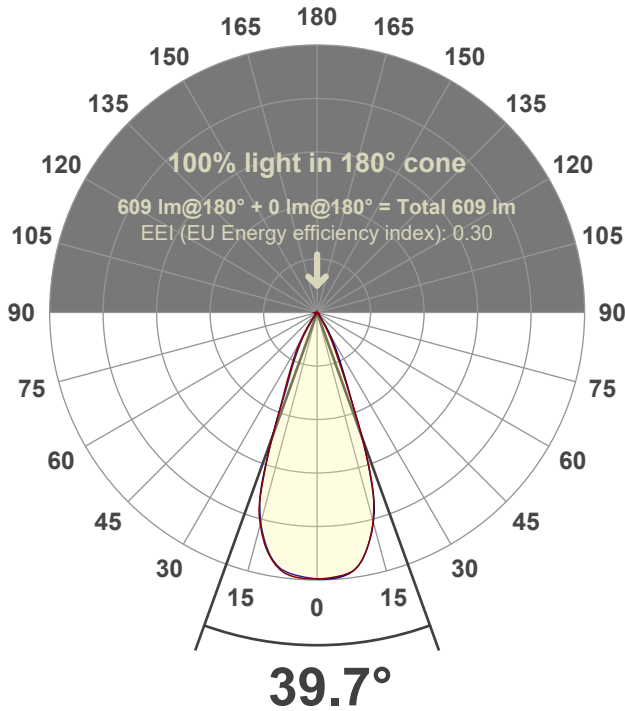


Peak: 1354 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-3022-WF-SQ-Rev2

Luminaire Model:

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

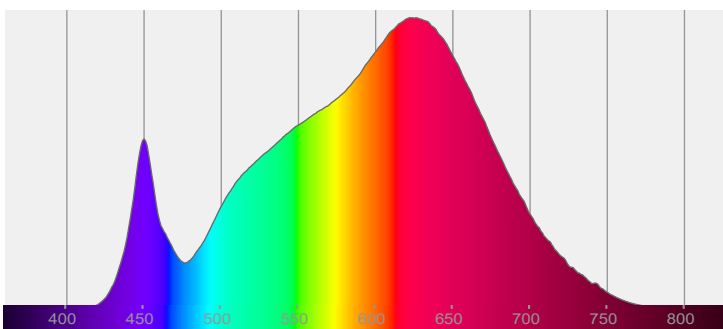
Date and time:

6/30/2022 4:54:21 PM

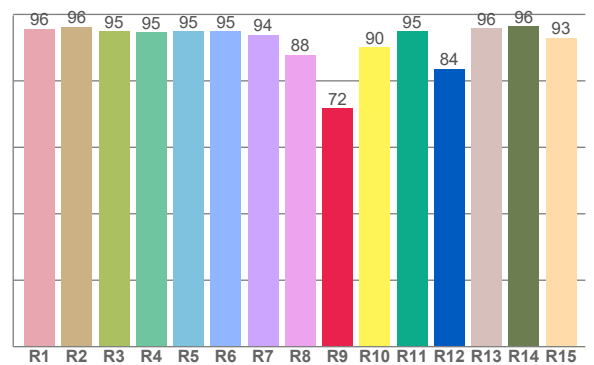
Delivered Lumens

609

Spectra



CRI: 94.1 (R1-R8)



Color parameters

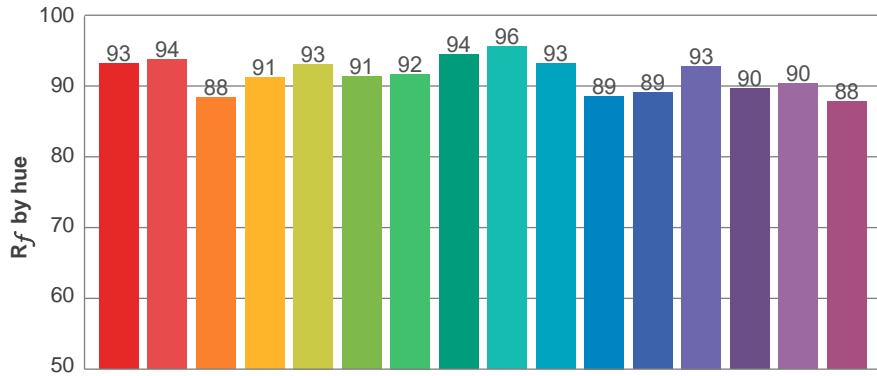
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.1	71.6	91.7	102.8	90.9	0.434	0.397	0.251	0.345	-0.0022

R_f 91.7
Fidelity index R_f

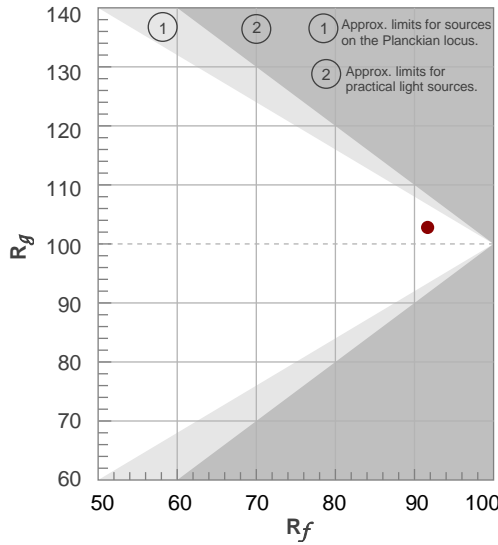
R_g 102.8
Gammut index R_g

TM30: 91.7

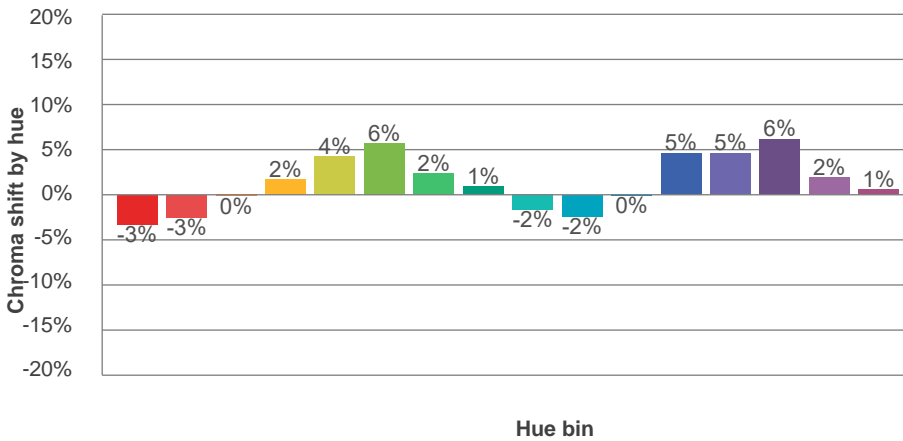
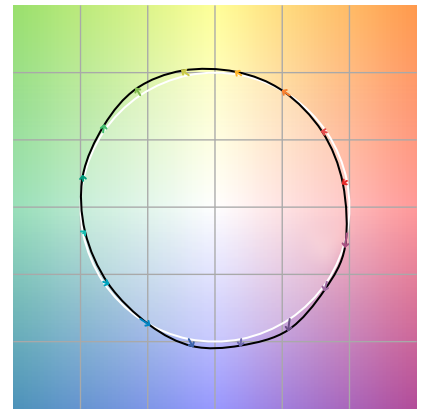
TM-30Color



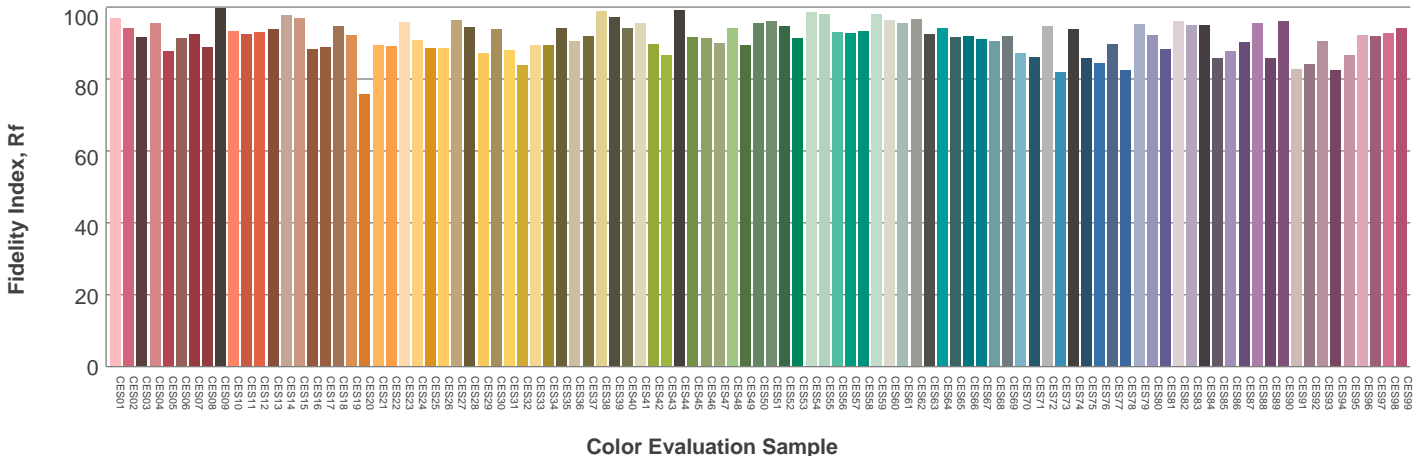
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	88	0%	6%
4	91	2%	4%
5	93	4%	4%
6	91	6%	0%
7	92	2%	-5%
8	94	1%	-4%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	90	2%	-6%
16	88	1%	-10%



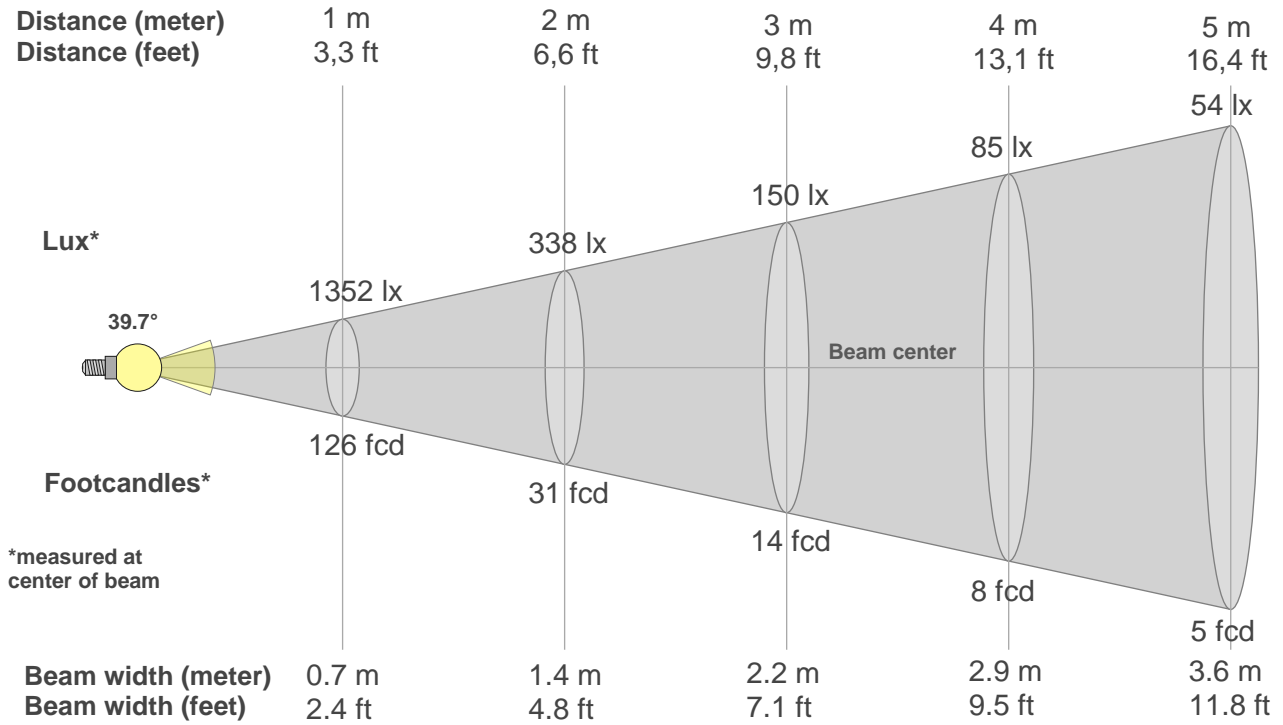
Color vector graphics



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
1352lx	338lx	150lx	85lx	54lx	38lx	28lx	21lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
125.6fcd	31.4fcd	14fcd	7.9fcd	5fcd	3.5fcd	2.6fcd	2fcd	1.6fcd	1.3fcd	1fcd	0.9fcd	0.7fcd	0.6fcd	0.6fcd	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°
1352	1350	1345	1338	1322	1282	1222	1142	1039	893	662	432	293	208	150	105	68	39	19	10
100%	100%	100%	99%	98%	95%	90%	84%	77%	66%	49%	32%	22%	15%	11%	8%	5%	3%	1%	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°
1352	1353	1351	1342	1323	1286	1223	1146	1044	879	657	446	328	249	190	142	101	64	35	18
100%	100%	100%	99%	98%	95%	90%	85%	77%	65%	49%	33%	24%	18%	14%	11%	7%	5%	3%	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°
1352	1352	1349	1340	1321	1285	1231	1156	1058	885	662	472	367	293	236	184	135	93	58	34
100%	100%	100%	99%	98%	95%	91%	86%	78%	65%	49%	35%	27%	22%	17%	14%	10%	7%	4%	2%

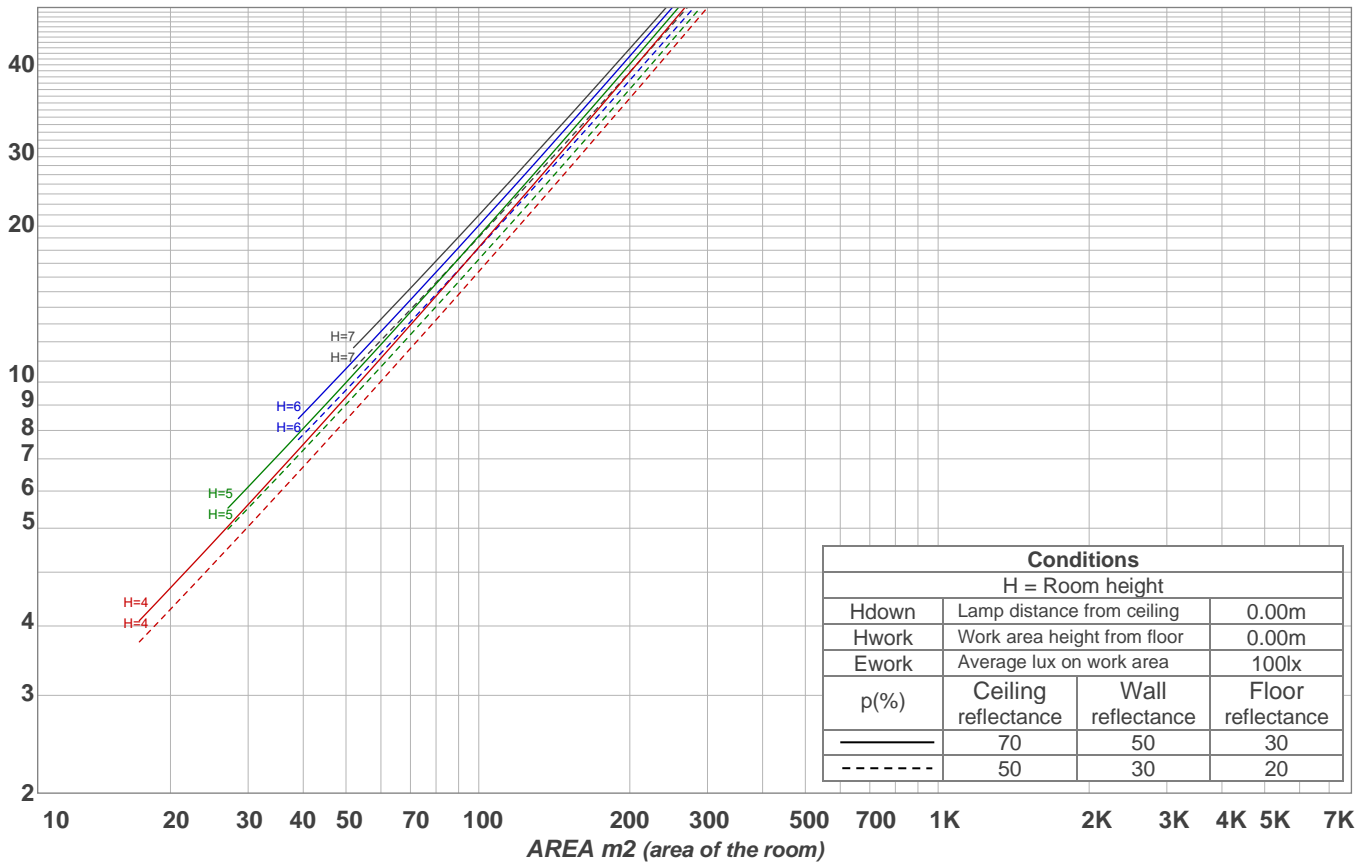
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1352	1347	1341	1331	1313	1277	1221	1146	1048	903	657	446	337	260	199	150	107	69	37	19
100%	100%	99%	98%	97%	94%	90%	85%	78%	67%	49%	33%	25%	19%	15%	11%	8%	5%	3%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.7°	60.8°	72.4°	98.6%	98.2%

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	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87	87	87	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83	83	83	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	81	86	83	81	80	80	80	80
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	77	75	80	77	74	73	73	73	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	71	71	71	71
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68	68	68	68
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65	65	65	65

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
127 lm	292 lm	142 lm	35.7 lm	2.81 lm	1.55 lm	2.76 lm	2.86 lm	2.93 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