

Light efficiency:



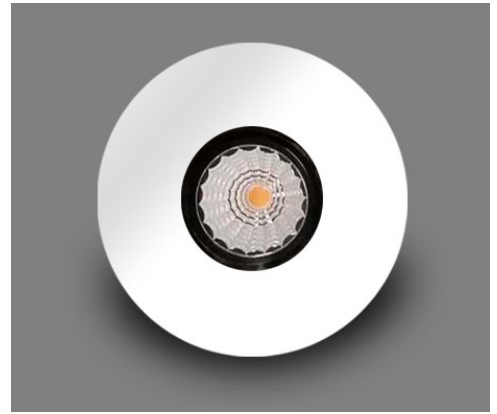
Output: 623 lm

Light quality:

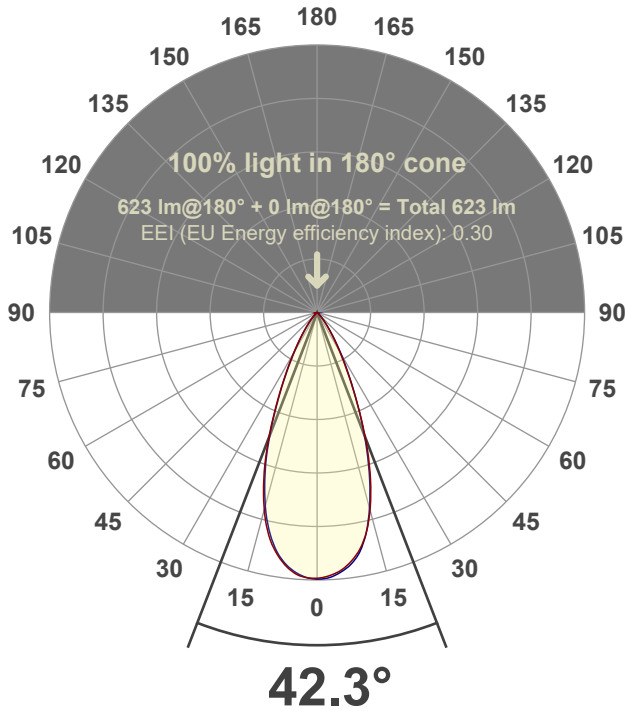


Peak: 1139 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-WF-RD-91A-Rev2

Luminaire Model:

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

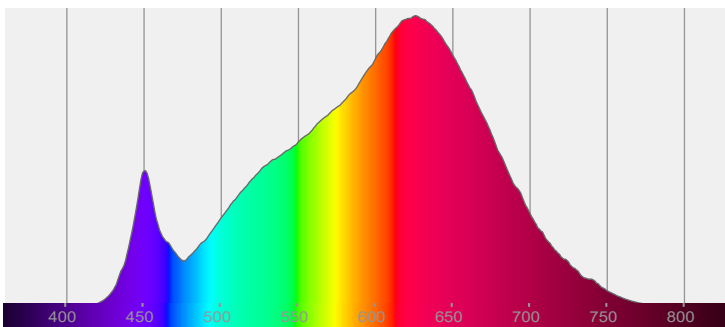
Date and time:

3/24/2022 6:37:34 PM

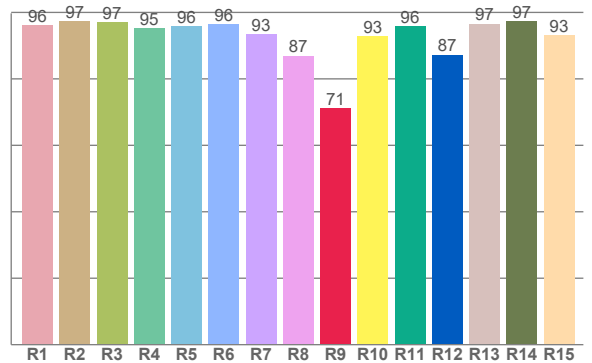
Delivered Lumens

623

Spectra



CRI: 94.8 (R1-R8)



Color parameters

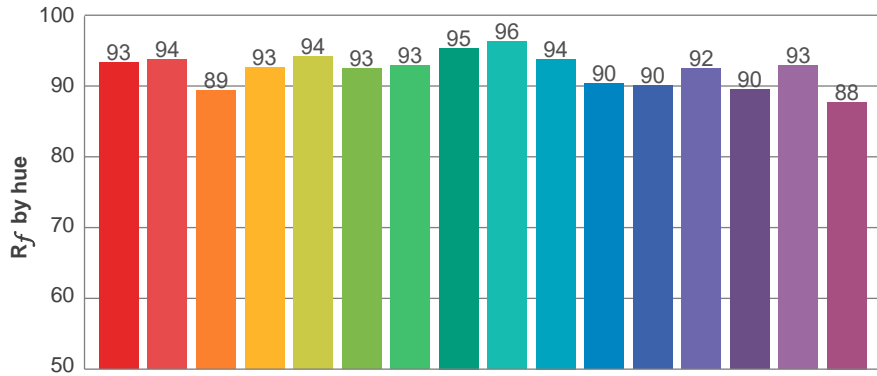
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.8	71.2	92.4	102.2	91.2	0.446	0.401	0.258	0.348	-0.0025

R_f 92.4
Fidelity index R_f

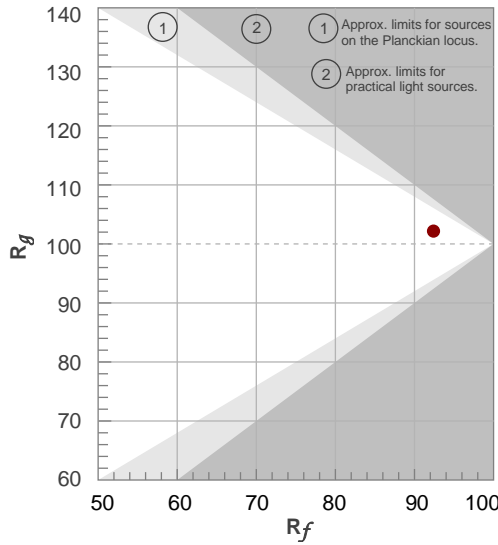
R_g 102.2
Gammut index R_g

TM30: 92.4

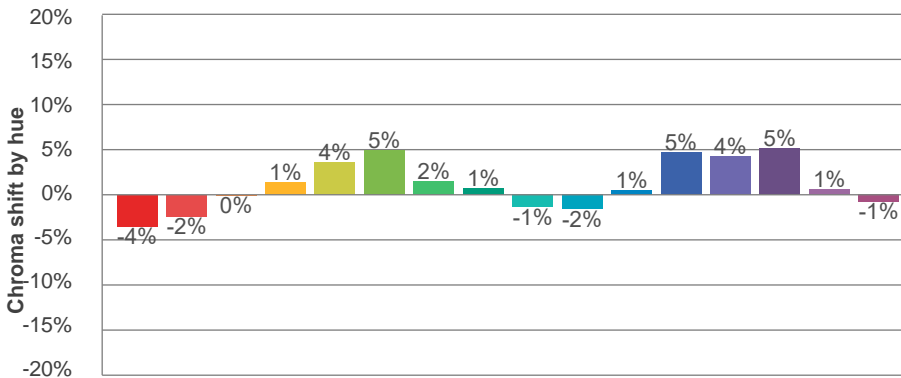
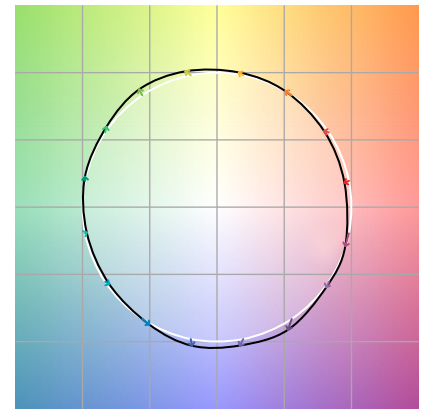
TM-30Color



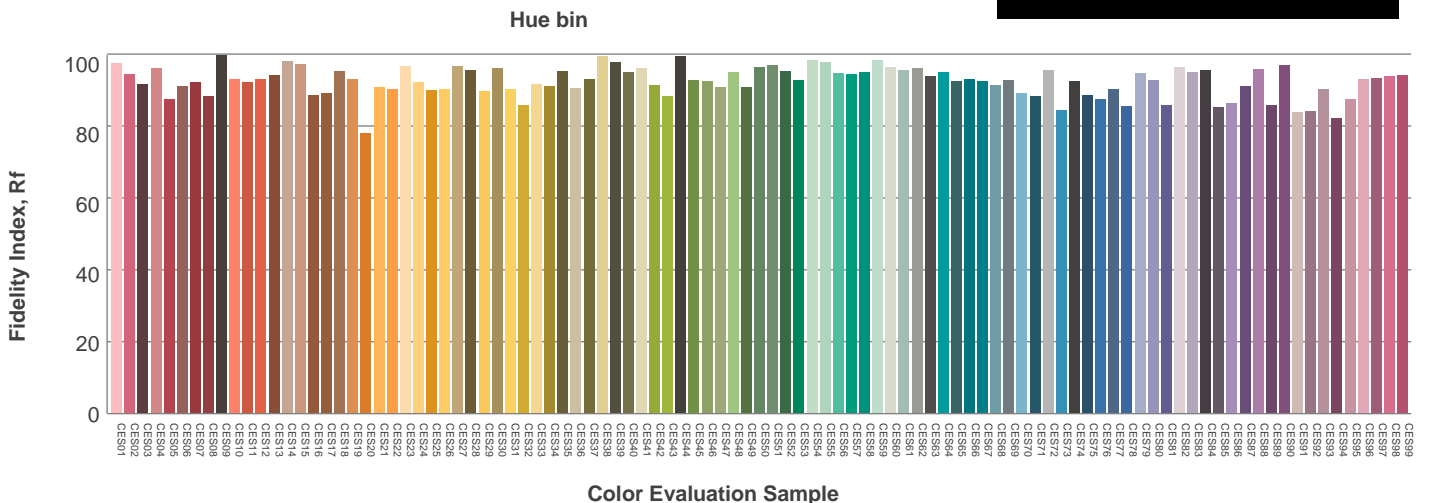
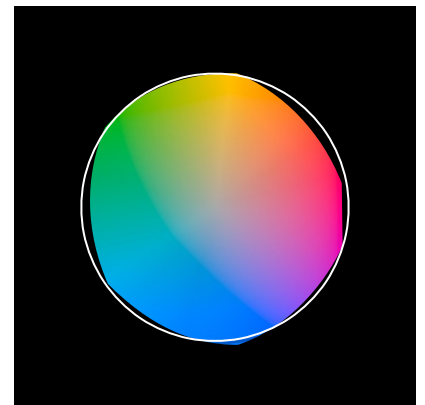
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-2%	3%
3	89	0%	6%
4	93	1%	4%
5	94	4%	3%
6	93	5%	0%
7	93	2%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	90	1%	7%
12	90	5%	2%
13	92	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



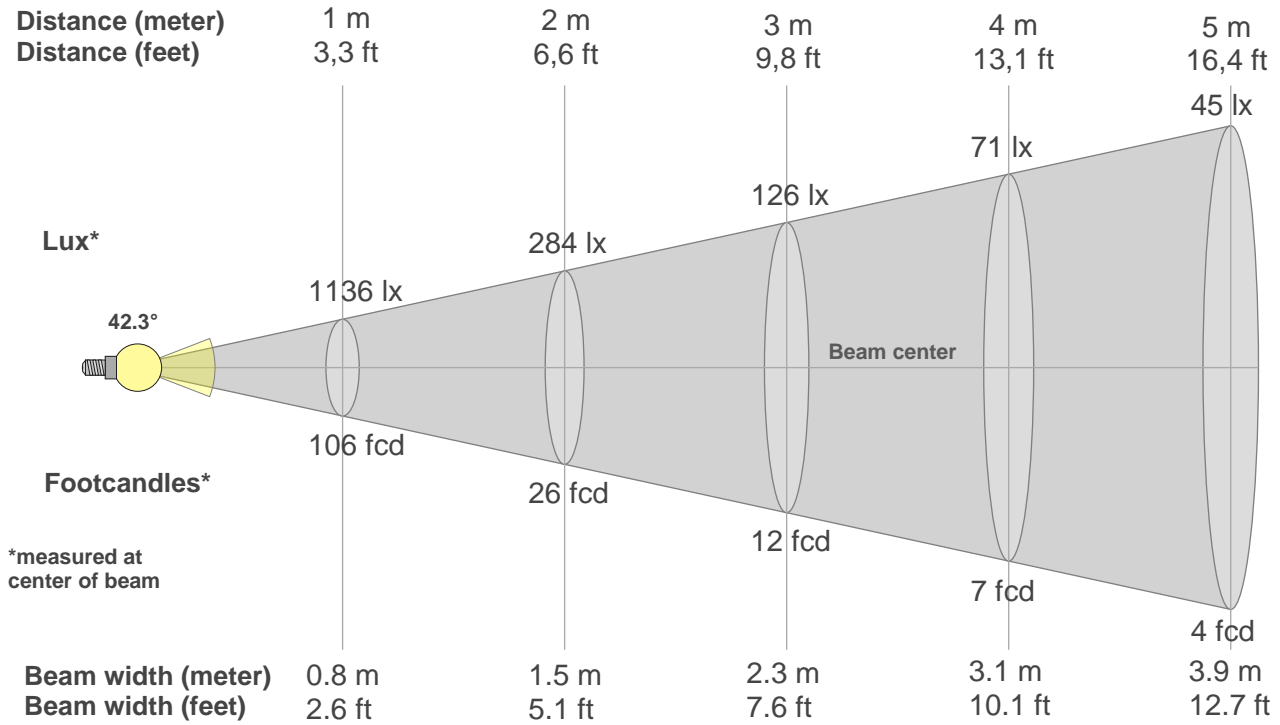
Color vector graphics



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
1136lx	284lx	126lx	71lx	45lx	32lx	23lx	18lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx	3lx
105.6fcd	26.4fcd	11.7fcd	6.6fcd	4.2fcd	2.9fcd	2.2fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	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°
1136	1128	1116	1097	1070	1032	980	913	831	738	636	527	424	334	259	200	155	118	90	67
100%	99%	98%	97%	94%	91%	86%	80%	73%	65%	56%	46%	37%	29%	23%	18%	14%	10%	8%	6%

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°
1136	1135	1124	1105	1079	1041	982	907	819	723	621	518	423	340	269	210	163	124	94	70
100%	100%	99%	97%	95%	92%	86%	80%	72%	64%	55%	46%	37%	30%	24%	18%	14%	11%	8%	6%

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°
1136	1134	1125	1104	1073	1032	981	914	829	736	635	529	426	340	269	210	162	123	92	69
100%	100%	99%	97%	94%	91%	86%	80%	73%	65%	56%	47%	38%	30%	24%	19%	14%	11%	8%	6%

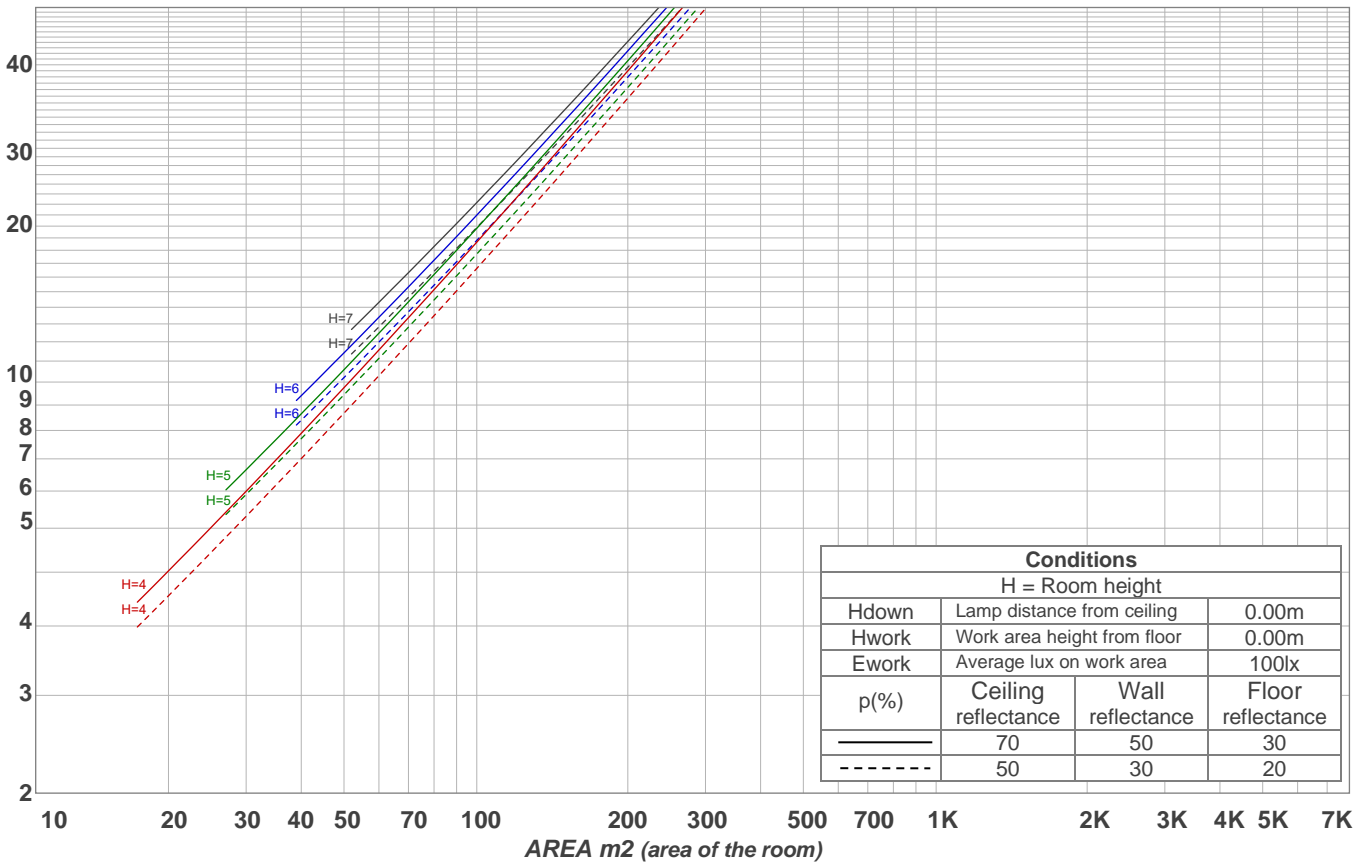
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1136	1134	1120	1098	1066	1023	967	896	812	720	622	518	417	332	260	201	153	116	86	64
100%	100%	99%	97%	94%	90%	85%	79%	71%	63%	55%	46%	37%	29%	23%	18%	13%	10%	8%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.3°	68.8°	87.8°	98.0%	95.6%

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	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83	83	83	
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79	79	79	
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75	75	75	
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71	71	71	
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67	67	67	
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	64	64	
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61	61	61	
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58	58	58	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
104 lm	236 lm	175 lm	68.2 lm	20.1 lm	7.81 lm	5.62 lm	4.34 lm	2.56 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