

Light efficiency:



Output: 939 lm

Light quality:

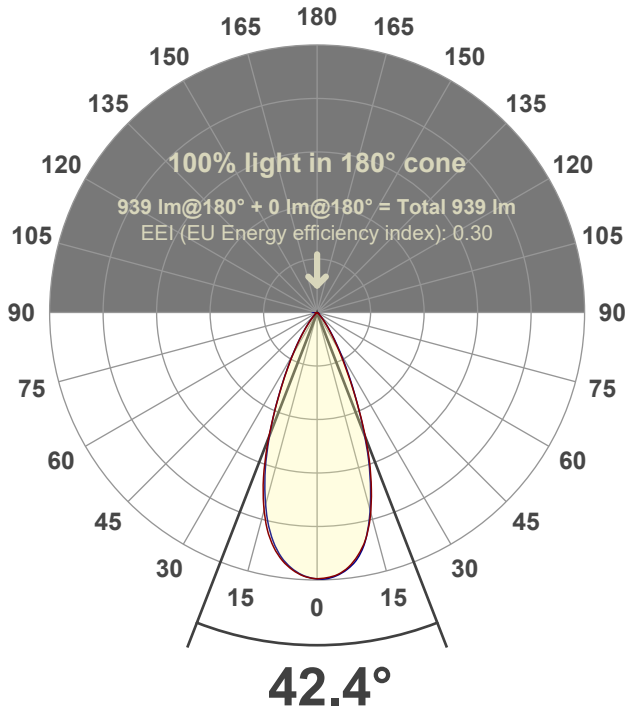


Peak: 1701 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-WF-RD-91A-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A20-3019 60° Optic-Solite

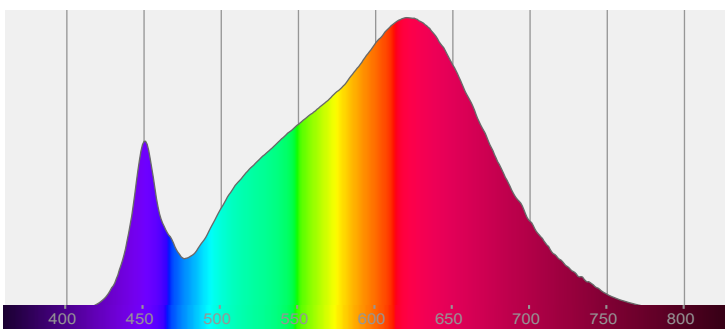
Date and time:

4/28/2022 8:27:56 PM

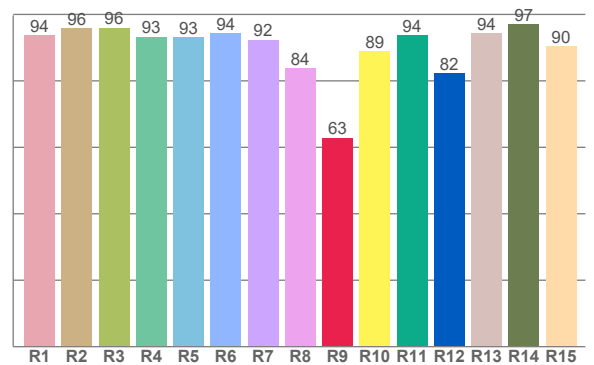
Delivered Lumens

939

Spectra



CRI: 92.8 (R1-R8)



Color parameters

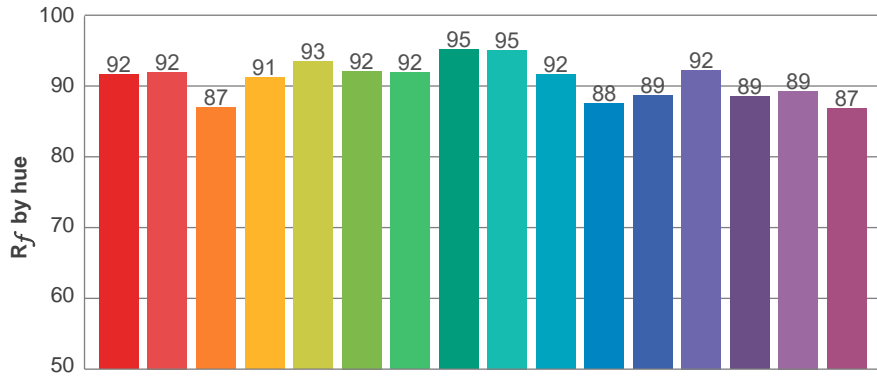
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	62.8	91.0	101.7	89.8	0.434	0.397	0.251	0.346	-0.0023

R_f 91.0
Fidelity index R_f

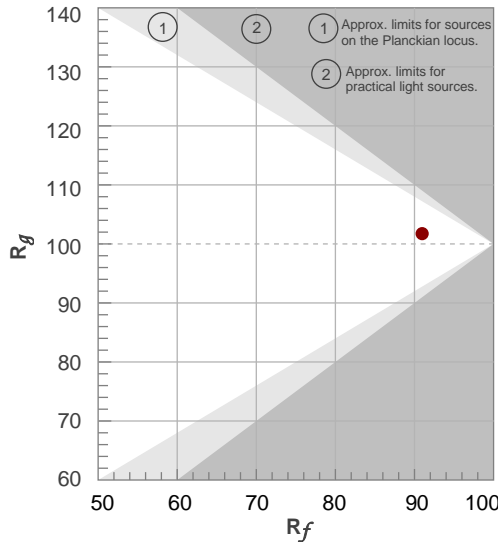
R_g 101.7
Gammut index R_g

TM30: 91.0

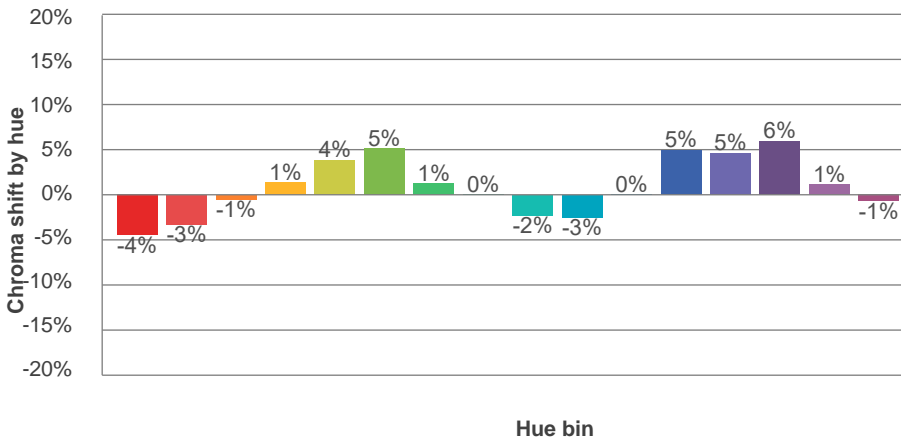
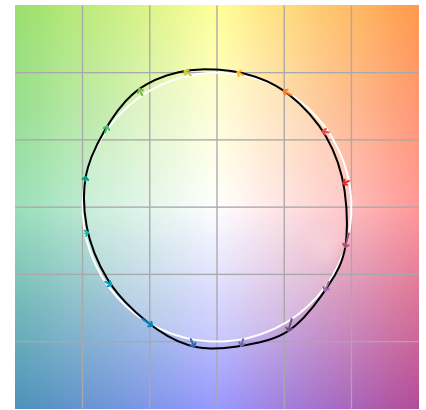
TM-30Color



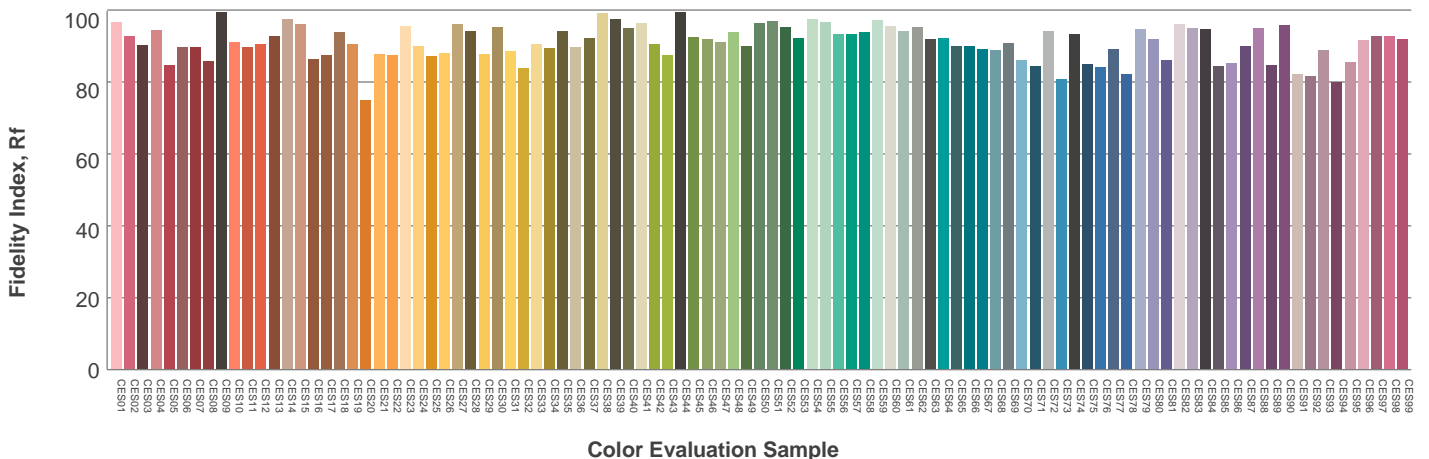
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	5%
5	93	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



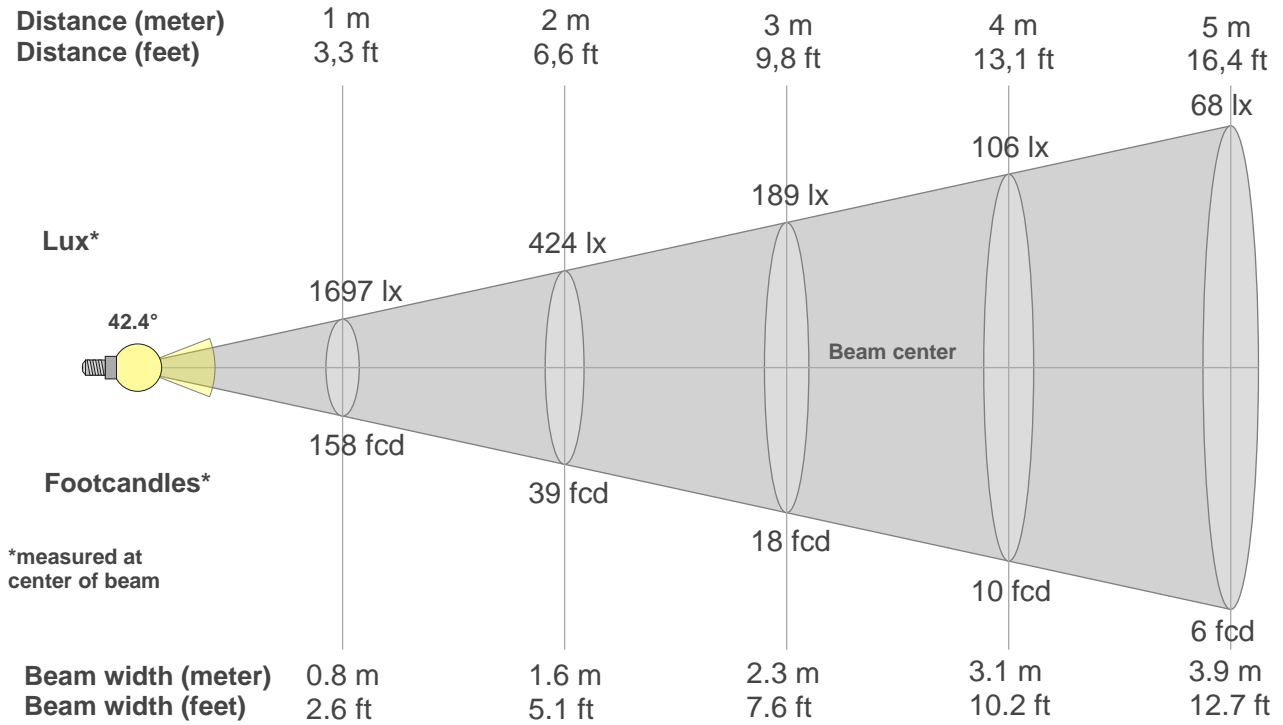
Color vector graphics



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
1697lx	424lx	189lx	106lx	68lx	47lx	35lx	27lx	21lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
157.7fcd	39.4fcd	17.5fcd	9.9fcd	6.3fcd	4.4fcd	3.2fcd	2.5fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

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°
1697	1693	1680	1653	1611	1555	1483	1380	1254	1113	960	791	631	490	375	286	218	166	125	94
100%	100%	99%	97%	95%	92%	87%	81%	74%	66%	57%	47%	37%	29%	22%	17%	13%	10%	7%	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°
1697	1698	1685	1659	1621	1565	1485	1371	1238	1094	940	778	629	504	397	308	236	179	136	101
100%	100%	99%	98%	96%	92%	87%	81%	73%	64%	55%	46%	37%	30%	23%	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°
1697	1689	1669	1639	1597	1537	1460	1362	1245	1110	953	794	644	512	404	319	248	189	141	105
100%	100%	98%	97%	94%	91%	86%	80%	73%	65%	56%	47%	38%	30%	24%	19%	15%	11%	8%	6%

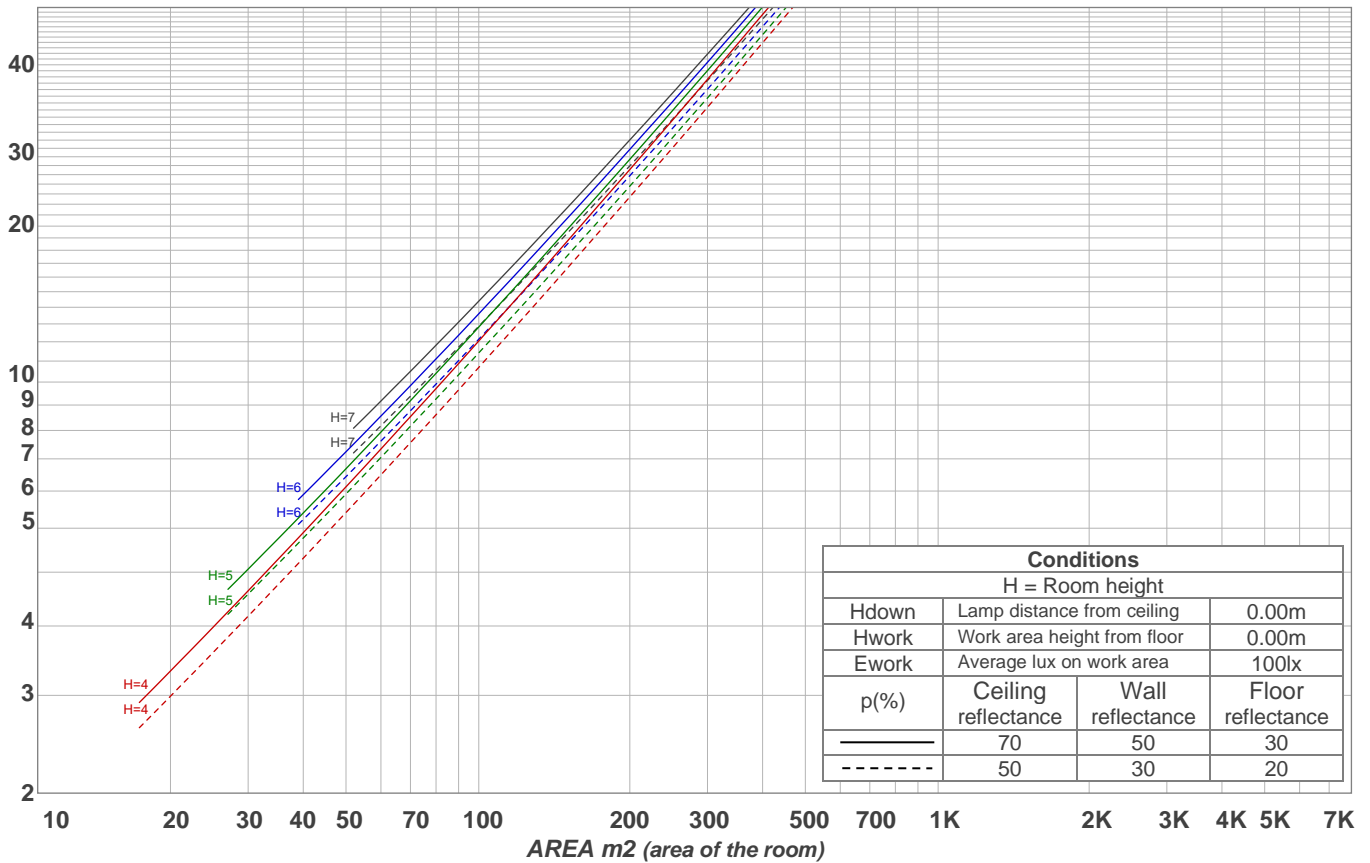
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1697	1687	1666	1633	1585	1518	1433	1329	1208	1076	931	784	643	514	410	323	251	192	144	109
100%	99%	98%	96%	93%	89%	84%	78%	71%	63%	55%	46%	38%	30%	24%	19%	15%	11%	9%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.4°	68.9°	88.2°	97.8%	95.4%

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	106	111	109	107	105	105	103	102	101	100	98	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	89	94	90	87	91	88	86	89	87	85	83	83	83	
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79	79	79	
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74	74	74	
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71	71	71	
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67	67	67	
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64	64	64	
9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61	61	61	
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58	58	58	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
155 lm	354 lm	263 lm	103 lm	30.9 lm	12.1 lm	8.68 lm	7.40 lm	4.24 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