

Light efficiency:



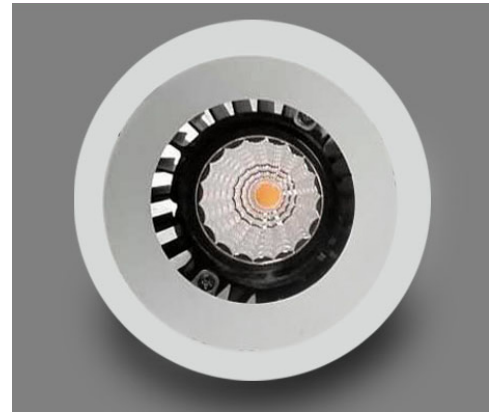
Output: 1014 lm

Light quality:

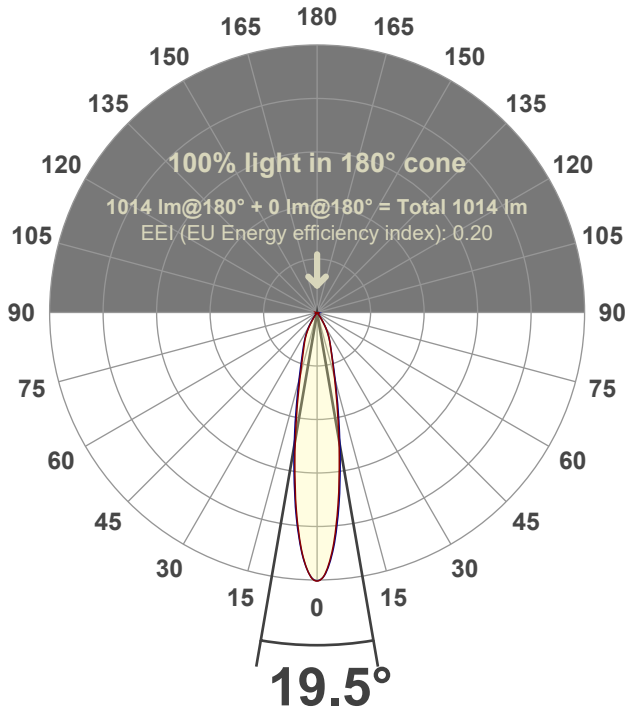


Peak: 4747 cd

Power: 15.0 W



Beam angle



Test number:

GR-O-F-A14-3022-SP-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3022 15° Optic-Solite

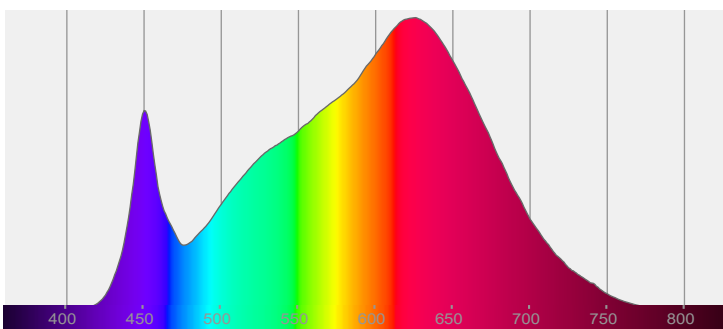
Date and time:

3/24/2022 4:02:09 PM

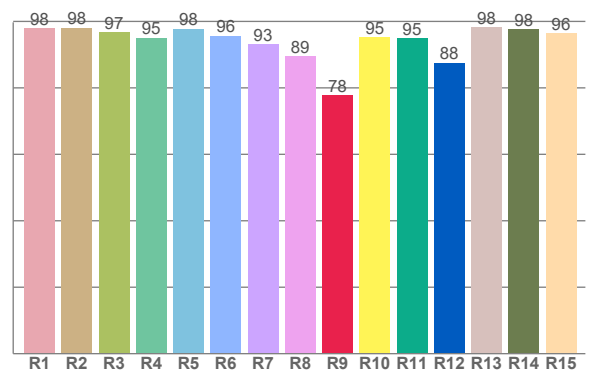
Delivered Lumens

1014

Spectra



CRI: 95.5 (R1-R8)



Color parameters

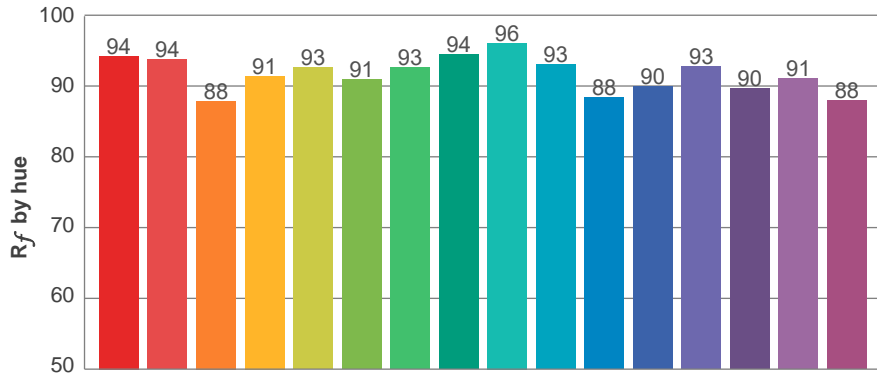
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	95.5	77.7	91.8	103.8	90.8	0.423	0.384	0.250	0.341	-0.0064

R_f 91.8
Fidelity index R_f

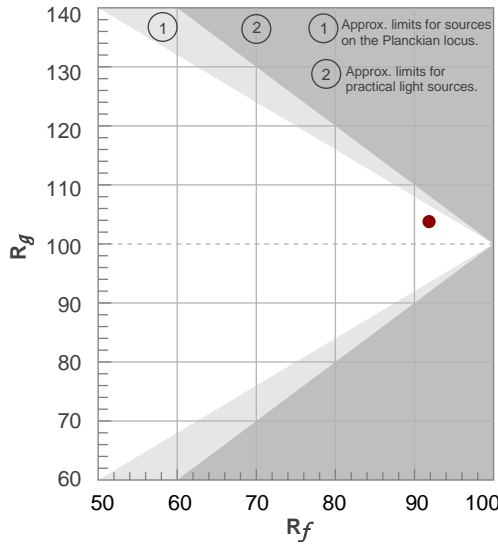
R_g 103.8
Gammut index R_g

TM30: 91.8

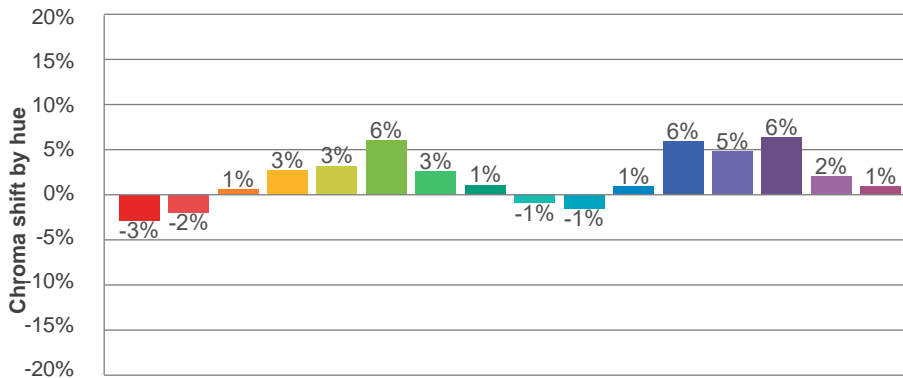
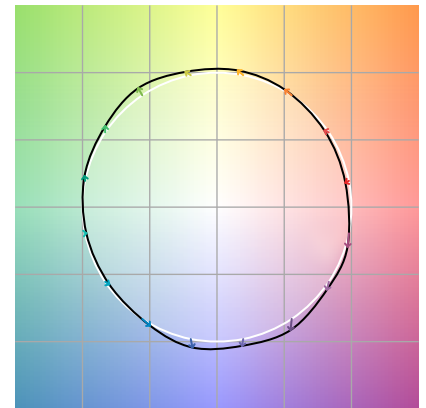
TM-30Color



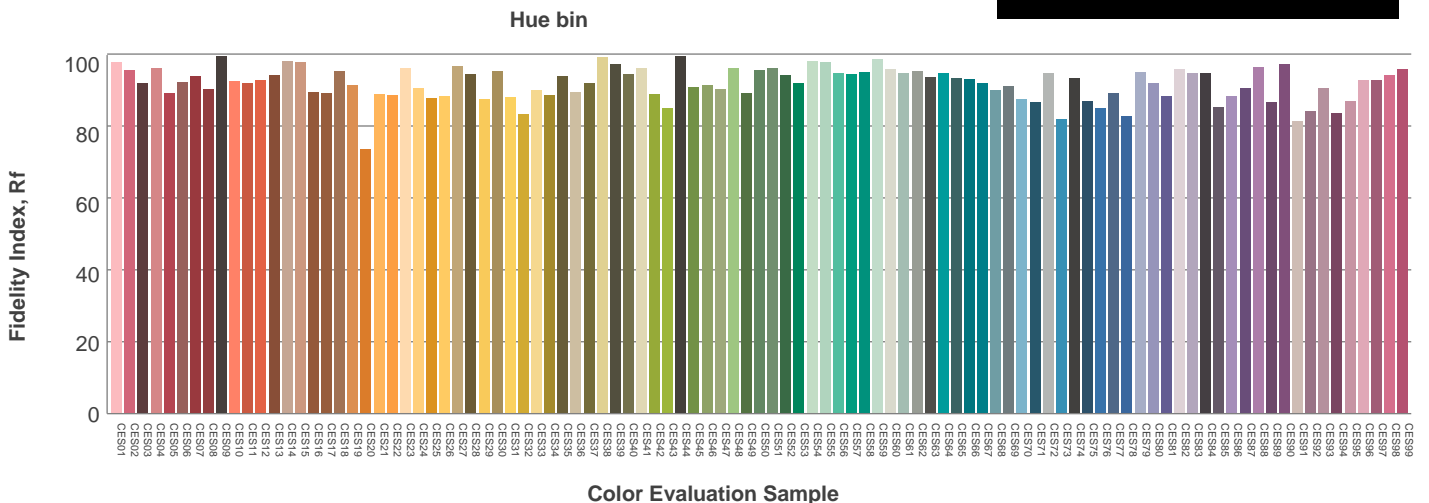
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-1%	3%
11	88	1%	8%
12	90	6%	2%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-6%
16	88	1%	-10%



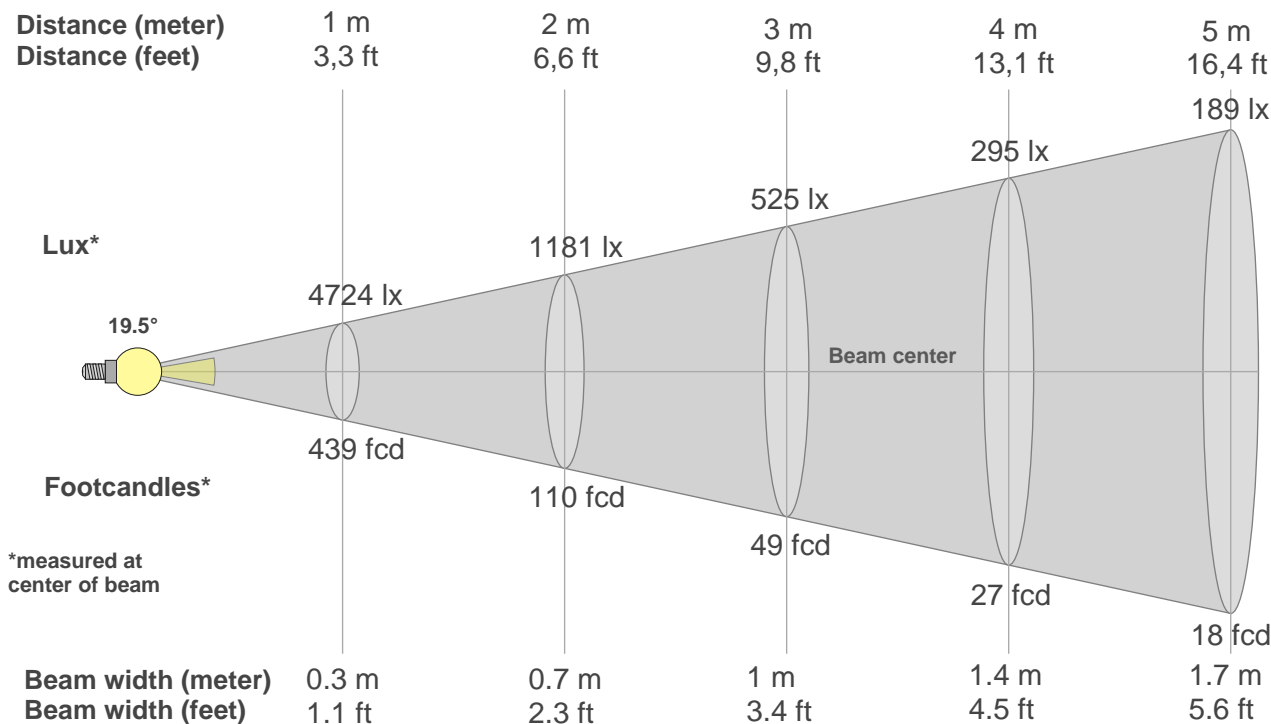
Color vector graphics



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
4724lx	1181lx	525lx	295lx	189lx	131lx	96lx	74lx	58lx	47lx	39lx	33lx	28lx	24lx	21lx	18lx	16lx	15lx	13lx	12lx
438.9fcd	109.7fcd	48.8fcd	27.4fcd	17.6fcd	12.2fcd	9fcd	6.9fcd	5.4fcd	4.4fcd	3.6fcd	3fcd	2.6fcd	2.2fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd

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°
4724	4578	4149	3515	2853	2253	1750	1358	1074	887	746	639	555	480	401	318	238	167	109	70
100%	97%	88%	74%	60%	48%	37%	29%	23%	19%	16%	14%	12%	10%	8%	7%	5%	4%	2%	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°
4724	4602	4199	3594	2955	2356	1838	1420	1125	913	757	640	548	461	379	299	223	156	104	72
100%	97%	89%	76%	63%	50%	39%	30%	24%	19%	16%	14%	12%	10%	8%	6%	5%	3%	2%	2%

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°
4724	4572	4153	3542	2860	2246	1732	1331	1039	850	719	619	535	453	369	283	204	138	88	53
100%	97%	88%	75%	61%	48%	37%	28%	22%	18%	15%	13%	11%	10%	8%	6%	4%	3%	2%	1%

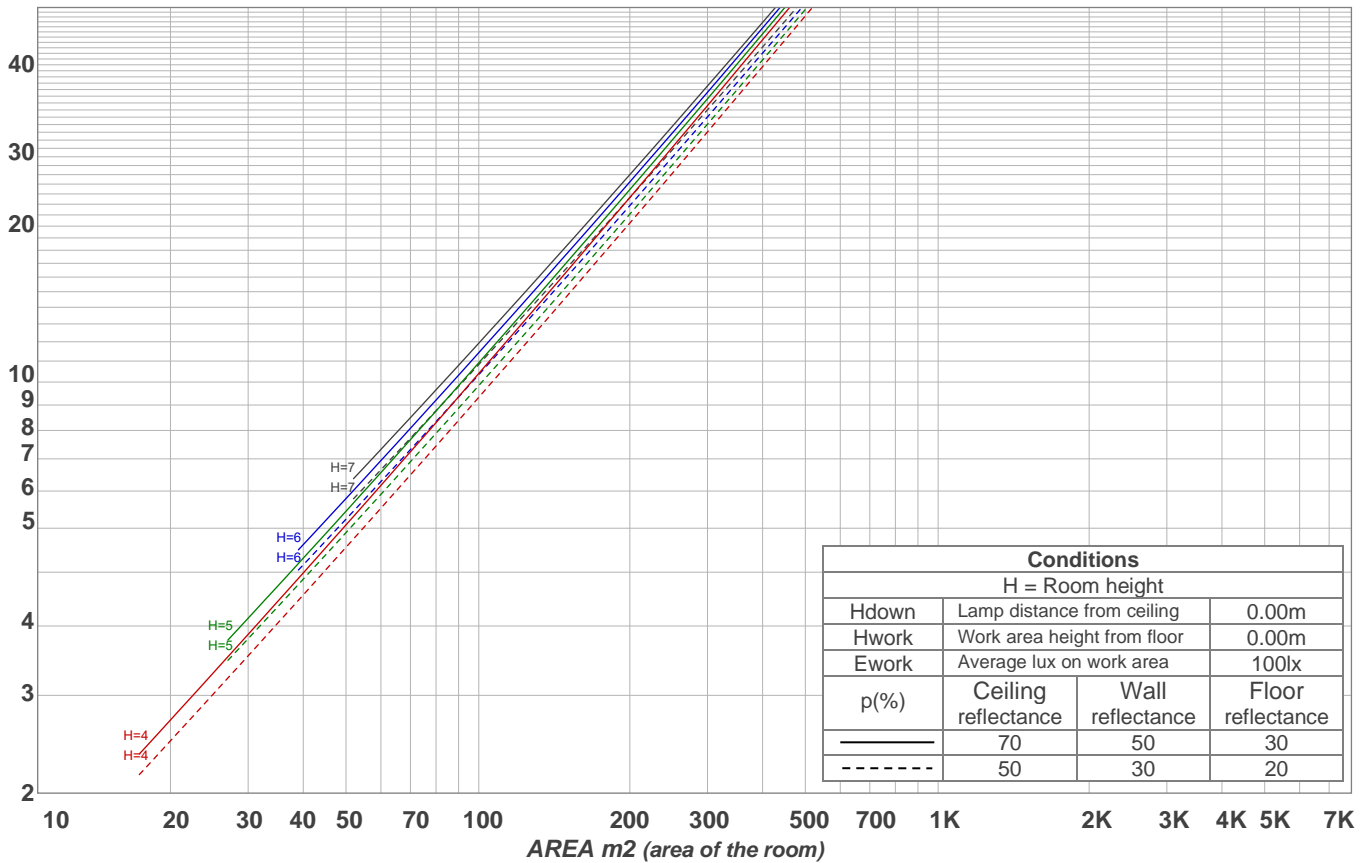
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4724	4571	4173	3600	2950	2355	1845	1434	1126	908	767	657	564	479	397	316	238	170	116	77
100%	97%	88%	76%	62%	50%	39%	30%	24%	19%	16%	14%	12%	10%	8%	7%	5%	4%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.5°	51.7°	70.8°	99.0%	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	
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84	84	84	
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78	78	78	
7	92	85	80	77	91	85	80	77	83	80	77	82	79	76	81	78	76	75	75	75	
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70	70	70	
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68	68	68	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
318 lm	351 lm	231 lm	87.1 lm	14.1 lm	4.11 lm	3.43 lm	3.15 lm	3.09 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