

Light efficiency:



Output: 967 lm

Light quality:

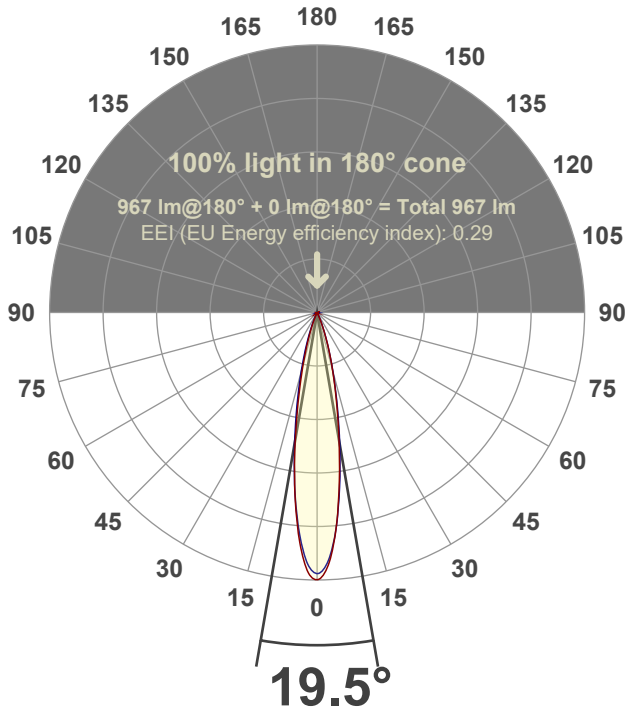


Peak: 6547 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-SP-SQ-91A-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A20-3019 15° Optic-Solite

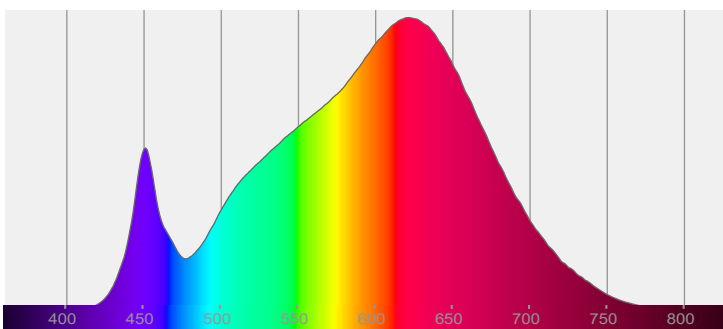
Date and time:

6/21/2022 8:46:11 PM

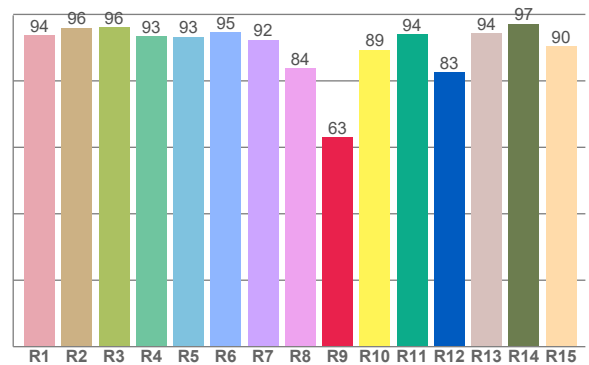
Delivered Lumens

967

Spectra



CRI: 92.9 (R1-R8)



Color parameters

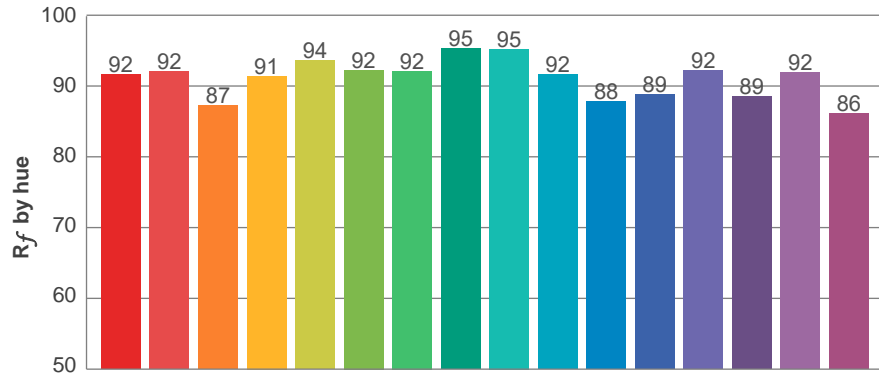
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	62.9	91.1	101.6	89.9	0.436	0.398	0.252	0.346	-0.0022

R_f 91.1
Fidelity index R_f

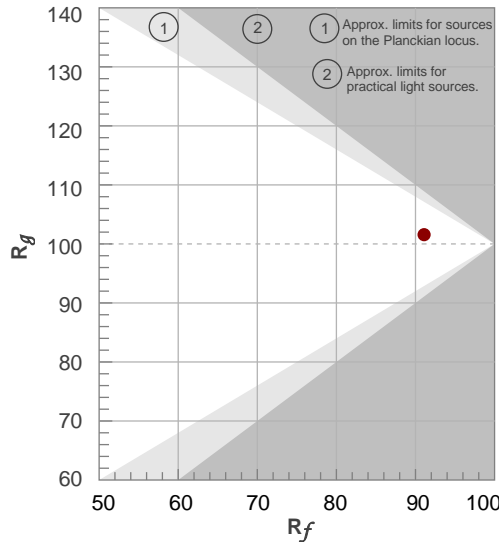
R_g 101.6
Gammut index R_g

TM30: 91.1

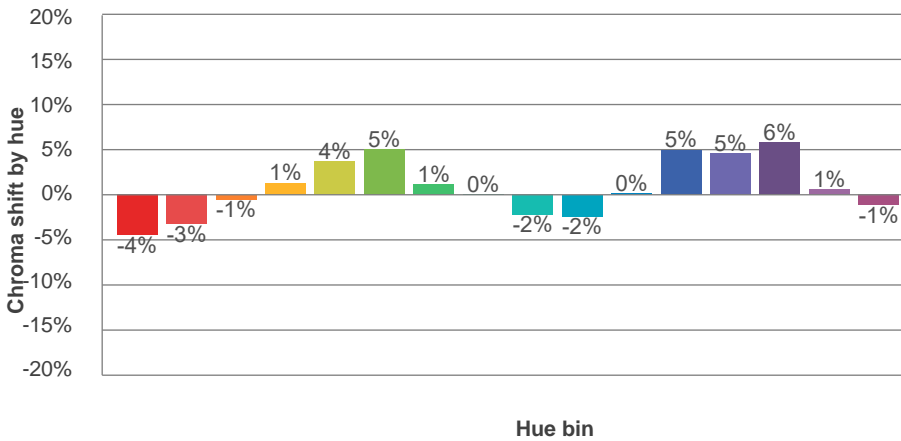
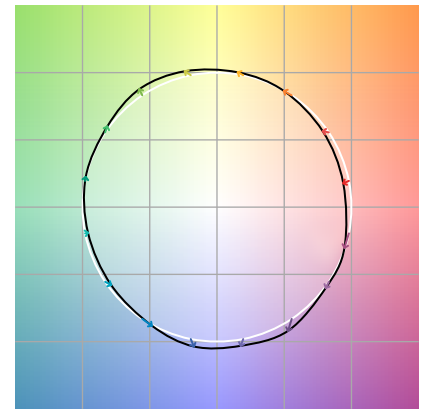
TM-30Color



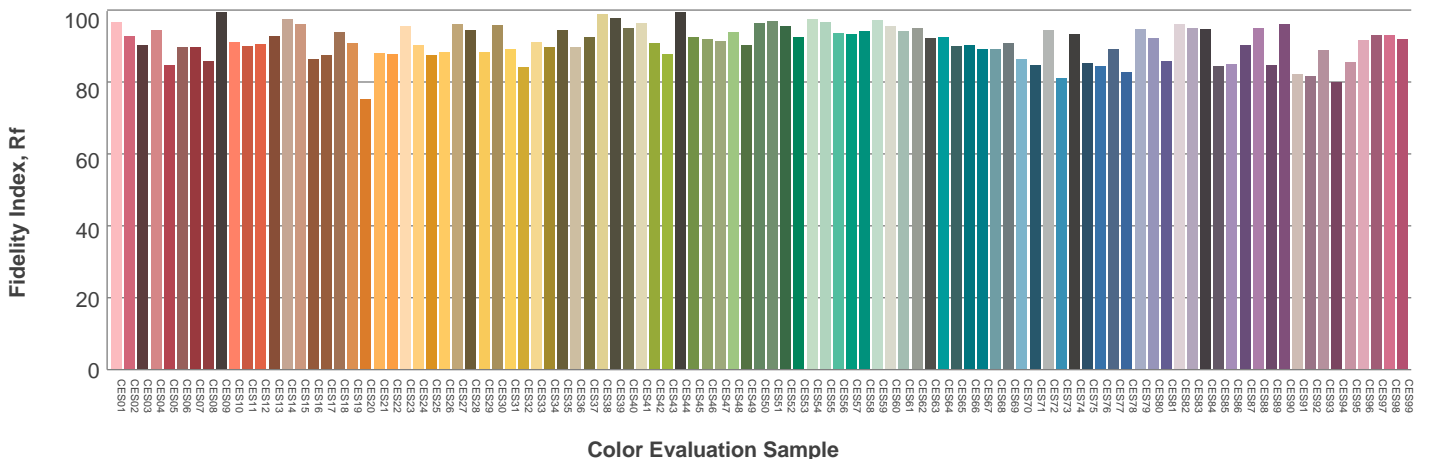
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	4%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



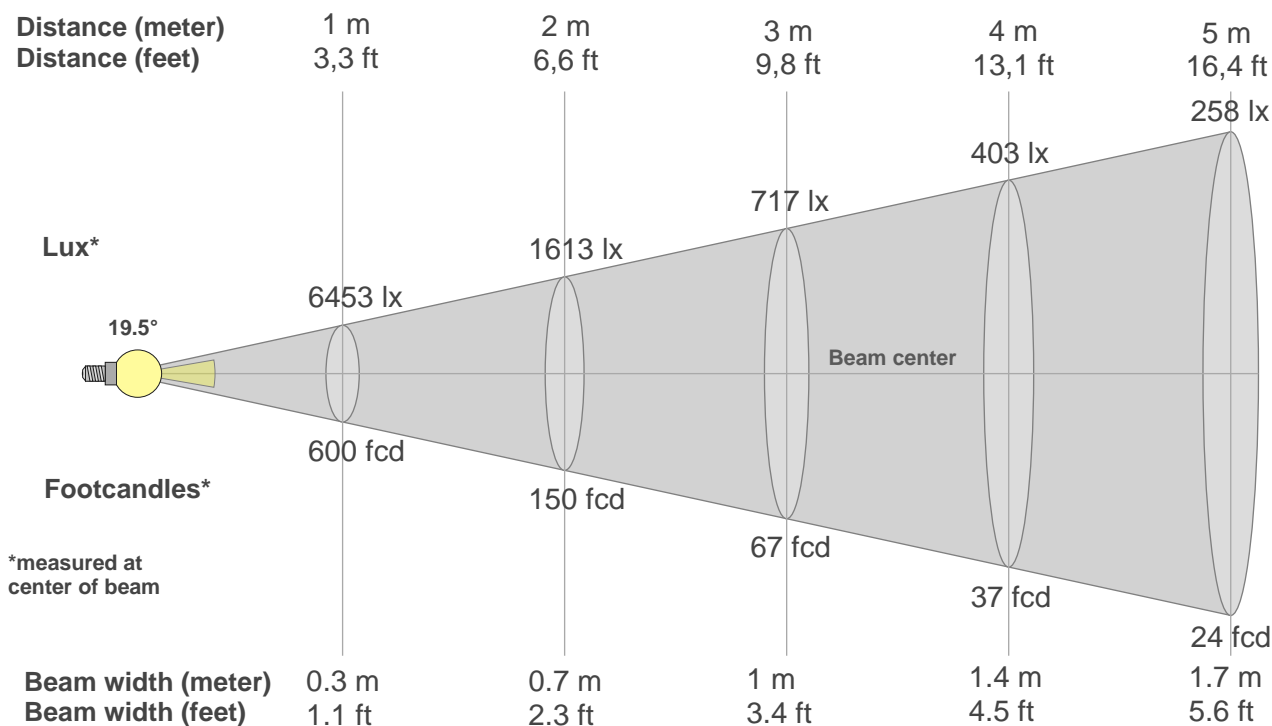
Color vector graphics



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
6453lx	1613lx	717lx	403lx	258lx	179lx	132lx	101lx	80lx	65lx	53lx	45lx	38lx	33lx	29lx	25lx	22lx	20lx	18lx	16lx
599.5fcd	149.9fcd	66.6fcd	37.5fcd	24fcd	16.7fcd	12.2fcd	9.4fcd	7.4fcd	6fcd	5fcd	4.2fcd	3.5fcd	3.1fcd	2.7fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6453	6452	6276	6068	5699	5329	4886	4423	3969	3529	3092	2726	2361	2050	1767	1503	1287	1070	896	726
100%	100%	97%	94%	88%	83%	76%	69%	62%	55%	48%	42%	37%	32%	27%	23%	20%	17%	14%	11%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6453	6307	6175	5969	5653	5333	4903	4474	4042	3609	3190	2807	2424	2107	1797	1527	1291	1066	891	716
100%	98%	96%	93%	88%	83%	76%	69%	63%	56%	49%	43%	38%	33%	28%	24%	20%	17%	14%	11%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6453	6456	6373	6068	5764	5364	4927	4477	4004	3531	3088	2645	2267	1933	1617	1370	1122	934	756	604
100%	100%	99%	94%	89%	83%	76%	69%	62%	55%	48%	41%	35%	30%	25%	21%	17%	14%	12%	9%

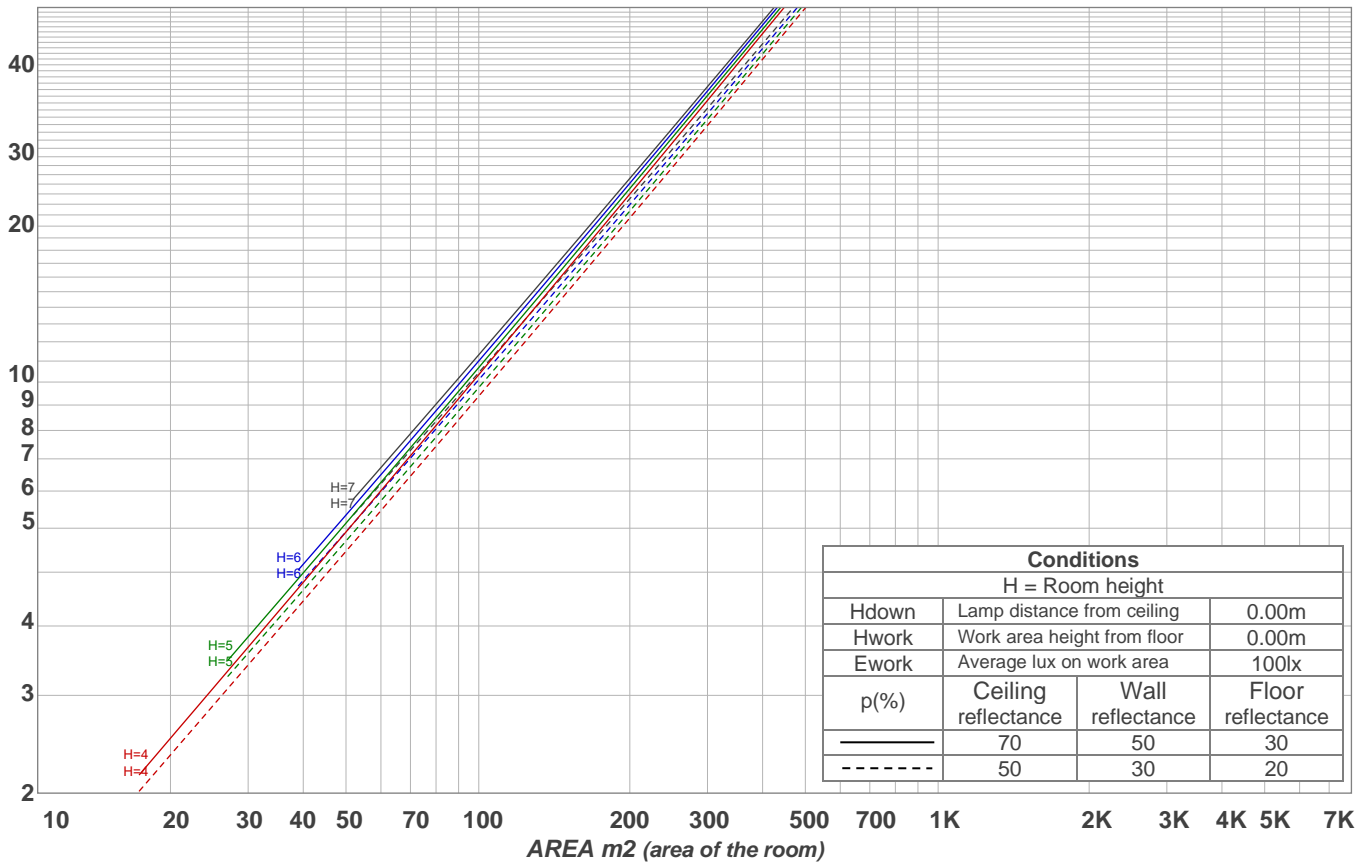
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6453	6292	6196	5924	5621	5270	4868	4462	4028	3593	3190	2799	2433	2117	1801	1549	1299	1088	903	730
100%	98%	96%	92%	87%	82%	75%	69%	62%	56%	49%	43%	38%	33%	28%	24%	20%	17%	14%	11%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.5°	38.6°	49.6°	98.6%	98.0%

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	96	
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94	93	92	
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91	90	89	
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89	88	87	
5	103	97	94	91	101	96	93	90	95	92	90	93	91	89	92	90	88	87	86	85	
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	84	83	
7	98	92	88	86	97	92	88	85	90	87	85	89	87	85	89	86	84	83	82	81	
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	80	79	
9	94	88	84	82	93	87	84	81	87	83	81	86	83	81	85	83	81	80	79	78	
10	92	86	82	80	91	85	82	80	85	82	79	84	81	79	84	81	79	78	77	76	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
434 lm	415 lm	84.2 lm	11.6 lm	4.82 lm	3.58 lm	3.86 lm	4.80 lm	4.41 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