

Light efficiency:



Output: 595 lm

Light quality:

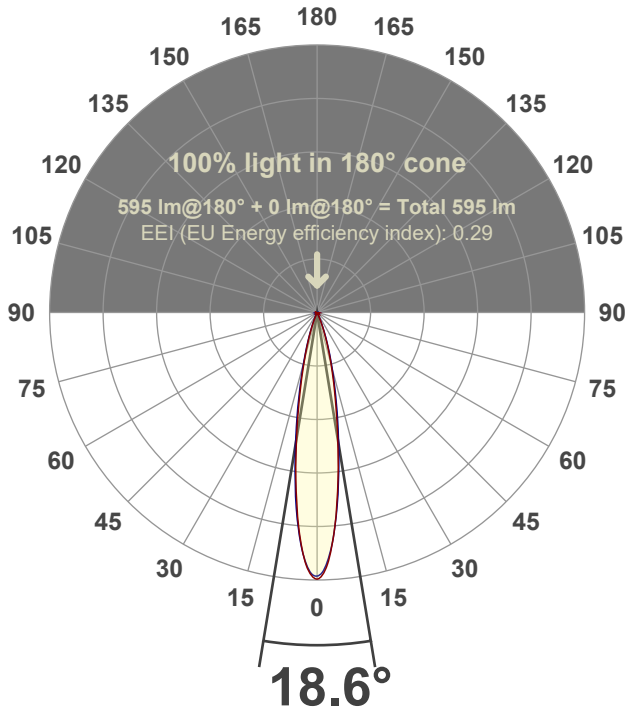


Peak: 4301 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-F-A14-3019-SP-SQ-91A-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3019 15° Optic-Solite

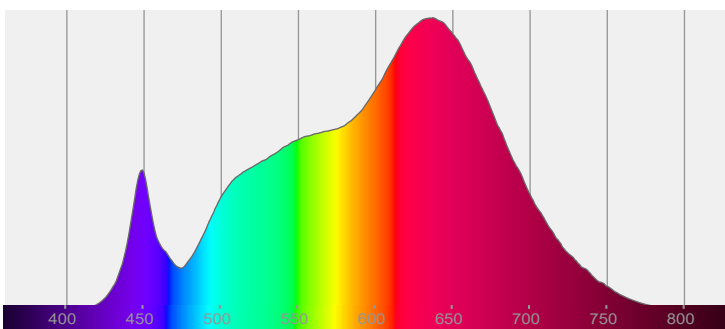
Date and time:

6/30/2022 1:04:09 PM

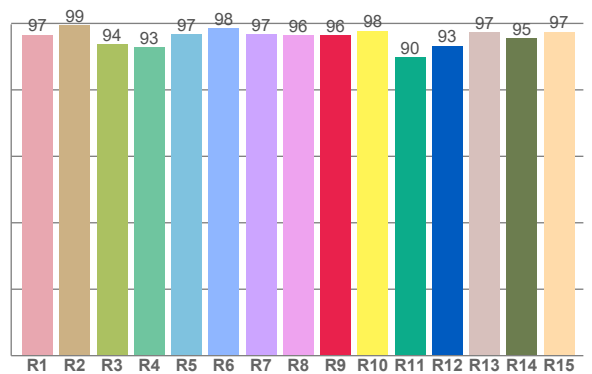
Delivered Lumens

595

Spectra



CRI: 96.3 (R1-R8)

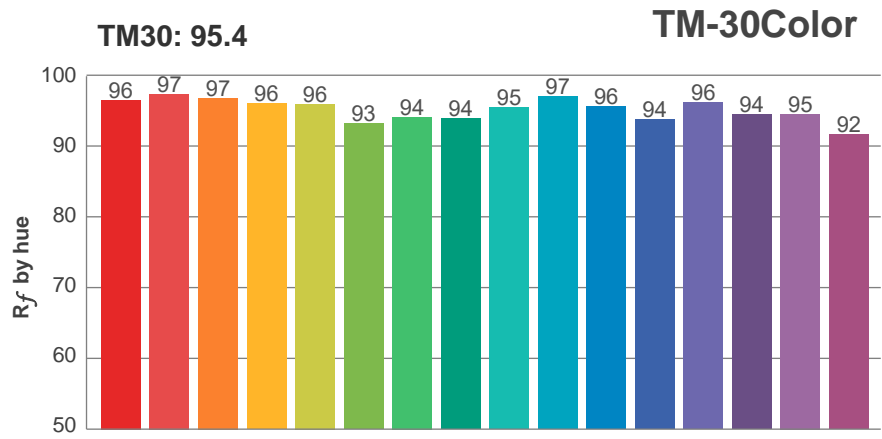


Color parameters

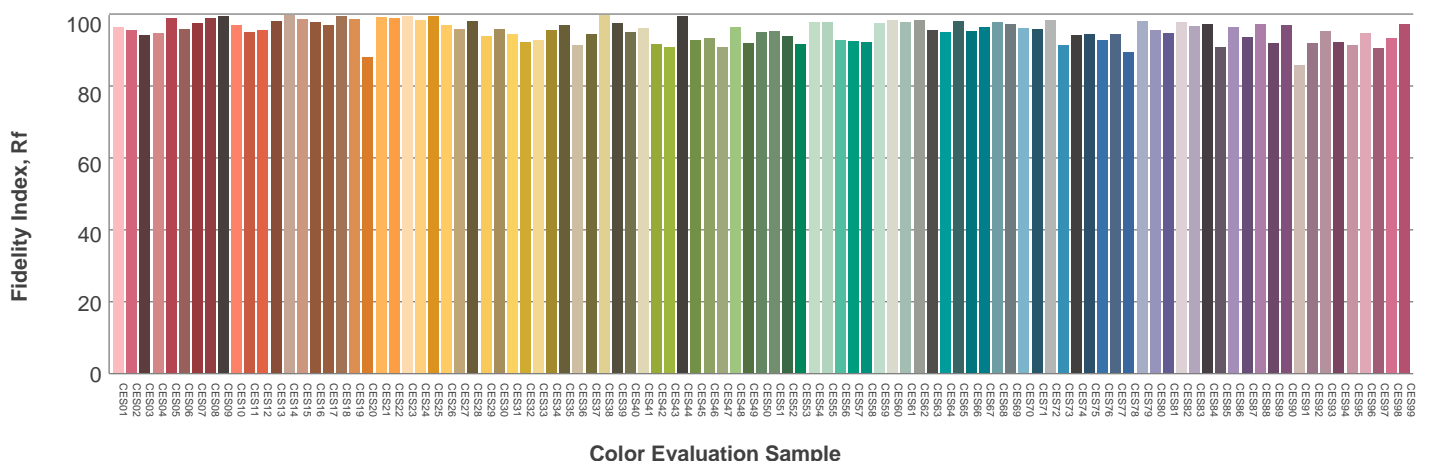
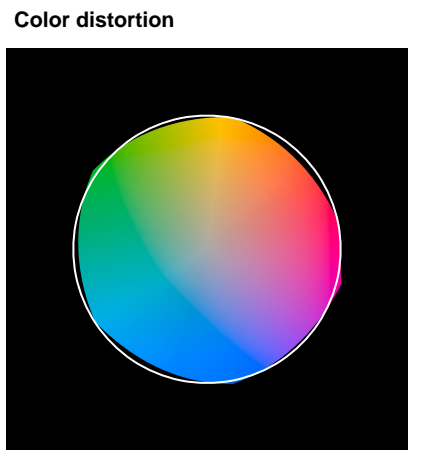
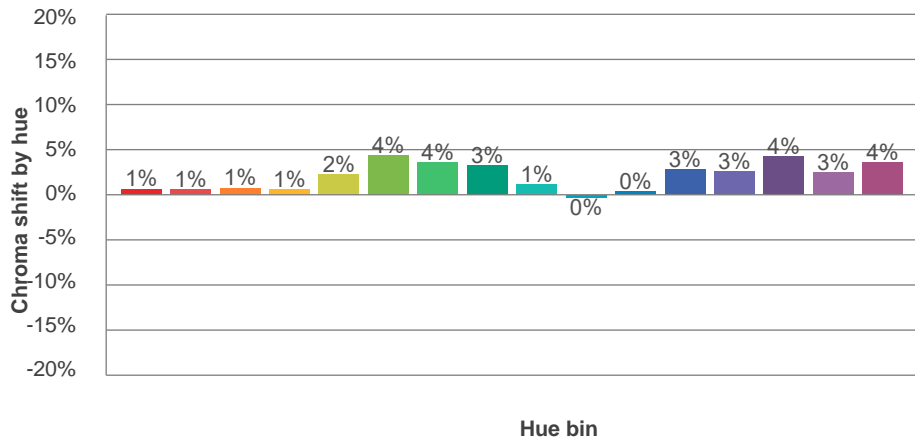
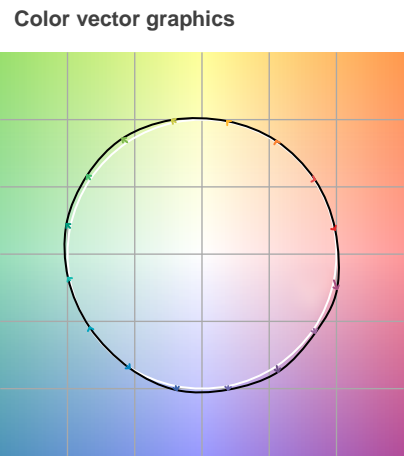
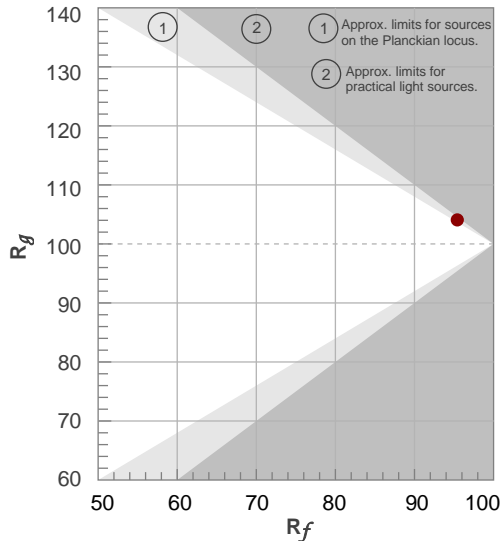
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.3	96.5	95.4	104.1	94.9	0.436	0.403	0.251	0.347	-0.0004

R_f 95.4
Fidelity index R_f

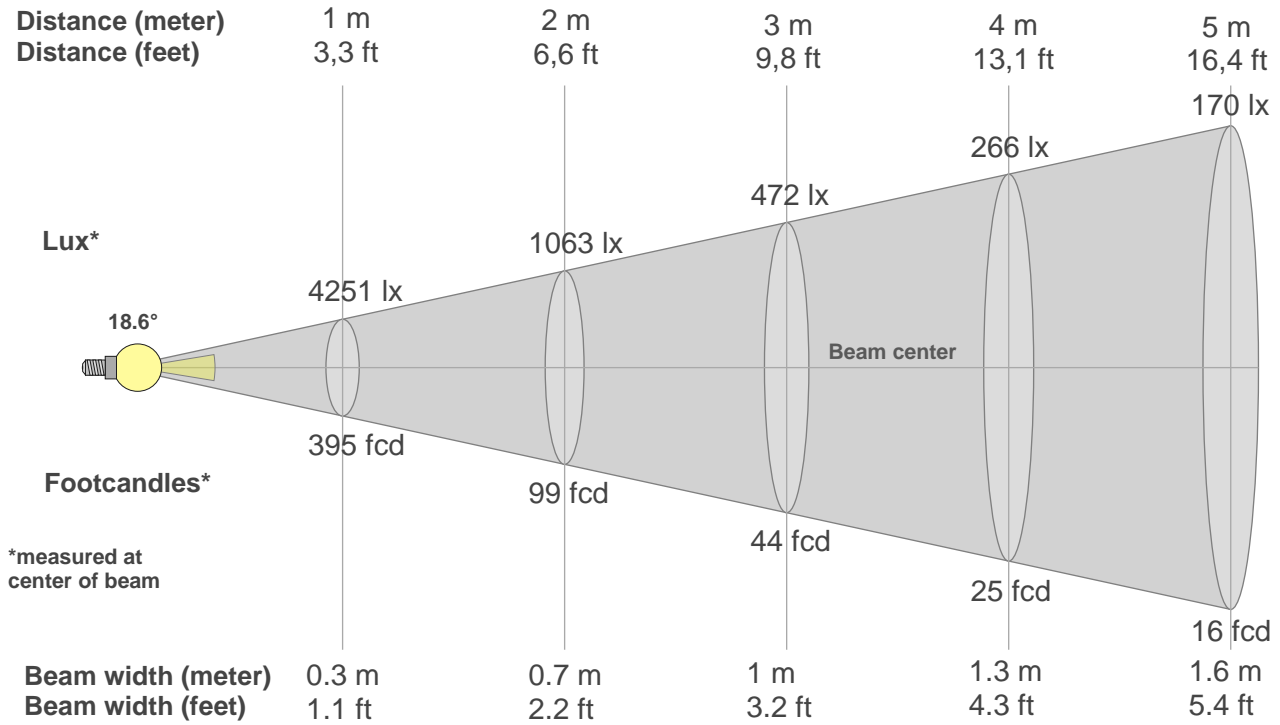
R_g 104.1
Gammut index R_g



Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	96	2%	3%
6	93	4%	2%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	95	3%	-2%
16	92	4%	-6%



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
4251lx	1063lx	472lx	266lx	170lx	118lx	87lx	66lx	52lx	43lx	35lx	30lx	25lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
394.9fcd	98.7fcd	43.9fcd	24.7fcd	15.8fcd	11fcd	8.1fcd	6.2fcd	4.9fcd	3.9fcd	3.3fcd	2.7fcd	2.3fcd	2fcd	1.8fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd	1fcd

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°
4251	4201	4102	3905	3654	3388	3076	2763	2463	2165	1892	1652	1413	1235	1057	904	768	638	534	429
100%	99%	96%	92%	86%	80%	72%	65%	58%	51%	45%	39%	33%	29%	25%	21%	18%	15%	13%	10%

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°
4251	4195	4045	3873	3657	3387	3116	2821	2527	2251	1987	1734	1520	1307	1132	967	818	693	568	475
100%	99%	95%	91%	86%	80%	73%	66%	59%	53%	47%	41%	36%	31%	27%	23%	19%	16%	13%	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°
4251	4212	4123	3950	3703	3447	3124	2801	2483	2166	1867	1609	1352	1154	963	801	669	539	445	350
100%	99%	97%	93%	87%	81%	73%	66%	58%	51%	44%	38%	32%	27%	23%	19%	16%	13%	10%	8%

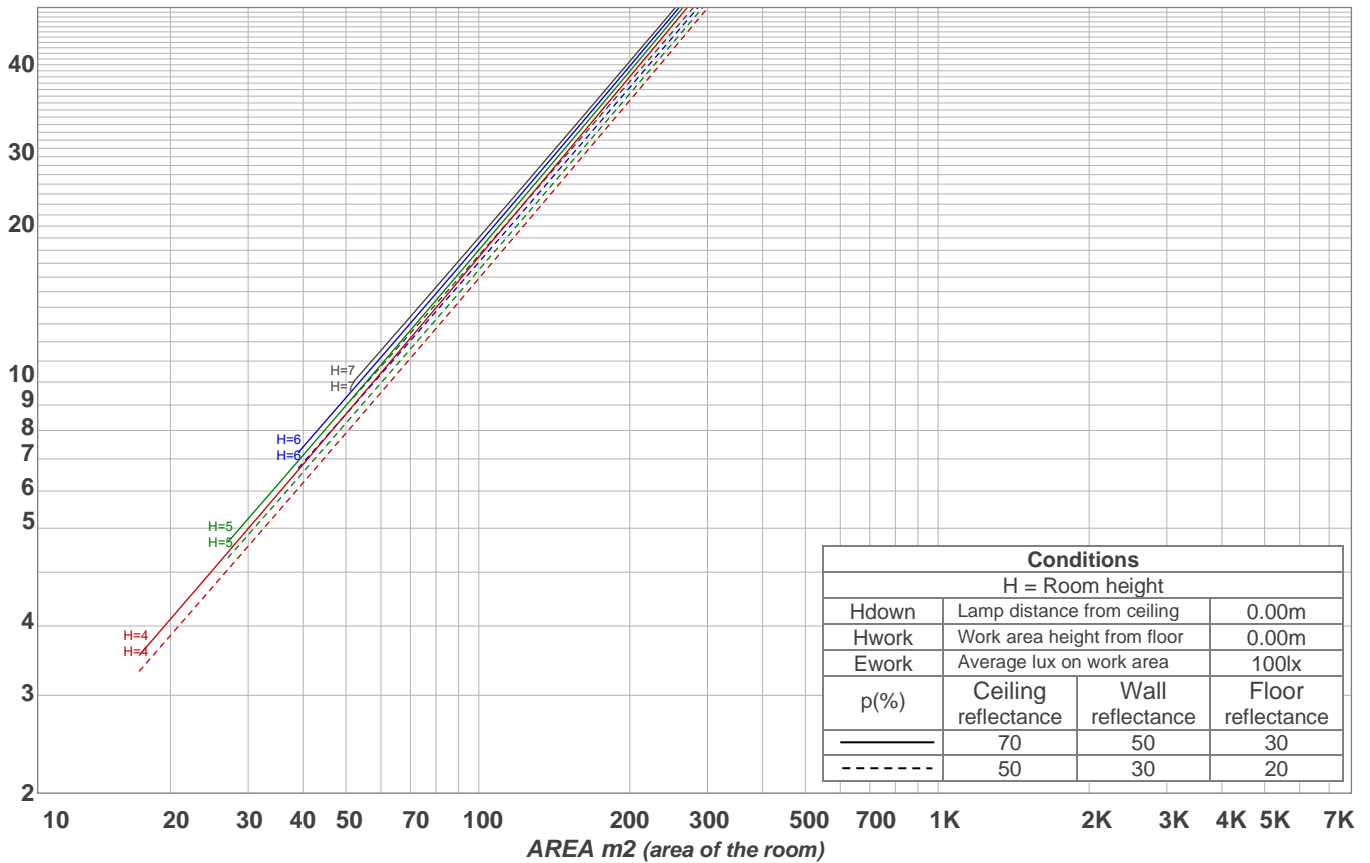
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
4251	4210	4095	3935	3740	3469	3198	2885	2566	2264	1977	1695	1465	1234	1043	870	711	591	472	384
100%	99%	96%	93%	88%	82%	75%	68%	60%	53%	47%	40%	34%	29%	25%	20%	17%	14%	11%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.6°	37.6°	48.4°	98.4%	97.7%

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	106	100	97	94	104	99	96	93	98	95	92	96	93	91	94	92	90	89	88	87	
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	86	85	
6	100	95	91	88	99	94	90	88	93	90	87	92	89	87	90	88	86	85	84	83	
7	98	92	88	86	97	92	88	86	91	88	85	90	87	85	89	86	84	83	82	81	
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	81	80	
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	79	78	
10	92	86	83	80	91	86	82	80	85	82	80	84	81	79	83	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°
276 lm	248 lm	48.7 lm	6.72 lm	2.96 lm	2.78 lm	2.98 lm	3.30 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