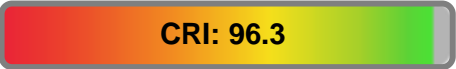


Light efficiency:



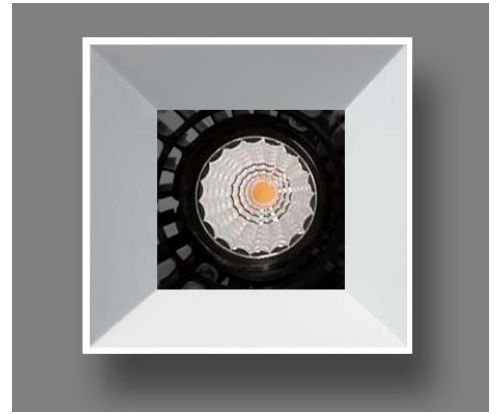
Output: 870 lm

Light quality:

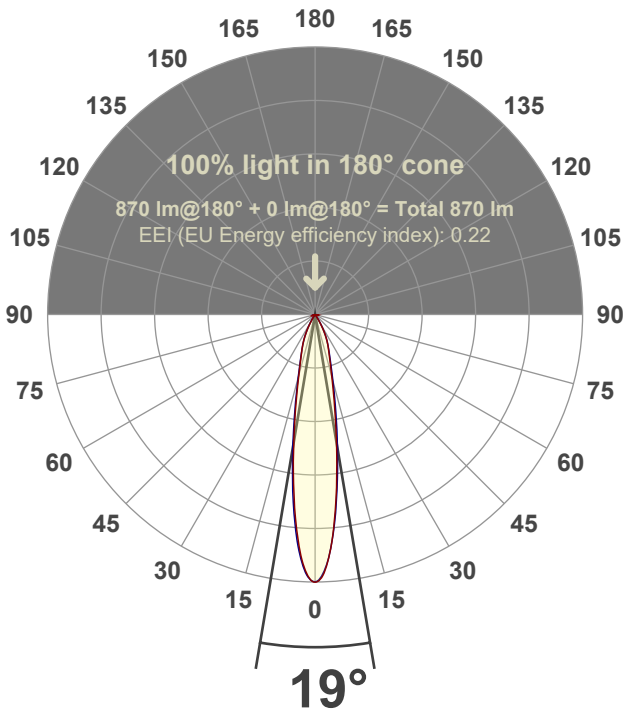


Peak: 4399 cd

Power: 14.6 W



Beam angle



Test number:

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

Luminaire Model:

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

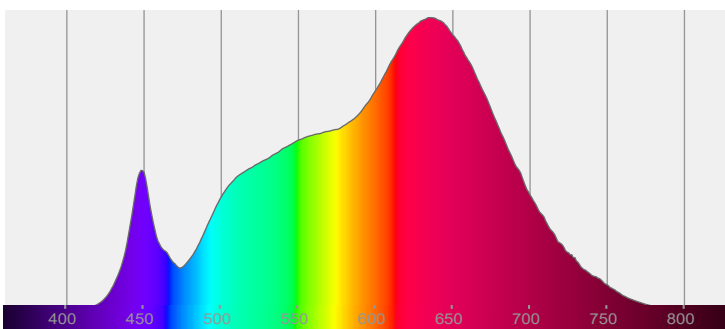
Date and time:

6/30/2022 1:08:47 PM

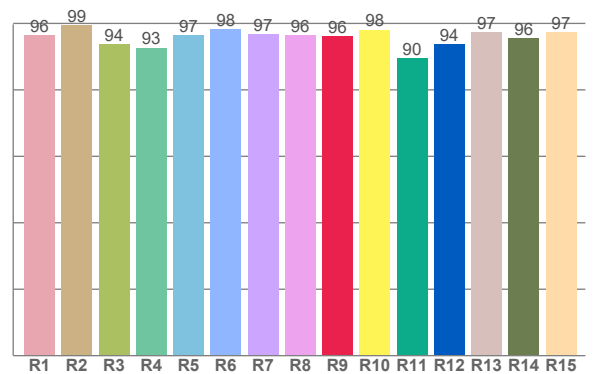
Delivered Lumens

870

Spectra



CRI: 96.3 (R1-R8)



Color parameters

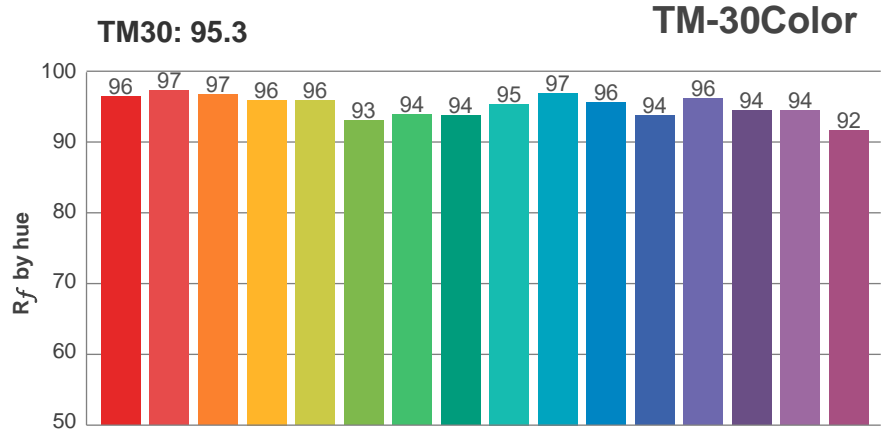
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.3	96.0	95.3	104.2	94.9	0.436	0.402	0.251	0.347	-0.0006

R_f 95.3

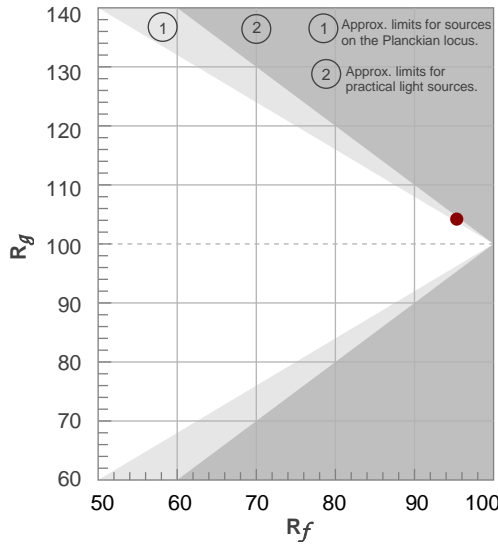
Fidelity index R_f

R_g 104.2

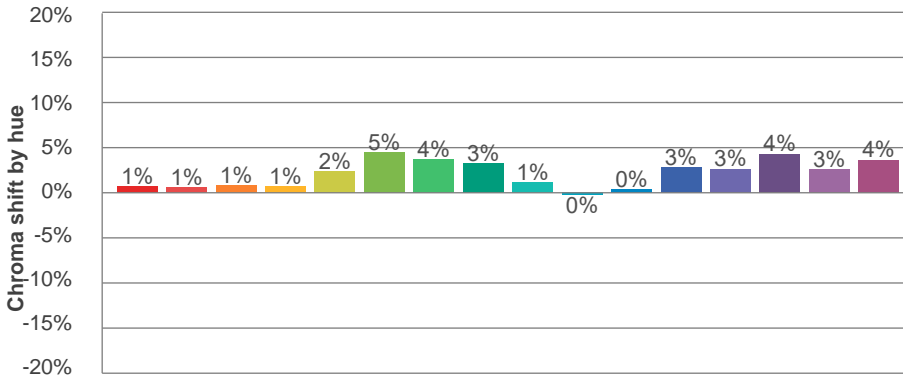
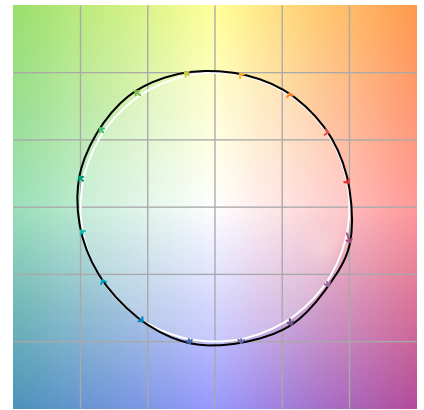
Gammut index R_g



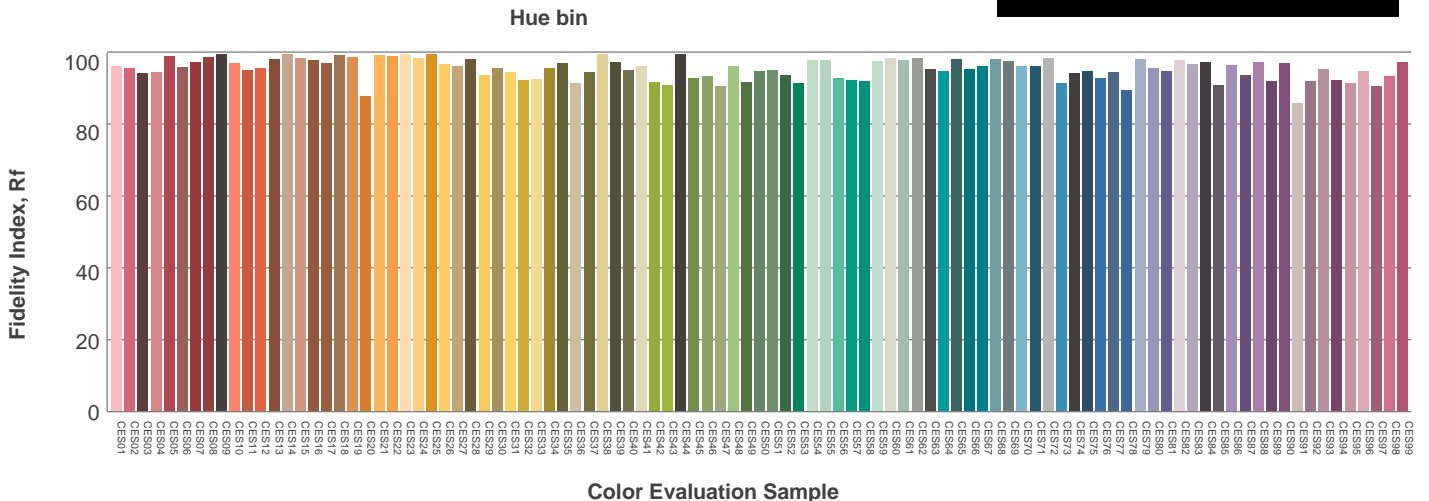
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	96	2%	3%
6	93	5%	2%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	94	3%	-2%
16	92	4%	-6%



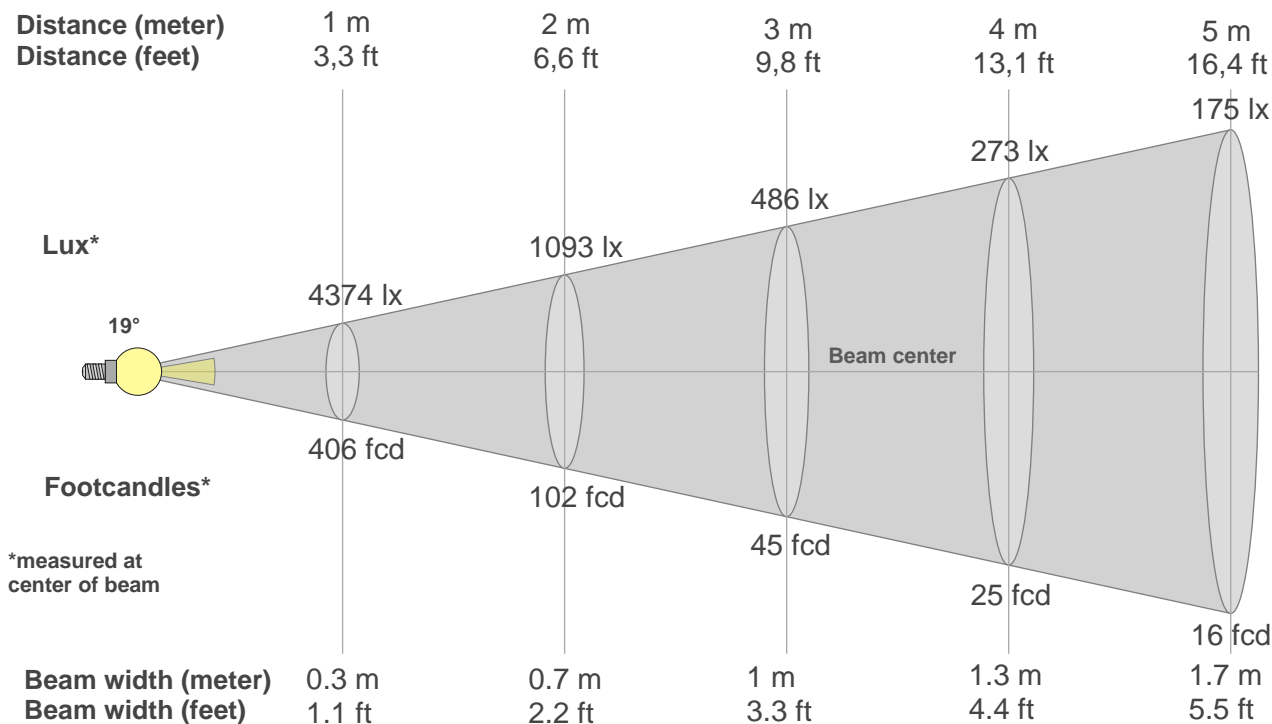
Color vector graphics



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
4374lx	1093lx	486lx	273lx	175lx	121lx	89lx	68lx	54lx	44lx	36lx	30lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
406.3fcd	101.6fcd	45.1fcd	25.4fcd	16.3fcd	11.3fcd	8.3fcd	6.3fcd	5fcd	4.1fcd	3.4fcd	2.8fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	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°
4374	4246	3819	3211	2593	2031	1568	1217	964	799	677	582	497	411	317	227	152	95	55	30
100%	97%	87%	73%	59%	46%	36%	28%	22%	18%	15%	13%	11%	9%	7%	5%	3%	2%	1%	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°
4374	4199	3800	3259	2665	2114	1663	1305	1034	838	696	588	497	407	317	233	160	102	69	44
100%	96%	87%	75%	61%	48%	38%	30%	24%	19%	16%	13%	11%	9%	7%	5%	4%	2%	2%	1%

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°
4374	4210	3800	3223	2591	2010	1551	1200	948	774	650	556	465	370	277	192	123	74	44	25
100%	96%	87%	74%	59%	46%	35%	27%	22%	18%	15%	13%	11%	8%	6%	4%	3%	2%	1%	1%

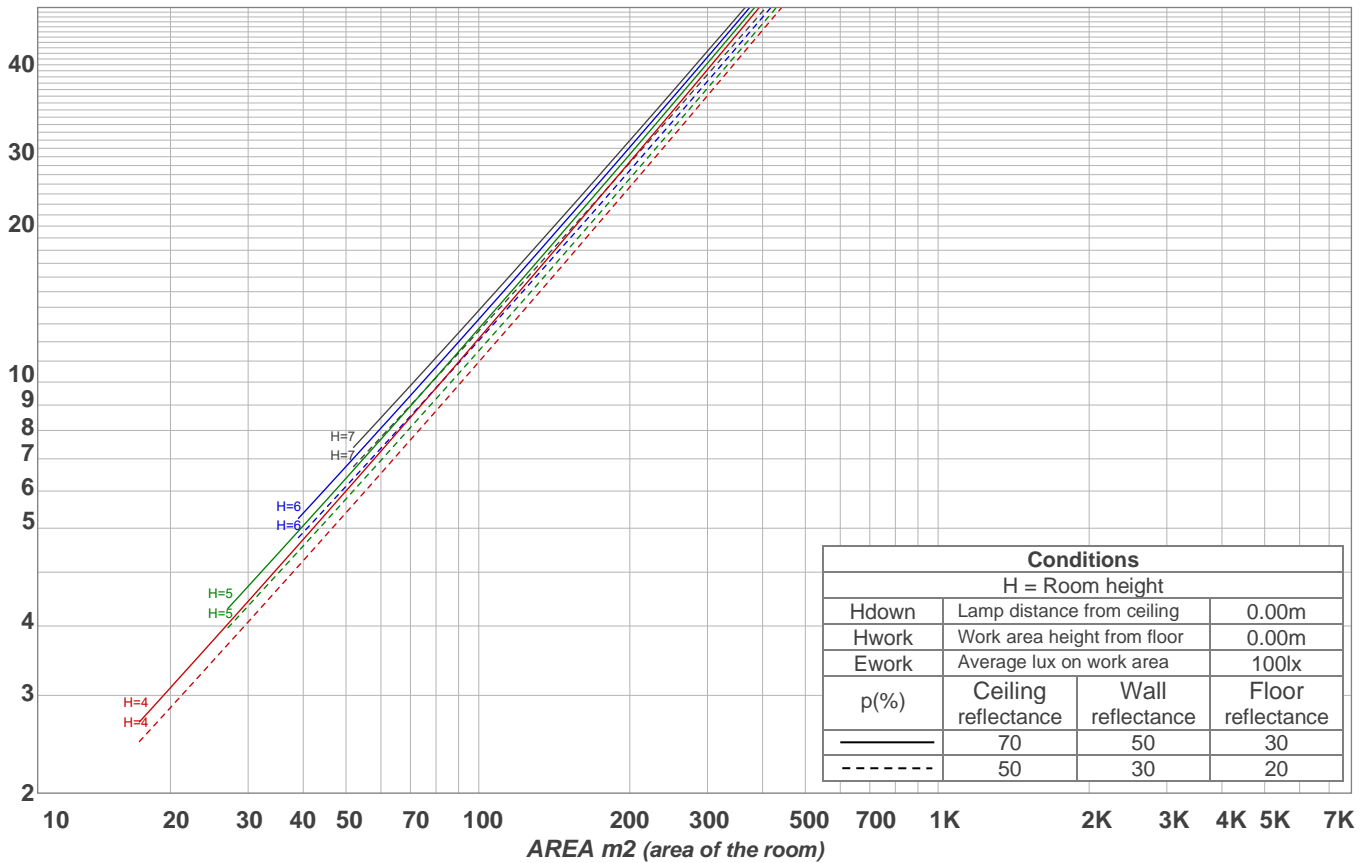
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4374	4271	3875	3310	2698	2117	1622	1238	972	792	658	550	453	360	270	193	132	87	55	34
100%	98%	89%	76%	62%	48%	37%	28%	22%	18%	15%	13%	10%	8%	6%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19°	49.7°	66.2°	98.9%	98.1%

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		
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96		
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92		
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88		
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85		
5	100	93	89	86	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82		
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	79		
7	93	86	82	79	92	86	82	79	85	81	78	84	80	78	83	80	77	76	76		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72	72		
10	85	78	74	71	85	78	74	71	77	73	71	77	73	71	76	73	71	70	70		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
289 lm	315 lm	194 lm	51.3 lm	7.09 lm	3.79 lm	3.32 lm	3.20 lm	3.18 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