

Light efficiency:



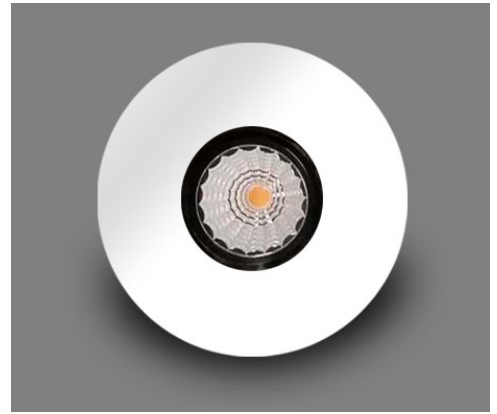
Output: 1023 lm

Light quality:

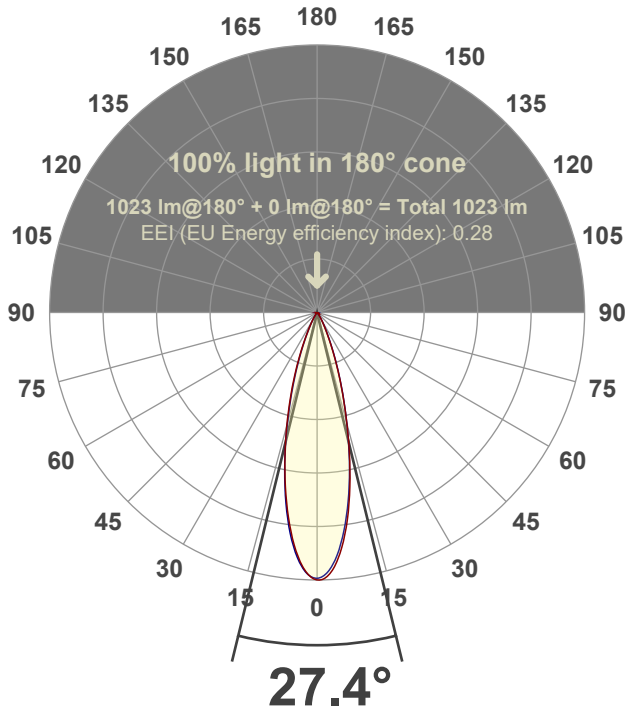


Peak: 3776 cd

Power: 21.3 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A20-3019 24° Optic-Solite

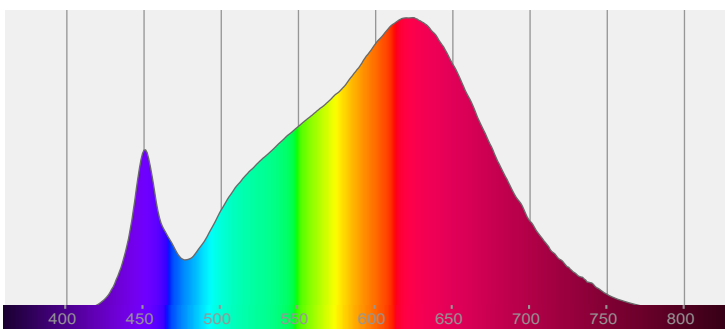
Date and time:

4/28/2022 7:46:43 PM

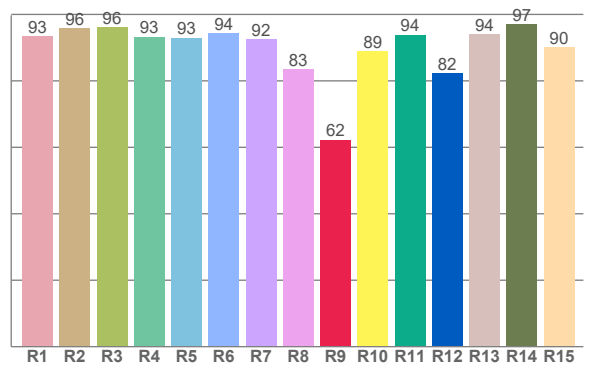
Delivered Lumens

1023

Spectra



CRI: 92.7 (R1-R8)



Color parameters

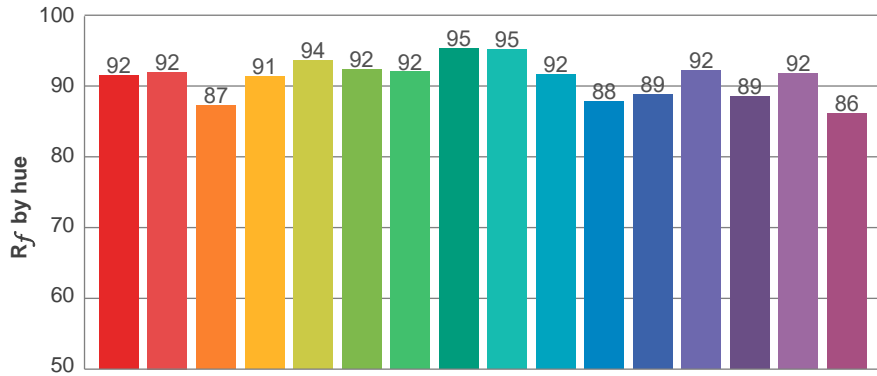
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.7	62.2	91.1	101.5	89.9	0.437	0.399	0.253	0.346	-0.0019

R_f 91.1
Fidelity index R_f

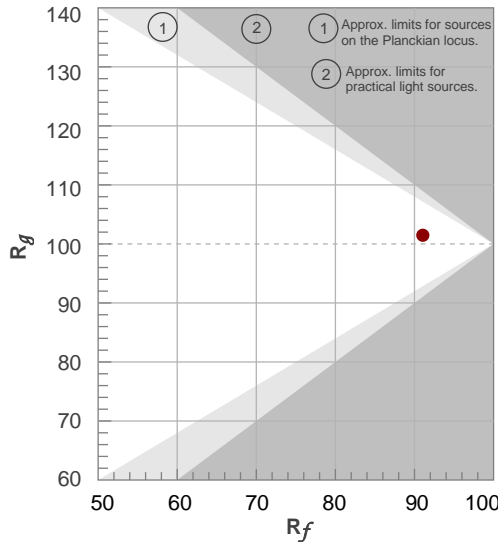
R_g 101.5
Gammut index R_g

TM30: 91.1

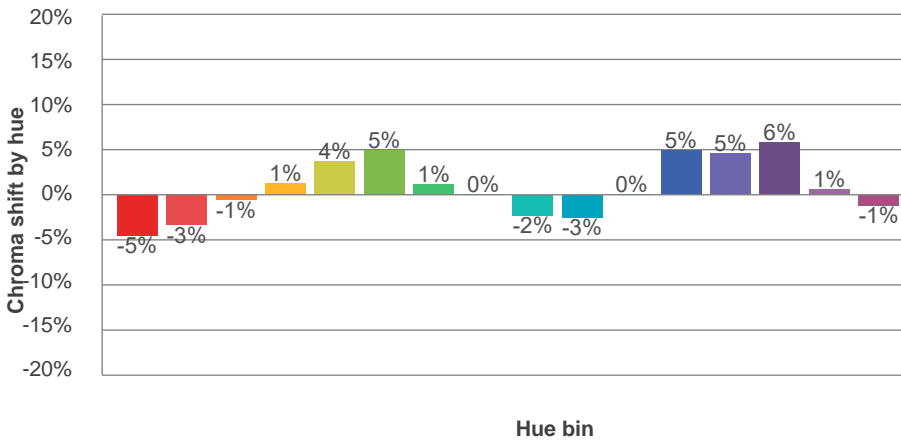
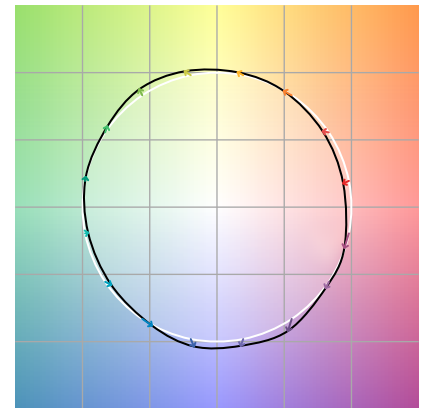
TM-30Color



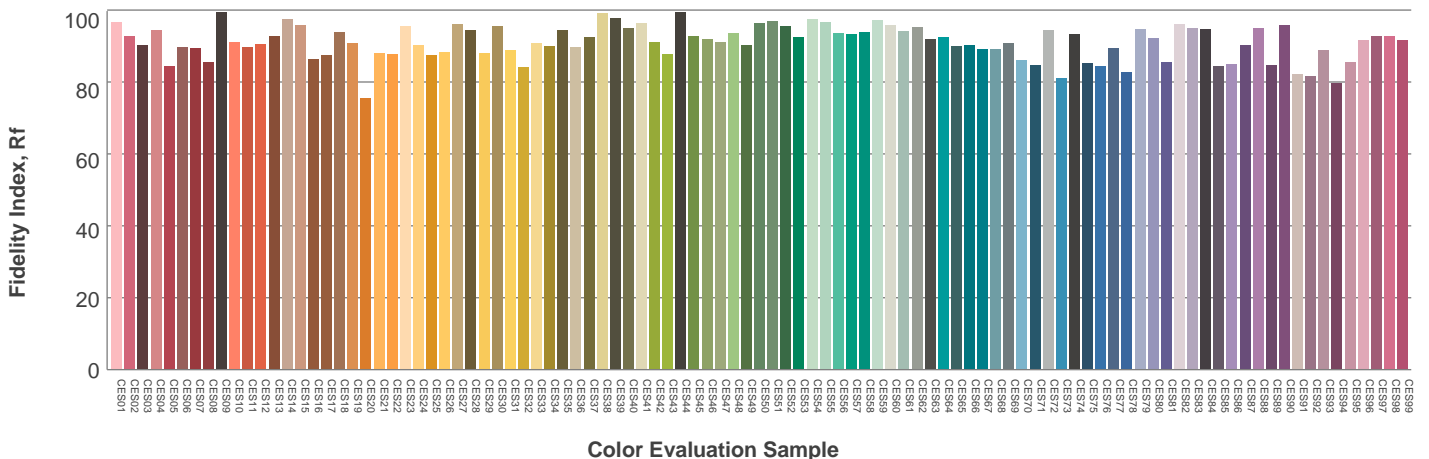
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-5%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



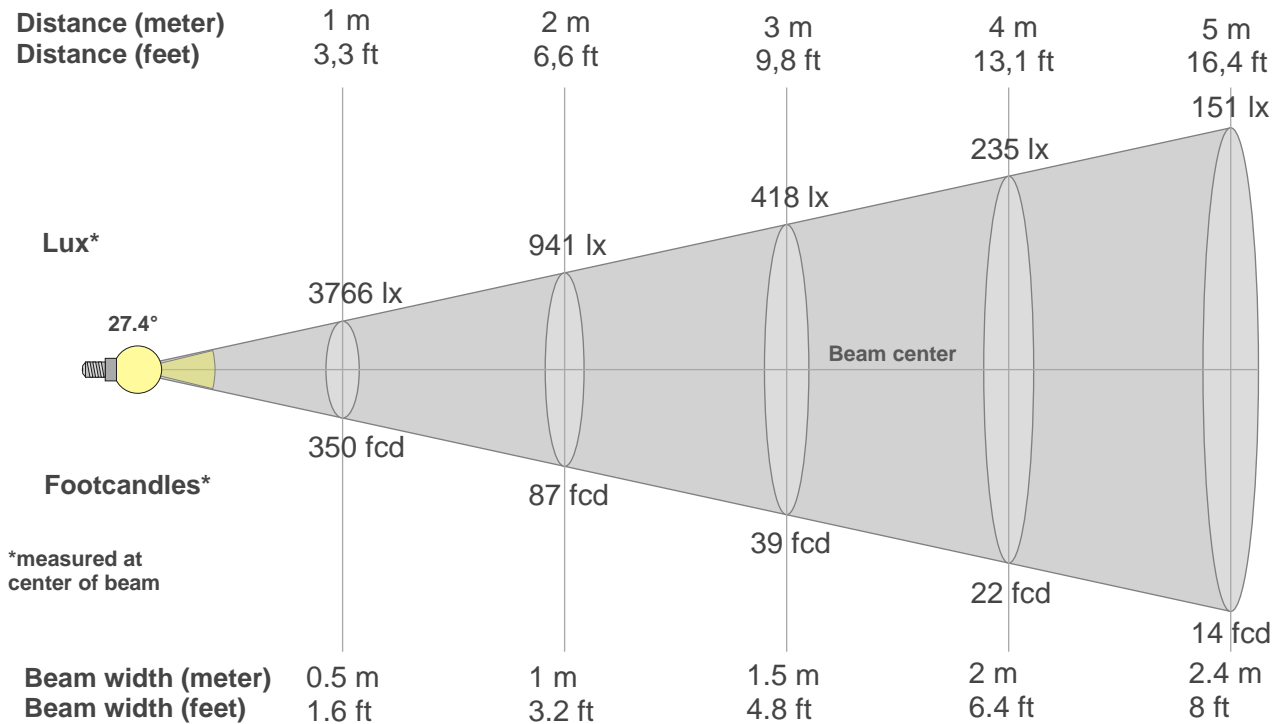
Color vector graphics



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
3766lx	941lx	418lx	235lx	151lx	105lx	77lx	59lx	46lx	38lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	10lx	9lx
349.9fcd	87.5fcd	38.9fcd	21.9fcd	14fcd	9.7fcd	7.1fcd	5.5fcd	4.3fcd	3.5fcd	2.9fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

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°
3766	3736	3592	3347	3020	2642	2242	1840	1465	1137	855	629	452	322	231	168	122	91	68	51
100%	99%	95%	89%	80%	70%	60%	49%	39%	30%	23%	17%	12%	9%	6%	4%	3%	2%	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°
3766	3691	3519	3262	2945	2589	2210	1821	1464	1147	874	646	464	327	232	167	120	86	62	44
100%	98%	93%	87%	78%	69%	59%	48%	39%	30%	23%	17%	12%	9%	6%	4%	3%	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°
3766	3692	3513	3250	2926	2569	2204	1845	1503	1188	911	669	479	336	236	167	119	84	60	44
100%	98%	93%	86%	78%	68%	59%	49%	40%	32%	24%	18%	13%	9%	6%	4%	3%	2%	2%	1%

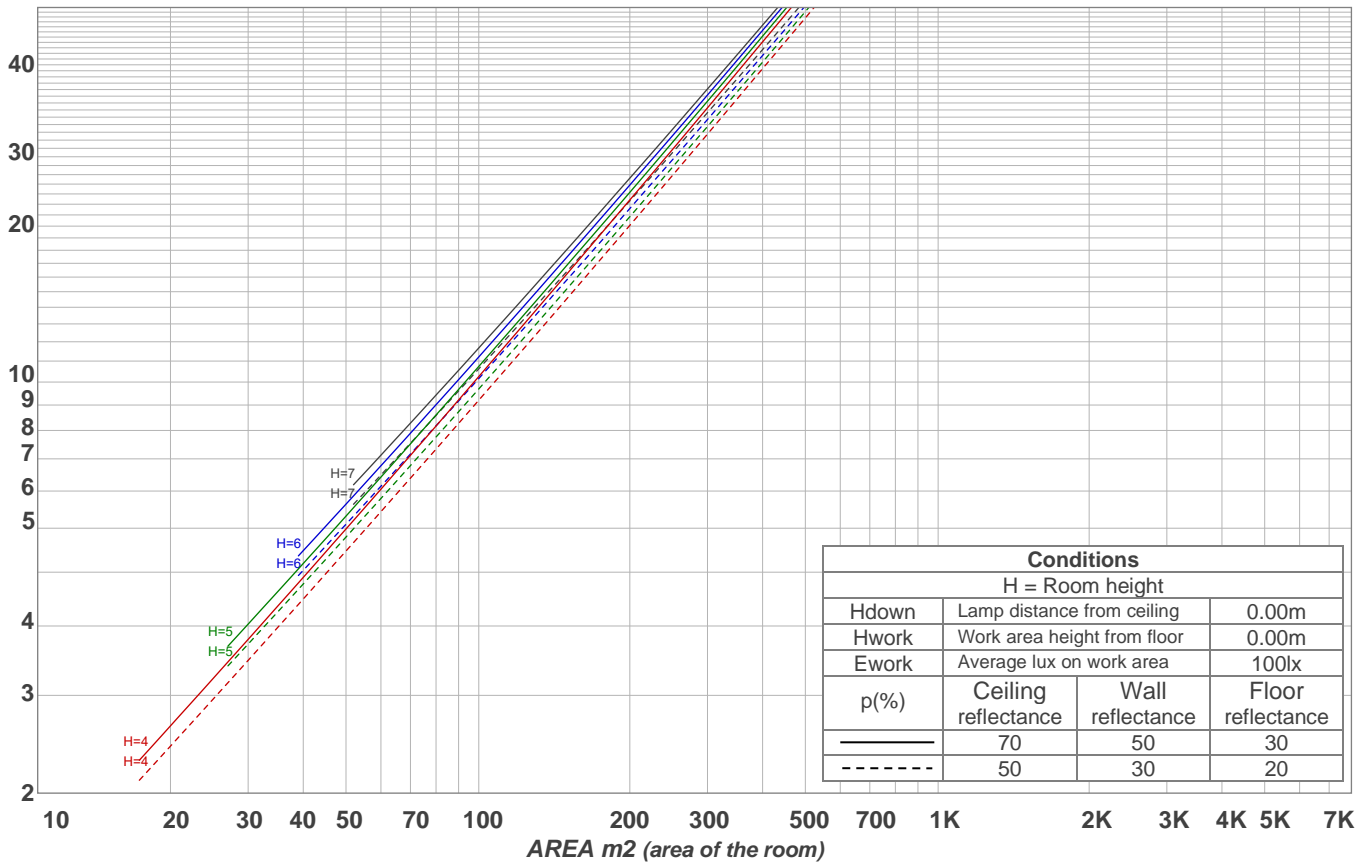
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3766	3704	3538	3287	2968	2601	2212	1821	1456	1139	863	632	447	308	211	148	105	73	51	36
100%	98%	94%	87%	79%	69%	59%	48%	39%	30%	23%	17%	12%	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
27.4°	50.3°	66.5°	98.3%	97.2%

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	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	88	88	
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84	84	
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	82	81	81	81	
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78	78	78	
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	
8	90	83	78	75	89	82	78	75	82	78	75	81	77	75	80	77	74	73	73	73	
9	87	80	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71	71	71	
10	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	70	69	69	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
300 lm	449 lm	188 lm	48.0 lm	12.9 lm	7.14 lm	6.96 lm	6.01 lm	4.02 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