

Light efficiency:



Output: 1291 lm

Light quality:

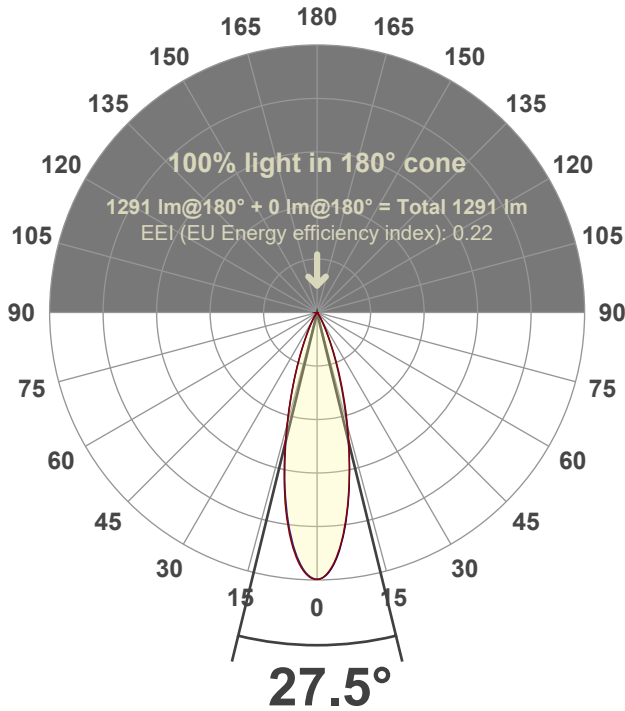


Peak: 4766 cd

Power: 20.8 W



Beam angle



Test number:

GR-F-F-CZ20-30k-NF-RD-91A-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-CZ20 30k 24° Optic-Solite

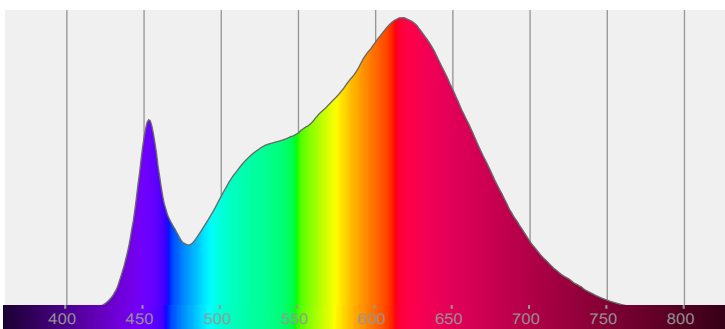
Date and time:

3/9/2022 2:28:06 PM

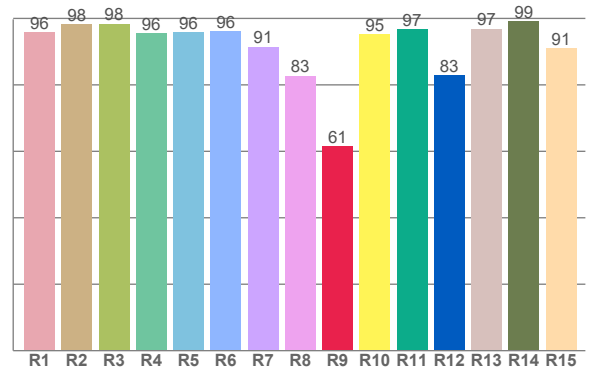
Delivered Lumens

1291

Spectra



CRI: 94.2 (R1-R8)



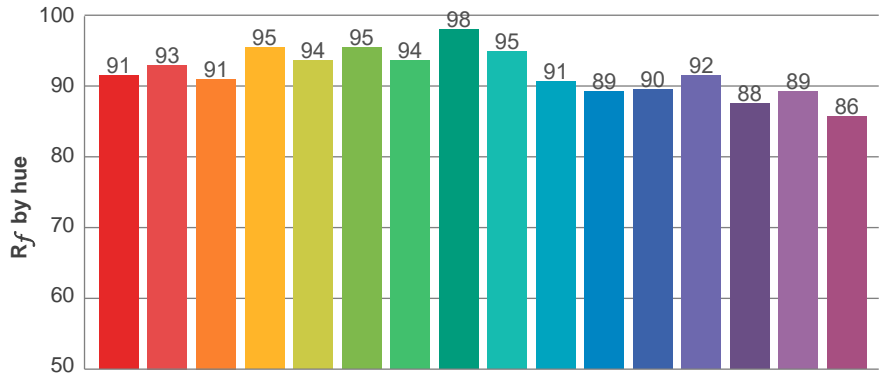
Color parameters

	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
	94.2	61.4	92.1	100.3	91.6	0.425	0.394	0.247	0.344	-0.0024

R_f 92.1
Fidelity index R_f

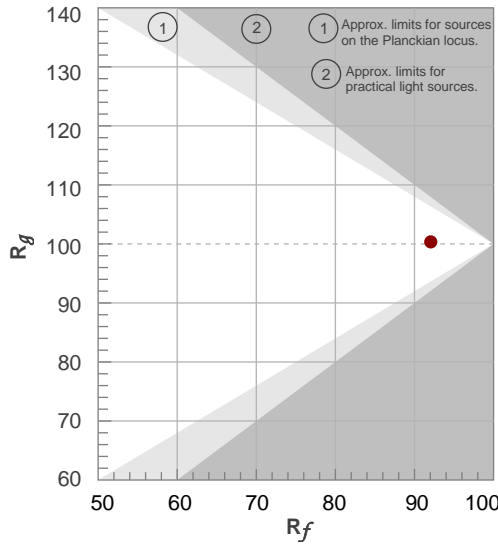
R_g 100.3
Gammut index R_g

TM30: 92.1

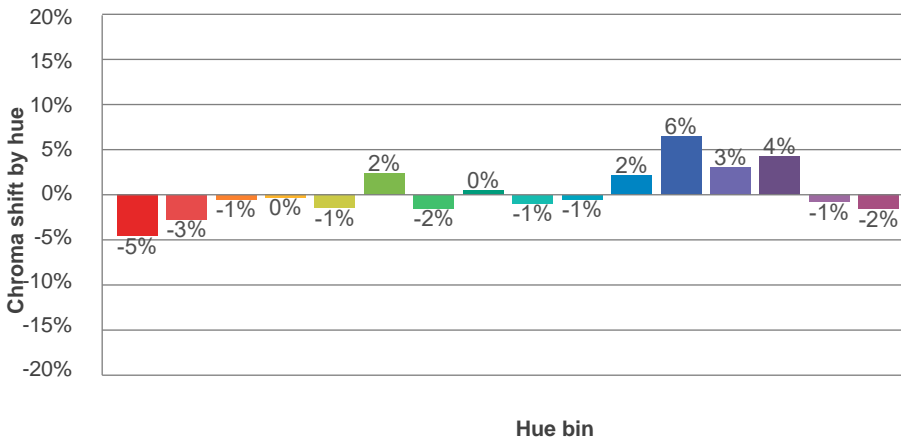
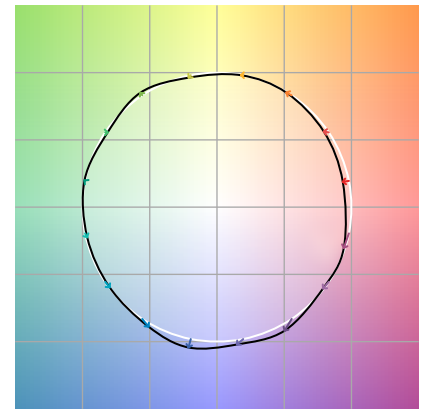


TM-30Color

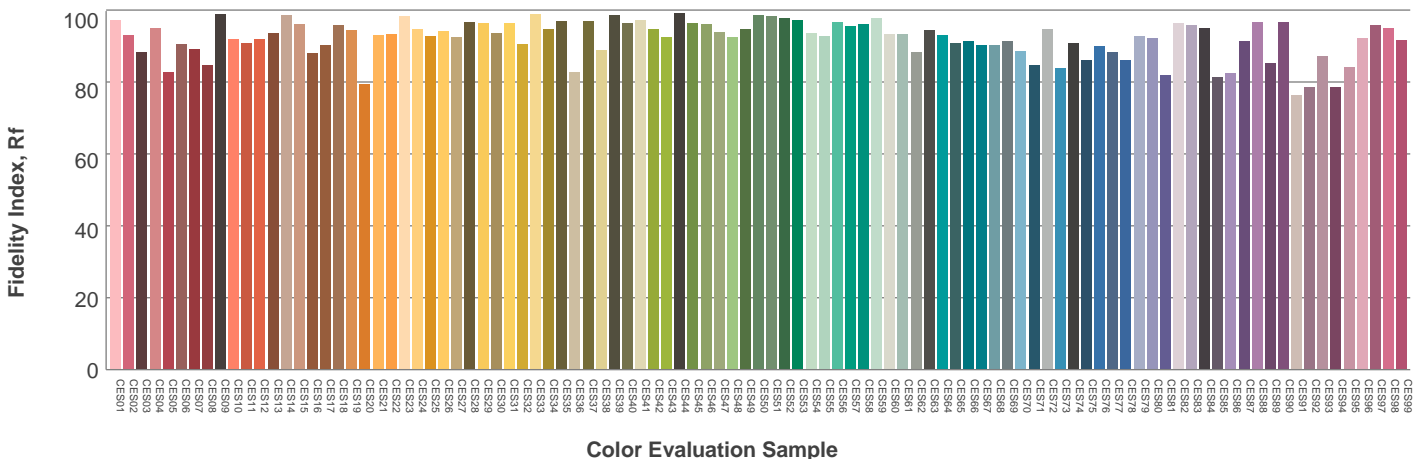
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	3%
3	91	-1%	4%
4	95	0%	2%
5	94	-1%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	7%
12	90	6%	0%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



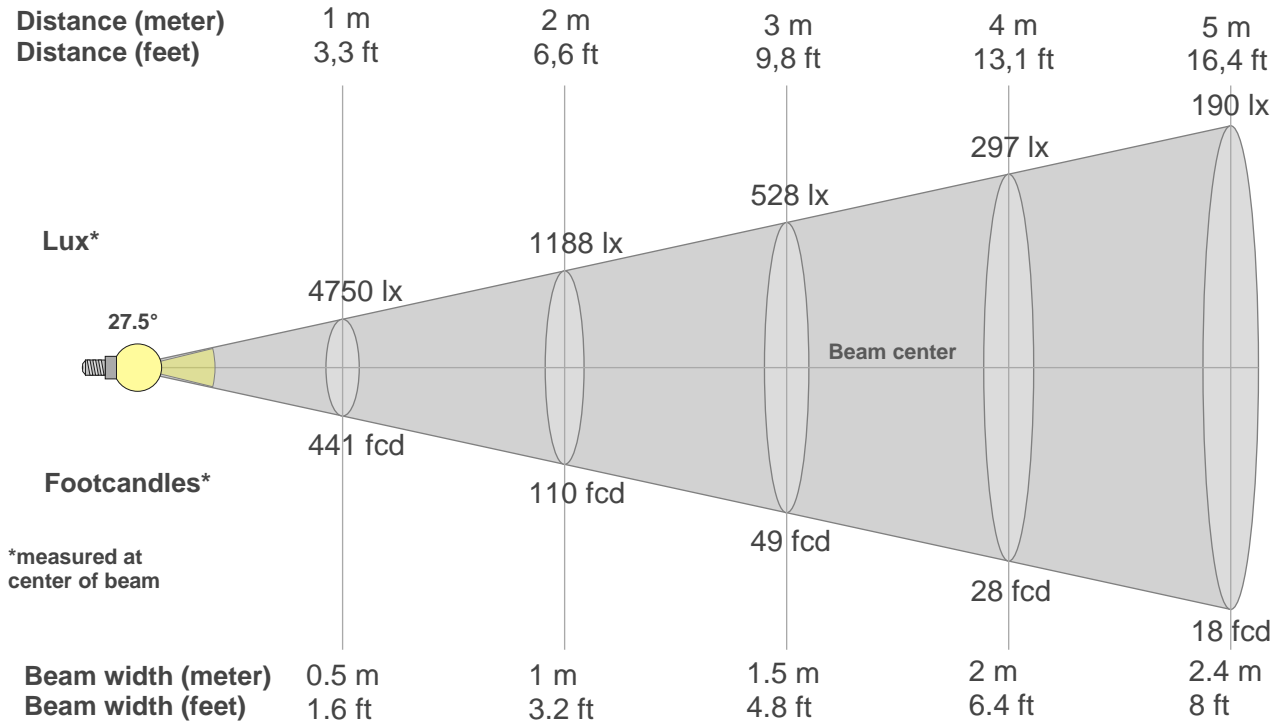
Color vector graphics



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
4750lx	1188lx	528lx	297lx	190lx	132lx	97lx	74lx	59lx	48lx	39lx	33lx	28lx	24lx	21lx	19lx	16lx	15lx	13lx	12lx
441.3fcd	110.3fcd	49fcd	27.6fcd	17.7fcd	12.3fcd	9fcd	6.9fcd	5.4fcd	4.4fcd	3.6fcd	3.1fcd	2.6fcd	2.3fcd	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°
4750	4663	4456	4132	3712	3259	2794	2335	1896	1502	1154	857	611	430	304	215	153	109	81	60
100%	98%	94%	87%	78%	69%	59%	49%	40%	32%	24%	18%	13%	9%	6%	5%	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°
4750	4689	4467	4142	3737	3278	2781	2294	1841	1432	1077	792	568	396	271	184	131	93	66	47
100%	99%	94%	87%	79%	69%	59%	48%	39%	30%	23%	17%	12%	8%	6%	4%	3%	2%	1%	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°
4750	4692	4513	4191	3790	3330	2833	2330	1864	1454	1100	803	570	407	289	206	148	108	80	59
100%	99%	95%	88%	80%	70%	60%	49%	39%	31%	23%	17%	12%	9%	6%	4%	3%	2%	2%	1%

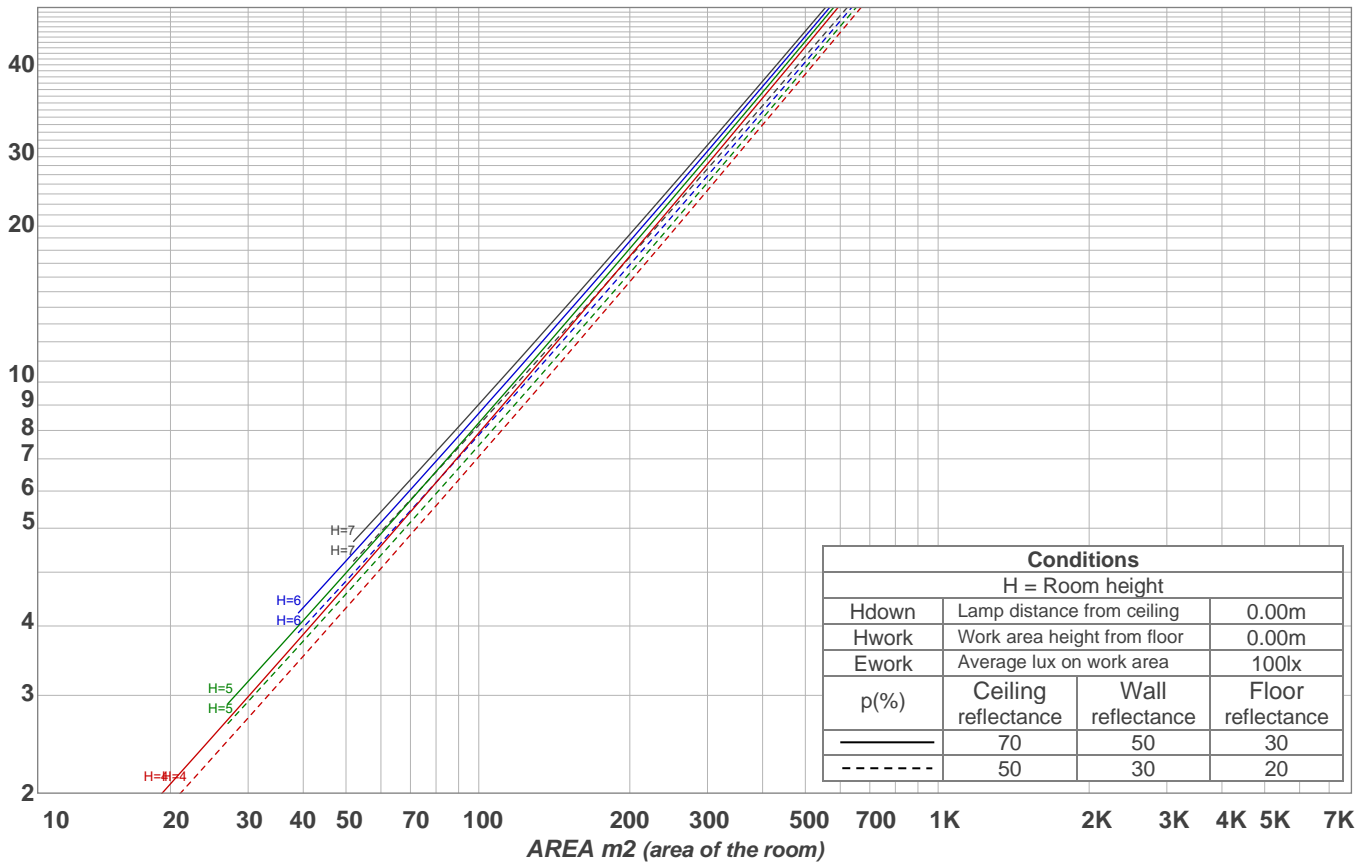
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4750	4669	4459	4144	3746	3280	2784	2296	1838	1424	1078	793	566	393	269	191	136	96	68	47
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
27.5°	50.2°	66.1°	98.2%	96.9%

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	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	88	88	88	
4	103	97	92	89	101	96	92	88	94	90	87	92	89	86	90	88	86	84	84	84	
5	99	93	88	85	98	92	88	84	90	87	84	89	86	83	87	85	82	81	81	81	
6	96	89	85	81	95	88	84	81	87	83	80	86	82	80	85	82	79	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	81	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°
380 lm	567 lm	236 lm	58.5 lm	17.0 lm	10.1 lm	9.85 lm	8.33 lm	4.97 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