

Light efficiency:



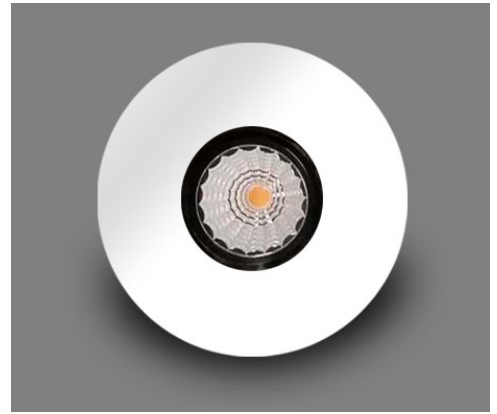
Output: 1029 lm

Light quality:

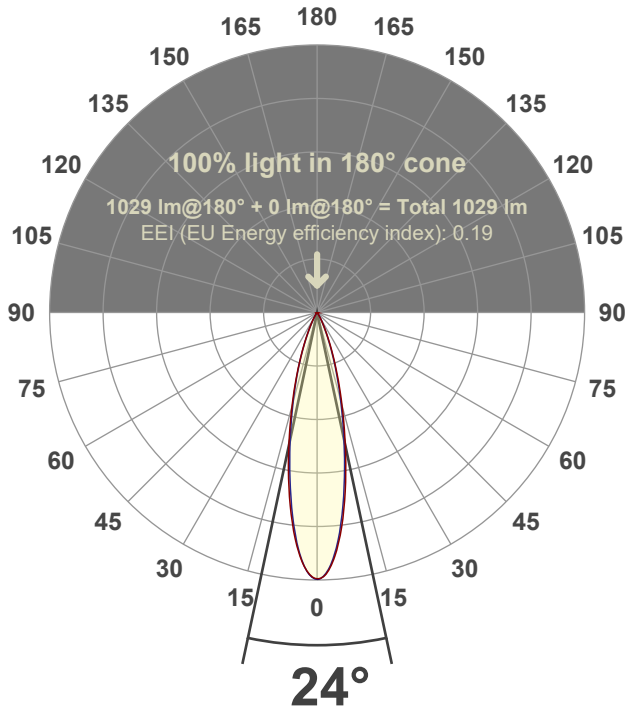


Peak: 4500 cd

Power: 14.2 W



Beam angle



Test number:

GR-F-F-CZ14-30k-SP-RD-91A-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-CZ14 30k 15° Optic-Solite

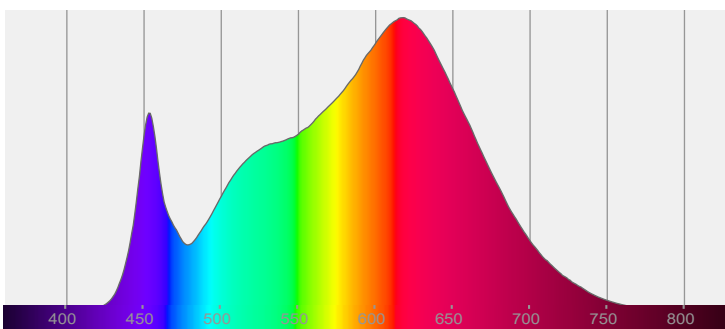
Date and time:

3/9/2022 2:15:40 PM

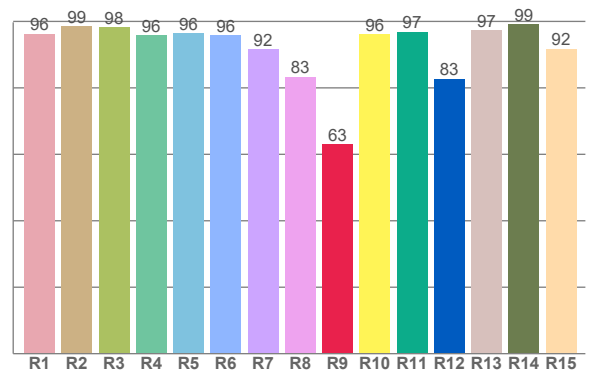
Delivered Lumens

1029

Spectra



CRI: 94.5 (R1-R8)



Color parameters

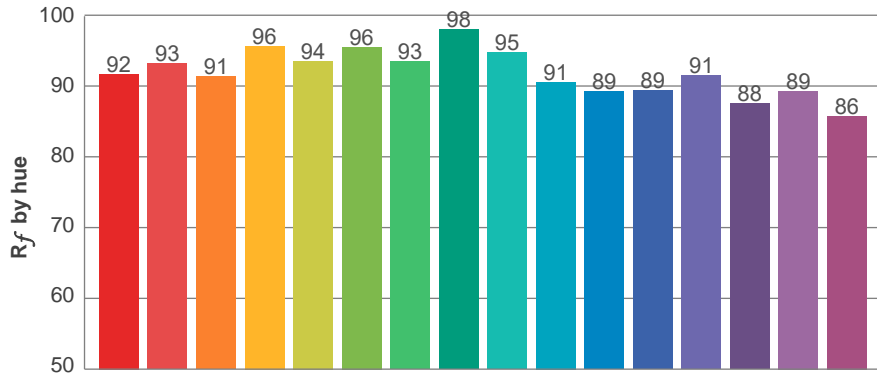
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.1	92.1	100.4	91.8	0.425	0.393	0.247	0.343	-0.0027

R_f 92.1
Fidelity index R_f

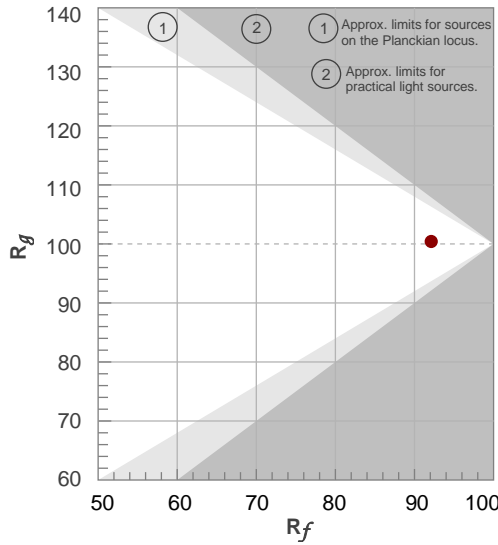
R_g 100.4
Gammut index R_g

TM30: 92.1

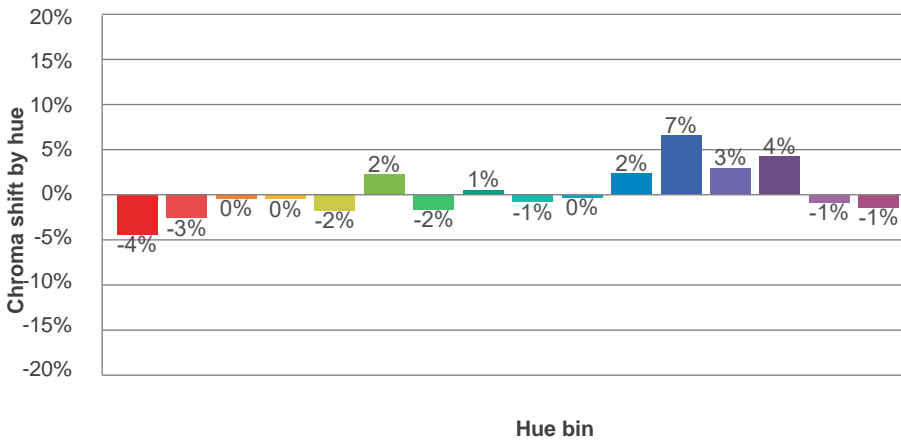
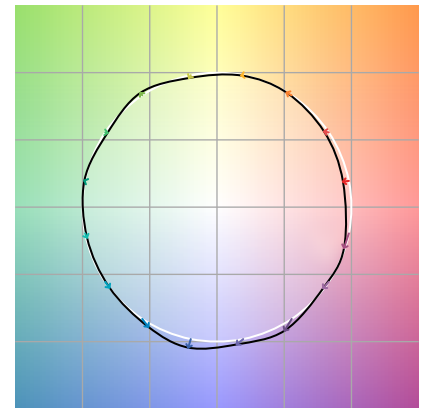
TM-30Color



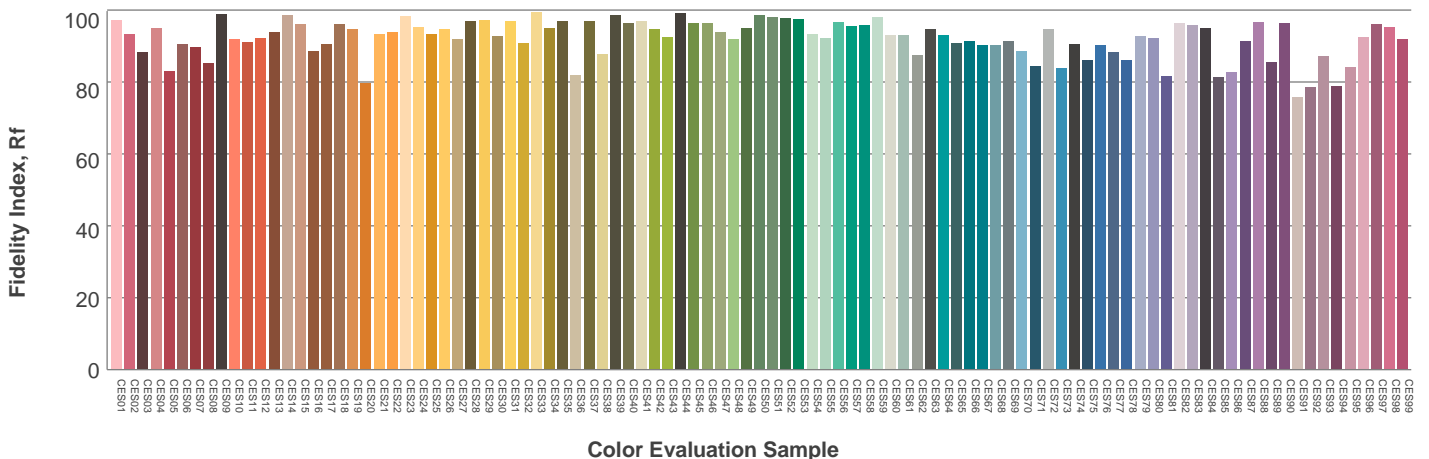
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	96	2%	0%
7	93	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



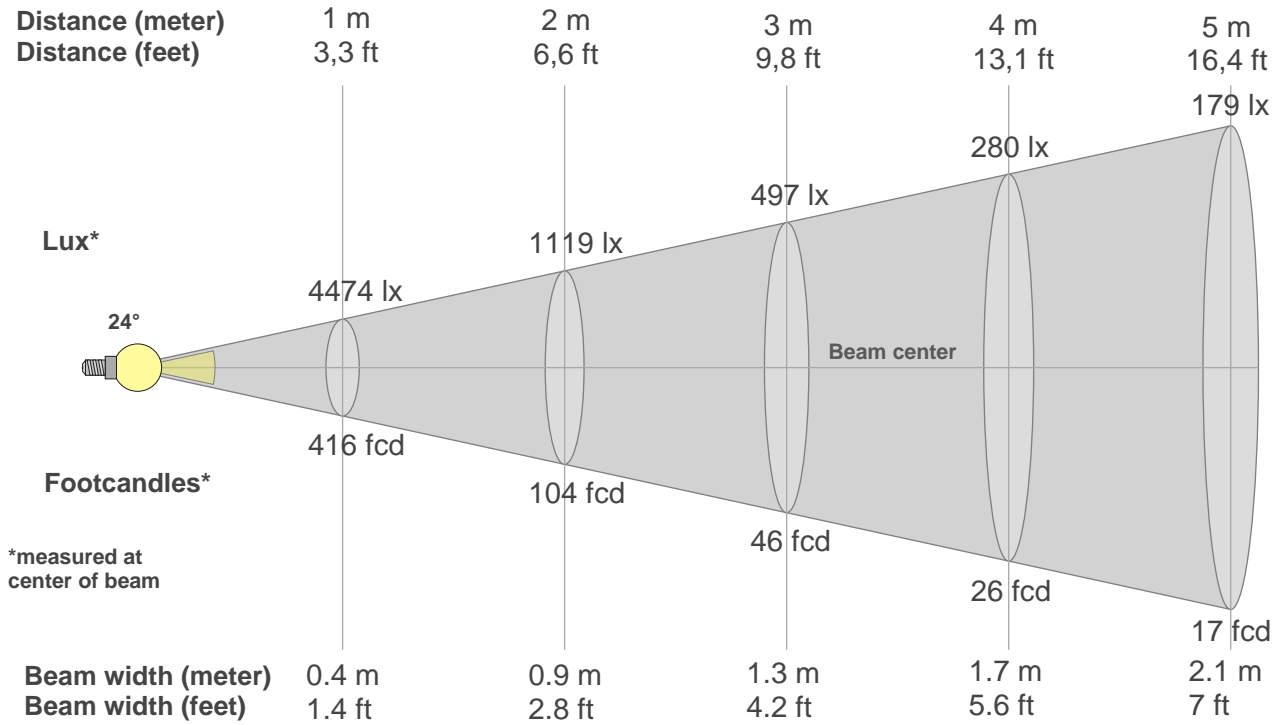
Color vector graphics



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
4474lx	1119lx	497lx	280lx	179lx	124lx	91lx	70lx	55lx	45lx	37lx	31lx	26lx	23lx	20lx	17lx	15lx	14lx	12lx	11lx
415.7fcd	103.9fcd	46.2fcd	26fcd	16.6fcd	11.5fcd	8.5fcd	6.5fcd	5.1fcd	4.2fcd	3.4fcd	2.9fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.2fcd	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°
4474	4402	4148	3754	3289	2793	2304	1848	1452	1117	839	613	435	299	207	144	101	72	51	38
100%	98%	93%	84%	74%	62%	51%	41%	32%	25%	19%	14%	10%	7%	5%	3%	2%	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°
4474	4369	4090	3684	3195	2675	2190	1753	1373	1049	778	559	396	276	192	135	96	71	53	40
100%	98%	91%	82%	71%	60%	49%	39%	31%	23%	17%	12%	9%	6%	4%	3%	2%	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°
4474	4362	4108	3733	3277	2788	2306	1861	1466	1125	838	620	447	314	217	150	106	78	56	41
100%	97%	92%	83%	73%	62%	52%	42%	33%	25%	19%	14%	10%	7%	5%	3%	2%	2%	1%	1%

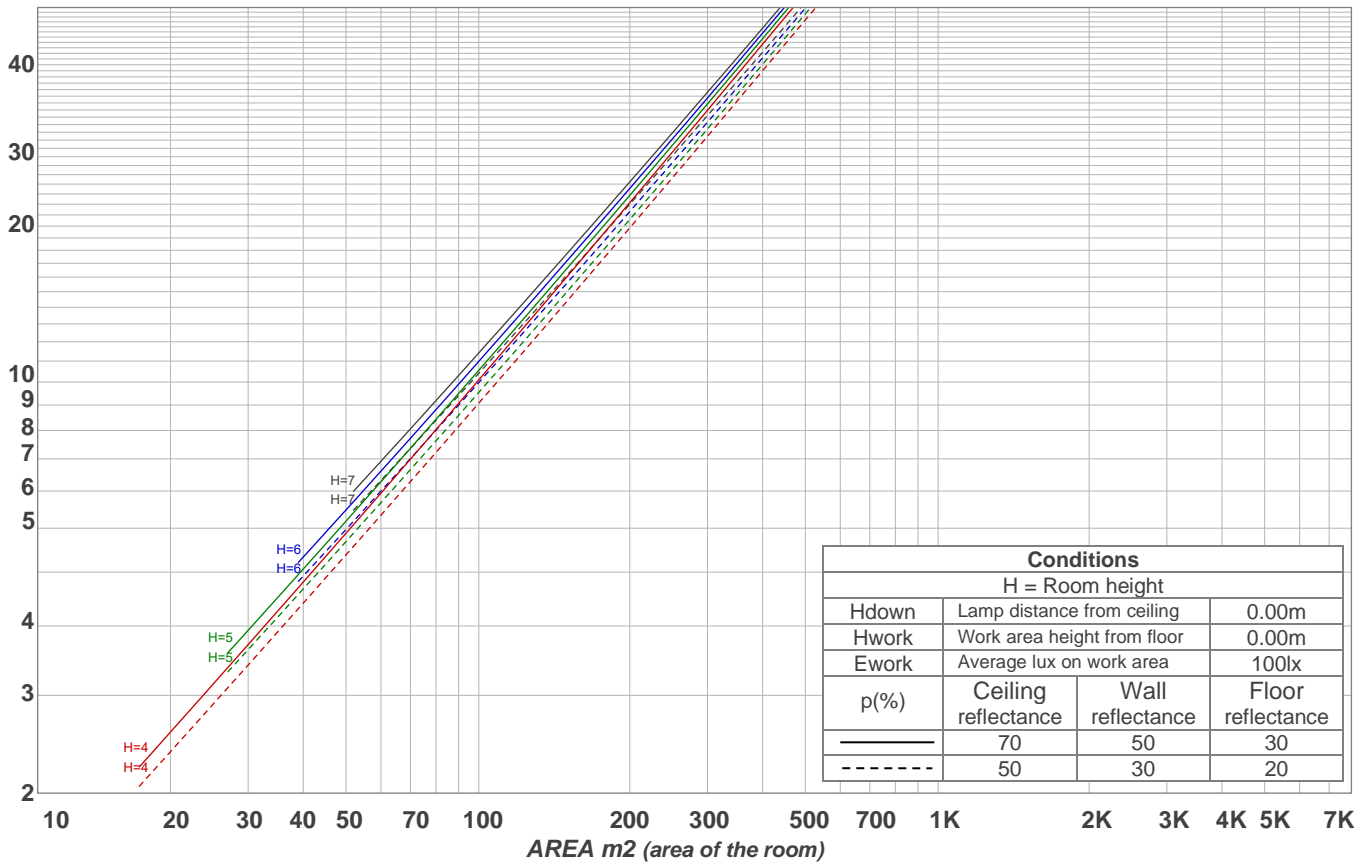
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4474	4396	4089	3663	3172	2670	2196	1765	1402	1090	821	594	412	280	191	131	92	67	49	36
100%	98%	91%	82%	71%	60%	49%	39%	31%	24%	18%	13%	9%	6%	4%	3%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24°	47.3°	62.5°	98.2%	97.0%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
335 lm	442 lm	172 lm	41.4 lm	12.7 lm	7.82 lm	7.61 lm	6.21 lm	4.20 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