

Light efficiency:



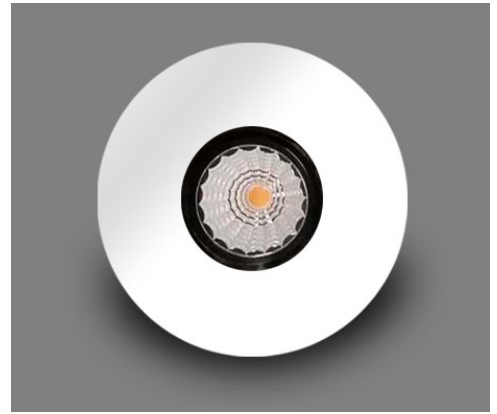
Output: 1024 lm

Light quality:

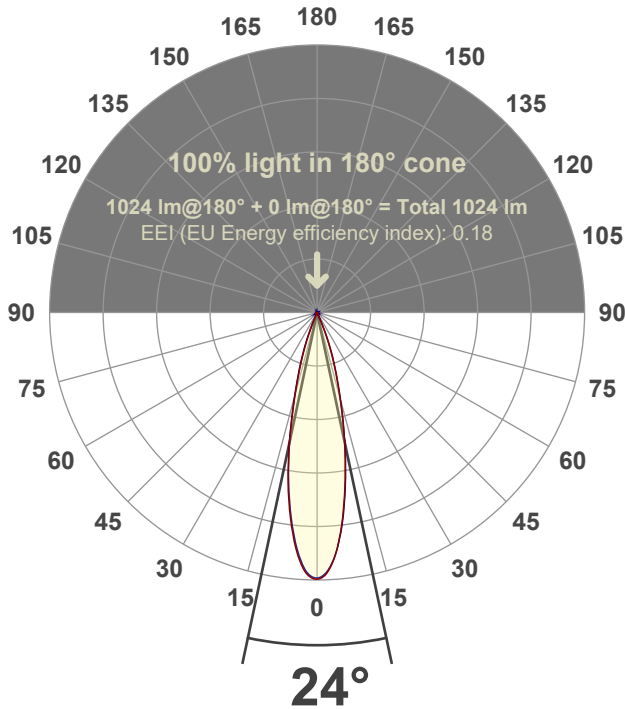


Peak: 5490 cd

Power: 14.2 W



Beam angle



Test number:

GR-F-F-CZ14-30k-NF-RD-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-CZ14 30k 24° Optic

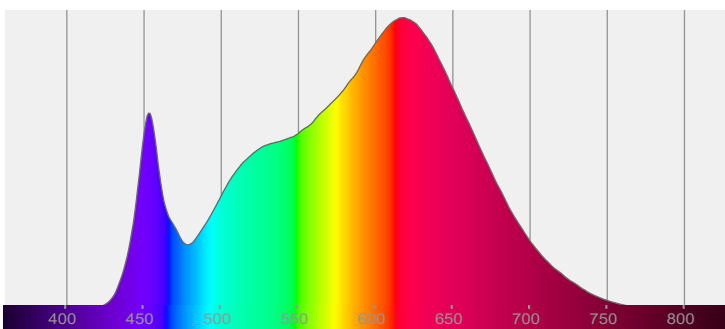
Date and time:

3/9/2022 2:21:50 PM

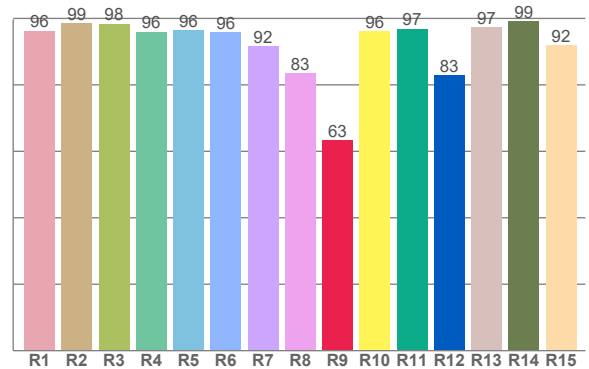
Delivered Lumens

1024

Spectra



CRI: 94.6 (R1-R8)



Color parameters

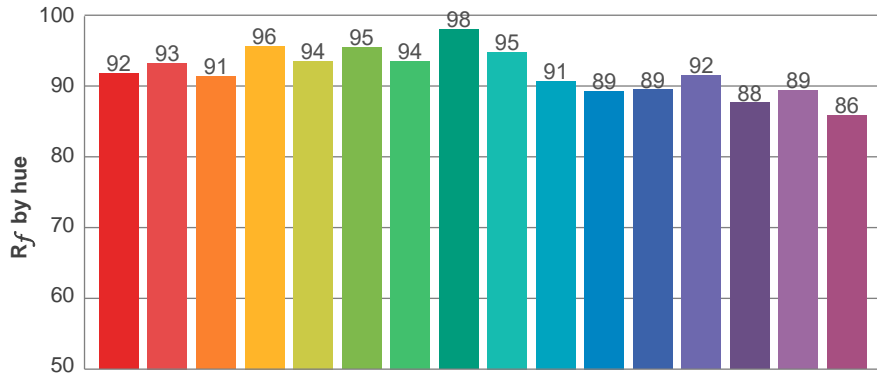
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.6	63.4	92.2	100.5	91.8	0.424	0.393	0.247	0.343	-0.0026

R_f 92.2
Fidelity index R_f

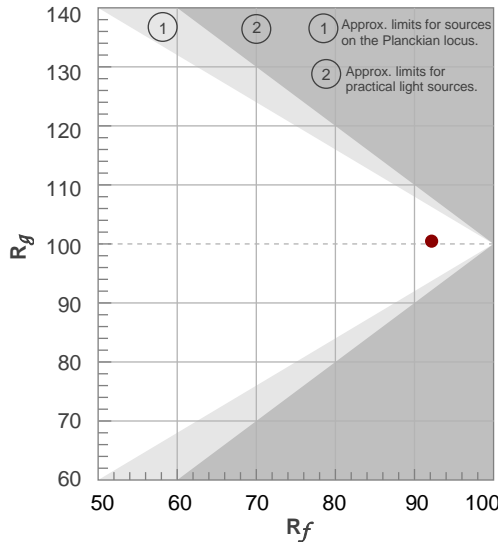
R_g 100.5
Gammut index R_g

TM30: 92.2

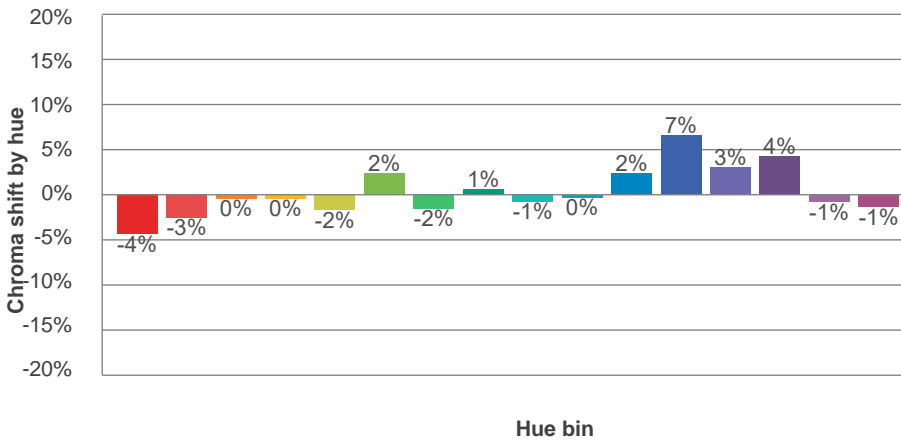
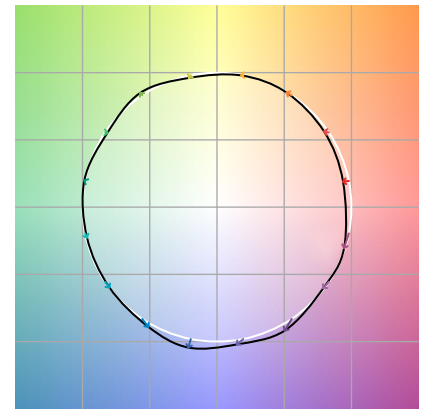
TM-30Color



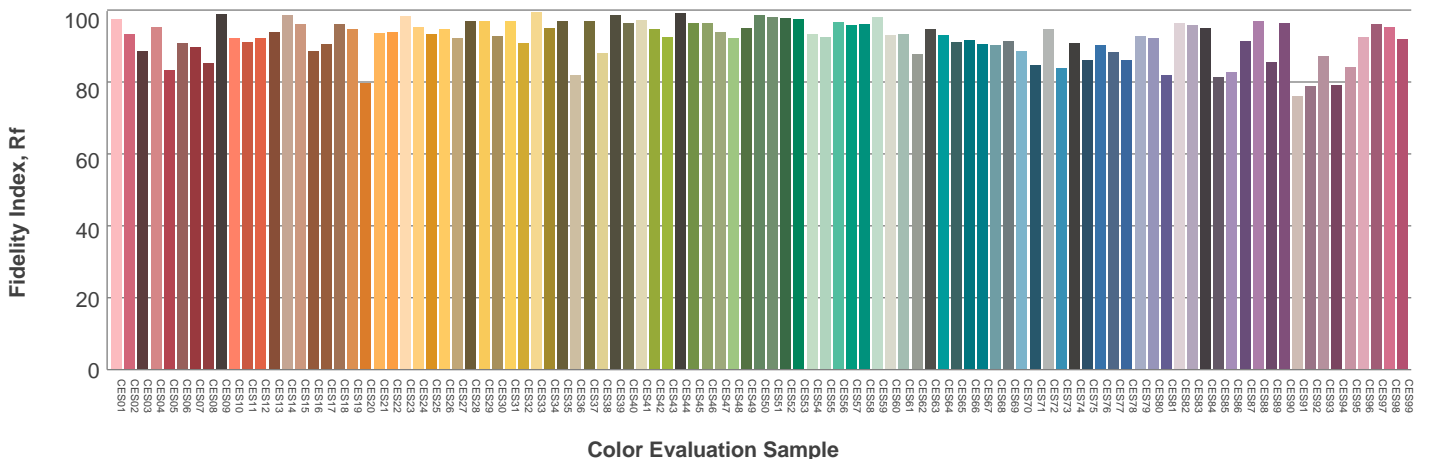
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



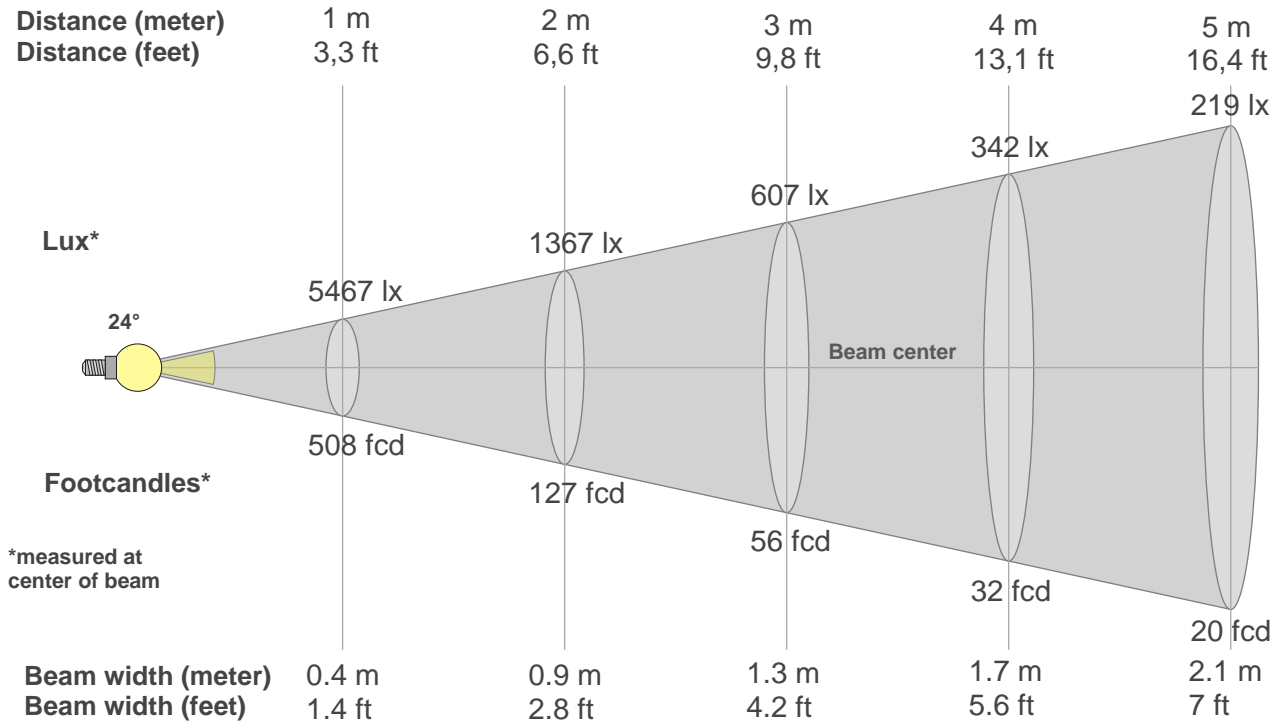
Color vector graphics



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
5467lx	1367lx	607lx	342lx	219lx	152lx	112lx	85lx	67lx	55lx	45lx	38lx	32lx	28lx	24lx	21lx	19lx	17lx	15lx	14lx
507.9fcd	127fcd	56.4fcd	31.7fcd	20.3fcd	14.1fcd	10.4fcd	7.9fcd	6.3fcd	5.1fcd	4.2fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd

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°
5467	5384	5060	4566	3975	3352	2742	2164	1629	1213	862	530	246	66	12	9	9	8	8	7
100%	98%	93%	84%	73%	61%	50%	40%	30%	22%	16%	10%	5%	1%	0%	0%	0%	0%	0%	0%

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°
5467	5348	5041	4580	4007	3383	2753	2127	1600	1173	804	474	206	44	16	14	11	9	8	6
100%	98%	92%	84%	73%	62%	50%	39%	29%	21%	15%	9%	4%	1%	0%	0%	0%	0%	0%	0%

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°
5467	5383	5097	4645	4081	3450	2741	2070	1521	1076	699	373	122	25	13	10	9	8	7	5
100%	98%	93%	85%	75%	63%	50%	38%	28%	20%	13%	7%	2%	0%	0%	0%	0%	0%	0%	0%

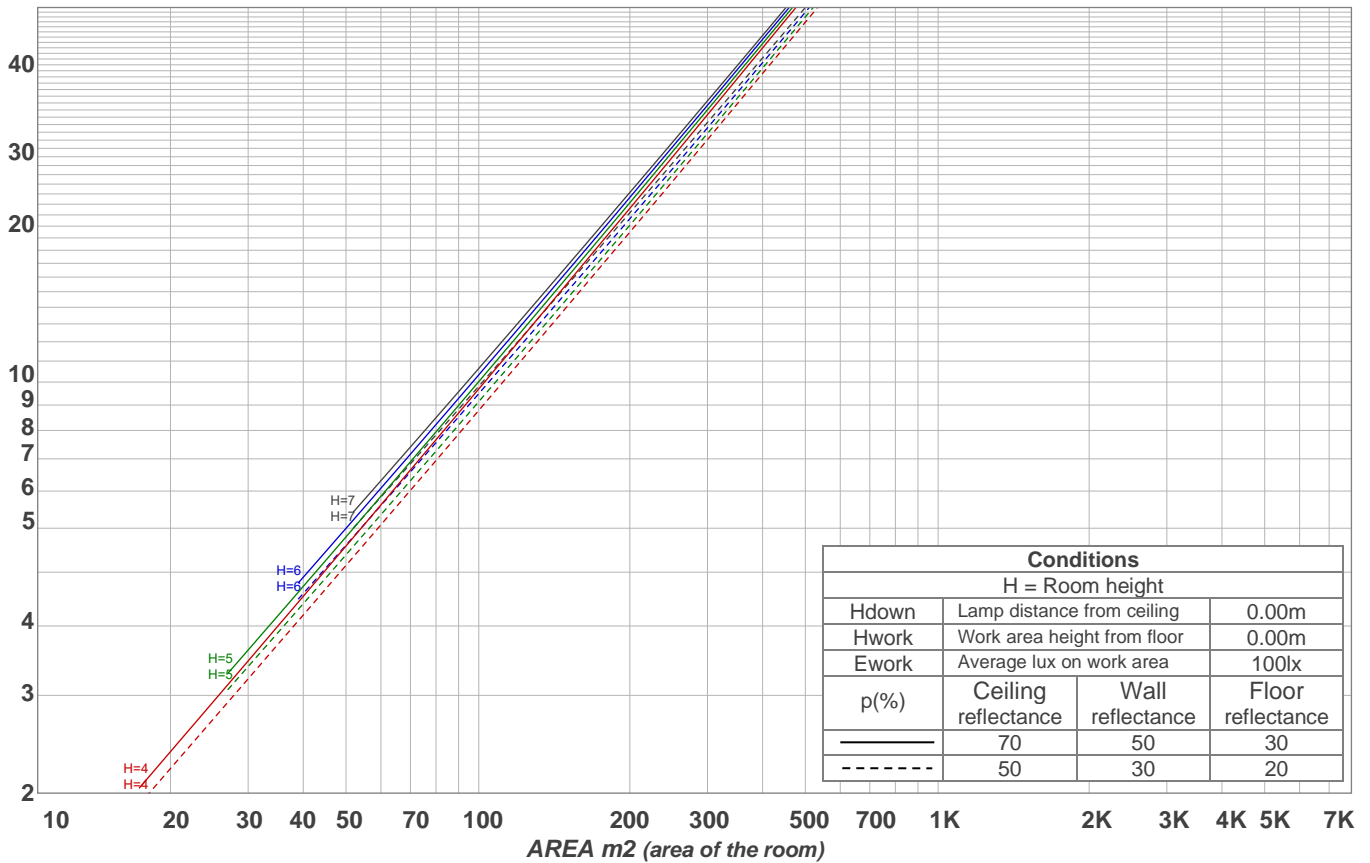
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5467	5356	5045	4581	4018	3399	2754	2105	1563	1130	757	427	165	23	12	10	8	7	6	5
100%	98%	92%	84%	74%	62%	50%	39%	29%	21%	14%	8%	3%	0%	0%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24°	42.7°	48.9°	99.1%	98.8%

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	113	111	110	113	111	109	108	107	106	104	103	102	101	100	99	99	97	97		
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94	94		
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92	92		
4	106	101	97	94	104	100	96	94	98	95	92	96	93	91	94	92	90	89	89		
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	87		
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	85		
7	98	92	88	85	97	91	88	85	90	87	85	89	87	84	88	86	84	83	83		
8	96	90	86	83	95	89	86	83	88	85	83	87	85	83	87	84	82	81	81		
9	93	87	84	81	93	87	84	81	86	83	81	86	83	81	85	82	80	80	80		
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78	78		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
415 lm	507 lm	83.9 lm	4.70 lm	2.14 lm	2.01 lm	2.30 lm	3.05 lm	3.66 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