

Light efficiency:



Output: 1239 lm

Light quality:

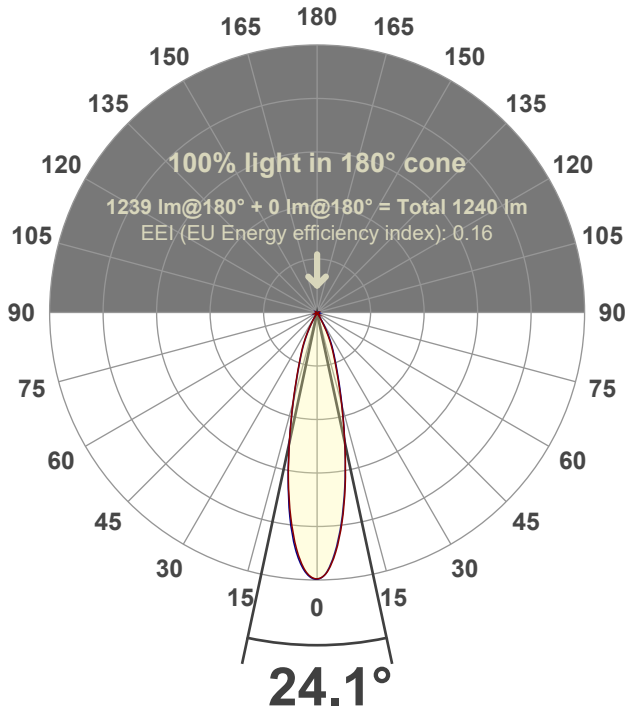


Peak: 5444 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

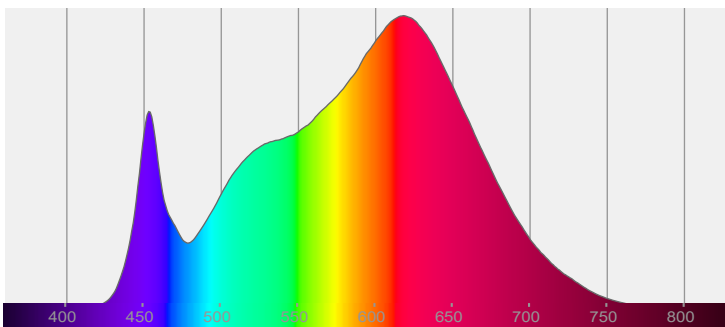
Date and time:

3/9/2022 5:01:44 PM

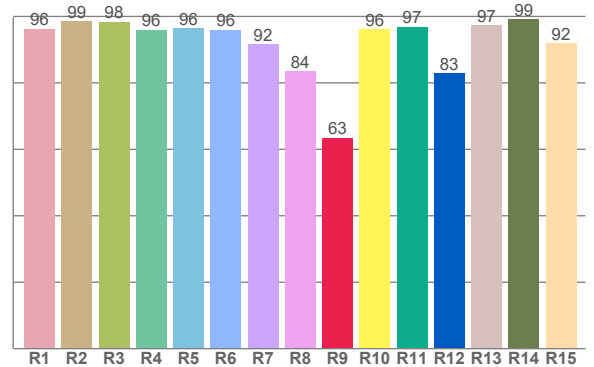
Delivered Lumens

1239

Spectra



CRI: 94.6 (R1-R8)



Color parameters

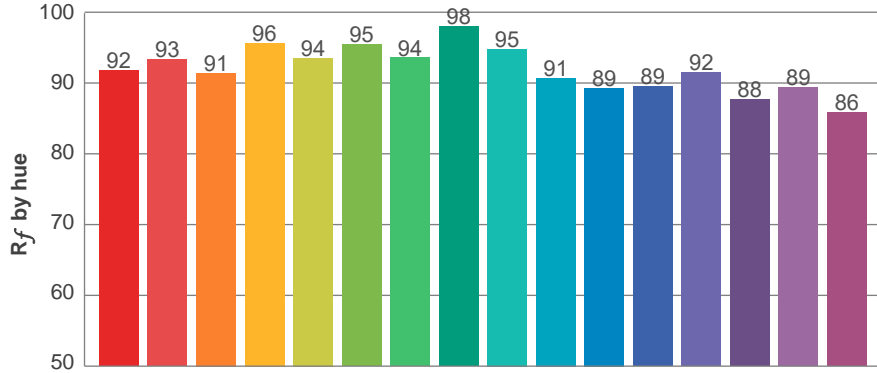
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.6	63.5	92.2	100.5	91.8	0.425	0.393	0.247	0.343	-0.0026

R_f 92.2
Fidelity index R_f

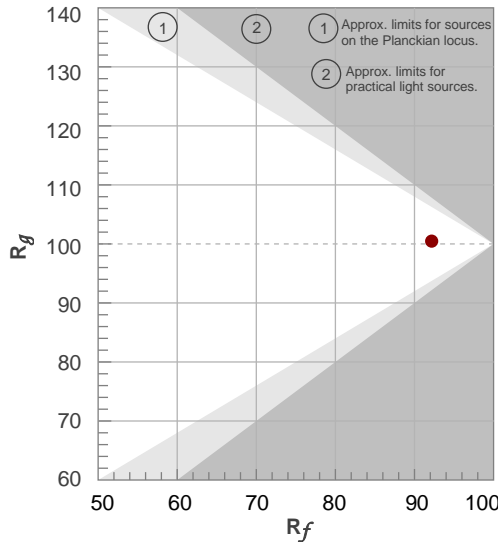
R_g 100.5
Gammut index R_g

TM30: 92.2

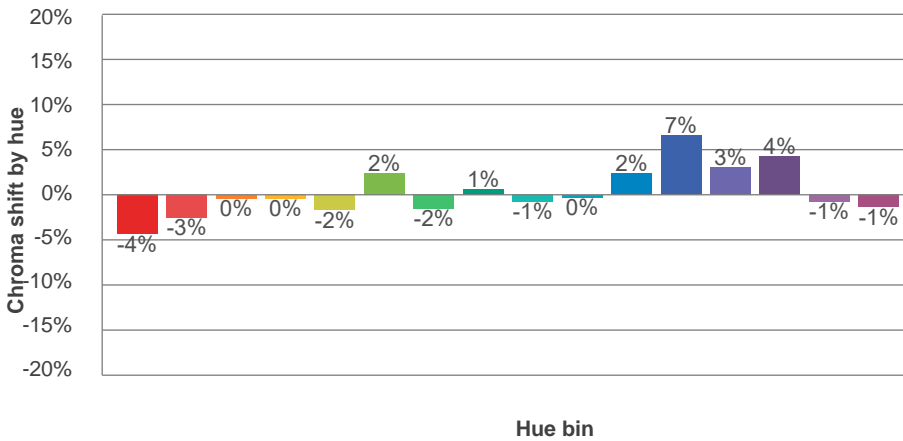
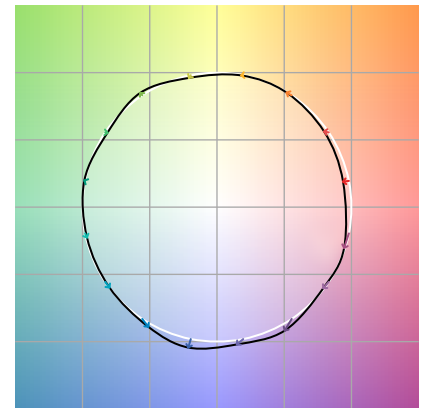
TM-30Color



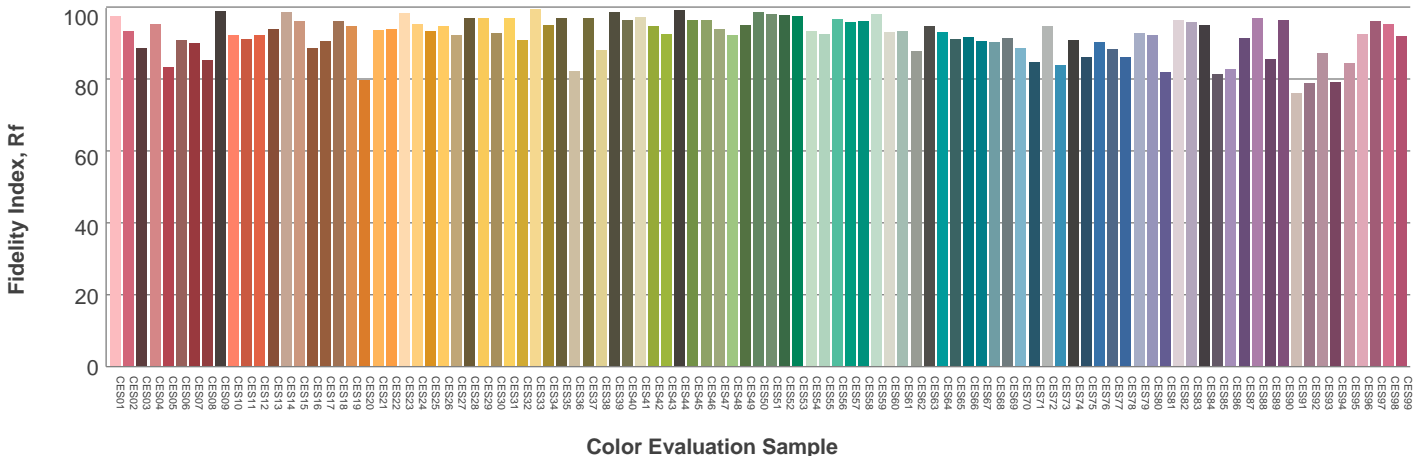
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



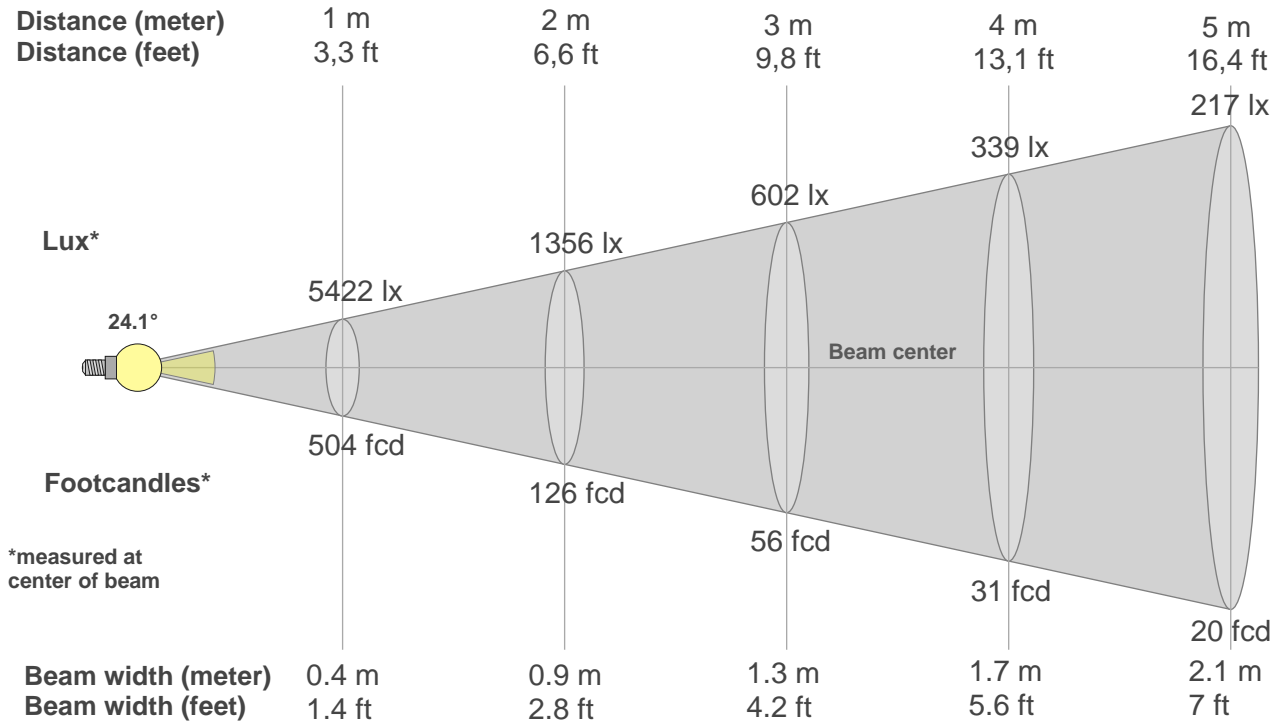
Color vector graphics



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
5422lx	1356lx	602lx	339lx	217lx	151lx	111lx	85lx	67lx	54lx	45lx	38lx	32lx	28lx	24lx	21lx	19lx	17lx	15lx	14lx
503.7fc	125.9fc	56fcd	31.5fcd	20.1fcd	14fcd	10.3fcd	7.9fcd	6.2fcd	5fcd	4.2fcd	3.5fcd	3fcd	2.6fcd	2.2fcd	2fcd	1.7fcd	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°
5422	5323	4986	4514	3955	3348	2739	2180	1725	1363	1086	870	683	496	308	153	53	15	10	7
100%	98%	92%	83%	73%	62%	51%	40%	32%	25%	20%	16%	13%	9%	6%	3%	1%	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°
5422	5311	4958	4469	3907	3316	2739	2215	1766	1412	1140	928	749	576	391	219	88	26	8	6
100%	98%	91%	82%	72%	61%	51%	41%	33%	26%	21%	17%	14%	11%	7%	4%	2%	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°
5422	5319	5024	4573	4012	3391	2742	2176	1701	1330	1052	840	662	475	294	142	48	12	9	9
100%	98%	93%	84%	74%	63%	51%	40%	31%	25%	19%	15%	12%	9%	5%	3%	1%	0%	0%	0%

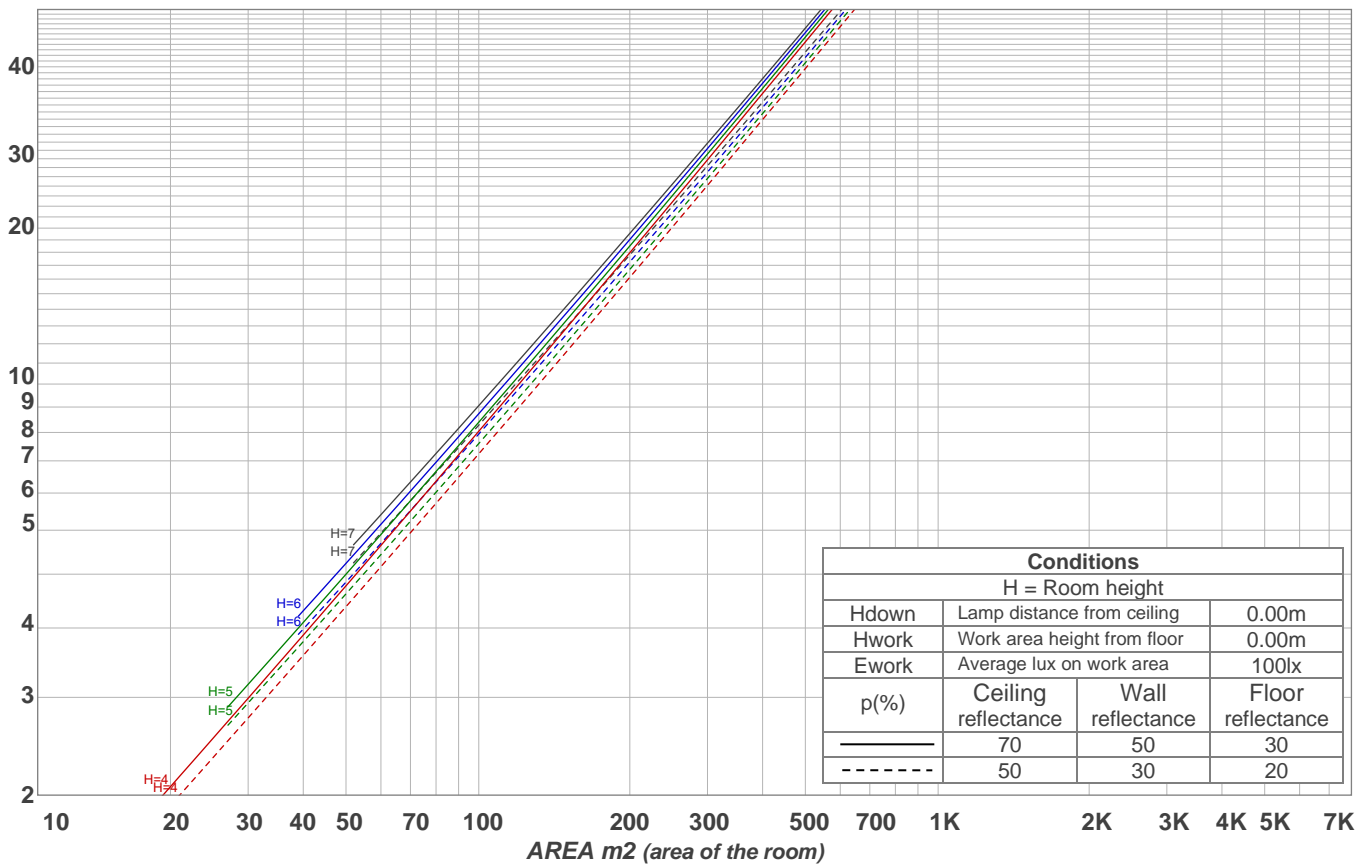
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5422	5335	5072	4647	4082	3417	2744	2153	1666	1288	1008	798	598	403	230	100	28	13	11	8
100%	98%	94%	86%	75%	63%	51%	40%	31%	24%	19%	15%	11%	7%	4%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.1°	50.8°	60.4°	99.3%	99.0%

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	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	98	96	96	
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	94	93	91	
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90	89	87	
4	104	99	95	92	102	98	94	91	96	92	90	94	91	89	92	90	88	87	85	84	
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84	82	81	
6	98	92	87	84	97	91	87	84	90	86	84	88	85	83	87	85	83	81	80	79	
7	95	89	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	78	77	76	
8	92	86	82	79	91	85	81	79	84	81	78	83	80	78	83	80	78	76	75	74	
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	81	78	76	74	73	72	
10	88	81	77	74	87	80	77	74	80	76	74	79	76	74	79	76	74	72	71	70	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
412 lm	540 lm	257 lm	16.7 lm	3.20 lm	2.57 lm	2.40 lm	2.60 lm	3.21 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