

Light efficiency:



Output: 1285 lm

Light quality:

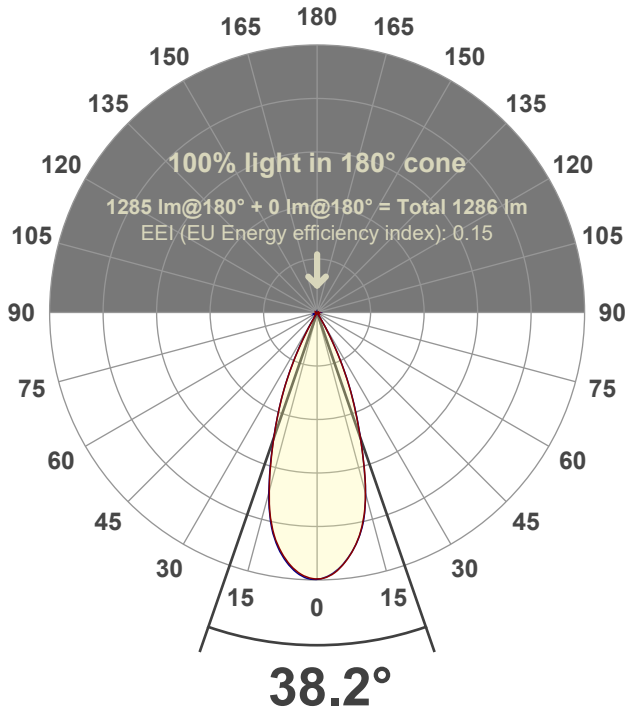


Peak: 3241 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Regress Round Fixed Downlight-CZ14 30k 38° Optic

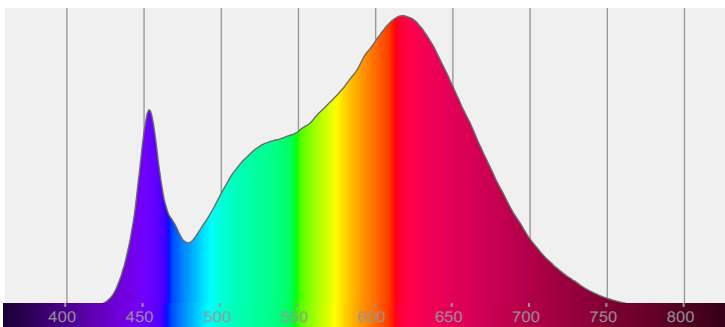
Date and time:

3/9/2022 4:10:12 PM

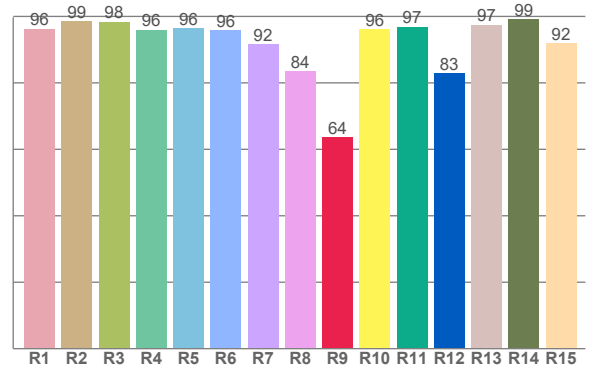
Delivered Lumens

1285

Spectra



CRI: 94.6 (R1-R8)



Color parameters

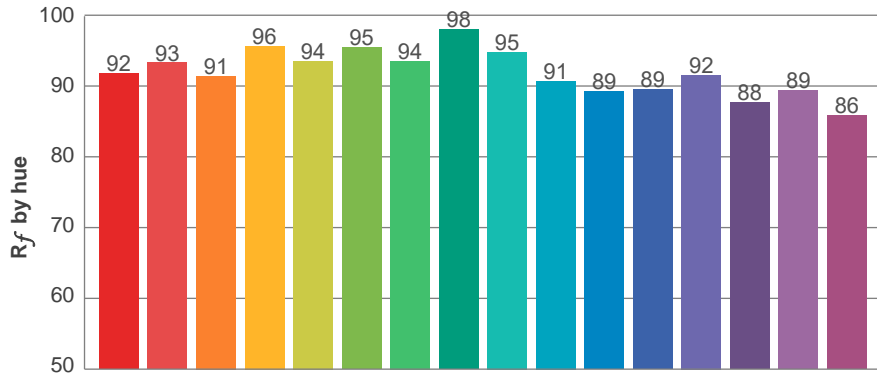
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.6	63.5	92.2	100.5	91.8	0.424	0.393	0.247	0.343	-0.0027

R_f 92.2
Fidelity index R_f

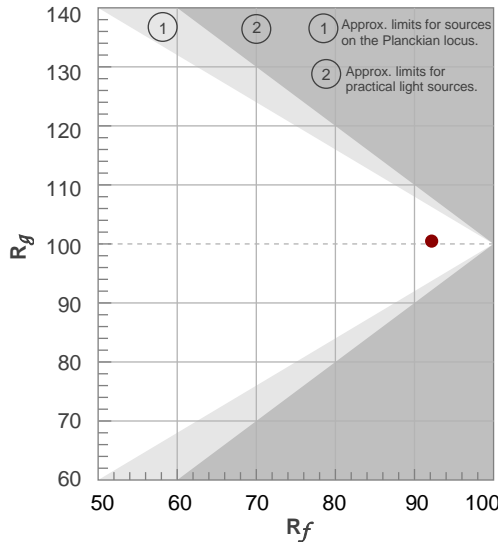
R_g 100.5
Gammut index R_g

TM30: 92.2

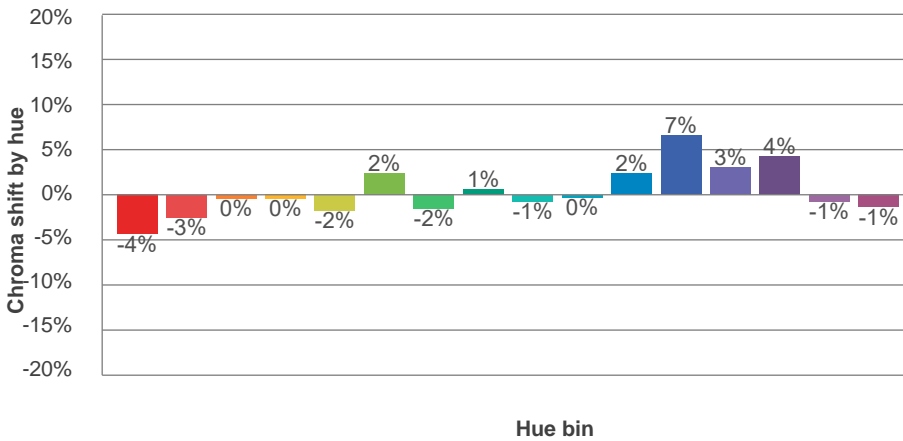
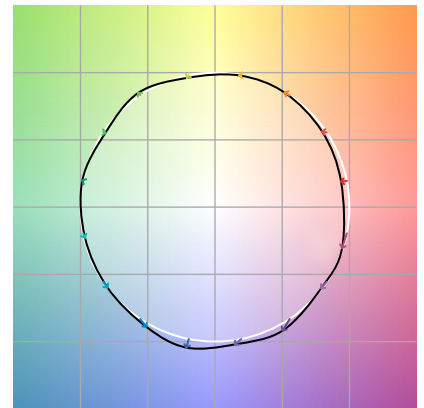
TM-30Color



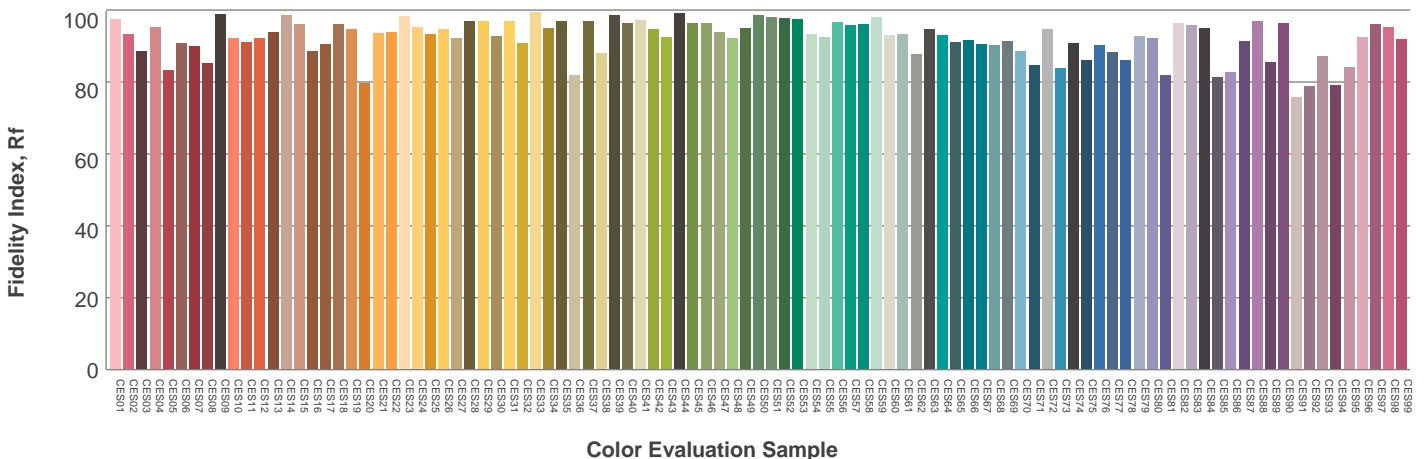
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



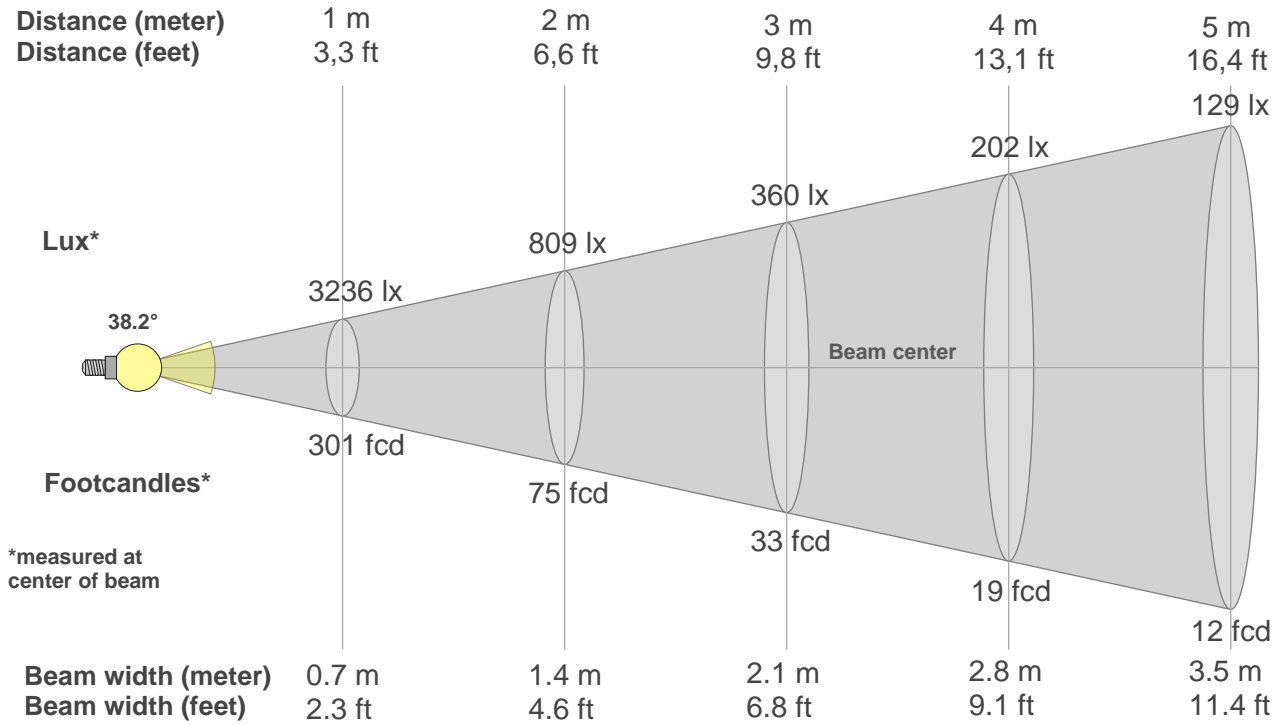
Color vector graphics



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
3236lx	809lx	360lx	202lx	129lx	90lx	66lx	51lx	40lx	32lx	27lx	22lx	19lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx
300.7fcd	75.2fcd	33.4fcd	18.8fcd	12fcd	8.4fcd	6.1fcd	4.7fcd	3.7fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.8fcd

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°
3236	3216	3165	3074	2957	2814	2636	2413	2124	1794	1481	1193	926	656	410	210	76	14	8	7
100%	99%	98%	95%	91%	87%	81%	75%	66%	55%	46%	37%	29%	20%	13%	6%	2%	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°
3236	3210	3152	3066	2956	2821	2646	2412	2121	1792	1483	1206	934	665	406	190	64	18	8	6
100%	99%	97%	95%	91%	87%	82%	75%	66%	55%	46%	37%	29%	21%	13%	6%	2%	1%	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°
3236	3216	3169	3091	2975	2829	2640	2397	2098	1782	1485	1206	932	651	386	183	63	14	7	5
100%	99%	98%	96%	92%	87%	82%	74%	65%	55%	46%	37%	29%	20%	12%	6%	2%	0%	0%	0%

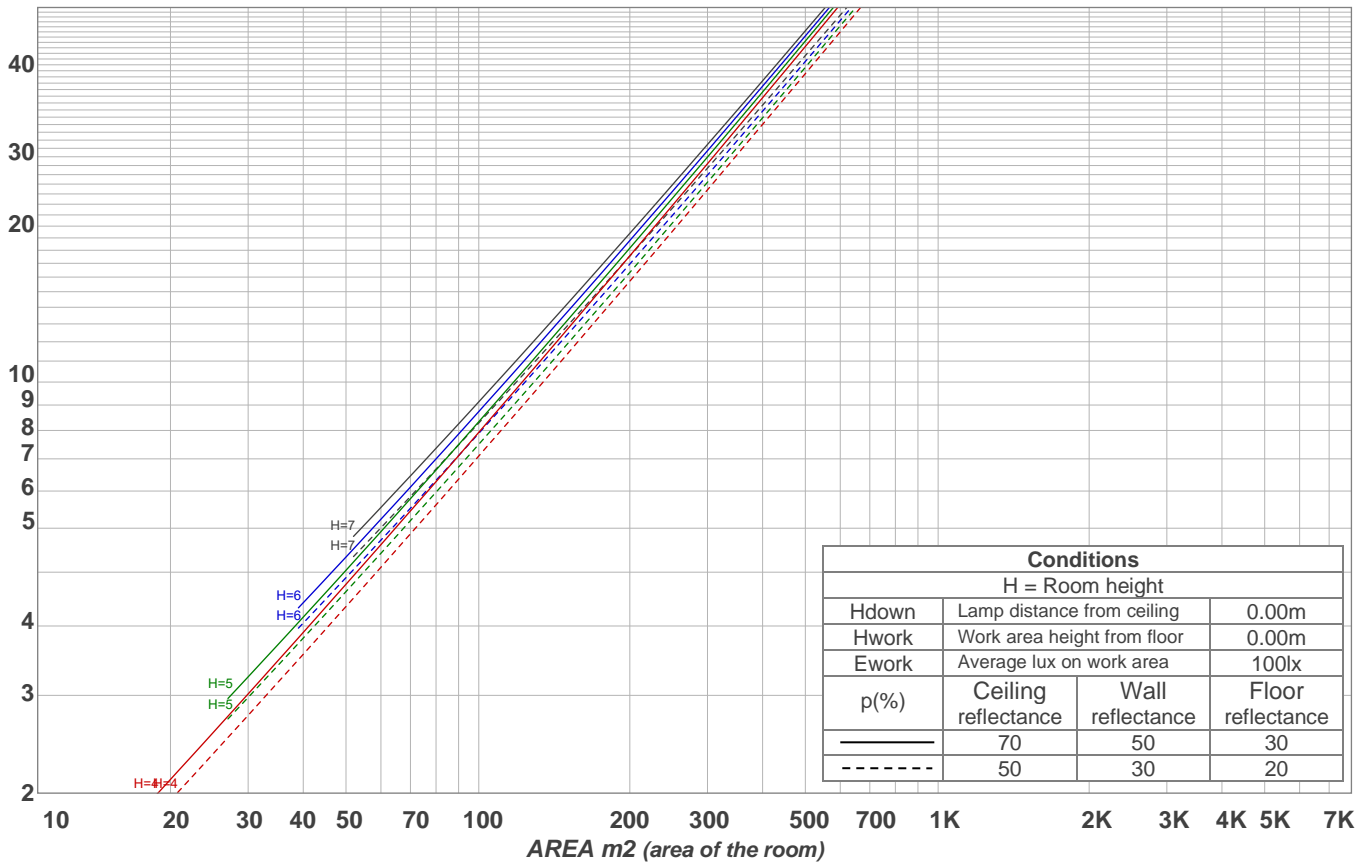
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3236	3236	3185	3103	2992	2849	2669	2416	2112	1795	1489	1204	930	656	408	204	61	17	8	7
100%	100%	98%	96%	92%	88%	82%	75%	65%	55%	46%	37%	29%	20%	13%	6%	2%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38.2°	57.4°	63.4°	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		
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92		
3	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91	89	88	88		
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84		
5	99	93	88	85	98	92	88	84	90	87	84	89	86	83	87	85	82	81	81		
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	84	82	79	78	78		
7	93	85	81	78	91	85	81	77	84	80	77	83	79	77	82	79	76	75	75		
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	73	73		
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70	70		
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68	68		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
289 lm	610 lm	352 lm	19.5 lm	2.90 lm	2.61 lm	2.67 lm	2.39 lm	3.36 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