

Light efficiency:



Output: 1246 lm

Light quality:

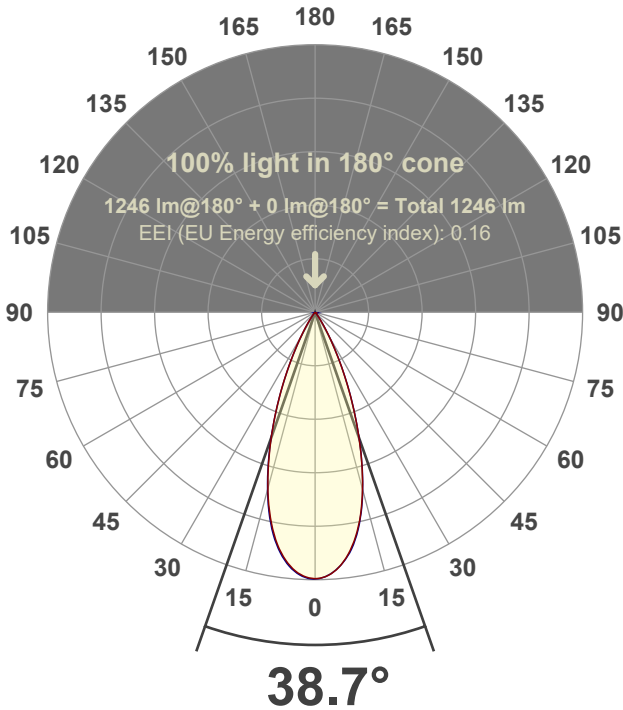


Peak: 2836 cd

Power: 14.2 W



Beam angle



Test number:

**GR-F-CZ14-30k-FL-RD-91A-Rev2**

Luminaire Model:

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

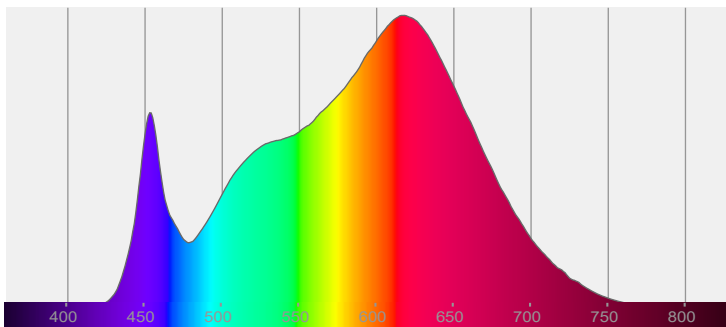
Date and time:

**3/9/2022 4:46:33 PM**

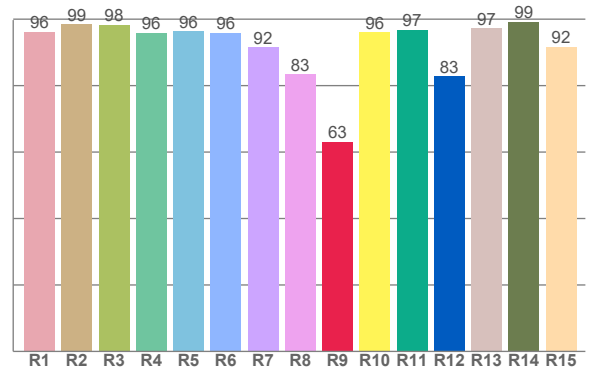
Delivered Lumens

**1246**

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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
94.5	63.1	92.1	100.4	91.8	0.425	0.393	0.247	0.344	-0.0026

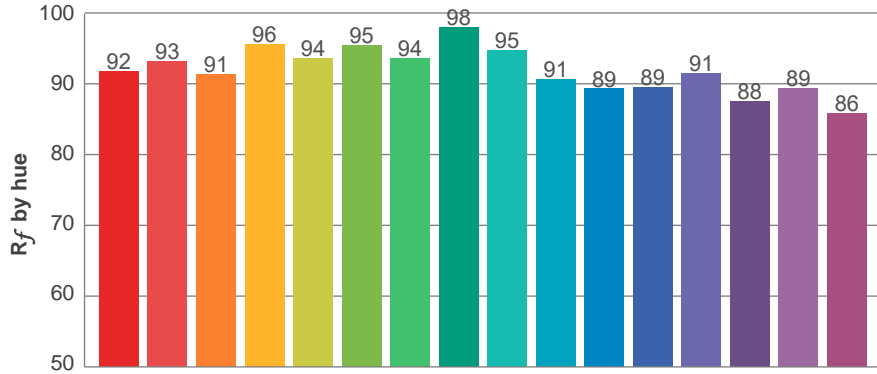
**$R_f$  92.1**  
Fidelity index  $R_f$

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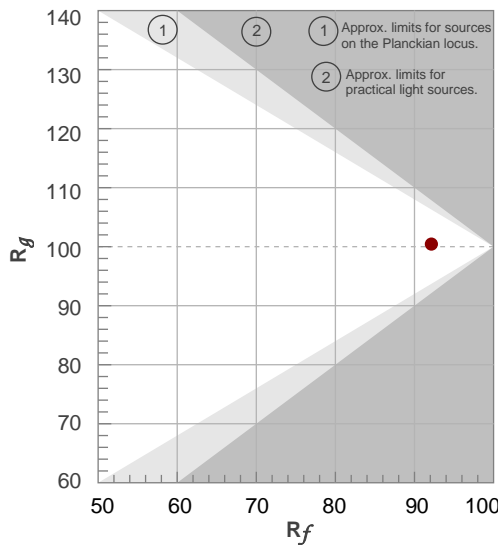
**$R_g$  100.4**  
Gammut index  $R_g$

TM30: 92.1

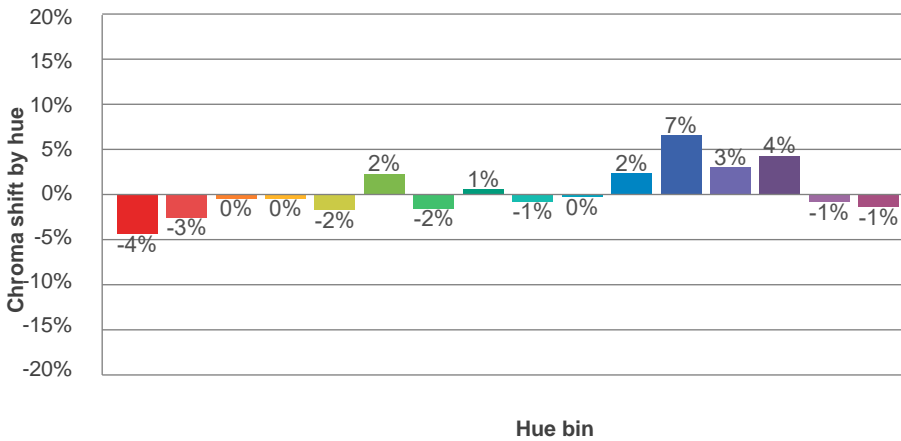
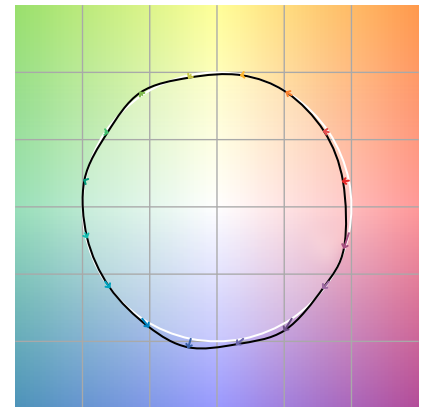
TM-30Color



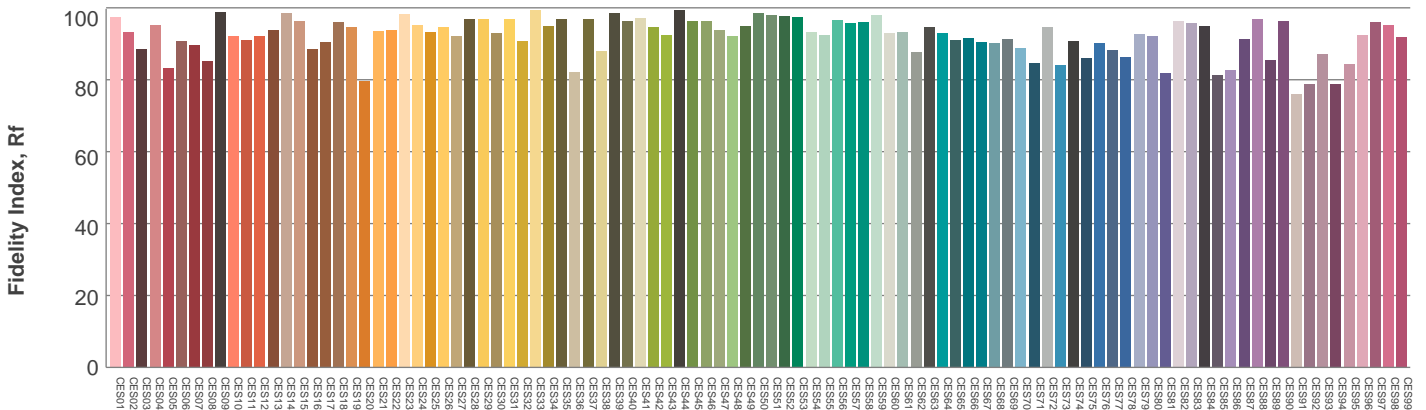
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	3%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



Color vector graphics

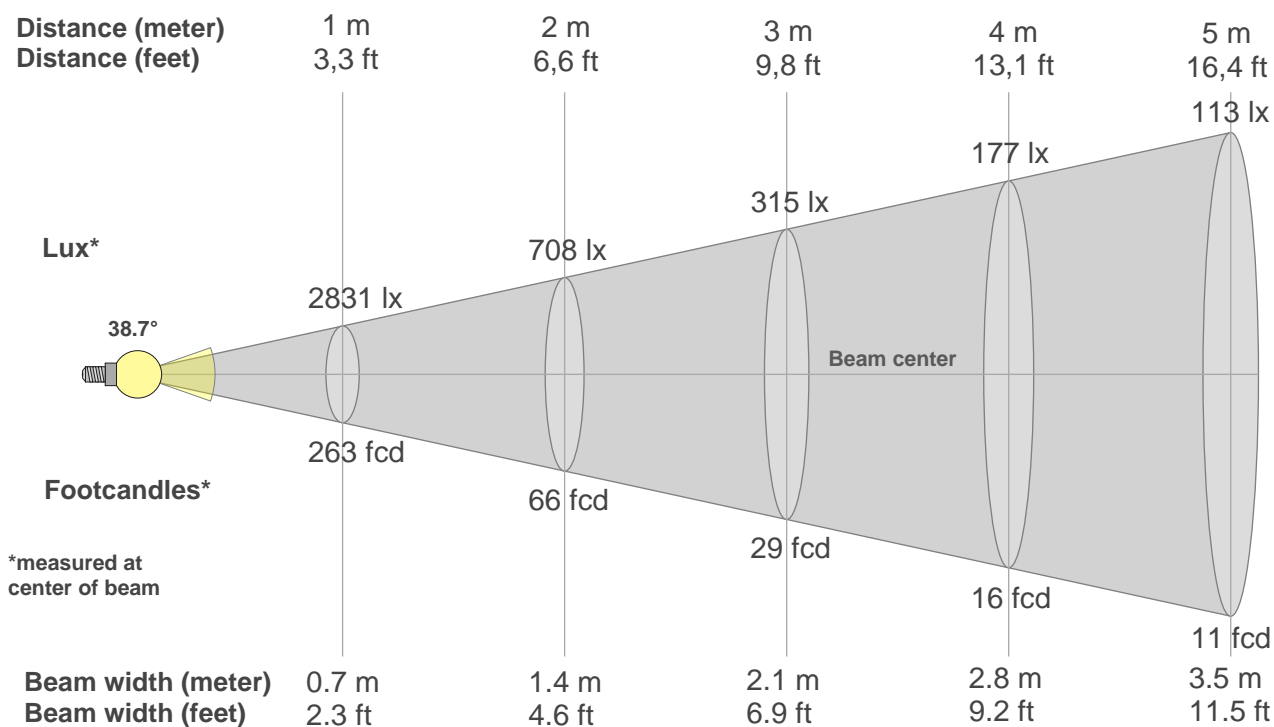


Color distortion



Color Evaluation Sample

### 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
2831lx	708lx	315lx	177lx	113lx	79lx	58lx	44lx	35lx	28lx	23lx	20lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx	7lx
263fcd	65.7fcd	29.2fcd	16.4fcd	10.5fcd	7.3fcd	5.4fcd	4.1fcd	3.2fcd	2.6fcd	2.2fcd	1.8fcd	1.6fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd

#### 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°
2831	2813	2767	2691	2584	2443	2269	2062	1832	1585	1330	1085	857	652	474	329	222	148	98	66
100%	99%	98%	95%	91%	86%	80%	73%	65%	56%	47%	38%	30%	23%	17%	12%	8%	5%	3%	2%

#### 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°
2831	2814	2769	2693	2590	2452	2279	2073	1838	1587	1333	1089	859	646	466	325	218	142	92	61
100%	99%	98%	95%	92%	87%	81%	73%	65%	56%	47%	38%	30%	23%	16%	11%	8%	5%	3%	2%

#### 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°
2831	2816	2769	2689	2579	2437	2262	2059	1824	1580	1333	1091	859	652	477	336	229	153	102	71
100%	100%	98%	95%	91%	86%	80%	73%	64%	56%	47%	39%	30%	23%	17%	12%	8%	5%	4%	3%

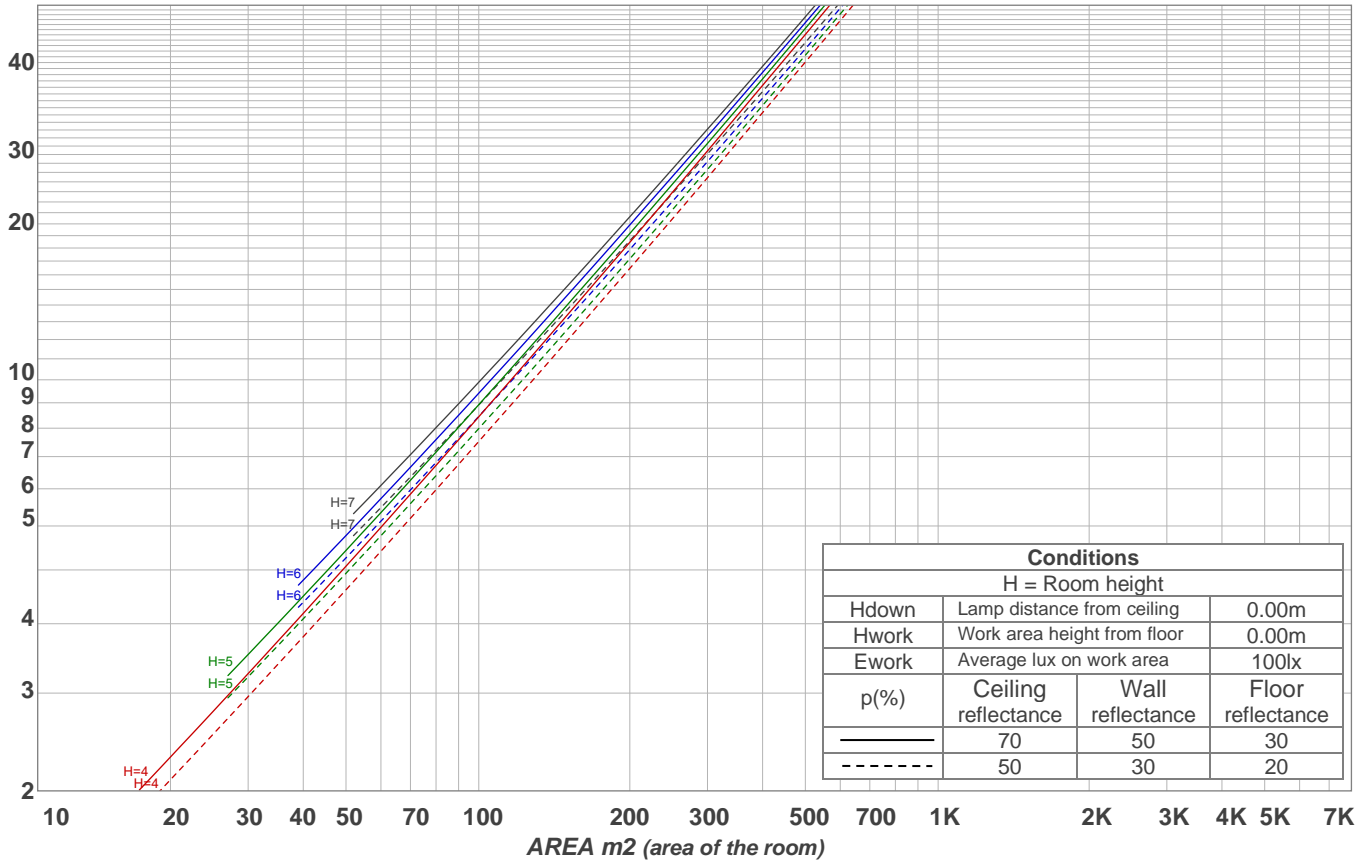
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2831	2819	2777	2706	2598	2456	2279	2071	1837	1588	1333	1086	854	643	460	315	210	137	88	58
100%	100%	98%	96%	92%	87%	81%	73%	65%	56%	47%	38%	30%	23%	16%	11%	7%	5%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38.7°	61.4°	75°	99.2%	98.0%

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86	86	86	
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82	82	82	
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78	78	78	
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75	75	75	
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72	72	72	
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69	69	69	
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64	64	64	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
252 lm	530 lm	344 lm	83.4 lm	18.2 lm	7.87 lm	4.85 lm	2.61 lm	2.75 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

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