

Light efficiency:



Output: 1205 lm

Light quality:

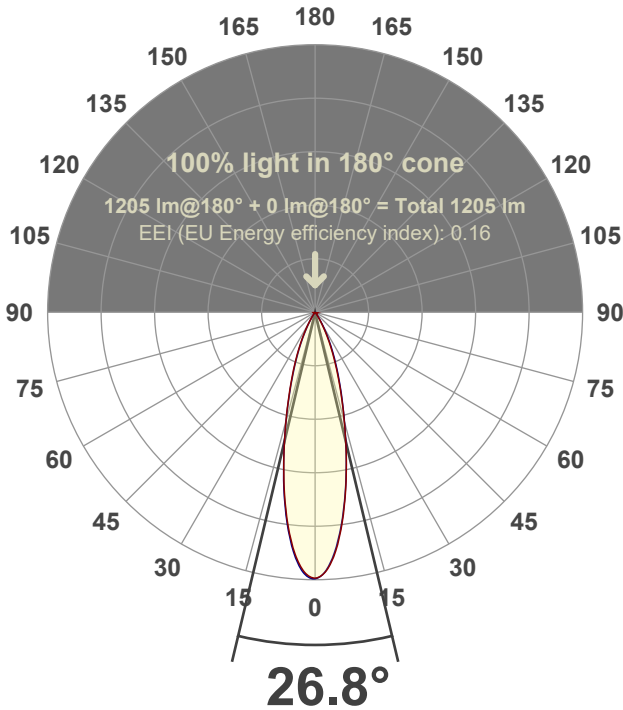


Peak: 4277 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

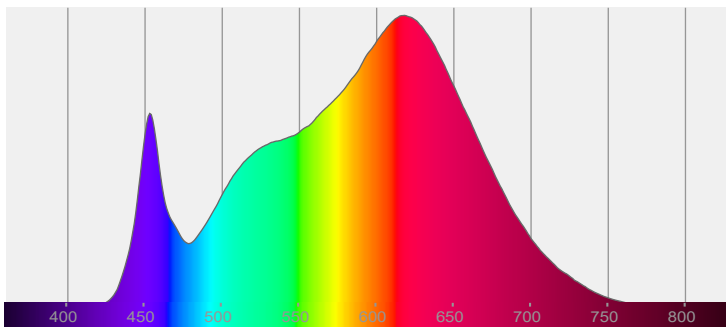
Date and time:

3/9/2022 4:51:24 PM

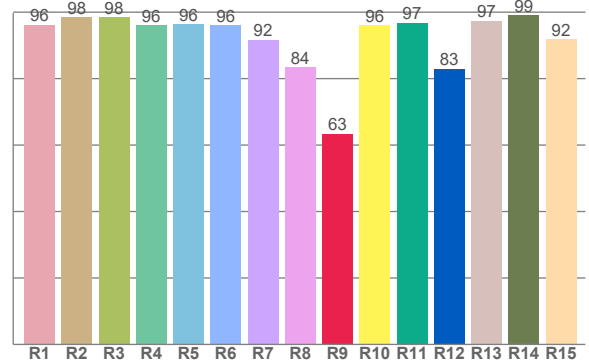
Delivered Lumens

1205

Spectra



CRI: 94.6 (R1-R8)



Color parameters

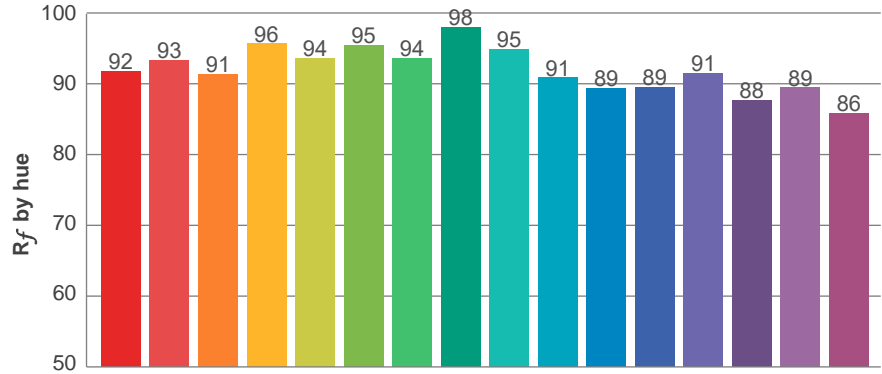
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
94.6	63.4	92.2	100.5	91.8	0.426	0.394	0.248	0.344	-0.0026

R_f 92.2
Fidelity index R_f

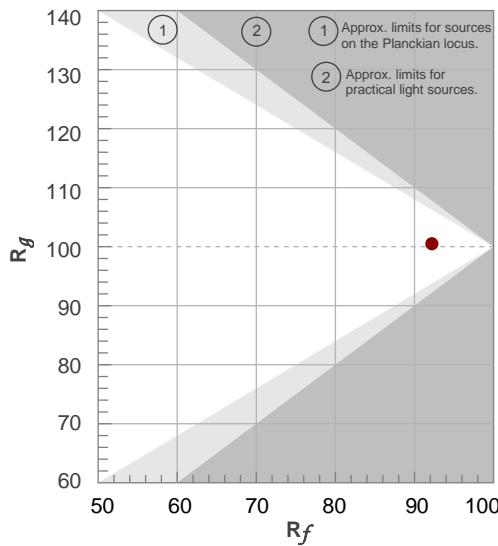
R_g 100.5
Gammut index R_g

TM30: 92.2

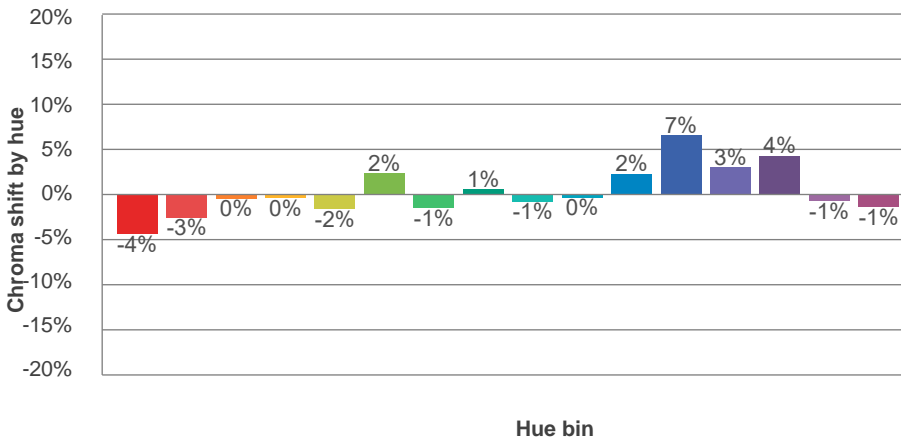
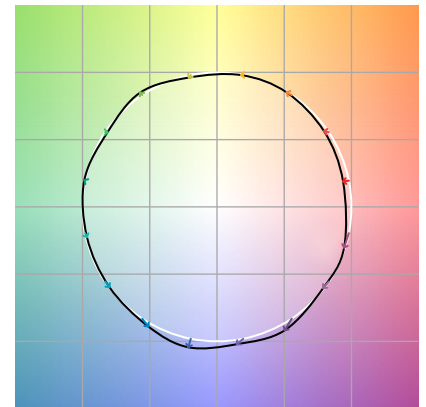
TM-30Color



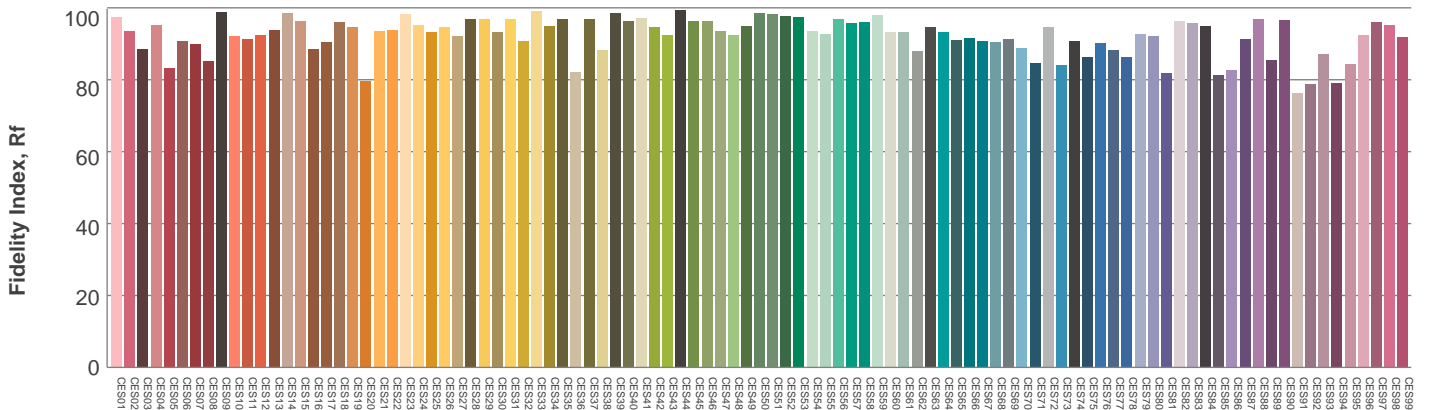
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-1%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



Color vector graphics

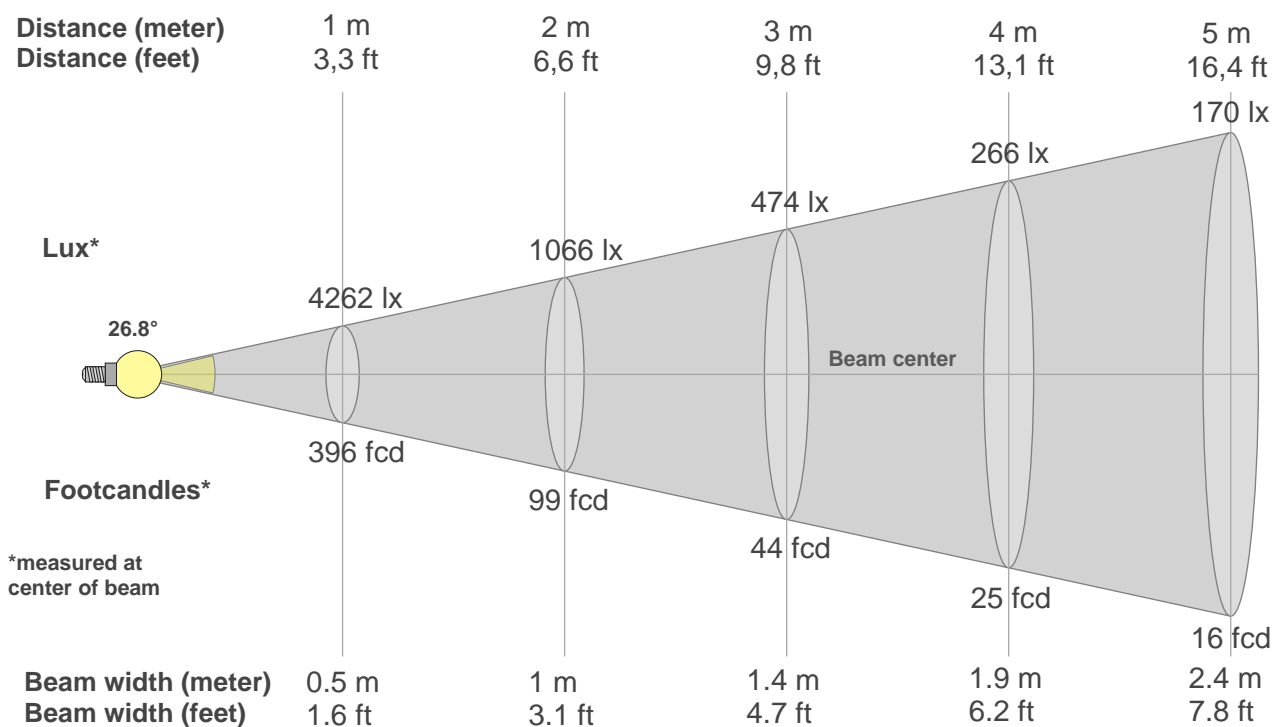


Color distortion



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
4262lx	1066lx	474lx	266lx	170lx	118lx	87lx	67lx	53lx	43lx	35lx	30lx	25lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
396fcd	99fcd	44fcd	24.7fcd	15.8fcd	11fcd	8.1fcd	6.2fcd	4.9fcd	4fcd	3.3fcd	2.7fcd	2.3fcd	2fcd	1.8fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd	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°
4262	4172	3962	3651	3266	2845	2420	2015	1654	1340	1070	842	657	496	360	250	168	112	76	53
100%	98%	93%	86%	77%	67%	57%	47%	39%	31%	25%	20%	15%	12%	8%	6%	4%	3%	2%	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°
4262	4177	3944	3621	3240	2828	2408	2012	1667	1367	1109	890	703	543	404	287	194	128	86	59
100%	98%	93%	85%	76%	66%	56%	47%	39%	32%	26%	21%	16%	13%	9%	7%	5%	3%	2%	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°
4262	4185	3978	3670	3290	2865	2423	2013	1648	1333	1068	846	658	500	367	260	178	120	83	59
100%	98%	93%	86%	77%	67%	57%	47%	39%	31%	25%	20%	15%	12%	9%	6%	4%	3%	2%	1%

Intensities in 270° c-plane

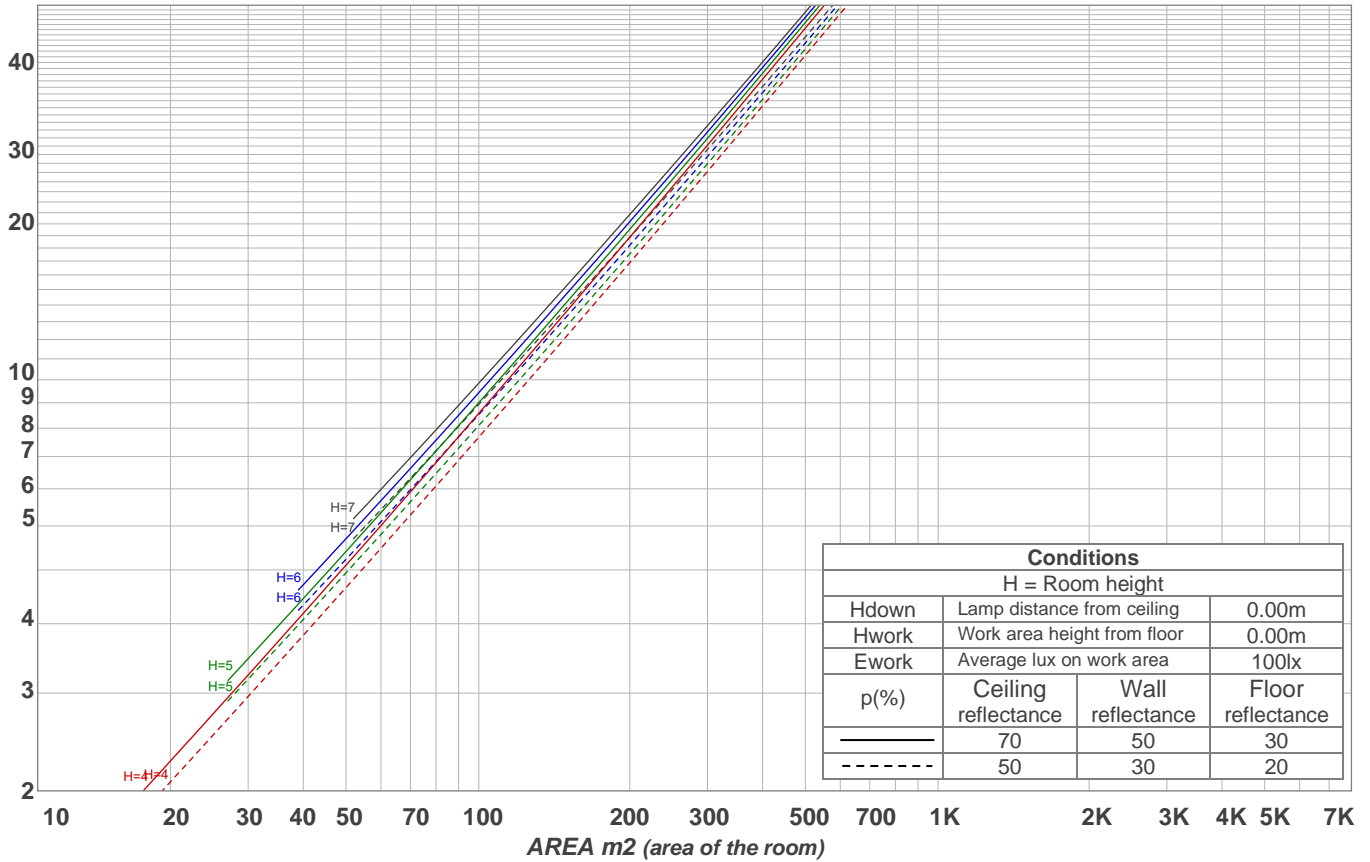
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4262	4201	4007	3704	3321	2887	2431	2006	1627	1301	1029	806	619	458	325	221	145	98	67	47
100%	99%	94%	87%	78%	68%	57%	47%	38%	31%	24%	19%	15%	11%	8%	5%	3%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26.8°	54°	68.7°	99.0%	97.9%

www.graffitilighting.com As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
333 lm	502 lm	268 lm	66.9 lm	15.8 lm	7.52 lm	4.77 lm	3.15 lm	3.35 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

www.graffitilighting.com As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.