

Light efficiency:



Output: 1626 lm

Light quality:

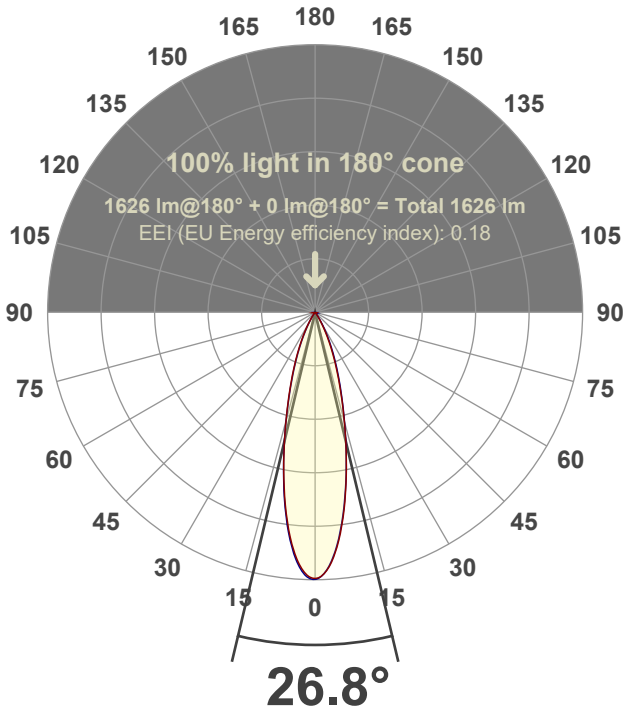


Peak: 5777 cd

Power: 20.8 W



Beam angle



Test number:

GR-F-CZ20-30k-NF-RD-91A-Rev2

Luminaire Model:

Graffiti Regress Round Fixed Downlight-CZ20 30k 24° Optic-Solite

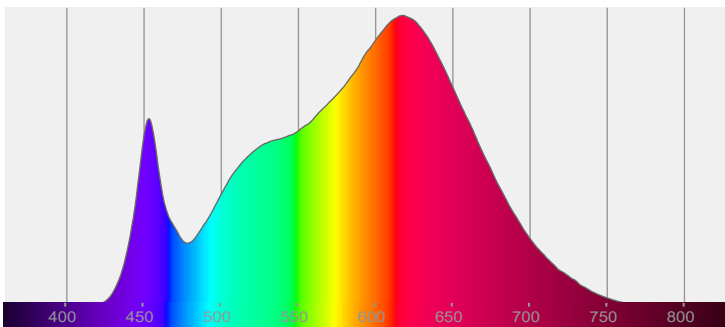
Date and time:

3/9/2022 4:54:10 PM

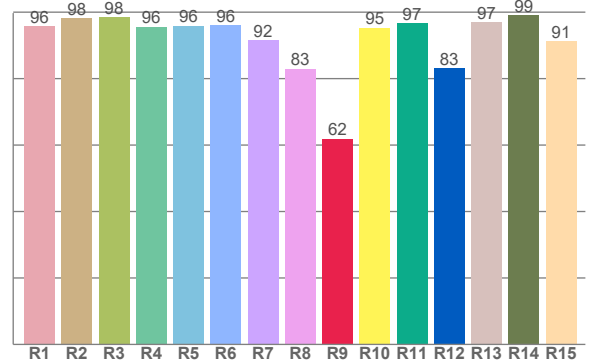
Delivered Lumens

1626

Spectra



CRI: 94.3 (R1-R8)



Color parameters

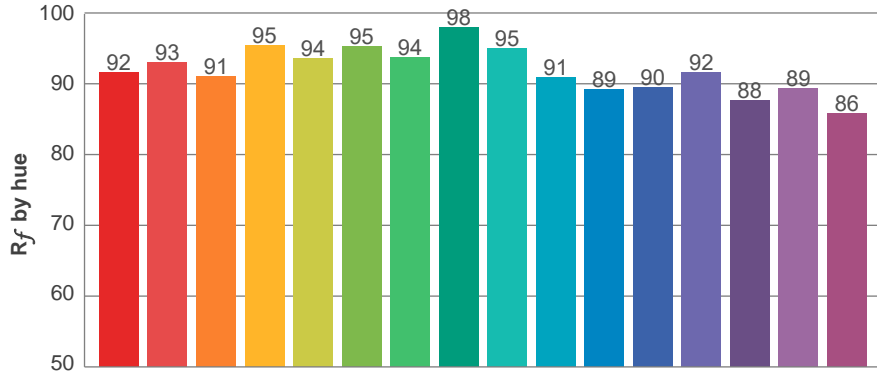
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
94.3	61.9	92.1	100.4	91.6	0.425	0.394	0.247	0.344	-0.0024

R_f 92.1
Fidelity index R_f

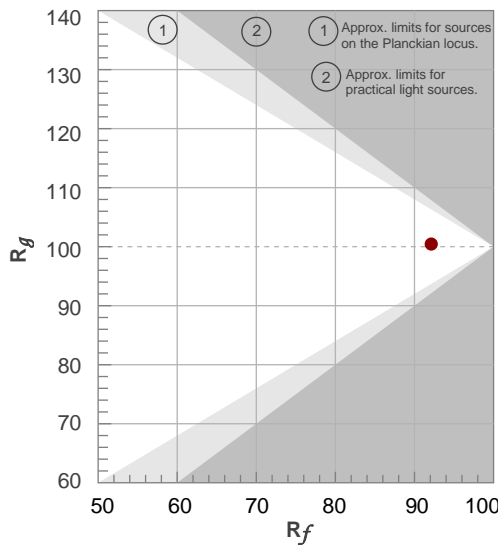
R_g 100.4
Gammut index R_g

TM30: 92.1

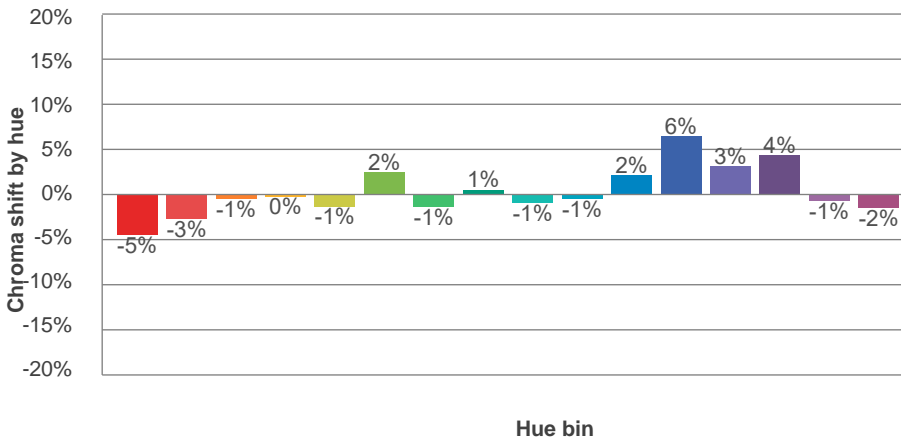
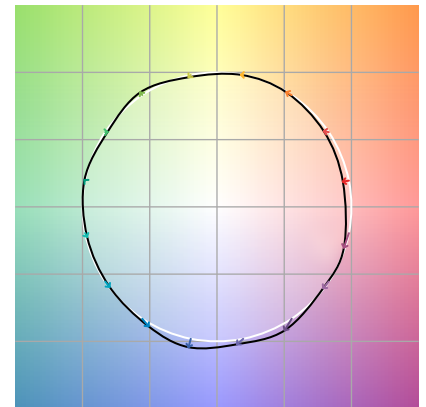
TM-30Color



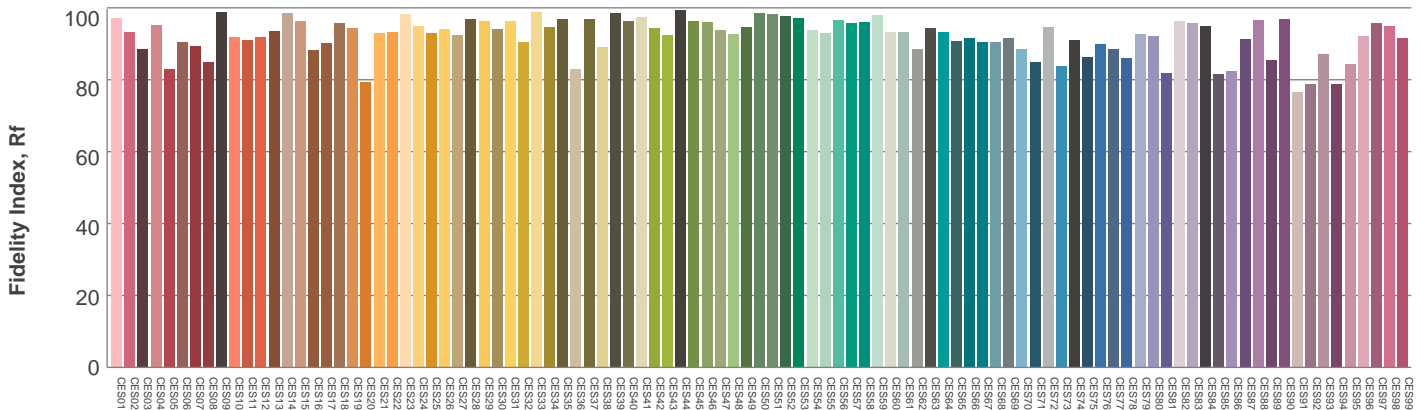
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-5%	0%
2	93	-3%	3%
3	91	-1%	4%
4	95	0%	2%
5	94	-1%	2%
6	95	2%	0%
7	94	-1%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	7%
12	90	6%	0%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



Color vector graphics

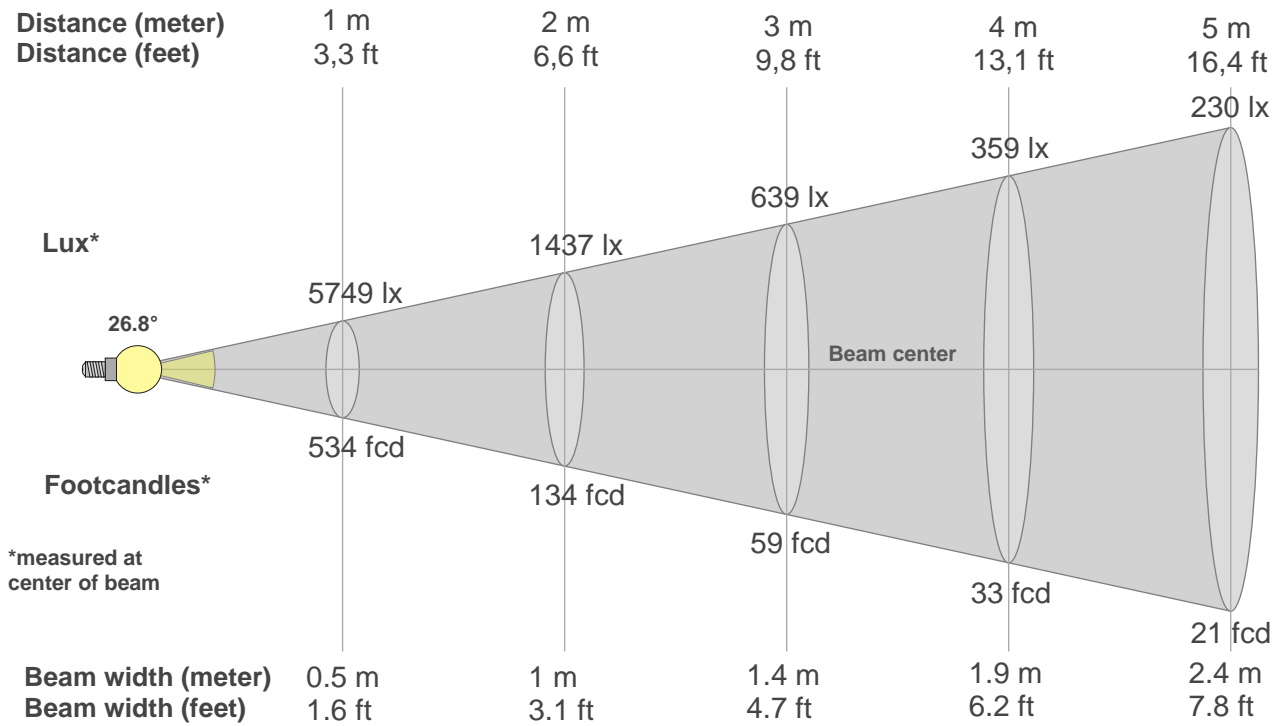


Color distortion



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
5749lx	1437lx	639lx	359lx	230lx	160lx	117lx	90lx	71lx	57lx	48lx	40lx	34lx	29lx	26lx	22lx	20lx	18lx	16lx	14lx
534.1fcd	133.5fcd	59.3fcd	33.4fcd	21.4fcd	14.8fcd	10.9fcd	8.3fcd	6.6fcd	5.3fcd	4.4fcd	3.7fcd	3.2fcd	2.7fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.5fcd	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°
5749	5634	5366	4951	4421	3845	3272	2727	2229	1800	1448	1148	889	666	479	338	230	153	101	68
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°
5749	5630	5334	4908	4388	3821	3259	2730	2253	1841	1493	1206	956	736	546	383	262	176	118	80
100%	98%	93%	85%	76%	66%	57%	47%	39%	32%	26%	21%	17%	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°
5749	5654	5401	4973	4445	3869	3282	2719	2214	1799	1447	1147	889	669	496	353	243	164	111	77
100%	98%	94%	86%	77%	67%	57%	47%	39%	31%	25%	20%	15%	12%	9%	6%	4%	3%	2%	1%

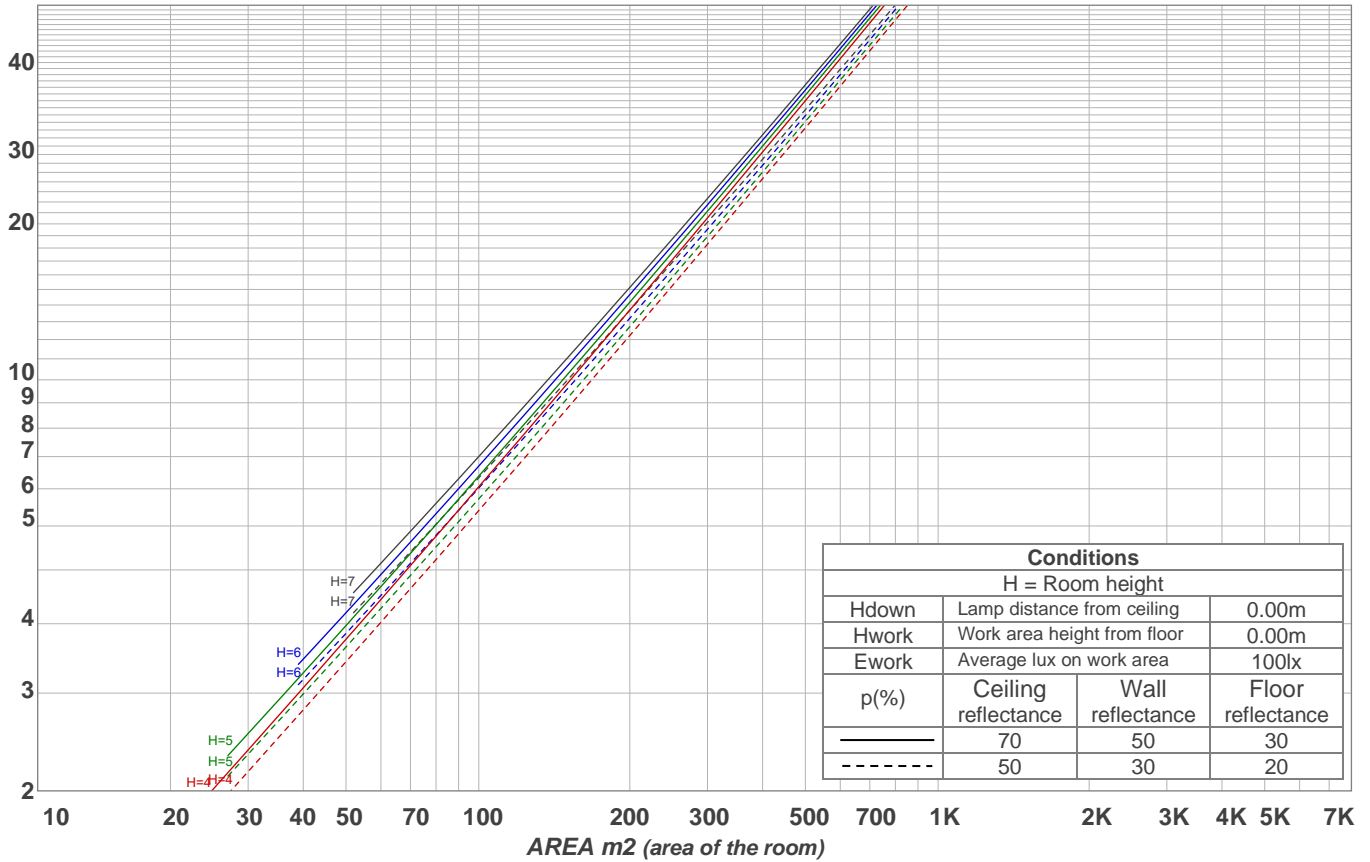
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5749	5716	5435	5014	4489	3901	3290	2708	2196	1762	1397	1091	831	617	440	302	200	130	89	63
100%	99%	95%	87%	78%	68%	57%	47%	38%	31%	24%	19%	14%	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°	99.1%	98.1%

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	0
Floor reflectance	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
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	94	93	92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88
4	103	97	92	89	101	96	92	88	94	90	87	92	89	86	90	87	85	84
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75
8	90	82	78	75	89	82	77	74	81	77	74	80	76	74	79	76	74	73
9	87	79	75	72	86	79	75	72	78	74	72	77	74	71	77	73	71	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
452 lm	678 lm	361 lm	90.2 lm	21.1 lm	9.67 lm	5.97 lm	3.48 lm	4.08 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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