

Light efficiency:



Output: 1674 lm

Light quality:

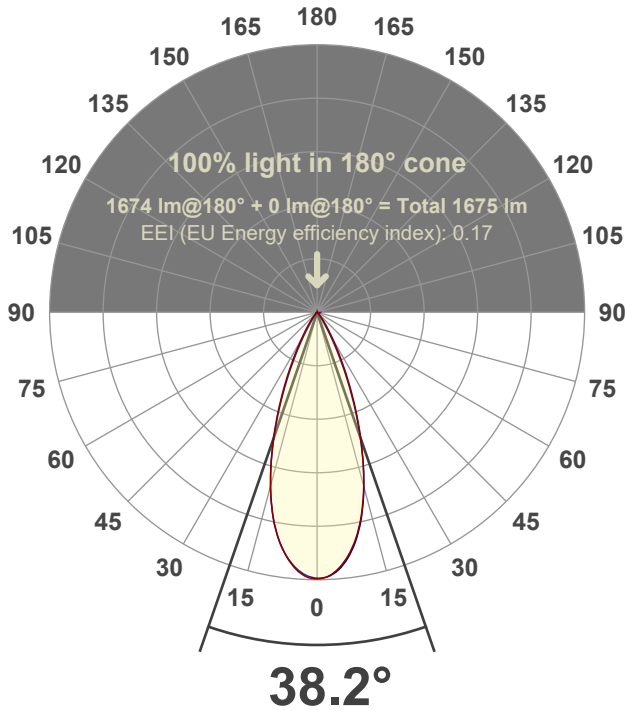


Peak: 3807 cd

Power: 20.7 W



Beam angle



Test number:

GR-F-CZ20-30k-FL-SQ-91A-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-CZ20 30k 38° Optic-Solite

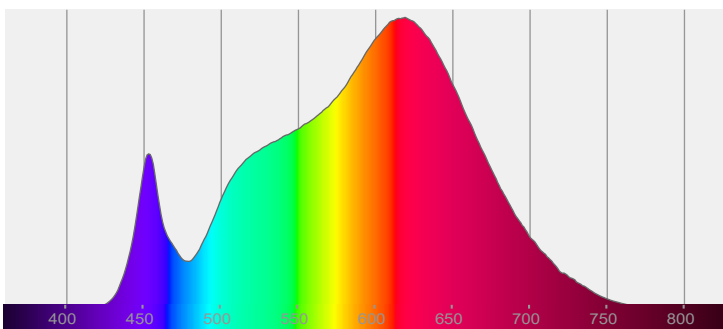
Date and time:

6/30/2022 8:01:18 PM

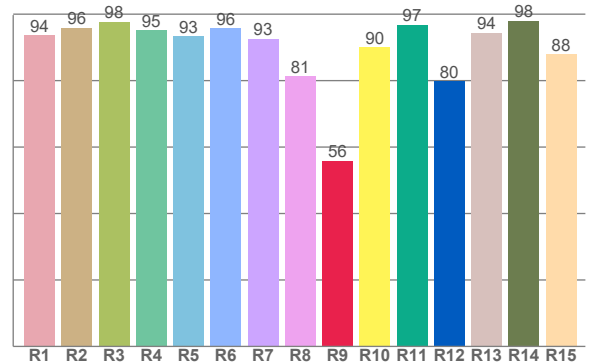
Delivered Lumens

1674

Spectra



CRI: 93.2 (R1-R8)



Color parameters

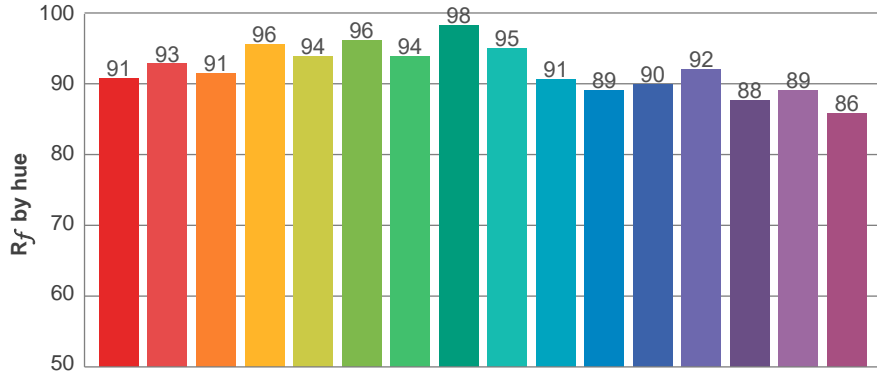
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
93.2	55.9	92.1	99.2	91.6	0.437	0.408	0.249	0.349	0.0015

R_f 92.1
Fidelity index R_f

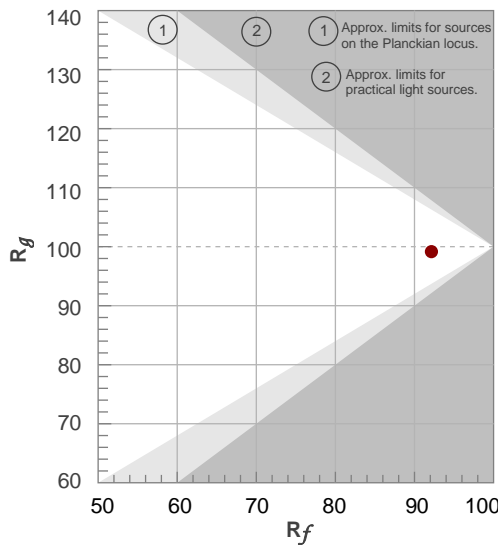
R_g 99.2
Gammut index R_g

TM30: 92.1

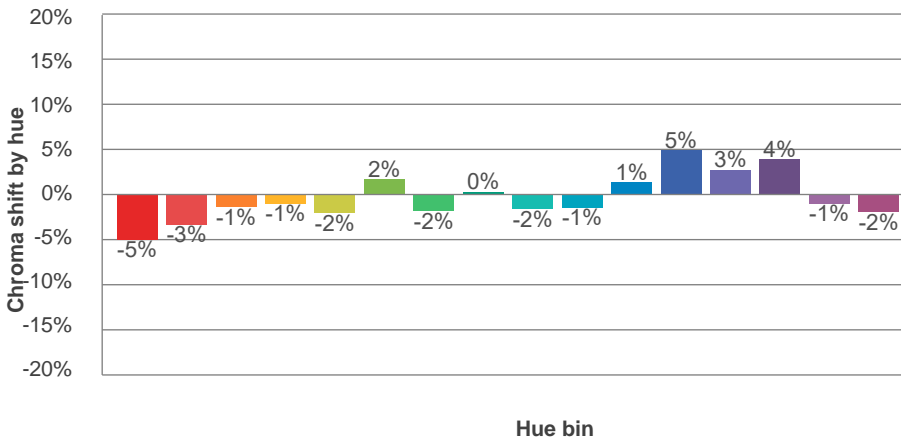
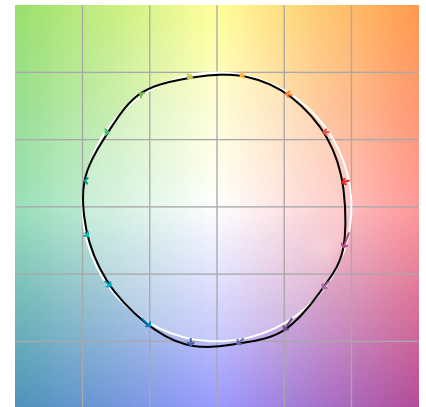
TM-30Color



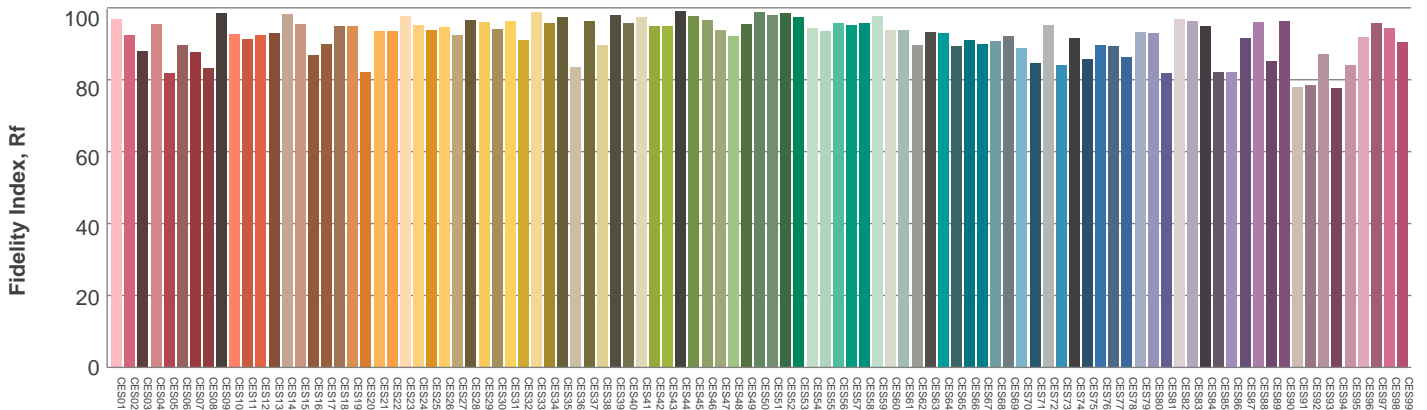
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	91	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



Color vector graphics

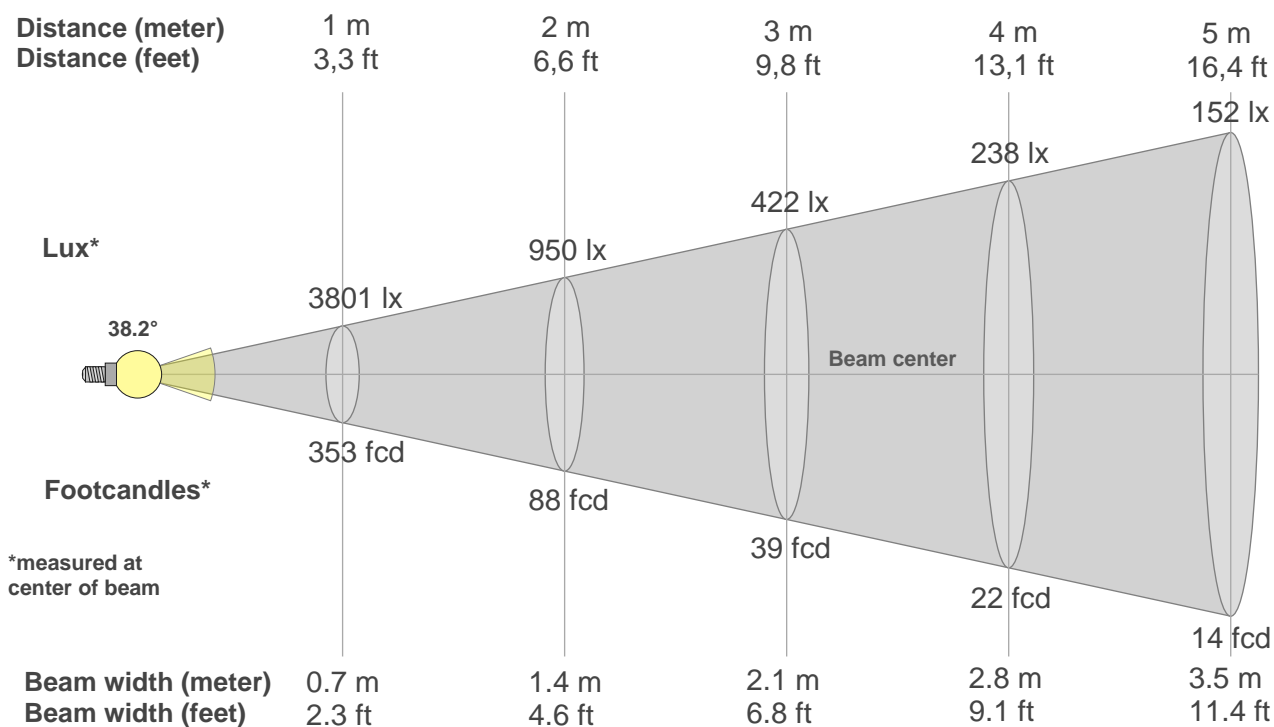


Color distortion



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
3801lx	950lx	422lx	238lx	152lx	106lx	78lx	59lx	47lx	38lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx	10lx
353.1fcd	88.3fcd	39.2fcd	22.1fcd	14.1fcd	9.8fcd	7.2fcd	5.5fcd	4.4fcd	3.5fcd	2.9fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

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°
3801	3778	3705	3590	3437	3245	3007	2725	2416	2093	1767	1449	1151	893	674	498	364	267	197	148
100%	99%	97%	94%	90%	85%	79%	72%	64%	55%	46%	38%	30%	23%	18%	13%	10%	7%	5%	4%

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°
3801	3781	3720	3611	3459	3264	3026	2739	2420	2079	1736	1402	1084	801	572	395	266	178	121	85
100%	99%	98%	95%	91%	86%	80%	72%	64%	55%	46%	37%	29%	21%	15%	10%	7%	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°
3801	3785	3712	3595	3440	3247	3013	2729	2416	2092	1767	1451	1155	891	673	499	366	267	196	146
100%	100%	98%	95%	90%	85%	79%	72%	64%	55%	46%	38%	30%	23%	18%	13%	10%	7%	5%	4%

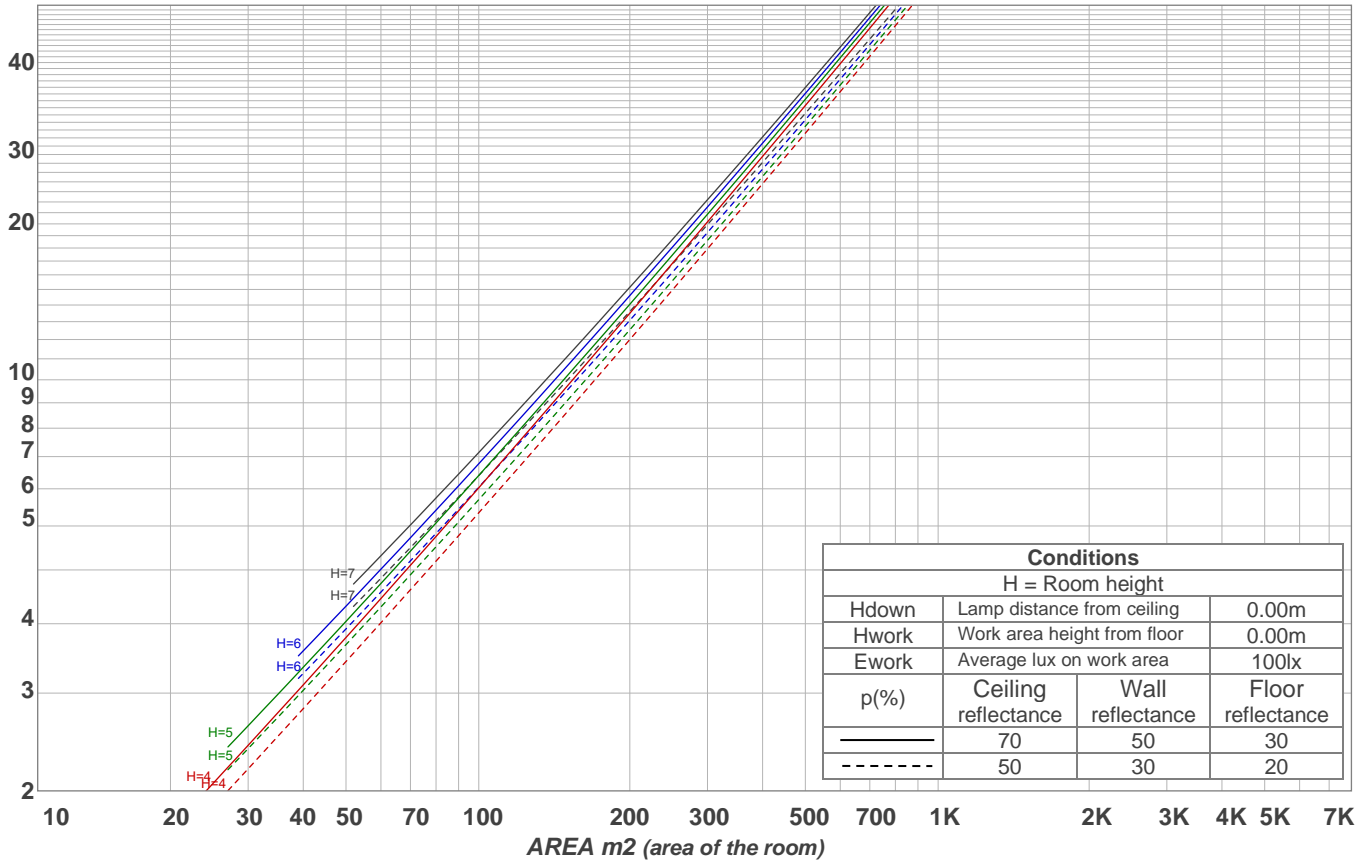
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3801	3765	3693	3583	3433	3241	3007	2724	2410	2076	1736	1402	1084	804	572	394	266	178	121	85
100%	99%	97%	94%	90%	85%	79%	72%	63%	55%	46%	37%	29%	21%	15%	10%	7%	5%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38.2°	61.9°	78.5°	99.1%	97.8%

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	105	102	99	107	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86	86	86	
4	101	95	90	87	99	94	89	86	92	88	85	90	87	84	88	85	83	82	82	82	
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78	78	78	
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	81	78	76	75	75	75	
7	90	82	77	74	89	82	77	74	81	76	73	79	76	73	78	75	73	71	71	71	
8	87	79	74	70	86	78	74	70	77	73	70	76	73	70	75	72	69	68	68	68	
9	84	76	71	67	83	75	71	67	74	70	67	74	70	67	73	69	67	66	66	66	
10	81	73	68	65	80	72	68	65	72	67	64	71	67	64	70	67	64	63	63	63	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
336 lm	701 lm	452 lm	127 lm	32.9 lm	10.3 lm	6.36 lm	4.31 lm	3.95 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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