

Light efficiency:



Output: 894 lm

Light quality:

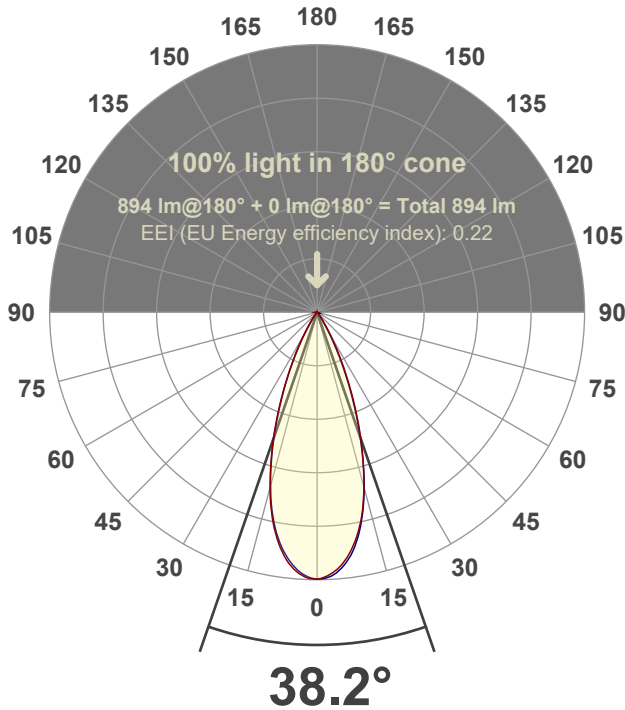


Peak: 2076 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-3022-FL-RD-91A-Rev2

Luminaire Model:

Graffiti Regress Round Fixed Downlight-A14-3022 38° Optic-Solite

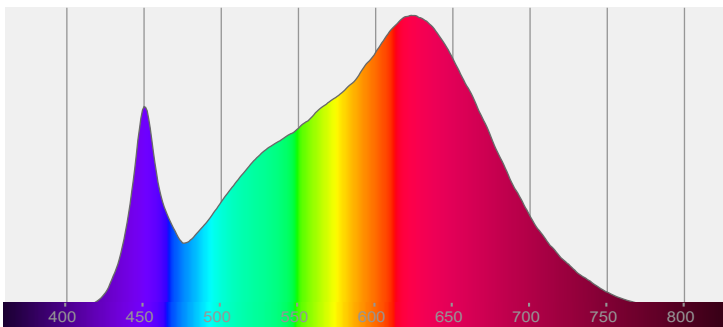
Date and time:

3/24/2022 5:06:24 PM

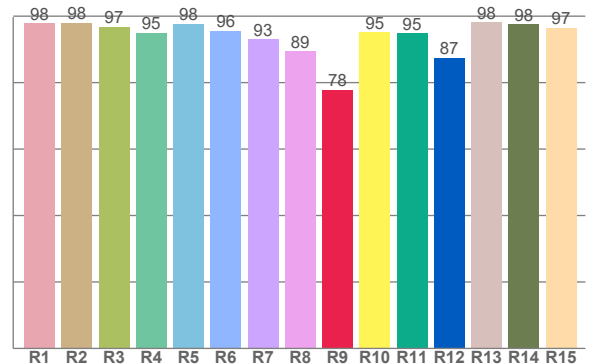
Delivered Lumens

894

Spectra



CRI: 95.5 (R1-R8)



Color parameters

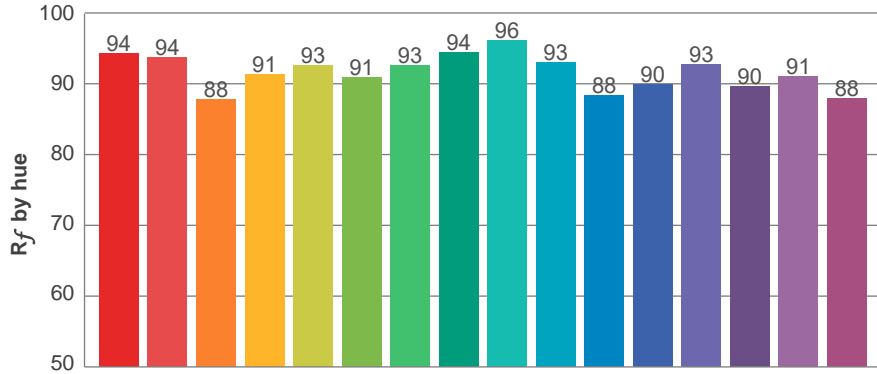
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
95.5	77.8	91.8	103.8	90.7	0.422	0.383	0.250	0.340	-0.0065

R_f 91.8
Fidelity index R_f

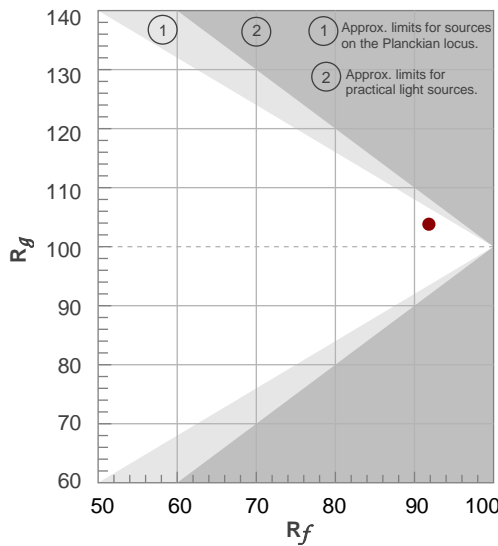
R_g 103.8
Gammut index R_g

TM30: 91.8

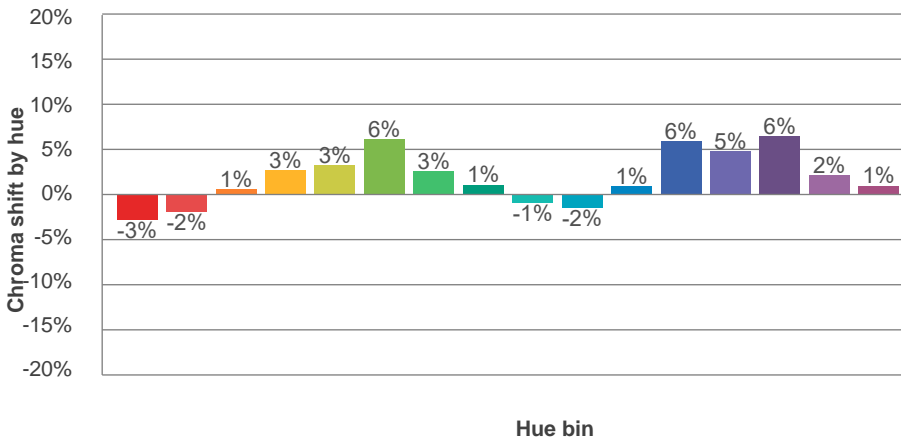
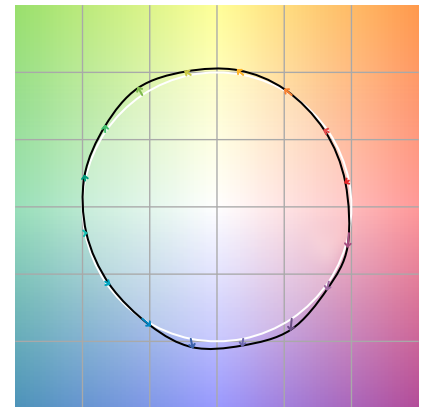
TM-30Color



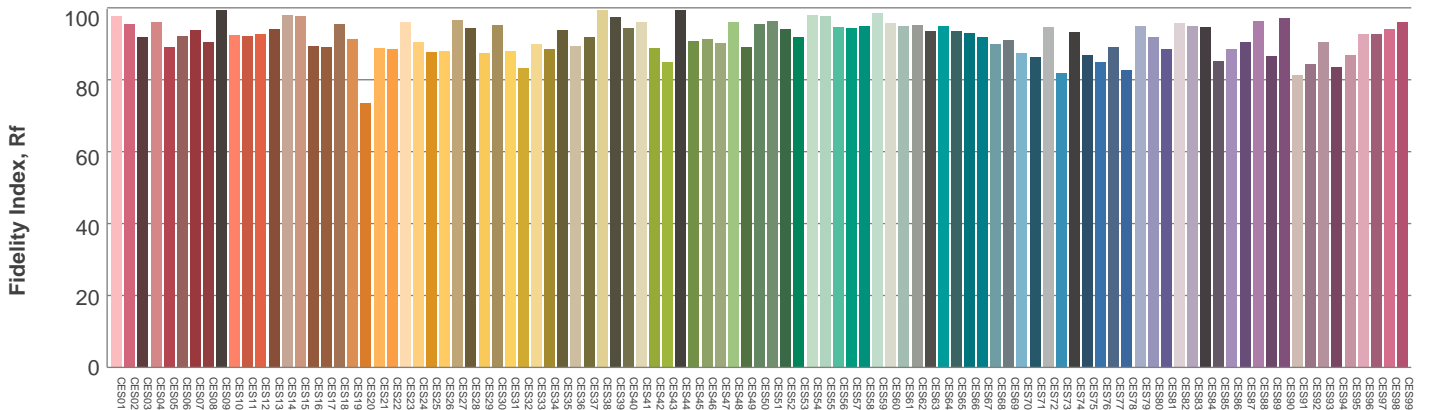
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-2%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-6%
16	88	1%	-10%



Color vector graphics



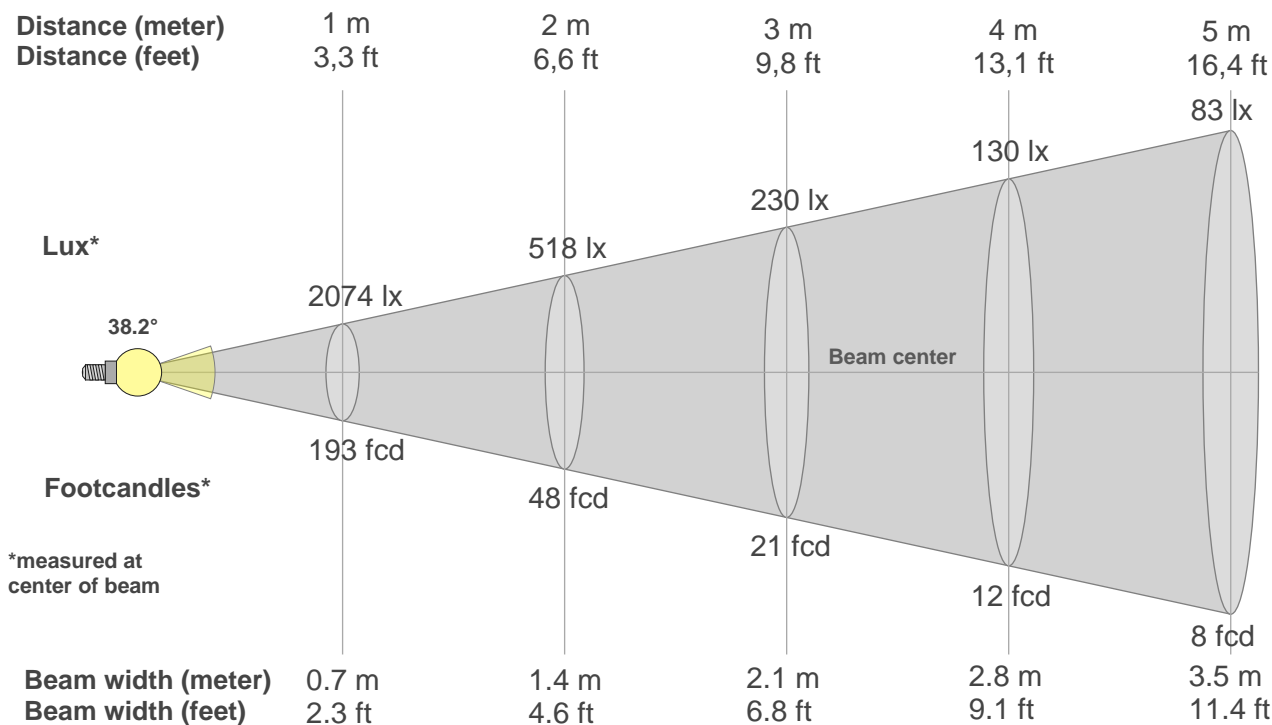
Color distortion



Color Evaluation Sample

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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
2074lx	518lx	230lx	130lx	83lx	58lx	42lx	32lx	26lx	21lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx
192.7fcd	48.2fcd	21.4fcd	12fcd	7.7fcd	5.4fcd	3.9fcd	3fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

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°
2074	2054	2015	1957	1877	1775	1647	1493	1322	1144	963	784	619	472	345	241	160	109	74	50
100%	99%	97%	94%	91%	86%	79%	72%	64%	55%	46%	38%	30%	23%	17%	12%	8%	5%	4%	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°
2074	2066	2038	1984	1903	1794	1660	1503	1328	1134	944	762	592	438	307	209	137	88	57	38
100%	100%	98%	96%	92%	87%	80%	72%	64%	55%	46%	37%	29%	21%	15%	10%	7%	4%	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°
2074	2070	2035	1978	1896	1790	1661	1505	1327	1145	962	782	613	465	340	237	158	104	71	49
100%	100%	98%	95%	91%	86%	80%	73%	64%	55%	46%	38%	30%	22%	16%	11%	8%	5%	3%	2%

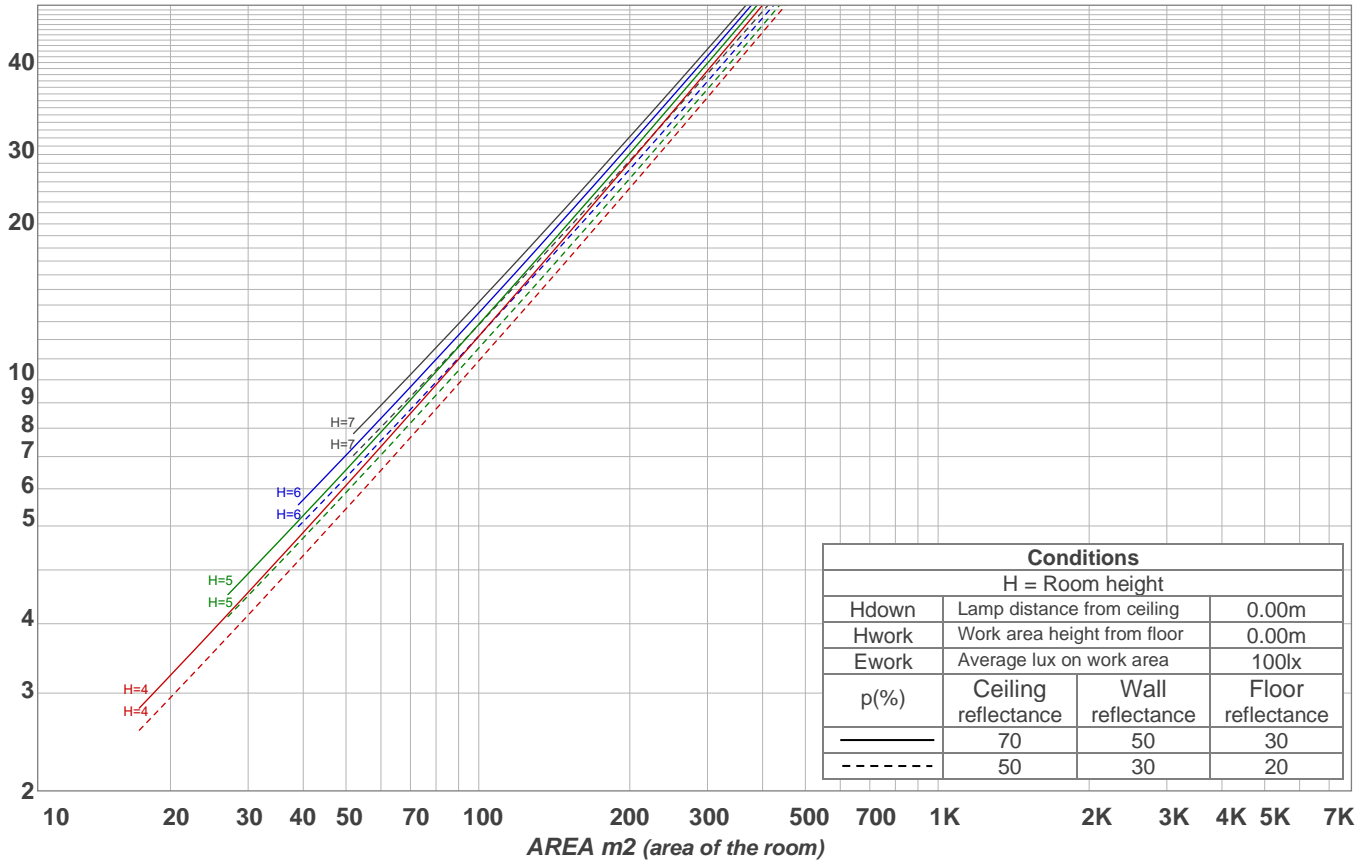
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2074	2058	2020	1959	1875	1769	1641	1488	1315	1132	945	766	599	449	317	217	142	90	57	37
100%	99%	97%	94%	90%	85%	79%	72%	63%	55%	46%	37%	29%	22%	15%	10%	7%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38.2°	60.9°	74.2°	99.1%	97.9%

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	91	91	91	
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86	86	86	
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82	82	82	
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79	79	79	
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75	75	75	
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	69	69	
9	84	76	72	68	83	76	71	68	75	71	68	74	70	68	74	70	68	66	66	66	
10	81	73	69	66	81	73	69	65	72	68	65	72	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°
184 lm	383 lm	243 lm	56.9 lm	12.4 lm	5.97 lm	3.89 lm	2.12 lm	2.17 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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