

Light efficiency:



Output: 697 lm

Light quality:

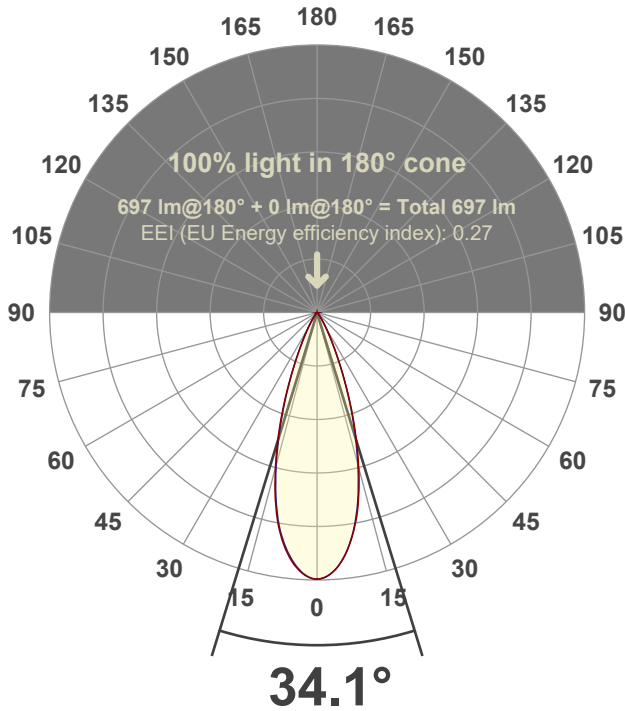


Peak: 1884 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

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

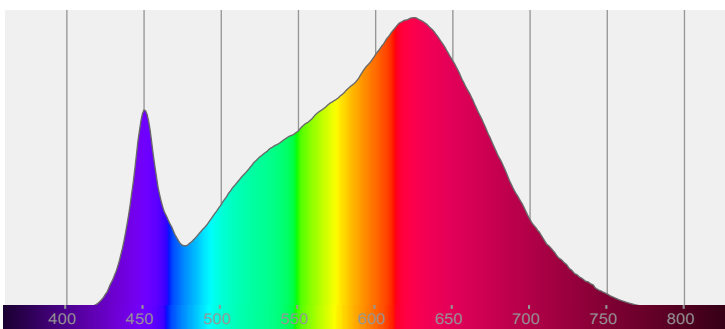
Date and time:

3/24/2022 4:58:19 PM

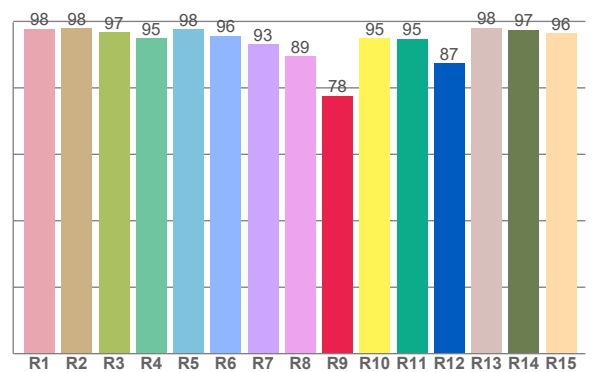
Delivered Lumens

697

Spectra



CRI: 95.4 (R1-R8)



Color parameters

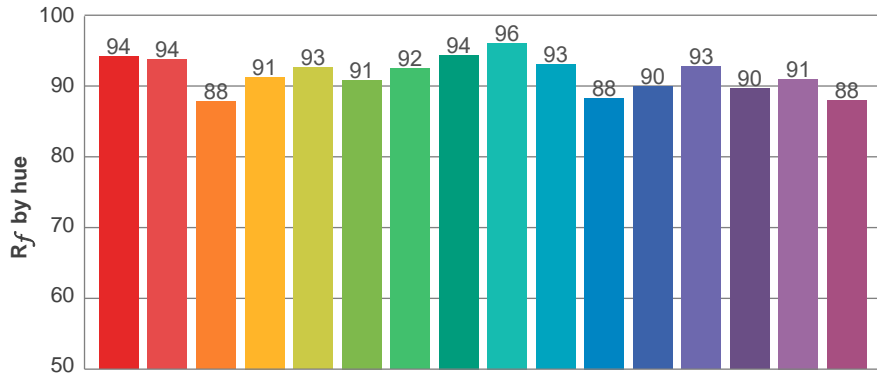
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	95.4	77.6	91.8	103.8	90.7	0.422	0.384	0.250	0.341	-0.0063

R_f 91.8
Fidelity index R_f

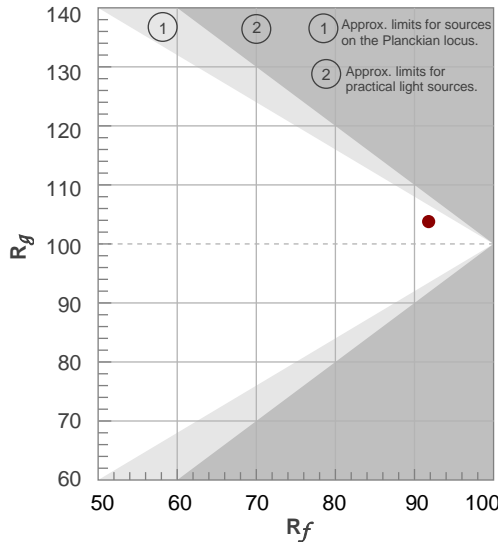
R_g 103.8
Gammut index R_g

TM30: 91.8

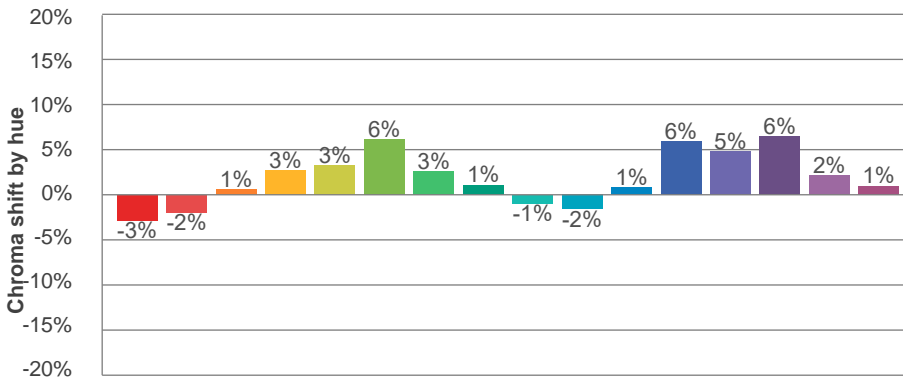
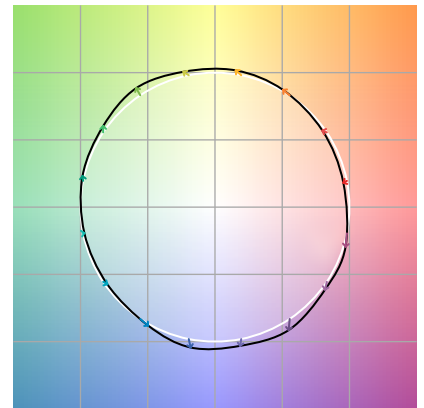
TM-30Color



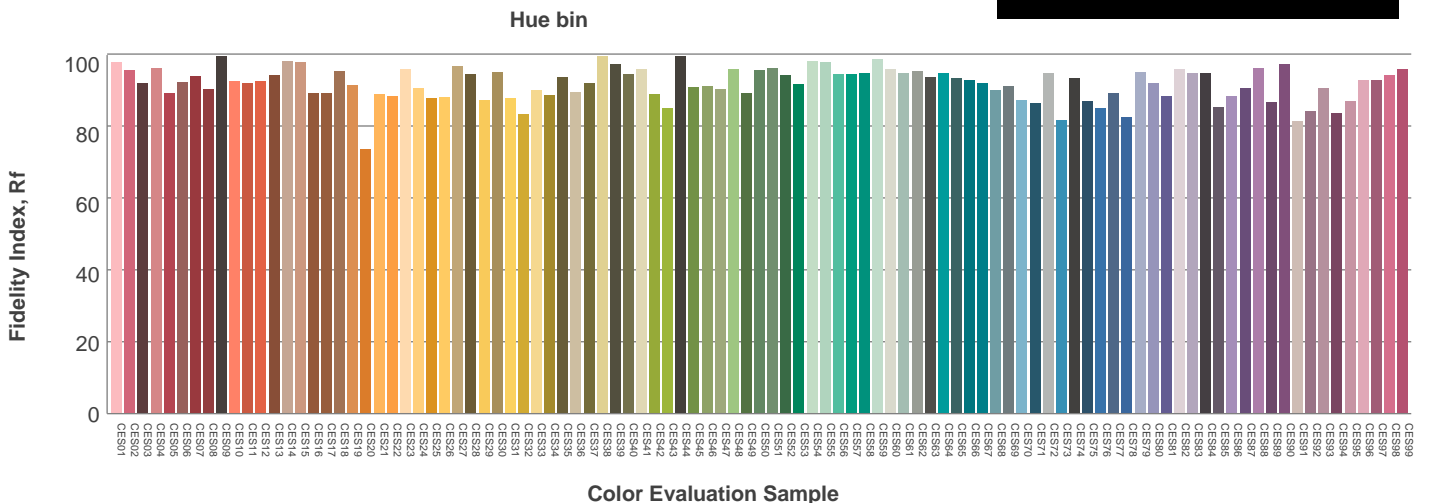
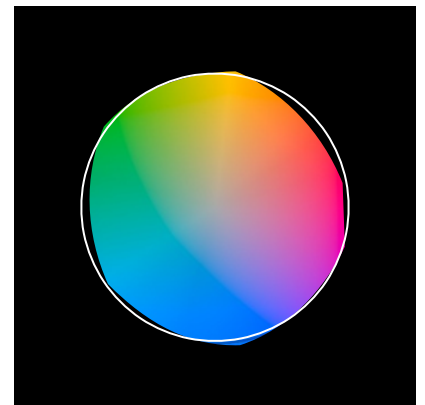
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	92	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-2%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-6%
16	88	1%	-10%



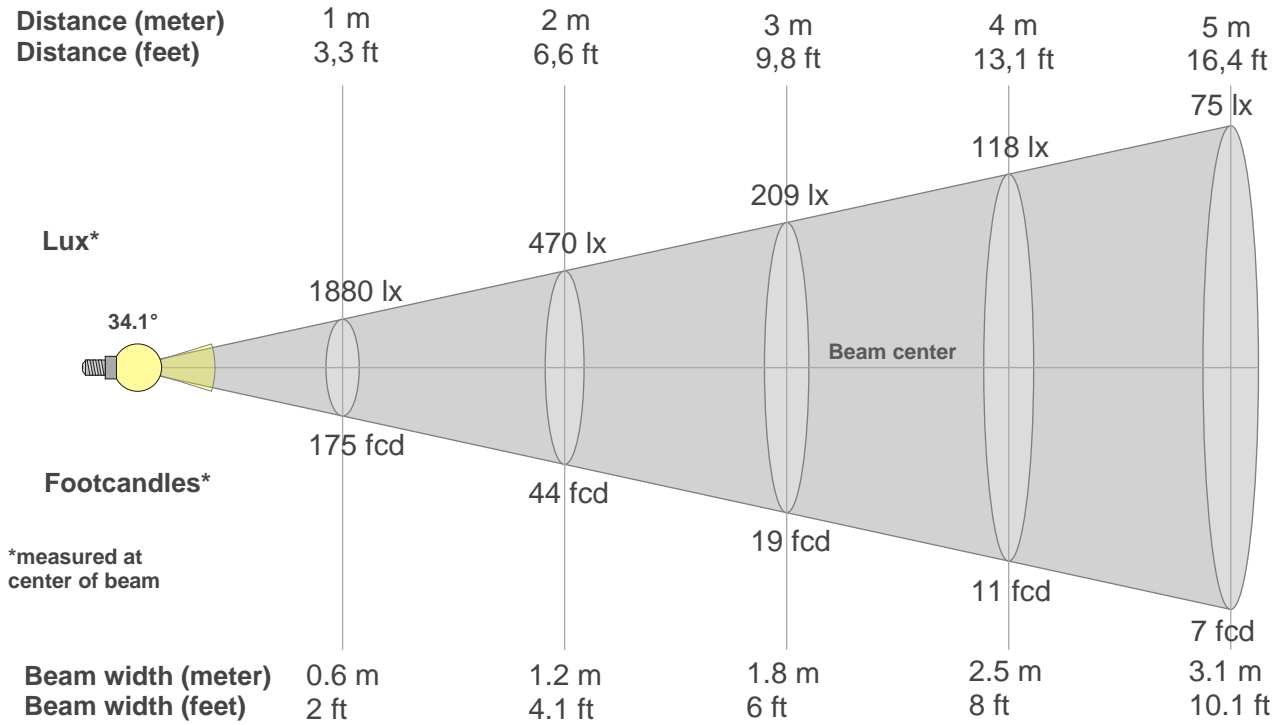
Color vector graphics



Color distortion



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
1880lx	470lx	209lx	118lx	75lx	52lx	38lx	29lx	23lx	19lx	16lx	13lx	11lx	10lx	8lx	7lx	7lx	6lx	5lx	5lx
174.7fcd	43.7fcd	19.4fcd	10.9fcd	7fcd	4.9fcd	3.6fcd	2.7fcd	2.2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1880	1864	1821	1748	1651	1532	1392	1229	1049	869	694	531	389	280	201	143	103	75	55	41
100%	99%	97%	93%	88%	81%	74%	65%	56%	46%	37%	28%	21%	15%	11%	8%	5%	4%	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°
1880	1866	1818	1745	1646	1525	1378	1206	1027	849	679	517	386	281	201	141	97	69	49	35
100%	99%	97%	93%	88%	81%	73%	64%	55%	45%	36%	28%	21%	15%	11%	7%	5%	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°
1880	1864	1823	1758	1666	1547	1400	1232	1050	868	690	527	386	274	195	141	104	76	56	42
100%	99%	97%	94%	89%	82%	74%	66%	56%	46%	37%	28%	21%	15%	10%	8%	6%	4%	3%	2%

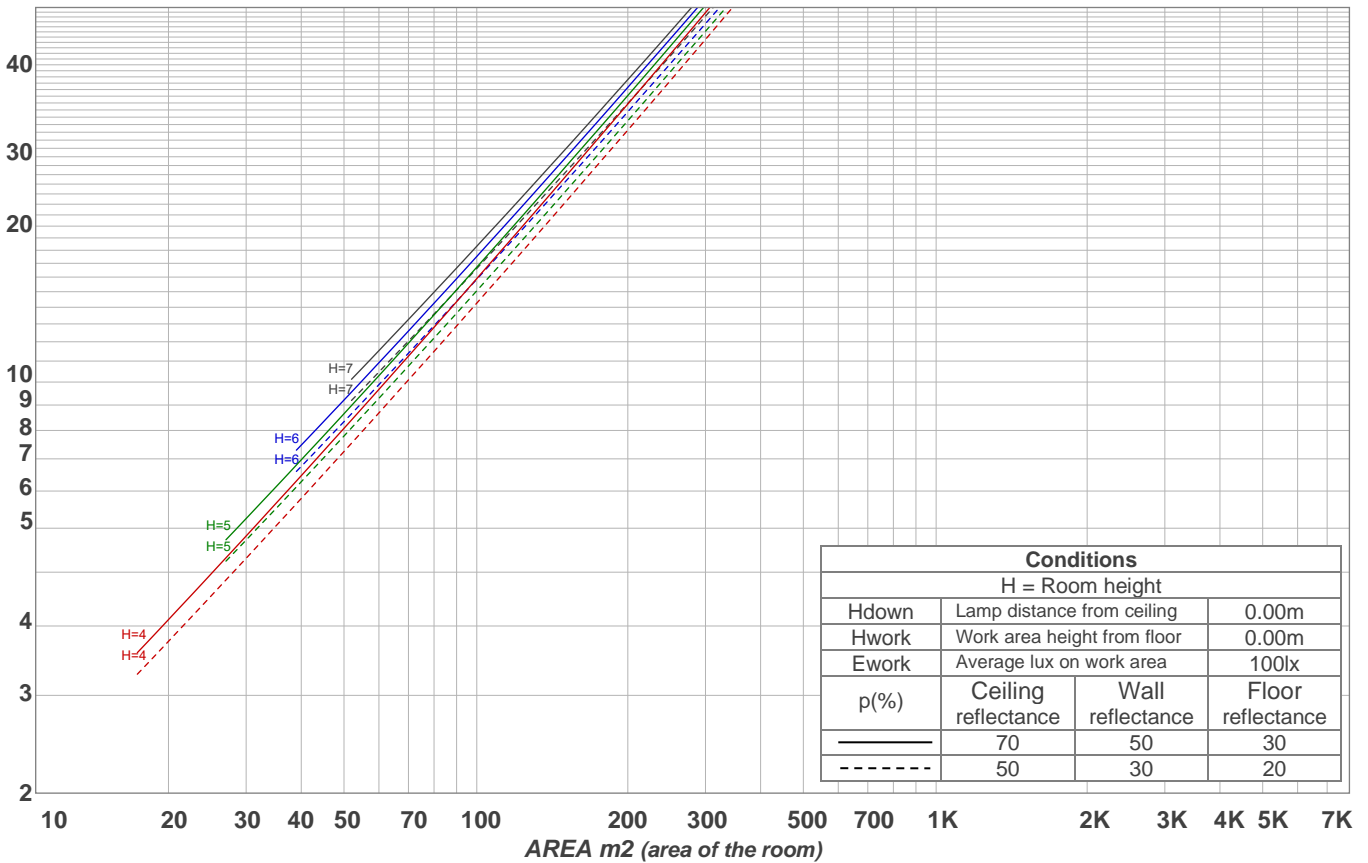
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1880	1863	1816	1744	1652	1536	1383	1211	1029	845	668	512	382	278	201	143	104	75	54	38
100%	99%	97%	93%	88%	82%	74%	64%	55%	45%	36%	27%	20%	15%	11%	8%	6%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34.1°	56.7°	73.7°	98.1%	96.7%

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	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95	95	95	
2	110	105	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	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82	82	82	
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79	79	79	
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73	73	73	
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70	70	70	
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67	67	67	
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65	65	65	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
163 lm	305 lm	157 lm	42.3 lm	11.4 lm	6.00 lm	5.43 lm	4.58 lm	2.99 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