

Light efficiency:



Output: 801 lm

Light quality:

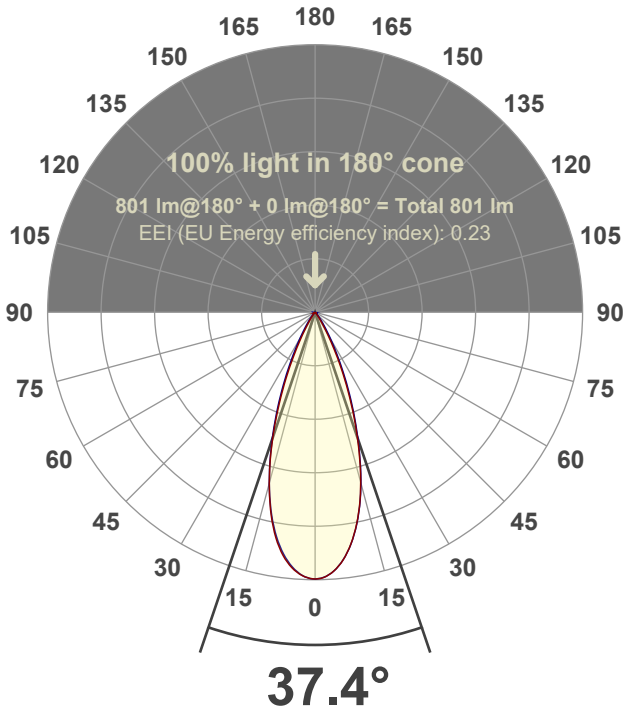


Peak: 1869 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-A14-3019-FL-SQ-91A-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3019 38° Optic-Solite

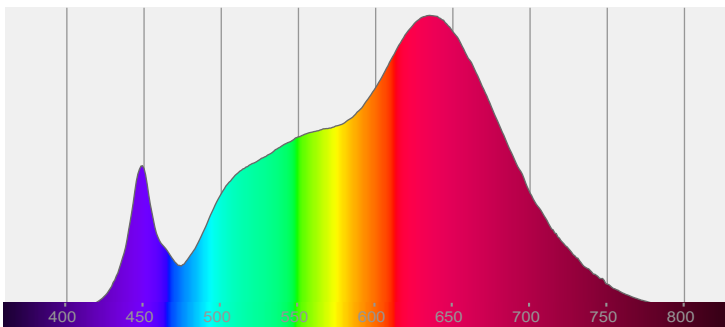
Date and time:

6/30/2022 11:48:48 AM

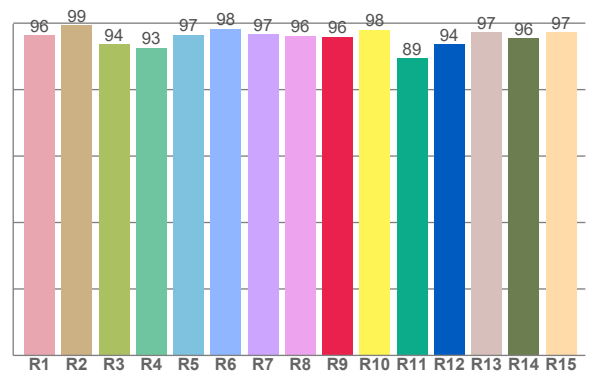
Delivered Lumens

801

Spectra



CRI: 96.2 (R1-R8)



Color parameters

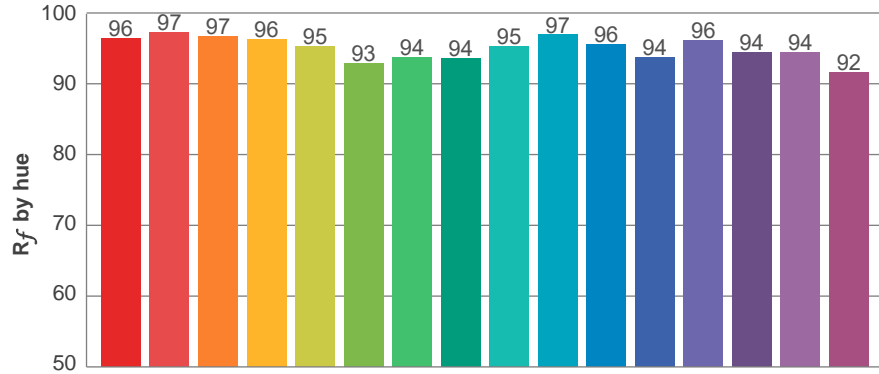
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
96.2	95.9	95.3	104.2	94.9	0.435	0.402	0.250	0.347	-0.0006

R_f 95.3
Fidelity index R_f

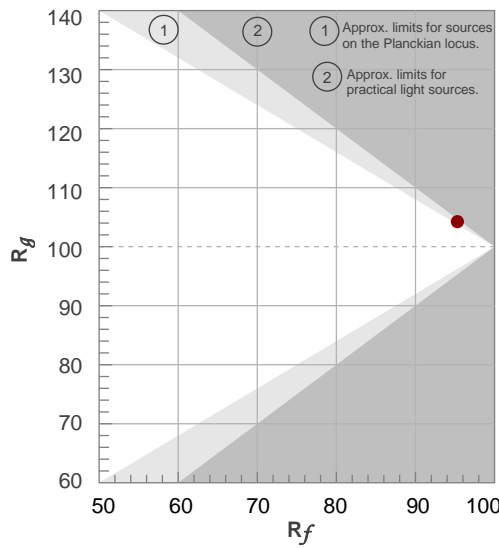
R_g 104.2
Gammut index R_g

TM30: 95.3

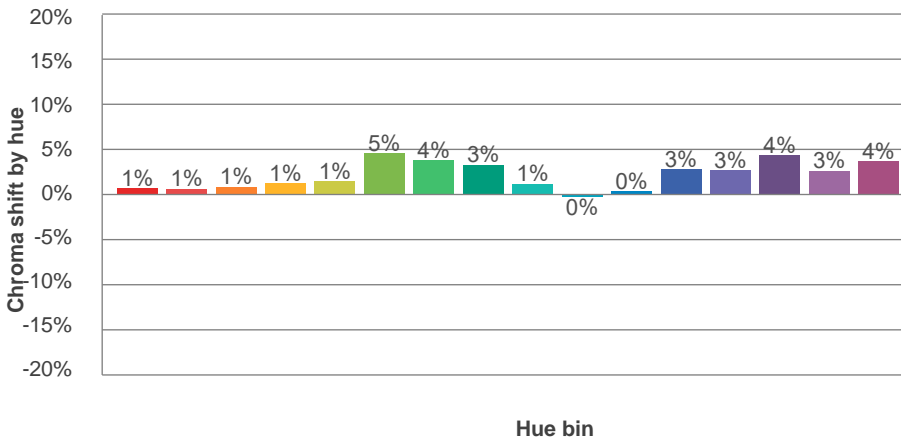
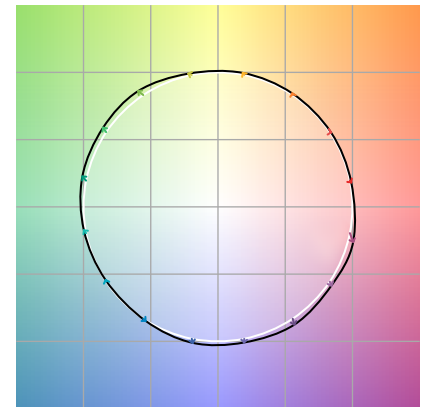
TM-30Color



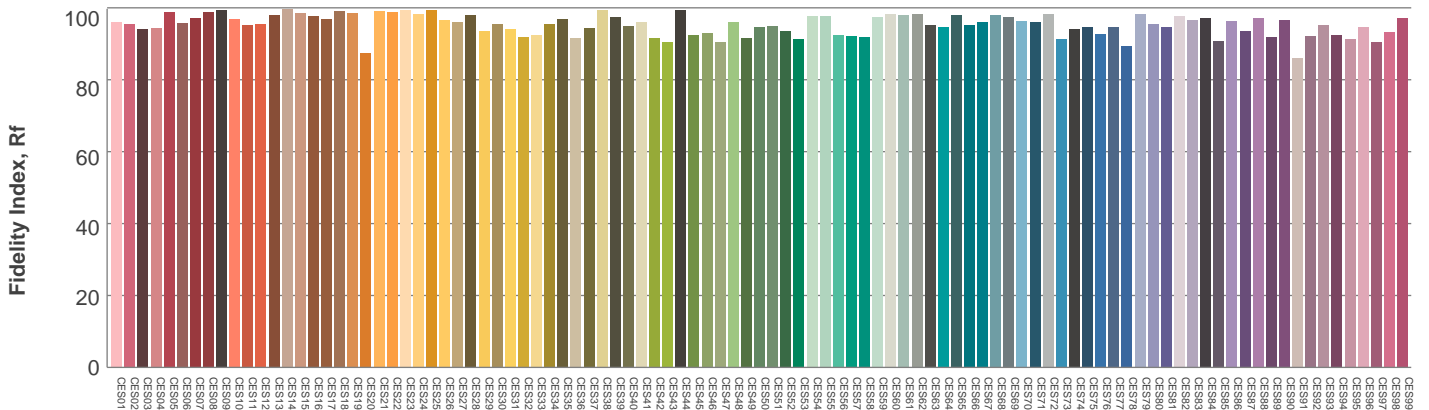
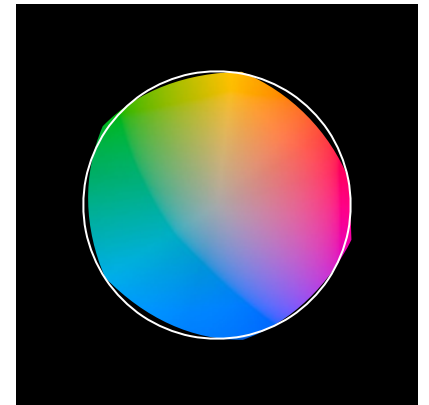
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	95	1%	2%
6	93	5%	1%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	94	3%	-2%
16	92	4%	-6%



Color vector graphics

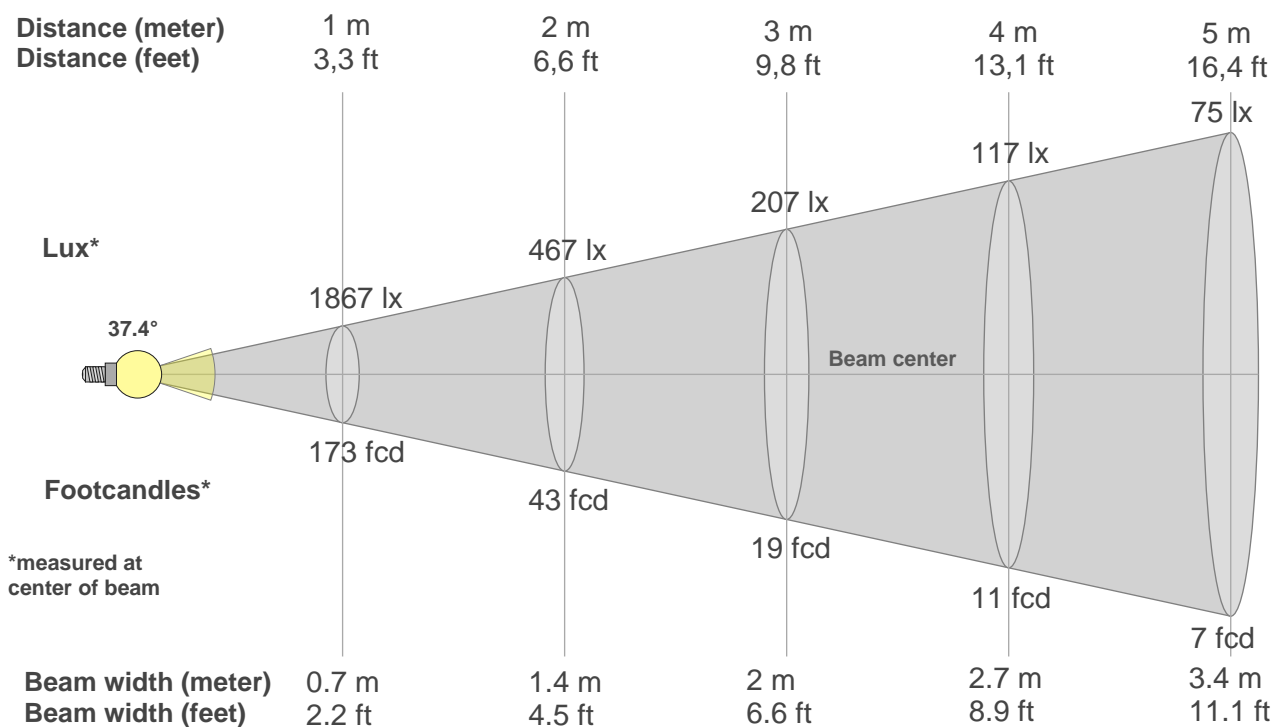


Color distortion



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
1867lx	467lx	207lx	117lx	75lx	52lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx
173.5fcd	43.4fcd	19.3fcd	10.8fcd	6.9fcd	4.8fcd	3.5fcd	2.7fcd	2.1fcd	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°
1867	1858	1822	1762	1680	1576	1454	1314	1157	988	821	661	514	381	266	177	117	80	55	37
100%	99%	98%	94%	90%	84%	78%	70%	62%	53%	44%	35%	28%	20%	14%	9%	6%	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°
1867	1857	1821	1761	1680	1578	1457	1318	1164	998	838	687	547	422	316	231	169	124	92	68
100%	99%	98%	94%	90%	85%	78%	71%	62%	53%	45%	37%	29%	23%	17%	12%	9%	7%	5%	4%

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°
1867	1856	1824	1771	1697	1598	1471	1322	1161	991	818	651	498	361	253	172	116	79	56	39
100%	99%	98%	95%	91%	86%	79%	71%	62%	53%	44%	35%	27%	19%	14%	9%	6%	4%	3%	2%

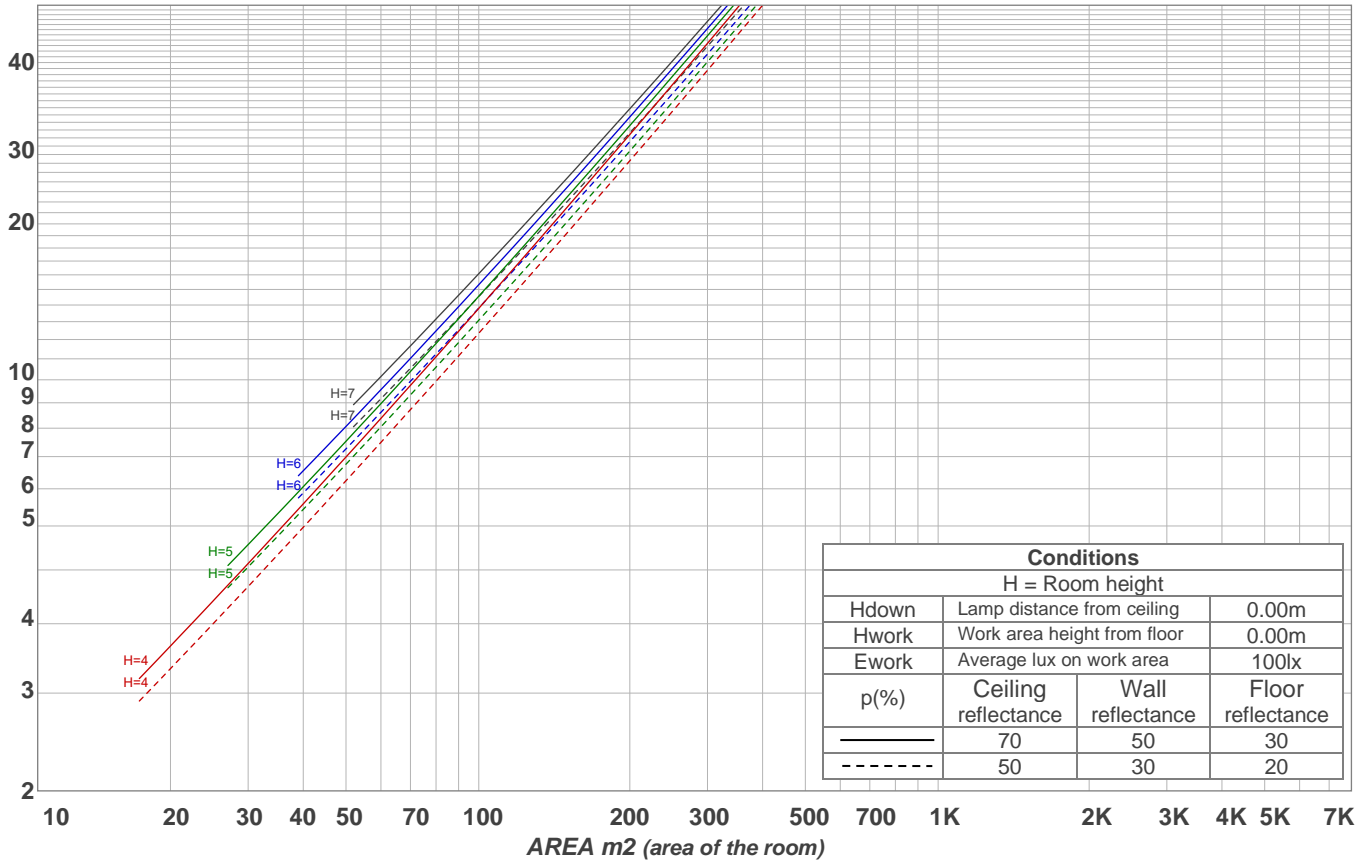
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1867	1855	1819	1761	1683	1583	1461	1319	1162	999	837	681	538	411	308	227	166	122	90	66
100%	99%	97%	94%	90%	85%	78%	71%	62%	54%	45%	36%	29%	22%	16%	12%	9%	7%	5%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37.4°	61°	77.4°	98.7%	97.4%

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	97	97	95	95	95	
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	90	
3	105	100	95	92	103	98	94	91	96	93	90	93	91	89	91	89	87	86	86	86	
4	101	95	90	86	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	71	86	78	74	70	77	73	70	76	73	70	76	72	70	68	68	68	
9	84	76	71	68	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	68	65	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°
165 lm	337 lm	211 lm	58.4 lm	15.0 lm	5.81 lm	4.23 lm	2.79 lm	2.83 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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