

Light efficiency:



Output: 793 lm

Light quality:

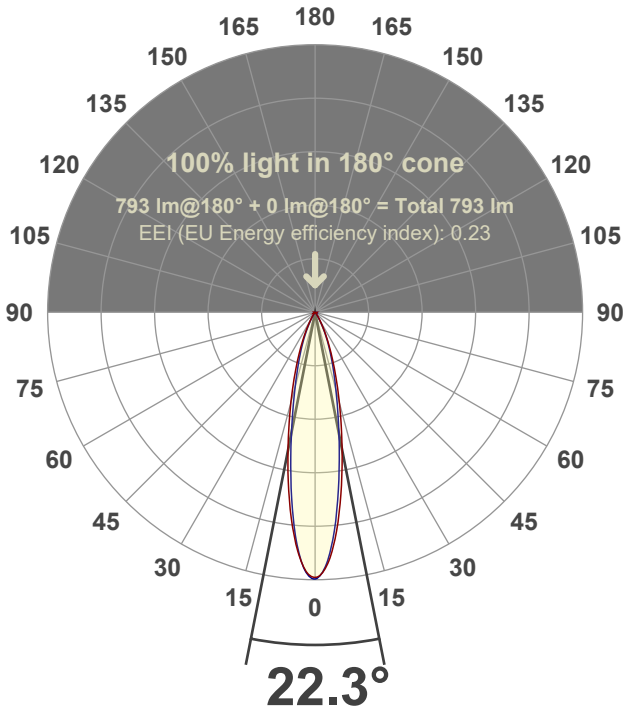


Peak: 3529 cd

Power: 14.6 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3019 15° Optic-Solite

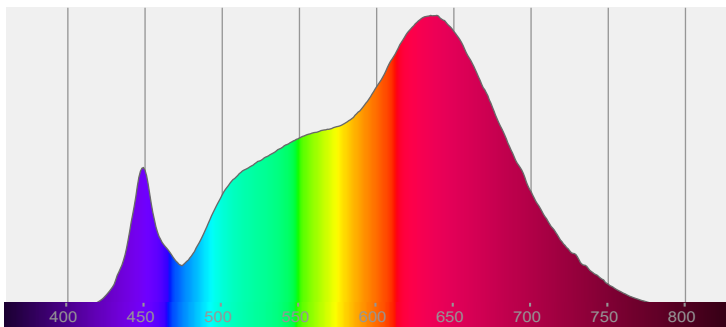
Date and time:

6/30/2022 12:59:14 PM

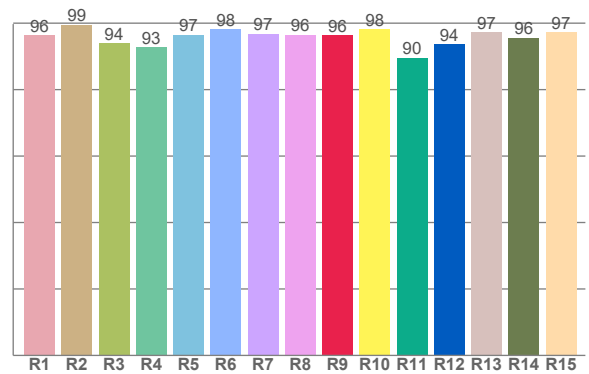
Delivered Lumens

793

Spectra



CRI: 96.3 (R1-R8)



Color parameters

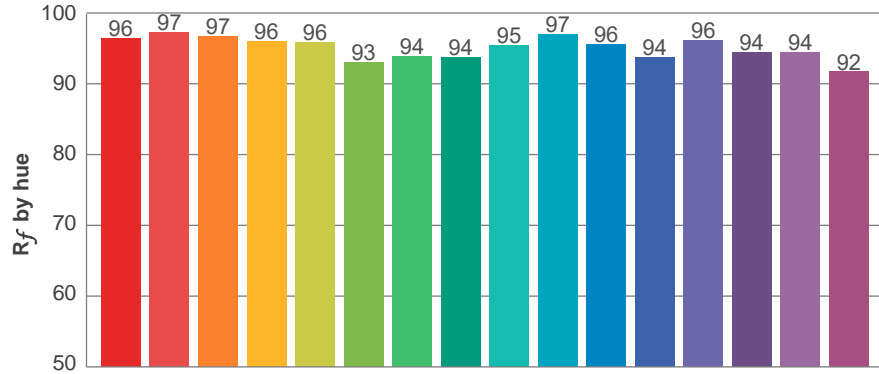
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
96.3	96.3	95.3	104.2	94.9	0.436	0.402	0.251	0.347	-0.0007

R_f 95.3
Fidelity index R_f

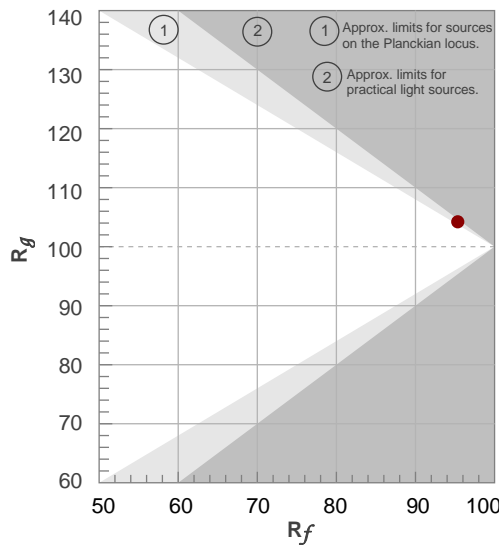
R_g 104.2
Gammut index R_g

TM30: 95.3

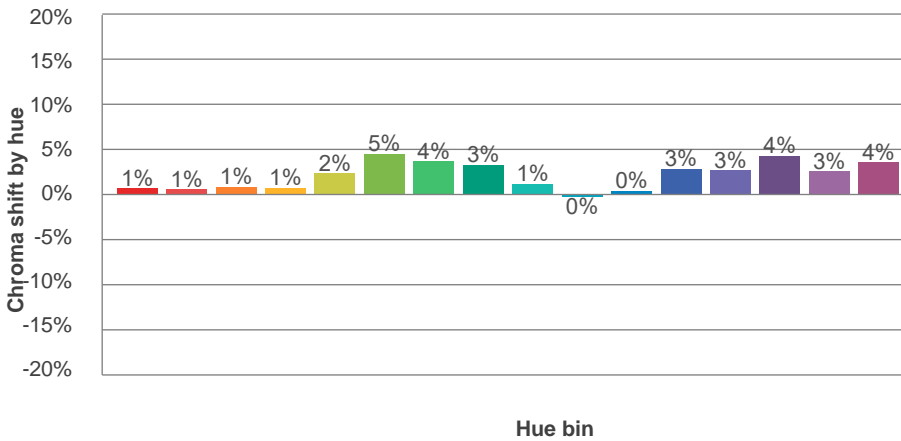
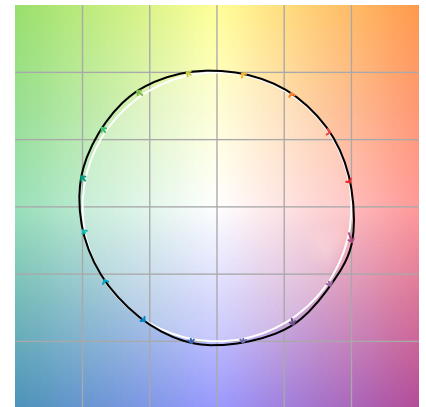
TM-30Color



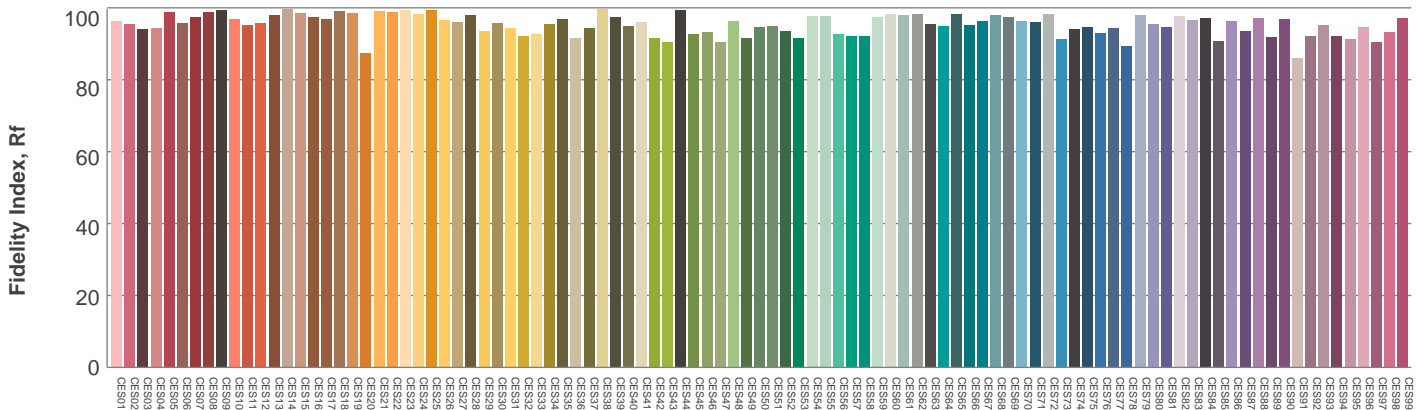
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	96	2%	3%
6	93	5%	1%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-2%
15	94	3%	-2%
16	92	4%	-6%



Color vector graphics

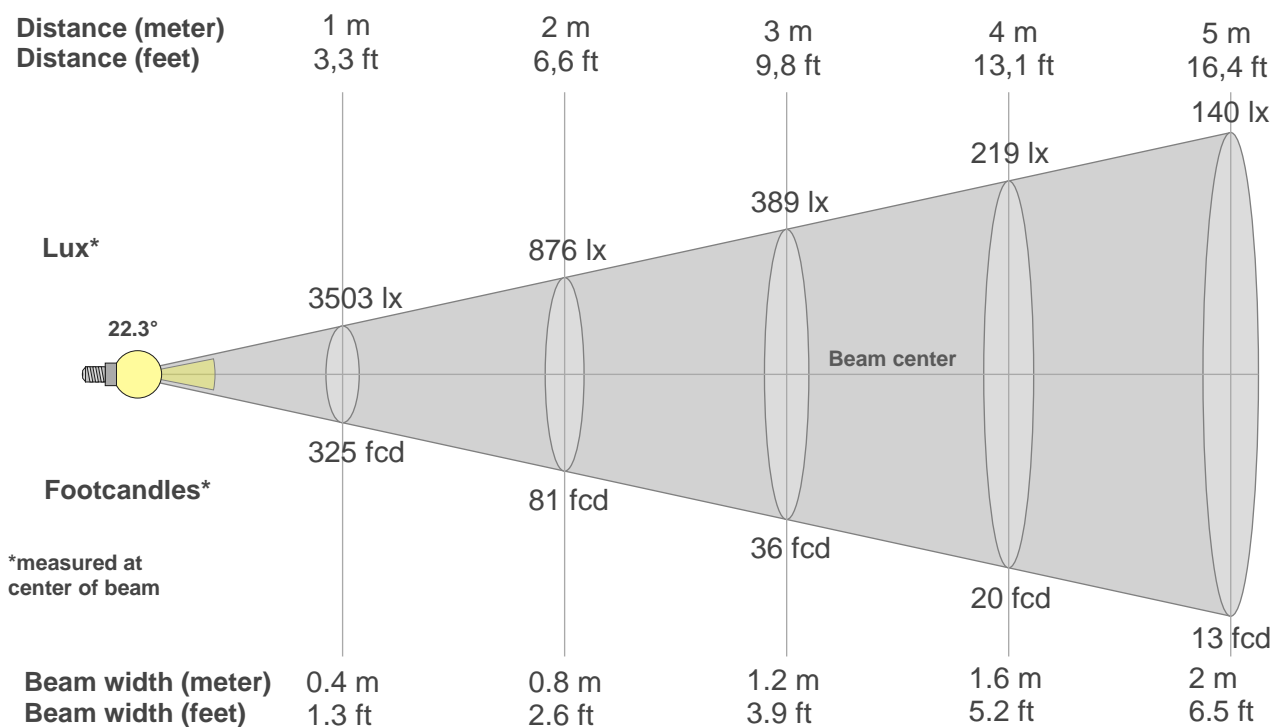


Color distortion



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
3503lx	876lx	389lx	219lx	140lx	97lx	71lx	55lx	43lx	35lx	29lx	24lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx
325.4fcd	81.4fcd	36.2fcd	20.3fcd	13fcd	9fcd	6.6fcd	5.1fcd	4fcd	3.3fcd	2.7fcd	2.3fcd	1.9fcd	1.7fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd

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°
3503	3393	3166	2836	2450	2067	1714	1399	1124	889	701	547	418	312	228	162	119	89	66	48
100%	97%	90%	81%	70%	59%	49%	40%	32%	25%	20%	16%	12%	9%	7%	5%	3%	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°
3503	3381	3087	2695	2263	1848	1497	1205	969	778	621	490	381	283	201	136	90	64	44	30
100%	97%	88%	77%	65%	53%	43%	34%	28%	22%	18%	14%	11%	8%	6%	4%	3%	2%	1%	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°
3503	3420	3190	2851	2472	2084	1715	1389	1117	887	695	535	402	295	216	157	114	83	61	47
100%	98%	91%	81%	71%	59%	49%	40%	32%	25%	20%	15%	11%	8%	6%	4%	3%	2%	2%	1%

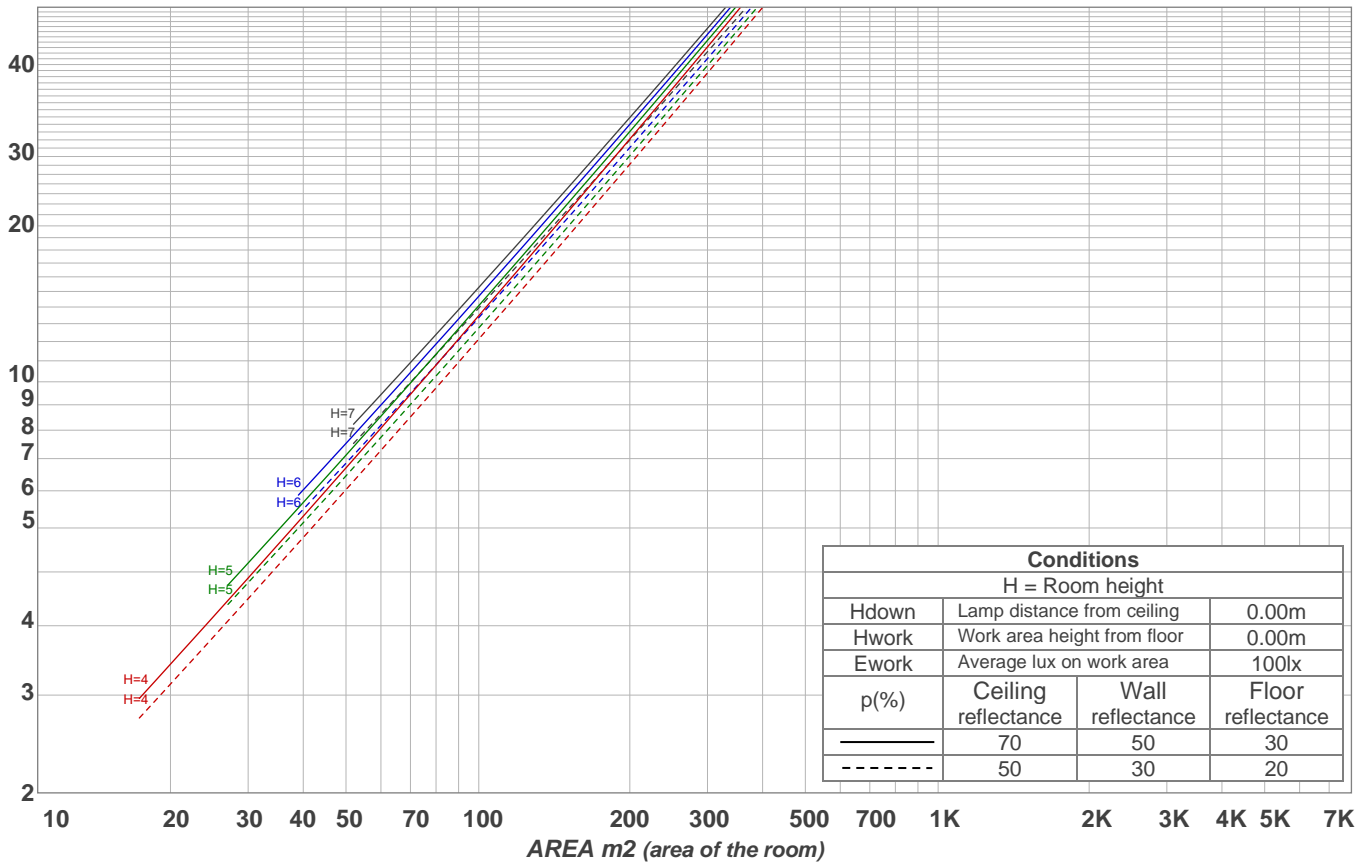
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3503	3429	3146	2749	2300	1858	1467	1163	921	728	572	444	335	242	168	113	76	53	38	27
100%	98%	90%	78%	66%	53%	42%	33%	26%	21%	16%	13%	10%	7%	5%	3%	2%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.3°	49.2°	65.5°	98.8%	97.7%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
250 lm	321 lm	155 lm	41.5 lm	11.2 lm	4.89 lm	3.65 lm	2.86 lm	2.72 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

www.graffitilighting.com As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.