

Light efficiency:



Output: 853 lm

Light quality:

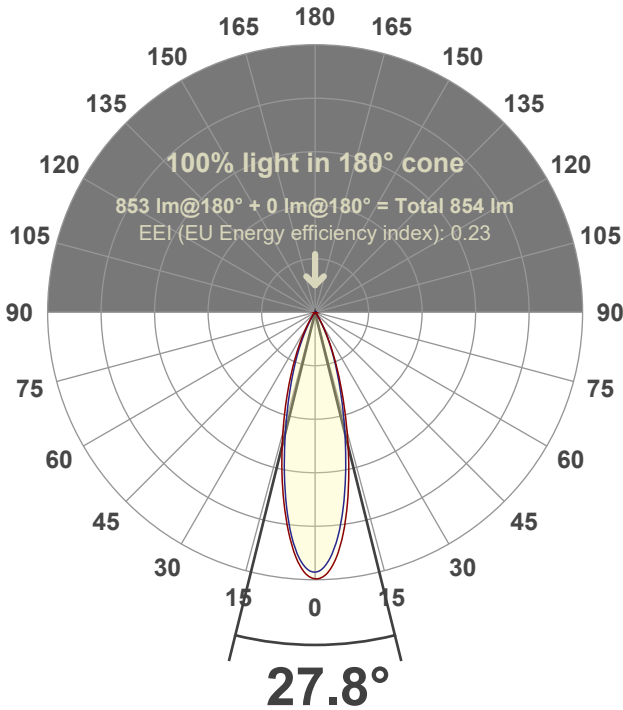


Peak: 2919 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-2722-NF-SQ-91A-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-2722 24° Optic-Solite

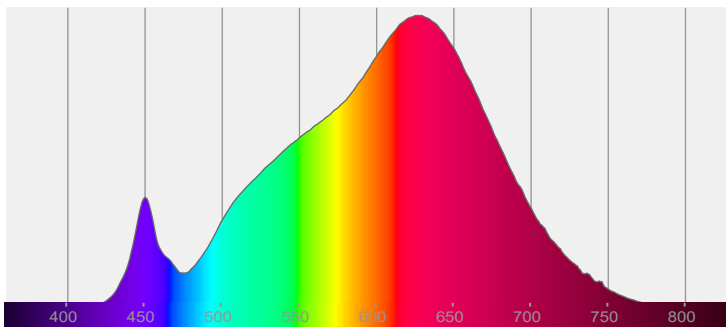
Date and time:

6/30/2022 5:57:43 PM

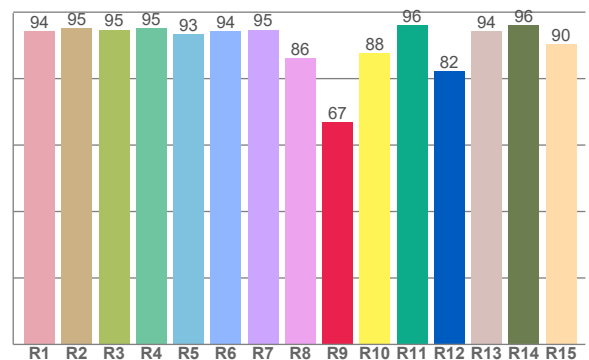
Delivered Lumens

853

Spectra



CRI: 93.5 (R1-R8)



Color parameters

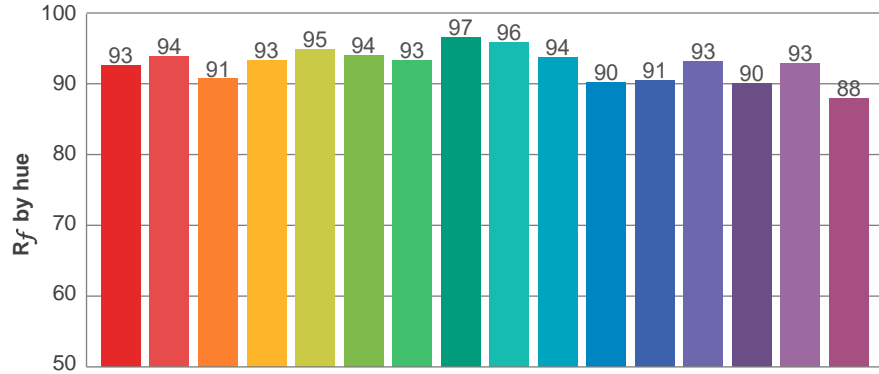
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
93.5	66.9	92.7	100.8	91.4	0.458	0.414	0.260	0.352	0.0013

R_f 92.7
Fidelity index R_f

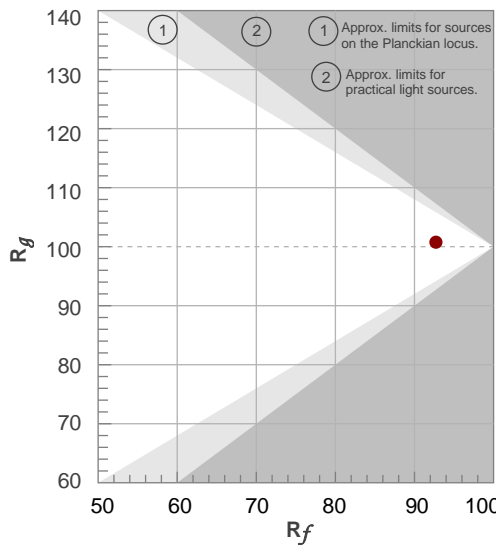
R_g 100.8
Gammut index R_g

TM30: 92.7

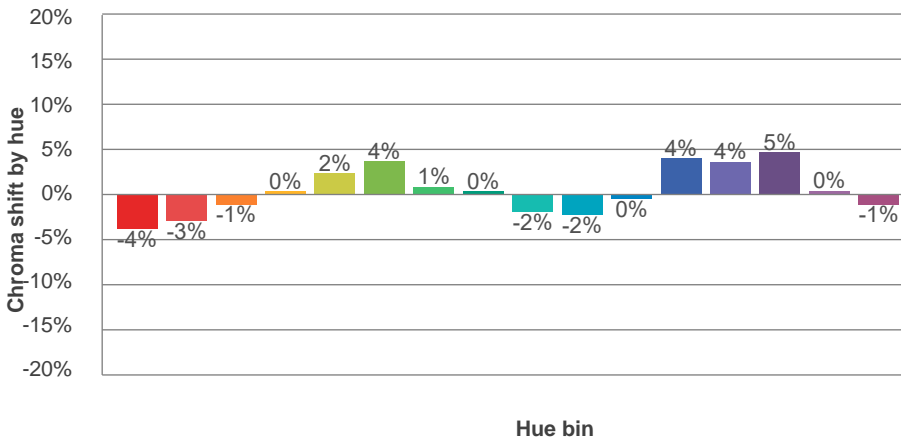
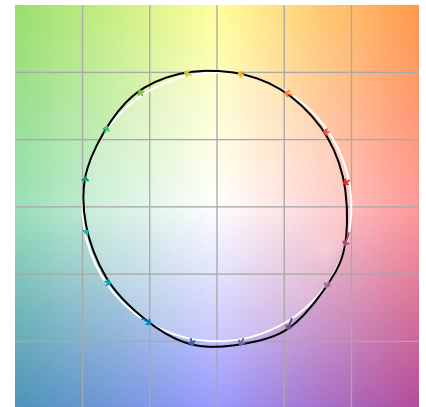
TM-30Color



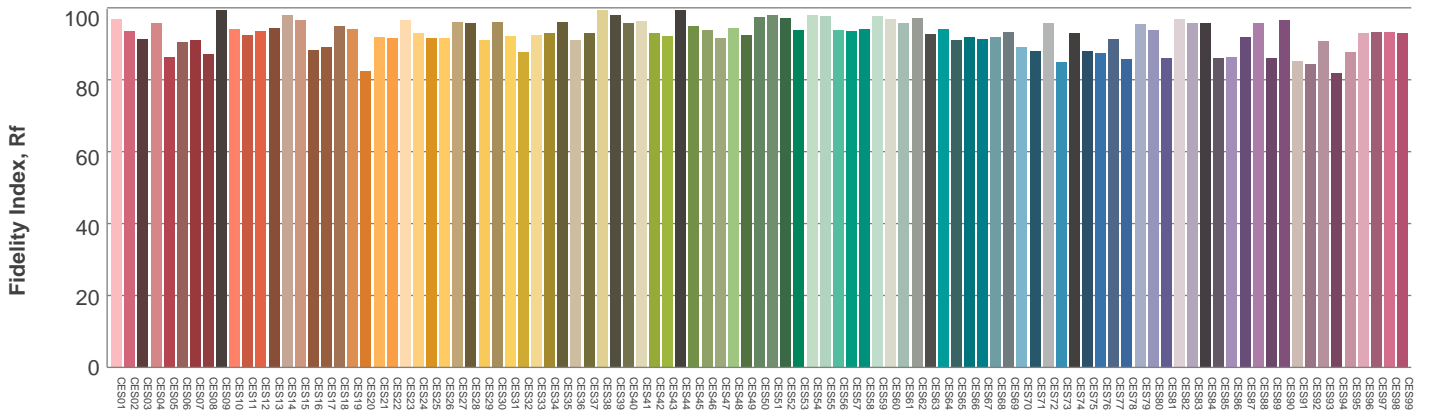
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	93	0%	3%
5	95	2%	4%
6	94	4%	0%
7	93	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	0%	7%
12	91	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



Color vector graphics

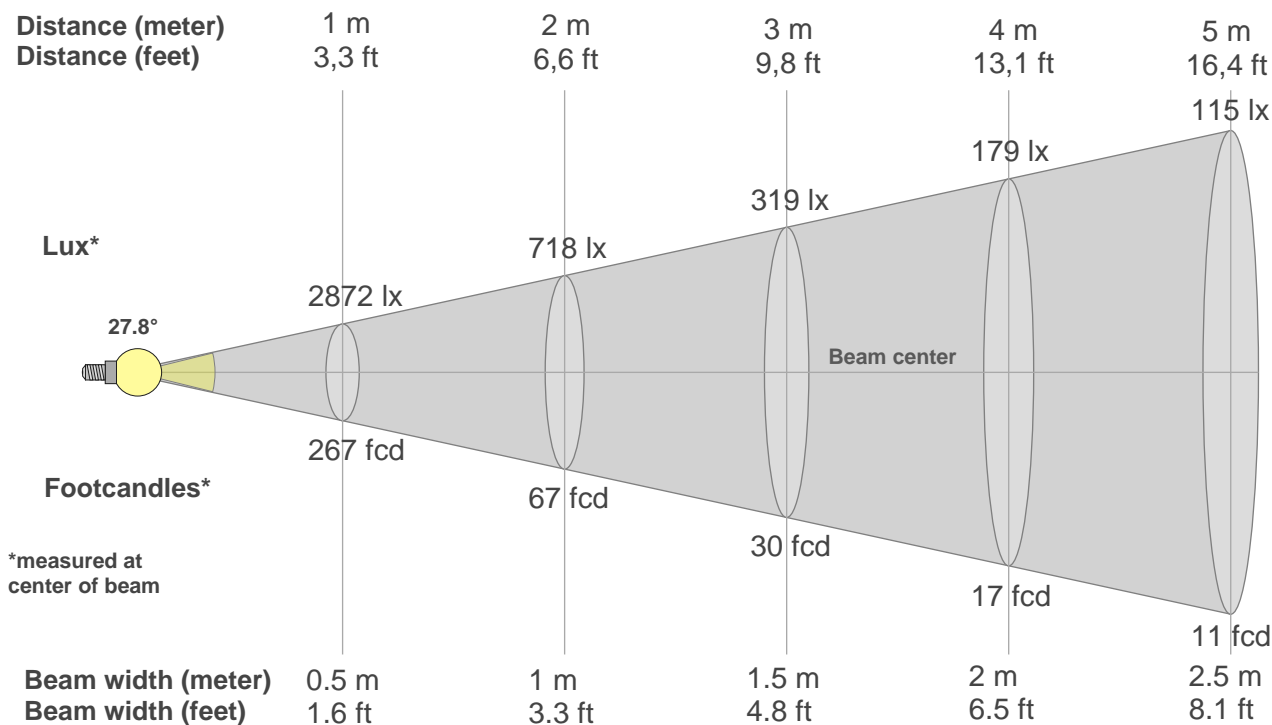


Color distortion



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
2872lx	718lx	319lx	179lx	115lx	80lx	59lx	45lx	35lx	29lx	24lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx
266.8fcd	66.7fcd	29.6fcd	16.7fcd	10.7fcd	7.4fcd	5.4fcd	4.2fcd	3.3fcd	2.7fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd

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°
2872	2878	2764	2580	2342	2068	1779	1498	1235	999	794	618	472	351	256	185	134	97	71	53
100%	100%	96%	90%	82%	72%	62%	52%	43%	35%	28%	22%	16%	12%	9%	6%	5%	3%	2%	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°
2872	2778	2645	2445	2188	1903	1619	1353	1112	899	717	568	438	324	228	152	101	70	49	35
100%	97%	92%	85%	76%	66%	56%	47%	39%	31%	25%	20%	15%	11%	8%	5%	4%	2%	2%	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°
2872	2864	2725	2523	2282	2021	1755	1493	1252	1034	840	671	524	399	297	217	157	114	83	62
100%	100%	95%	88%	79%	70%	61%	52%	44%	36%	29%	23%	18%	14%	10%	8%	5%	4%	3%	2%

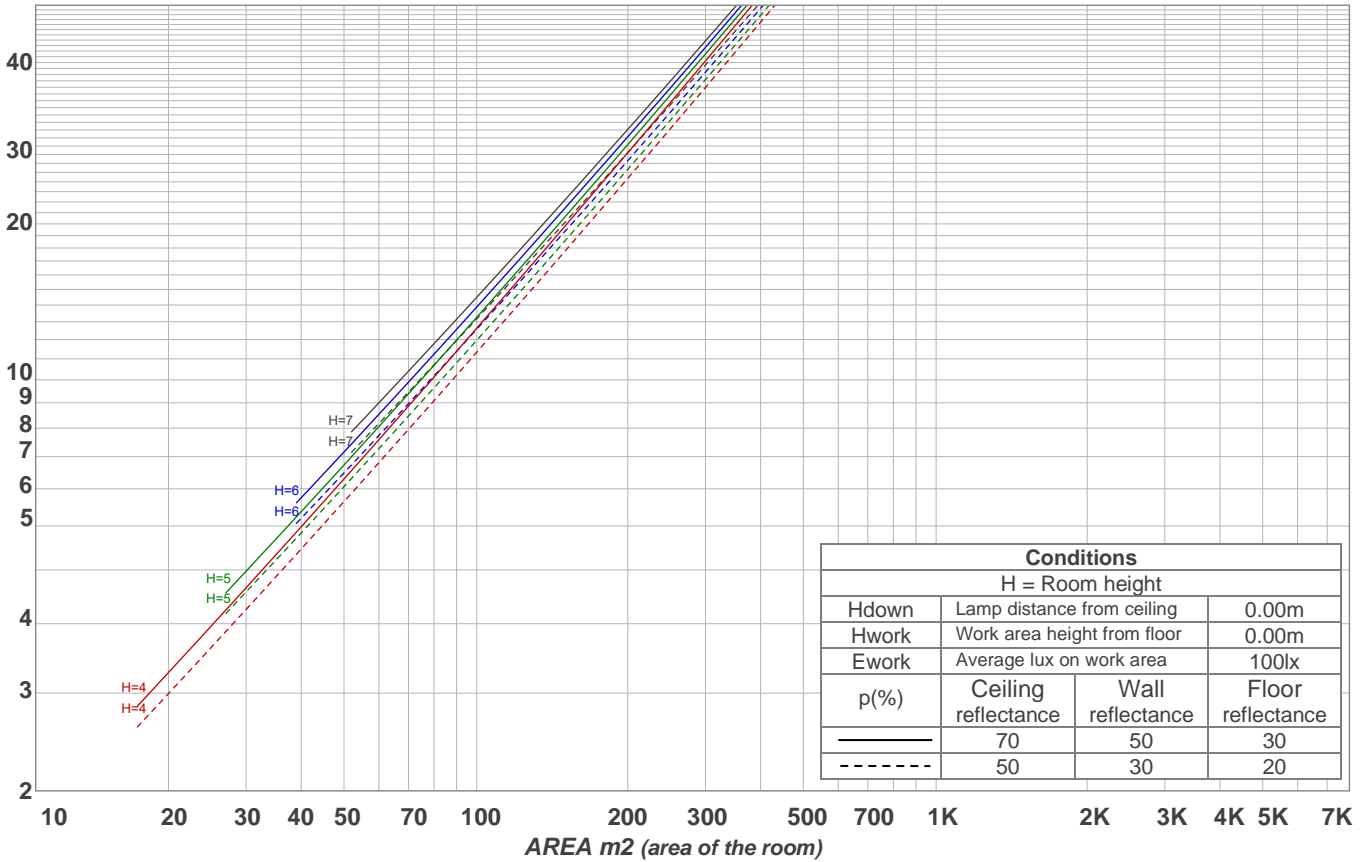
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2872	2791	2667	2465	2201	1915	1626	1352	1105	890	713	561	428	312	216	144	96	67	47	33
100%	97%	93%	86%	77%	67%	57%	47%	38%	31%	25%	20%	15%	11%	8%	5%	3%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.8°	54.3°	70.2°	98.7%	97.3%

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	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	
3	106	101	97	93	104	99	96	93	97	94	91	95	92	90	92	90	88	87	87	87	
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83	83	83	
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81	80	80	80	
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	83	81	78	77	77	77	
7	92	85	80	77	91	84	80	76	83	79	76	82	78	76	81	78	75	74	74	74	
8	89	81	77	74	88	81	77	73	80	76	73	79	76	73	78	75	73	72	72	72	
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69	69	69	
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
228 lm	356 lm	187 lm	50.3 lm	13.2 lm	7.70 lm	5.36 lm	2.79 lm	2.35 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