

Light efficiency:



Output: 630 lm

Light quality:

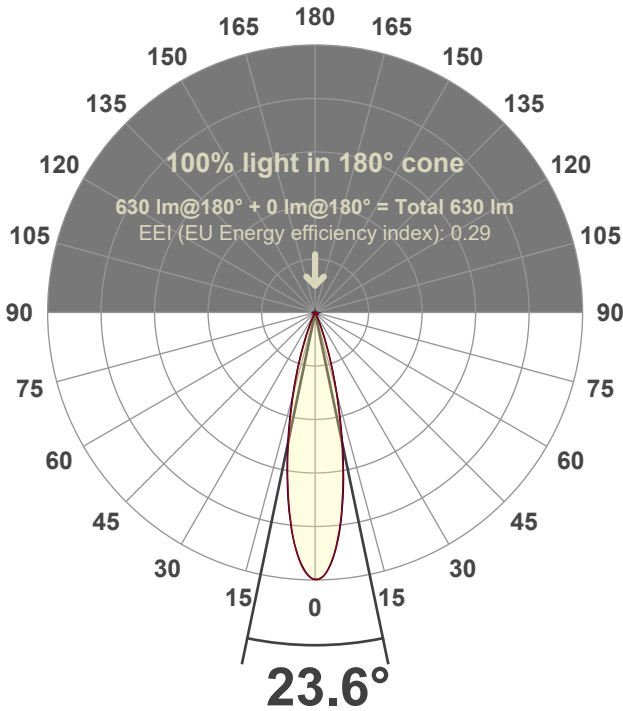


Peak: 3377 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-3022-NF-SQ-91A-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3022 24° Optic-Solite

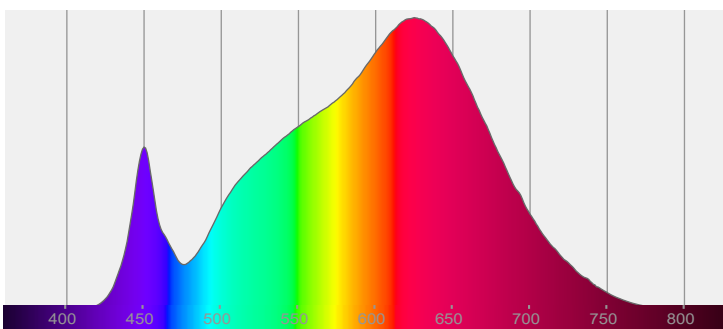
Date and time:

6/30/2022 4:17:08 PM

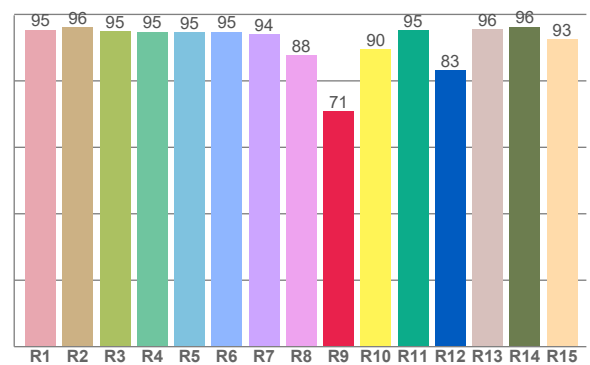
Delivered Lumens

630

Spectra



CRI: 94.0 (R1-R8)



Color parameters

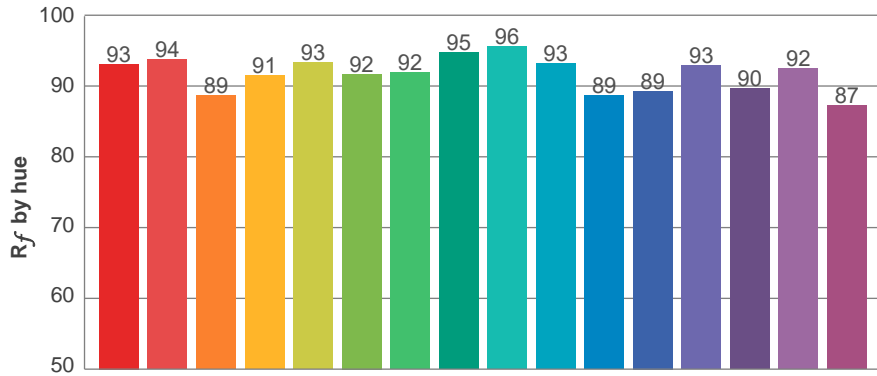
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.0	70.8	91.8	102.4	91.0	0.436	0.400	0.252	0.346	-0.0017

R_f 91.8
Fidelity index R_f

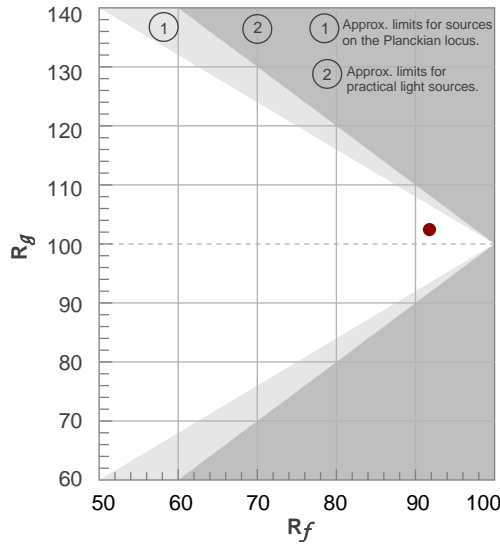
R_g 102.4
Gammut index R_g

TM30: 91.8

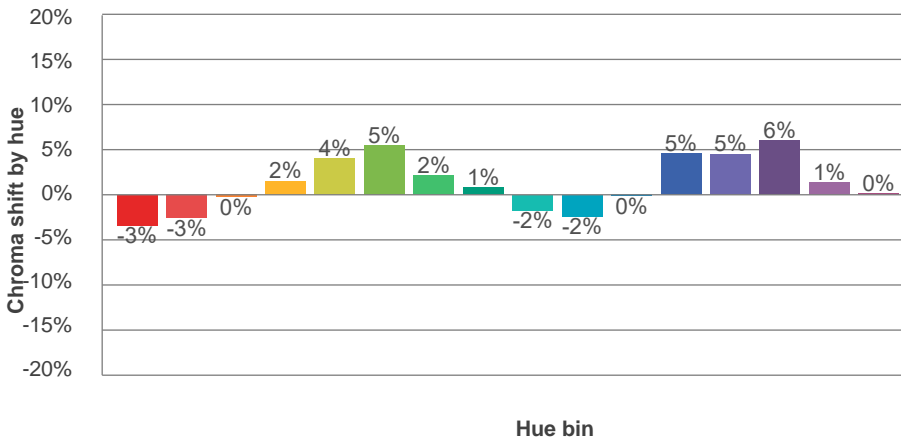
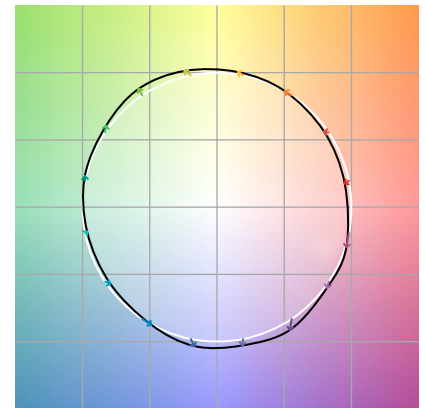
TM-30Color



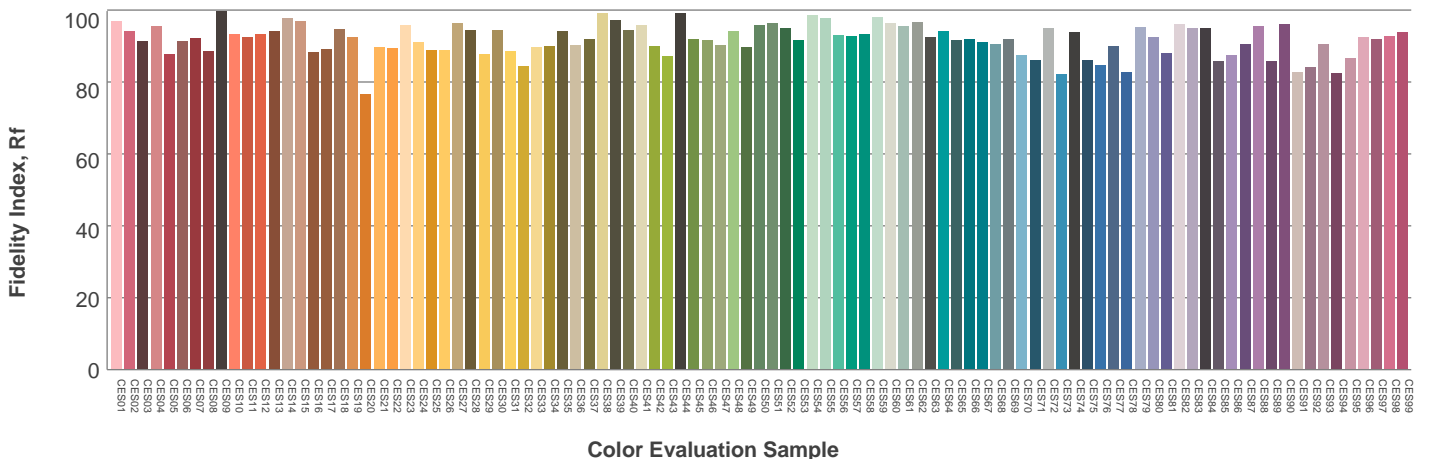
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	5%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	92	1%	-4%
16	87	0%	-10%



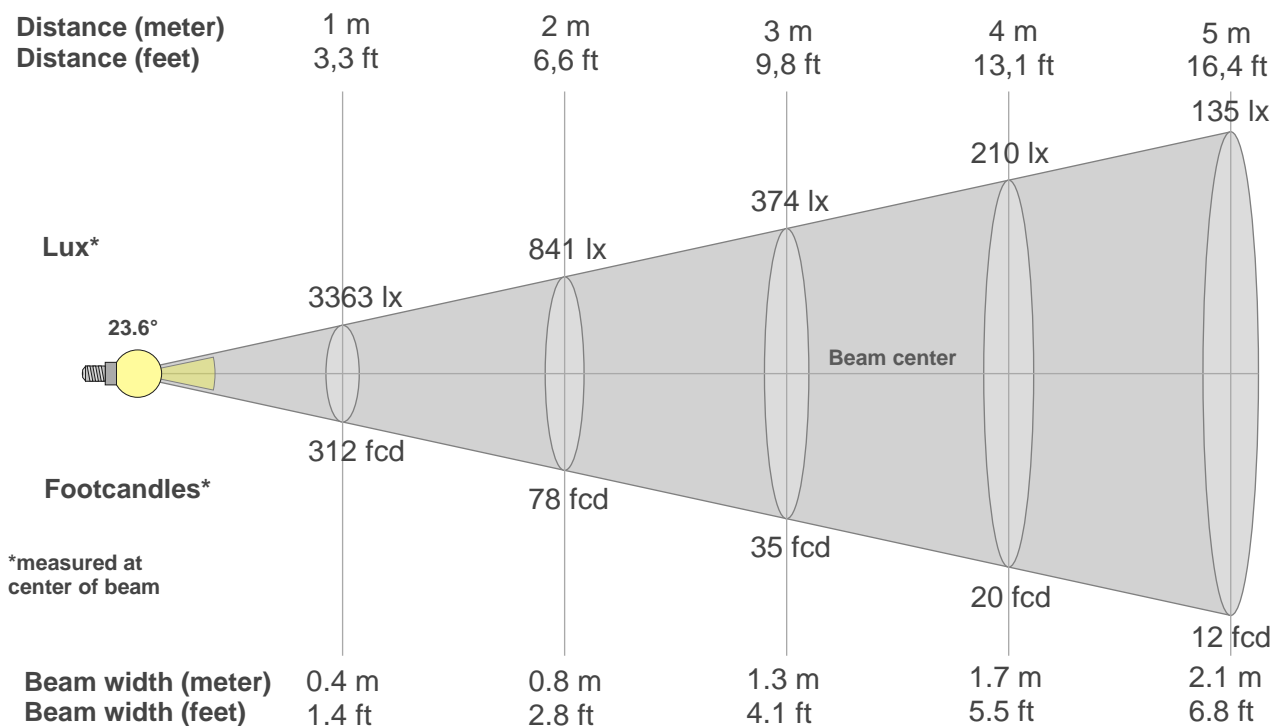
Color vector graphics



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
3363lx	841lx	374lx	210lx	135lx	93lx	69lx	53lx	42lx	34lx	28lx	23lx	20lx	17lx	15lx	13lx	12lx	10lx	9lx	8lx
312.4fcd	78.1fcd	34.7fcd	19.5fcd	12.5fcd	8.7fcd	6.4fcd	4.9fcd	3.9fcd	3.1fcd	2.6fcd	2.2fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	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°
3363	3332	3123	2824	2454	2041	1619	1227	887	603	377	212	113	63	37	23	17	14	11	8
100%	99%	93%	84%	73%	61%	48%	36%	26%	18%	11%	6%	3%	2%	1%	1%	1%	0%	0%	0%

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°
3363	3317	3136	2843	2480	2077	1660	1258	915	627	400	236	132	77	44	27	18	13	10	8
100%	99%	93%	85%	74%	62%	49%	37%	27%	19%	12%	7%	4%	2%	1%	1%	1%	0%	0%	0%

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°
3363	3281	3082	2785	2414	2016	1621	1255	925	637	403	243	138	74	40	23	17	13	10	8
100%	98%	92%	83%	72%	60%	48%	37%	28%	19%	12%	7%	4%	2%	1%	1%	0%	0%	0%	0%

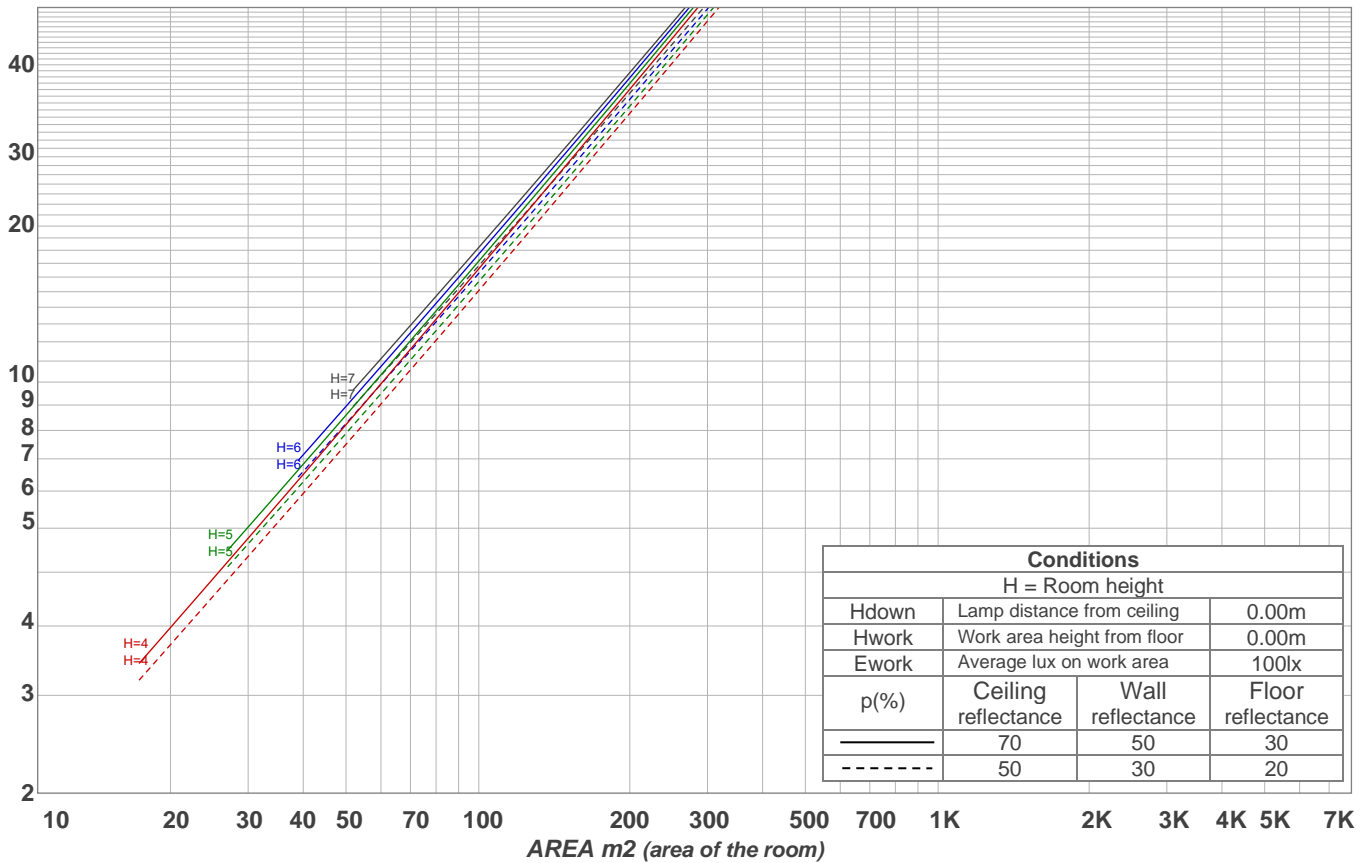
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3363	3271	3076	2794	2437	2046	1661	1296	964	679	454	286	170	98	55	32	21	15	11	9
100%	97%	91%	83%	72%	61%	49%	39%	29%	20%	14%	9%	5%	3%	2%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.6°	41.6°	51.5°	98.5%	98.0%

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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	98	96	96	
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	95	94	93	
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	94	92	92	91	90	
4	105	100	96	93	103	99	95	93	97	94	92	95	92	90	93	91	90	89	88	87	
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86	85	84	
6	100	94	90	87	98	93	89	87	92	88	86	90	88	85	89	87	85	84	83	82	
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	81	80	
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80	79	78	
9	93	86	82	80	92	86	82	80	85	82	80	84	81	79	84	81	79	78	77	77	
10	90	84	80	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77	76	75	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
253 lm	295 lm	59.4 lm	7.99 lm	3.14 lm	2.42 lm	3.03 lm	3.11 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