

Light efficiency:



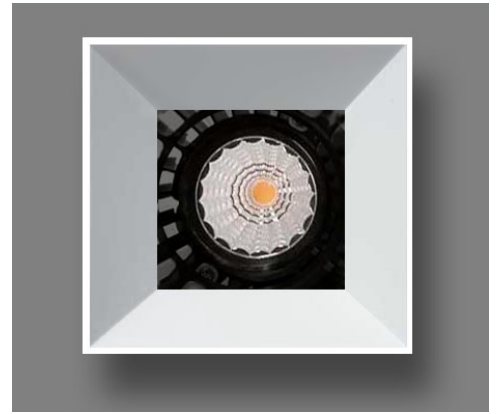
Output: 888 lm

Light quality:

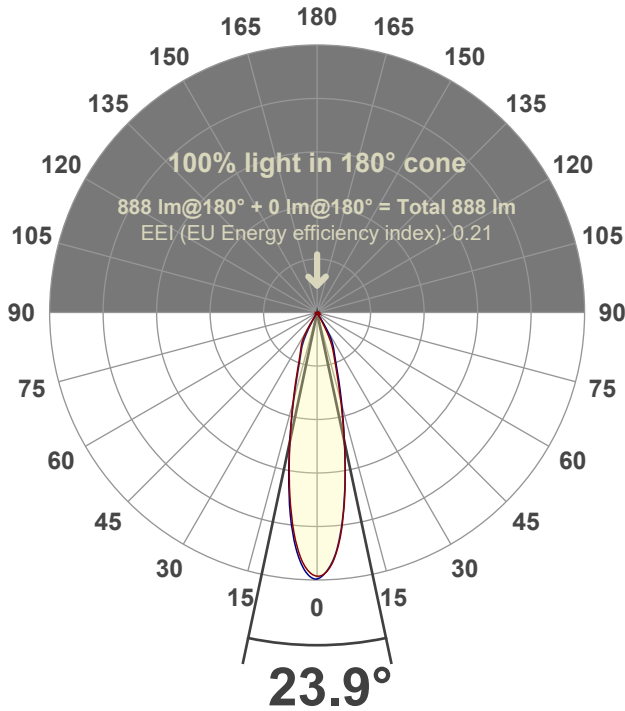


Peak: 3670 cd

Power: 14.6 W



Beam angle



Test number:

GR-O-F-A14-3019-NF-SQ-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-A14-3019 24° Optic

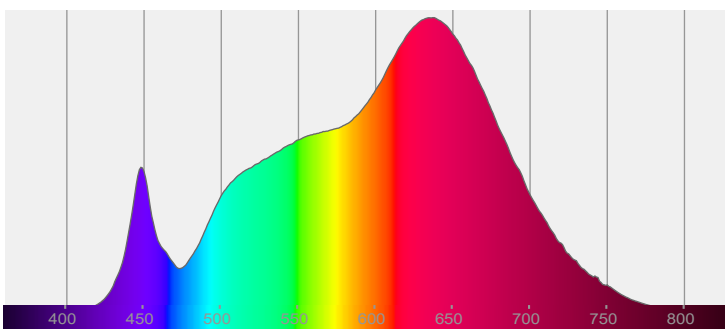
Date and time:

6/30/2022 12:05:38 PM

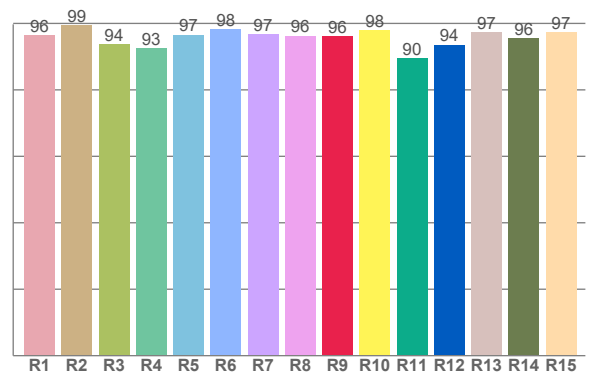
Delivered Lumens

888

Spectra



CRI: 96.3 (R1-R8)



Color parameters

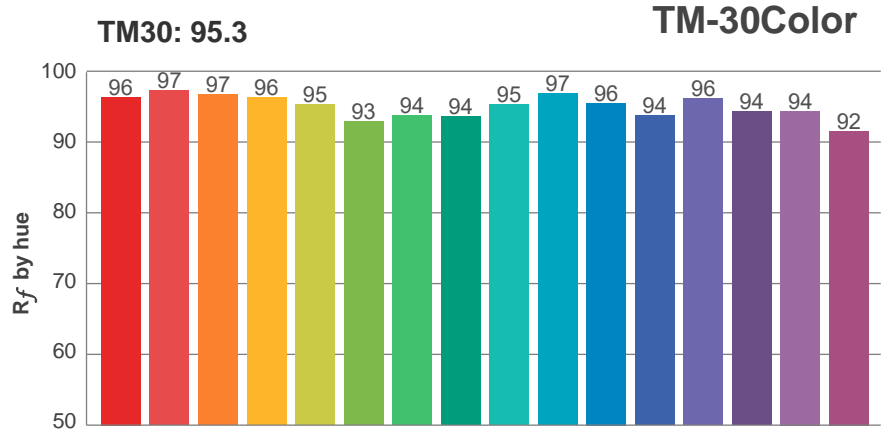
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.3	96.0	95.3	104.2	94.9	0.436	0.402	0.251	0.347	-0.0006

R_f 95.3

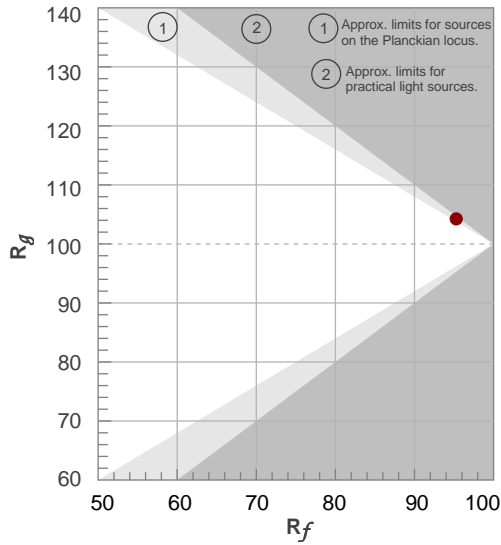
Fidelity index R_f

R_g 104.2

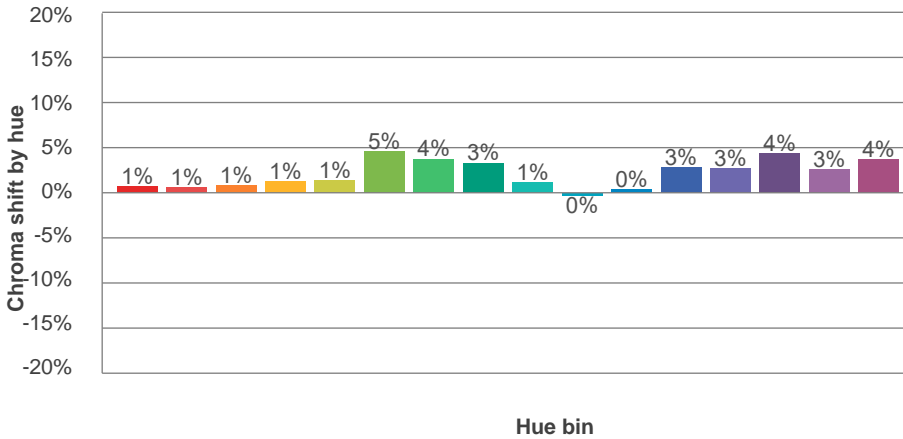
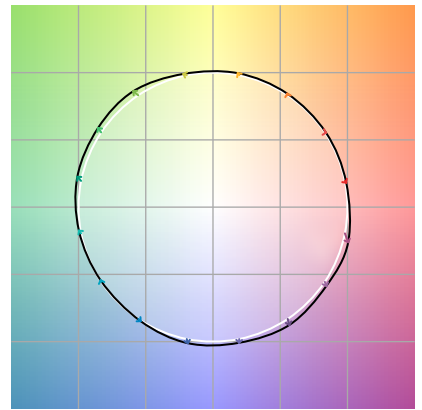
Gammut index R_g



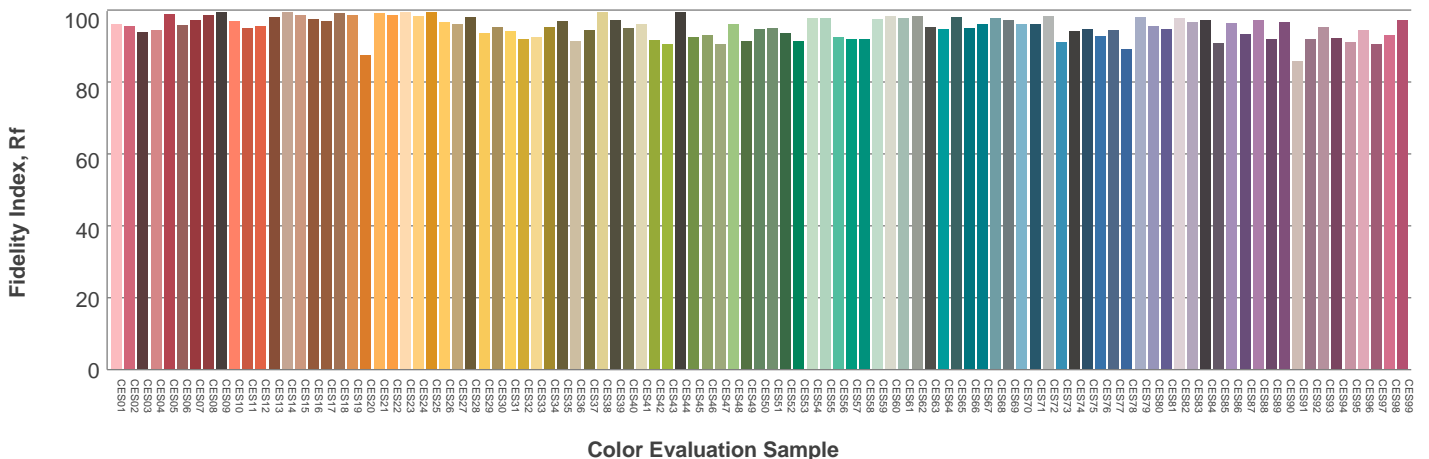
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	95	1%	2%
6	93	5%	1%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	94	3%	-2%
16	92	4%	-6%



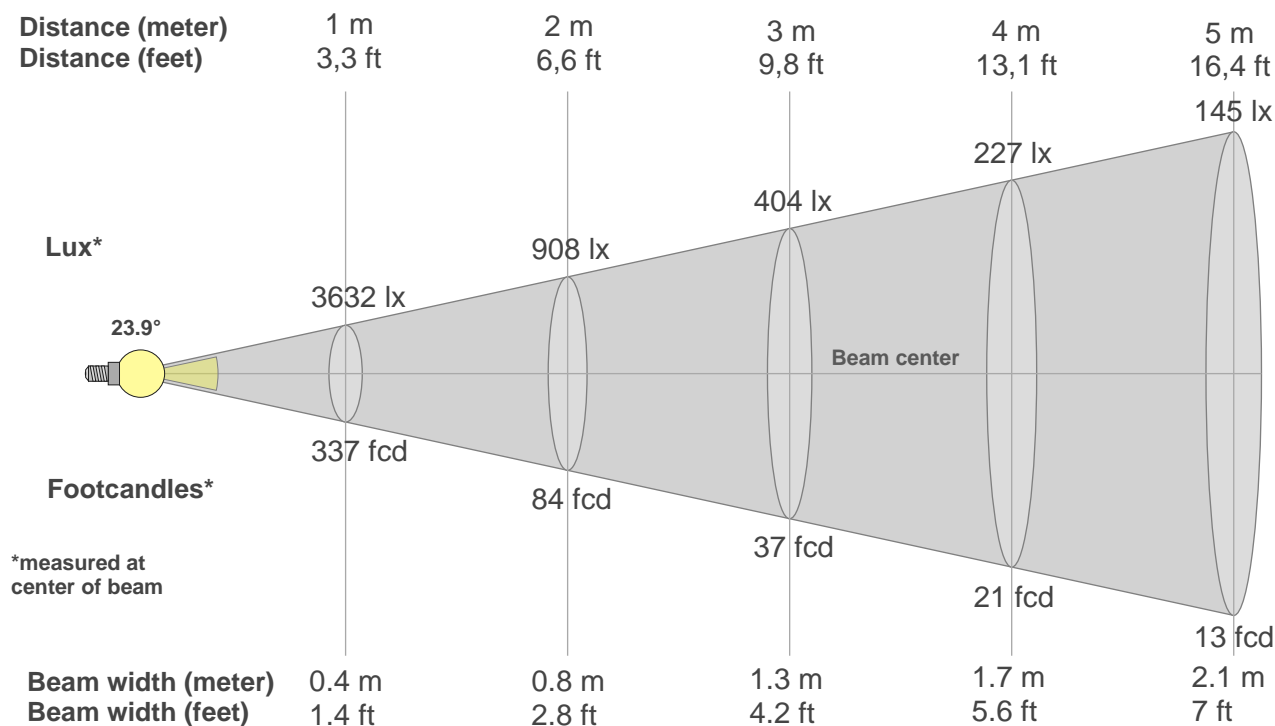
Color vector graphics



Color distortion



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
3632lx	908lx	404lx	227lx	145lx	101lx	74lx	57lx	45lx	36lx	30lx	25lx	21lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx
337.4fcd	84.4fcd	37.5fcd	21.1fcd	13.5fcd	9.4fcd	6.9fcd	5.3fcd	4.2fcd	3.4fcd	2.8fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	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°
3632	3558	3387	3087	2678	2238	1813	1438	1129	896	732	612	506	386	230	87	28	10	8	7
100%	98%	93%	85%	74%	62%	50%	40%	31%	25%	20%	17%	14%	11%	6%	2%	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°
3632	3568	3363	3048	2657	2231	1818	1471	1196	969	790	661	574	499	407	276	132	26	10	6
100%	98%	93%	84%	73%	61%	50%	41%	33%	27%	22%	18%	16%	14%	11%	8%	4%	1%	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°
3632	3537	3352	3049	2646	2220	1813	1452	1153	922	757	641	559	492	420	295	148	51	11	8
100%	97%	92%	84%	73%	61%	50%	40%	32%	25%	21%	18%	15%	14%	12%	8%	4%	1%	0%	0%

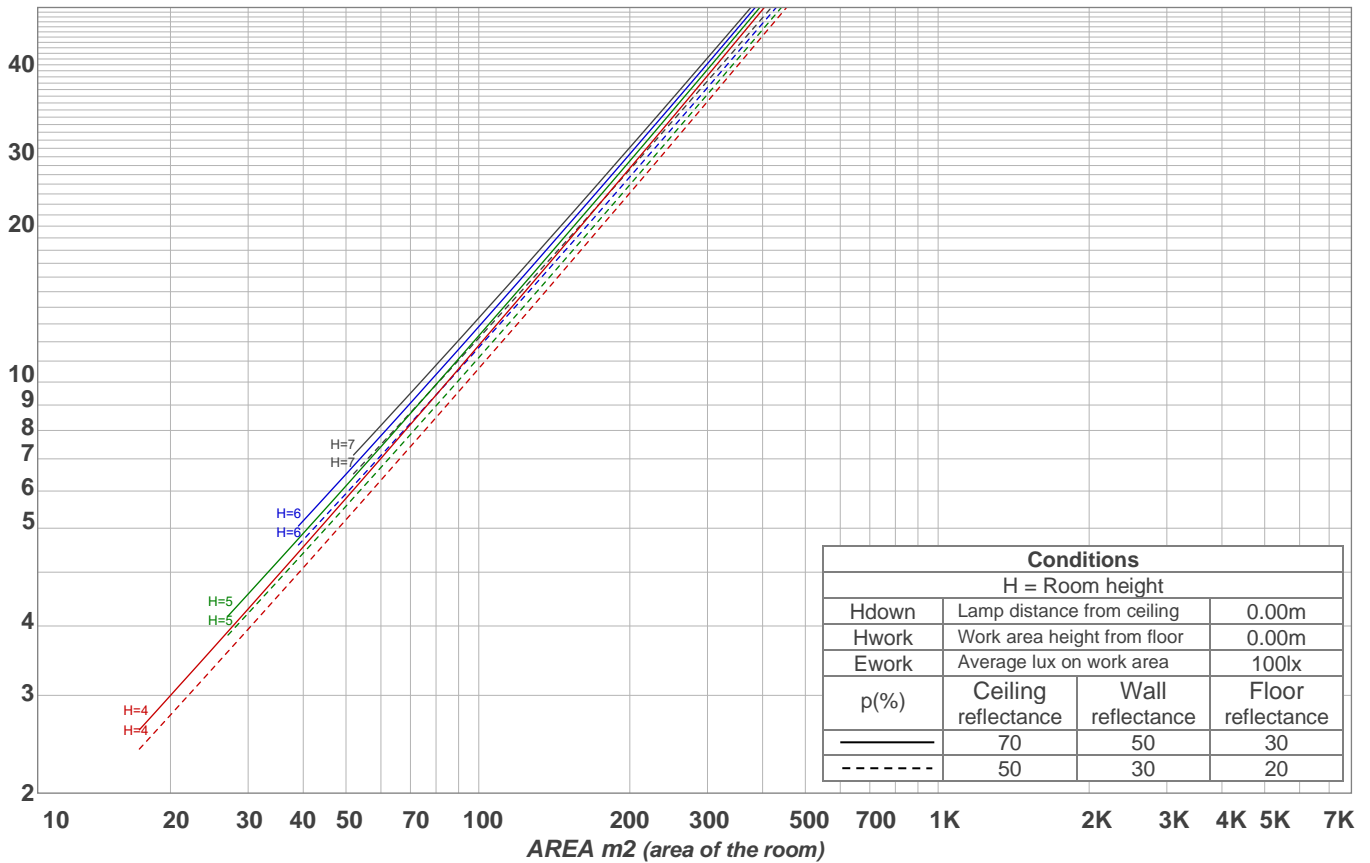
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3632	3591	3399	3100	2711	2256	1813	1430	1116	874	703	596	510	398	262	123	22	13	10	8
100%	99%	94%	85%	75%	62%	50%	39%	31%	24%	19%	16%	14%	11%	7%	3%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.9°	55.3°	63°	99.2%	98.8%

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	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96	96	96	
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89	89	89	
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86	86	86	
5	100	94	90	86	99	93	89	86	91	88	85	90	87	85	88	86	84	83	83	83	
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80	80	80	
7	94	87	83	80	93	87	82	80	85	82	79	84	81	79	83	81	78	77	77	77	
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76	75	75	75	
9	89	82	77	74	88	81	77	74	80	77	74	80	76	74	79	76	74	73	73	73	
10	86	79	75	72	85	79	75	72	78	74	72	77	74	72	77	74	71	70	70	70	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
276 lm	361 lm	216 lm	23.8 lm	2.28 lm	2.07 lm	2.13 lm	2.40 lm	2.39 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