

Light efficiency:



Output: 704 lm

Light quality:

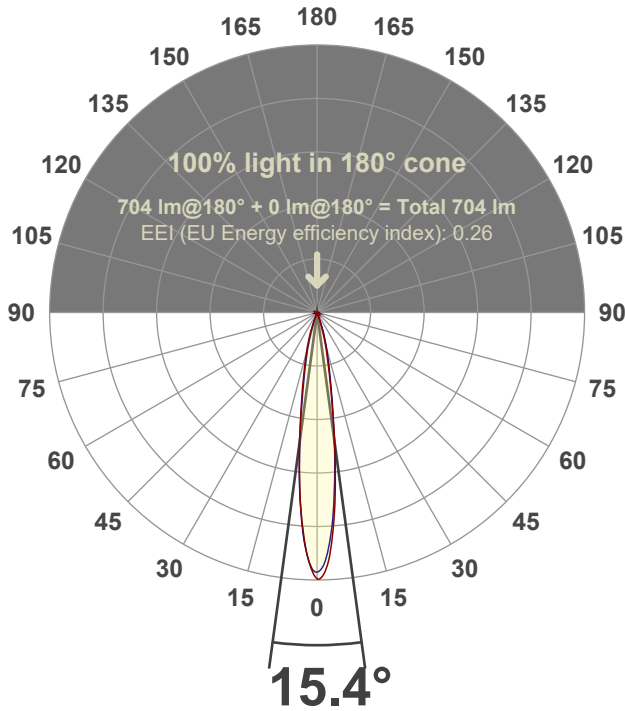


Peak: 7160 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-SP-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-2722 15° Optic

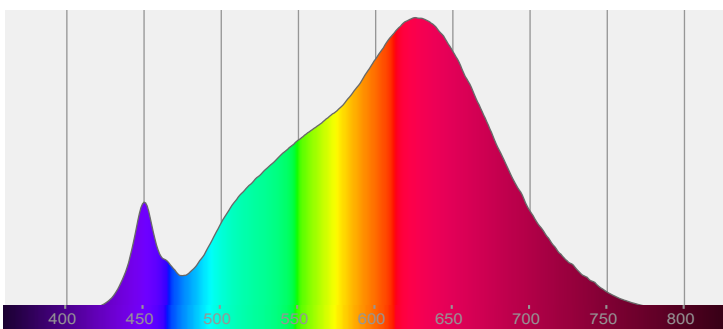
Date and time:

6/30/2022 5:39:17 PM

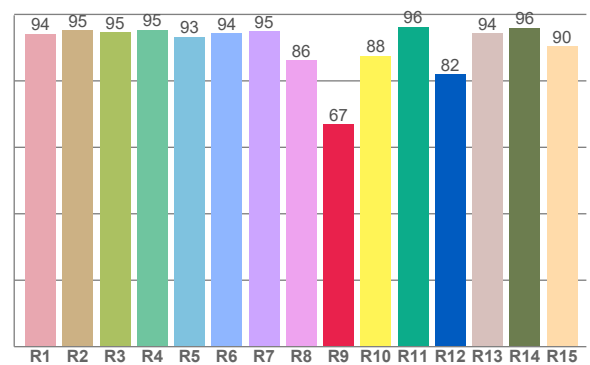
Delivered Lumens

704

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 deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.5	66.9	92.9	100.6	91.5	0.458	0.415	0.260	0.352	0.0016

R_f 92.9

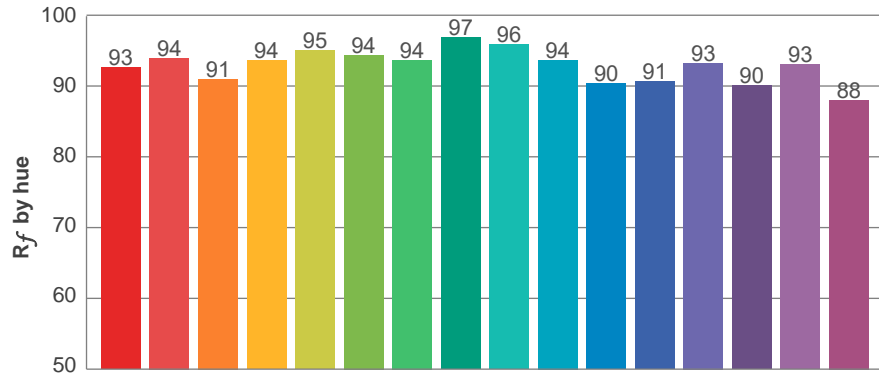
Fidelity index R_f

R_g 100.6

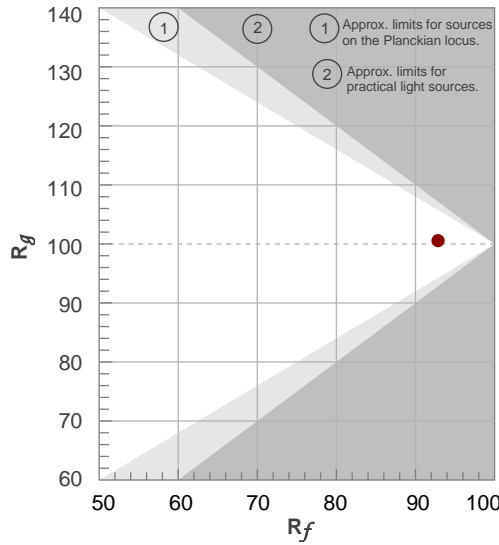
Gammut index R_g

TM30: 92.9

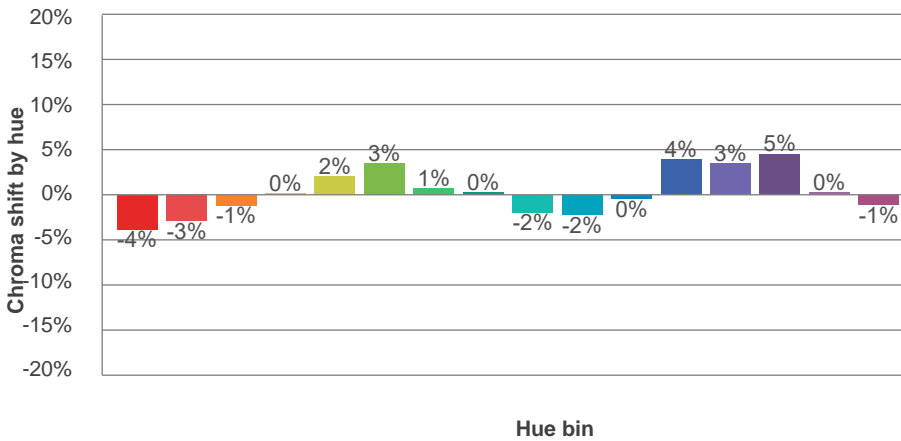
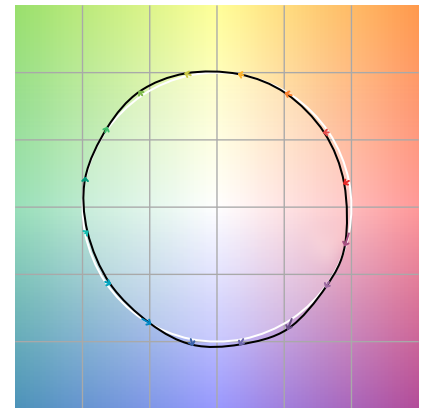
TM-30Color



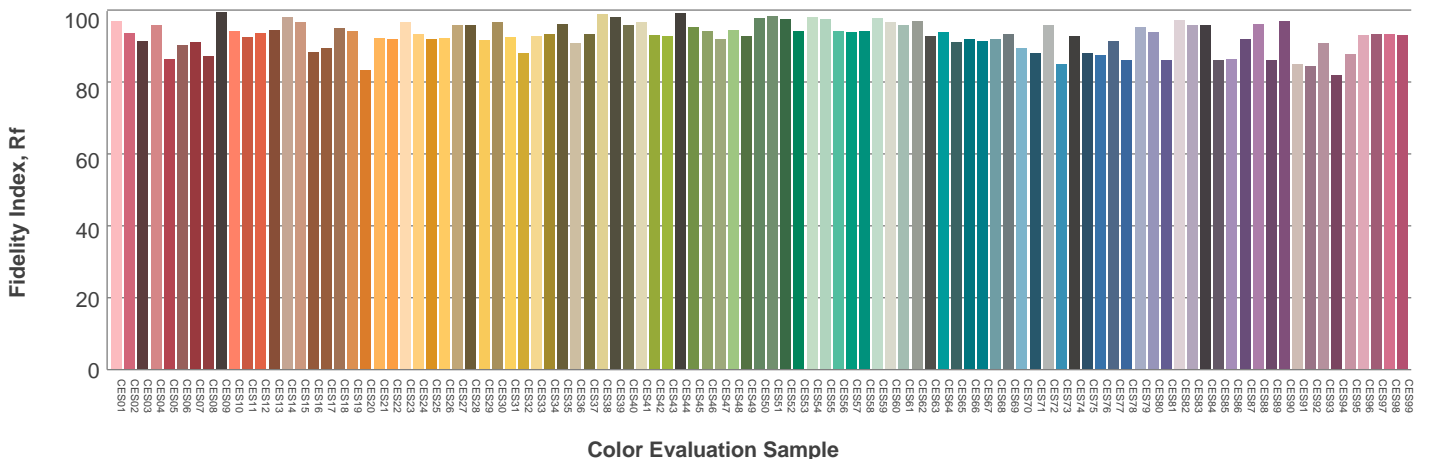
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	4%
4	94	0%	3%
5	95	2%	4%
6	94	3%	0%
7	94	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	0%	7%
12	91	4%	2%
13	93	3%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



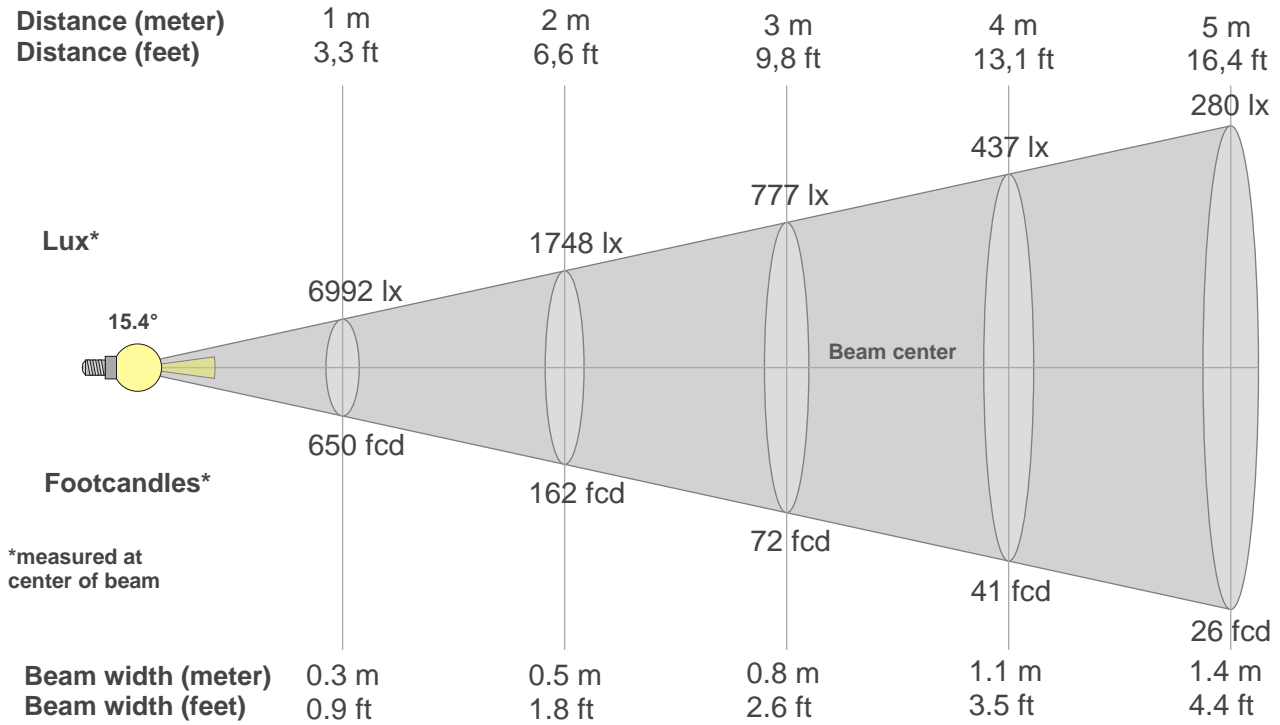
Color vector graphics



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
6992lx	1748lx	777lx	437lx	280lx	194lx	143lx	109lx	86lx	70lx	58lx	49lx	41lx	36lx	31lx	27lx	24lx	22lx	19lx	17lx
649.6fcd	162.4fcd	72.2fcd	40.6fcd	26fcd	18fcd	13.3fcd	10.1fcd	8fcd	6.5fcd	5.4fcd	4.5fcd	3.8fcd	3.3fcd	2.9fcd	2.5fcd	2.2fcd	2fcd	1.8fcd	1.6fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6992	6998	6804	6478	5921	5363	4693	4010	3366	2776	2186	1833	1494	1225	1032	839	686	534	399	279
100%	100%	97%	93%	85%	77%	67%	57%	48%	40%	31%	26%	21%	18%	15%	12%	10%	8%	6%	4%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6992	6796	6588	6164	5740	5135	4516	3908	3316	2723	2327	1936	1621	1378	1138	973	808	658	520	384
100%	97%	94%	88%	82%	73%	65%	56%	47%	39%	33%	28%	23%	20%	16%	14%	12%	9%	7%	5%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6992	6867	6615	6182	5670	5138	4533	3928	3396	2888	2429	2095	1761	1521	1304	1107	949	792	644	498
100%	98%	95%	88%	81%	73%	65%	56%	49%	41%	35%	30%	25%	22%	19%	16%	14%	11%	9%	7%

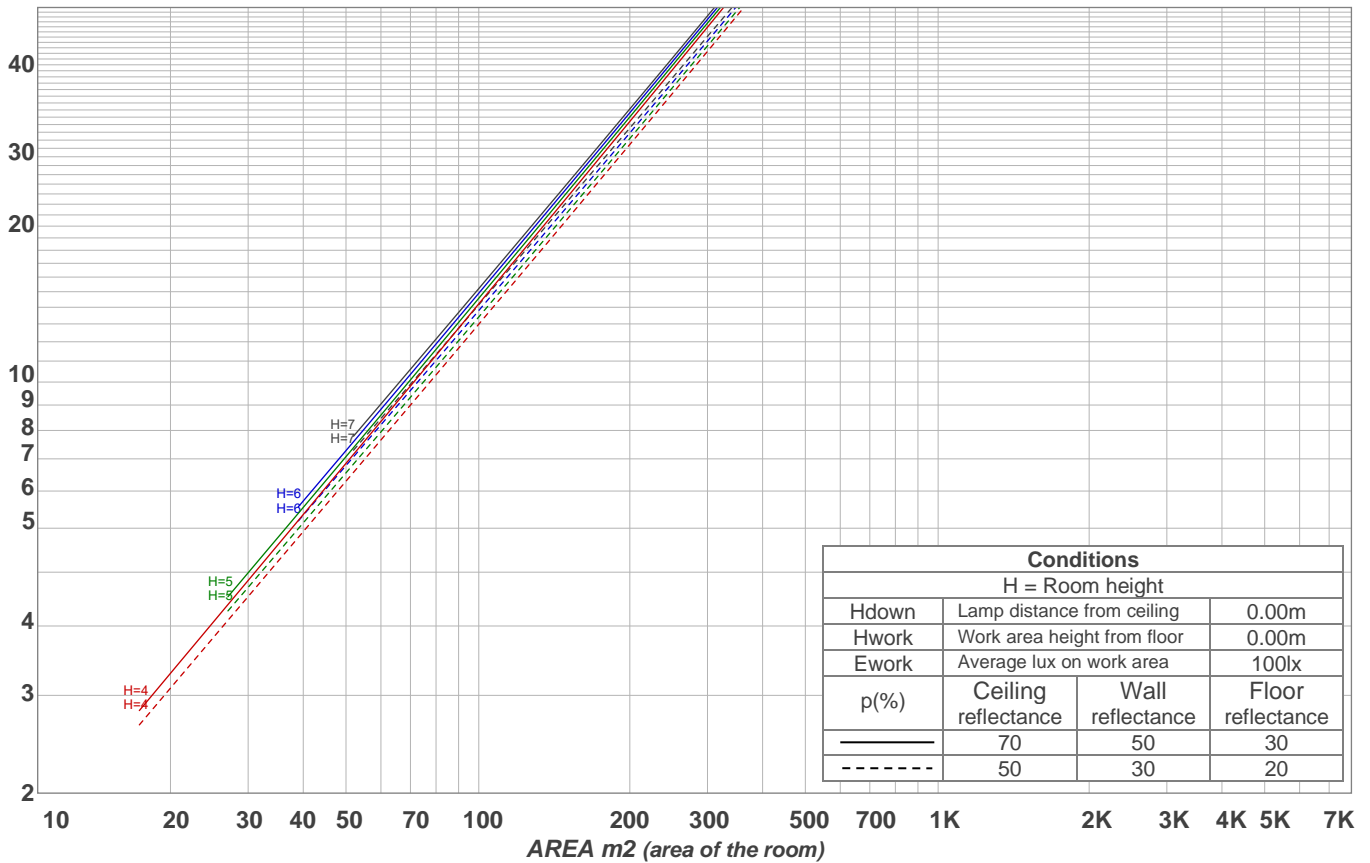
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6992	6881	6548	6215	5720	5142	4555	3932	3308	2795	2325	1903	1623	1343	1139	958	789	648	507	376
100%	98%	94%	89%	82%	74%	65%	56%	47%	40%	33%	27%	23%	19%	16%	14%	11%	9%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15.4°	33.4°	41.4°	98.8%	98.3%

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97	
2	112	109	106	104	110	107	105	103	104	103	101	102	100	99	99	98	97	95	95	95	
3	110	106	102	100	108	104	101	99	102	100	98	100	98	96	98	96	95	94	94	94	
4	107	102	99	97	106	101	98	96	100	97	95	98	96	94	96	94	93	92	92	92	
5	105	100	96	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	90	90	
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	89	89	
7	101	96	92	90	100	95	92	90	94	91	89	93	91	89	92	90	88	87	87	87	
8	99	94	90	88	98	93	90	88	92	90	88	92	89	87	91	89	87	86	86	86	
9	97	92	89	87	96	92	89	86	91	88	86	90	88	86	90	87	86	85	85	85	
10	96	90	87	85	95	90	87	85	89	87	85	89	86	85	88	86	84	84	84	84	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
395 lm	272 lm	20.8 lm	3.47 lm	1.89 lm	2.34 lm	2.50 lm	2.88 lm	3.04 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