

Light efficiency:



Output: 704 lm

Light quality:

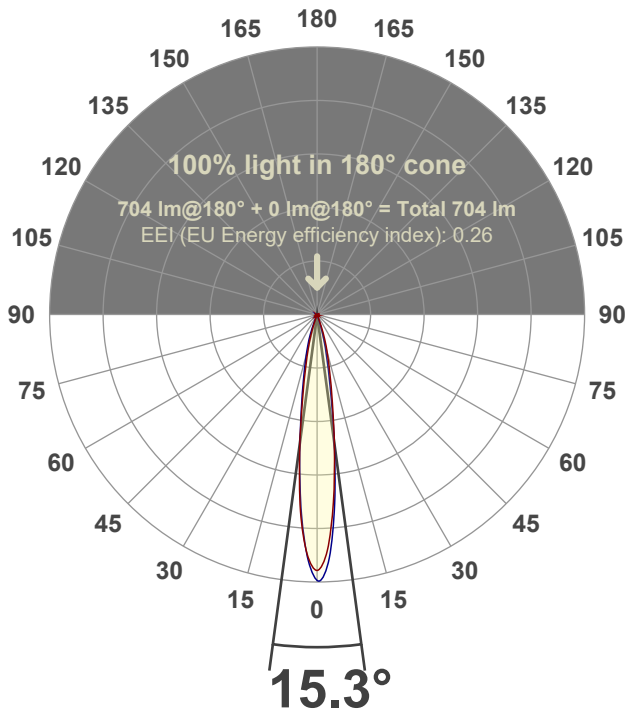


Peak: 7205 cd

Power: 15.1 W



Beam angle



Test number:

GR-F-F-A14-3022-SP-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3022 15° Optic

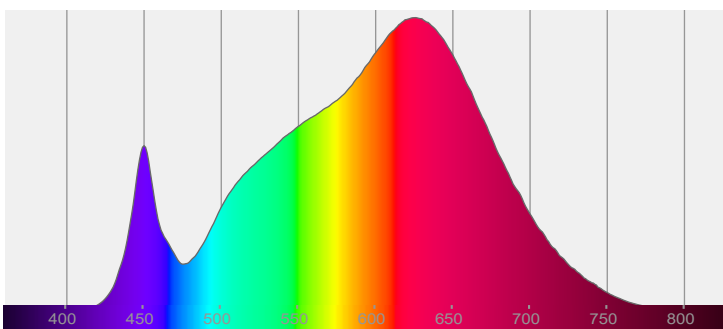
Date and time:

6/30/2022 4:10:07 PM

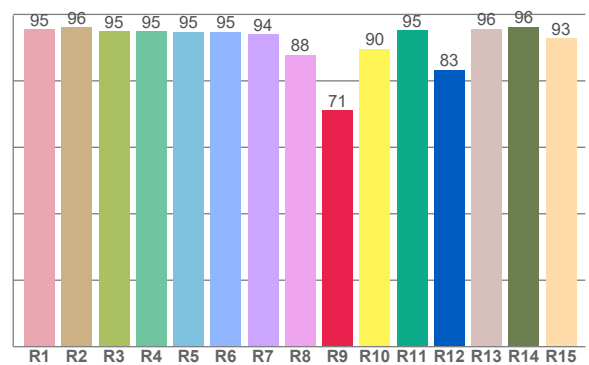
Delivered Lumens

704

Spectra



CRI: 94.1 (R1-R8)



Color parameters

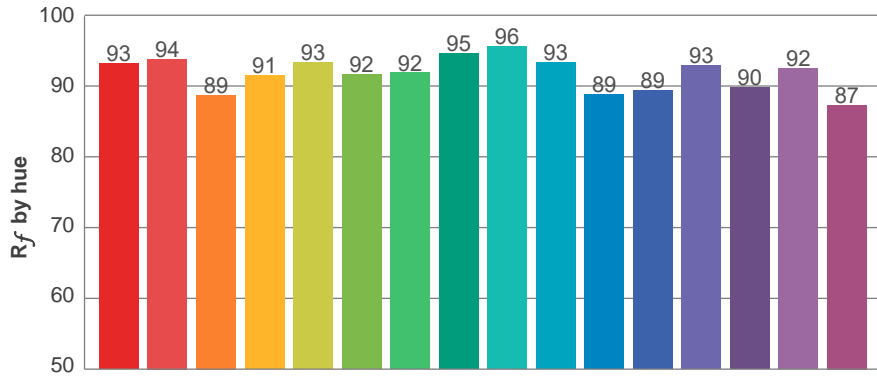
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.1	71.2	91.8	102.5	91.0	0.436	0.400	0.252	0.346	-0.0017

R_f 91.8
Fidelity index R_f

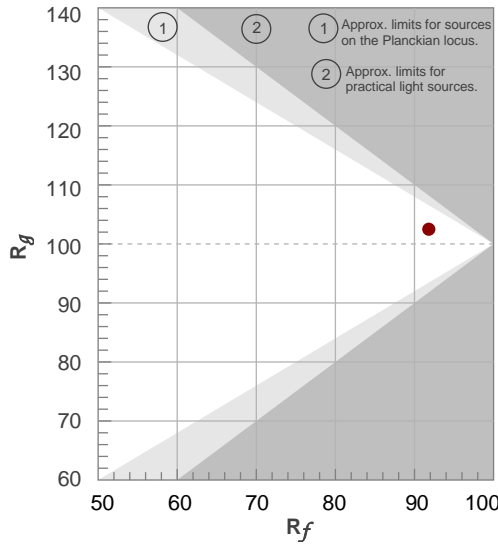
R_g 102.5
Gammut index R_g

TM30: 91.8

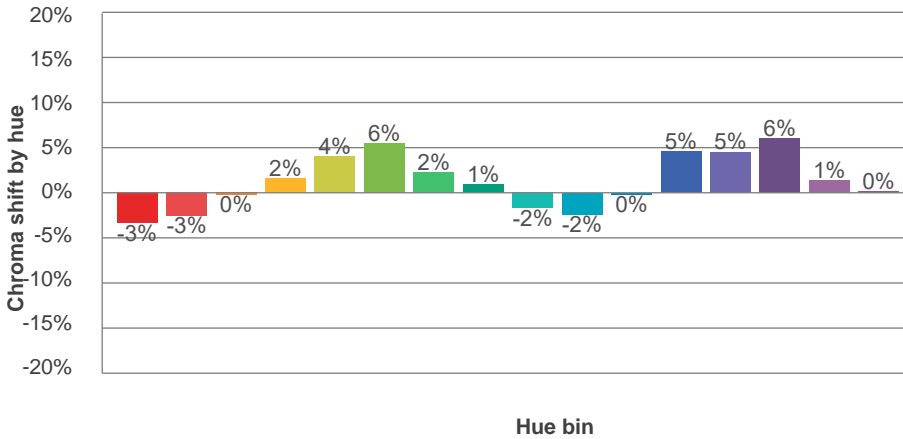
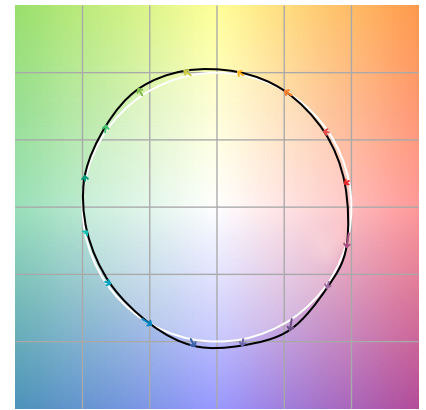
TM-30Color



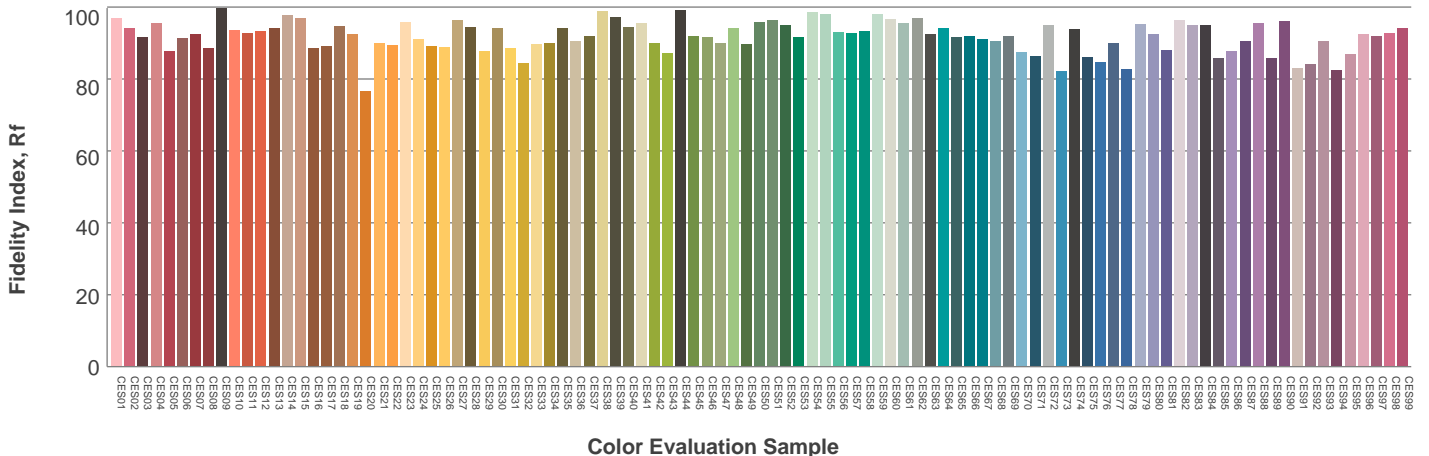
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-5%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	92	1%	-4%
16	87	0%	-10%



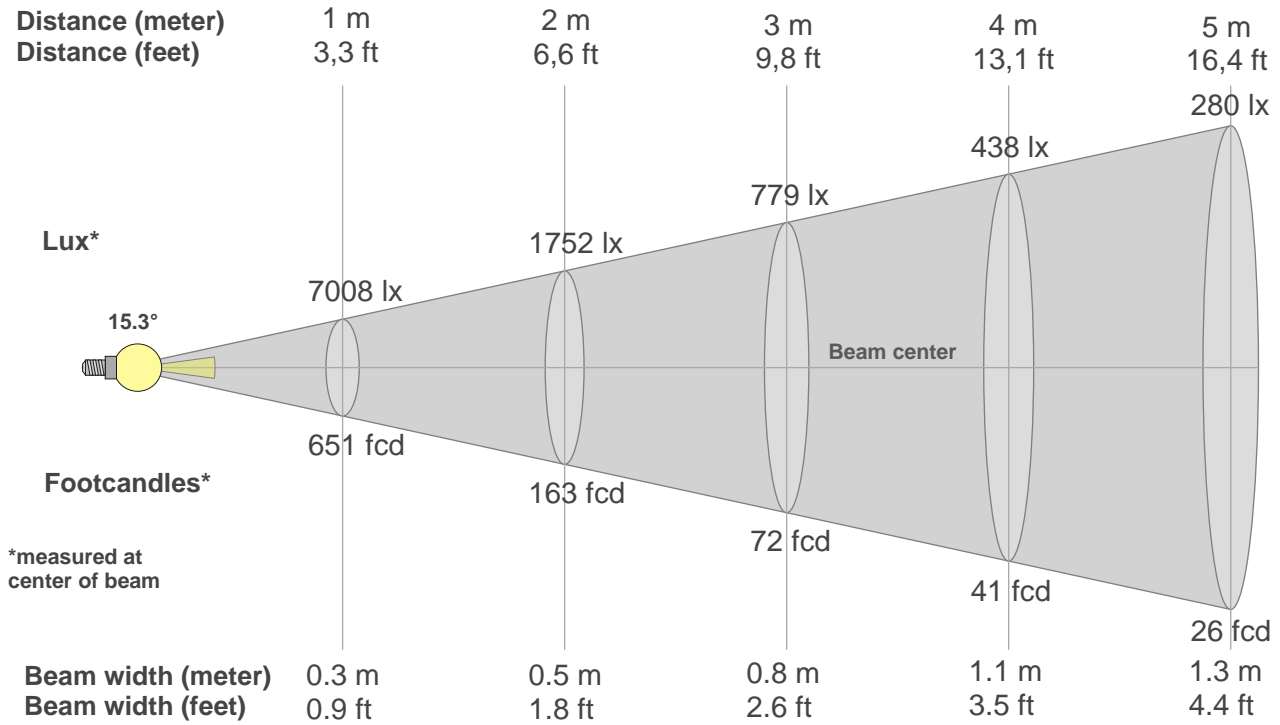
Color vector graphics



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
7008lx	1752lx	779lx	438lx	280lx	195lx	143lx	109lx	87lx	70lx	58lx	49lx	41lx	36lx	31lx	27lx	24lx	22lx	19lx	18lx
651fcd	162.8fcd	72.3fcd	40.7fcd	26fcd	18.1fcd	13.3fcd	10.2fcd	8fcd	6.5fcd	5.4fcd	4.5fcd	3.9fcd	3.3fcd	2.9fcd	2.5fcd	2.3fcd	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°
7008	6708	6487	6120	5600	5076	4481	3886	3348	2851	2376	2048	1720	1472	1261	1062	902	743	593	447
100%	96%	93%	87%	80%	72%	64%	55%	48%	41%	34%	29%	25%	21%	18%	15%	13%	11%	8%	6%

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°
7008	7061	6808	6514	5918	5321	4659	3965	3294	2712	2130	1741	1413	1125	931	738	578	424	289	184
100%	101%	97%	93%	84%	76%	66%	57%	47%	39%	30%	25%	20%	16%	13%	11%	8%	6%	4%	3%

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°
7008	6725	6546	6194	5727	5232	4579	3927	3332	2764	2248	1896	1543	1300	1087	892	735	577	440	305
100%	96%	93%	88%	82%	75%	65%	56%	48%	39%	32%	27%	22%	19%	16%	13%	10%	8%	6%	4%

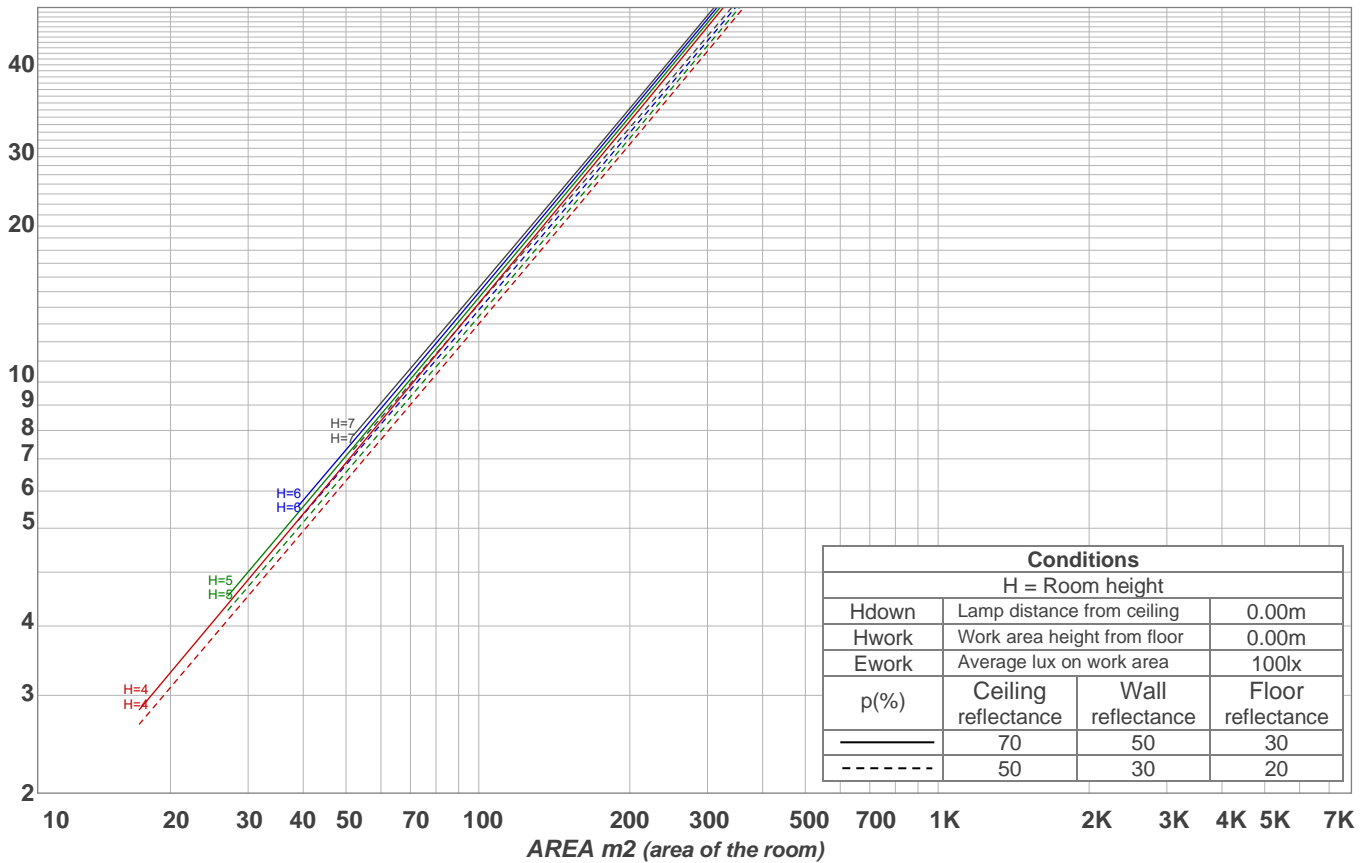
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7008	6891	6672	6170	5659	5094	4479	3872	3355	2839	2431	2092	1772	1551	1331	1155	999	850	721	592
100%	98%	95%	88%	81%	73%	64%	55%	48%	41%	35%	30%	25%	22%	19%	16%	14%	12%	10%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15.3°	33.3°	41.5°	98.6%	98.1%

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	102	101	101	100	99	99	98	97	97	96	95	
3	109	105	102	100	108	104	101	99	102	99	97	99	98	96	97	96	95	95	94	93	
4	107	102	99	96	105	101	98	96	99	97	95	98	95	94	96	94	93	92	91	90	
5	105	100	96	94	103	99	96	93	97	95	92	96	94	92	95	93	91	90	89	88	
6	102	97	94	91	101	97	93	91	95	93	91	94	92	90	93	91	89	88	87	86	
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85	
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	90	88	87	86	85	84	
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	84	83	82	
10	95	90	87	85	95	90	87	85	89	86	84	89	86	84	88	86	84	83	82	81	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
392 lm	271 lm	23.3 lm	4.05 lm	2.20 lm	2.32 lm	2.81 lm	3.28 lm	3.65 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