

Light efficiency:



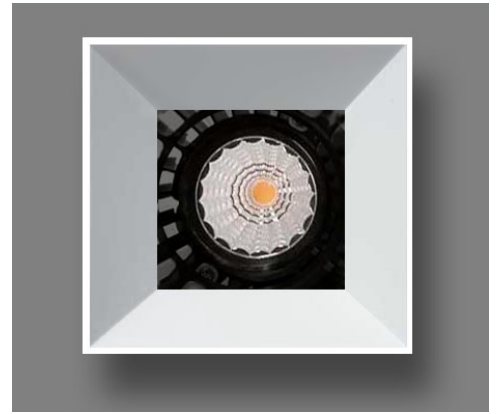
Output: 1034 lm

Light quality:

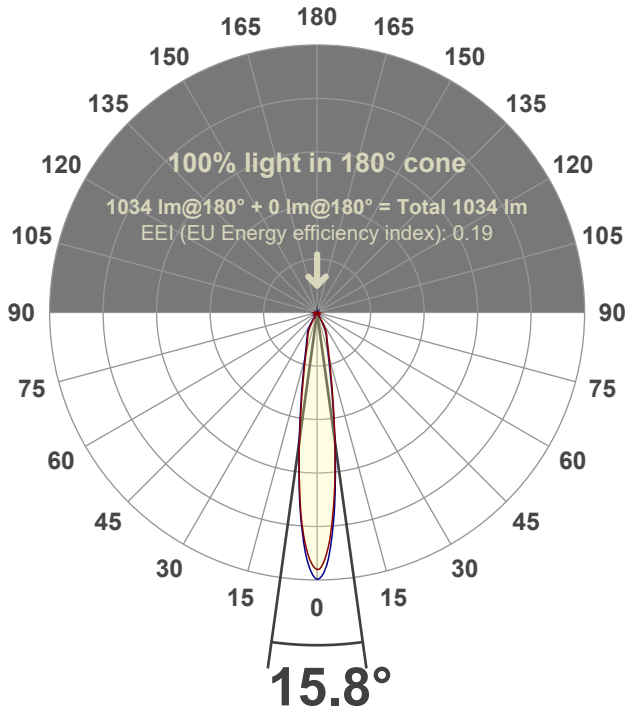


Peak: 7165 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

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

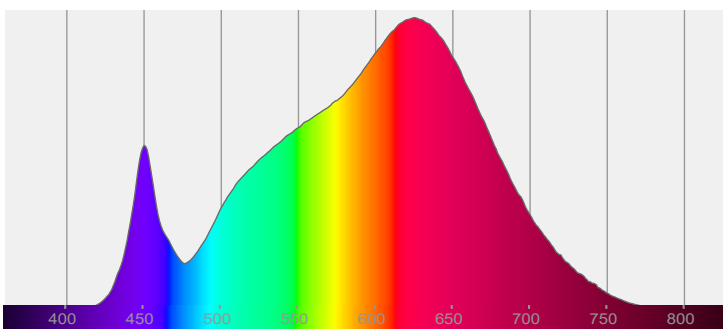
Date and time:

6/30/2022 1:57:17 PM

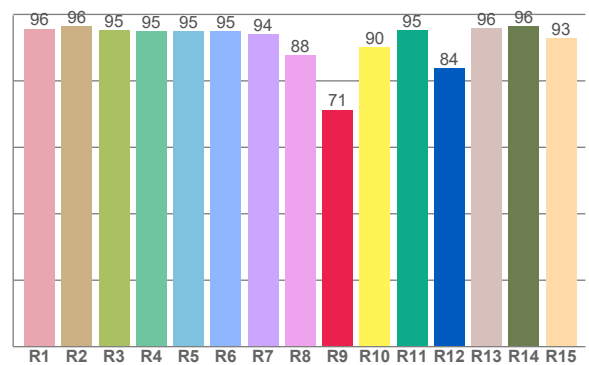
Delivered Lumens

1034

Spectra



CRI: 94.2 (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
	94.2	71.3	91.8	102.5	91.0	0.435	0.398	0.252	0.346	-0.0021

R_f 91.8

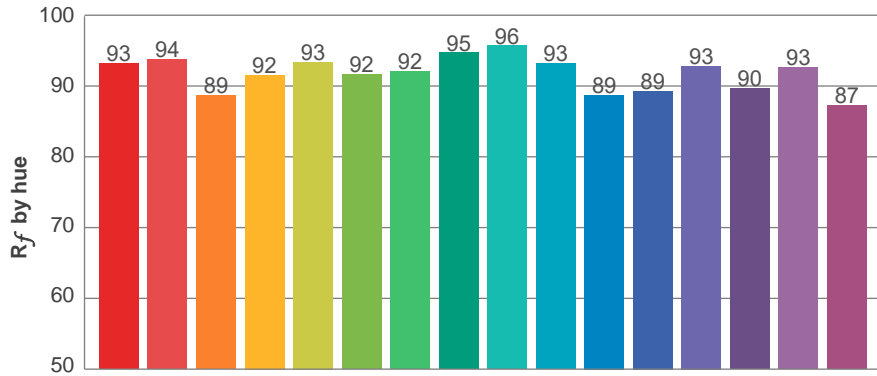
Fidelity index R_f

R_g 102.5

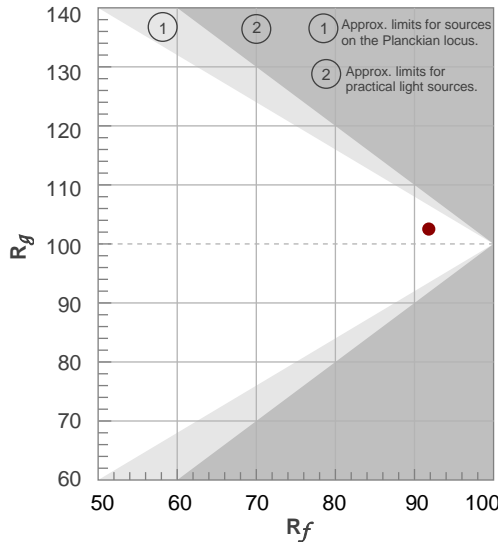
Gammut index R_g

TM30: 91.8

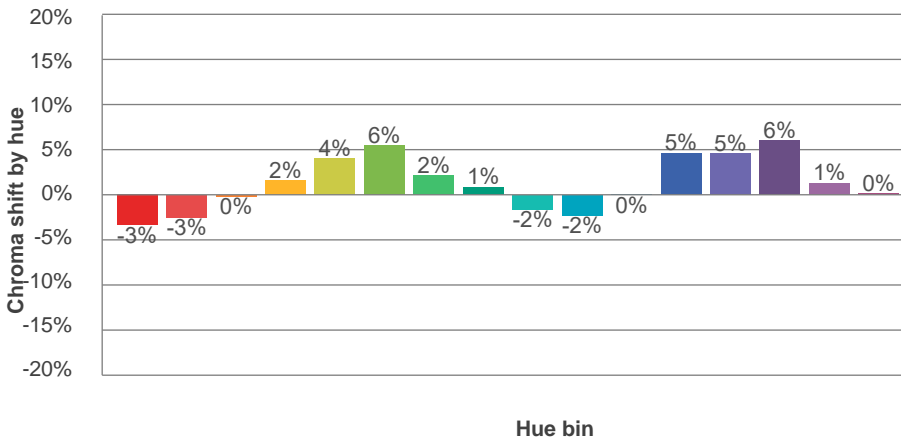
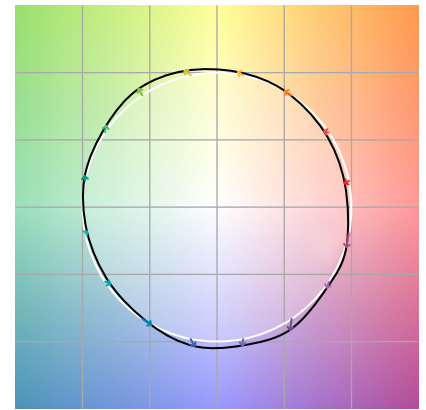
TM-30Color



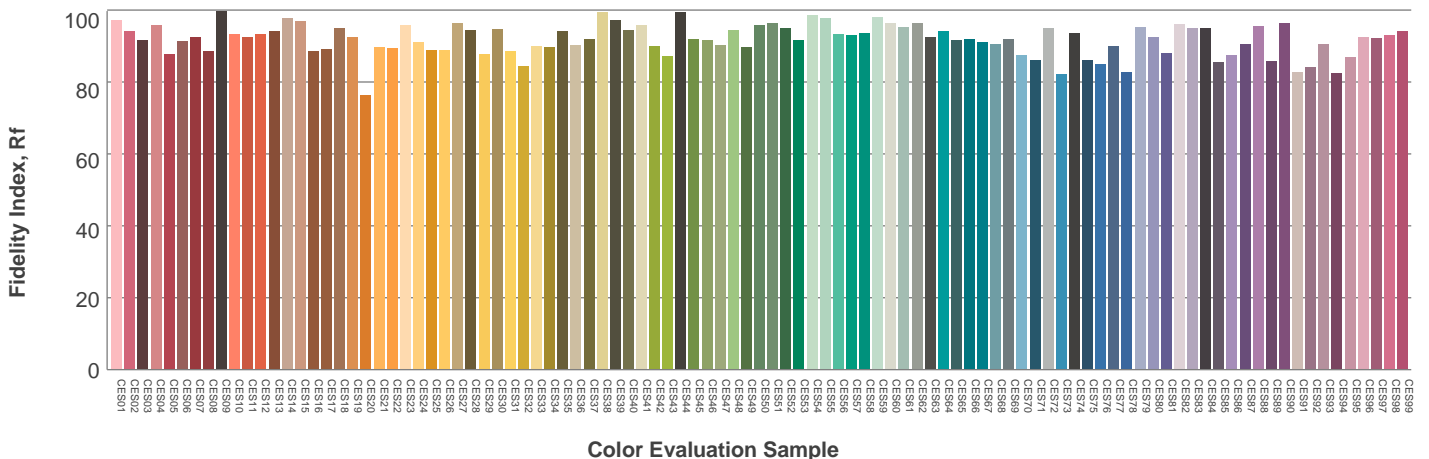
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	89	0%	6%
4	92	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



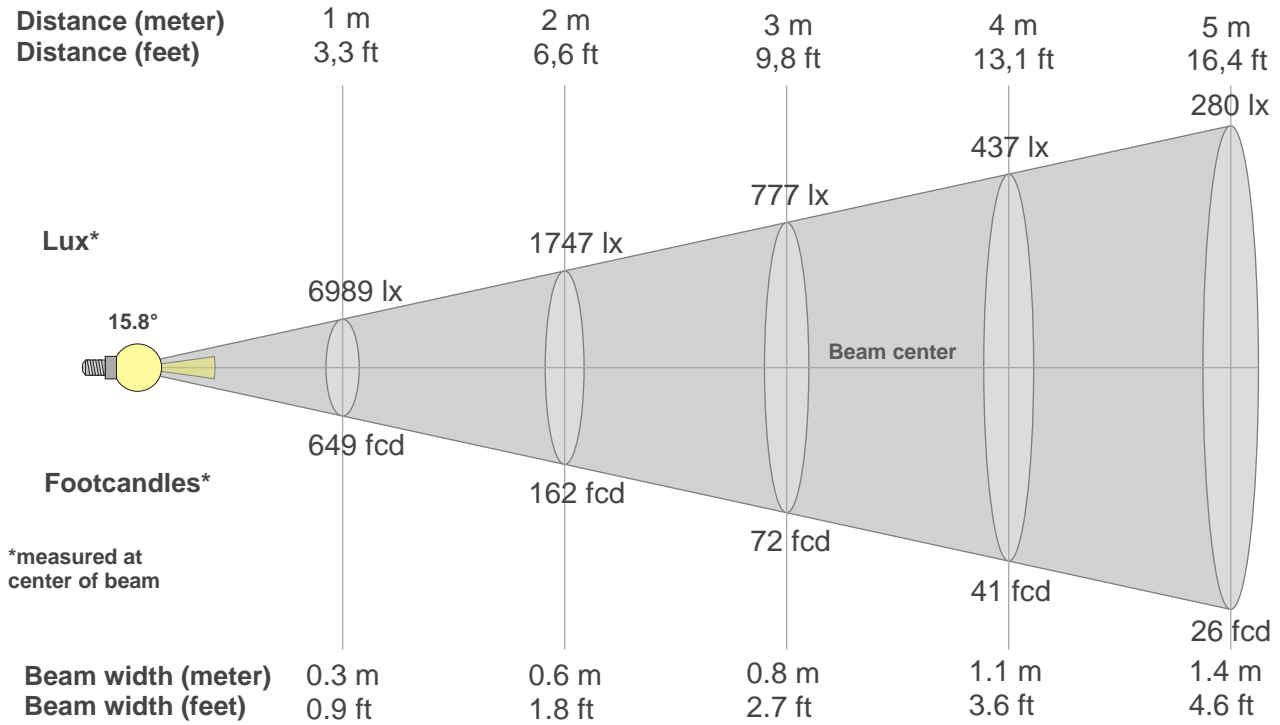
Color vector graphics



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
6989lx	1747lx	777lx	437lx	280lx	194lx	143lx	109lx	86lx	70lx	58lx	49lx	41lx	36lx	31lx	27lx	24lx	22lx	19lx	17lx
649.3fcd	162.3fcd	72.1fcd	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°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6989	6482	5666	4574	3436	2535	1900	1454	1149	943	800	706	627	535	406	227	79	23	7	6
100%	93%	81%	65%	49%	36%	27%	21%	16%	13%	11%	10%	9%	8%	6%	3%	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°
6989	6794	5875	4698	3481	2413	1718	1309	1041	863	740	648	540	375	200	65	13	10	8	7
100%	97%	84%	67%	50%	35%	25%	19%	15%	12%	11%	9%	8%	5%	3%	1%	0%	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°
6989	6550	5710	4577	3434	2467	1781	1347	1072	885	758	666	590	473	307	145	35	9	7	6
100%	94%	82%	65%	49%	35%	25%	19%	15%	13%	11%	10%	8%	7%	4%	2%	1%	0%	0%	0%

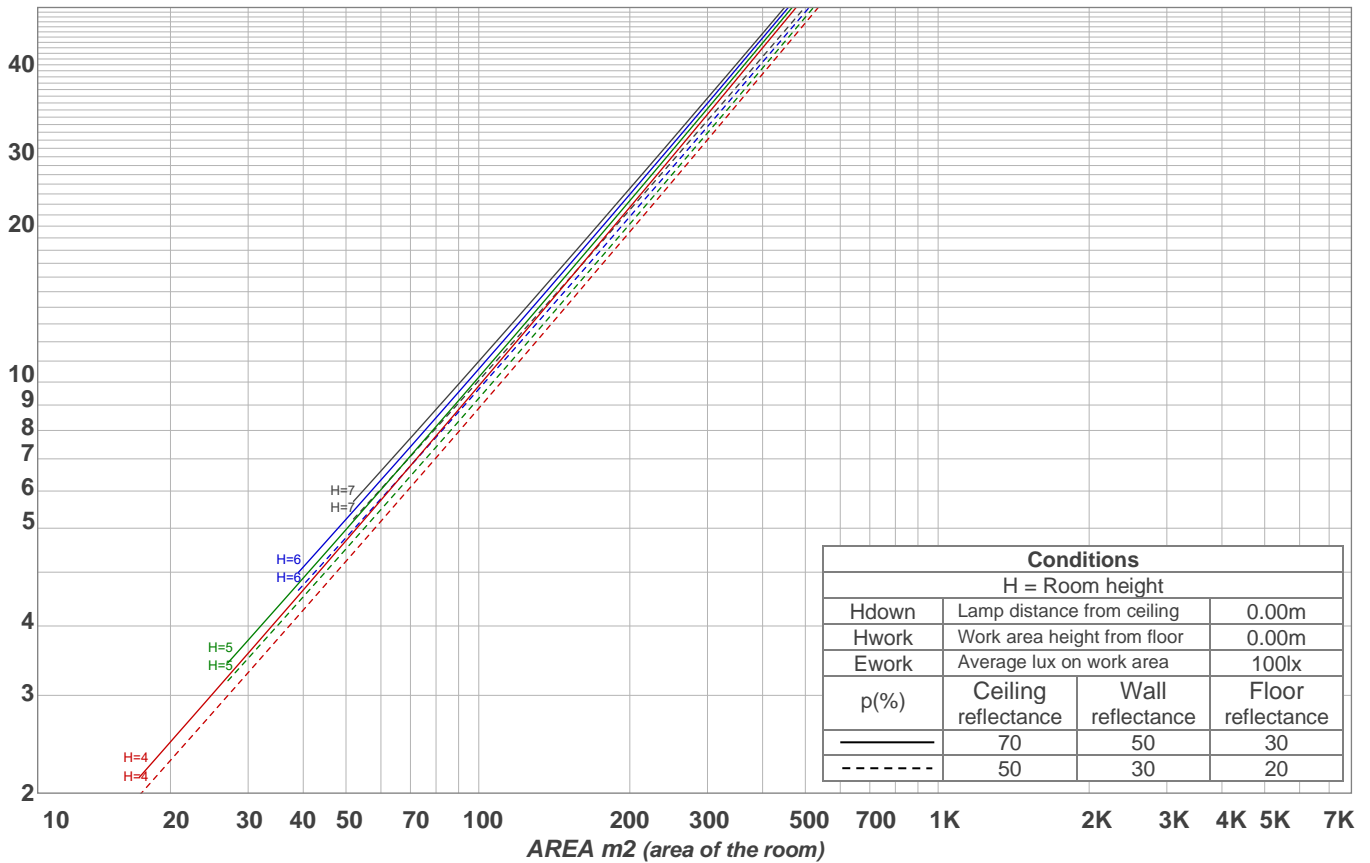
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6989	6703	5802	4656	3495	2541	1912	1475	1171	964	821	721	649	582	490	352	169	47	12	7
100%	96%	83%	67%	50%	36%	27%	21%	17%	14%	12%	10%	9%	8%	7%	5%	2%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15.8°	43.2°	60.2°	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	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93	93	93	
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90	90	90	
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87	87	87	
5	101	95	91	88	100	94	91	88	93	89	87	91	88	86	90	87	86	84	84	84	
6	98	92	88	85	97	91	87	85	90	87	84	89	86	84	88	85	83	82	82	82	
7	96	89	85	82	94	89	85	82	87	84	81	86	83	81	85	83	81	80	80	80	
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77	77	77	
9	91	84	80	77	90	83	80	77	83	79	77	82	79	77	81	78	76	75	75	75	
10	88	82	78	75	87	81	77	75	81	77	75	80	77	75	79	76	74	73	73	73	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
402 lm	361 lm	235 lm	22.6 lm	2.77 lm	2.25 lm	2.44 lm	2.96 lm	3.09 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