

Light efficiency:



Output: 917 lm

Light quality:

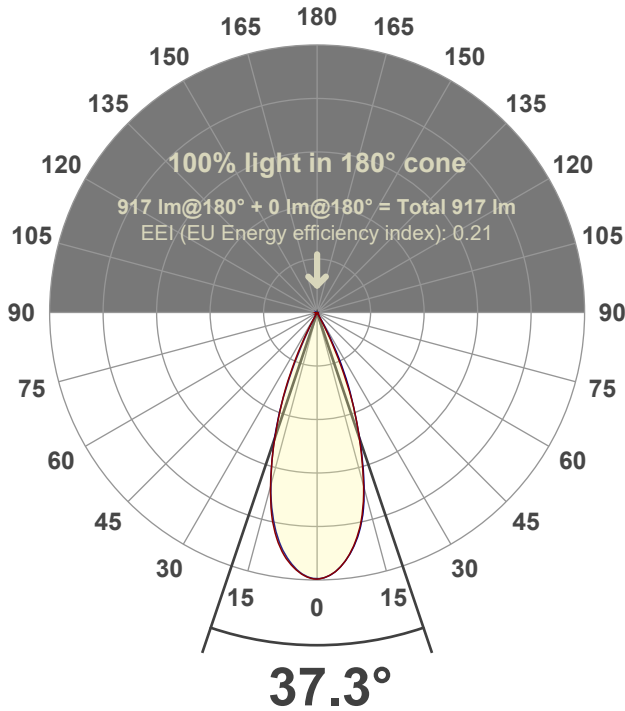


Peak: 2501 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-3022-FL-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3022 38° Optic

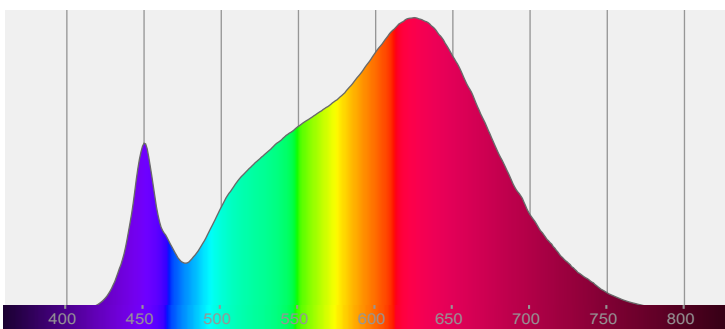
Date and time:

6/30/2022 4:37:37 PM

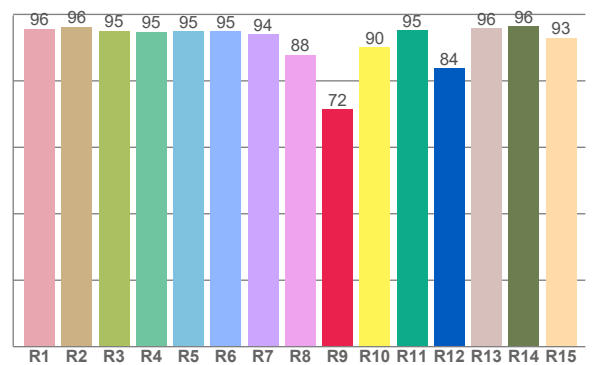
Delivered Lumens

917

Spectra



CRI: 94.2 (R1-R8)



Color parameters

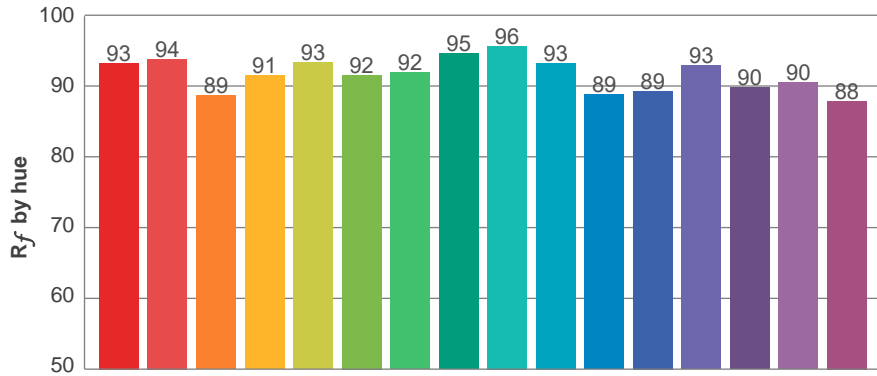
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.2	71.5	91.8	102.7	91.0	0.435	0.398	0.252	0.346	-0.0020

R_f 91.8
Fidelity index R_f

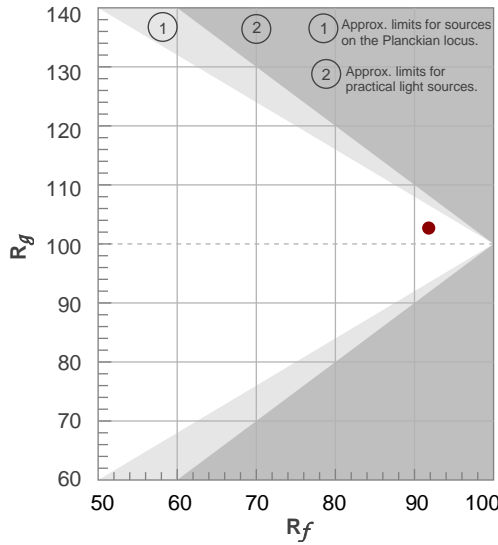
R_g 102.7
Gammut index R_g

TM30: 91.8

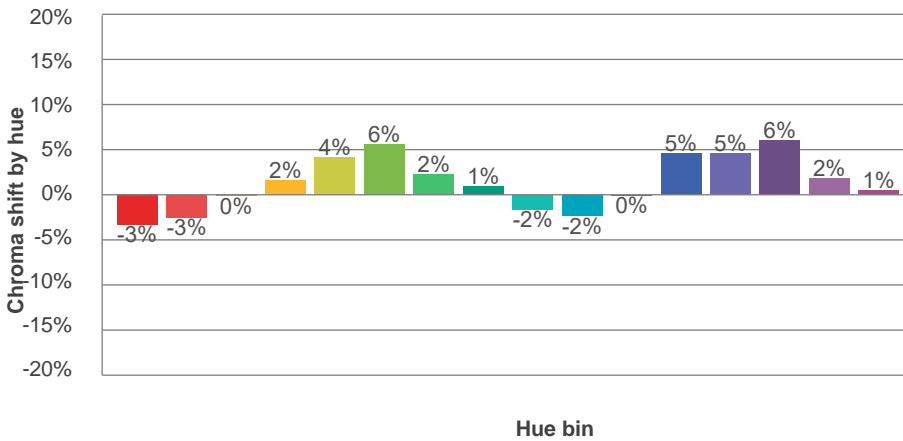
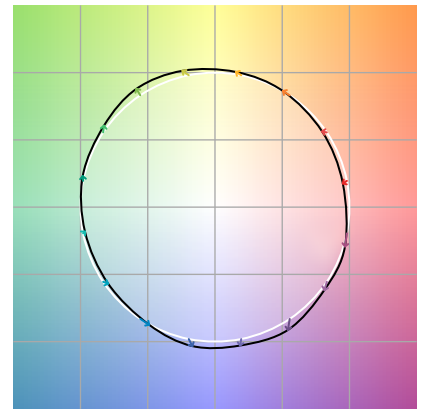
TM-30Color



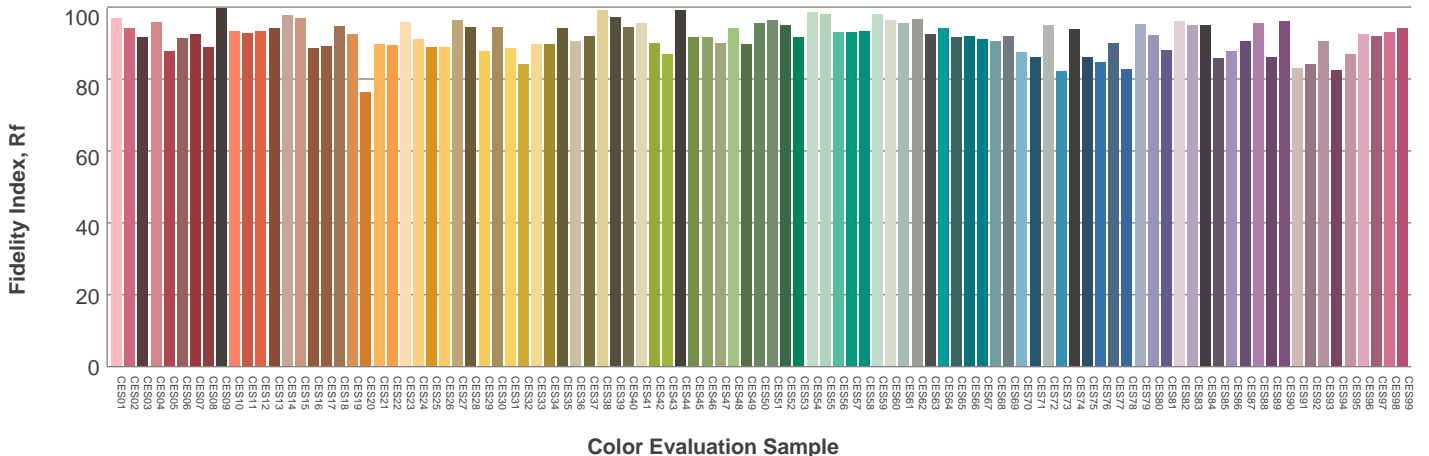
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	90	2%	-6%
16	88	1%	-10%



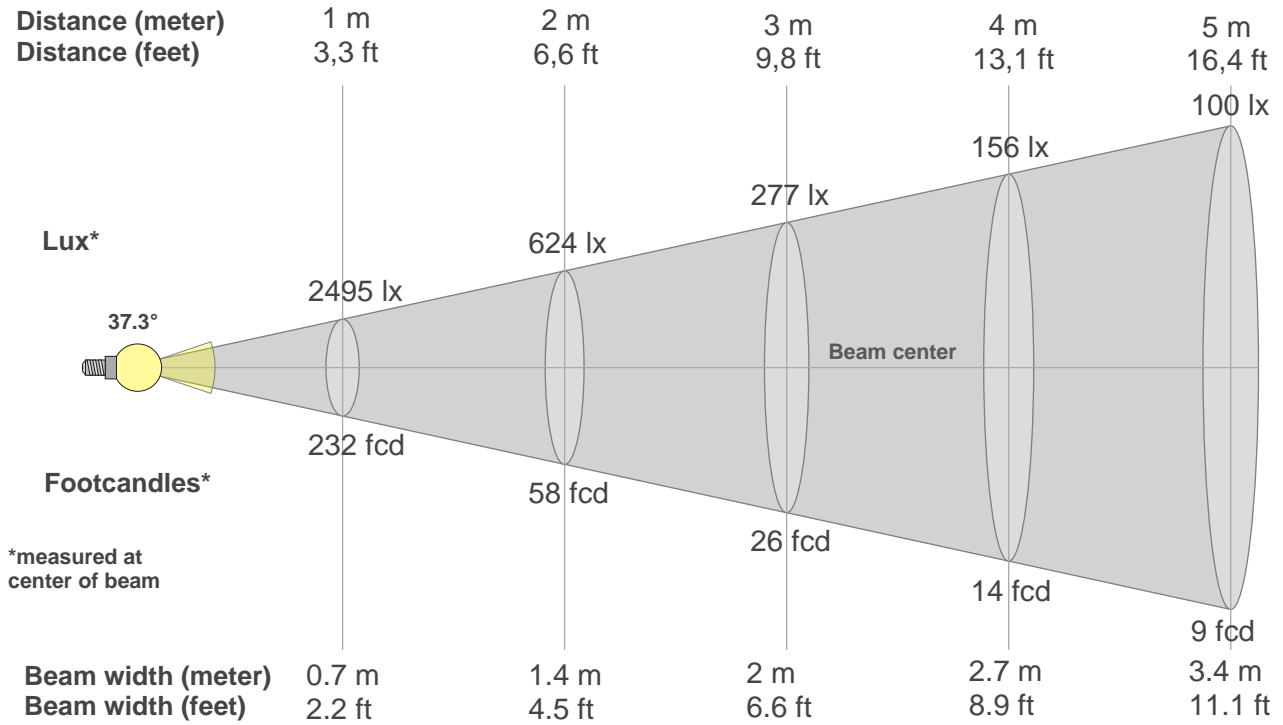
Color vector graphics



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
2495lx	624lx	277lx	156lx	100lx	69lx	51lx	39lx	31lx	25lx	21lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
231.8fcd	57.9fcd	25.8fcd	14.5fcd	9.3fcd	6.4fcd	4.7fcd	3.6fcd	2.9fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2495	2481	2435	2362	2265	2143	1996	1799	1565	1324	1087	849	585	352	165	53	21	12	10	8
100%	99%	98%	95%	91%	86%	80%	72%	63%	53%	44%	34%	23%	14%	7%	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°
2495	2477	2435	2366	2271	2152	2003	1816	1587	1337	1090	868	657	441	232	87	26	11	9	7
100%	99%	98%	95%	91%	86%	80%	73%	64%	54%	44%	35%	26%	18%	9%	3%	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°
2495	2481	2438	2372	2284	2162	2002	1801	1572	1328	1077	844	605	380	189	47	21	12	9	7
100%	99%	98%	95%	92%	87%	80%	72%	63%	53%	43%	34%	24%	15%	8%	2%	1%	0%	0%	0%

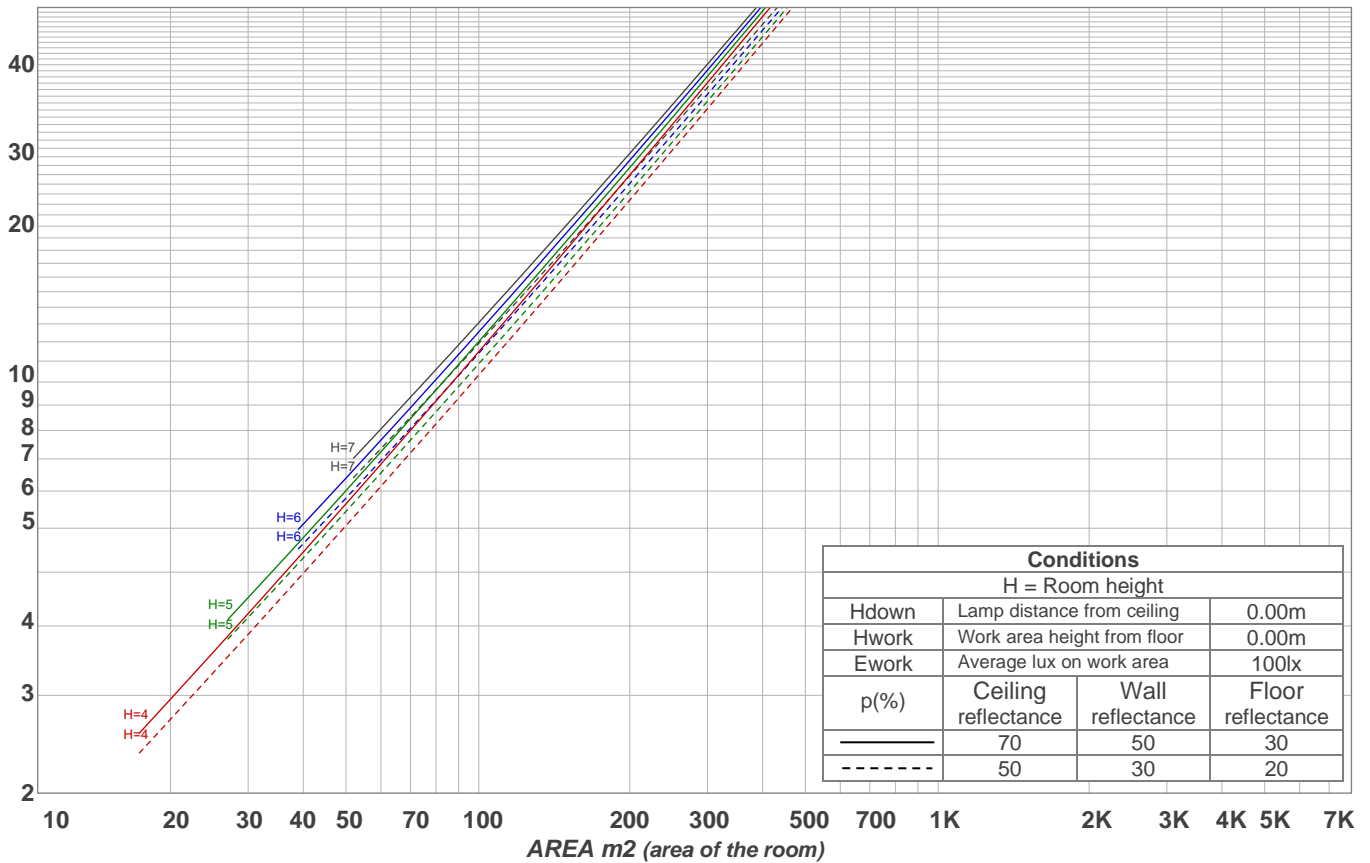
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2495	2478	2436	2360	2260	2133	1976	1788	1565	1332	1086	821	544	284	115	42	18	10	8	7
100%	99%	98%	95%	91%	85%	79%	72%	63%	53%	44%	33%	22%	11%	5%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37.3°	54.2°	59.3°	99.1%	98.7%

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	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	
2	111	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	93	91	90	88	88	88	
4	103	97	93	90	101	96	92	89	94	91	88	92	90	87	91	88	86	85	85	85	
5	100	93	89	86	98	92	88	85	91	87	85	89	86	84	88	85	83	82	82	82	
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	79	79	
7	93	86	82	79	92	86	81	78	85	81	78	84	80	78	83	80	77	76	76	76	
8	90	83	79	76	89	83	79	76	82	78	75	81	77	75	80	77	75	74	74	74	
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	75	72	71	71	71	
10	85	78	73	70	84	77	73	70	77	73	70	76	73	70	75	72	70	69	69	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
222 lm	456 lm	218 lm	8.48 lm	3.09 lm	2.41 lm	2.66 lm	2.17 lm	2.58 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