

Light efficiency:



Output: 917 lm

Light quality:

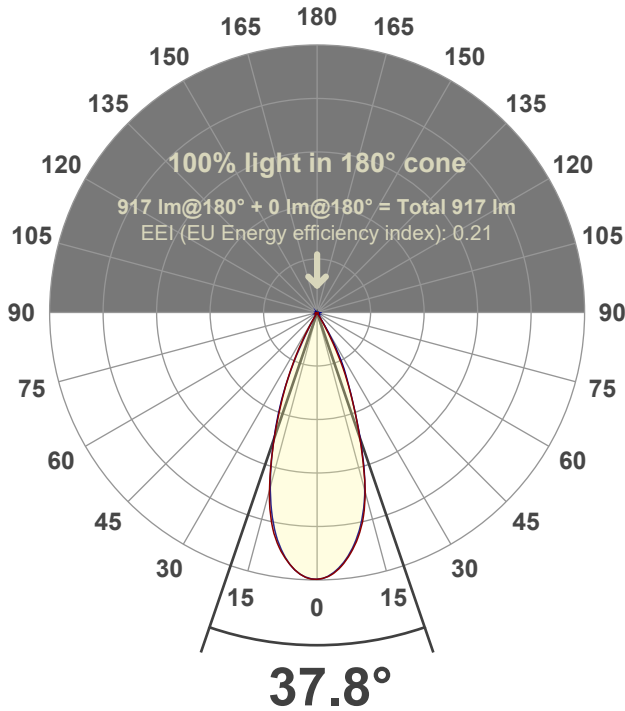


Peak: 2361 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-2722-FL-RD-Rev2

Luminaire Model:

Graffiti Regress Round Fixed Downlight-A14-2722 38° Optic

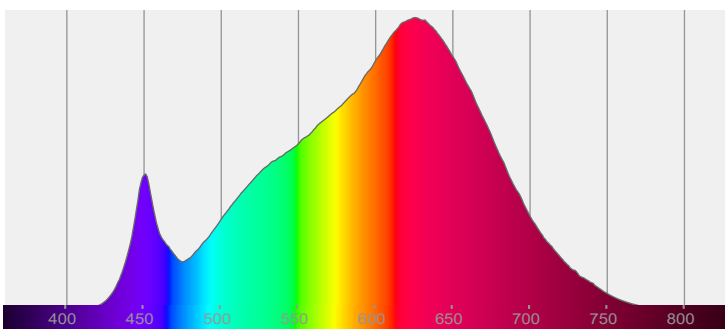
Date and time:

3/24/2022 6:55:45 PM

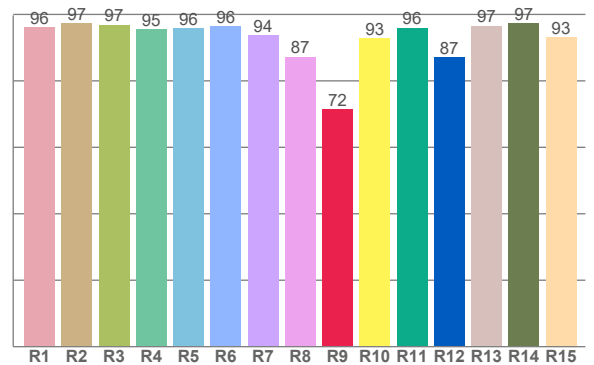
Delivered Lumens

917

Spectra



CRI: 94.9 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	94.9	71.5	92.6	102.0	91.4	0.446	0.402	0.258	0.348	-0.0022

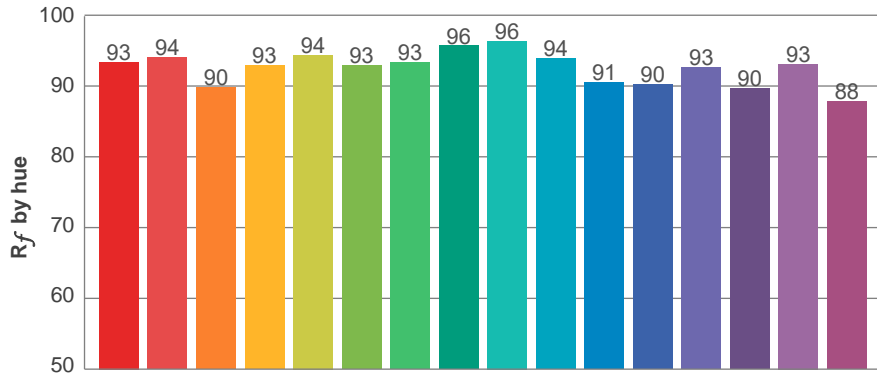
**$R_f$  92.6**  
Fidelity index  $R_f$

---

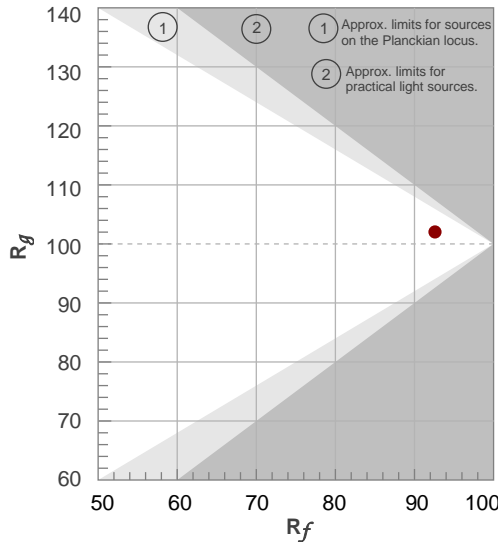
**$R_g$  102.0**  
Gammut index  $R_g$

TM30: 92.6

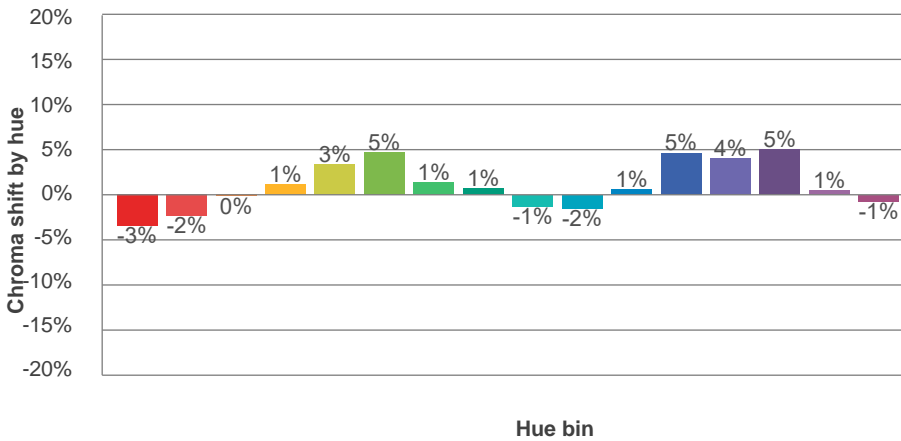
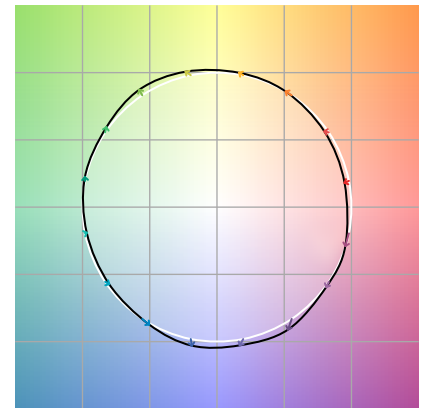
TM-30Color



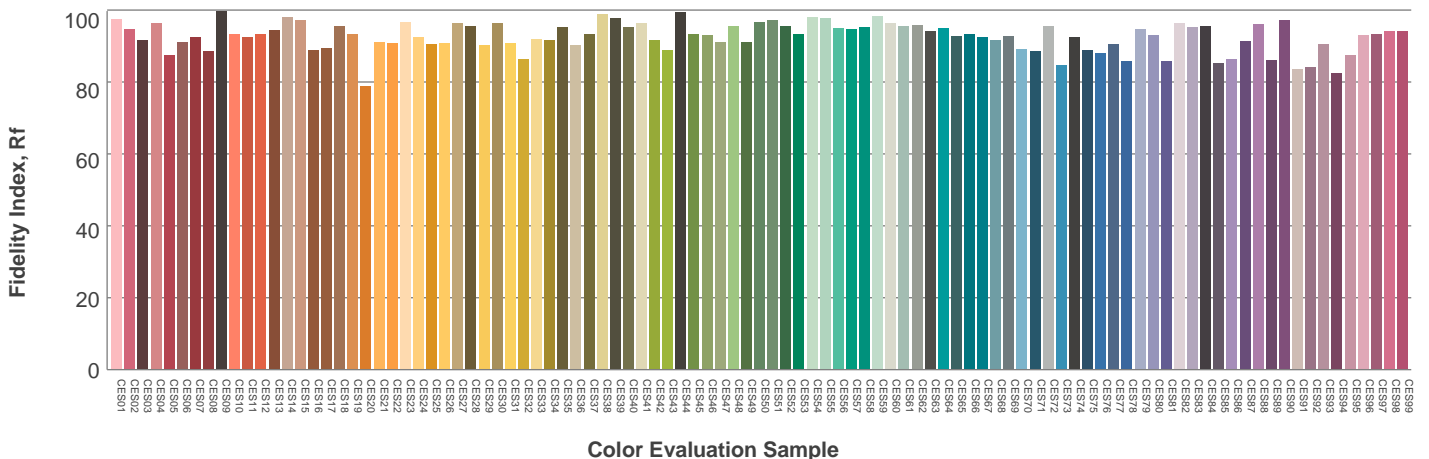
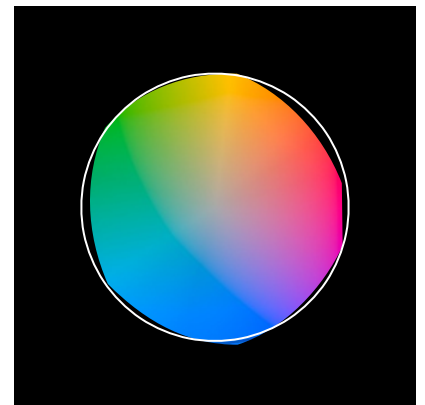
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	2%
3	90	0%	5%
4	93	1%	3%
5	94	3%	3%
6	93	5%	0%
7	93	1%	-4%
8	96	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	91	1%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



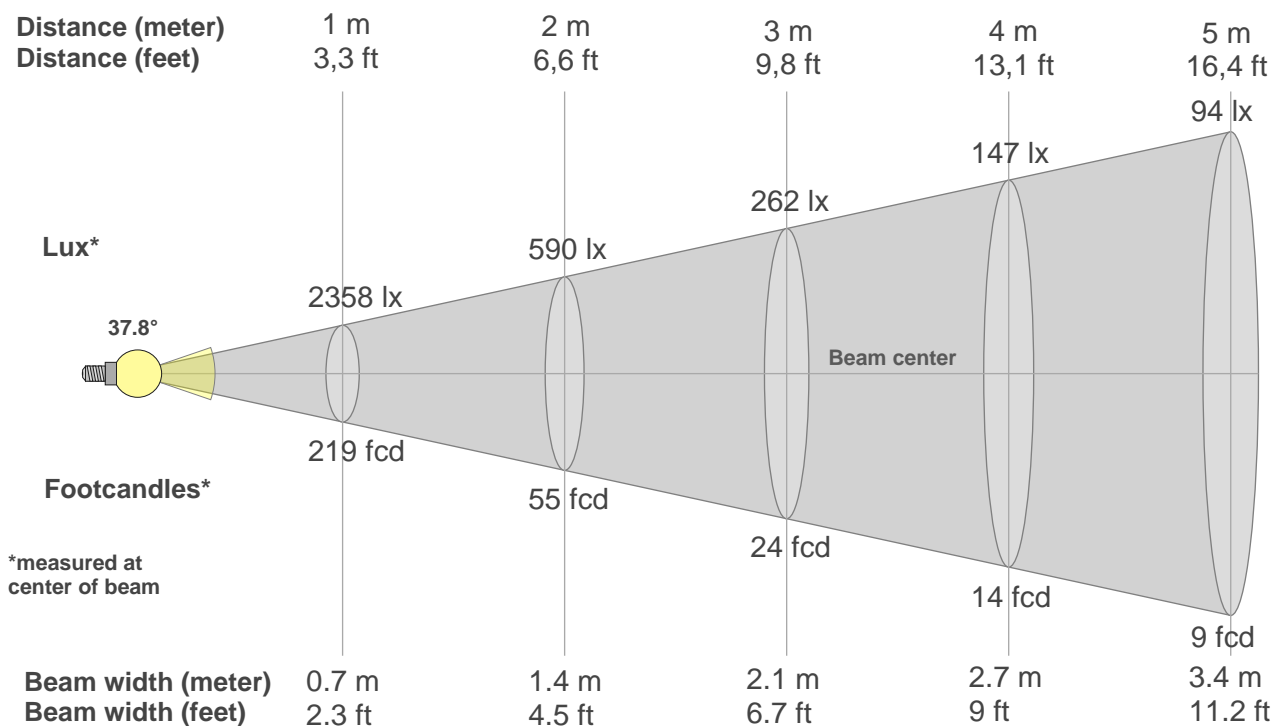
Color vector graphics



Color distortion



### Beam details



\*measured at center of beam

#### 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
2358lx	590lx	262lx	147lx	94lx	66lx	48lx	37lx	29lx	24lx	19lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	7lx	6lx
219.1fcd	54.8fcd	24.3fcd	13.7fcd	8.8fcd	6.1fcd	4.5fcd	3.4fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd

#### 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°
2358	2342	2300	2235	2149	2042	1910	1740	1529	1280	1045	836	647	464	283	129	41	12	6	5
100%	99%	98%	95%	91%	87%	81%	74%	65%	54%	44%	35%	27%	20%	12%	5%	2%	1%	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°
2358	2342	2295	2225	2134	2023	1890	1730	1527	1294	1058	843	666	530	369	209	83	14	6	4
100%	99%	97%	94%	90%	86%	80%	73%	65%	55%	45%	36%	28%	22%	16%	9%	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°
2358	2353	2313	2248	2163	2057	1921	1742	1517	1282	1050	833	638	451	275	129	36	9	6	4
100%	100%	98%	95%	92%	87%	81%	74%	64%	54%	45%	35%	27%	19%	12%	5%	2%	0%	0%	0%

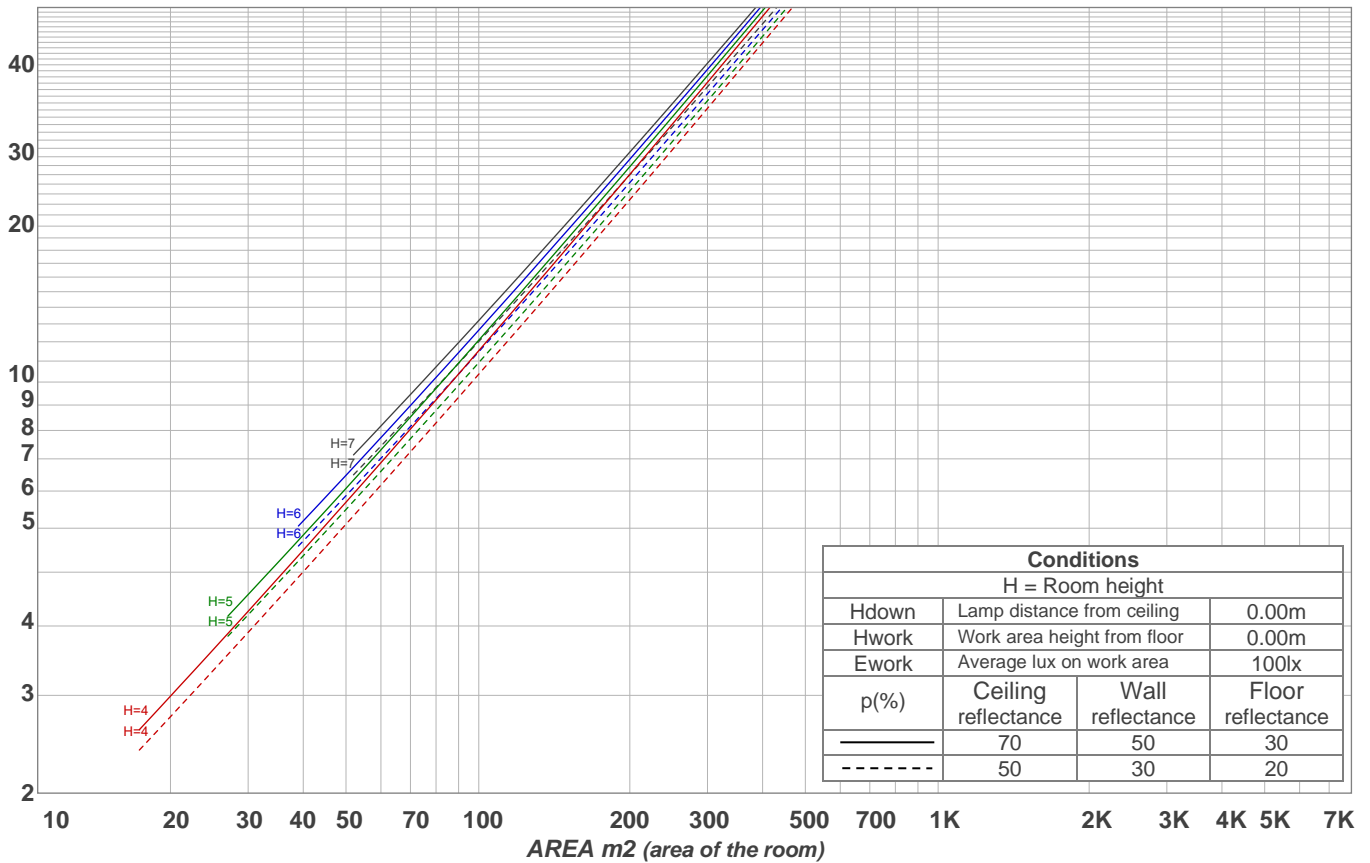
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2358	2346	2310	2247	2156	2034	1881	1701	1499	1281	1066	854	630	404	198	61	23	10	5	5
100%	100%	98%	95%	91%	86%	80%	72%	64%	54%	45%	36%	27%	17%	8%	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
37.8°	57.1°	62.7°	99.4%	99.1%

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	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88	88	88	
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81	81	81	
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78	78	78	
7	93	86	81	78	92	85	81	78	84	80	77	83	80	77	82	79	77	76	76	76	
8	90	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	73	73	73	
9	87	80	75	72	86	79	75	72	78	74	72	78	74	72	77	74	71	70	70	70	
10	84	77	72	69	83	76	72	69	76	72	69	75	72	69	74	71	69	68	68	68	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
210 lm	438 lm	247 lm	13.1 lm	1.94 lm	1.94 lm	1.63 lm	1.50 lm	1.88 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