

Light efficiency:



Output: 937 lm

Light quality:

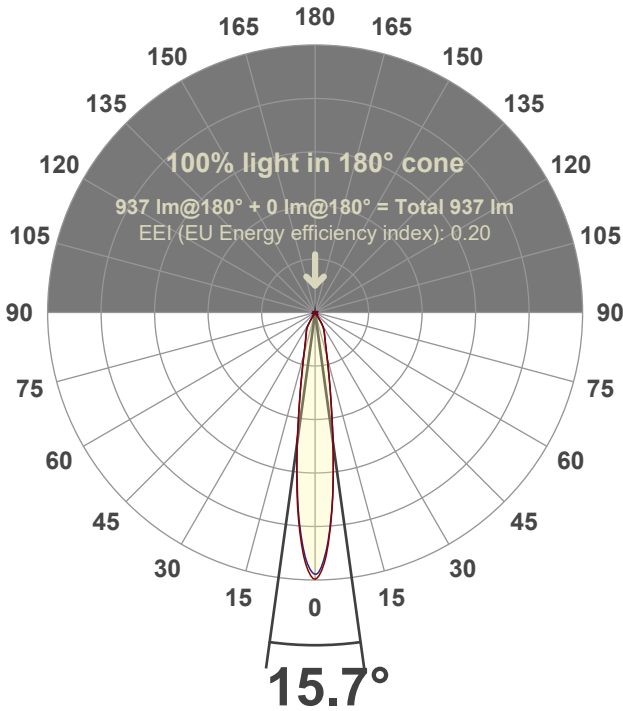


Peak: 6089 cd

Power: 14.6 W



Beam angle



Test number:

GR-O-F-A14-3019-SP-RD-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3019 15° Optic

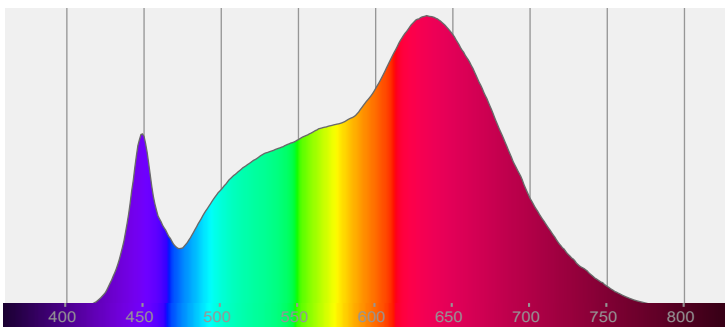
Date and time:

3/24/2022 8:14:05 PM

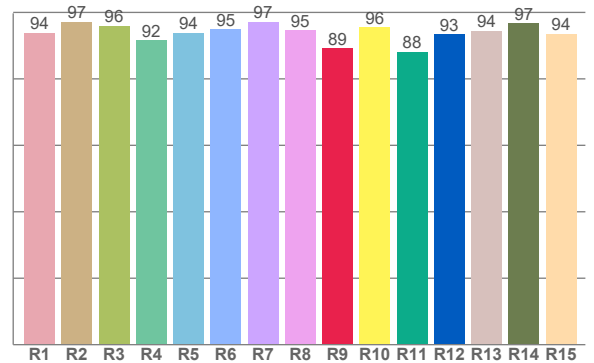
Delivered Lumens

937

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	89.1	94.9	105.5	95.0	0.422	0.387	0.248	0.342	-0.0047

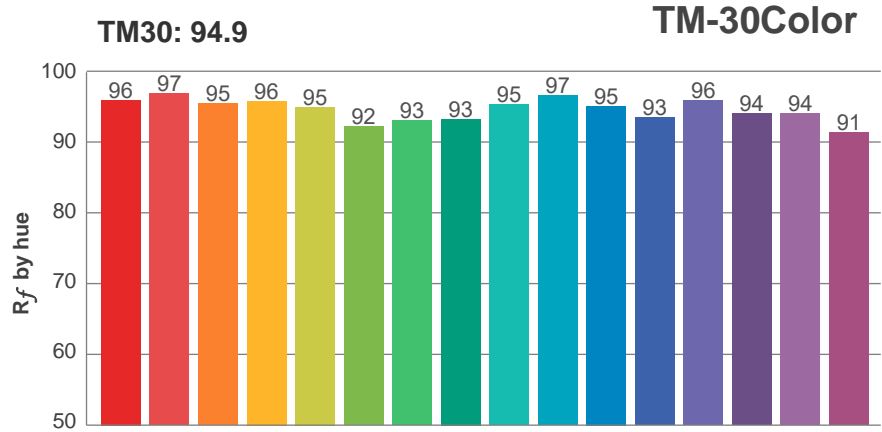
**$R_f$  94.9**

Fidelity index  $R_f$

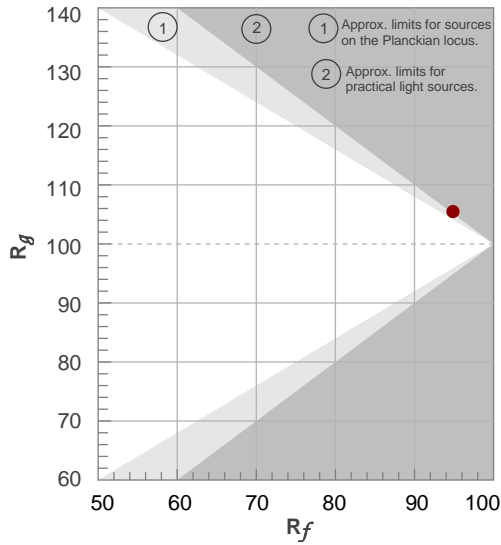
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**$R_g$  105.5**

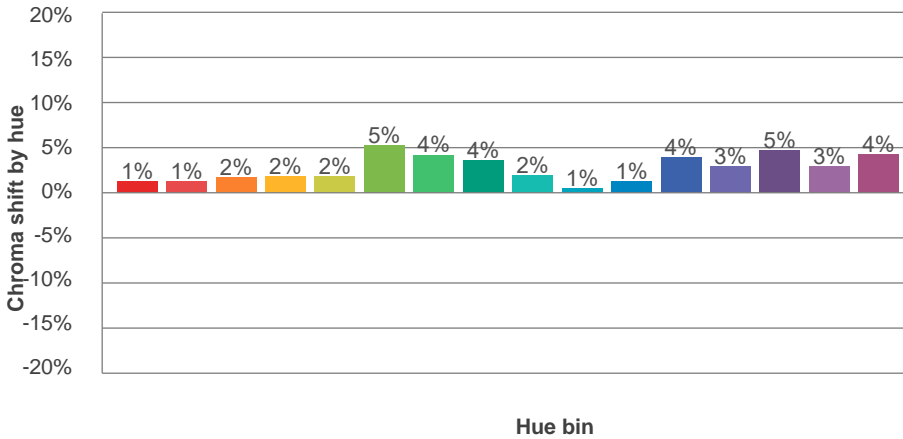
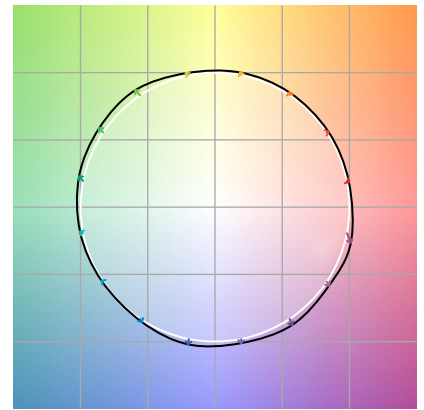
Gammut index  $R_g$



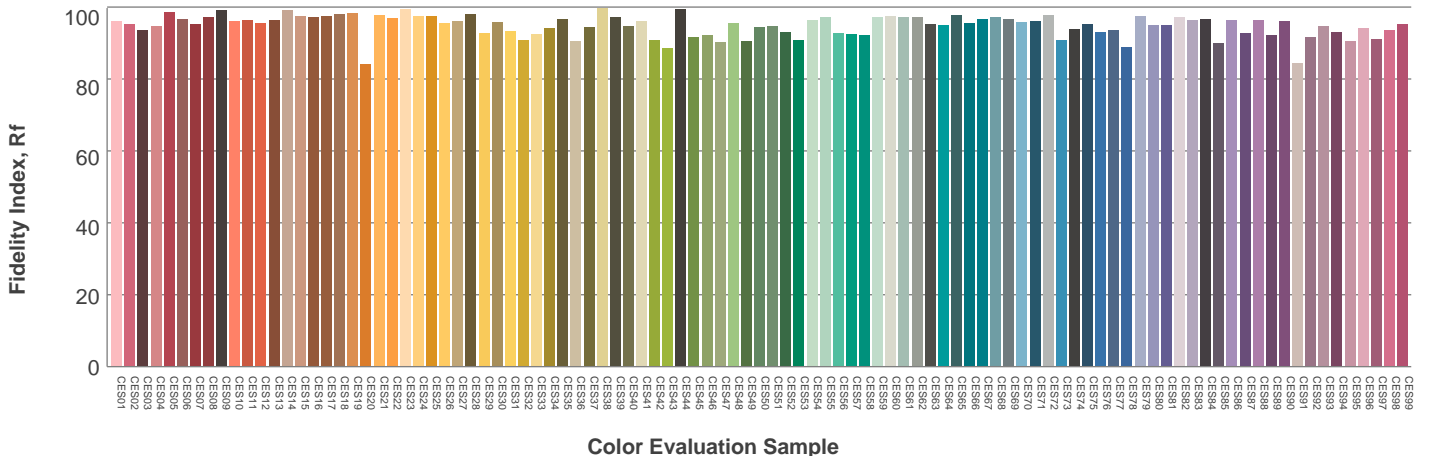
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	0%
3	95	2%	1%
4	96	2%	1%
5	95	2%	2%
6	92	5%	1%
7	93	4%	-1%
8	93	4%	-3%
9	95	2%	-2%
10	97	1%	-1%
11	95	1%	2%
12	93	4%	0%
13	96	3%	-1%
14	94	5%	-1%
15	94	3%	-1%
16	91	4%	-6%



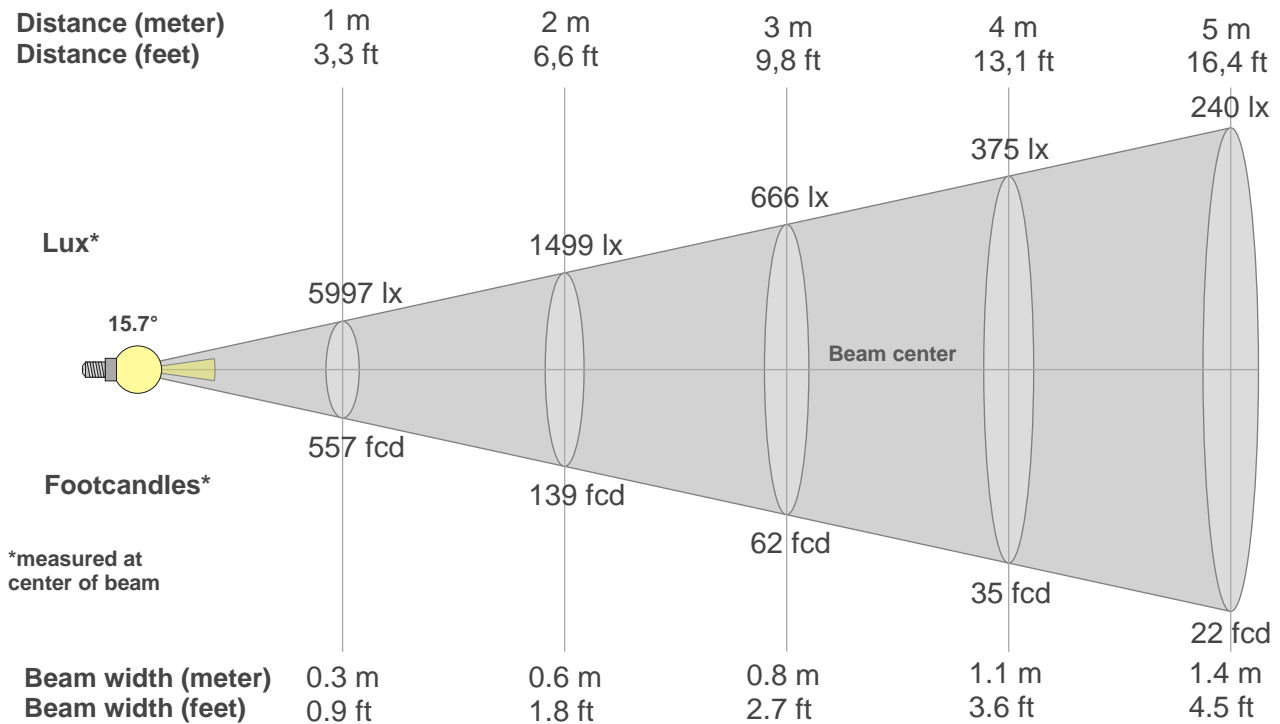
Color vector graphics



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
5997lx	1499lx	666lx	375lx	240lx	167lx	122lx	94lx	74lx	60lx	50lx	42lx	35lx	31lx	27lx	23lx	21lx	19lx	17lx	15lx
557.1fcd	139.3fcd	61.9fcd	34.8fcd	22.3fcd	15.5fcd	11.4fcd	8.7fcd	6.9fcd	5.6fcd	4.6fcd	3.9fcd	3.3fcd	2.8fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

#### 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°
5997	5708	4925	3956	2977	2139	1578	1216	964	792	673	590	526	472	414	347	262	145	40	9
100%	95%	82%	66%	50%	36%	26%	20%	16%	13%	11%	10%	9%	8%	7%	6%	4%	2%	1%	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°
5997	5581	4871	3938	2930	2150	1602	1220	960	786	675	593	528	472	414	345	244	126	28	5
100%	93%	81%	66%	49%	36%	27%	20%	16%	13%	11%	10%	9%	8%	7%	6%	4%	2%	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°
5997	5727	4979	4002	2973	2070	1486	1125	887	728	620	546	492	441	379	281	140	31	10	5
100%	96%	83%	67%	50%	35%	25%	19%	15%	12%	10%	9%	8%	7%	6%	5%	2%	1%	0%	0%

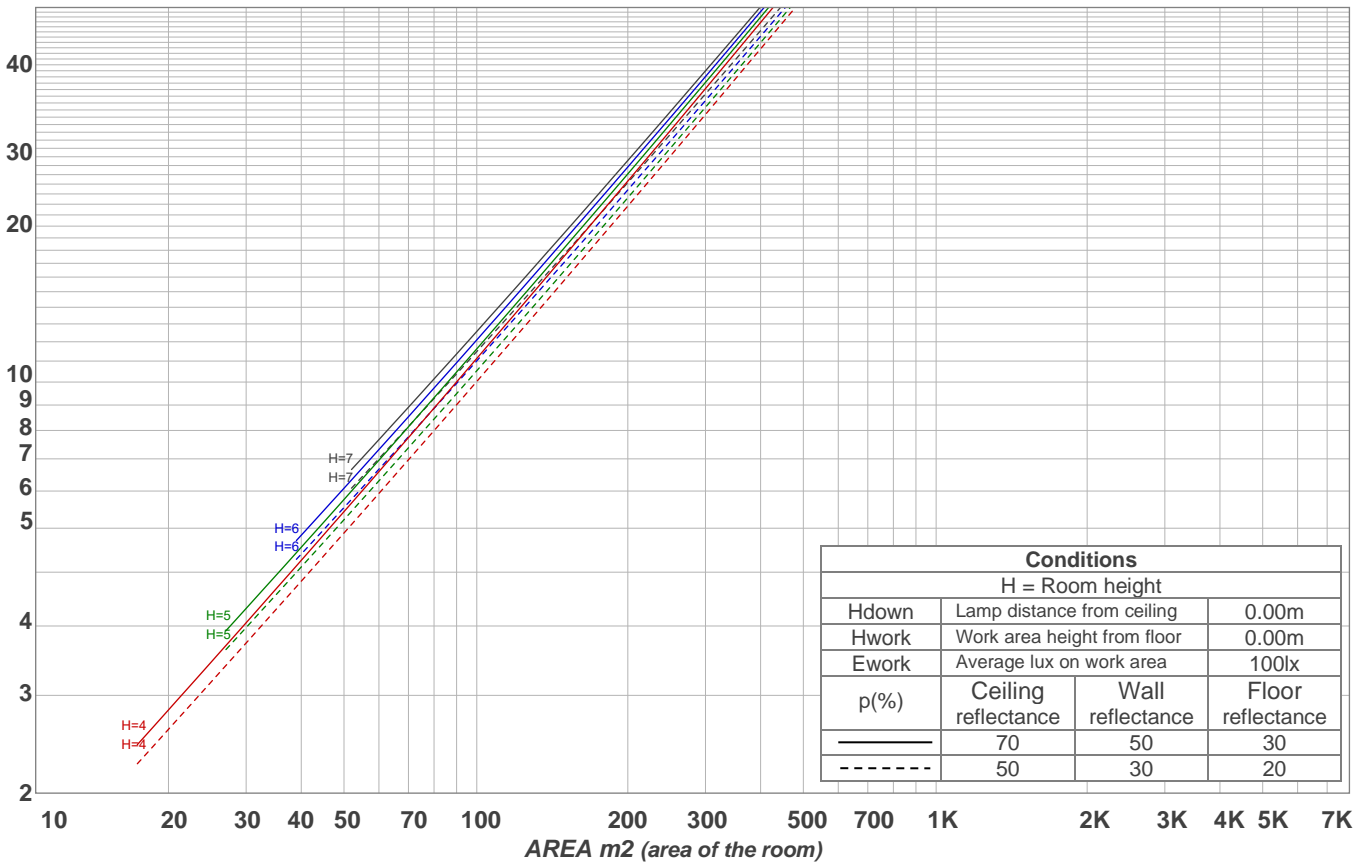
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5997	5665	4896	3924	2928	2064	1488	1147	908	745	637	562	504	453	394	309	168	55	12	4
100%	94%	82%	65%	49%	34%	25%	19%	15%	12%	11%	9%	8%	8%	7%	5%	3%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15.7°	42.4°	65.8°	99.0%	98.6%

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	109	112	110	108	107	106	105	104	103	102	100	99	98	98	96	96	96	
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92	92	92	
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86	86	86	
5	100	94	90	86	99	93	89	86	91	88	85	90	87	85	88	86	84	83	83	83	
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80	80	80	
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	79	77	77	77	
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75	75	75	
9	89	82	78	75	88	81	77	75	81	77	74	80	76	74	79	76	74	73	73	73	
10	86	79	75	72	86	79	75	72	78	75	72	78	74	72	77	74	72	71	71	71	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
343 lm	304 lm	221 lm	54.8 lm	2.76 lm	2.54 lm	2.71 lm	3.24 lm	3.51 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