

Light efficiency:



Output: 1039 lm

Light quality:

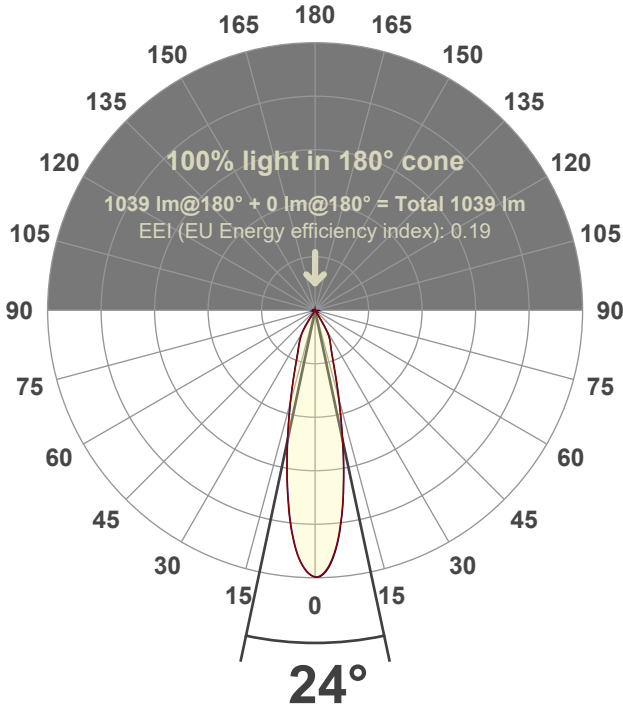


Peak: 4027 cd

Power: 15.0 W



Beam angle



Test number:

GR-O-F-A14-3022-NF-RD-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-3022 24° Optic-No Solite

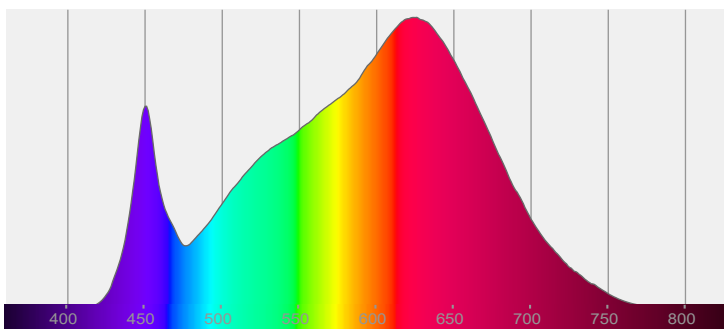
Date and time:

3/24/2022 4:21:00 PM

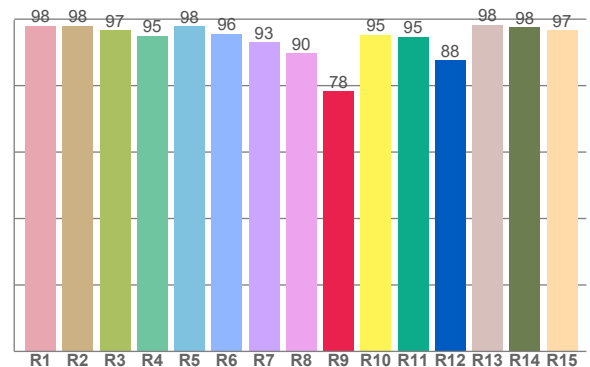
Delivered Lumens

1039

Spectra



CRI: 95.5 (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 divition from black body
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
95.5	78.4	91.8	104.0	90.7	0.422	0.383	0.250	0.340	-0.0067

# R<sub>f</sub> 91.8

Fidelity index R<sub>f</sub>

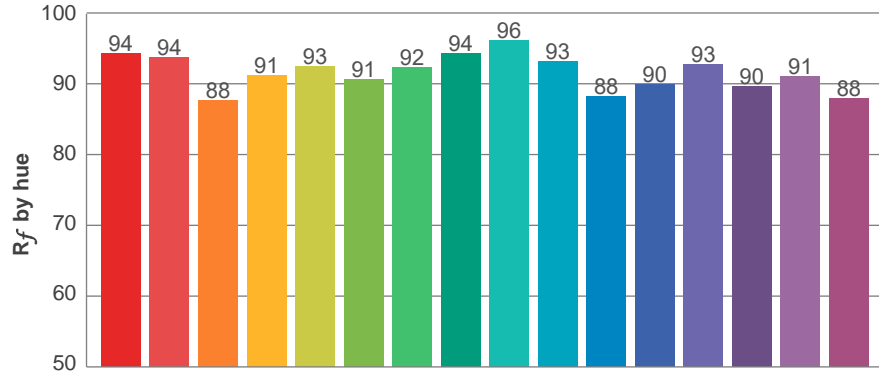
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# R<sub>g</sub> 104.0

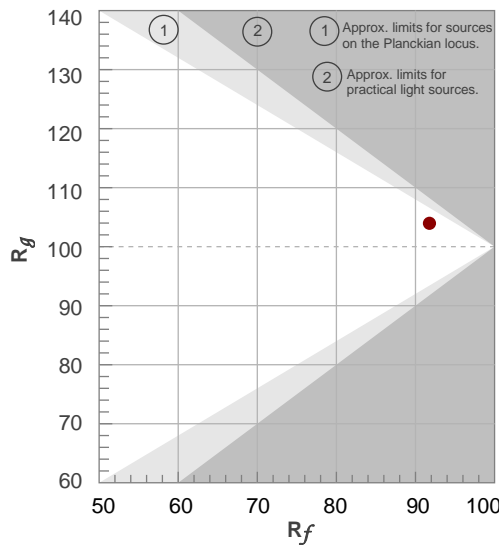
Gammut index R<sub>g</sub>

TM30: 91.8

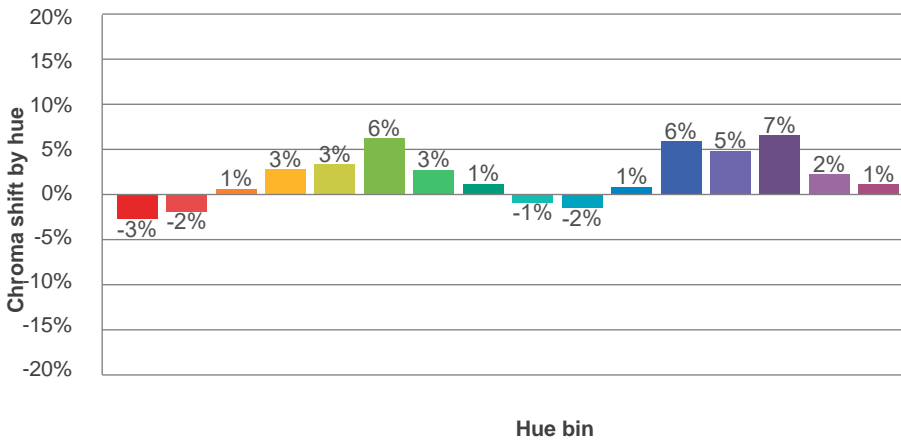
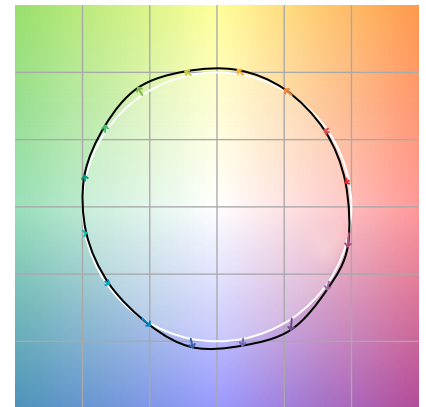
TM-30Color



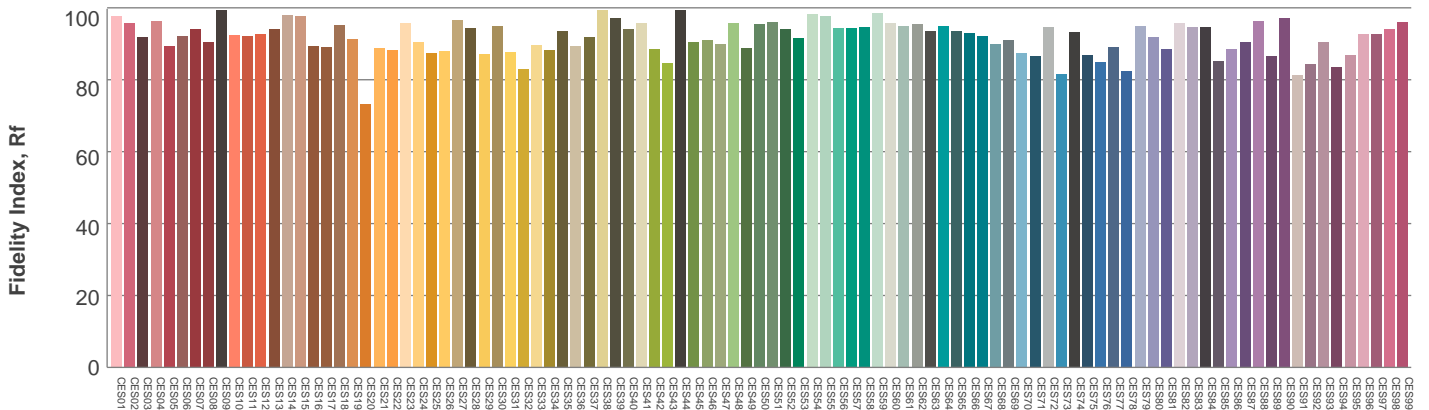
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	92	3%	-4%
8	94	1%	-4%
9	96	-1%	0%
10	93	-2%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	7%	-5%
15	91	2%	-6%
16	88	1%	-10%



Color vector graphics

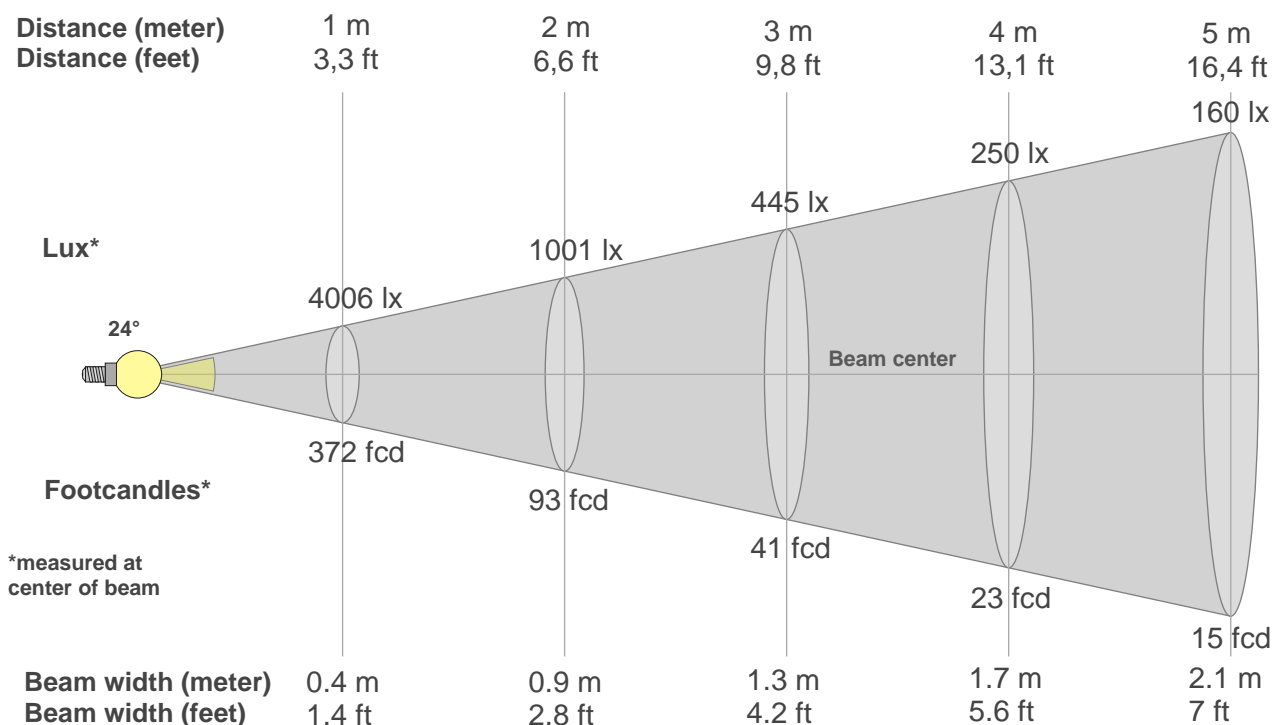


Color distortion



Color Evaluation Sample

### 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
4006lx	1001lx	445lx	250lx	160lx	111lx	82lx	63lx	49lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
372.2fcd	93fcd	41.4fcd	23.3fcd	14.9fcd	10.3fcd	7.6fcd	5.8fcd	4.6fcd	3.7fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd

#### 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°
4006	3938	3733	3409	2984	2495	2021	1606	1263	990	797	674	587	515	445	363	205	76	15	7
100%	98%	93%	85%	75%	62%	50%	40%	32%	25%	20%	17%	15%	13%	11%	9%	5%	2%	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°
4006	3950	3756	3436	2993	2492	2005	1575	1224	956	781	662	579	515	452	326	163	53	8	6
100%	99%	94%	86%	75%	62%	50%	39%	31%	24%	20%	17%	14%	13%	11%	8%	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°
4006	3936	3709	3359	2929	2467	2020	1629	1309	1051	852	708	613	544	475	395	286	139	30	8
100%	98%	93%	84%	73%	62%	50%	41%	33%	26%	21%	18%	15%	14%	12%	10%	7%	3%	1%	0%

#### Intensities in 270° c-plane

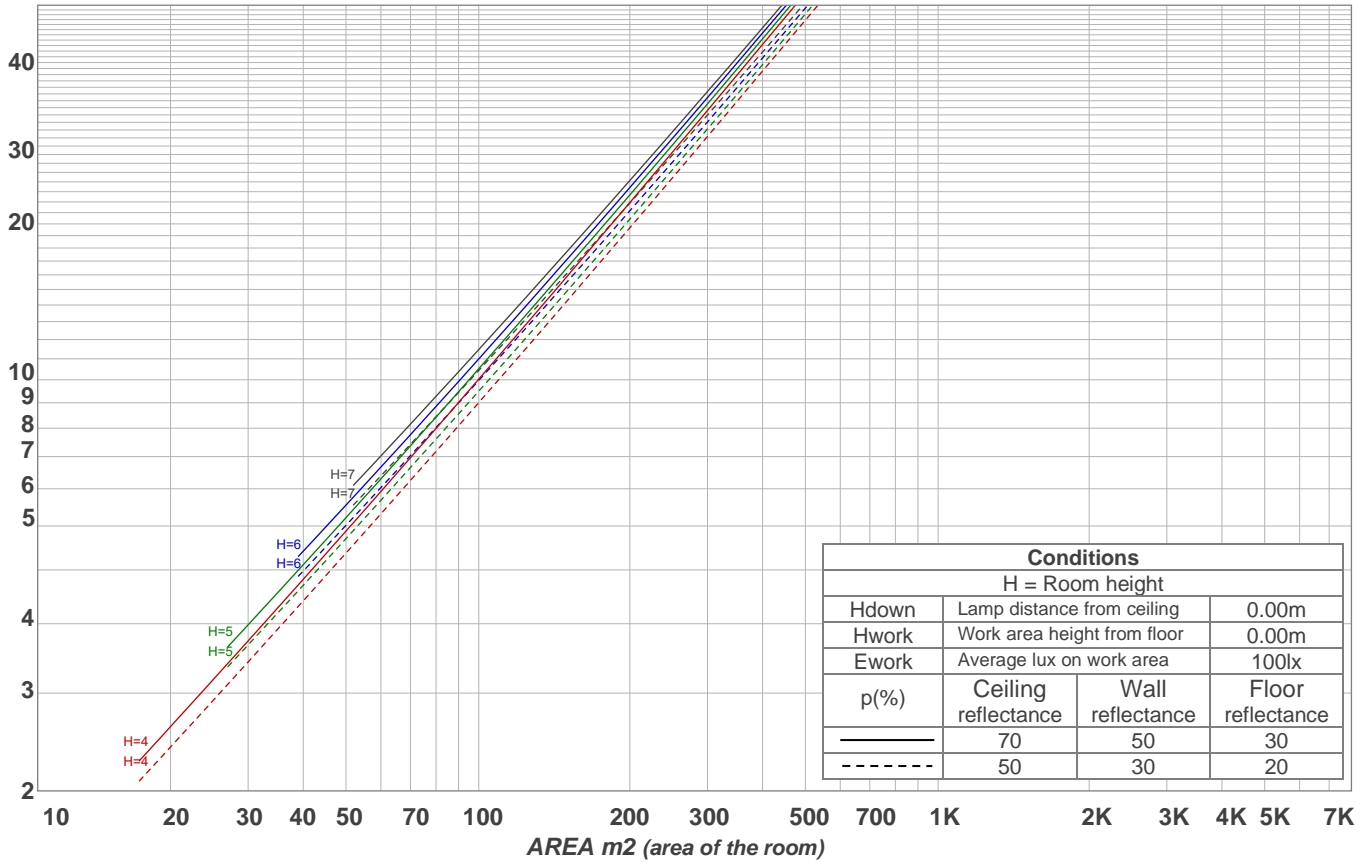
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4006	3916	3711	3343	2905	2446	2007	1619	1303	1056	865	726	628	552	477	397	298	174	38	10
100%	98%	93%	83%	73%	61%	50%	40%	33%	26%	22%	18%	16%	14%	12%	10%	7%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
<b>24°</b>	<b>58.7°</b>	<b>68°</b>	<b>99.4%</b>	<b>99.2%</b>

[www.graffitilighting.com](http://www.graffitilighting.com) As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.

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	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	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	89	85	98	92	88	85	90	87	84	89	86	83	88	85	83	82	82	82	
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79	79	79	
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	
8	90	83	78	75	89	82	78	75	81	78	75	81	77	75	80	77	74	73	73	73	
9	87	80	76	73	86	80	75	72	79	75	72	78	75	72	77	74	72	71	71	71	
10	85	77	73	70	84	77	73	70	76	72	70	76	72	70	75	72	69	69	69	69	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
305 lm	400 lm	260 lm	64.3 lm	1.75 lm	1.45 lm	1.54 lm	1.98 lm	2.59 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