

Light efficiency:



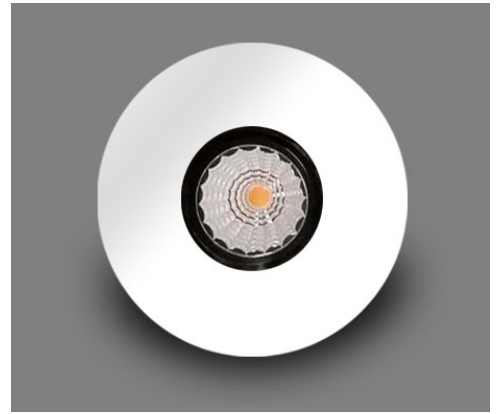
Output: 736 lm

Light quality:

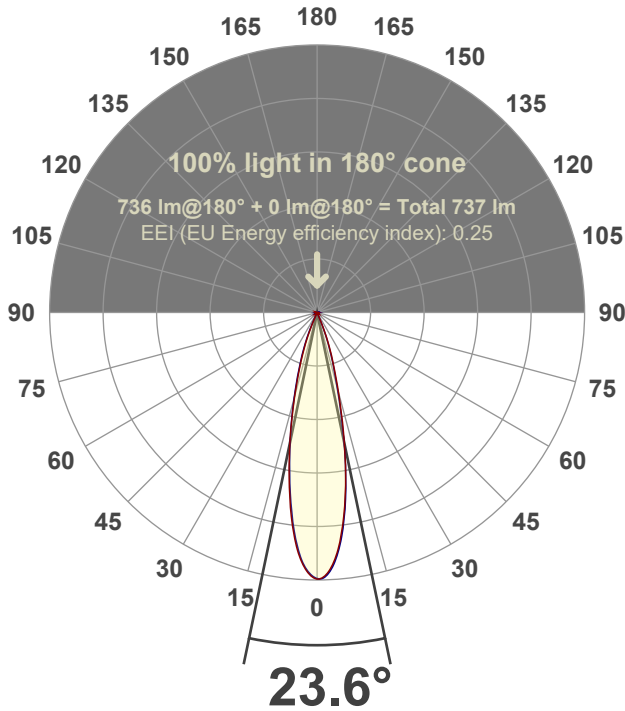


Peak: 4027 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-3022 24° Optic

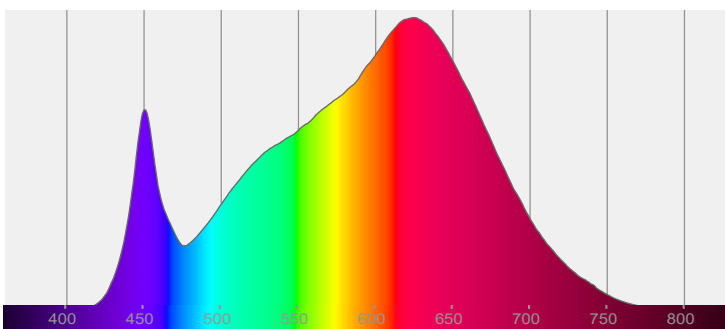
Date and time:

3/24/2022 4:26:44 PM

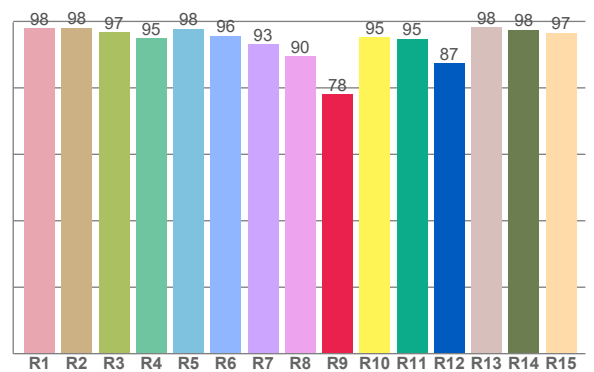
Delivered Lumens

736

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 deviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	95.5	78.0	91.8	103.8	90.8	0.422	0.383	0.250	0.340	-0.0064

**$R_f$  91.8**

Fidelity index  $R_f$

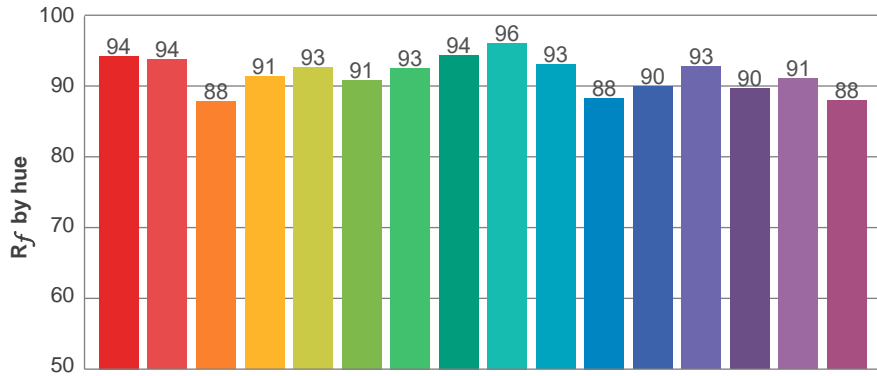
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**$R_g$  103.8**

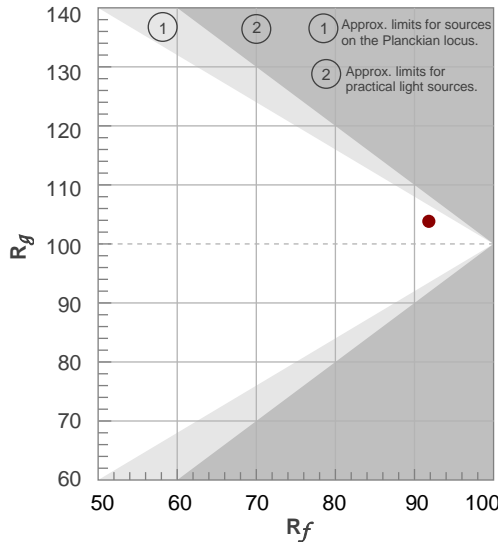
Gammut index  $R_g$

TM30: 91.8

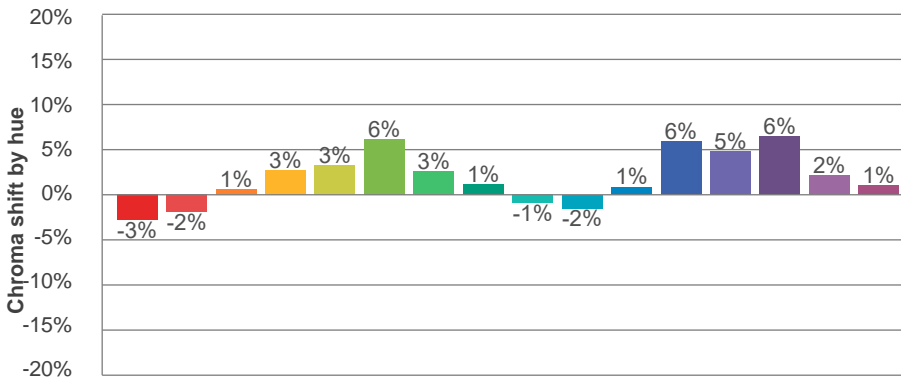
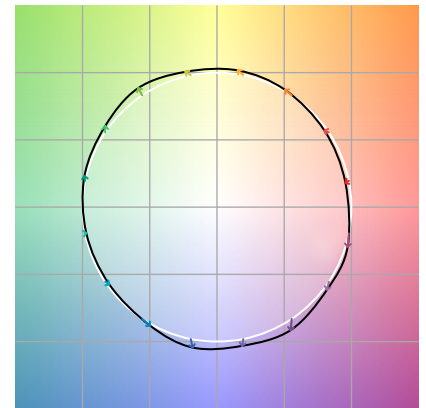
TM-30Color



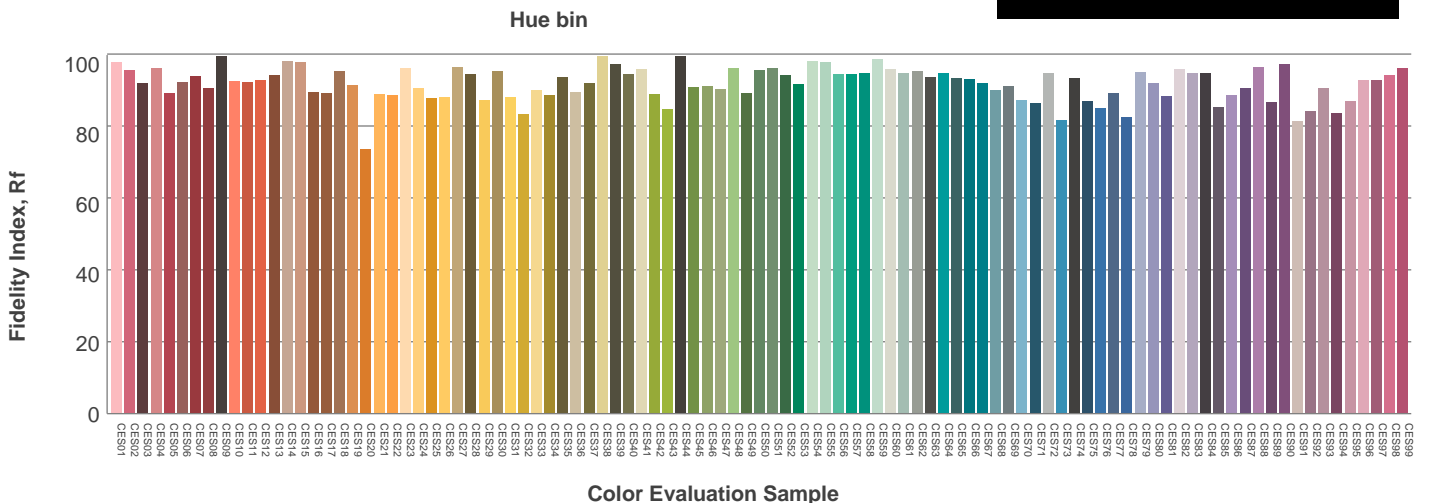
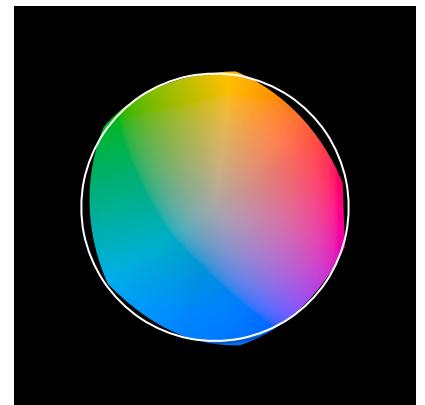
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-2%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-6%
16	88	1%	-10%



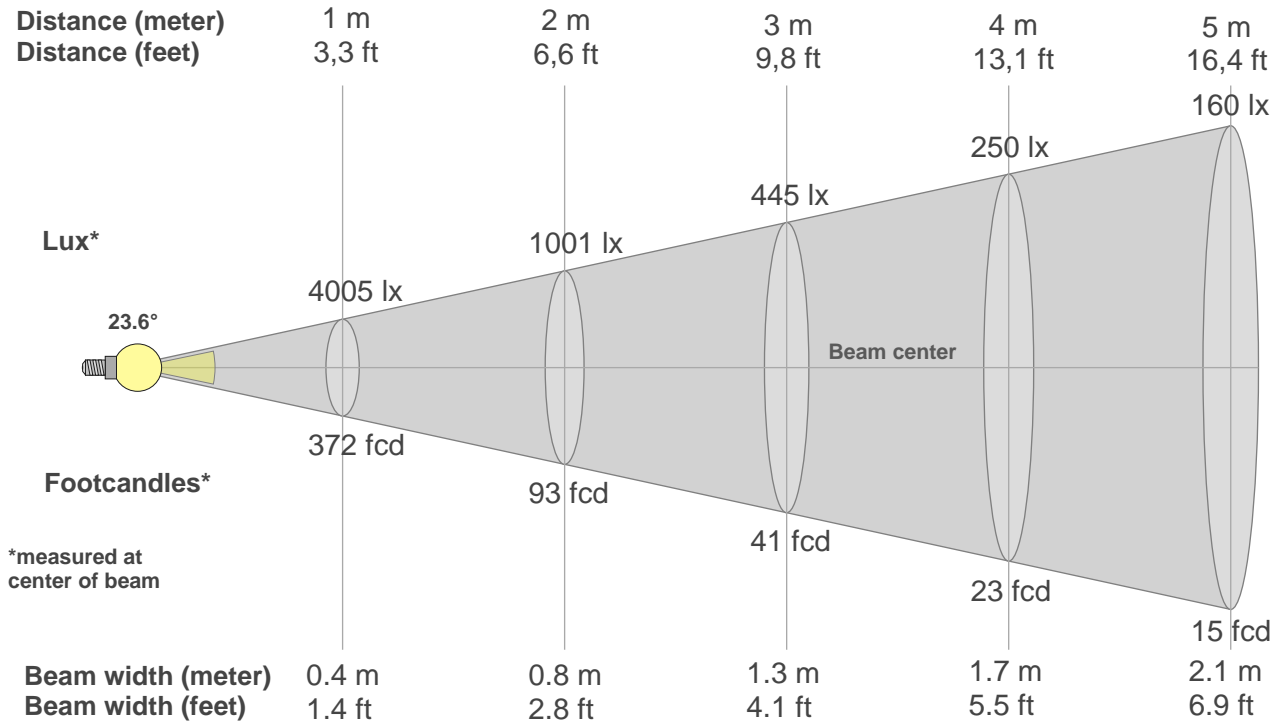
Color vector graphics



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
4005lx	1001lx	445lx	250lx	160lx	111lx	82lx	63lx	49lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
372.1fcd	93fcd	41.3fcd	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°
4005	3940	3730	3402	2976	2490	1971	1488	1083	767	521	294	115	31	10	7	8	6	6	6
100%	98%	93%	85%	74%	62%	49%	37%	27%	19%	13%	7%	3%	1%	0%	0%	0%	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°
4005	3958	3778	3451	3008	2493	1945	1417	997	710	466	248	80	13	10	8	7	6	6	5
100%	99%	94%	86%	75%	62%	49%	35%	25%	18%	12%	6%	2%	0%	0%	0%	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°
4005	3923	3693	3349	2919	2444	1975	1531	1149	835	577	354	154	49	12	9	7	6	5	4
100%	98%	92%	84%	73%	61%	49%	38%	29%	21%	14%	9%	4%	1%	0%	0%	0%	0%	0%	0%

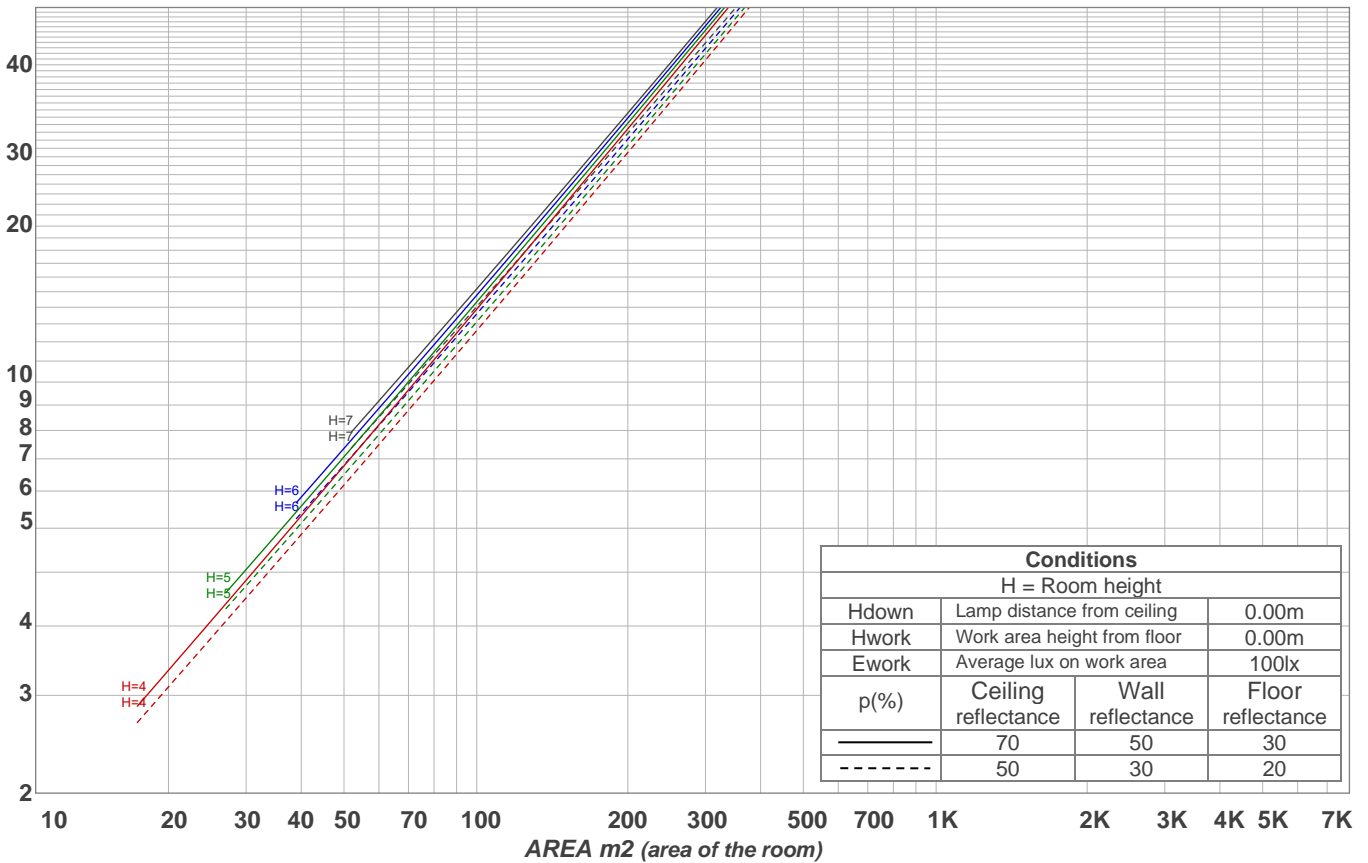
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4005	3892	3669	3316	2863	2400	1959	1553	1183	877	634	411	207	49	13	9	8	6	5	3
100%	97%	92%	83%	71%	60%	49%	39%	30%	22%	16%	10%	5%	1%	0%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.6°	42.6°	48.8°	99.1%	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	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	97	
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94	94	94	
3	109	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92	92	92	
4	106	101	97	94	104	100	96	94	98	95	93	96	93	92	94	92	91	89	89	89	
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87	87	87	
6	100	95	91	88	99	94	90	88	93	90	87	91	89	87	90	88	86	85	85	85	
7	98	92	88	86	97	92	88	85	90	87	85	89	87	85	89	86	84	83	83	83	
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	81	81	
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	80	80	
10	92	86	82	80	91	85	82	79	85	81	79	84	81	79	83	81	79	78	78	78	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
304 lm	357 lm	62.5 lm	3.61 lm	1.53 lm	1.43 lm	1.63 lm	2.08 lm	2.68 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