

Light efficiency:



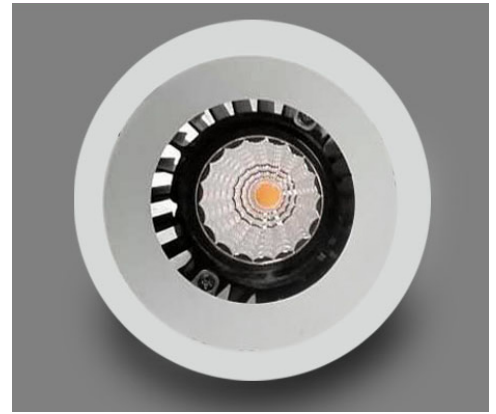
Output: 1022 lm

Light quality:

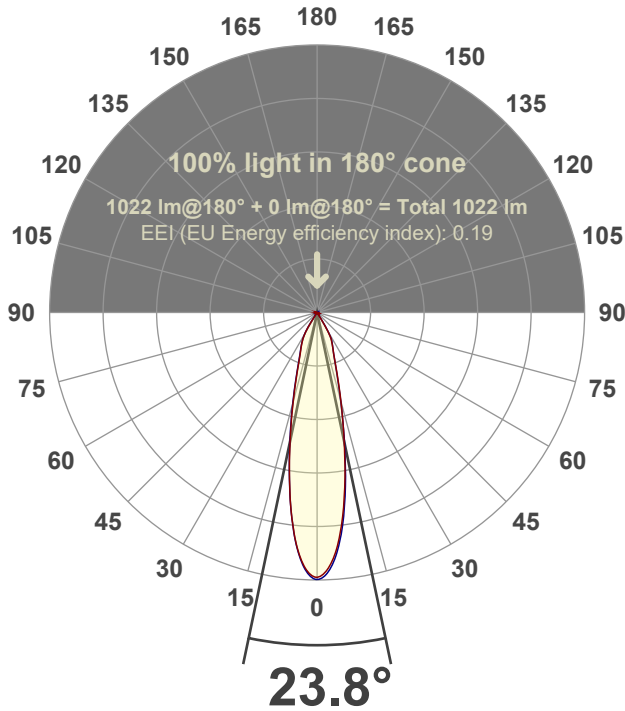


Peak: 4000 cd

Power: 15.0 W



Beam angle



Test number:

GR-O-F-A14-2722-NF-RD-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-2722 24° Optic

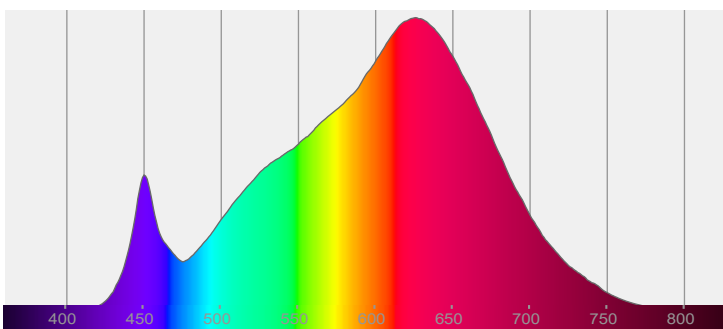
Date and time:

3/24/2022 7:20:56 PM

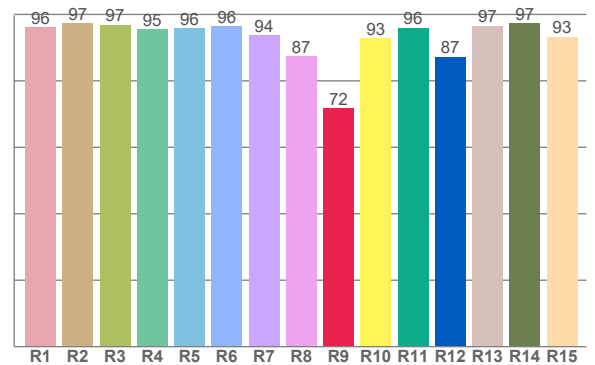
Delivered Lumens

1022

Spectra



CRI: 94.9 (R1-R8)



Color parameters

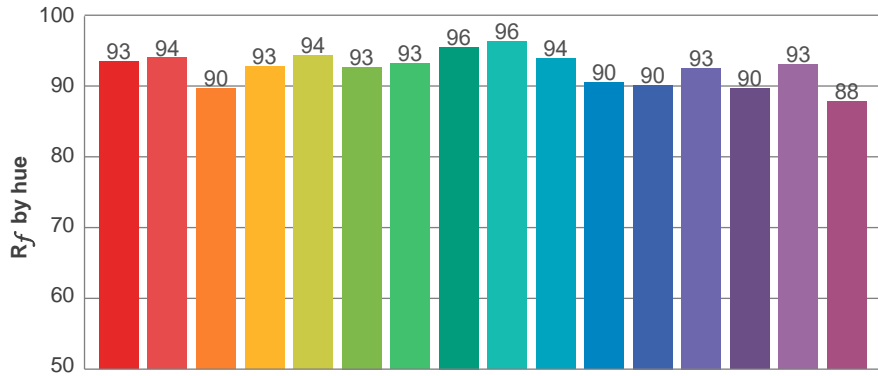
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	94.9	71.7	92.5	102.1	91.4	0.446	0.401	0.258	0.348	-0.0022

**$R_f$  92.5**  
Fidelity index  $R_f$

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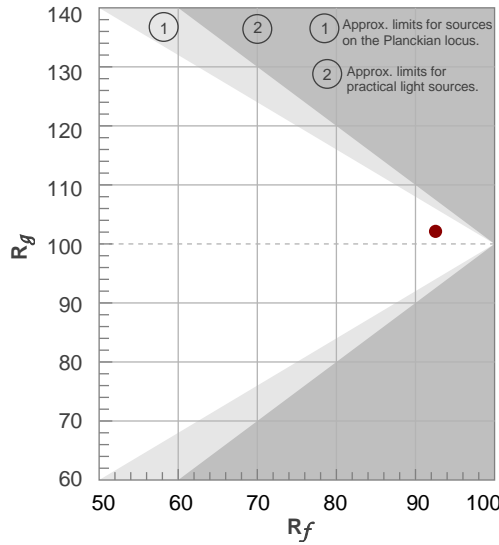
**$R_g$  102.1**  
Gammut index  $R_g$

TM30: 92.5

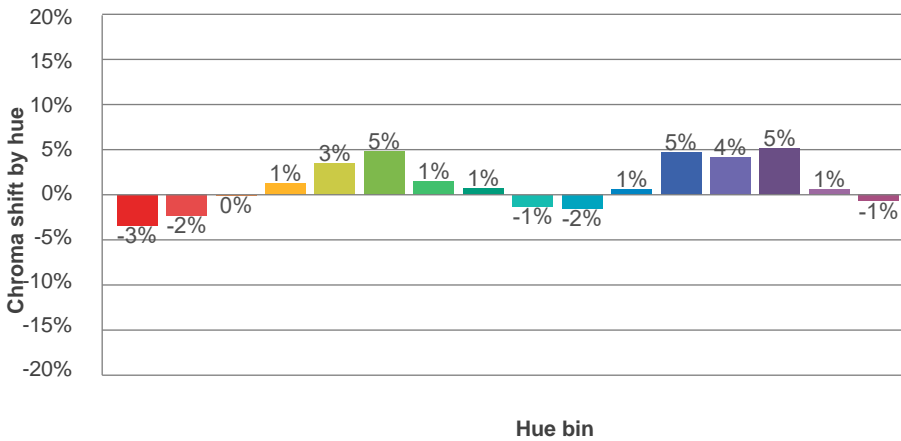
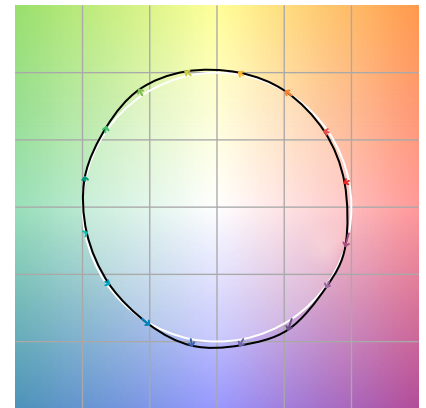


TM-30Color

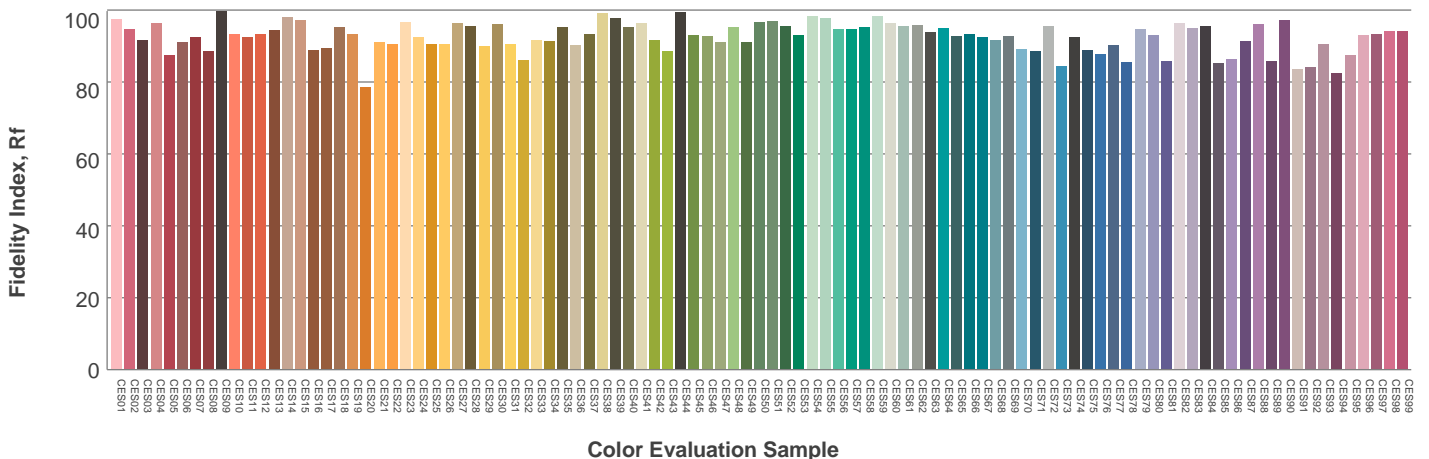
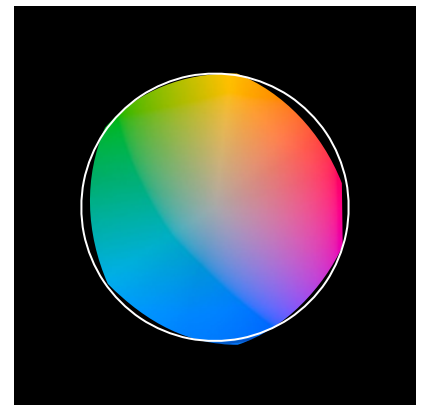
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	2%
3	90	0%	5%
4	93	1%	3%
5	94	3%	3%
6	93	5%	0%
7	93	1%	-4%
8	96	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	90	1%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



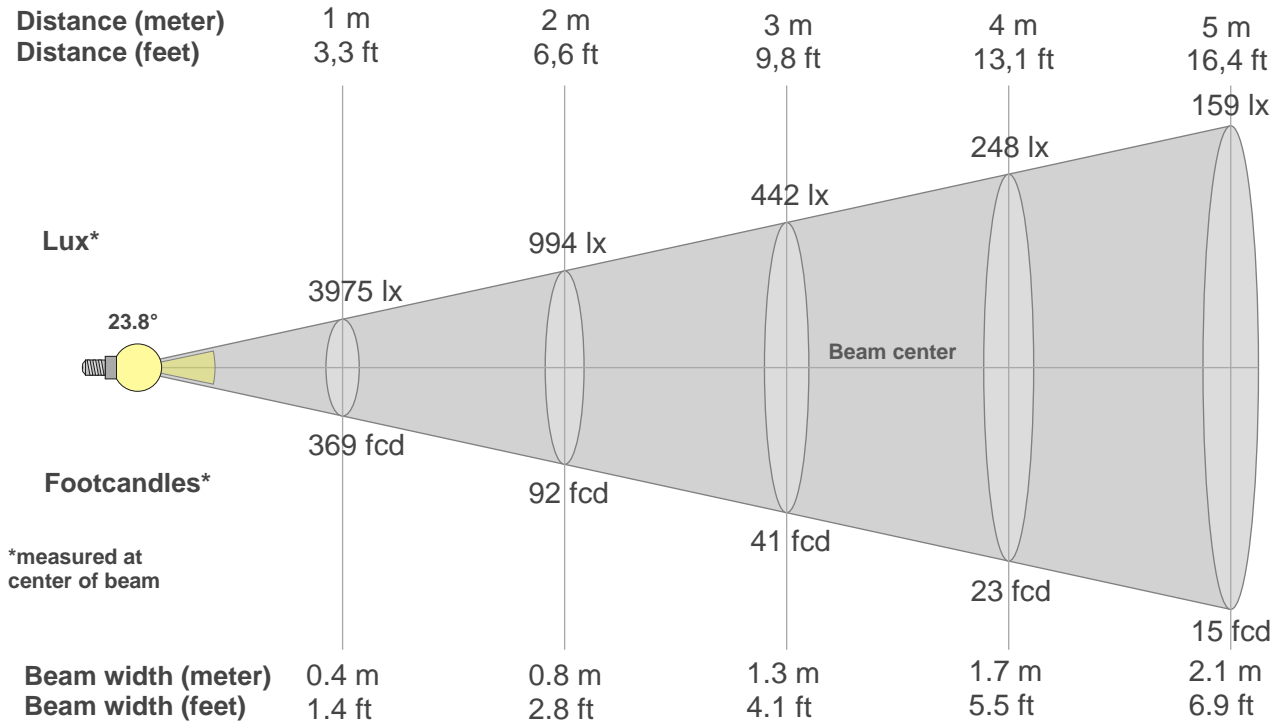
Color vector graphics



Color distortion



### Beam details



#### 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
3975lx	994lx	442lx	248lx	159lx	110lx	81lx	62lx	49lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
369.3fcd	92.3fcd	41fcd	23.1fcd	14.8fcd	10.3fcd	7.5fcd	5.8fcd	4.6fcd	3.7fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	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°
3975	3874	3648	3309	2887	2421	1956	1571	1250	995	803	670	585	515	443	340	190	48	14	6
100%	97%	92%	83%	73%	61%	49%	40%	31%	25%	20%	17%	15%	13%	11%	9%	5%	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°
3975	3929	3710	3371	2944	2464	1979	1554	1225	975	793	667	584	521	453	342	193	46	14	6
100%	99%	93%	85%	74%	62%	50%	39%	31%	25%	20%	17%	15%	13%	11%	9%	5%	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°
3975	3875	3651	3310	2880	2401	1957	1575	1259	1008	817	691	605	533	463	382	271	130	42	7
100%	97%	92%	83%	72%	60%	49%	40%	32%	25%	21%	17%	15%	13%	12%	10%	7%	3%	1%	0%

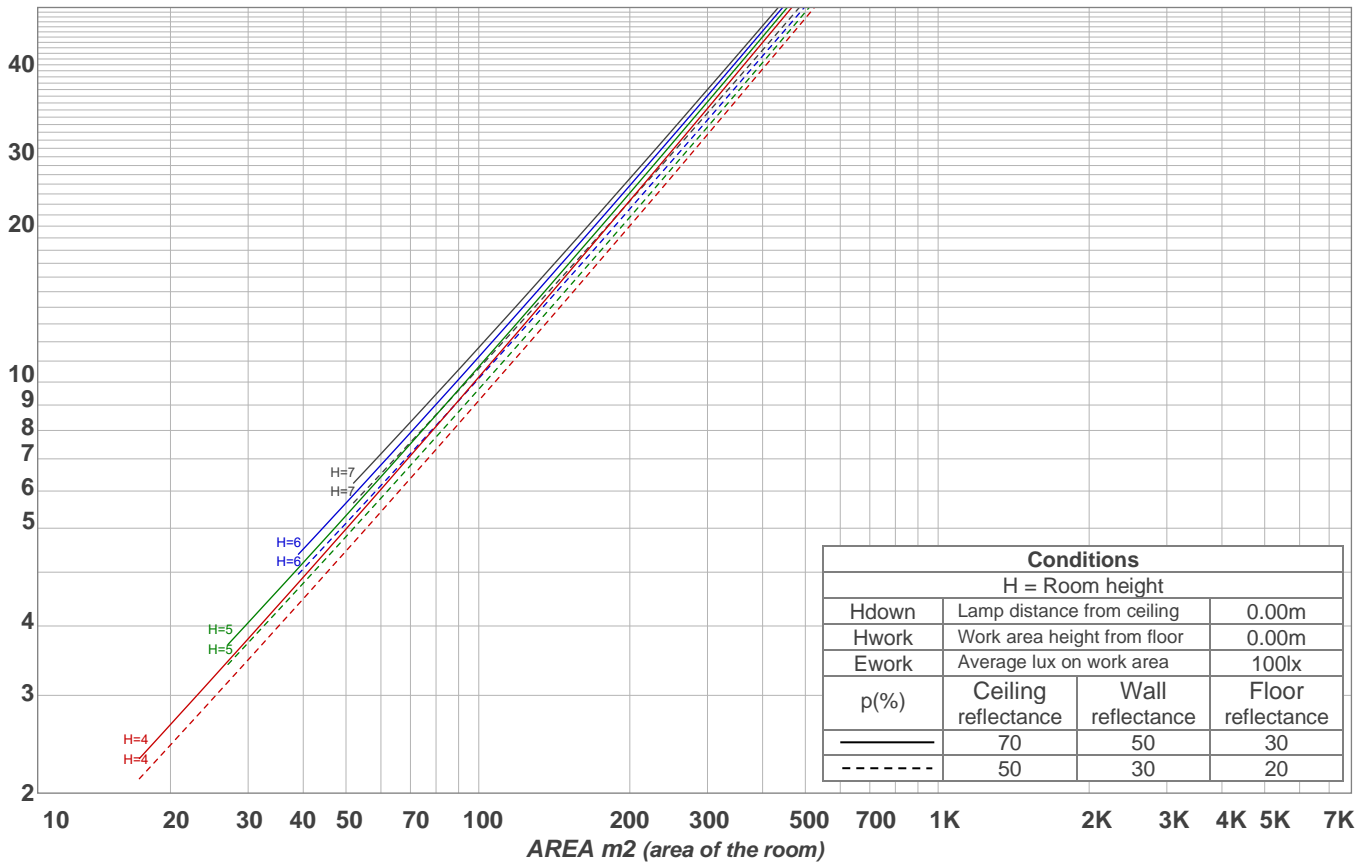
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3975	3895	3667	3320	2881	2410	1979	1600	1280	1024	835	708	615	539	465	387	273	130	38	7
100%	98%	92%	84%	72%	61%	50%	40%	32%	26%	21%	18%	15%	14%	12%	10%	7%	3%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.8°	58.9°	67.7°	99.3%	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	102	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	82	82	82	
6	96	89	85	81	95	89	84	81	87	83	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	80	77	74	80	77	74	73	73	73	
9	87	80	76	72	86	80	75	72	79	75	72	78	74	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	68	68	68	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
299 lm	393 lm	259 lm	60.4 lm	1.86 lm	1.87 lm	1.90 lm	2.23 lm	2.60 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