

Light efficiency:



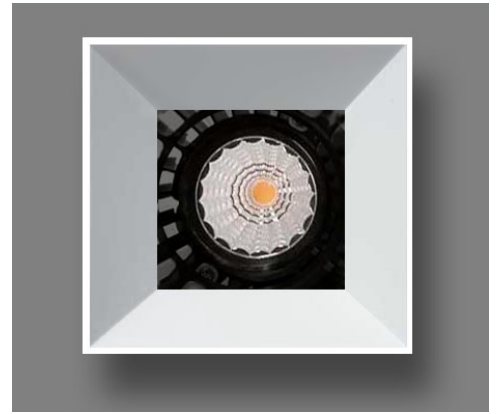
Output: 1006 lm

Light quality:

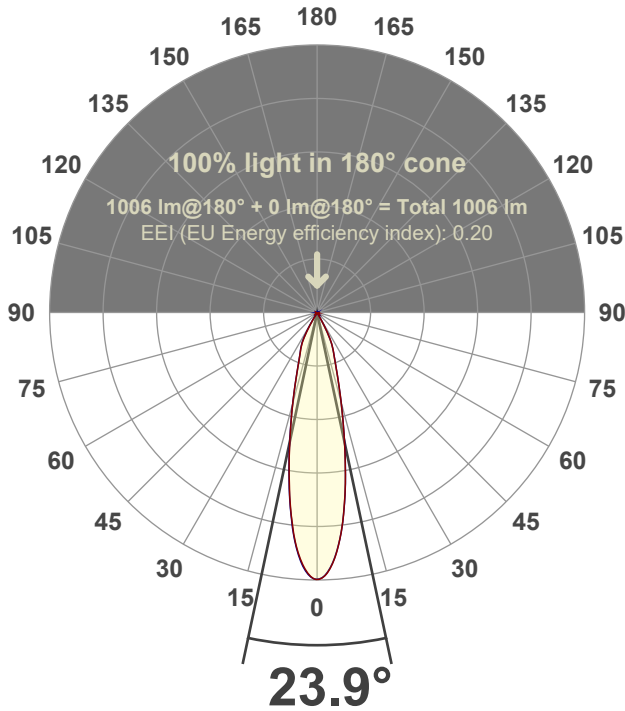


Peak: 4195 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Square Fixed Downlight-A14-3022 124° Optic

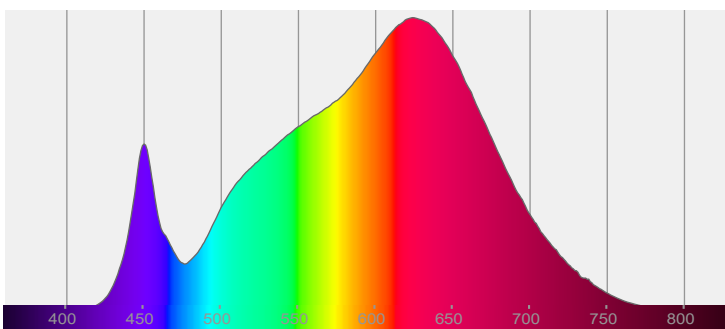
Date and time:

6/30/2022 4:23:59 PM

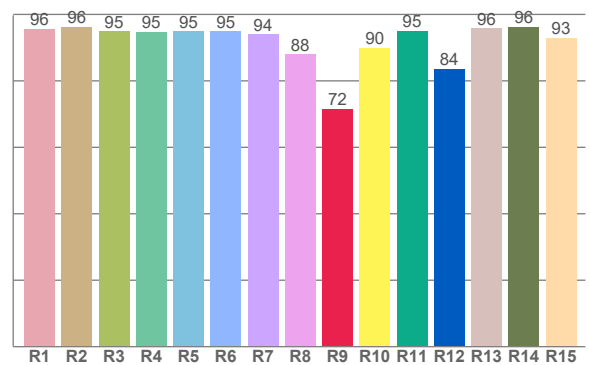
Delivered Lumens

1006

Spectra



CRI: 94.2 (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
	94.2	71.6	91.7	102.6	91.0	0.435	0.398	0.252	0.346	-0.0020

**$R_f$  91.7**

Fidelity index  $R_f$

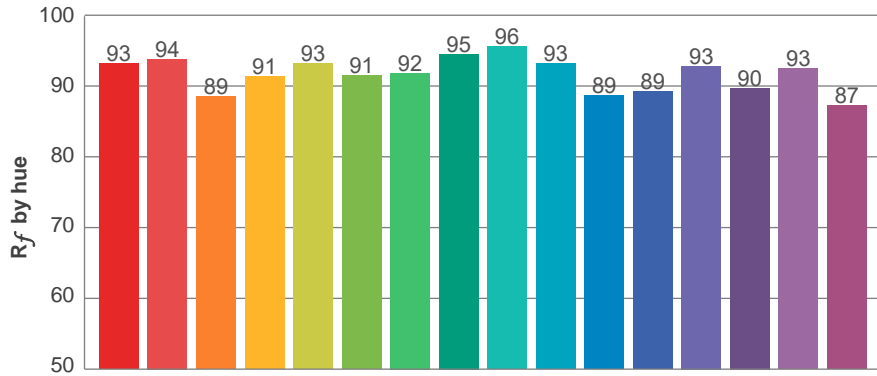
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**$R_g$  102.6**

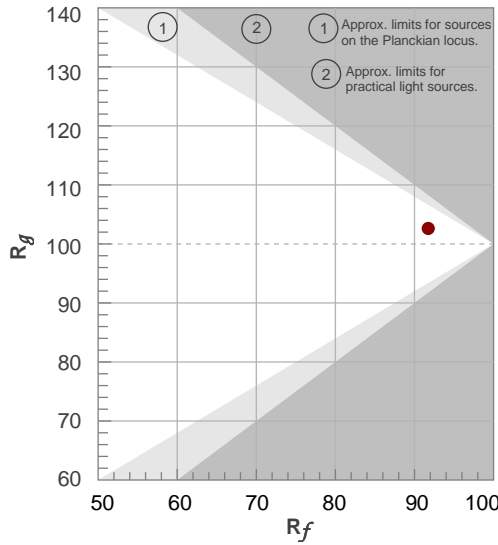
Gammut index  $R_g$

TM30: 91.7

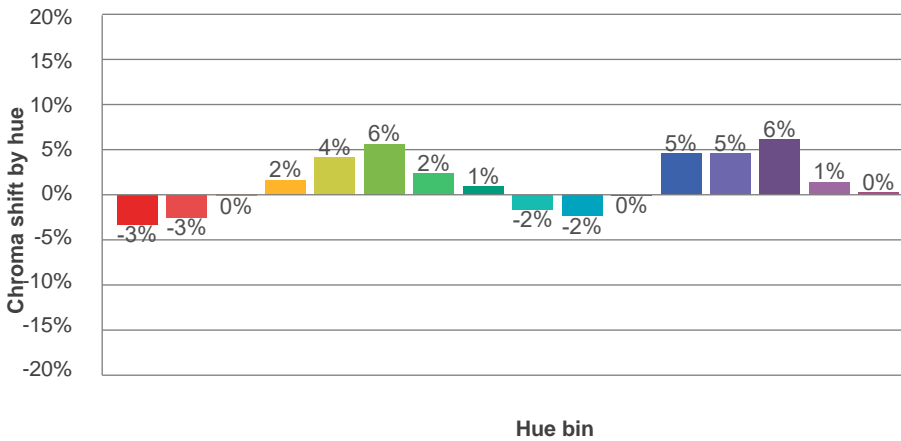
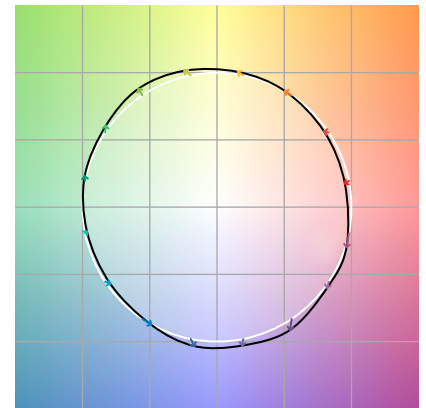
TM-30Color



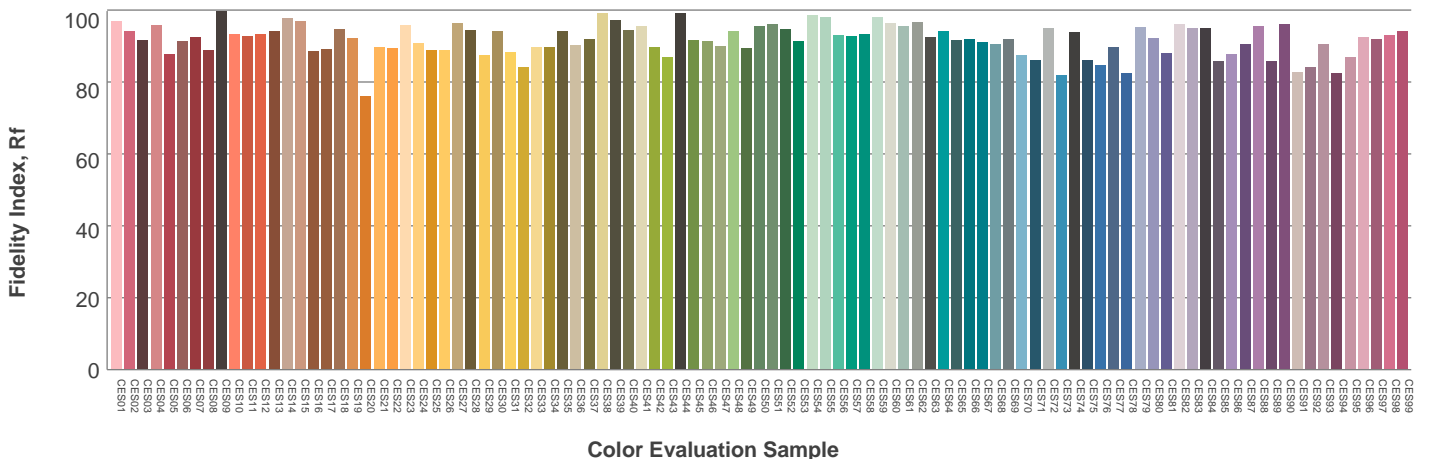
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	91	6%	0%
7	92	2%	-5%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



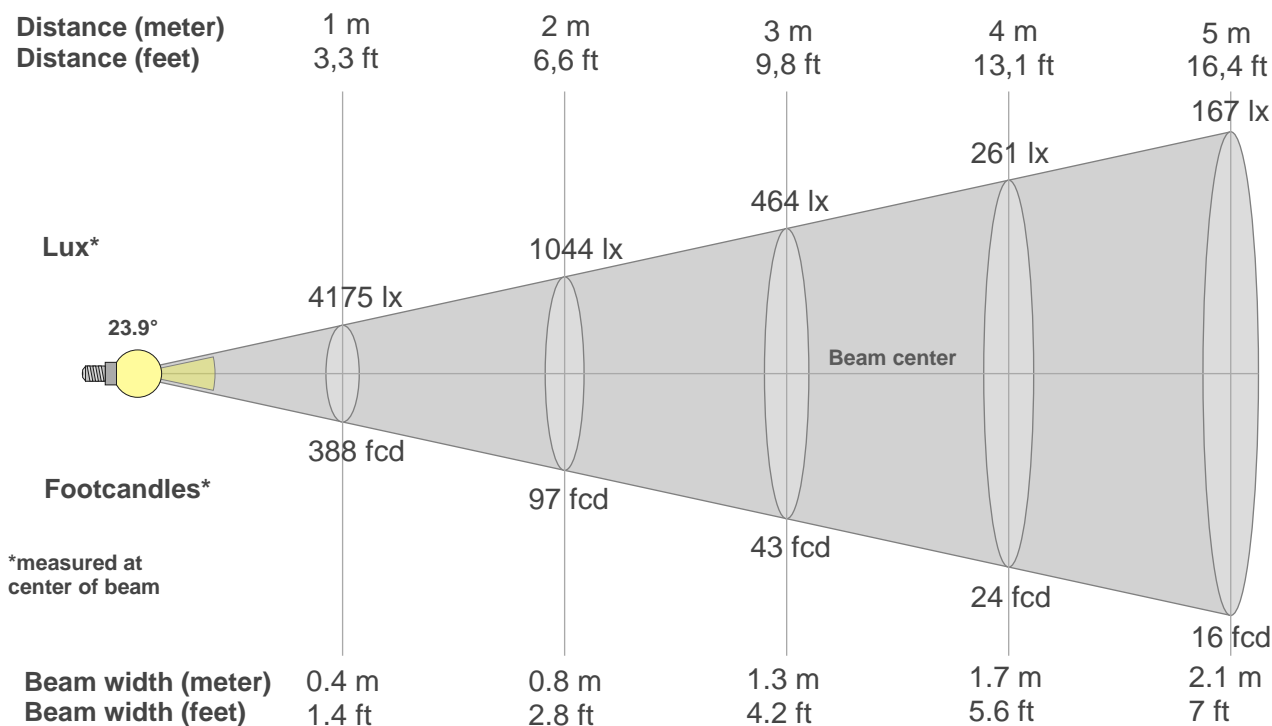
Color vector graphics



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
4175lx	1044lx	464lx	261lx	167lx	116lx	85lx	65lx	52lx	42lx	35lx	29lx	25lx	21lx	19lx	16lx	14lx	13lx	12lx	10lx
387.8fcd	97fcd	43.1fcd	24.2fcd	15.5fcd	10.8fcd	7.9fcd	6.1fcd	4.8fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	1fcd

#### 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°
4175	4120	3878	3518	3072	2577	2082	1659	1319	1051	851	709	607	483	318	153	36	9	8	5
100%	99%	93%	84%	74%	62%	50%	40%	32%	25%	20%	17%	15%	12%	8%	4%	1%	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°
4175	4096	3879	3521	3072	2581	2093	1654	1303	1043	850	707	593	470	288	124	32	12	9	6
100%	98%	93%	84%	74%	62%	50%	40%	31%	25%	20%	17%	14%	11%	7%	3%	1%	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°
4175	4082	3849	3499	3043	2545	2081	1679	1342	1068	872	739	638	539	414	237	86	24	9	7
100%	98%	92%	84%	73%	61%	50%	40%	32%	26%	21%	18%	15%	13%	10%	6%	2%	1%	0%	0%

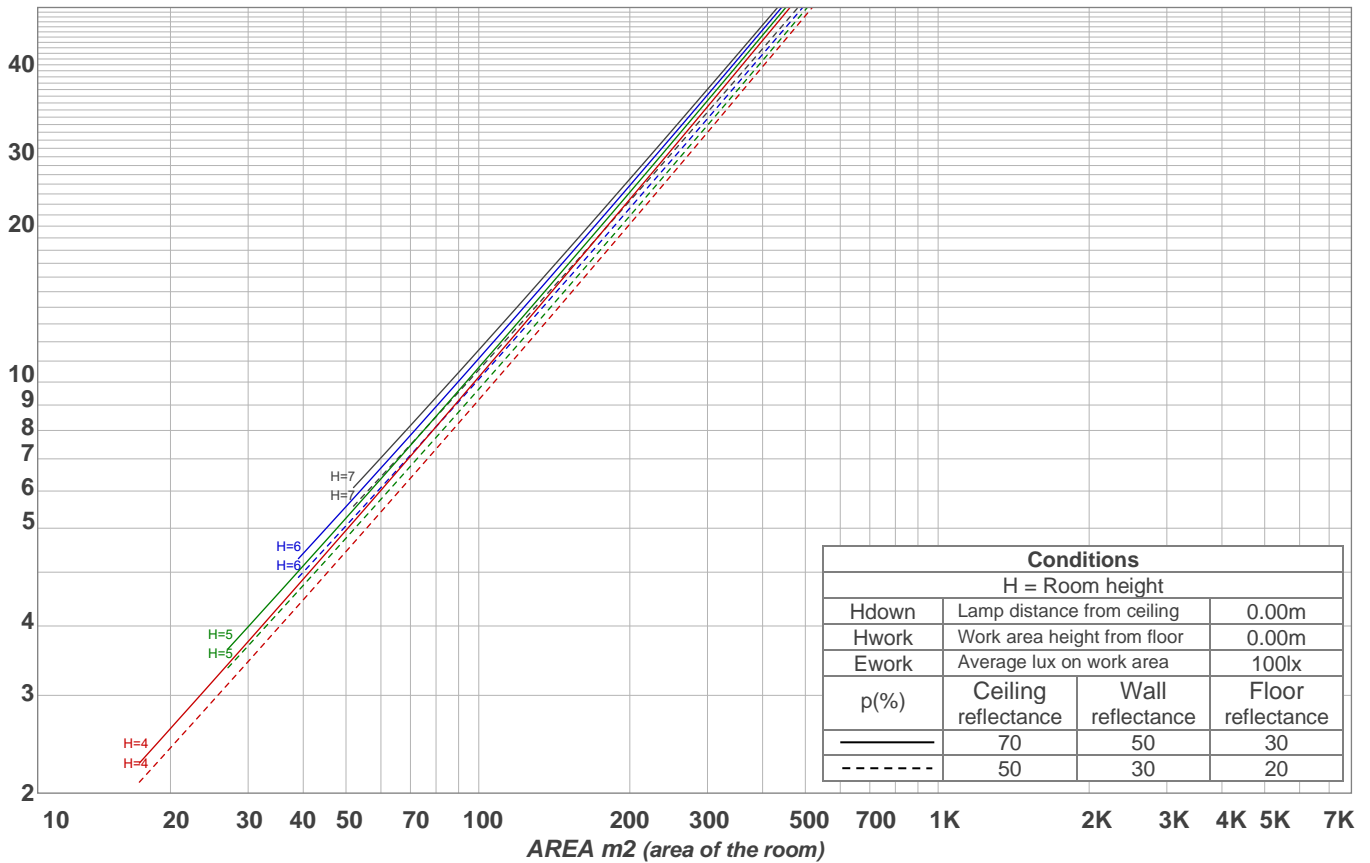
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4175	4094	3876	3527	3054	2562	2093	1677	1330	1065	875	741	643	557	442	264	110	25	8	6
100%	98%	93%	84%	73%	61%	50%	40%	32%	26%	21%	18%	15%	13%	11%	6%	3%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
<b>23.9°</b>	<b>54.9°</b>	<b>62.4°</b>	<b>99.5%</b>	<b>99.2%</b>

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	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96	96	96	
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93	93	93	
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89	89	89	
4	104	98	94	91	102	97	93	90	95	92	89	93	91	88	91	89	87	86	86	86	
5	100	94	90	87	99	93	89	87	92	88	86	90	87	85	89	86	84	83	83	83	
6	97	91	87	83	96	90	86	83	89	85	83	88	84	82	86	84	82	80	80	80	
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78	
8	92	85	80	78	91	84	80	77	83	80	77	82	79	77	82	79	77	75	75	75	
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73	
10	87	80	75	73	86	79	75	73	79	75	72	78	75	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°
317 lm	416 lm	245 lm	19.7 lm	1.91 lm	1.60 lm	1.48 lm	1.86 lm	2.01 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