

Light efficiency:



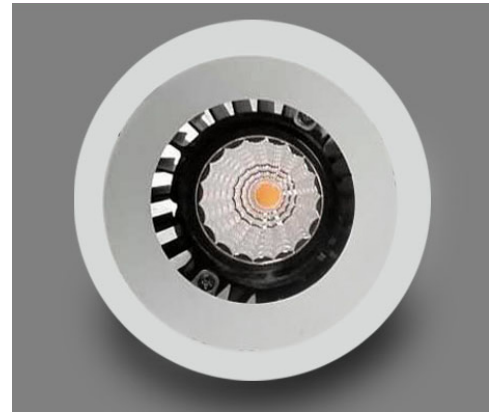
Output: 1002 lm

Light quality:

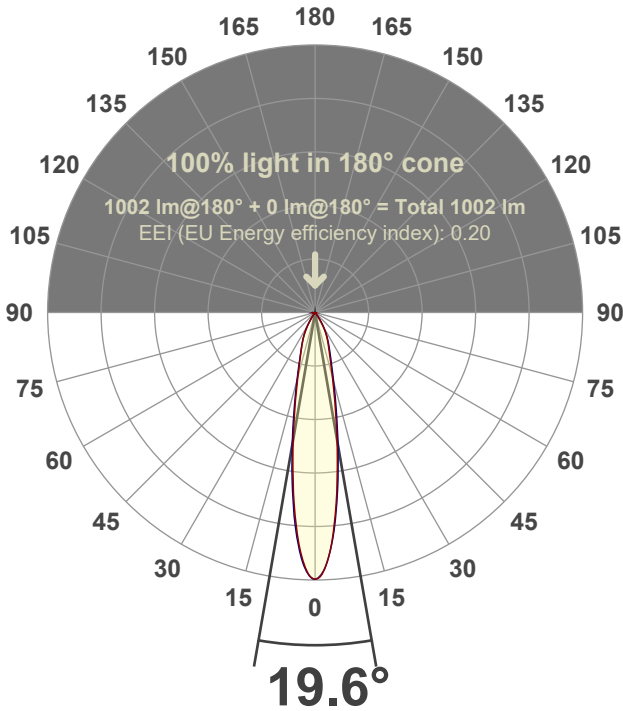


Peak: 4659 cd

Power: 15.0 W



Beam angle



Test number:

GR-O-F-A14-2722-SP-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-2722 15° Optic-Solite

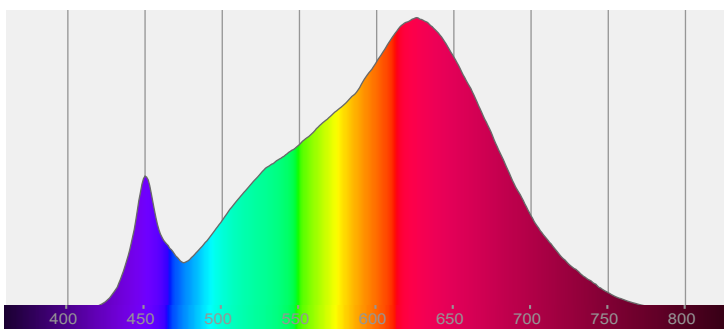
Date and time:

3/24/2022 7:39:48 PM

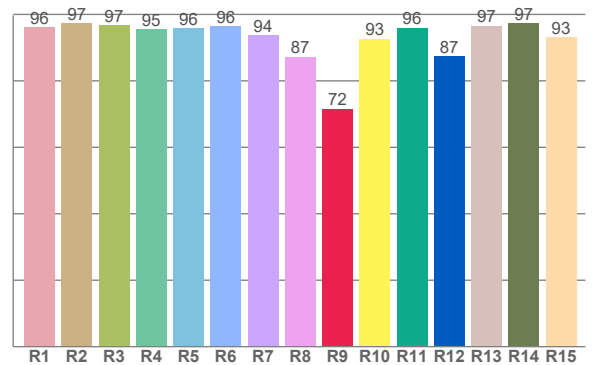
Delivered Lumens

1002

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	71.6	92.6	102.1	91.4	0.447	0.402	0.258	0.348	-0.0022

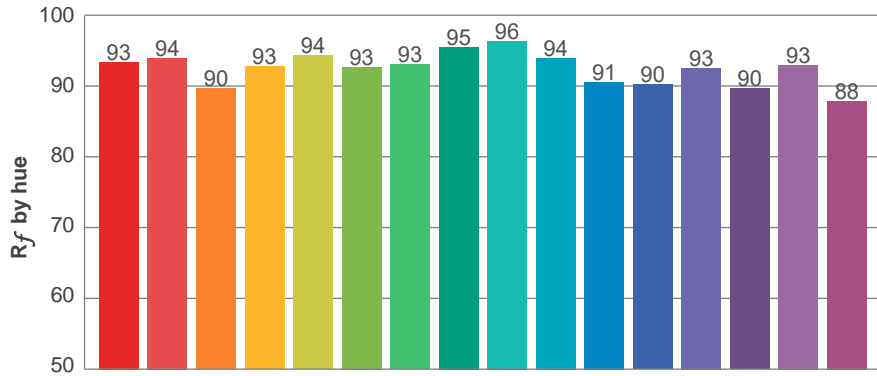
**$R_f$  92.6**  
Fidelity index  $R_f$

---

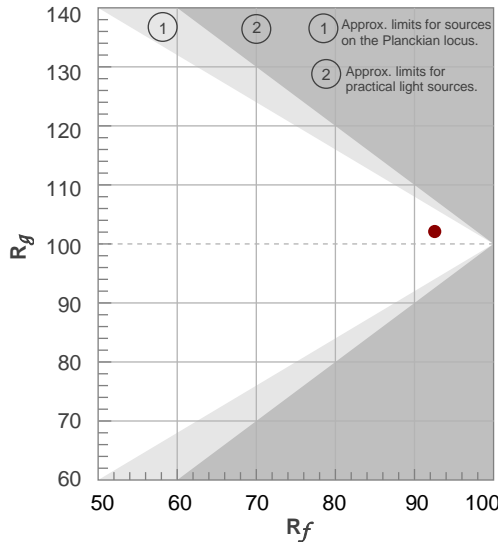
**$R_g$  102.1**  
Gammut index  $R_g$

TM30: 92.6

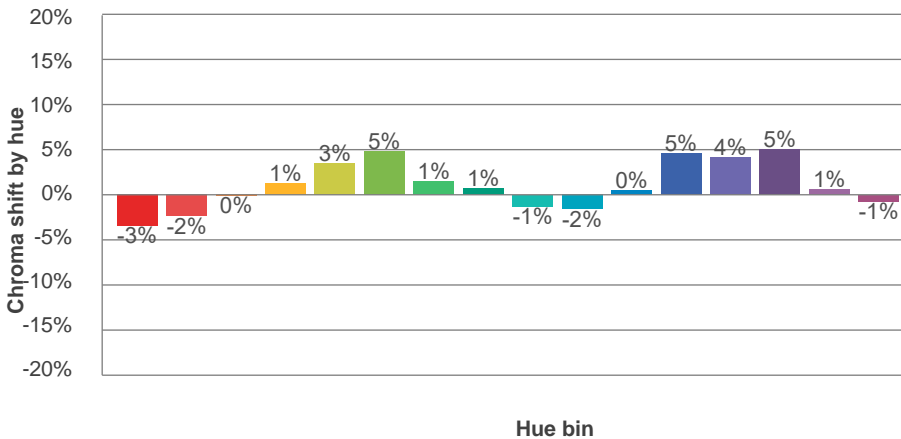
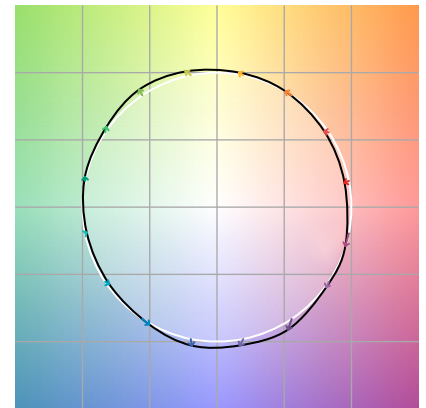
TM-30Color



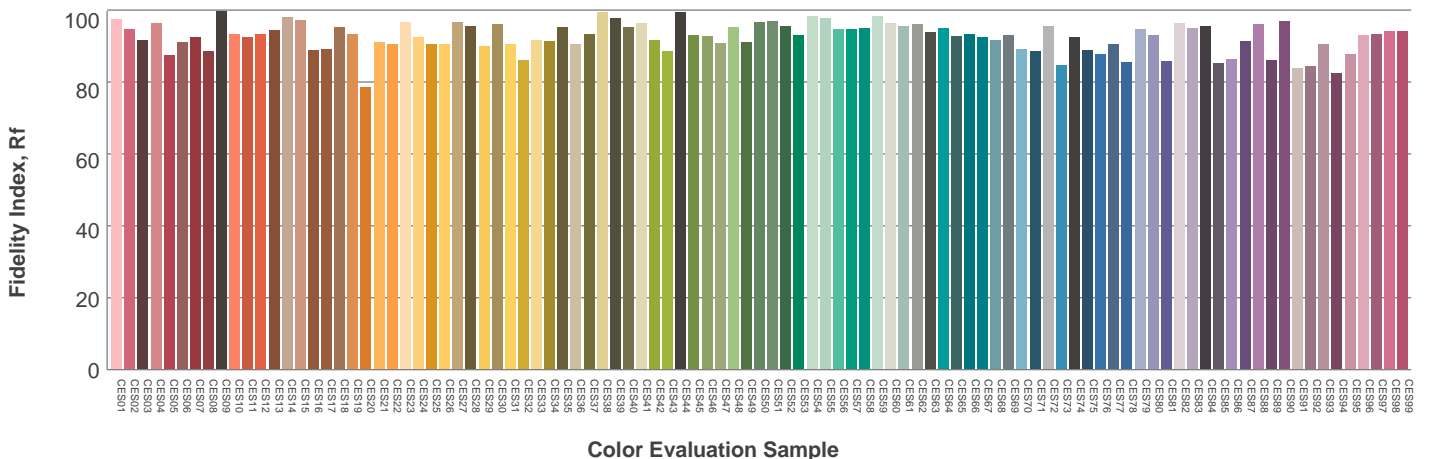
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	2%
3	90	0%	5%
4	93	1%	3%
5	94	3%	3%
6	93	5%	0%
7	93	1%	-4%
8	95	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	91	0%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



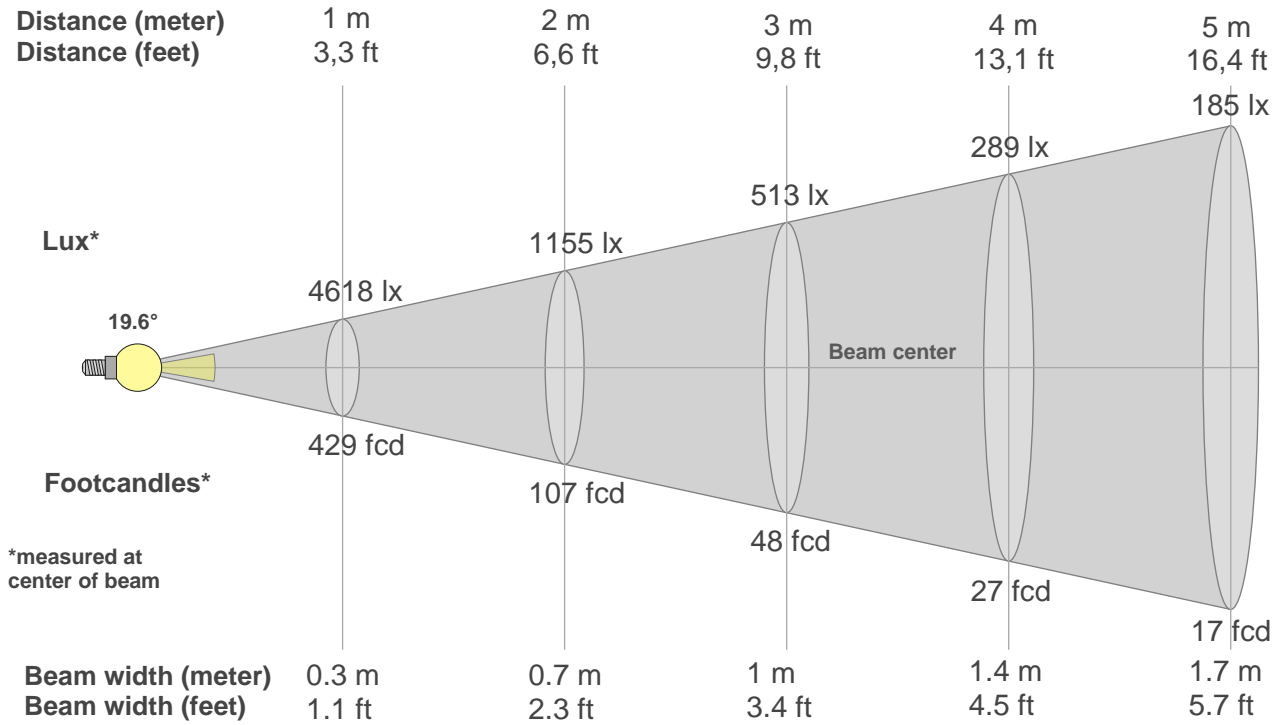
Color vector graphics



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
4618lx	1155lx	513lx	289lx	185lx	128lx	94lx	72lx	57lx	46lx	38lx	32lx	27lx	24lx	21lx	18lx	16lx	14lx	13lx	12lx
429fcd	107.3fcd	47.7fcd	26.8fcd	17.2fcd	11.9fcd	8.8fcd	6.7fcd	5.3fcd	4.3fcd	3.5fcd	3fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd

#### 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°
4618	4467	4066	3452	2807	2219	1723	1333	1061	871	731	626	542	467	389	309	231	160	105	67
100%	97%	88%	75%	61%	48%	37%	29%	23%	19%	16%	14%	12%	10%	8%	7%	5%	3%	2%	1%

#### 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°
4618	4482	4059	3503	2895	2307	1810	1431	1141	929	776	663	570	484	401	321	247	181	126	85
100%	97%	88%	76%	63%	50%	39%	31%	25%	20%	17%	14%	12%	10%	9%	7%	5%	4%	3%	2%

#### 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°
4618	4453	4047	3445	2803	2218	1722	1327	1052	866	729	624	536	455	370	286	206	136	88	57
100%	96%	88%	75%	61%	48%	37%	29%	23%	19%	16%	14%	12%	10%	8%	6%	4%	3%	2%	1%

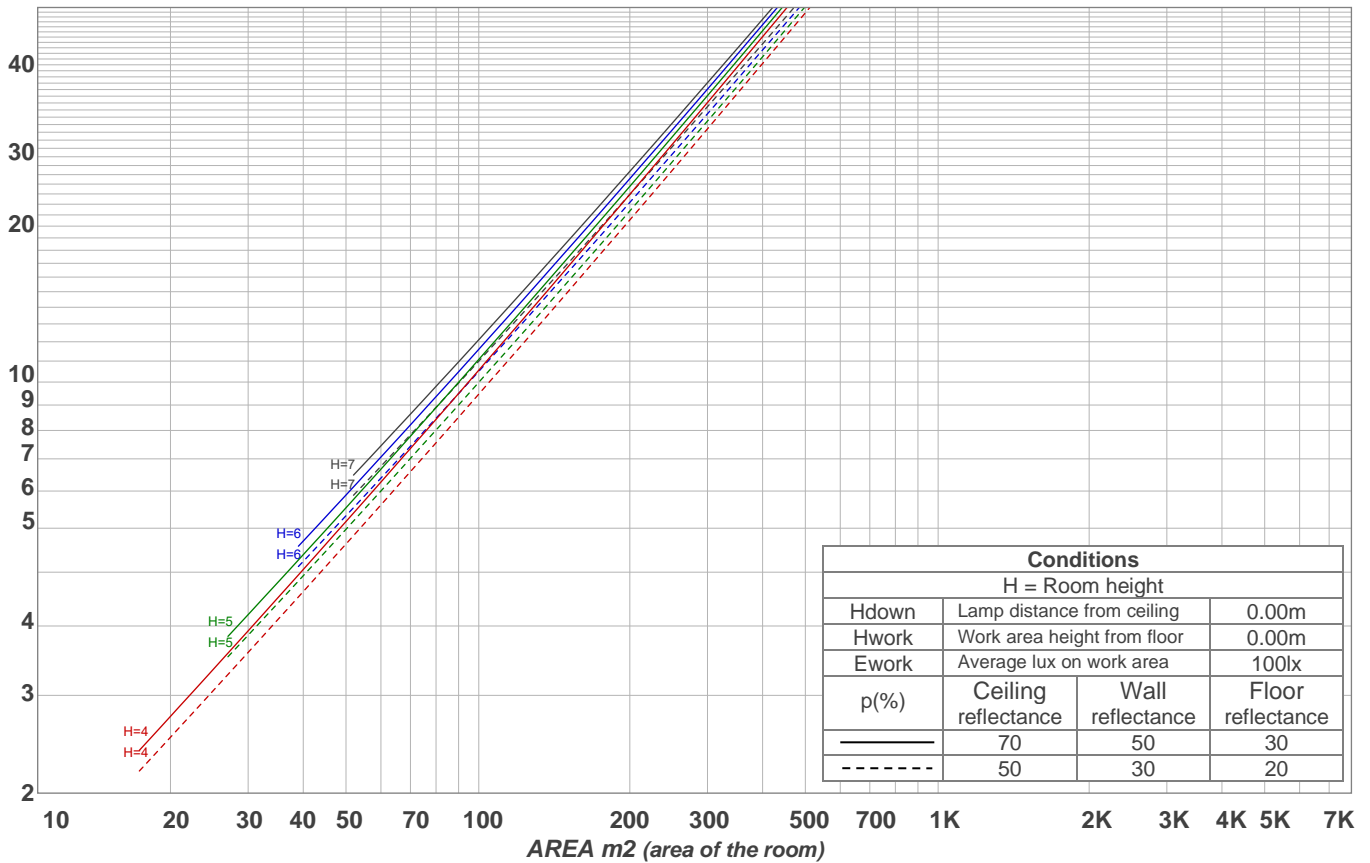
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4618	4470	4079	3530	2901	2303	1805	1408	1106	886	738	626	531	445	359	276	203	142	95	64
100%	97%	88%	76%	63%	50%	39%	30%	24%	19%	16%	14%	12%	10%	8%	6%	4%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.6°	52°	70.9°	99.0%	98.1%

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
<b>RCR</b>	<b>(RCR: Room Cavity Ratio)</b>																				
	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	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	91	89	87	87	87	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80	80	80	80
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	77	77	77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75	75	75	75
8	89	82	77	74	88	81	77	74	80	76	74	80	76	73	79	75	73	72	72	72	72
9	86	79	74	71	86	79	74	71	78	74	71	77	73	71	76	73	71	70	70	70	70
10	84	76	72	69	83	76	72	69	75	71	69	75	71	69	74	71	69	68	68	68	68

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
310 lm	348 lm	229 lm	85.7 lm	13.9 lm	4.99 lm	3.53 lm	3.25 lm	3.26 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