

Light efficiency:



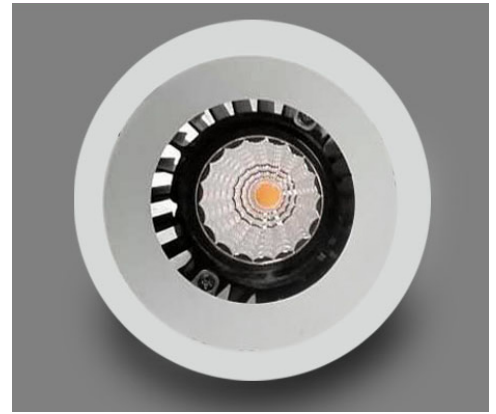
Output: 977 lm

Light quality:

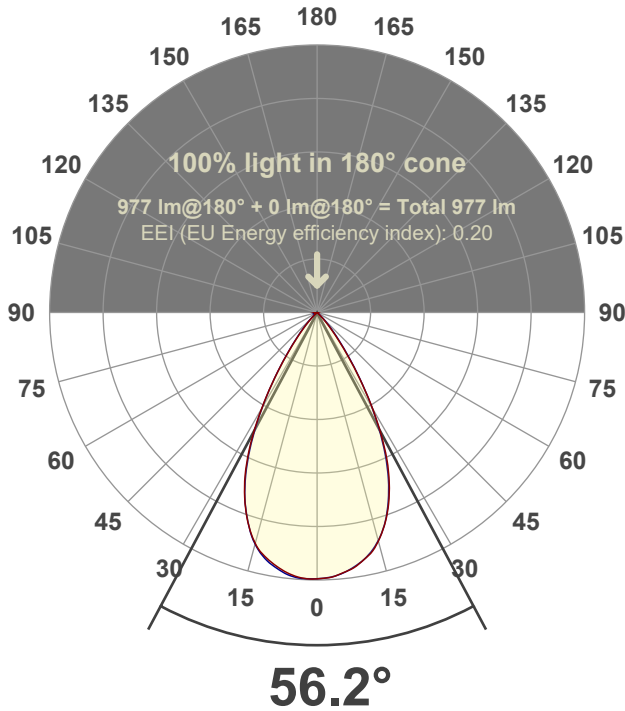


Peak: 1201 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Round Fixed Downlight-A14-2722 60° Optic-Solite

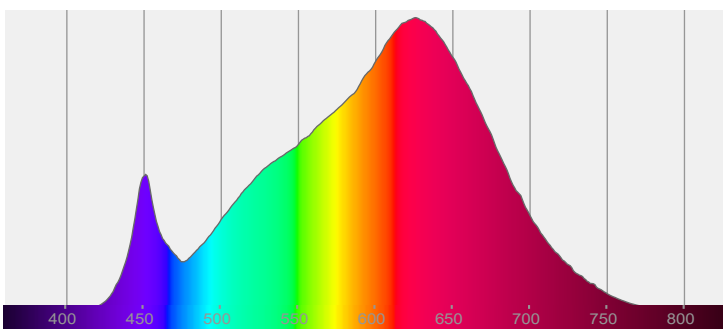
Date and time:

3/24/2022 6:34:58 PM

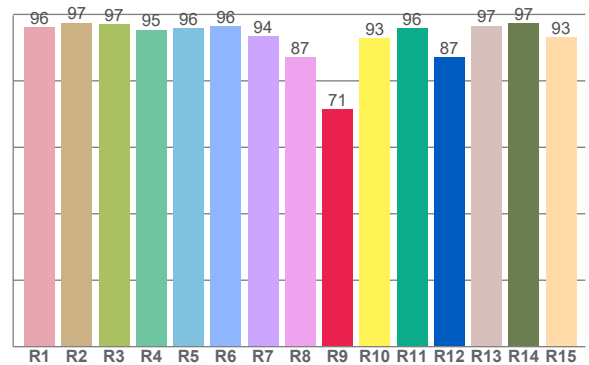
Delivered Lumens

977

Spectra



CRI: 94.8 (R1-R8)



Color parameters

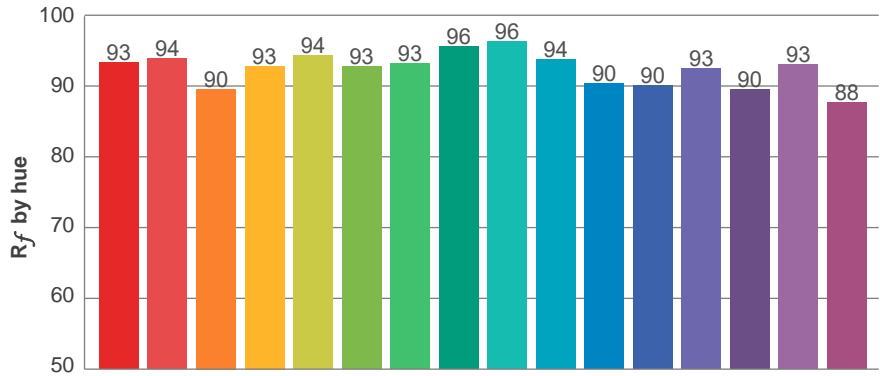
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	94.8	71.4	92.5	102.1	91.3	0.446	0.401	0.258	0.348	-0.0023

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

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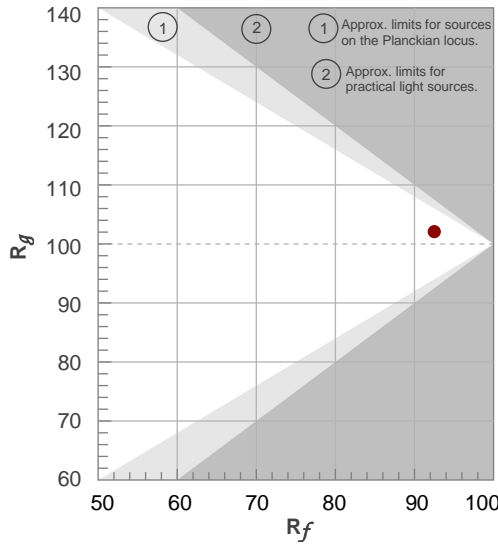
**$R_g$  102.1**  
Gammut index  $R_g$

TM30: 92.5

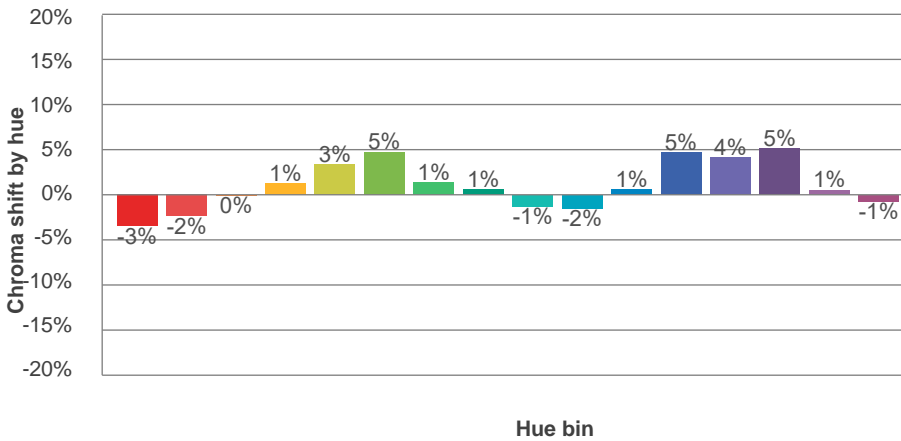
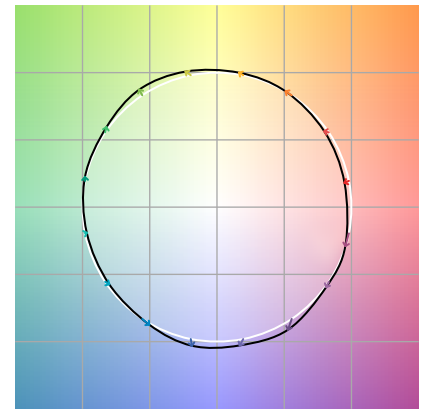


TM-30Color

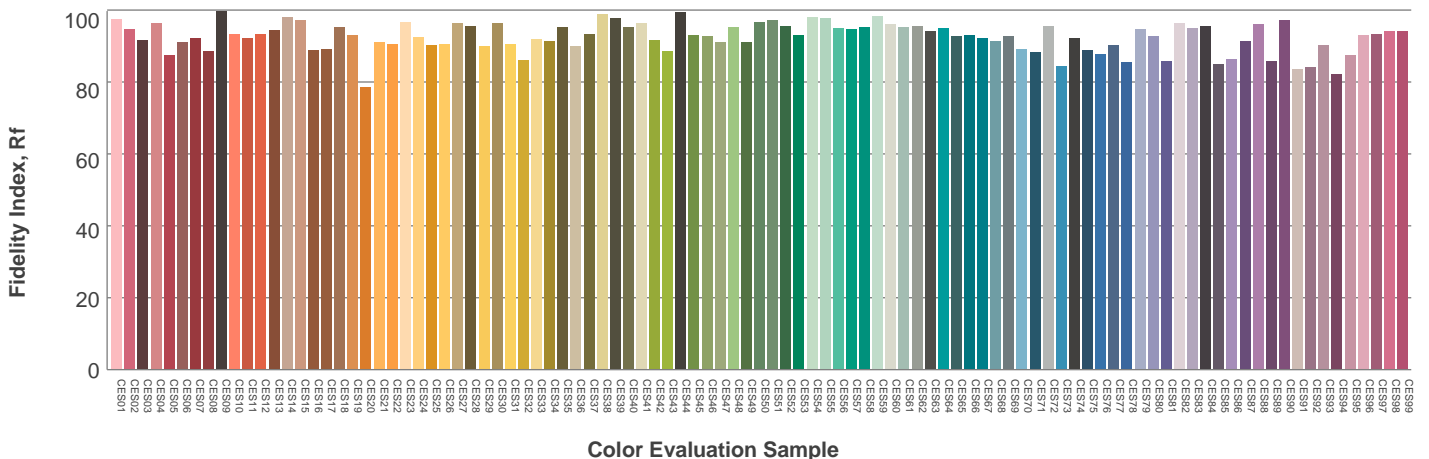
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	3%
3	90	0%	5%
4	93	1%	3%
5	94	3%	3%
6	93	5%	0%
7	93	1%	-4%
8	96	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	90	1%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



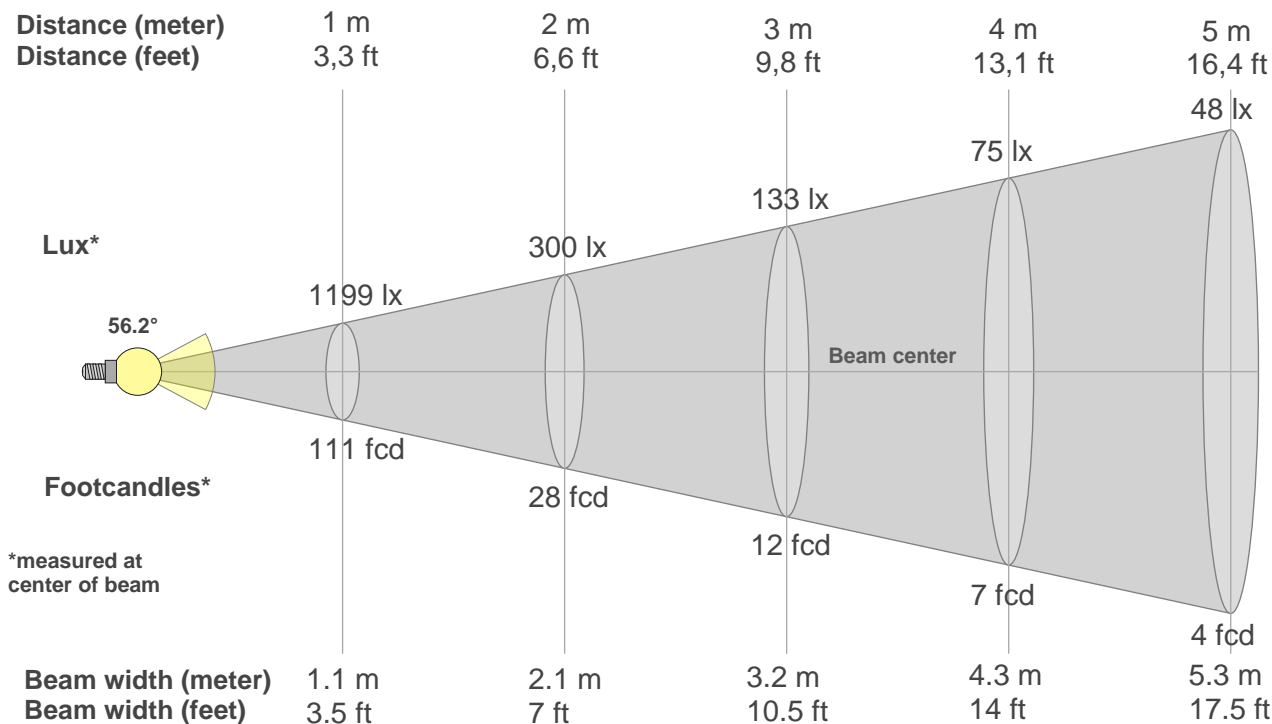
Color vector graphics



Color distortion



### Beam details



\*measured at center of beam

#### 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
1199lx	300lx	133lx	75lx	48lx	33lx	24lx	19lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
111.4fcd	27.8fcd	12.4fcd	7fcd	4.5fcd	3.1fcd	2.3fcd	1.7fcd	1.4fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd

#### 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°
1199	1196	1189	1176	1163	1142	1118	1086	1044	995	936	869	793	708	609	506	403	308	226	160
100%	100%	99%	98%	97%	95%	93%	91%	87%	83%	78%	72%	66%	59%	51%	42%	34%	26%	19%	13%

#### 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°
1199	1195	1189	1177	1160	1140	1115	1083	1043	992	931	861	783	695	599	501	404	314	235	172
100%	100%	99%	98%	97%	95%	93%	90%	87%	83%	78%	72%	65%	58%	50%	42%	34%	26%	20%	14%

#### 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°
1199	1200	1195	1184	1167	1148	1124	1097	1054	1002	942	874	799	708	609	507	406	312	232	169
100%	100%	100%	99%	97%	96%	94%	91%	88%	84%	79%	73%	67%	59%	51%	42%	34%	26%	19%	14%

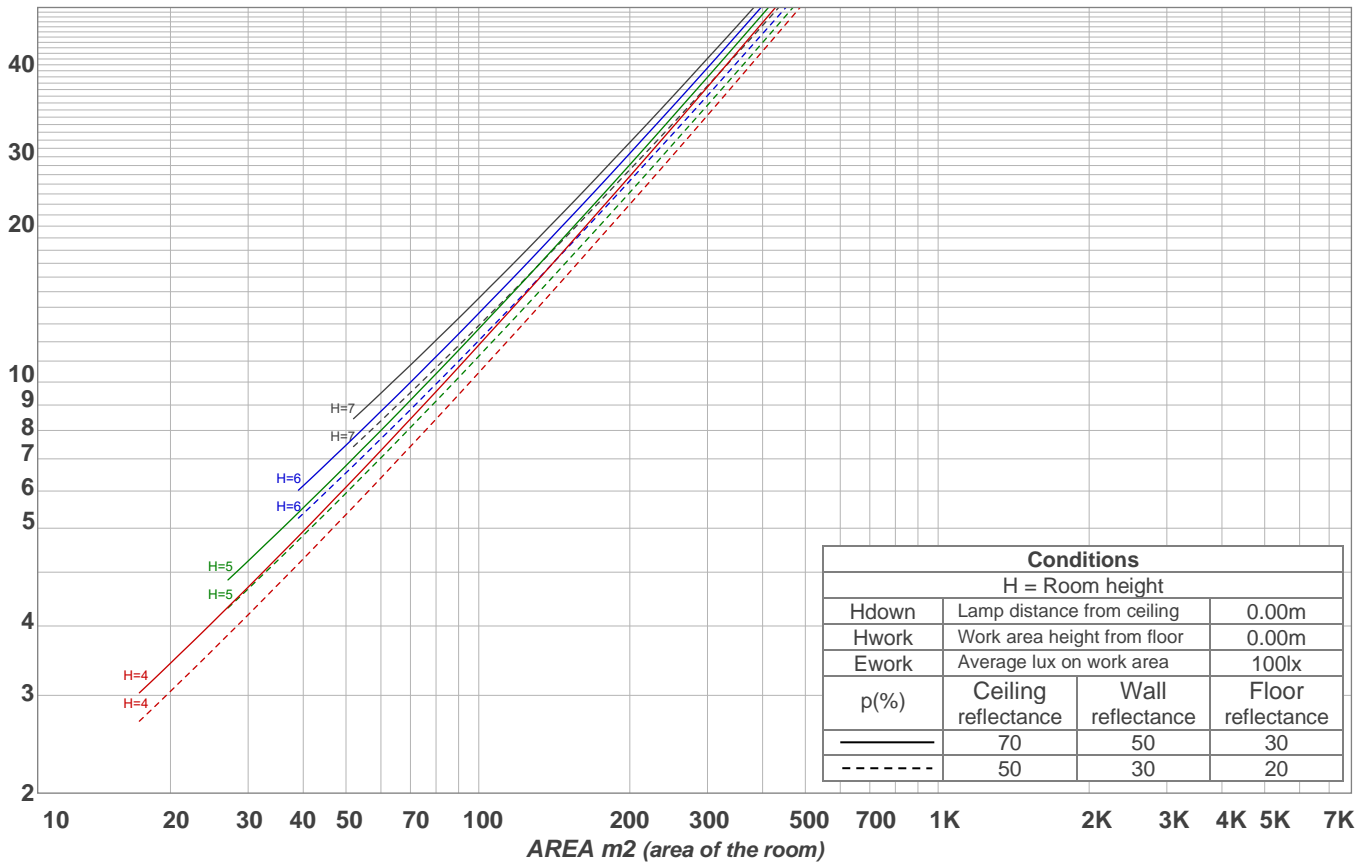
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1199	1200	1199	1190	1175	1156	1132	1100	1057	1002	940	870	790	698	599	500	403	313	235	174
100%	100%	100%	99%	98%	96%	94%	92%	88%	84%	78%	73%	66%	58%	50%	42%	34%	26%	20%	15%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56.2°	80.2°	95°	99.1%	97.0%

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94	94	94	
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	88	88	88	
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82	82	82	
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	76	76	76	
5	93	85	80	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72	72	72	
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67	67	67	
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	71	68	65	63	63	63	
8	81	72	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60	60	60	
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56	56	56	
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53	53	53	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
112 lm	298 lm	336 lm	173 lm	41.8 lm	8.22 lm	3.68 lm	2.69 lm	1.94 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