

Light efficiency:



Output: 892 lm

Light quality:

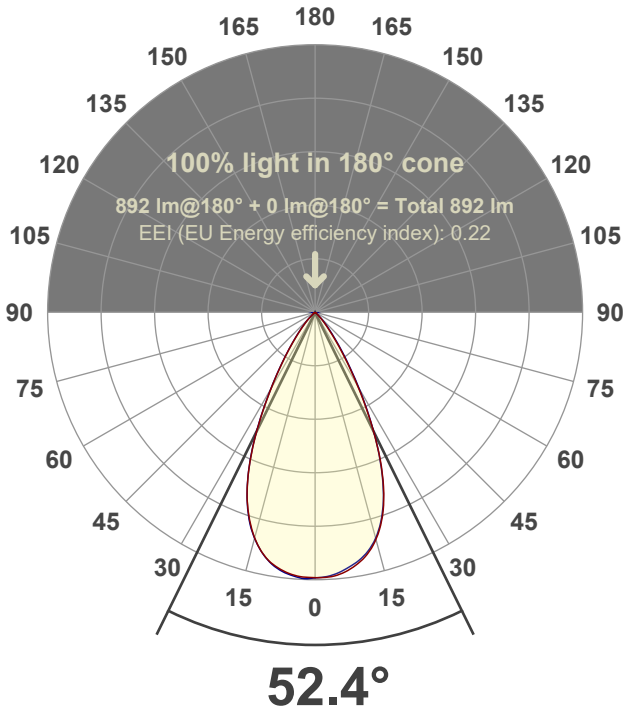


Peak: 1199 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-3022-WF-RD-91A-Rev2

Luminaire Model:

Graffiti Regress Round Fixed Downlight-A14-3022 60° Optic-Solite

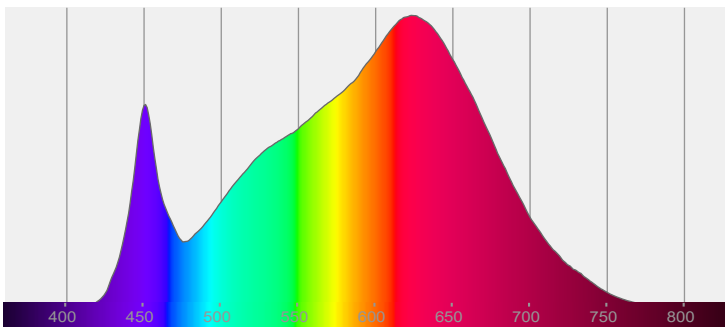
Date and time:

3/24/2022 6:14:52 PM

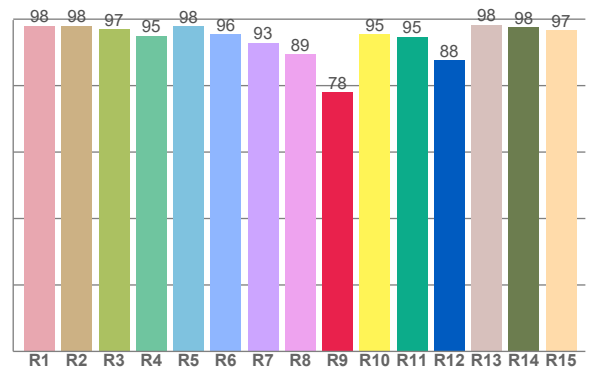
Delivered Lumens

892

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 divition 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	90.7	0.421	0.382	0.250	0.340	-0.0068

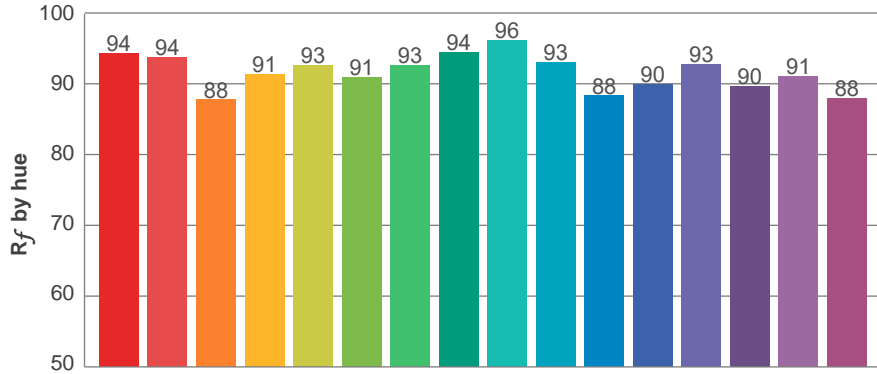
**$R_f$  91.8**  
Fidelity index  $R_f$

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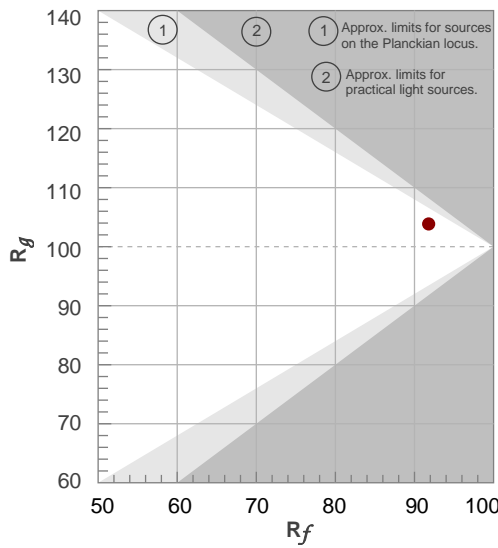
**$R_g$  103.8**  
Gammut index  $R_g$

TM30: 91.8

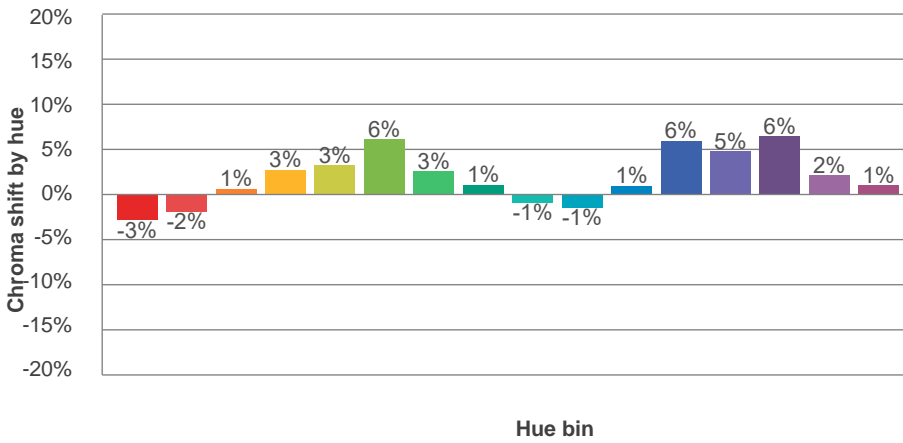
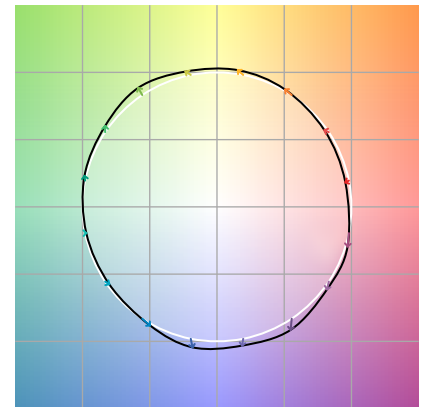
TM-30Color



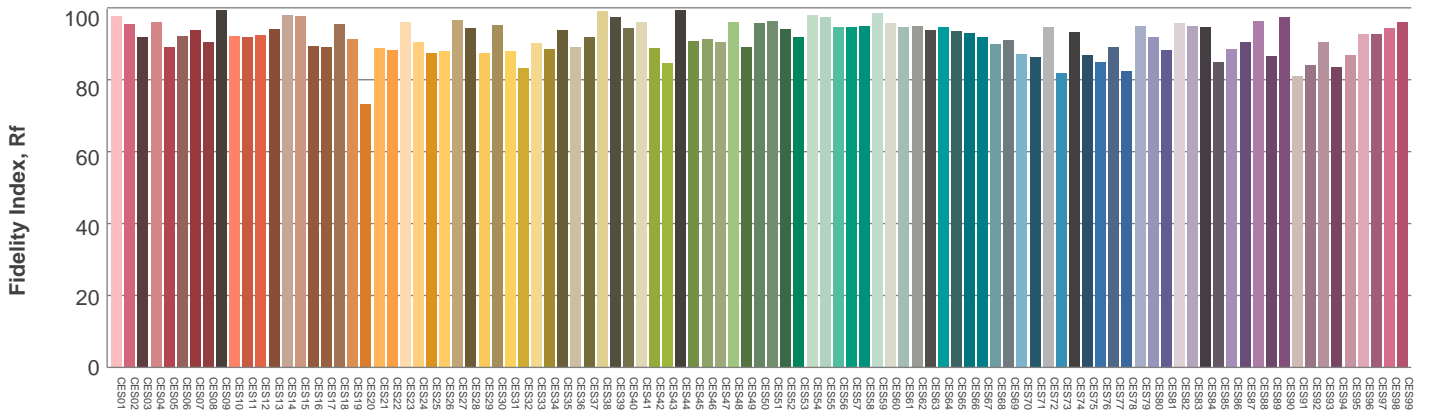
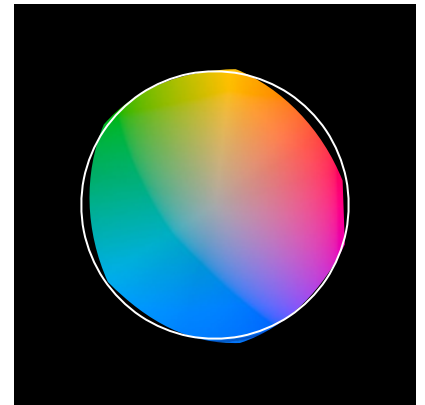
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	3%
3	88	1%	6%
4	91	3%	5%
5	93	3%	3%
6	91	6%	0%
7	93	3%	-4%
8	94	1%	-3%
9	96	-1%	0%
10	93	-1%	3%
11	88	1%	8%
12	90	6%	3%
13	93	5%	-2%
14	90	6%	-5%
15	91	2%	-6%
16	88	1%	-10%



Color vector graphics



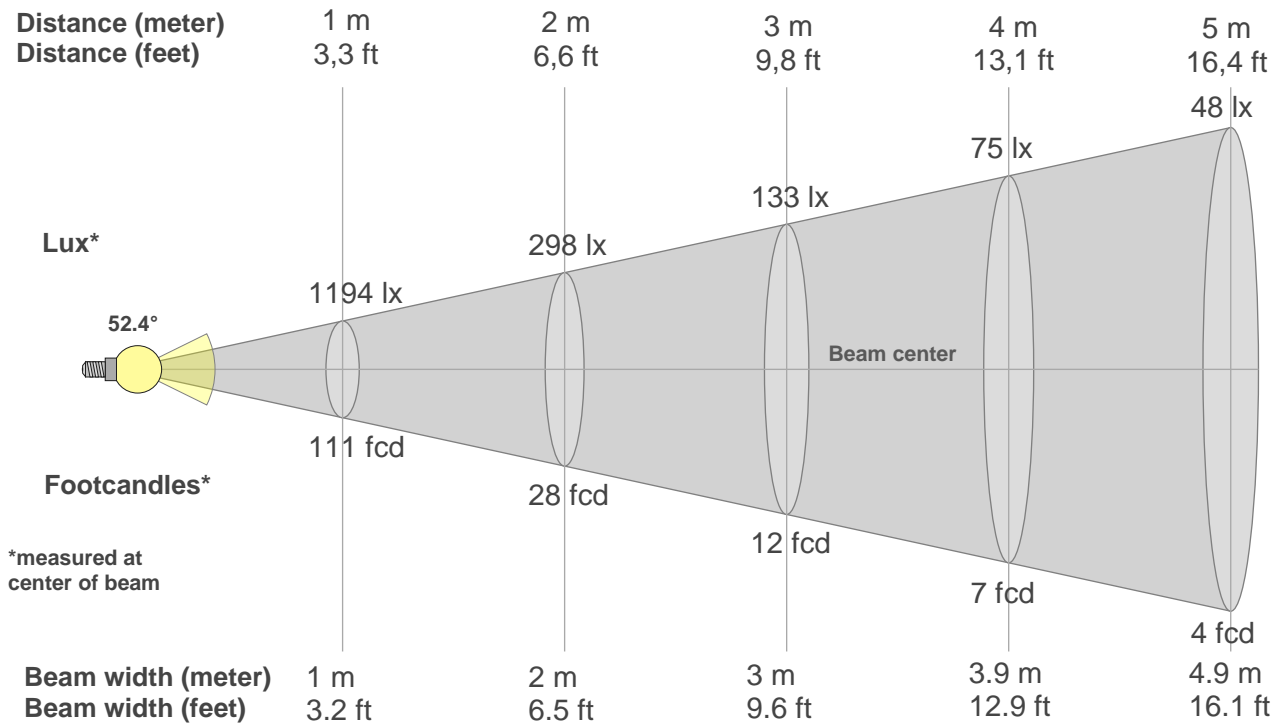
Color distortion



Color Evaluation Sample

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**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
1194lx	298lx	133lx	75lx	48lx	33lx	24lx	19lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
110.9fcd	27.7fcd	12.3fcd	6.9fcd	4.4fcd	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°
1194	1193	1190	1179	1163	1142	1115	1080	1032	974	902	817	720	609	499	394	301	224	165	121
100%	100%	100%	99%	97%	96%	93%	90%	86%	82%	76%	68%	60%	51%	42%	33%	25%	19%	14%	10%

**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°
1194	1191	1182	1169	1152	1134	1107	1072	1026	969	899	812	714	610	504	403	312	240	181	134
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	75%	68%	60%	51%	42%	34%	26%	20%	15%	11%

**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°
1194	1192	1188	1178	1164	1143	1113	1073	1024	965	894	809	713	609	502	404	319	248	190	142
100%	100%	99%	99%	97%	96%	93%	90%	86%	81%	75%	68%	60%	51%	42%	34%	27%	21%	16%	12%

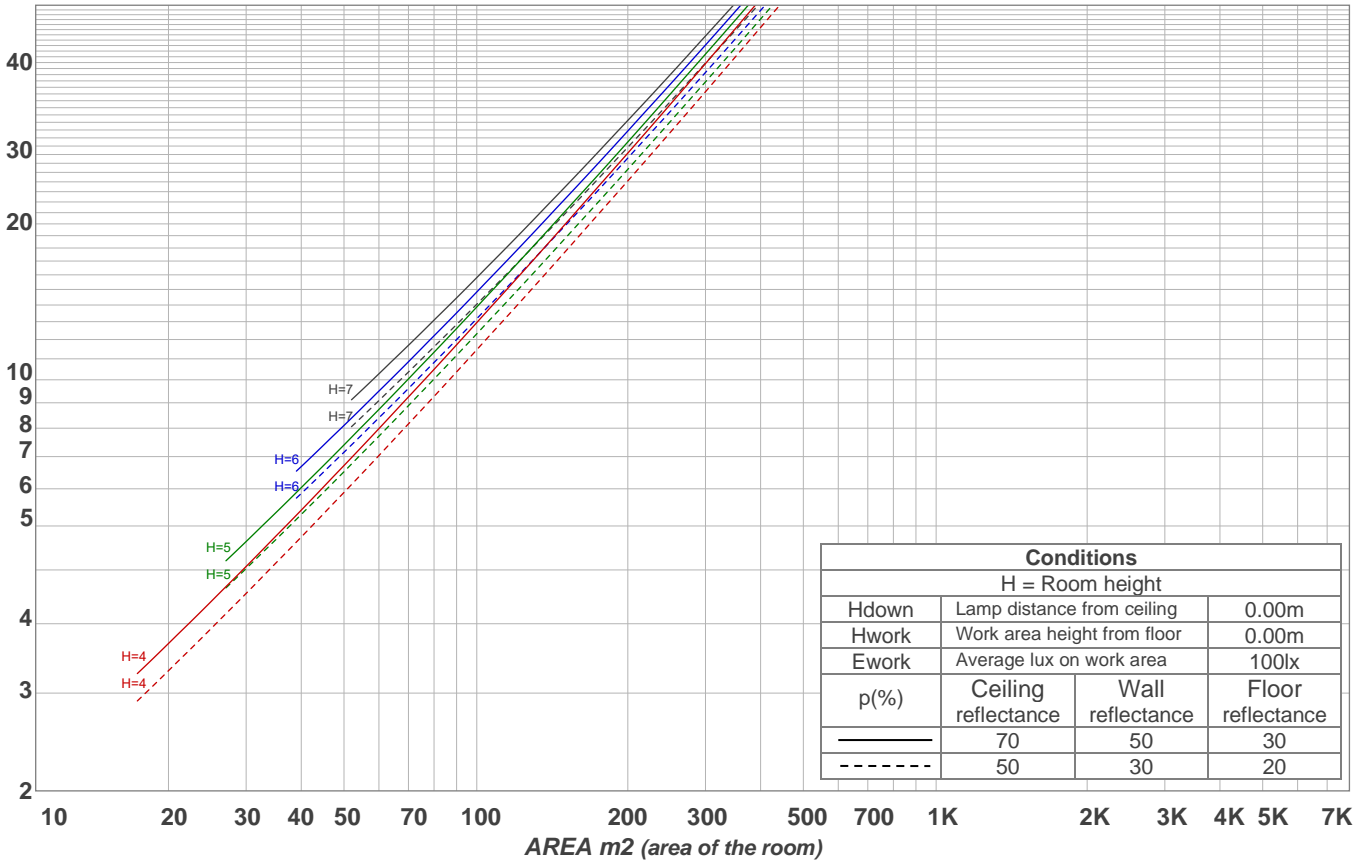
**Intensities in 270° c-plane**

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1194	1198	1193	1182	1167	1146	1115	1075	1026	967	895	811	714	610	505	406	320	249	192	146
100%	100%	100%	99%	98%	96%	93%	90%	86%	81%	75%	68%	60%	51%	42%	34%	27%	21%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52.4°	77.7°	95°	99.1%	96.7%

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	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88	88	88	
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82	
4	98	91	86	82	97	90	85	81	88	84	81	86	82	80	84	81	79	77	77	77	
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	
6	89	81	75	71	88	80	75	71	79	74	71	77	73	70	76	72	70	68	68	68	
7	85	77	71	67	84	76	71	67	75	70	66	74	69	66	72	69	66	64	64	64	
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61	
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	58	58	58	
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55	55	55	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
112 lm	292 lm	297 lm	136 lm	38.5 lm	8.85 lm	4.13 lm	1.91 lm	1.95 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

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