

Light efficiency:



Output: 880 lm

Light quality:

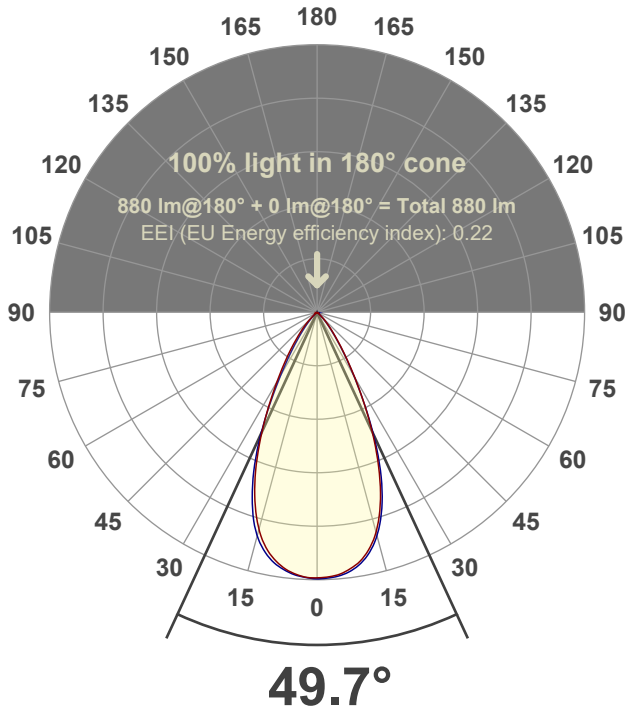


Peak: 1256 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

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

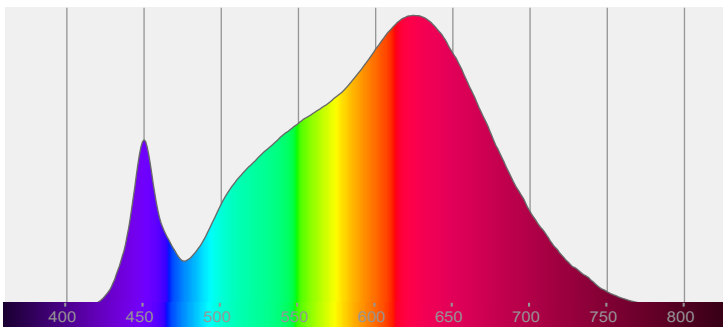
Date and time:

6/30/2022 5:10:05 PM

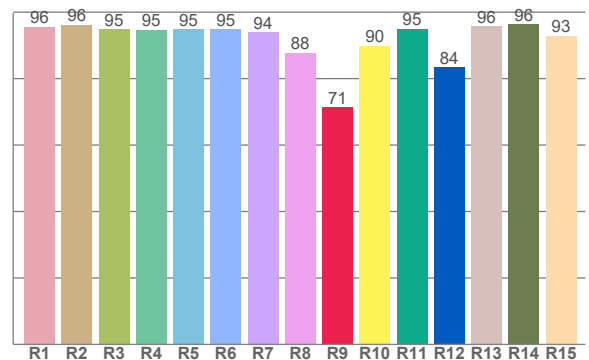
Delivered Lumens

880

Spectra



CRI: 94.1 (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
94.1	71.3	91.7	102.8	90.9	0.435	0.398	0.252	0.346	-0.0021

**$R_f$  91.7**

Fidelity index  $R_f$

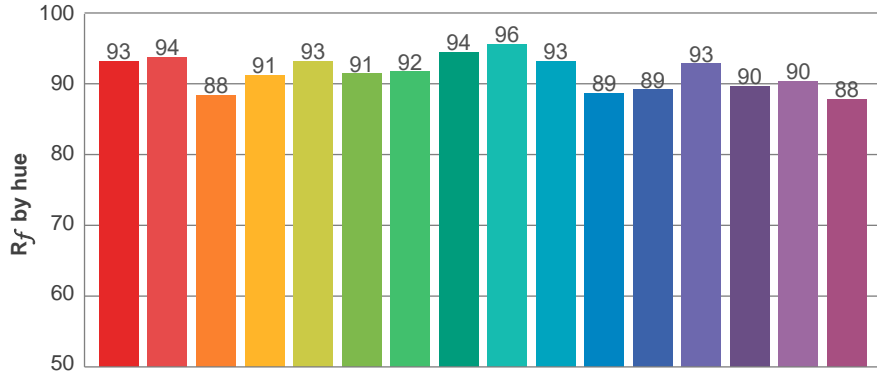
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**$R_g$  102.8**

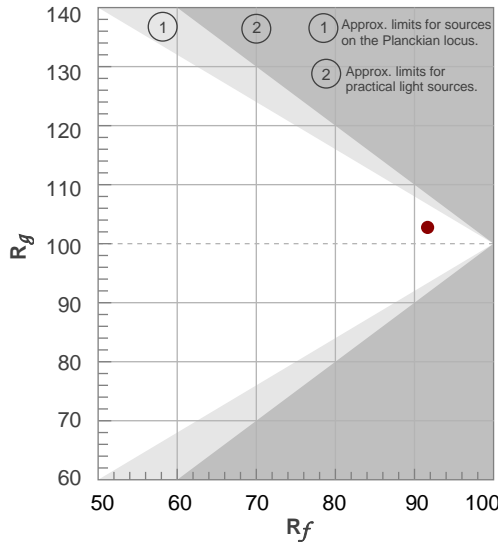
Gammut index  $R_g$

TM30: 91.7

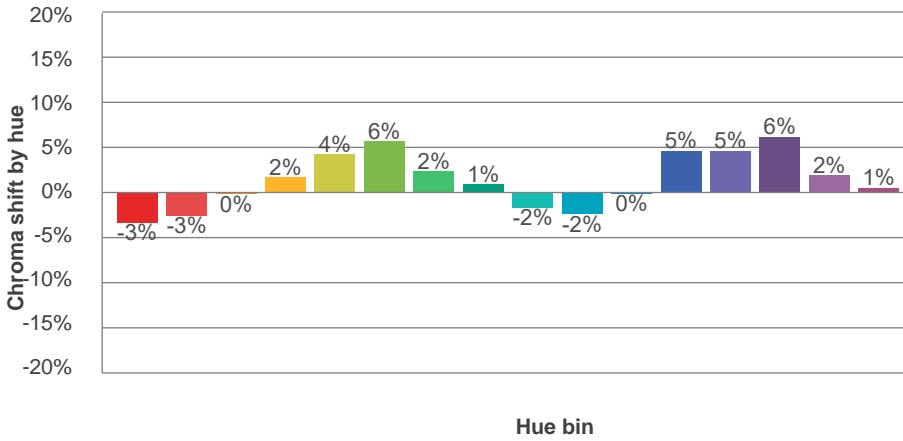
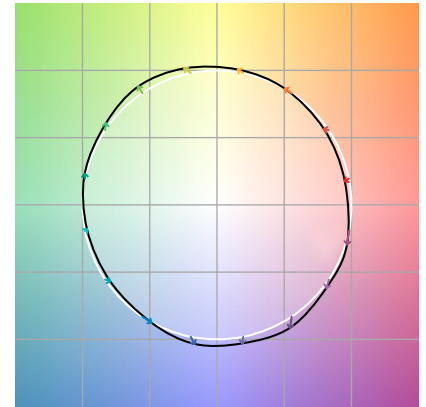
TM-30Color



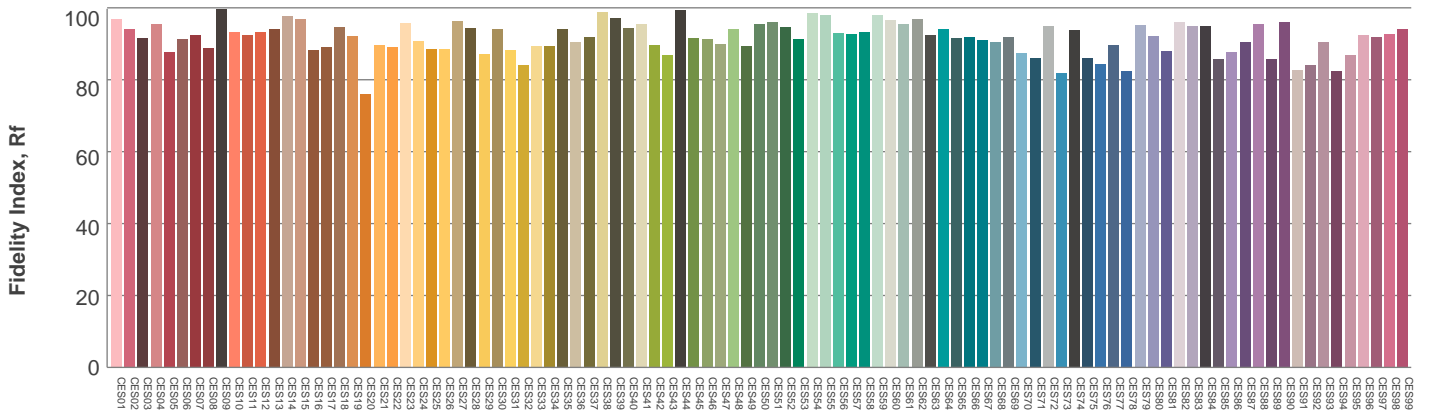
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	88	0%	6%
4	91	2%	4%
5	93	4%	4%
6	91	6%	0%
7	92	2%	-5%
8	94	1%	-4%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	90	2%	-6%
16	88	1%	-10%



Color vector graphics



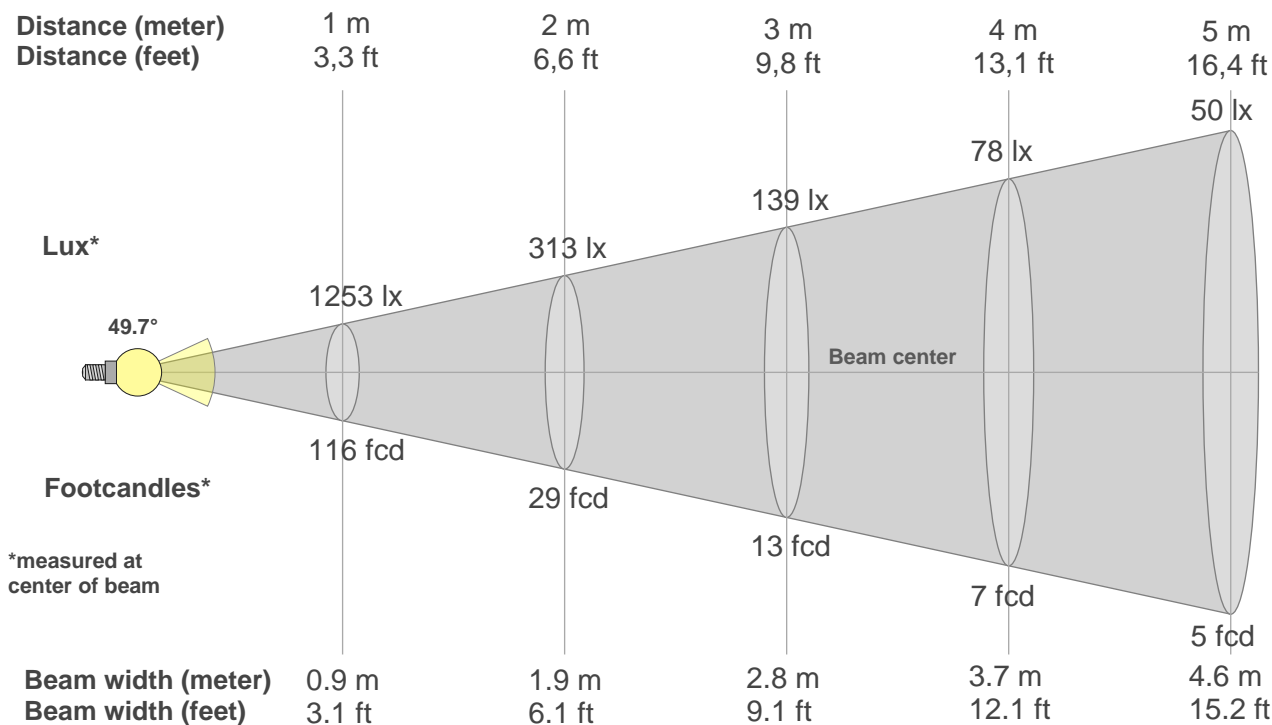
Color distortion



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
1253lx	313lx	139lx	78lx	50lx	35lx	26lx	20lx	15lx	13lx	10lx	9lx	7lx	6lx	6lx	5lx	4lx	4lx	3lx	3lx
116.5fcd	29.1fcd	12.9fcd	7.3fcd	4.7fcd	3.2fcd	2.4fcd	1.8fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	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°
1253	1249	1242	1230	1211	1187	1150	1102	1038	961	872	772	666	558	456	364	286	221	171	133
100%	100%	99%	98%	97%	95%	92%	88%	83%	77%	70%	62%	53%	45%	36%	29%	23%	18%	14%	11%

#### 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°
1253	1254	1249	1239	1222	1198	1164	1119	1058	983	896	795	683	565	453	356	276	211	159	119
100%	100%	100%	99%	98%	96%	93%	89%	84%	78%	71%	63%	54%	45%	36%	28%	22%	17%	13%	9%

#### 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°
1253	1251	1242	1227	1206	1177	1140	1090	1024	946	859	764	663	563	468	385	315	255	205	161
100%	100%	99%	98%	96%	94%	91%	87%	82%	75%	69%	61%	53%	45%	37%	31%	25%	20%	16%	13%

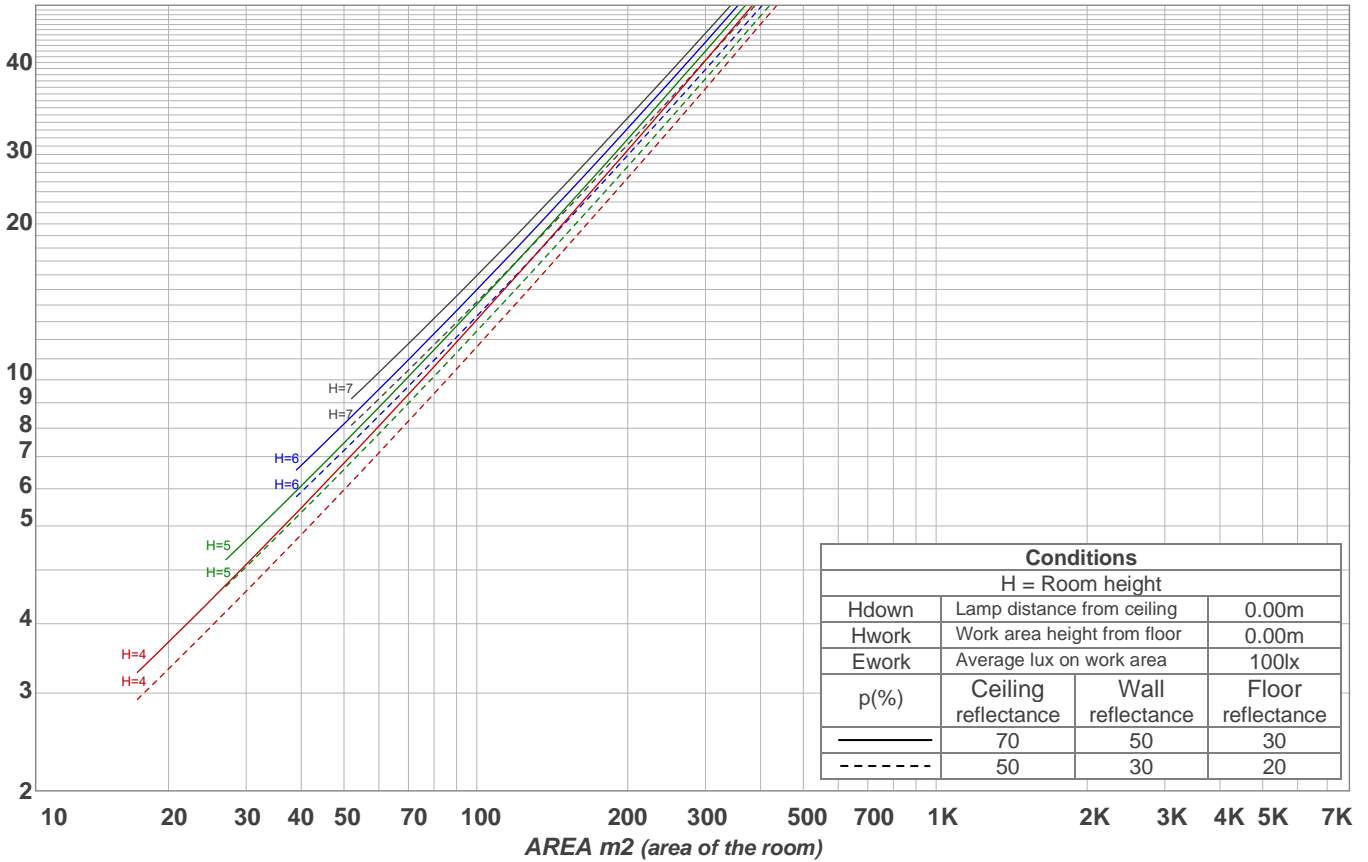
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1253	1252	1245	1233	1216	1194	1161	1117	1058	982	893	794	683	564	452	353	272	209	158	120
100%	100%	99%	98%	97%	95%	93%	89%	84%	78%	71%	63%	54%	45%	36%	28%	22%	17%	13%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49.7°	77°	95.3°	98.9%	96.3%

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	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	96	94	92	90
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	90	88	86	84	82
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	80	78	76
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	74	72	70
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	70	68	66
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69	66	64	62
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65	62	60	58
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	63	61	58	56	54
9	78	69	64	60	77	69	64	60	68	63	60	67	63	59	66	62	59	58	55	53	51
10	75	66	60	57	74	66	60	57	65	60	57	64	60	56	63	59	56	55	52	50	48

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
117 lm	297 lm	279 lm	127 lm	40.6 lm	9.69 lm	4.88 lm	2.51 lm	2.18 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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