

Light efficiency:



Output: 904 lm

Light quality:

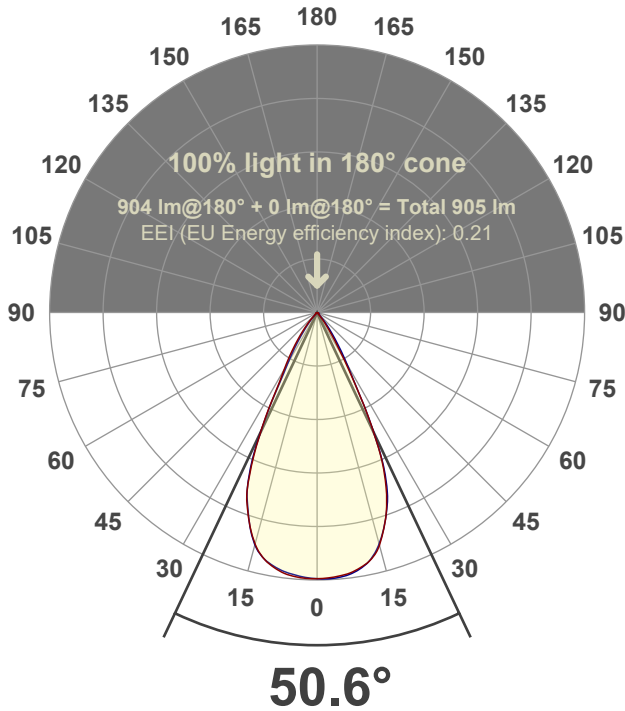


Peak: 1365 cd

Power: 15.0 W



Beam angle



Test number:

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

Luminaire Model:

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

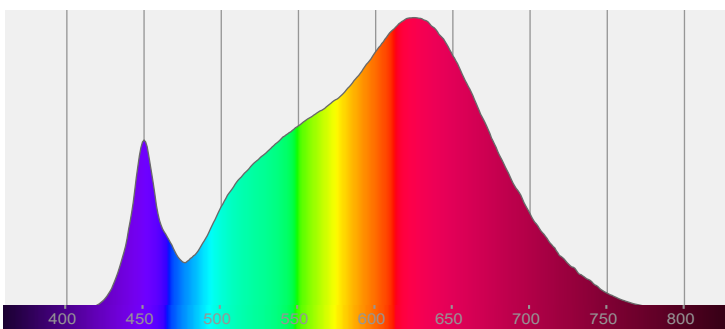
Date and time:

6/30/2022 5:05:03 PM

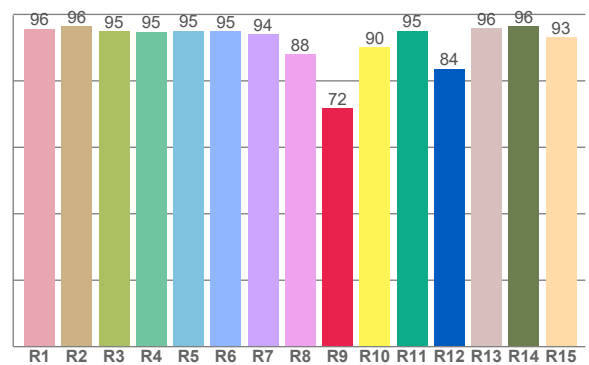
Delivered Lumens

904

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	71.8	91.7	102.8	90.9	0.434	0.398	0.251	0.346	-0.0022

**$R_f$  91.7**

Fidelity index  $R_f$

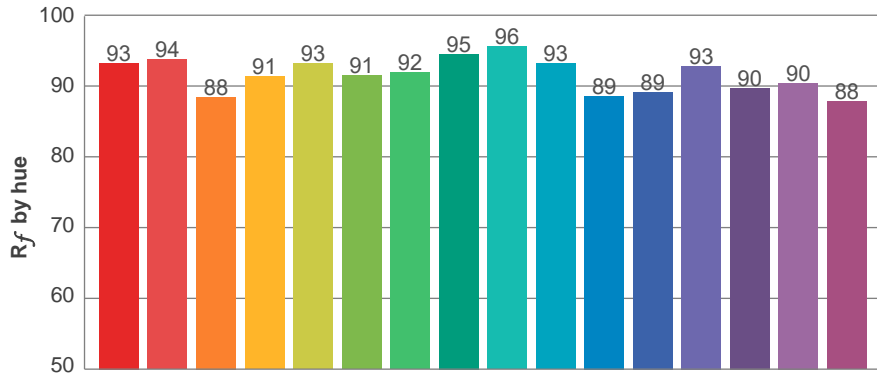
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**$R_g$  102.8**

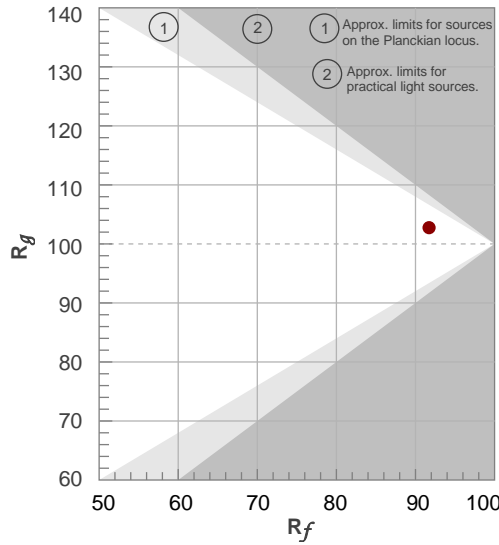
Gammut index  $R_g$

TM30: 91.7

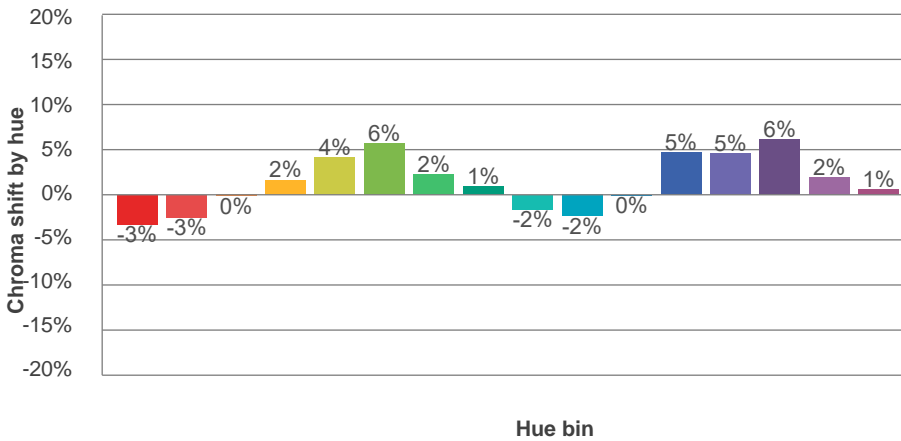
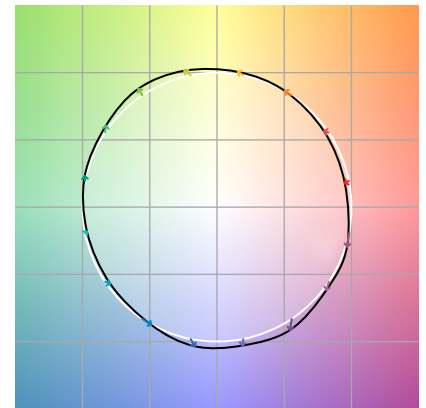
TM-30Color



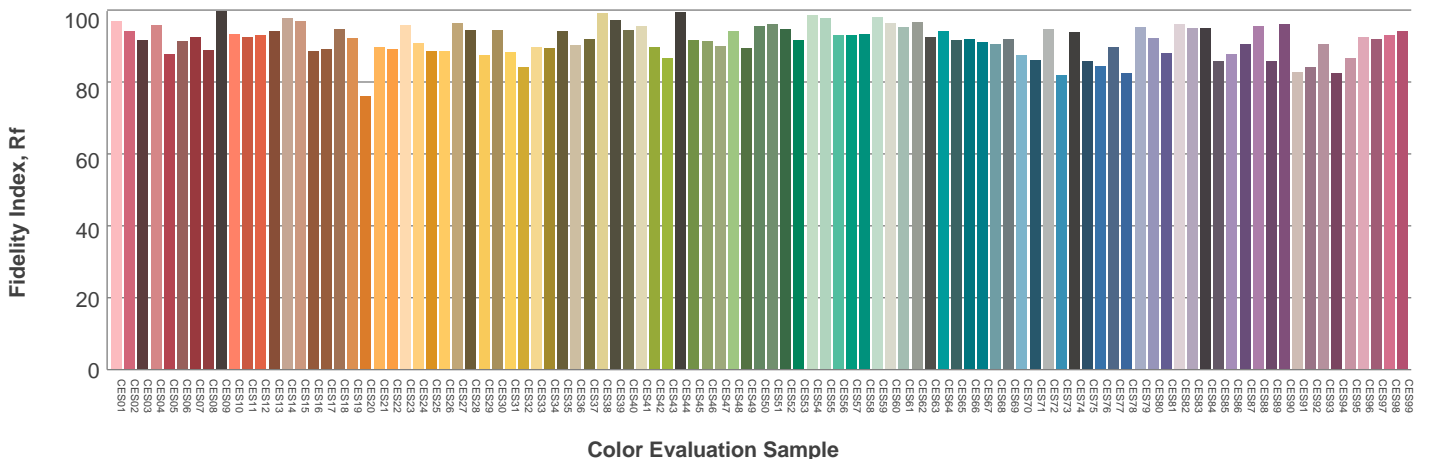
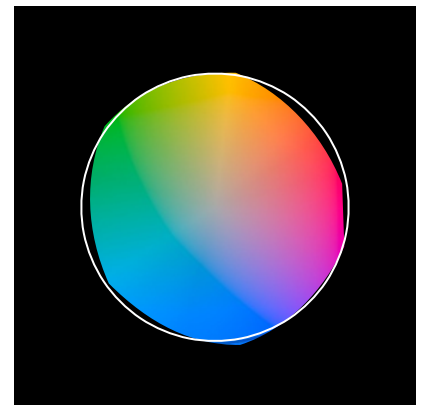
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	88	0%	6%
4	91	2%	4%
5	93	4%	4%
6	91	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	90	2%	-6%
16	88	1%	-10%



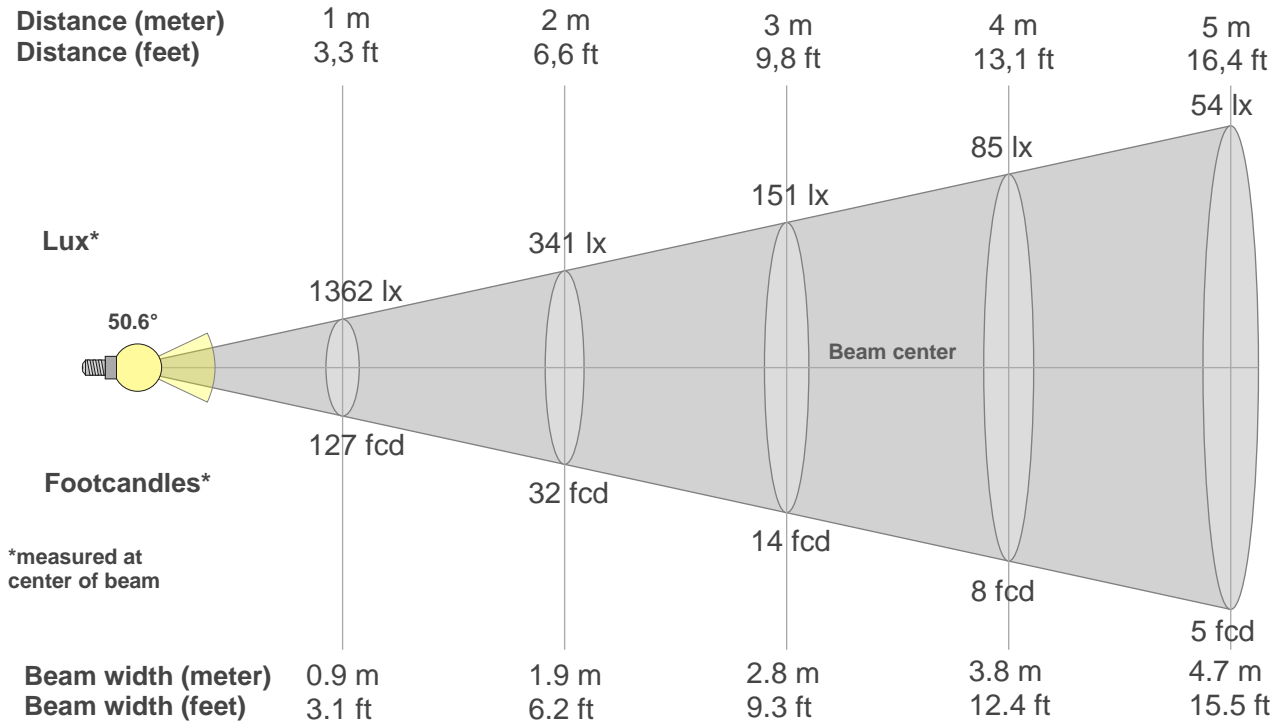
Color vector graphics



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
1362lx	341lx	151lx	85lx	54lx	38lx	28lx	21lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
126.6fcd	31.6fcd	14.1fcd	7.9fcd	5.1fcd	3.5fcd	2.6fcd	2fcd	1.6fcd	1.3fcd	1fcd	0.9fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.4fcd	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°
1362	1360	1356	1349	1338	1321	1299	1260	1199	1126	1041	935	804	619	433	288	191	129	83	57
100%	100%	100%	99%	98%	97%	95%	92%	88%	83%	76%	69%	59%	45%	32%	21%	14%	9%	6%	4%

**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°
1362	1364	1362	1355	1343	1324	1297	1254	1195	1126	1047	948	808	618	436	322	241	177	128	91
100%	100%	100%	99%	99%	97%	95%	92%	88%	83%	77%	70%	59%	45%	32%	24%	18%	13%	9%	7%

**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°
1362	1362	1358	1351	1338	1319	1293	1252	1195	1126	1046	944	794	624	455	348	278	218	165	124
100%	100%	100%	99%	98%	97%	95%	92%	88%	83%	77%	69%	58%	46%	33%	26%	20%	16%	12%	9%

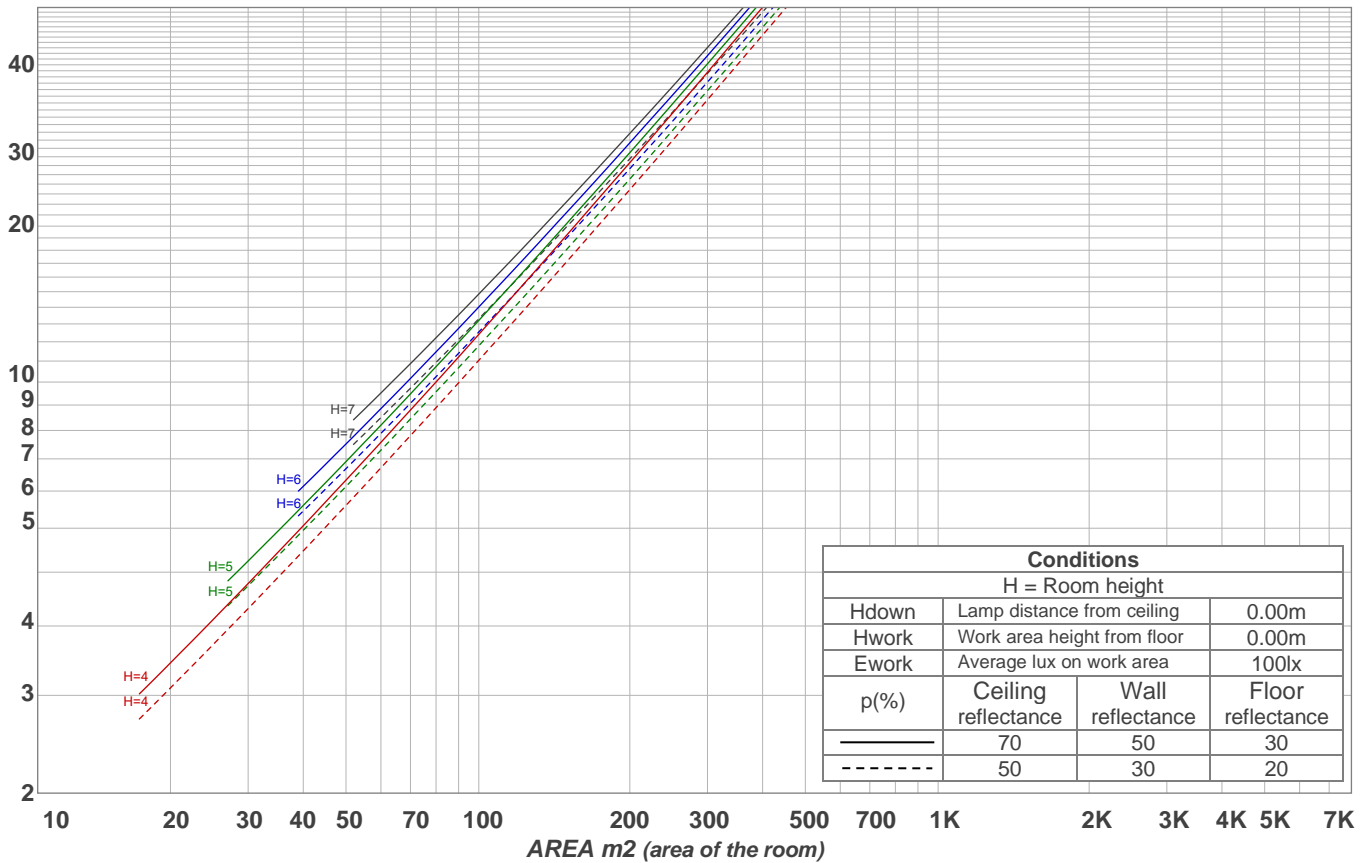
**Intensities in 270° c-plane**

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1362	1358	1351	1342	1331	1314	1291	1254	1198	1125	1042	948	807	617	436	311	235	173	121	87
100%	100%	99%	99%	98%	96%	95%	92%	88%	83%	76%	70%	59%	45%	32%	23%	17%	13%	9%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
<b>50.6°</b>	<b>71°</b>	<b>85°</b>	<b>99.1%</b>	<b>98.4%</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	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94	94	94	
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84	84	84	
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75	75	75	
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71	71	71	
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68	68	68	
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64	64	64	
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61	61	61	
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58	58	58	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
128 lm	340 lm	311 lm	97.0 lm	17.9 lm	2.51 lm	2.83 lm	2.48 lm	2.33 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