

Light efficiency:



Output: 1237 lm

Light quality:

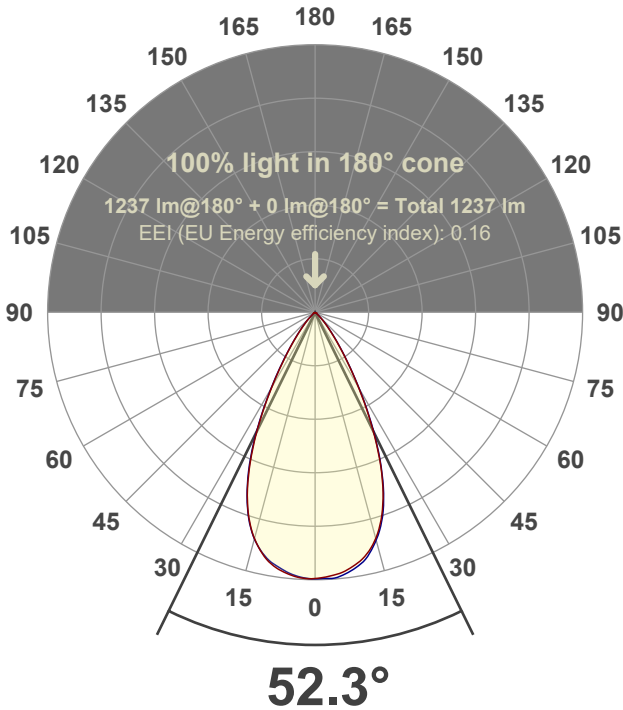


Peak: 1648 cd

Power: 14.2 W



Beam angle



Test number:

GR-F-CZ14-30k-WF-RD-91A-Rev2

Luminaire Model:

Graffiti Regress Round Fixed Downlight-CZ14 30k 60° Optic-Solite

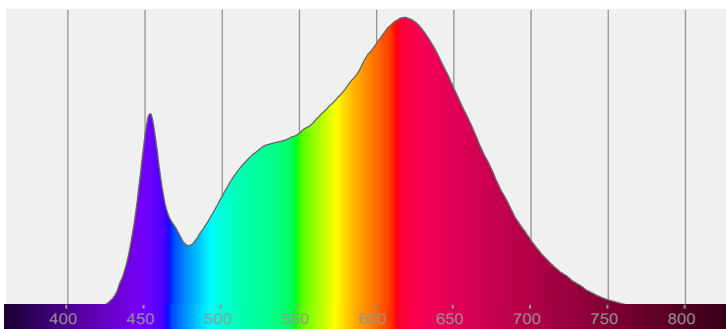
Date and time:

3/9/2022 3:50:36 PM

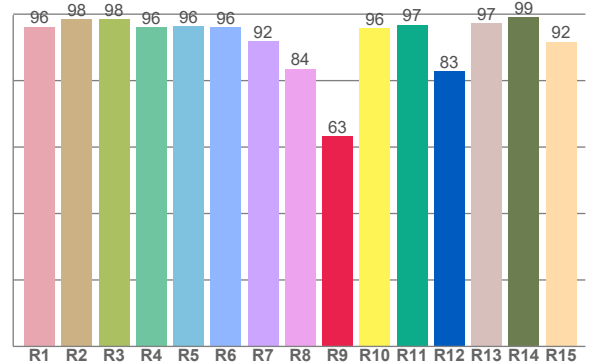
Delivered Lumens

1237

Spectra



CRI: 94.6 (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
94.6	63.3	92.2	100.5	91.8	0.425	0.394	0.247	0.344	-0.0025

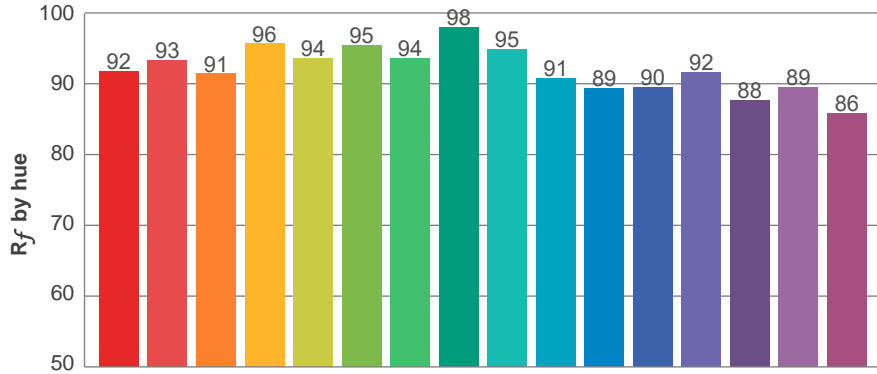
**$R_f$  92.2**  
Fidelity index  $R_f$

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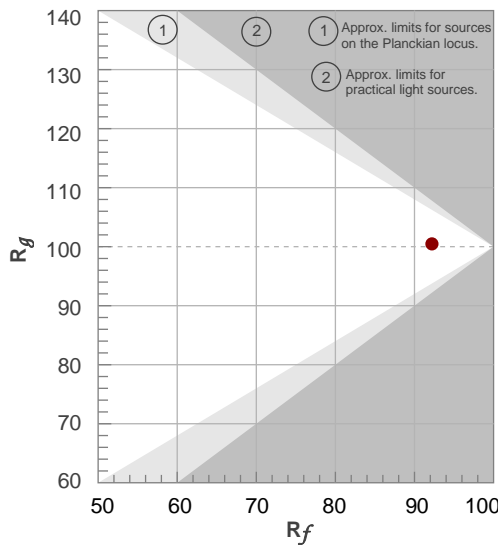
**$R_g$  100.5**  
Gammut index  $R_g$

TM30: 92.2

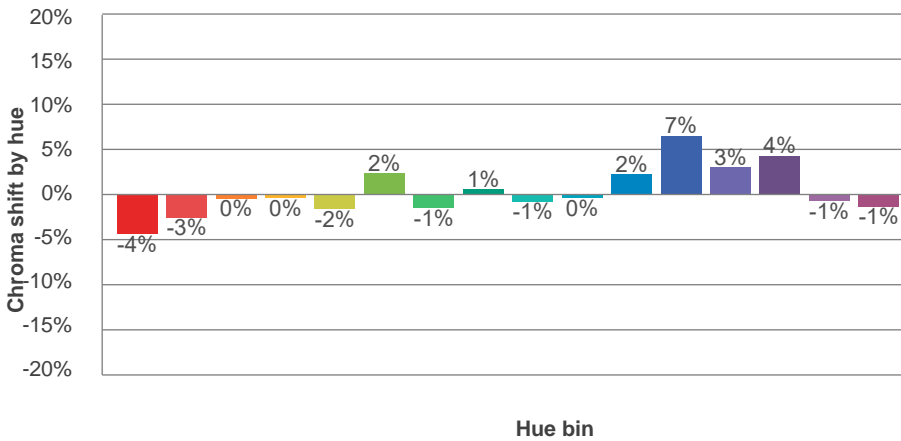
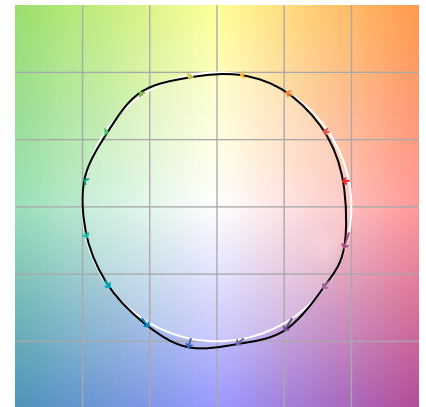
TM-30Color



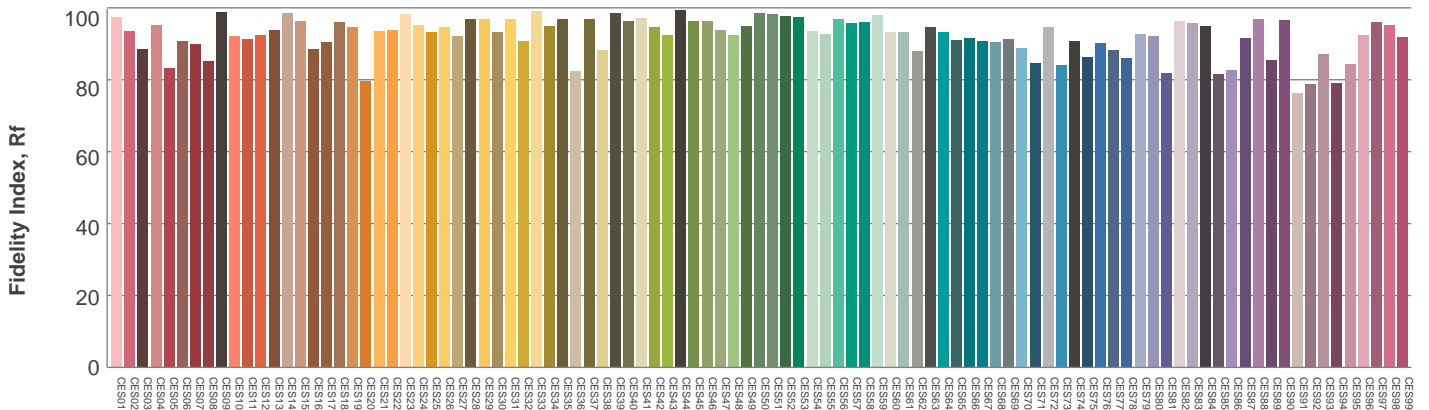
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-1%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	90	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



Color vector graphics

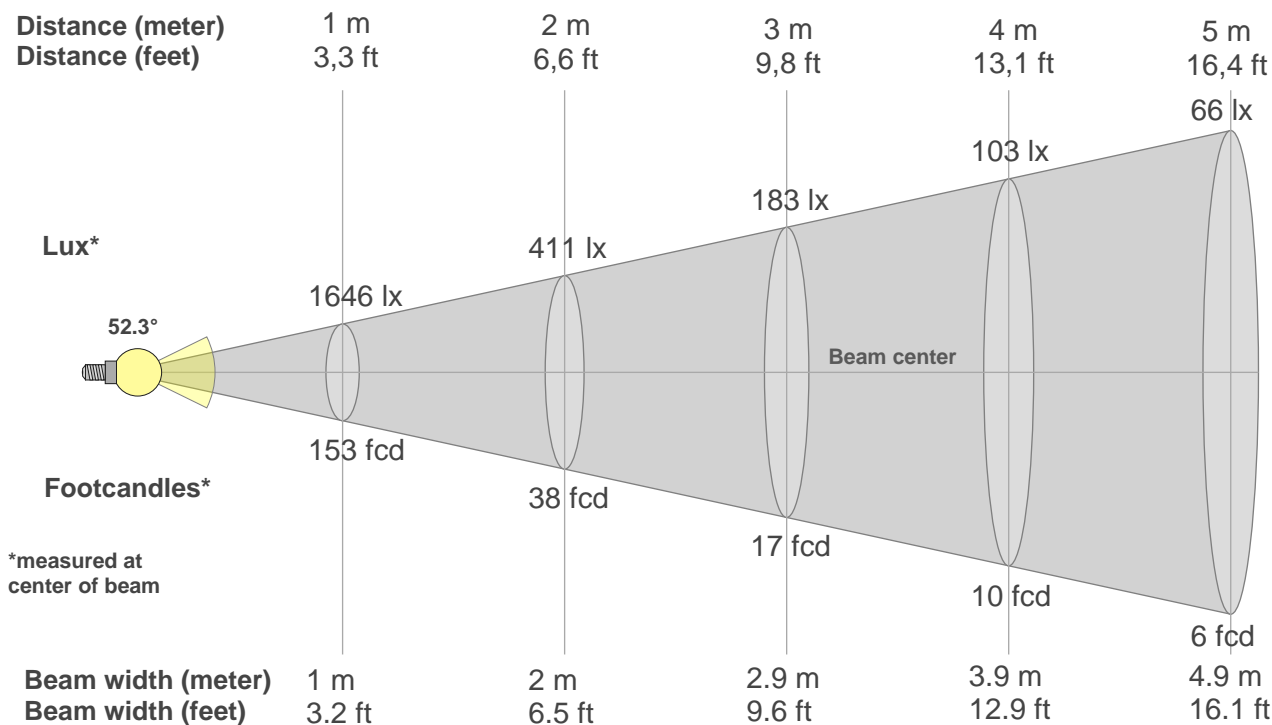


Color distortion



Color Evaluation Sample

### 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
1646lx	411lx	183lx	103lx	66lx	46lx	34lx	26lx	20lx	16lx	14lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx	4lx
152.9fcd	38.2fcd	17fcd	9.6fcd	6.1fcd	4.2fcd	3.1fcd	2.4fcd	1.9fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

#### 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°
1646	1638	1629	1616	1593	1565	1528	1477	1413	1330	1228	1109	975	830	685	550	432	333	253	190
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	75%	67%	59%	50%	42%	33%	26%	20%	15%	12%

#### 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°
1646	1646	1647	1633	1612	1584	1546	1491	1424	1340	1239	1119	984	839	696	559	437	336	256	195
100%	100%	100%	99%	98%	96%	94%	91%	86%	81%	75%	68%	60%	51%	42%	34%	27%	20%	16%	12%

#### 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°
1646	1646	1640	1625	1605	1575	1534	1480	1414	1328	1225	1105	971	830	684	549	430	330	252	190
100%	100%	100%	99%	97%	96%	93%	90%	86%	81%	74%	67%	59%	50%	42%	33%	26%	20%	15%	12%

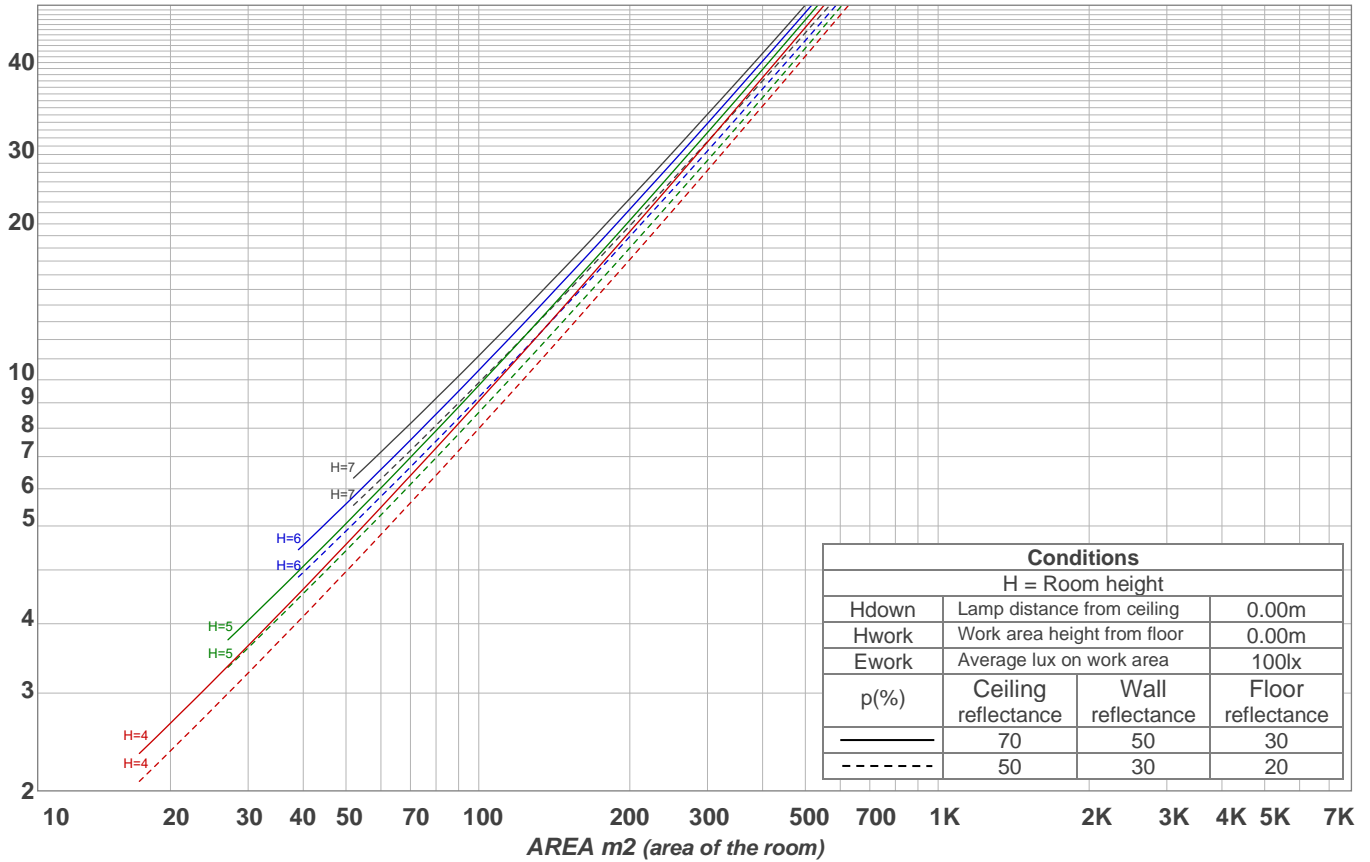
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1646	1643	1633	1617	1593	1567	1529	1478	1414	1333	1231	1113	981	839	693	555	438	338	257	194
100%	100%	99%	98%	97%	95%	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
52.3°	78.2°	96.1°	98.9%	96.2%

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

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
154 lm	402 lm	407 lm	189 lm	56.4 lm	14.6 lm	7.01 lm	3.42 lm	3.03 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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