

Light efficiency:



Output: 1226 lm

Light quality:

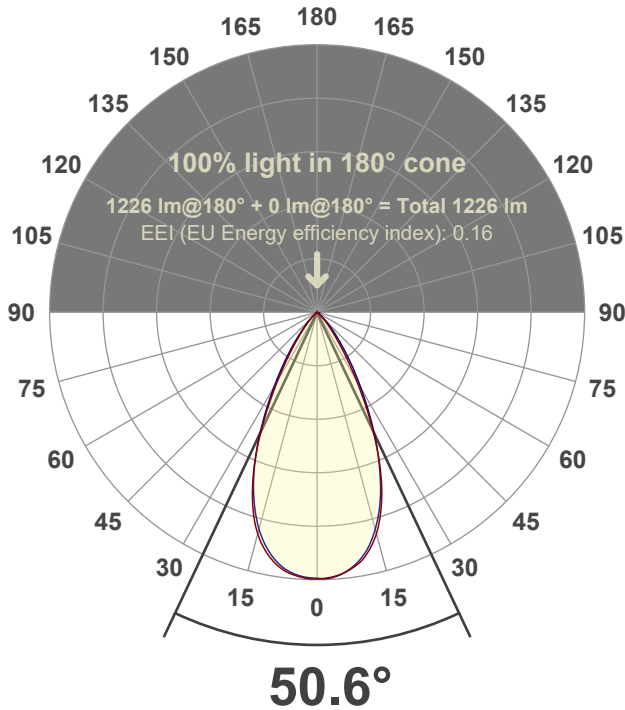


Peak: 1703 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

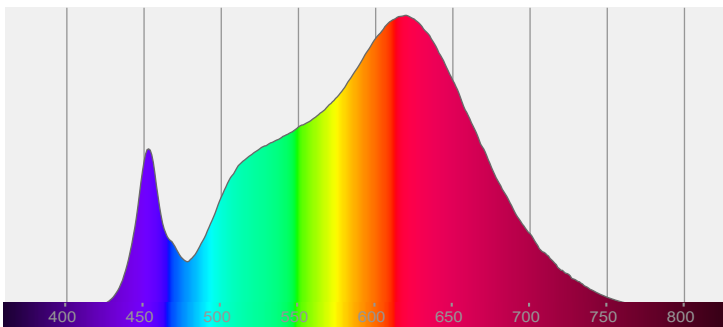
Date and time:

6/30/2022 7:28:14 PM

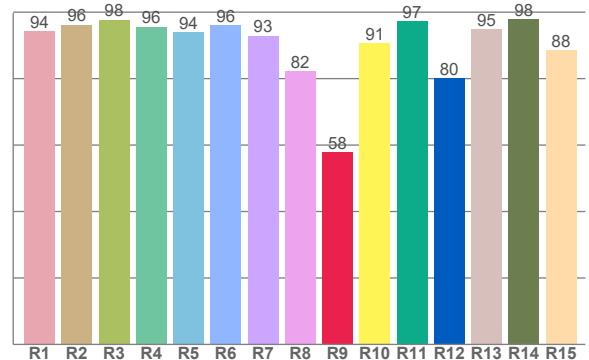
Delivered Lumens

1226

Spectra



CRI: 93.6 (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 divition from black body
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
93.6	57.8	92.3	99.3	91.9	0.438	0.408	0.249	0.349	0.0014

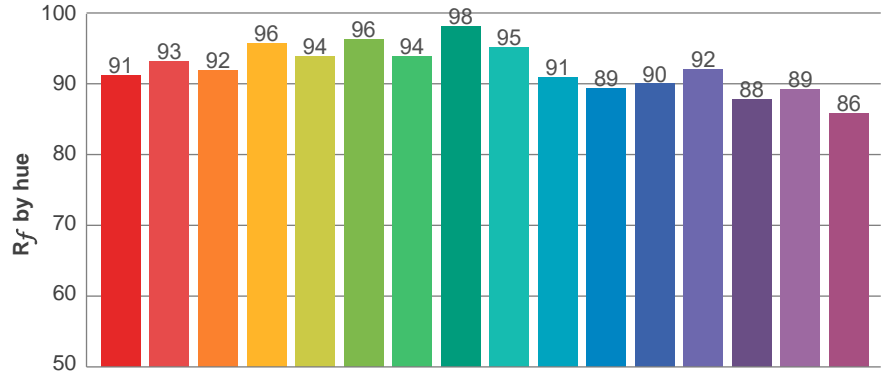
**$R_f$  92.3**  
Fidelity index  $R_f$

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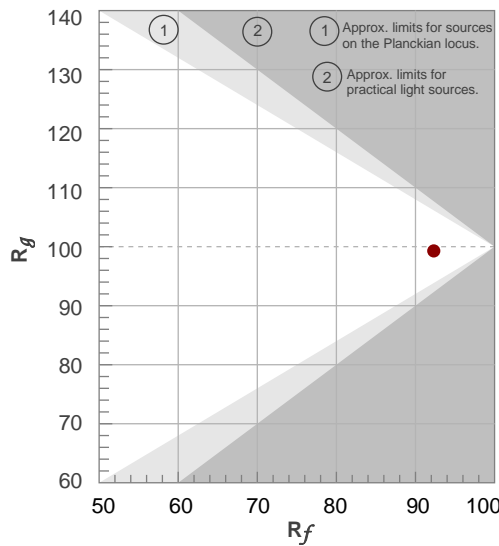
**$R_g$  99.3**  
Gammut index  $R_g$

TM30: 92.3

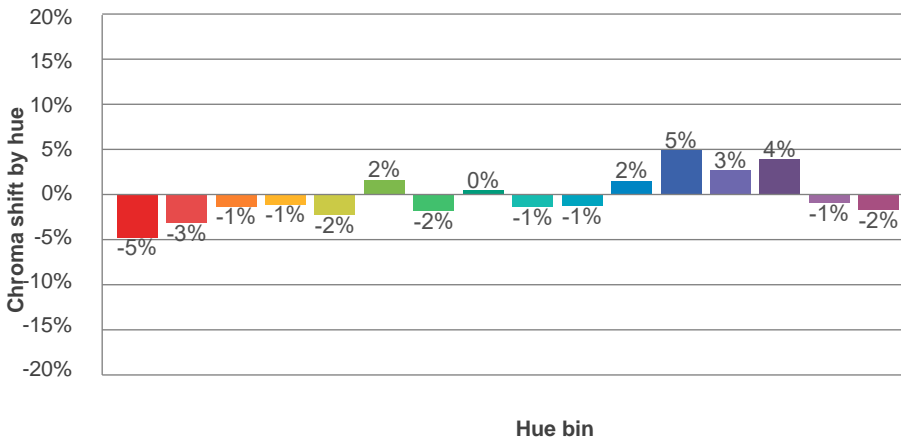
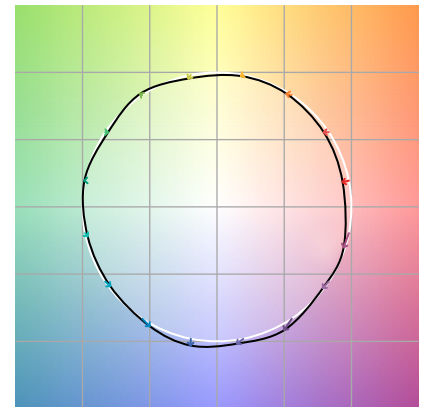
TM-30Color



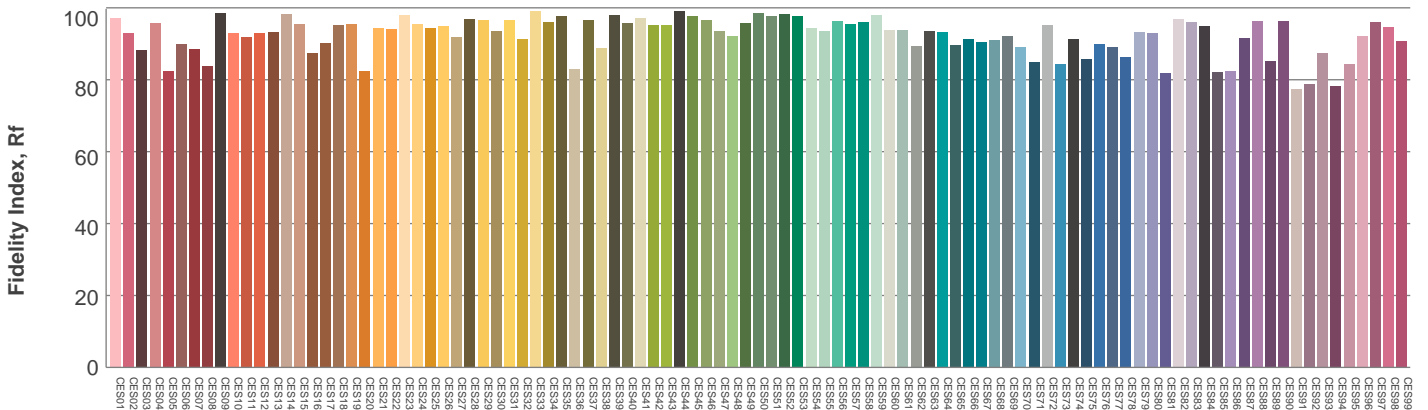
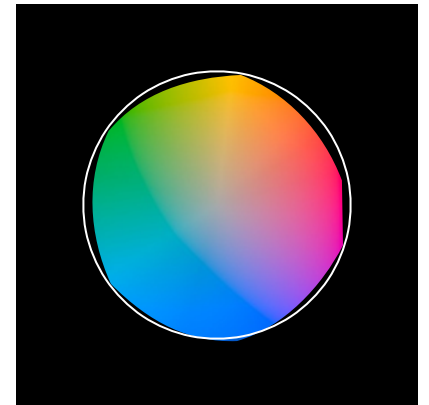
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



Color vector graphics

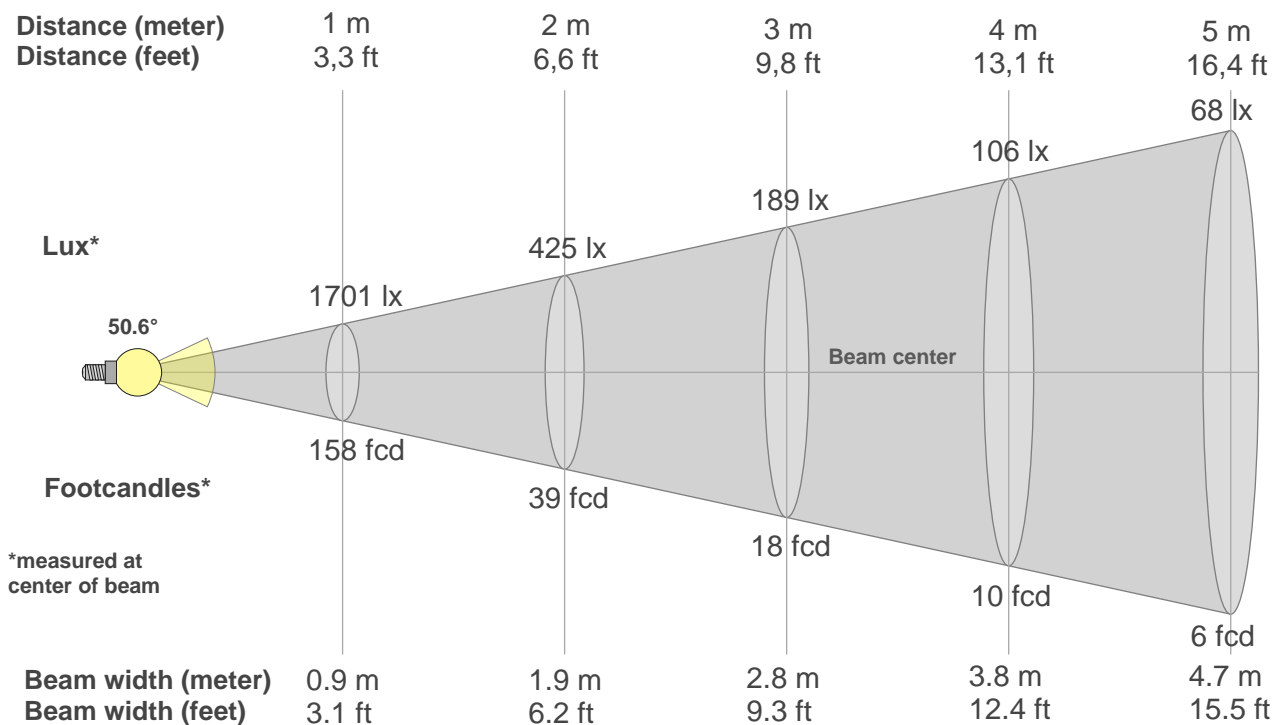


Color distortion



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
1701lx	425lx	189lx	106lx	68lx	47lx	35lx	27lx	21lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
158fcd	39.5fcd	17.6fcd	9.9fcd	6.3fcd	4.4fcd	3.2fcd	2.5fcd	2fcd	1.6fcd	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°
1701	1698	1688	1672	1648	1614	1564	1500	1420	1324	1210	1080	938	791	646	512	400	308	233	175
100%	100%	99%	98%	97%	95%	92%	88%	84%	78%	71%	63%	55%	47%	38%	30%	24%	18%	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°
1701	1701	1691	1670	1640	1599	1546	1474	1391	1296	1187	1066	941	812	686	569	467	377	301	237
100%	100%	99%	98%	96%	94%	91%	87%	82%	76%	70%	63%	55%	48%	40%	33%	27%	22%	18%	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°
1701	1702	1691	1676	1650	1613	1565	1503	1422	1324	1209	1080	939	791	647	515	400	307	234	177
100%	100%	99%	99%	97%	95%	92%	88%	84%	78%	71%	64%	55%	46%	38%	30%	24%	18%	14%	10%

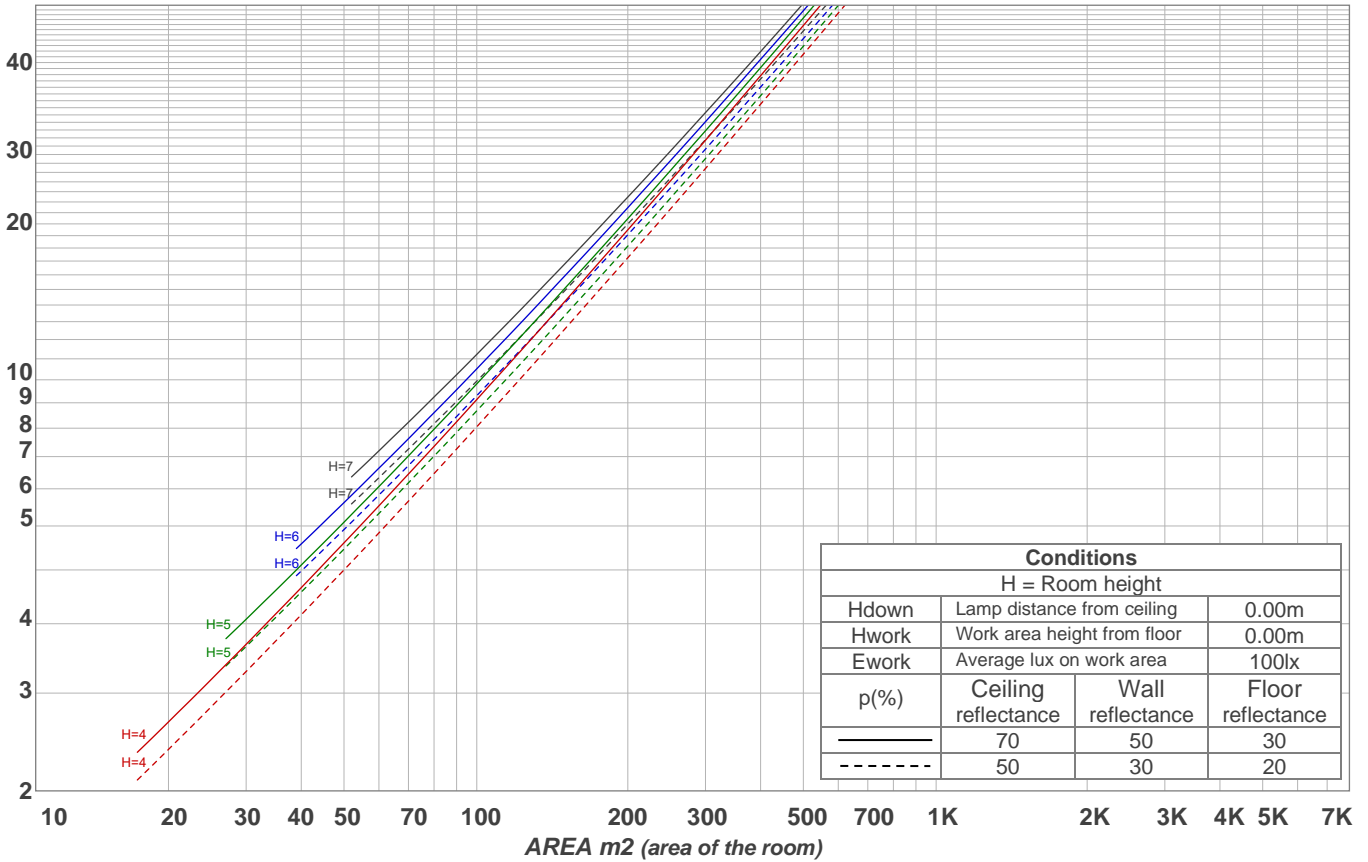
**Intensities in 270° c-plane**

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1701	1695	1684	1665	1637	1596	1540	1472	1390	1296	1191	1072	943	811	679	556	449	357	278	211
100%	100%	99%	98%	96%	94%	91%	87%	82%	76%	70%	63%	55%	48%	40%	33%	26%	21%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50.6°	78.3°	96.3°	99.1%	96.5%

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	96	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	88	86	84	82	82	82	
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77	
5	94	86	80	76	92	85	80	76	83	79	75	81	78	75	80	77	74	72	72	72	
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68	68	68	
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64	64	64	
8	82	72	67	63	80	72	67	63	71	66	63	70	65	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	57	57	57	
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54	54	54	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
158 lm	400 lm	393 lm	191 lm	60.2 lm	12.7 lm	4.89 lm	2.82 lm	2.58 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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