

Light efficiency:



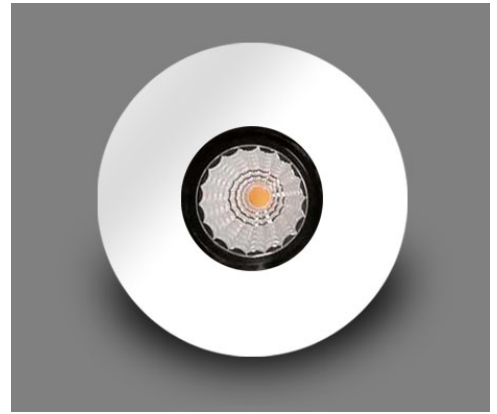
Output: 866 lm

Light quality:

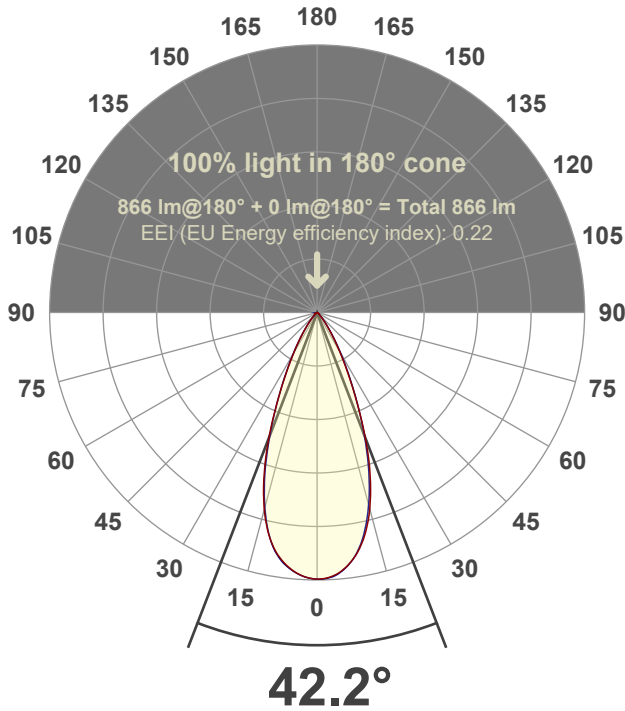


Peak: 1572 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

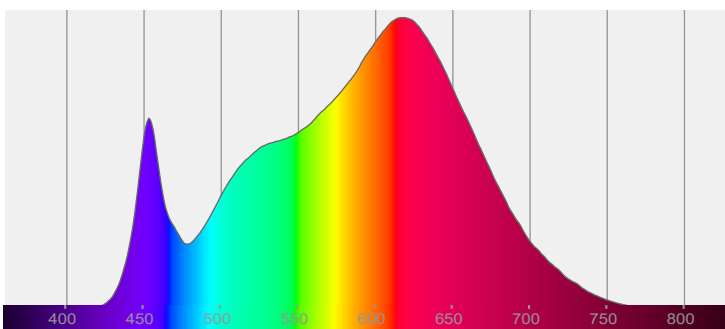
Date and time:

3/9/2022 3:46:16 PM

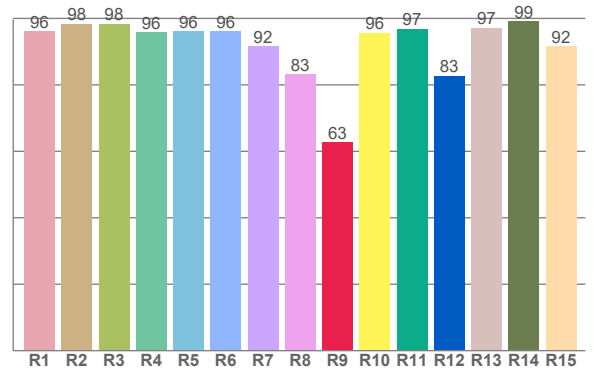
Delivered Lumens

866

Spectra



CRI: 94.5 (R1-R8)



Color parameters

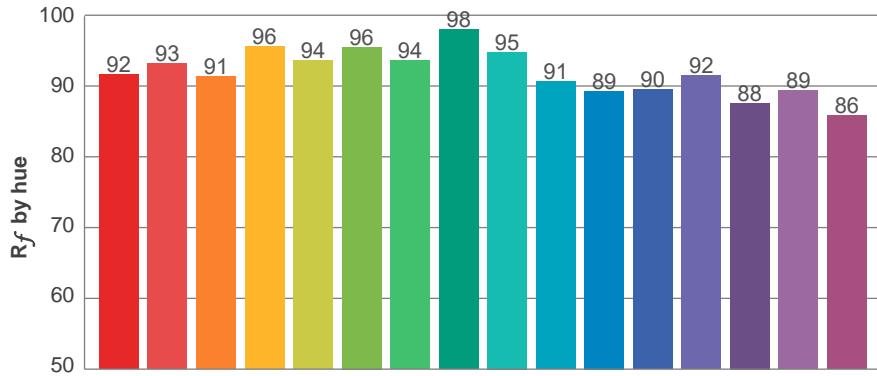
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	62.6	92.1	100.4	91.8	0.425	0.394	0.247	0.344	-0.0024

R_f 92.1
Fidelity index R_f

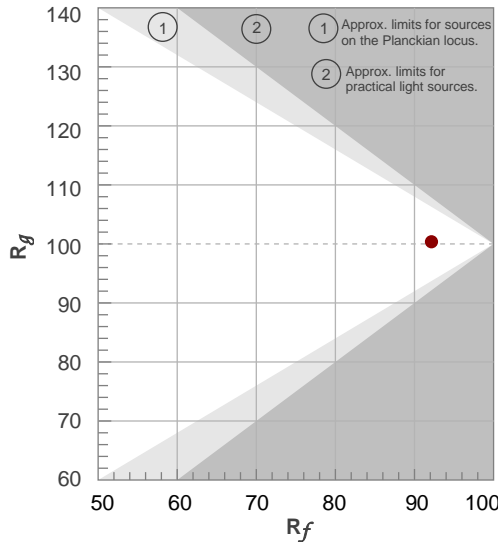
R_g 100.4
Gammut index R_g

TM30: 92.1

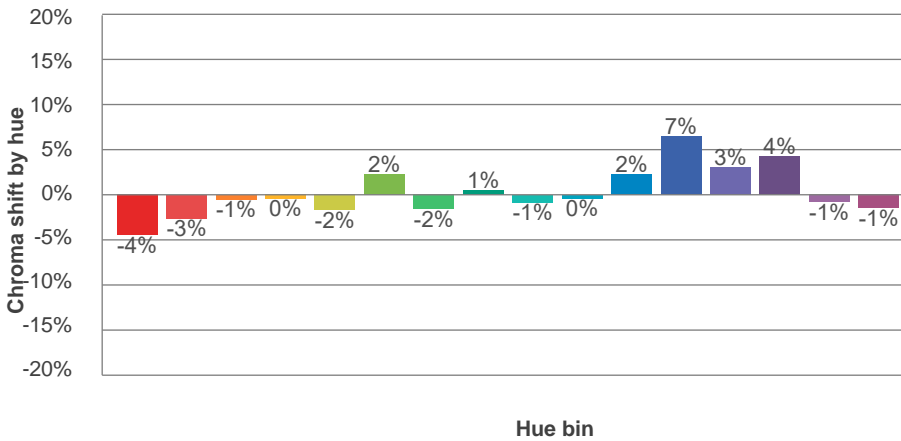
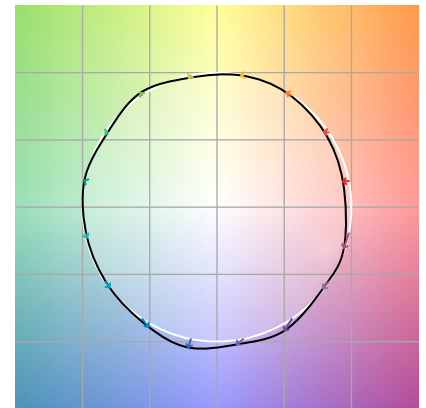
TM-30Color



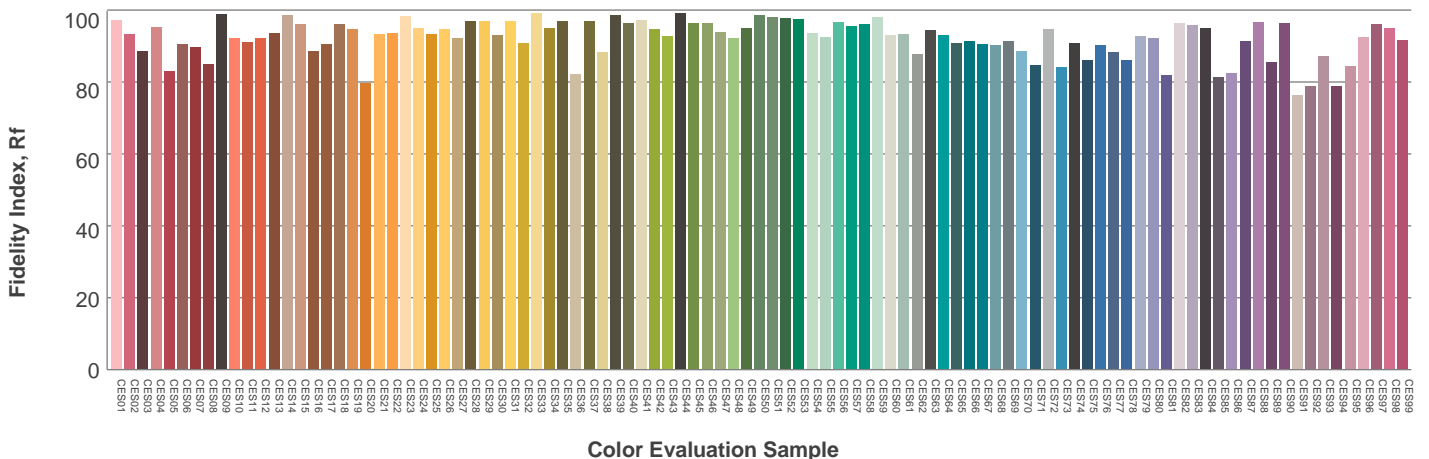
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	-1%	4%
4	96	0%	1%
5	94	-2%	2%
6	96	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	90	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



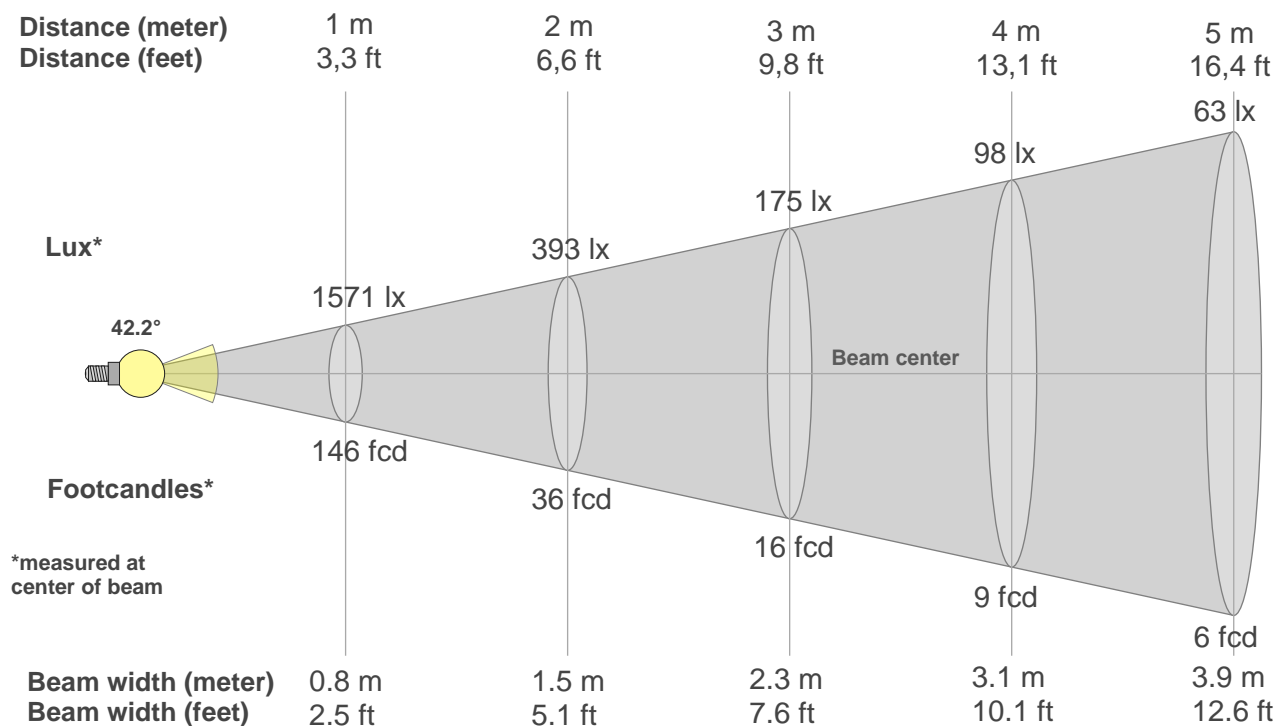
Color vector graphics



Color distortion



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
1571lx	393lx	175lx	98lx	63lx	44lx	32lx	25lx	19lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
145.9fcd	36.5fcd	16.2fcd	9.1fcd	5.8fcd	4.1fcd	3fcd	2.3fcd	1.8fcd	1.5fcd	1.2fcd	1fcd	0.9fcd	0.7fcd	0.6fcd	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°
1571	1566	1548	1518	1475	1419	1346	1252	1140	1014	875	726	582	460	360	279	213	161	122	92
100%	100%	99%	97%	94%	90%	86%	80%	73%	65%	56%	46%	37%	29%	23%	18%	14%	10%	8%	6%

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°
1571	1567	1554	1521	1475	1412	1330	1230	1117	989	853	716	585	467	370	290	223	169	126	93
100%	100%	99%	97%	94%	90%	85%	78%	71%	63%	54%	46%	37%	30%	24%	18%	14%	11%	8%	6%

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°
1571	1563	1545	1516	1476	1424	1351	1256	1143	1015	874	726	585	466	367	286	221	170	129	97
100%	100%	98%	97%	94%	91%	86%	80%	73%	65%	56%	46%	37%	30%	23%	18%	14%	11%	8%	6%

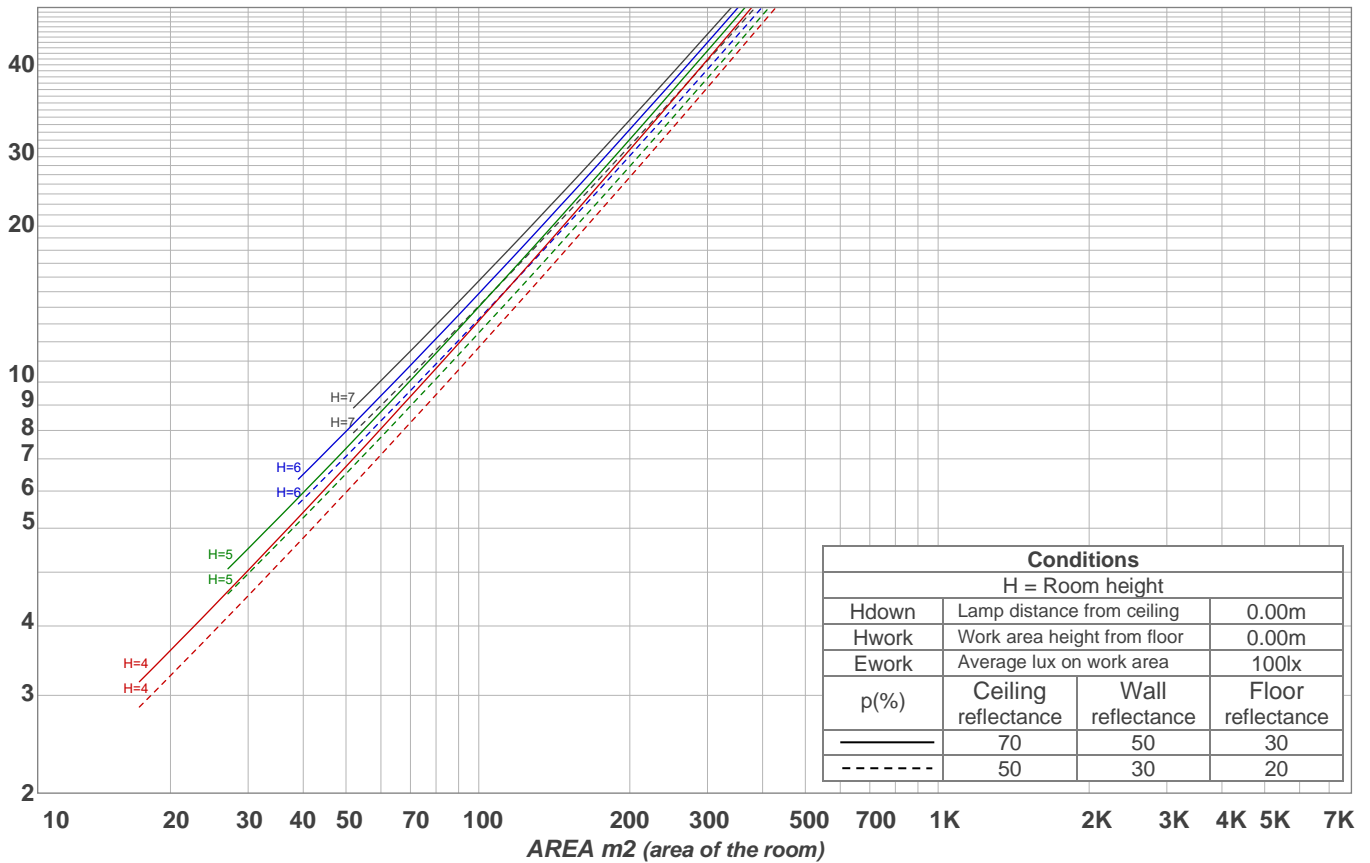
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1571	1563	1546	1520	1482	1426	1347	1247	1130	999	855	714	584	468	370	290	227	174	132	99
100%	99%	98%	97%	94%	91%	86%	79%	72%	64%	54%	45%	37%	30%	24%	18%	14%	11%	8%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42.2°	69°	88.4°	97.7%	95.1%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
143 lm	325 lm	242 lm	95.7 lm	29.2 lm	11.8 lm	8.70 lm	7.07 lm	4.22 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