

Light efficiency:



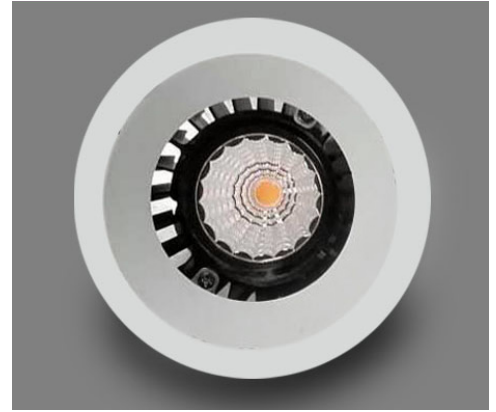
Output: 1355 lm

Light quality:

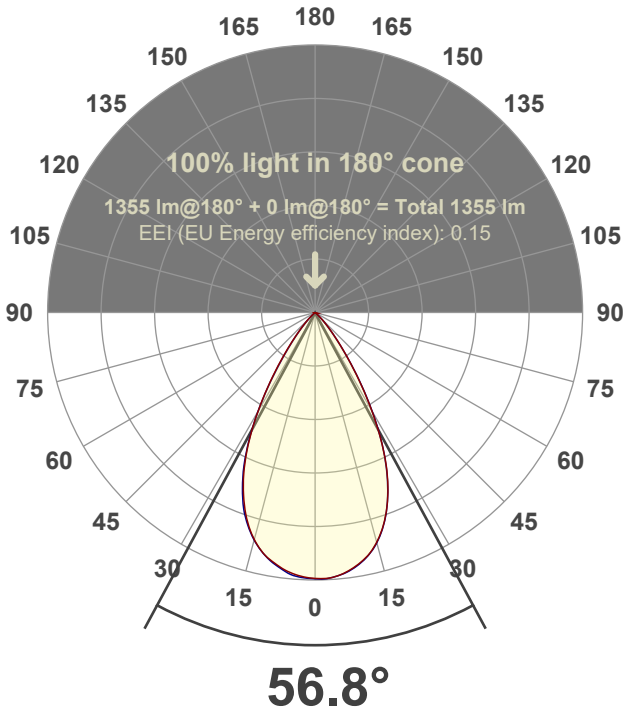


Peak: 1630 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

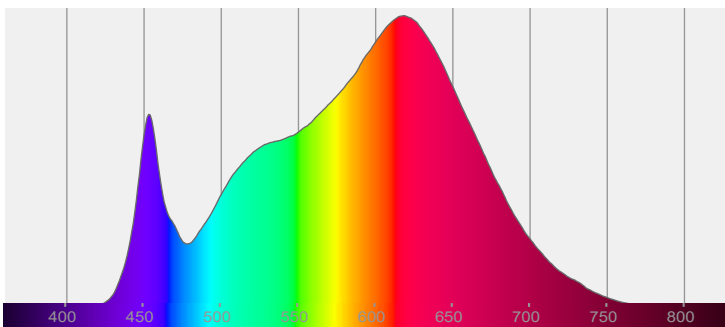
Date and time:

3/2/2022 10:41:09 PM

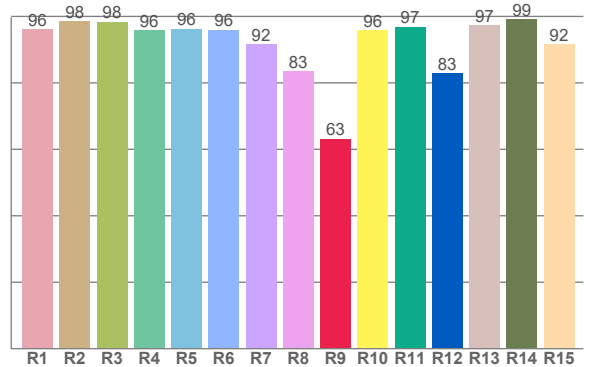
Delivered Lumens

1355

Spectra



CRI: 94.5 (R1-R8)



Color parameters

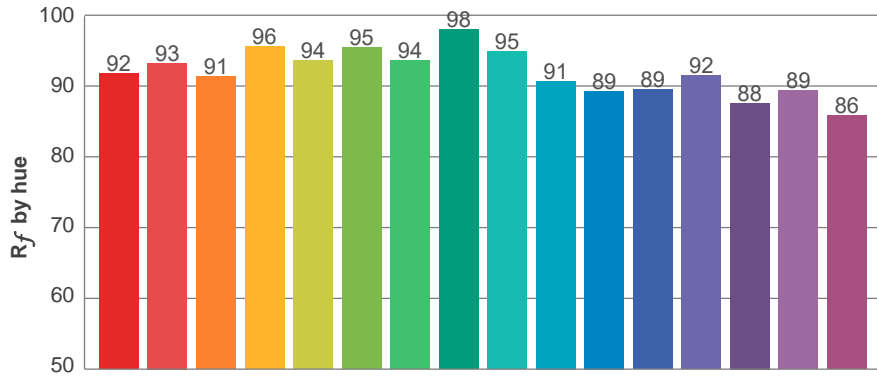
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.2	92.2	100.4	91.8	0.425	0.394	0.248	0.344	-0.0025

R_f 92.2
Fidelity index R_f

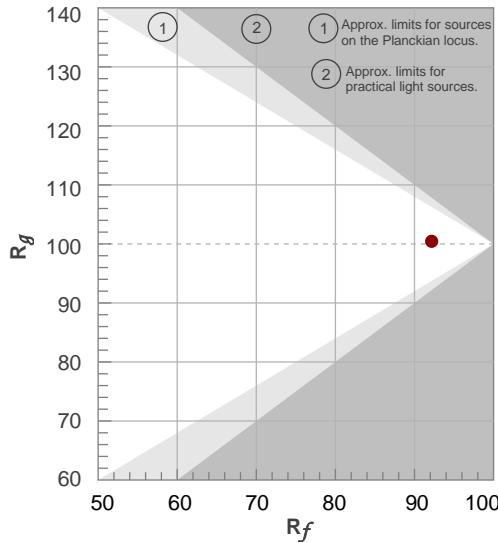
R_g 100.4
Gammut index R_g

TM30: 92.2

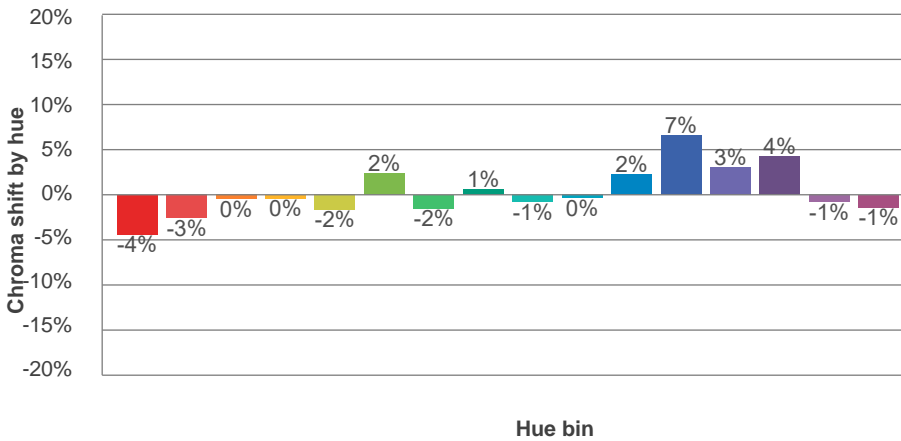
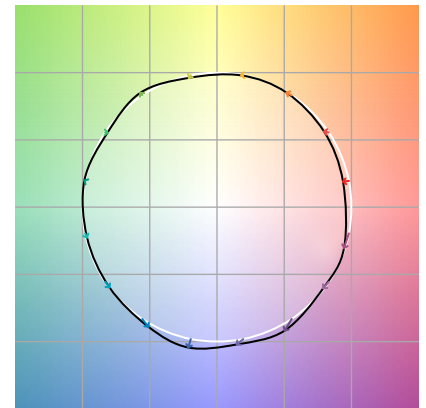
TM-30Color



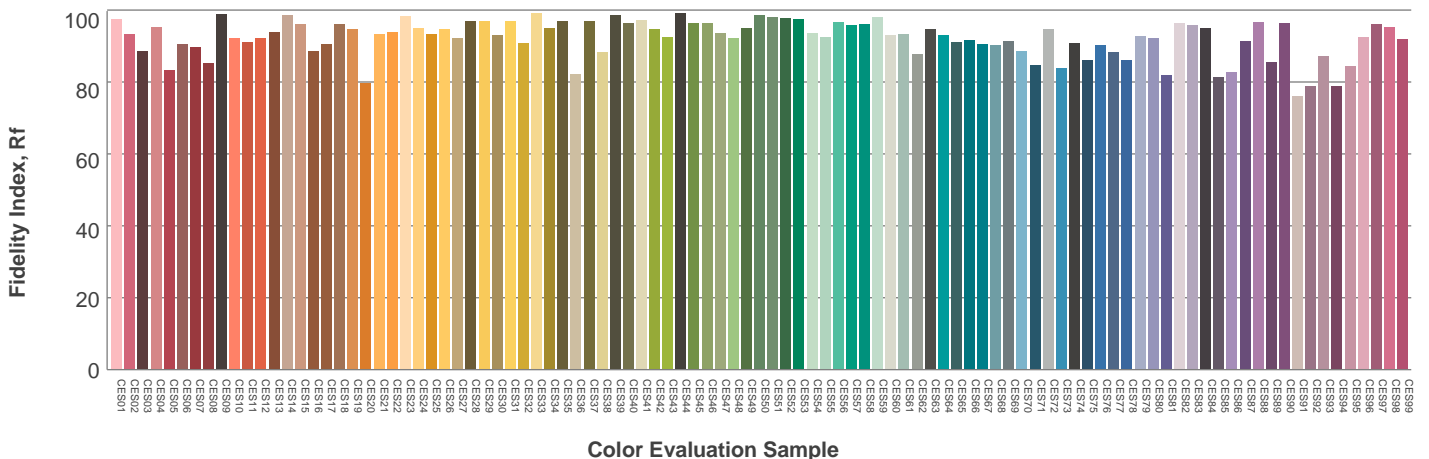
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



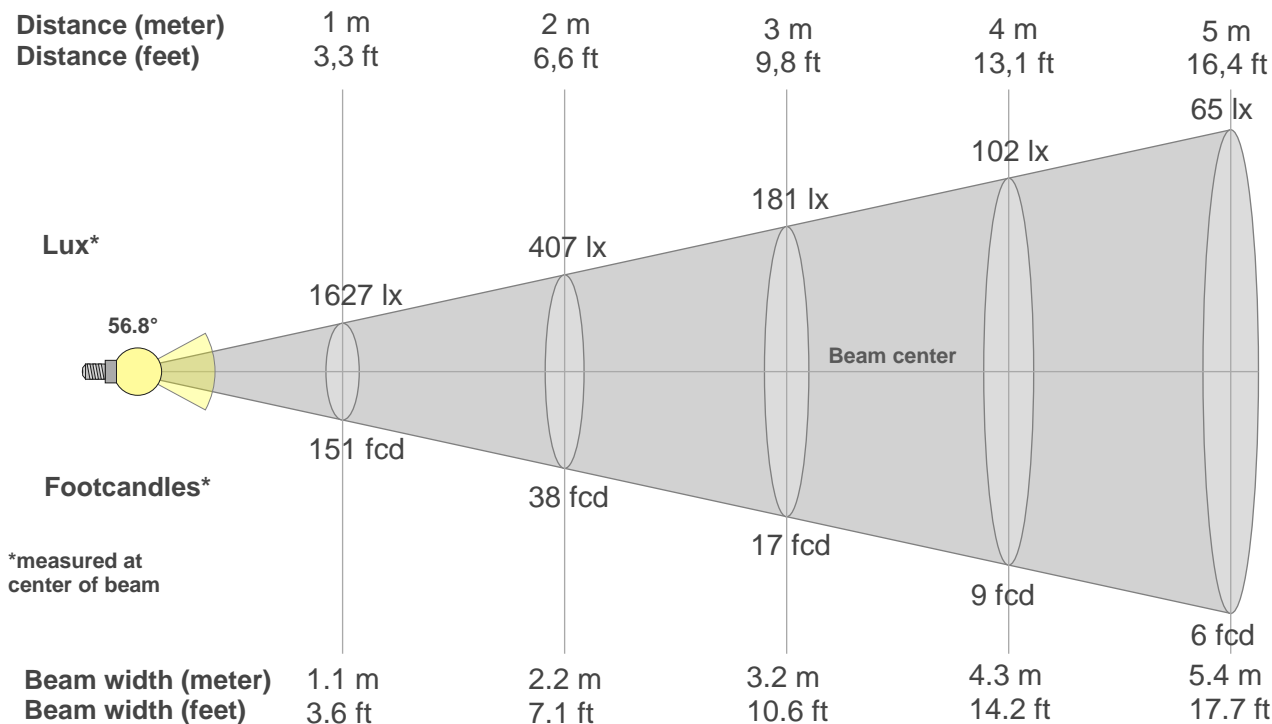
Color vector graphics



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
1627lx	407lx	181lx	102lx	65lx	45lx	33lx	25lx	20lx	16lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx	4lx
151.1fcd	37.8fcd	16.8fcd	9.4fcd	6fcd	4.2fcd	3.1fcd	2.4fcd	1.9fcd	1.5fcd	1.2fcd	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°
1627	1627	1621	1607	1585	1558	1524	1480	1425	1360	1281	1190	1086	969	839	702	569	446	340	253
100%	100%	100%	99%	97%	96%	94%	91%	88%	84%	79%	73%	67%	60%	52%	43%	35%	27%	21%	16%

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°
1627	1630	1621	1608	1588	1561	1528	1484	1428	1360	1280	1188	1084	968	841	707	574	447	335	246
100%	100%	100%	99%	98%	96%	94%	91%	88%	84%	79%	73%	67%	59%	52%	43%	35%	27%	21%	15%

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°
1627	1620	1609	1592	1568	1541	1509	1464	1408	1341	1262	1173	1075	961	837	707	576	453	343	256
100%	100%	99%	98%	96%	95%	93%	90%	87%	82%	78%	72%	66%	59%	51%	43%	35%	28%	21%	16%

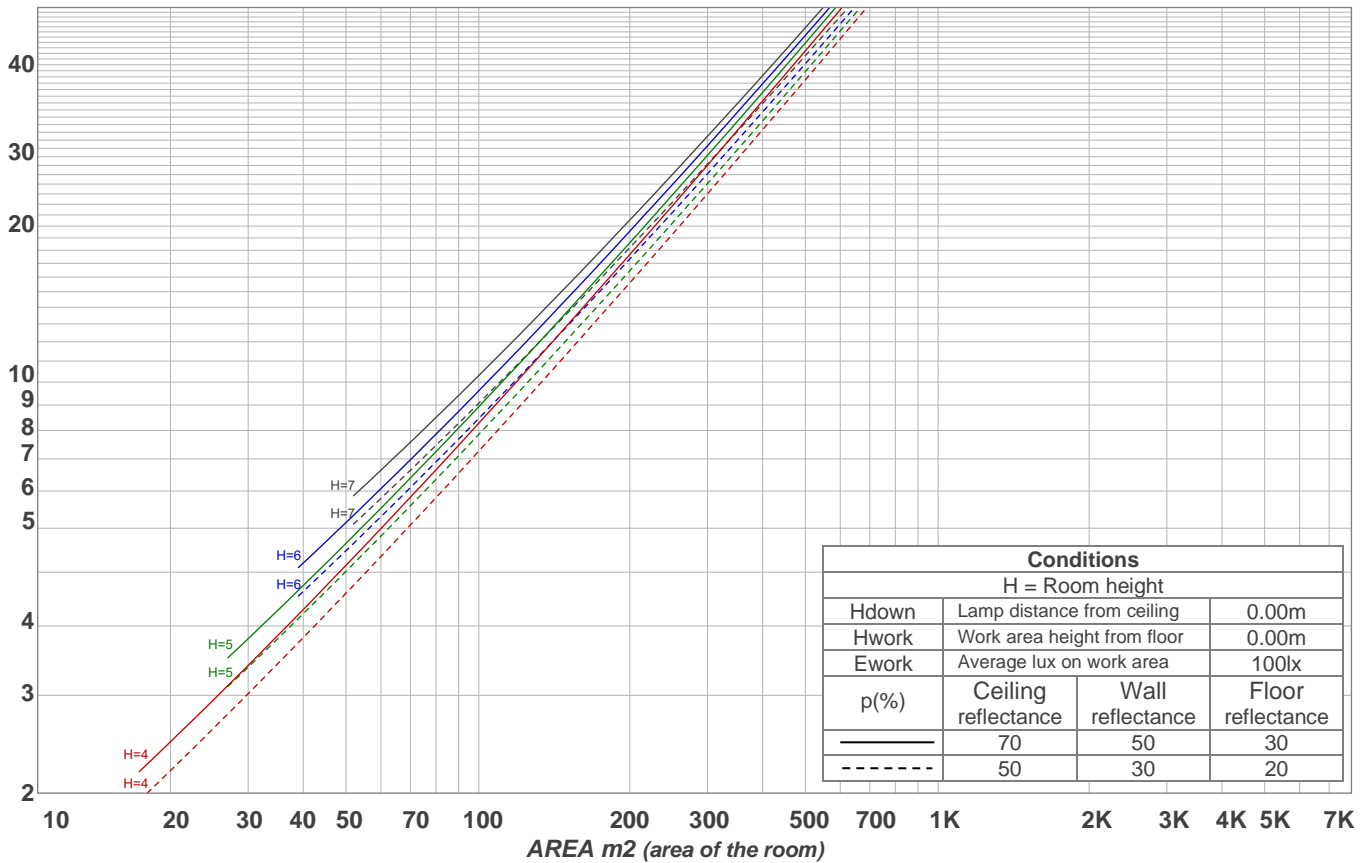
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1627	1625	1617	1601	1575	1546	1509	1465	1412	1350	1279	1187	1085	970	842	705	568	440	331	242
100%	100%	99%	98%	97%	95%	93%	90%	87%	83%	79%	73%	67%	60%	52%	43%	35%	27%	20%	15%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56.8°	81.2°	96.3°	98.9%	96.6%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
152 lm	403 lm	461 lm	249 lm	63.2 lm	12.8 lm	6.15 lm	4.52 lm	3.43 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