

Light efficiency:



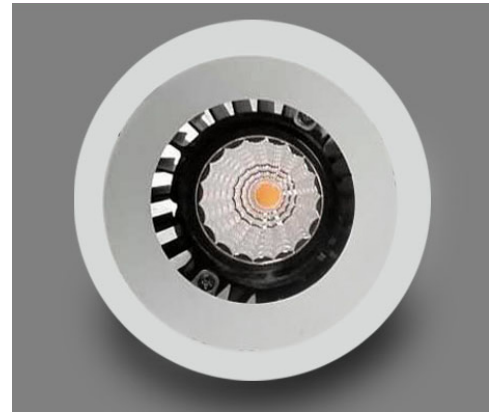
Output: 1841 lm

Light quality:

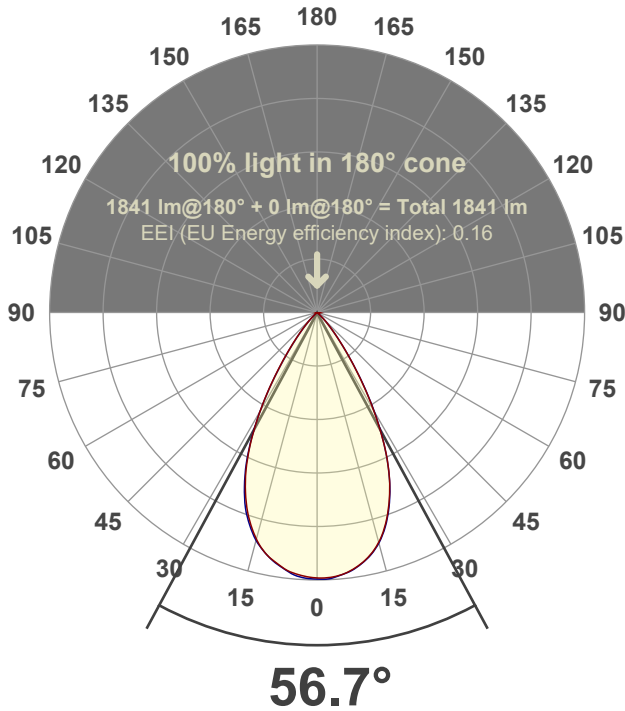


Peak: 2216 cd

Power: 20.8 W



Beam angle



Test number:

GR-O-F-CZ20-30k-WF-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-CZ20 30k 60° Optic-Solite

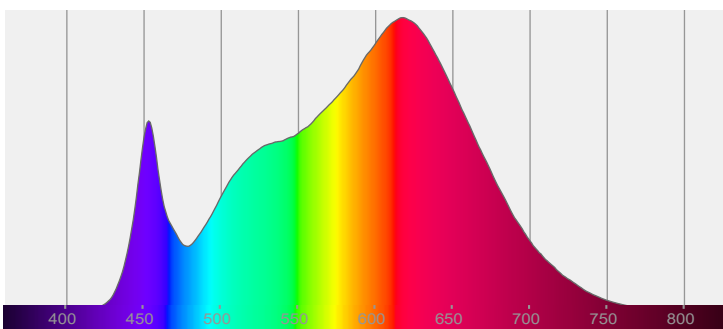
Date and time:

3/2/2022 10:38:29 PM

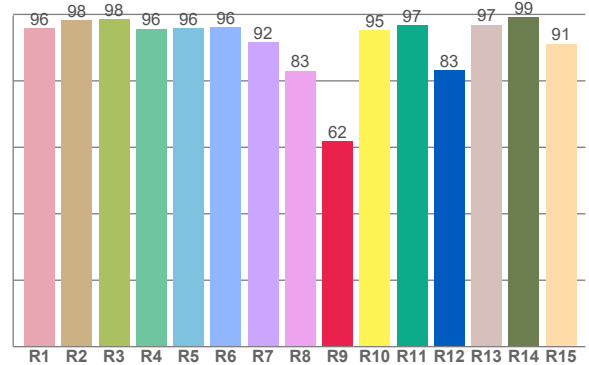
Delivered Lumens

1841

Spectra



CRI: 94.3 (R1-R8)



Color parameters

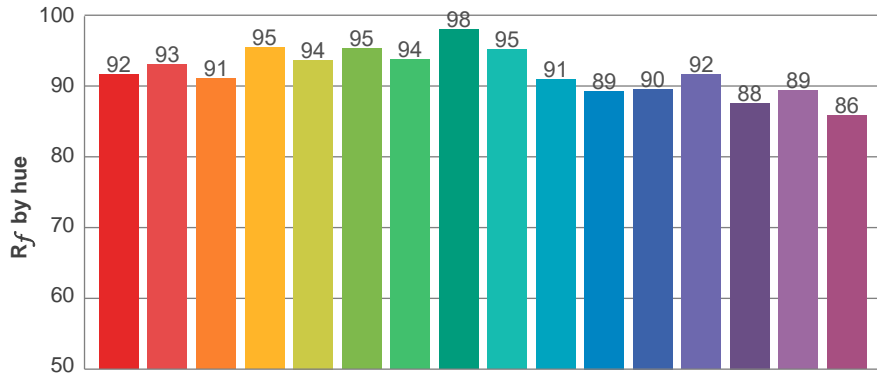
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.3	61.9	92.1	100.5	91.7	0.425	0.394	0.247	0.344	-0.0023

R_f 92.1
Fidelity index R_f

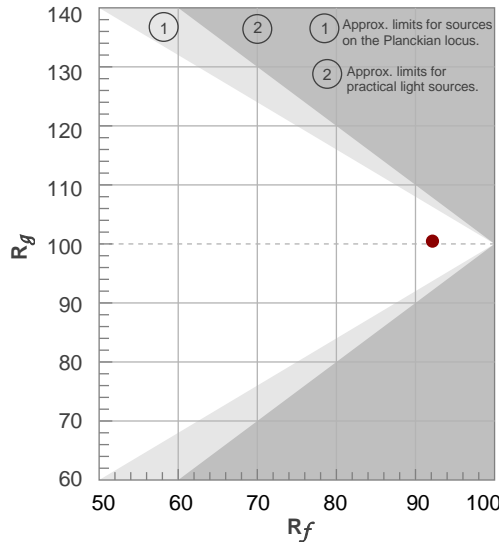
R_g 100.5
Gammut index R_g

TM30: 92.1

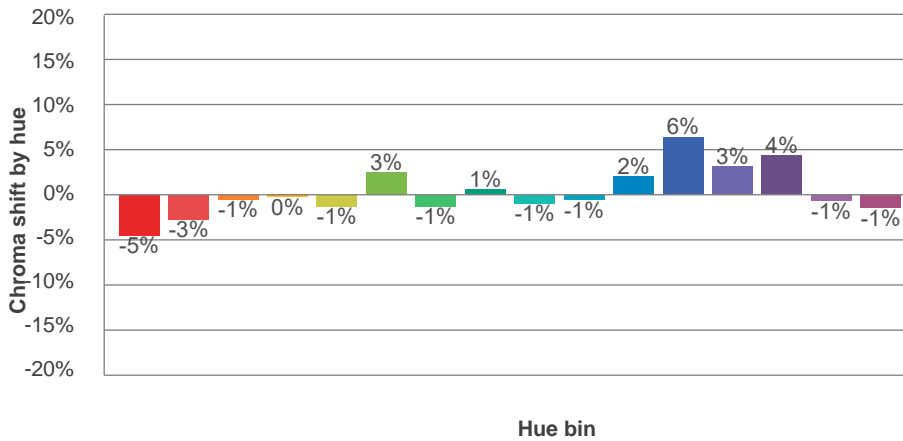
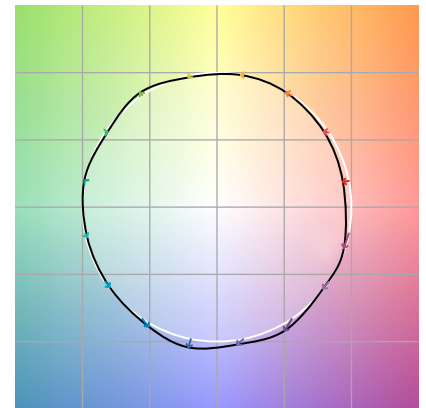
TM-30Color



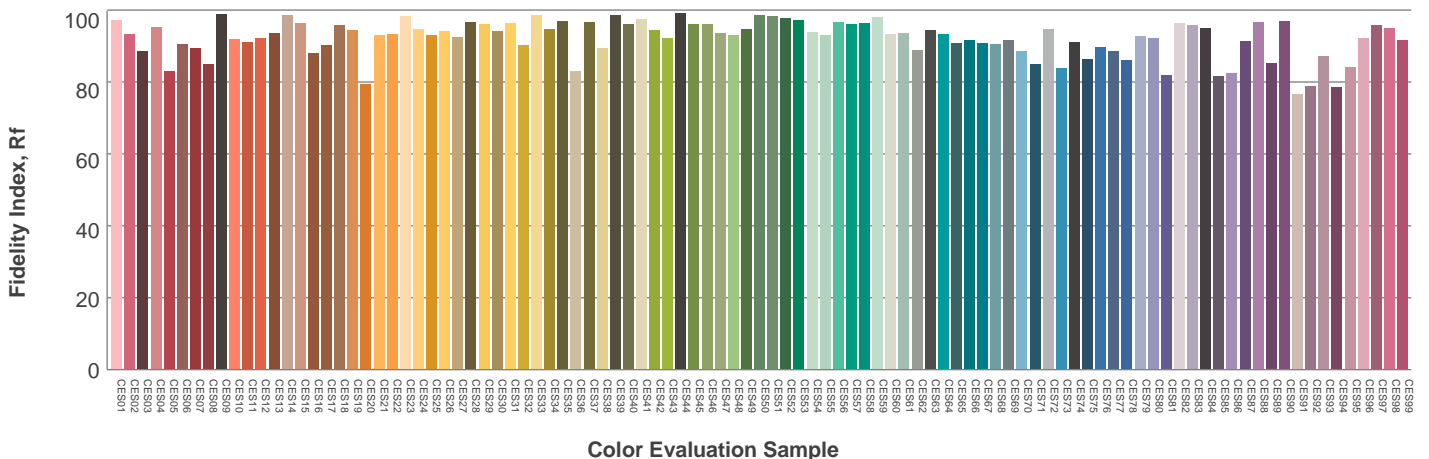
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-5%	0%
2	93	-3%	3%
3	91	-1%	4%
4	95	0%	2%
5	94	-1%	2%
6	95	3%	0%
7	94	-1%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	7%
12	90	6%	0%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



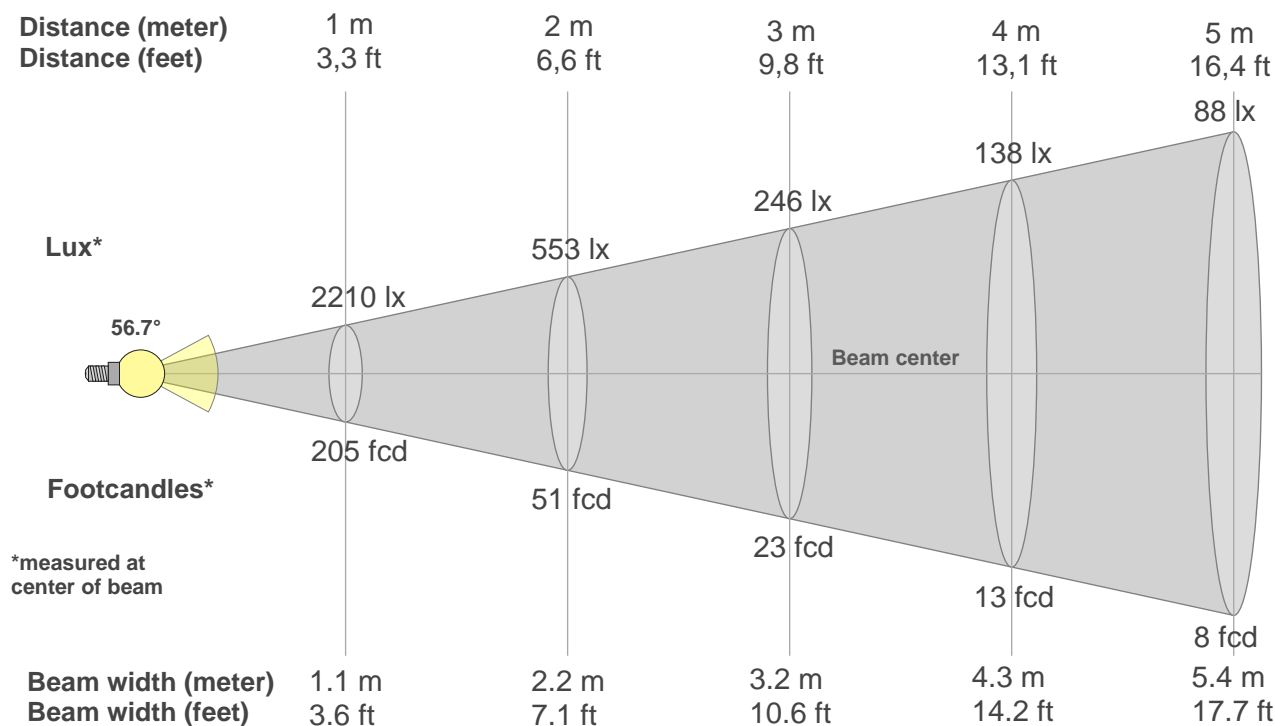
Color vector graphics



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
2210lx	553lx	246lx	138lx	88lx	61lx	45lx	35lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	6lx
205.4fcd	51.3fcd	22.8fcd	12.8fcd	8.2fcd	5.7fcd	4.2fcd	3.2fcd	2.5fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd

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°
2210	2205	2198	2182	2153	2117	2071	2013	1939	1844	1734	1611	1476	1318	1138	955	775	605	461	345
100%	100%	99%	99%	97%	96%	94%	91%	88%	83%	78%	73%	67%	60%	51%	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°
2210	2216	2203	2182	2158	2121	2075	2017	1943	1853	1743	1617	1473	1313	1142	961	781	611	458	332
100%	100%	100%	99%	98%	96%	94%	91%	88%	84%	79%	73%	67%	59%	52%	43%	35%	28%	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°
2210	2198	2185	2165	2132	2093	2049	1988	1908	1817	1713	1594	1460	1305	1136	959	781	614	469	348
100%	99%	99%	98%	96%	95%	93%	90%	86%	82%	77%	72%	66%	59%	51%	43%	35%	28%	21%	16%

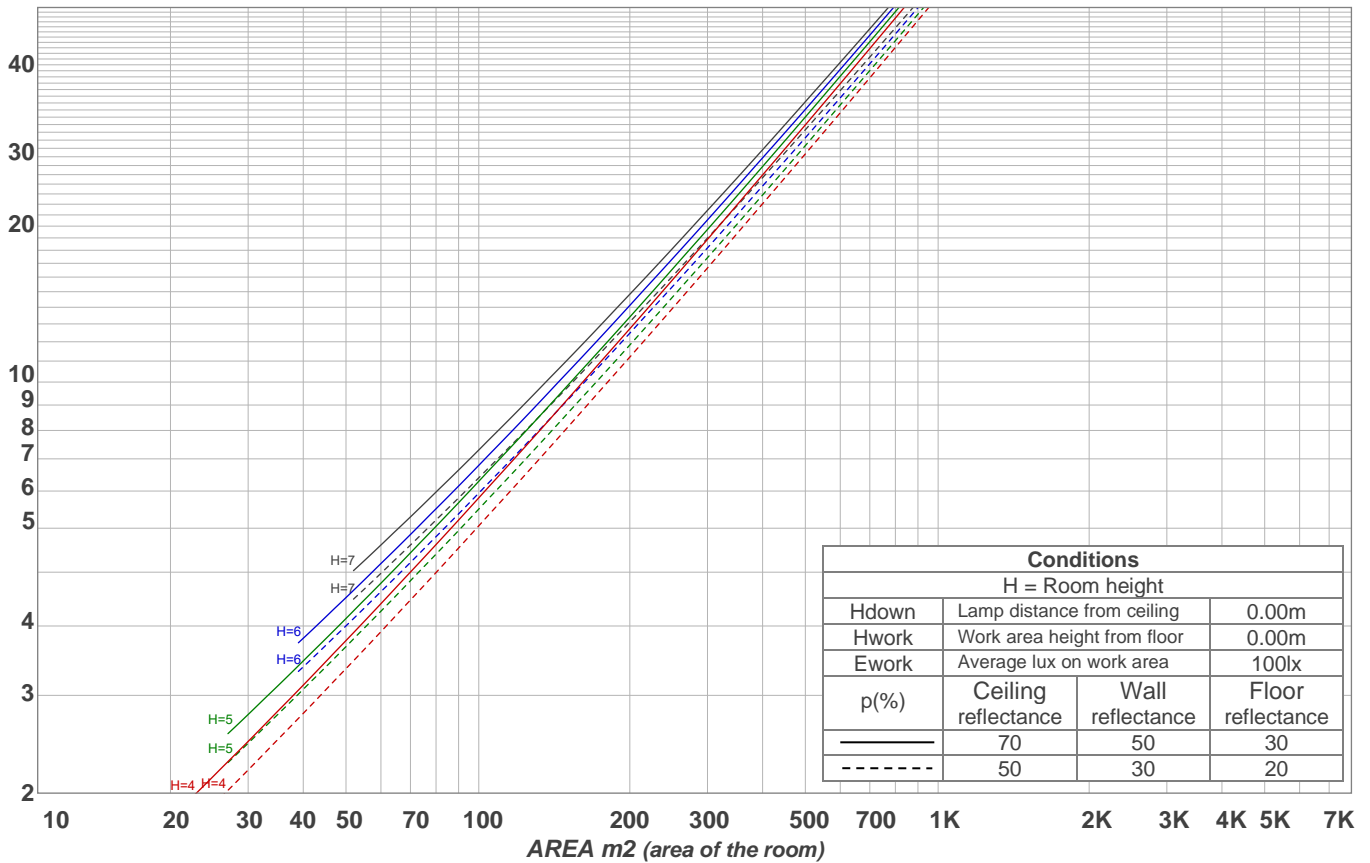
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2210	2211	2198	2172	2137	2099	2049	1992	1922	1837	1739	1614	1474	1318	1143	957	773	602	450	327
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
56.7°	81.2°	96.3°	99.0%	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	94	94	94	94
2	108	103	99	96	106	102	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	78	76	76	76	76
5	93	85	79	75	91	84	79	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	75	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	58	76	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°
206 lm	548 lm	626 lm	339 lm	86.2 lm	17.4 lm	7.96 lm	5.90 lm	4.38 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