

Light efficiency:



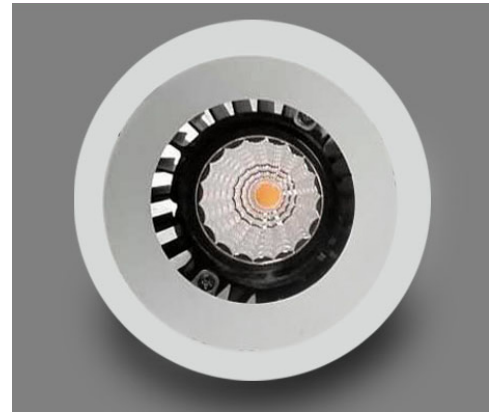
Output: 1880 lm

Light quality:

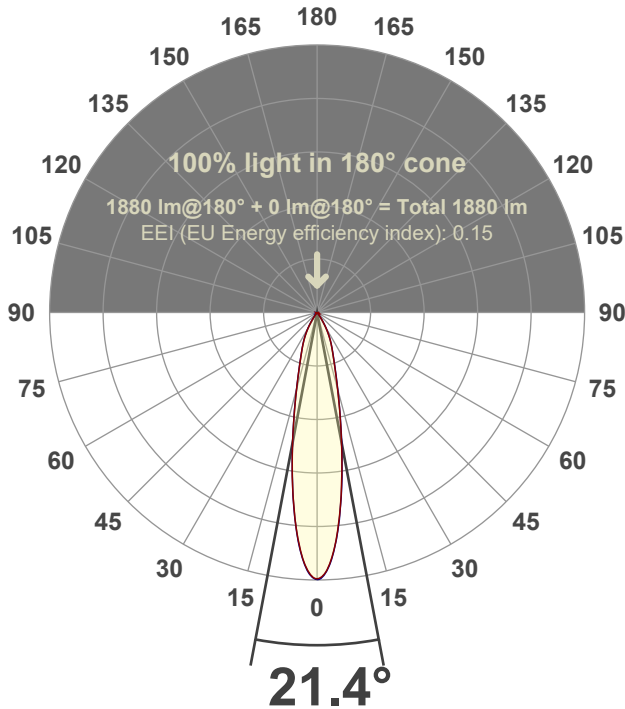


Peak: 7898 cd

Power: 20.8 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Round Fixed Downlight-CZ20 30k 15° Optic-Solite

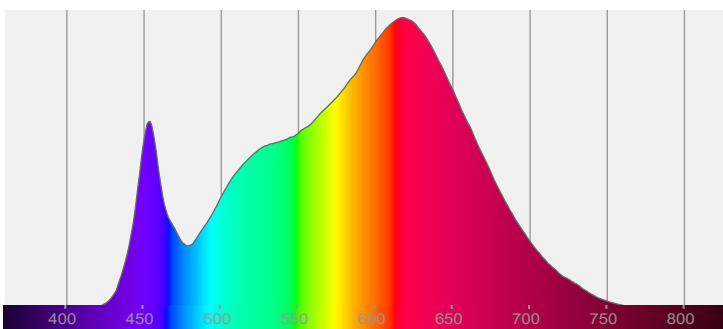
Date and time:

3/2/2022 11:22:49 PM

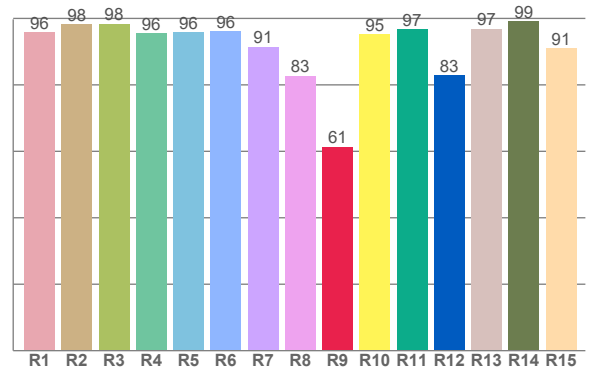
Delivered Lumens

1880

Spectra



CRI: 94.2 (R1-R8)



Color parameters

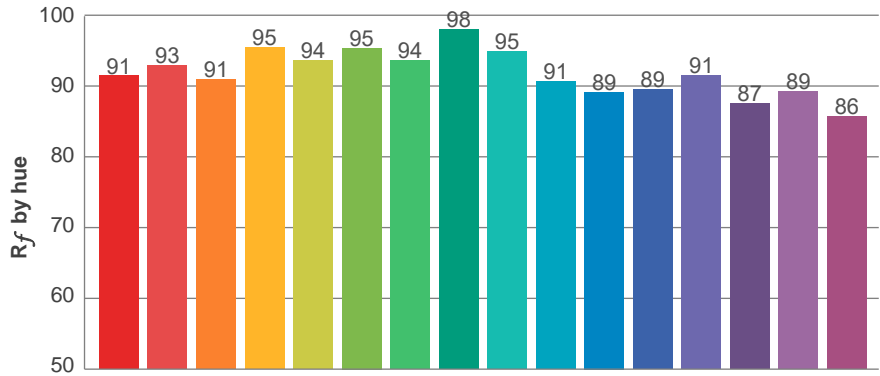
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.2	61.4	92.0	100.4	91.5	0.425	0.394	0.247	0.344	-0.0024

R_f 92.0
Fidelity index R_f

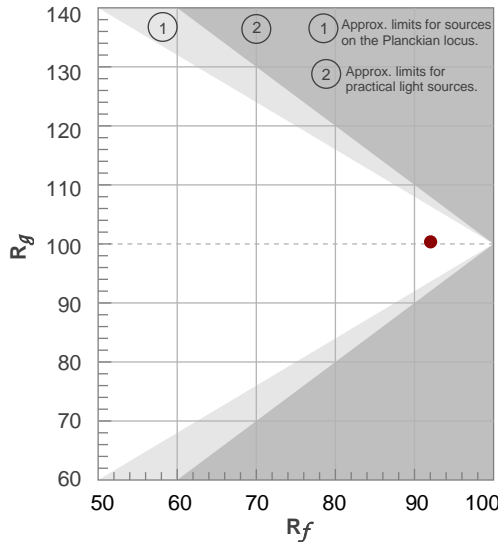
R_g 100.4
Gammut index R_g

TM30: 92.0

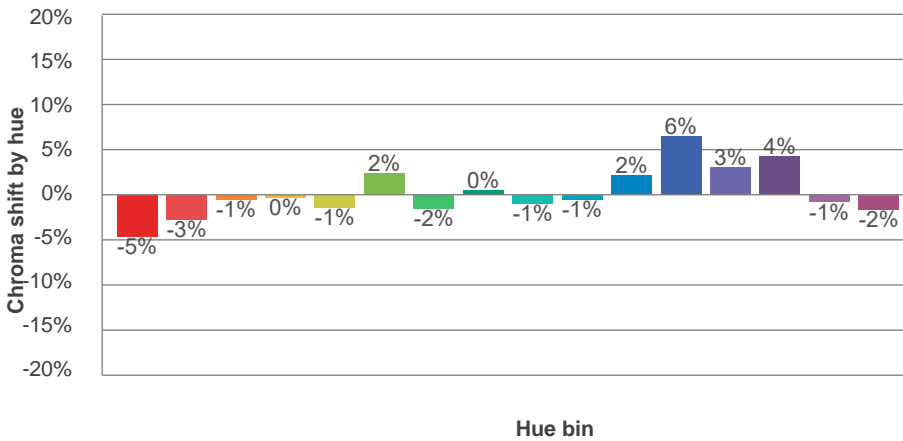
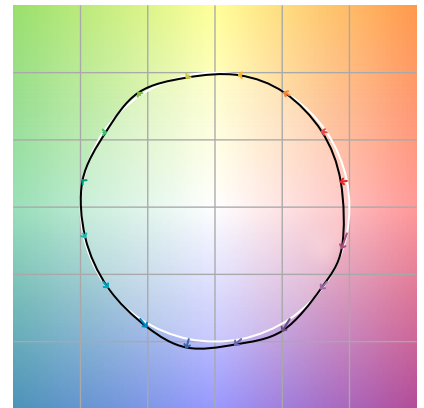
TM-30Color



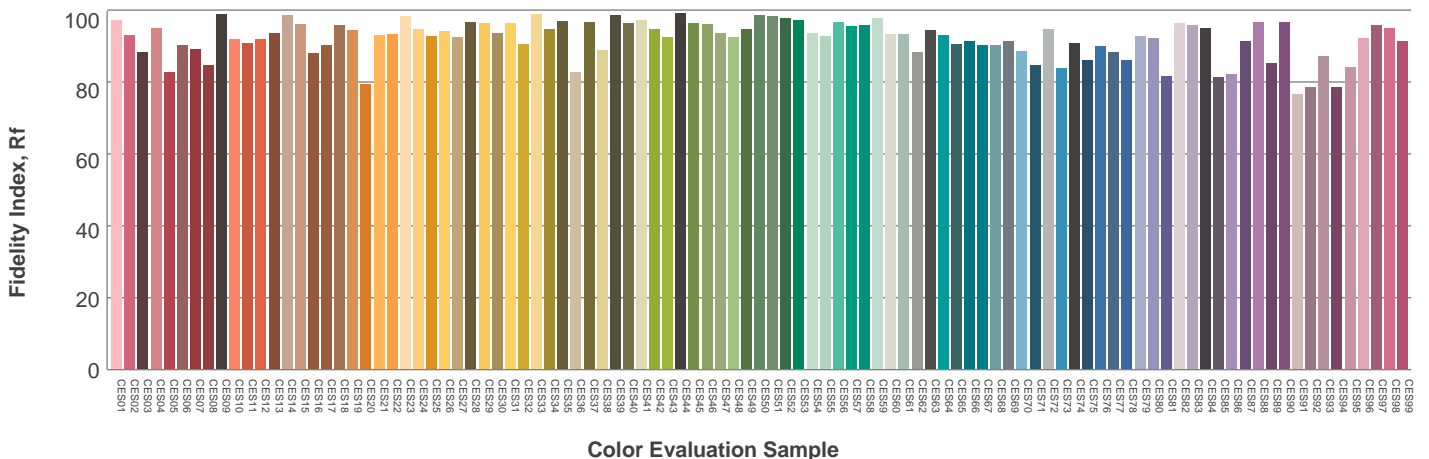
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	3%
3	91	-1%	5%
4	95	0%	2%
5	94	-1%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	7%
12	89	6%	0%
13	91	3%	-5%
14	87	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



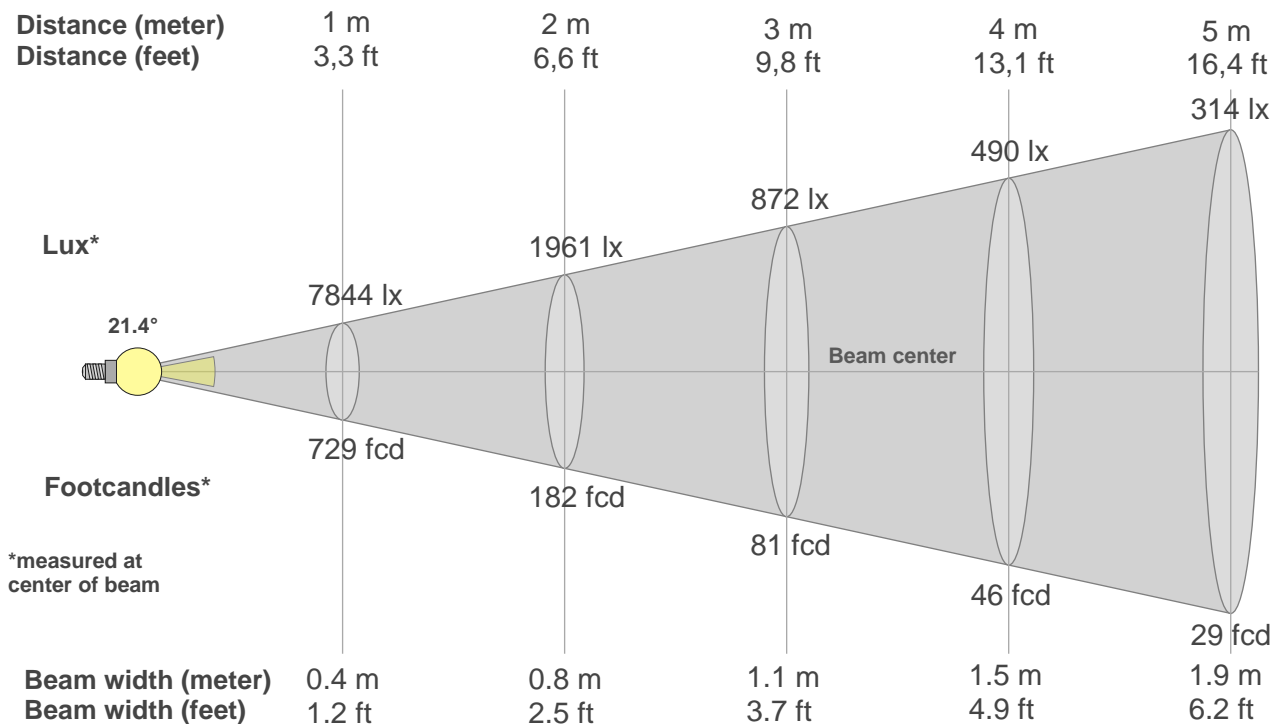
Color vector graphics



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
7844lx	1961lx	872lx	490lx	314lx	218lx	160lx	123lx	97lx	78lx	65lx	54lx	46lx	40lx	35lx	31lx	27lx	24lx	22lx	20lx
728.7fcd	182.2fcd	81fcd	45.5fcd	29.1fcd	20.2fcd	14.9fcd	11.4fcd	9fcd	7.3fcd	6fcd	5.1fcd	4.3fcd	3.7fcd	3.2fcd	2.8fcd	2.5fcd	2.2fcd	2fcd	1.8fcd

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°
7844	7670	7044	6182	5214	4245	3365	2666	2132	1730	1434	1212	1041	880	717	557	408	284	192	124
100%	98%	90%	79%	66%	54%	43%	34%	27%	22%	18%	15%	13%	11%	9%	7%	5%	4%	2%	2%

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°
7844	7623	7052	6223	5241	4270	3412	2702	2148	1731	1446	1225	1040	872	708	552	409	287	193	123
100%	97%	90%	79%	67%	54%	44%	34%	27%	22%	18%	16%	13%	11%	9%	7%	5%	4%	2%	2%

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°
7844	7596	7023	6196	5224	4258	3402	2689	2133	1722	1439	1222	1042	880	723	572	431	306	203	130
100%	97%	90%	79%	67%	54%	43%	34%	27%	22%	18%	16%	13%	11%	9%	7%	5%	4%	3%	2%

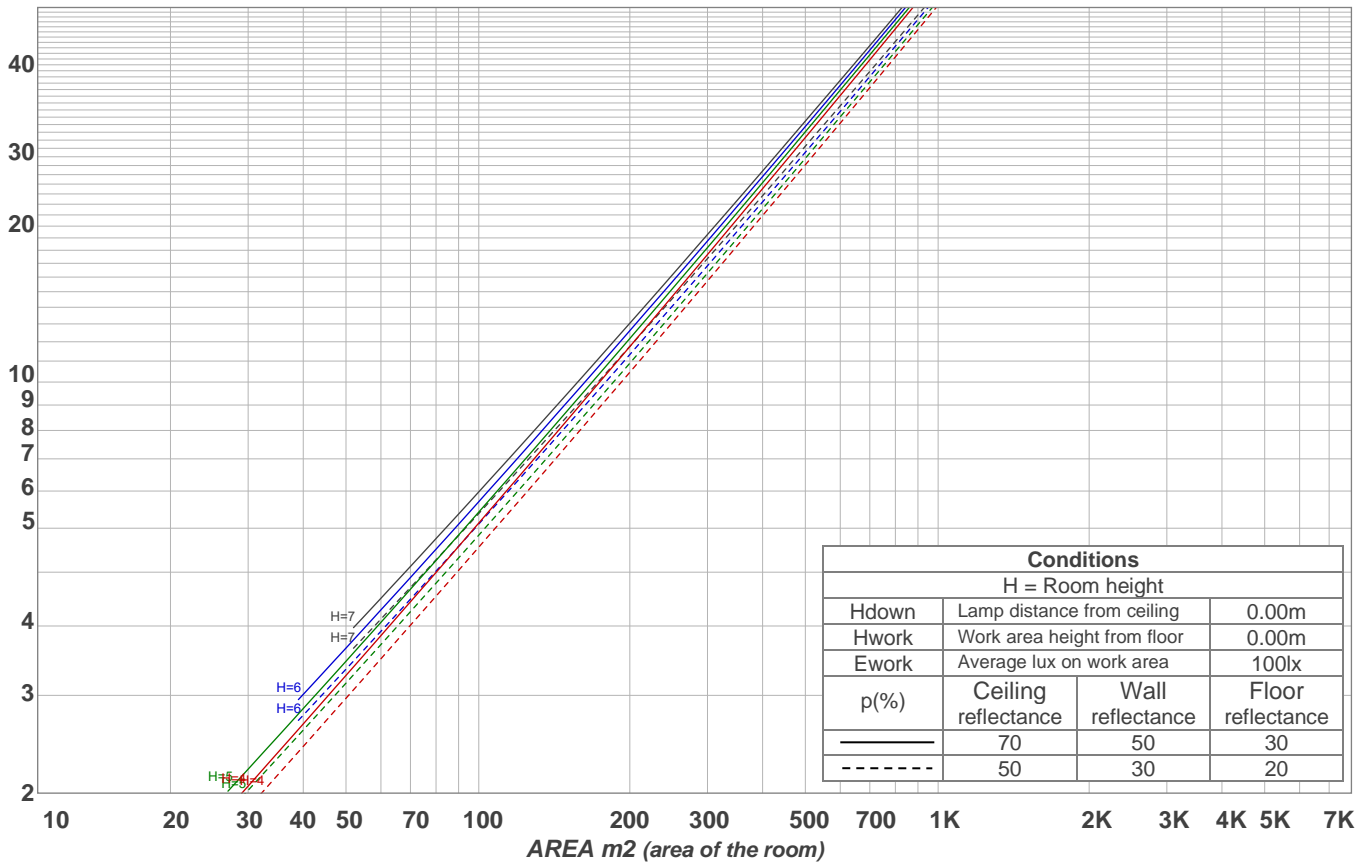
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7844	7683	7058	6194	5225	4255	3375	2675	2139	1736	1440	1218	1043	883	729	579	436	309	212	139
100%	98%	90%	79%	67%	54%	43%	34%	27%	22%	18%	16%	13%	11%	9%	7%	6%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.4°	54.3°	72.1°	99.1%	98.4%

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		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95		
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91		
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87	87		
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84	84		
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	82	80	80		
6	95	88	84	80	94	87	83	80	86	82	79	85	81	79	84	81	78	77	77		
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	75	74	74		
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72		
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69	69		
10	84	76	72	69	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
554 lm	677 lm	437 lm	164 lm	25.0 lm	6.95 lm	5.47 lm	5.67 lm	5.32 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