

Light efficiency:



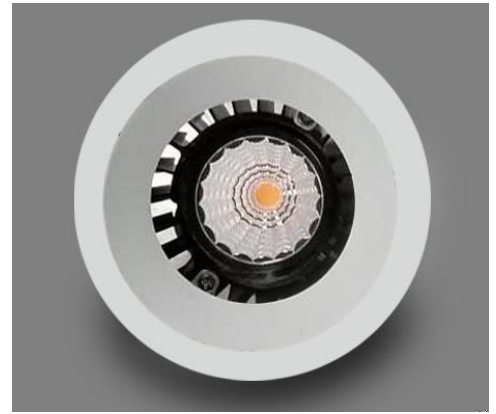
Output: 1860 lm

Light quality:

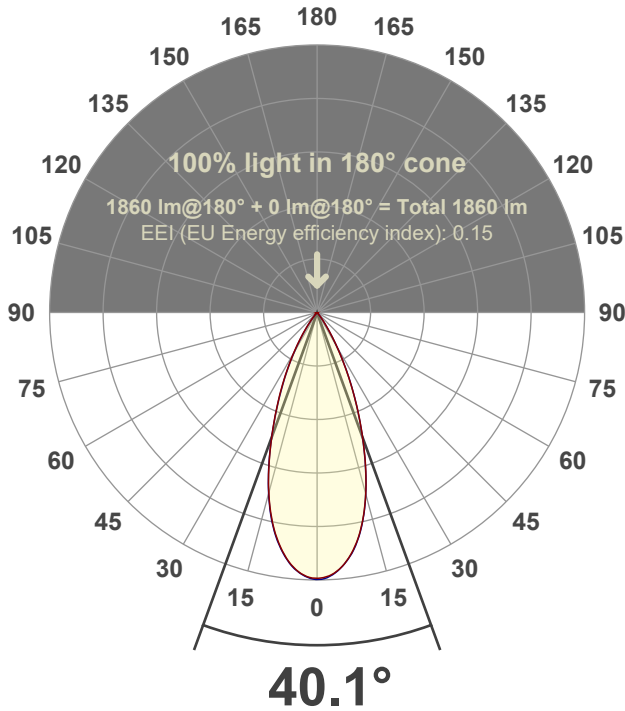


Peak: 3825 cd

Power: 20.8 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Round Fixed Downlight-CZ20 30k 38° Optic-Solite

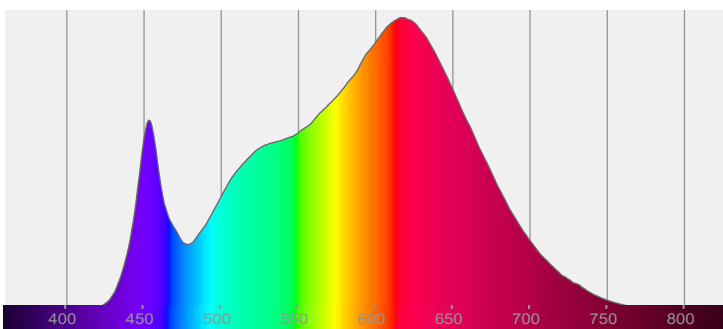
Date and time:

3/2/2022 10:59:33 PM

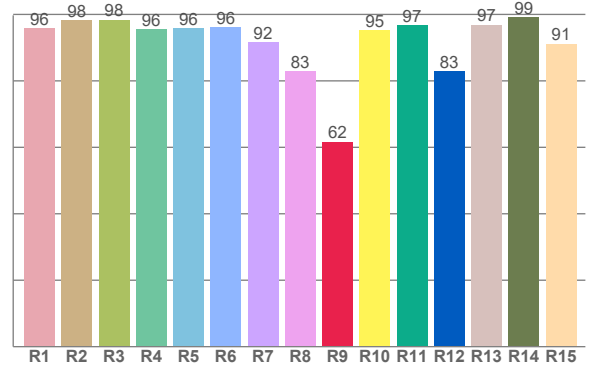
Delivered Lumens

1860

Spectra



CRI: 94.3 (R1-R8)



Color parameters

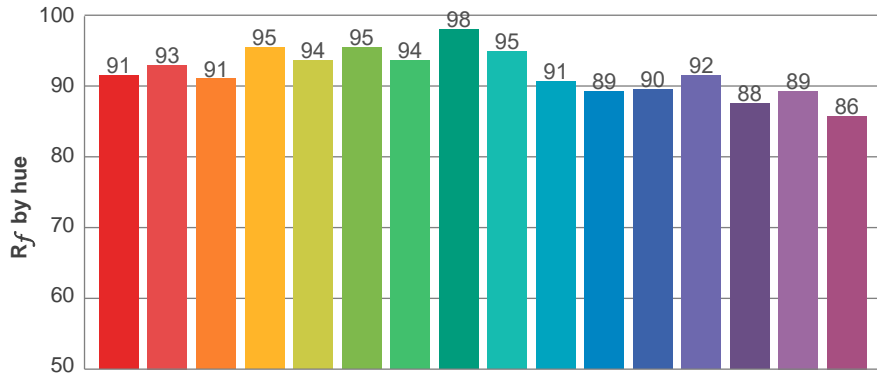
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.3	61.6	92.1	100.4	91.6	0.425	0.394	0.247	0.344	-0.0024

R_f 92.1
Fidelity index R_f

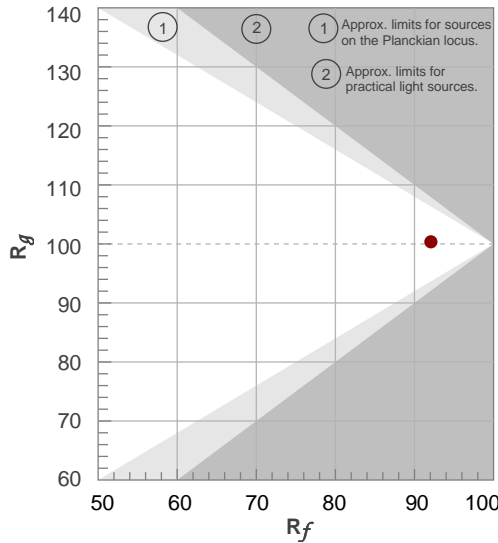
R_g 100.4
Gammut index R_g

TM30: 92.1

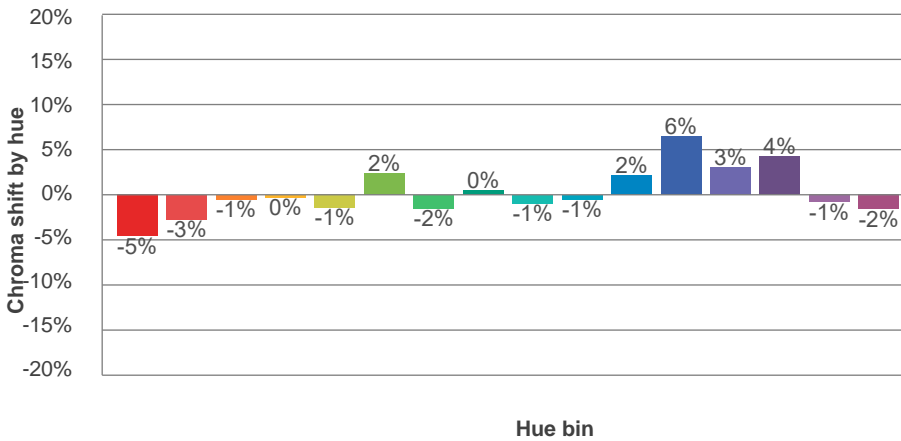
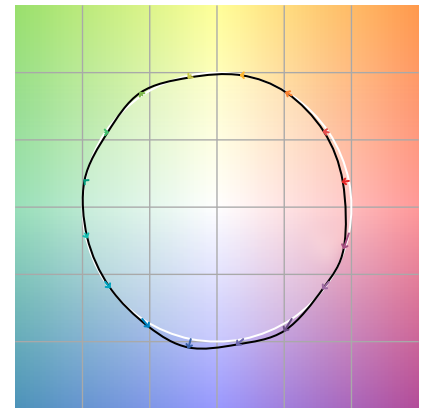
TM-30Color



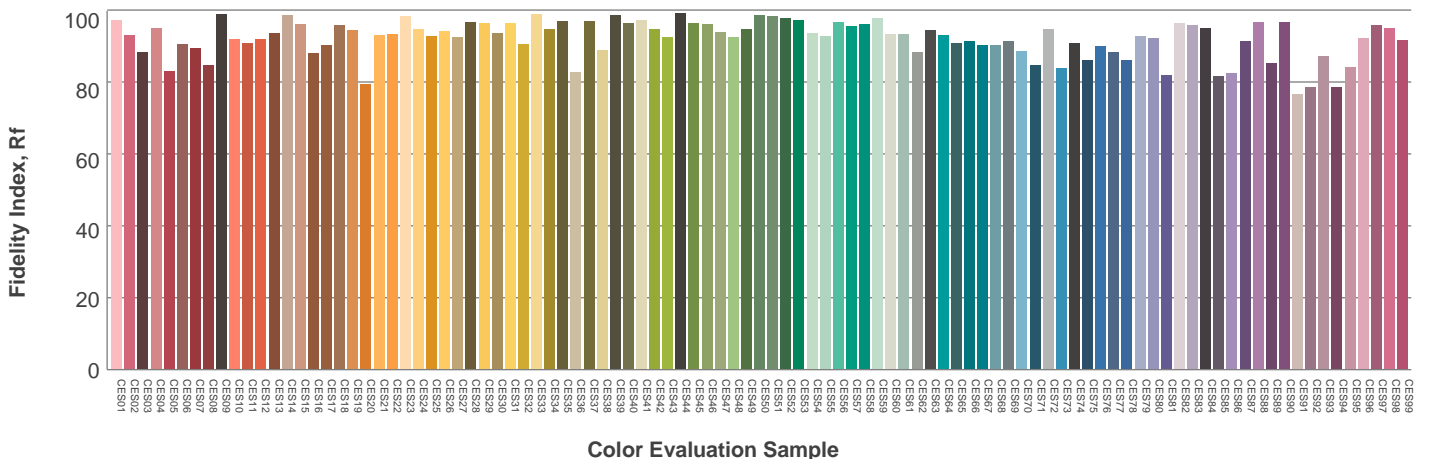
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	3%
3	91	-1%	4%
4	95	0%	2%
5	94	-1%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	7%
12	90	6%	0%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



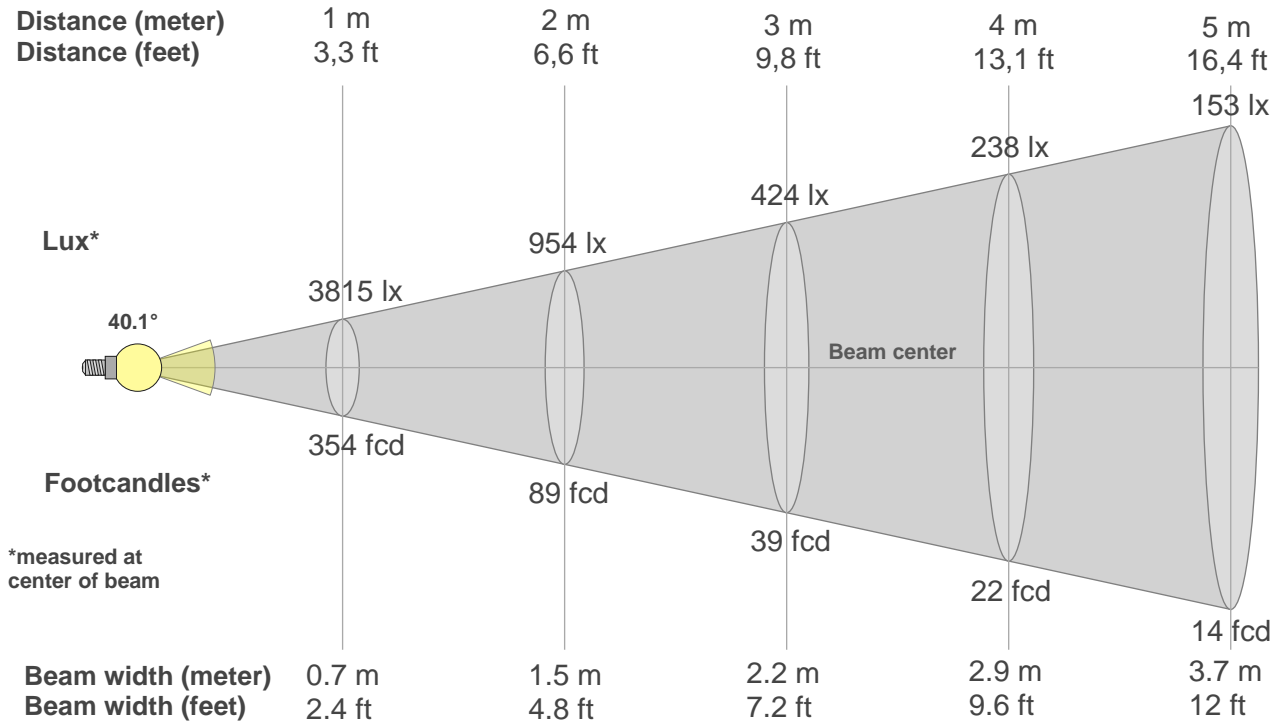
Color vector graphics



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
3815lx	954lx	424lx	238lx	153lx	106lx	78lx	60lx	47lx	38lx	32lx	26lx	23lx	19lx	17lx	15lx	13lx	12lx	11lx	10lx
354.4fcd	88.6fcd	39.4fcd	22.2fcd	14.2fcd	9.8fcd	7.2fcd	5.5fcd	4.4fcd	3.5fcd	2.9fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

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°
3815	3787	3731	3636	3500	3318	3095	2837	2550	2242	1921	1618	1327	1057	814	603	430	296	199	133
100%	99%	98%	95%	92%	87%	81%	74%	67%	59%	50%	42%	35%	28%	21%	16%	11%	8%	5%	3%

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°
3815	3806	3744	3638	3501	3323	3102	2843	2549	2231	1914	1610	1323	1056	810	596	415	273	170	104
100%	100%	98%	95%	92%	87%	81%	75%	67%	58%	50%	42%	35%	28%	21%	16%	11%	7%	4%	3%

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°
3815	3791	3732	3624	3476	3293	3076	2822	2536	2226	1920	1630	1363	1120	896	700	529	382	263	172
100%	99%	98%	95%	91%	86%	81%	74%	66%	58%	50%	43%	36%	29%	23%	18%	14%	10%	7%	5%

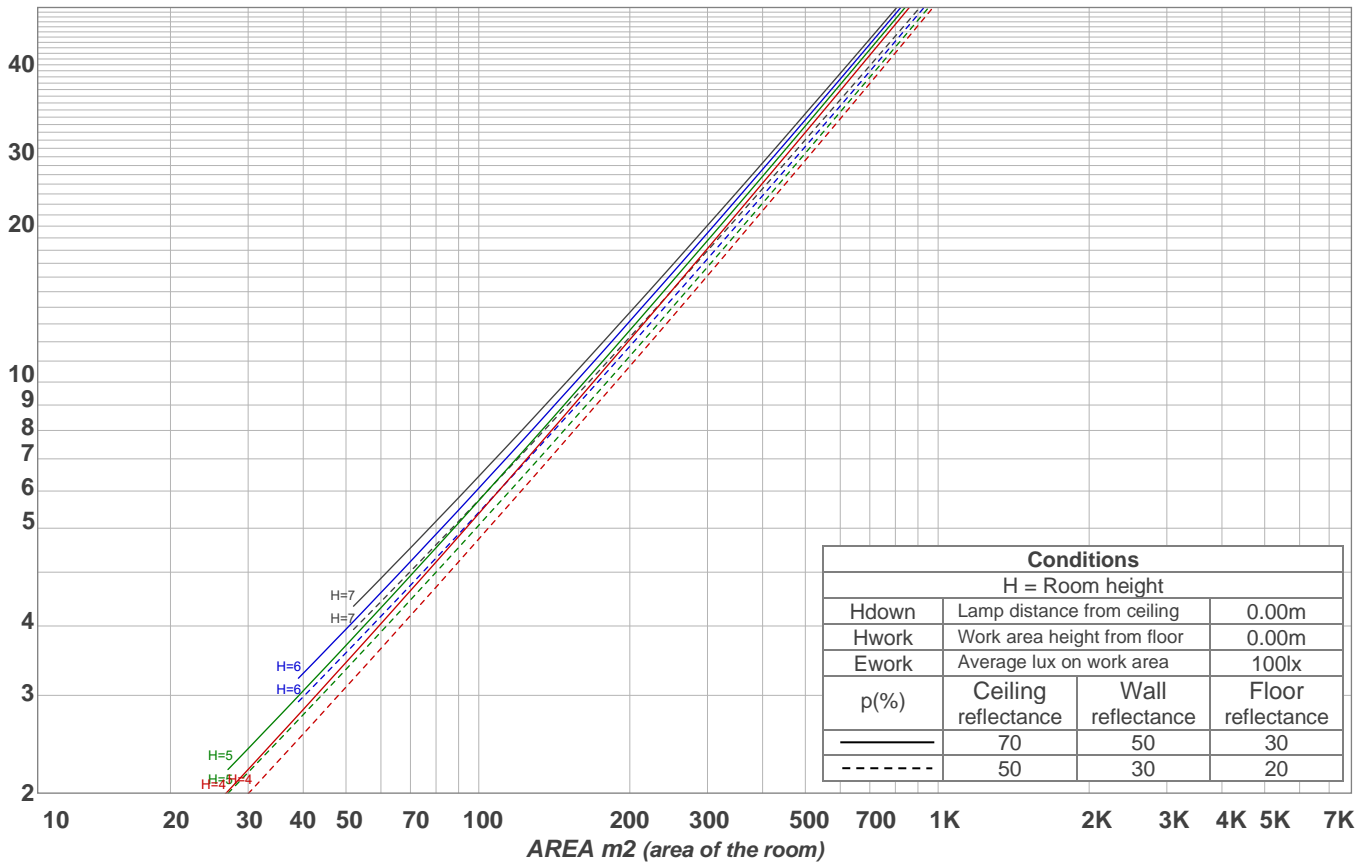
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3815	3797	3733	3634	3490	3308	3088	2831	2542	2232	1914	1617	1344	1098	876	672	496	351	236	152
100%	100%	98%	95%	91%	87%	81%	74%	67%	59%	50%	42%	35%	29%	23%	18%	13%	9%	6%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.1°	66.3°	79.5°	99.1%	98.2%

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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	95	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	77
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73	73	73	73
7	89	81	76	72	88	81	76	72	79	75	72	78	74	72	77	74	71	70	70	70	70
8	86	78	73	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67	67	67	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64	64	64	64
10	80	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	62	61	61	61	61

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
341 lm	734 lm	550 lm	181 lm	29.7 lm	8.73 lm	6.48 lm	4.99 lm	4.54 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