

Light efficiency:



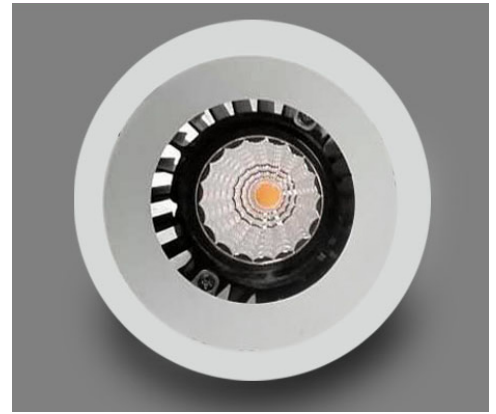
Output: 1476 lm

Light quality:

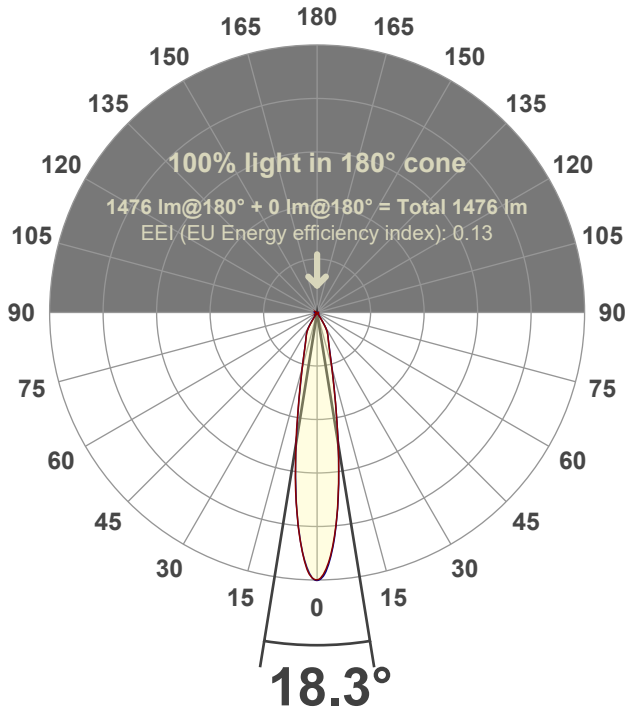


Peak: 7983 cd

Power: 14.1 W



Beam angle



Test number:

GR-O-F-CZ14-30k-SP-RD-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-CZ14 30k 15° Optic

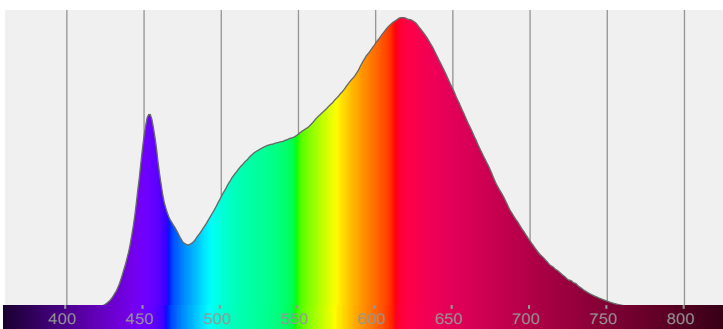
Date and time:

3/2/2022 11:17:29 PM

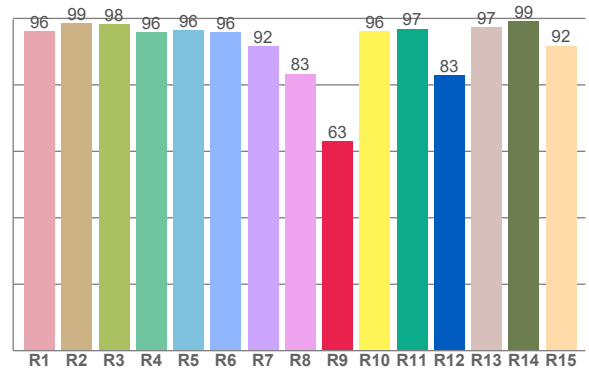
Delivered Lumens

1476

Spectra



CRI: 94.5 (R1-R8)



Color parameters

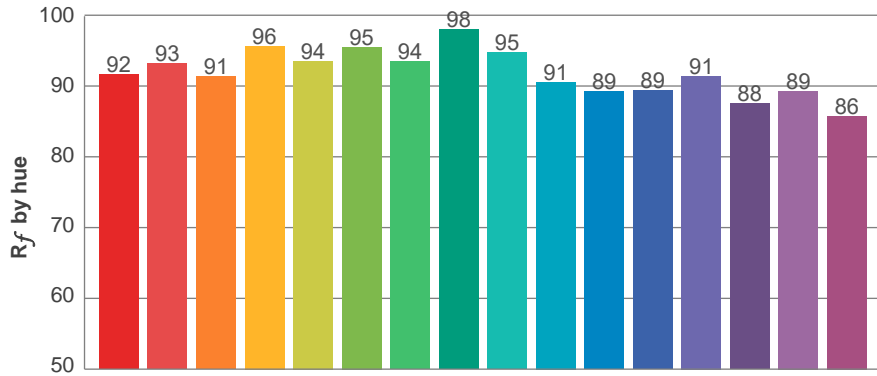
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.1	92.1	100.4	91.8	0.425	0.393	0.247	0.343	-0.0026

R_f 92.1
Fidelity index R_f

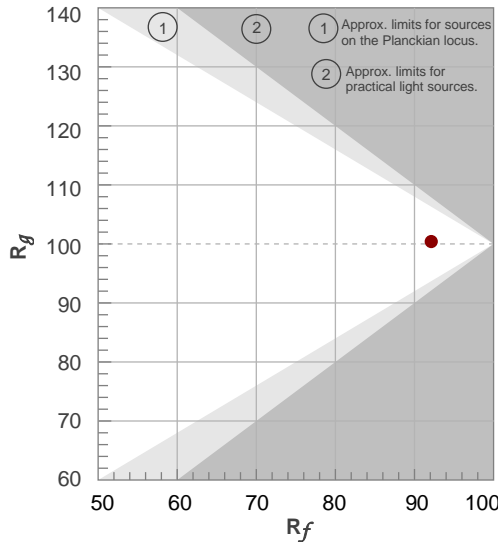
R_g 100.4
Gammut index R_g

TM30: 92.1

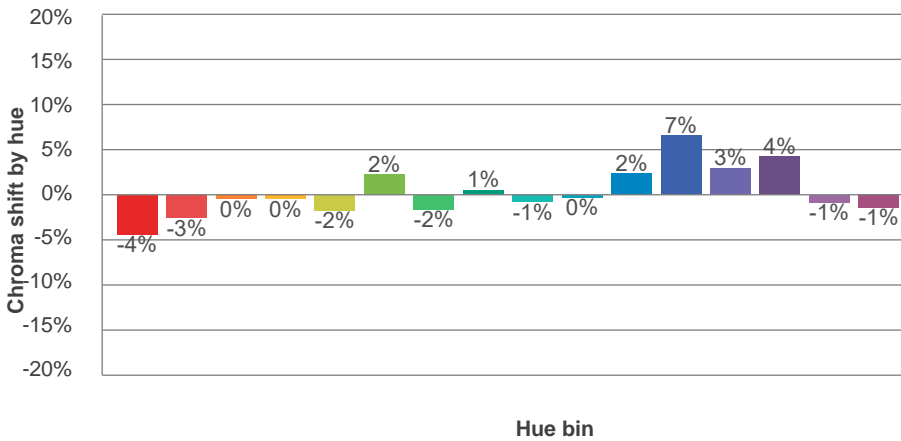
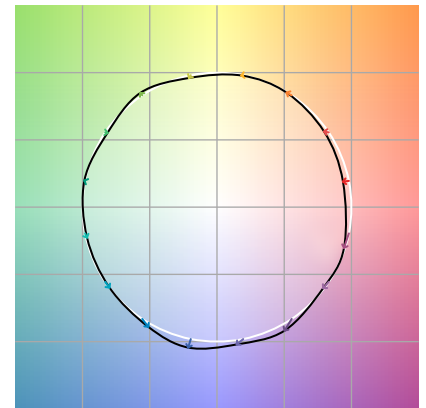
TM-30Color



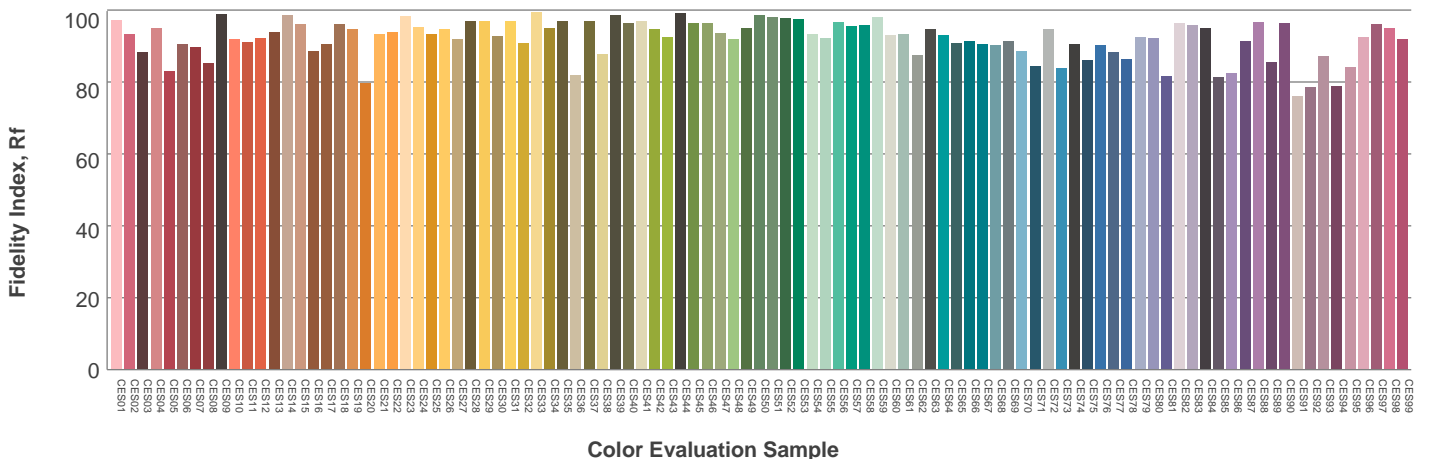
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	3%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-6%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



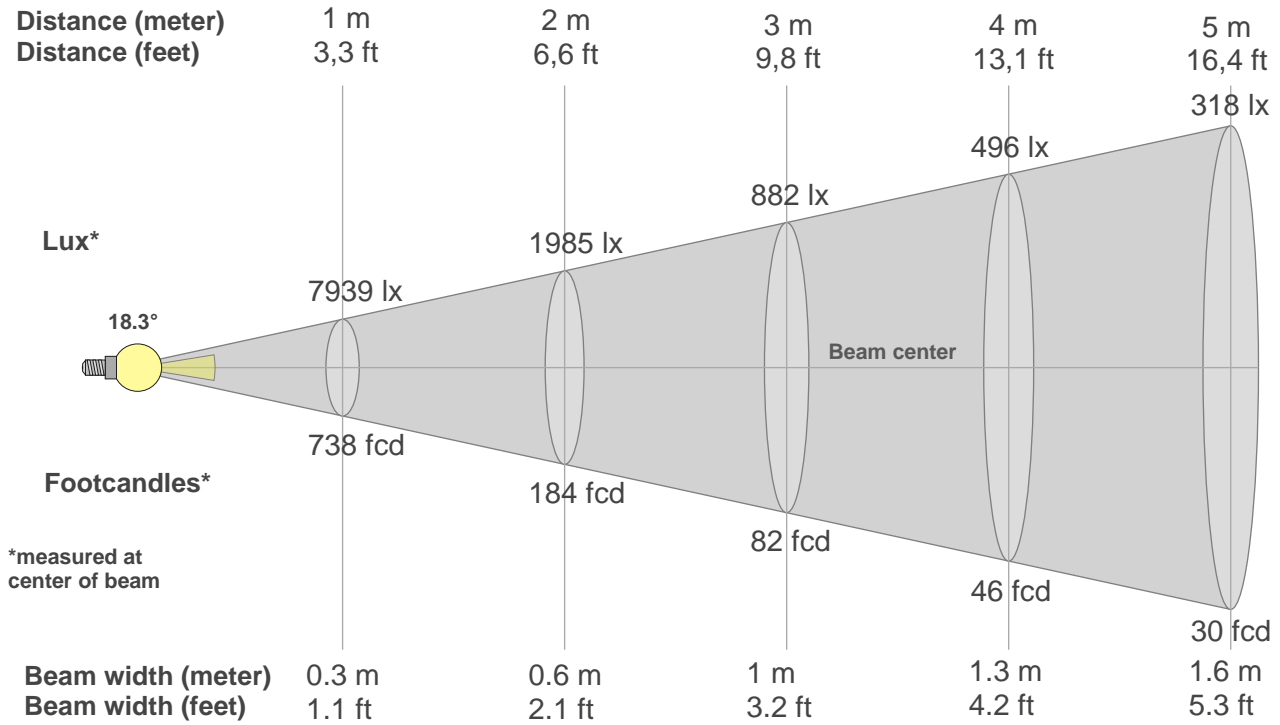
Color vector graphics



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
7939lx	1985lx	882lx	496lx	318lx	221lx	162lx	124lx	98lx	79lx	66lx	55lx	47lx	41lx	35lx	31lx	27lx	25lx	22lx	20lx
737.5fcd	184.4fcd	81.9fcd	46.1fcd	29.5fcd	20.5fcd	15.1fcd	11.5fcd	9.1fcd	7.4fcd	6.1fcd	5.1fcd	4.4fcd	3.8fcd	3.3fcd	2.9fcd	2.6fcd	2.3fcd	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°
7939	7609	6878	5859	4672	3510	2623	1979	1535	1235	1042	909	810	725	635	516	339	151	41	6
100%	96%	87%	74%	59%	44%	33%	25%	19%	16%	13%	11%	10%	9%	8%	7%	4%	2%	1%	0%

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°
7939	7708	6962	5870	4674	3543	2610	1954	1544	1262	1062	919	814	730	629	487	305	120	13	7
100%	97%	88%	74%	59%	45%	33%	25%	19%	16%	13%	12%	10%	9%	8%	6%	4%	2%	0%	0%

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°
7939	7770	6931	5873	4702	3566	2626	2001	1573	1274	1066	918	814	734	642	507	325	121	26	7
100%	98%	87%	74%	59%	45%	33%	25%	20%	16%	13%	12%	10%	9%	8%	6%	4%	2%	0%	0%

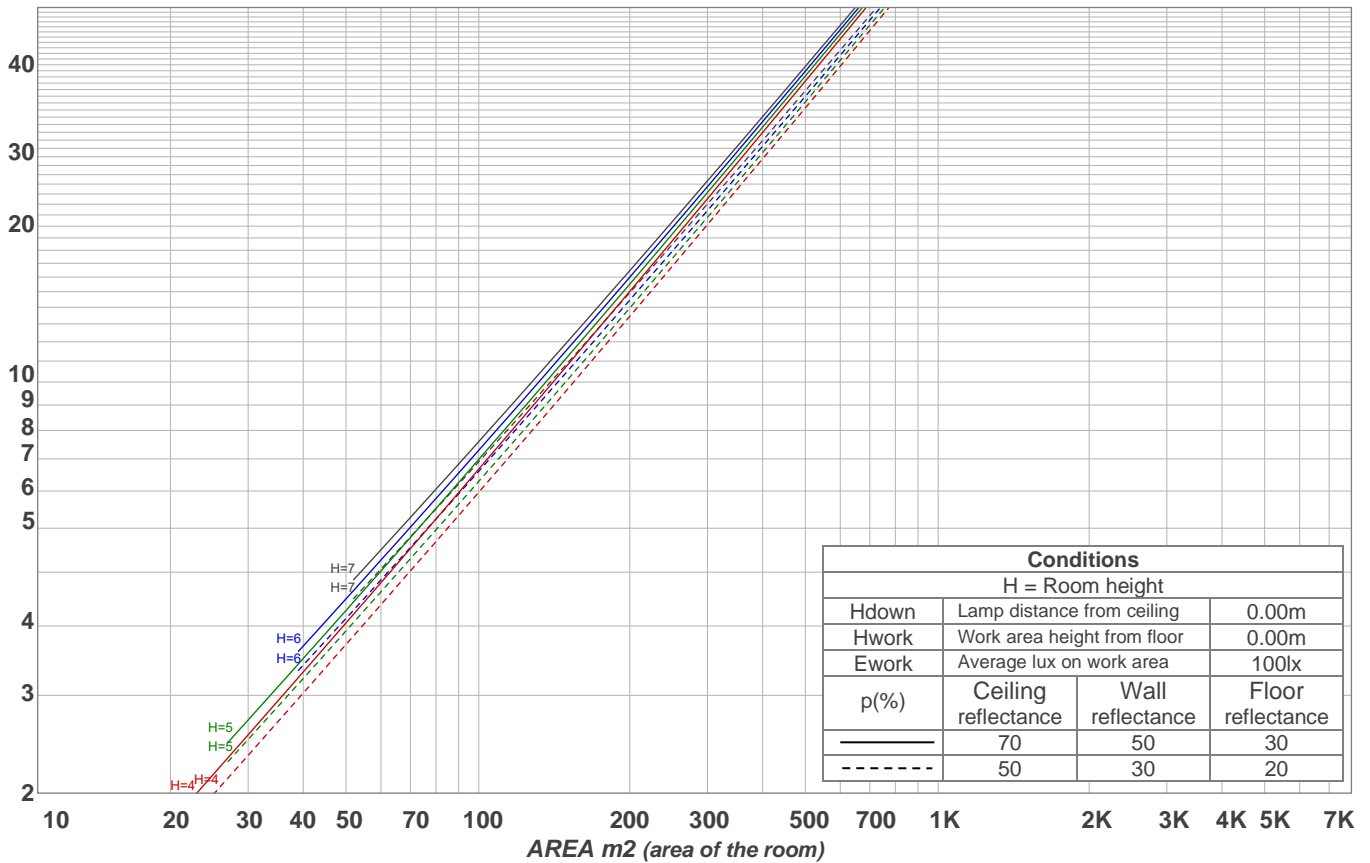
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7939	7640	6906	5860	4637	3497	2614	1981	1549	1247	1061	924	820	733	643	525	356	175	49	6
100%	96%	87%	74%	58%	44%	33%	25%	20%	16%	13%	12%	10%	9%	8%	7%	4%	2%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.3°	48.8°	66.7°	99.3%	99.1%

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	0		
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
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		
1	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89		
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86		
5	100	94	90	86	99	93	89	86	91	88	85	90	87	85	88	86	84	83		
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80		
7	94	87	83	80	93	87	83	80	86	82	79	84	81	79	83	81	78	77		
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75		
9	89	82	77	74	88	81	77	74	80	77	74	80	76	74	79	76	74	73		
10	86	79	75	72	85	79	75	72	78	74	72	77	74	72	77	74	72	71		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
515 lm	507 lm	352 lm	86.6 lm	2.55 lm	2.35 lm	2.74 lm	3.33 lm	4.03 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