

Light efficiency:



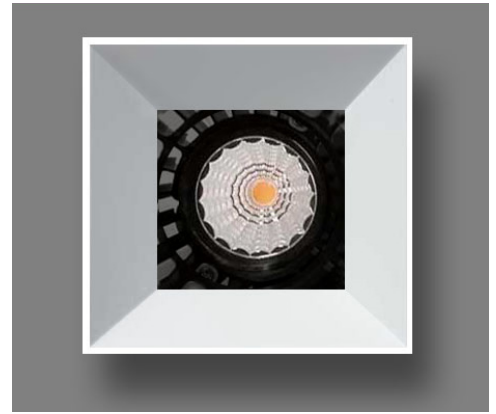
Output: 1800 lm

Light quality:

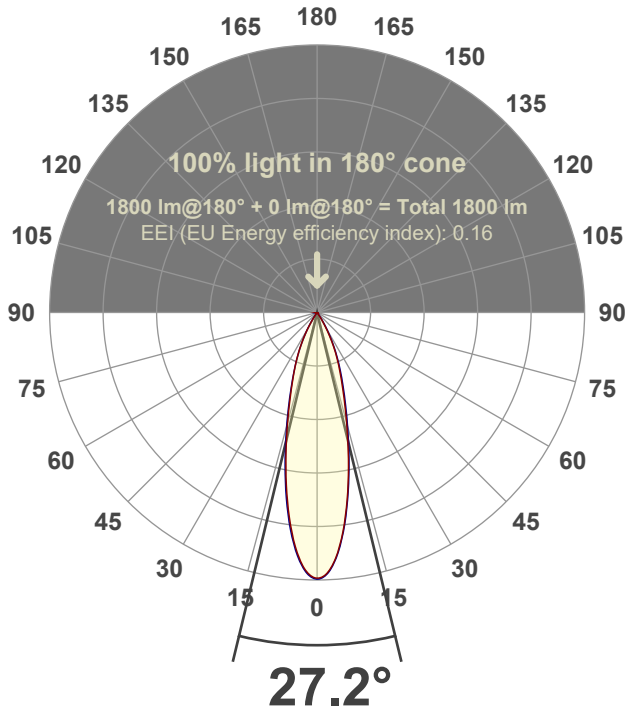


Peak: 5994 cd

Power: 20.7 W



Beam angle



Test number:

GR-O-F-CZ20-30k-NF-SQ-91A-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-CZ20 30k 24° Optic-Solite

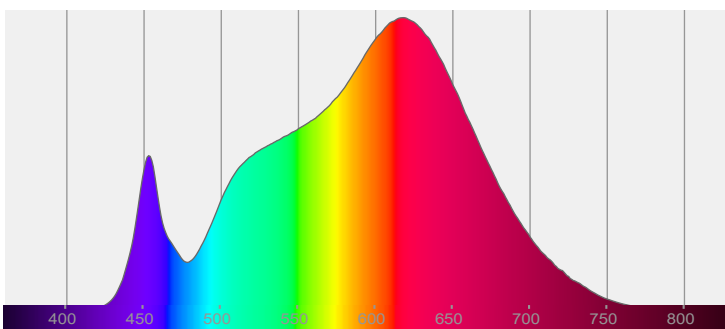
Date and time:

6/30/2022 8:58:13 PM

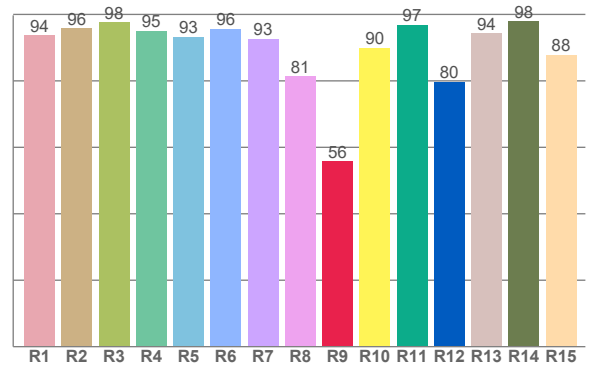
Delivered Lumens

1800

Spectra



CRI: 93.2 (R1-R8)



Color parameters

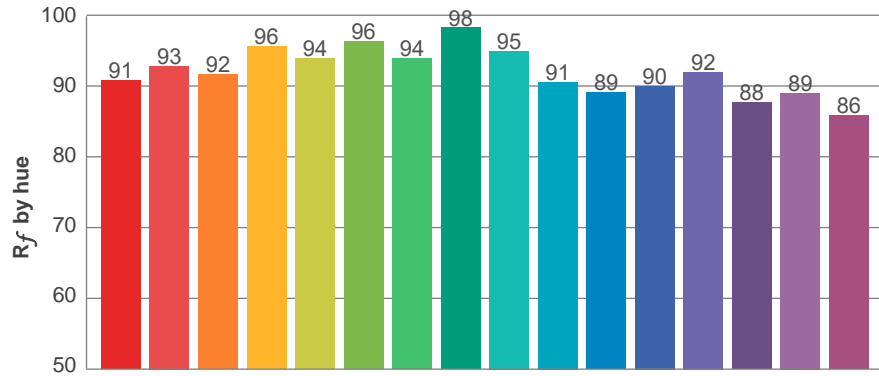
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.2	55.8	92.2	99.1	91.6	0.437	0.408	0.249	0.349	0.0016

R_f 92.2
Fidelity index R_f

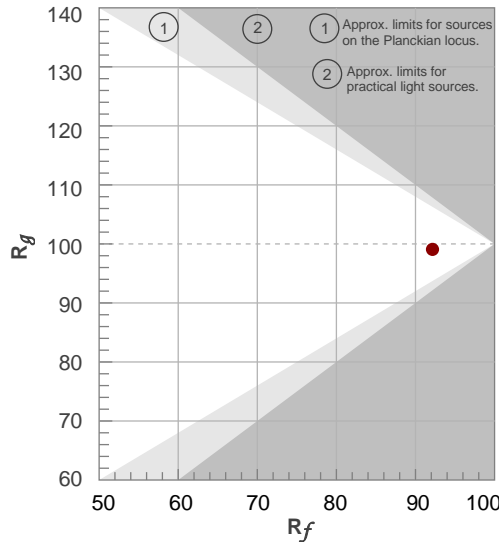
R_g 99.1
Gammut index R_g

TM30: 92.2

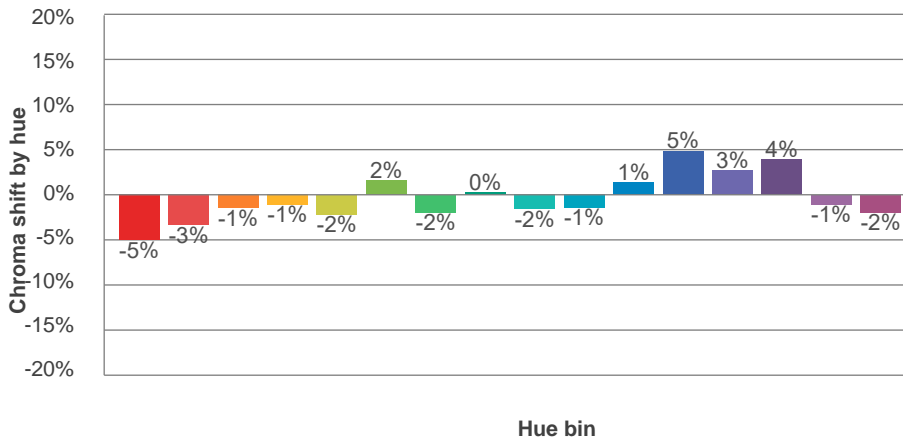
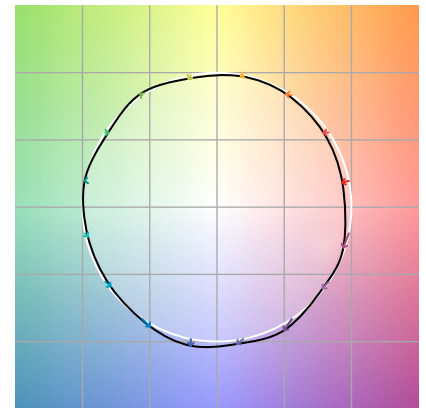
TM-30Color



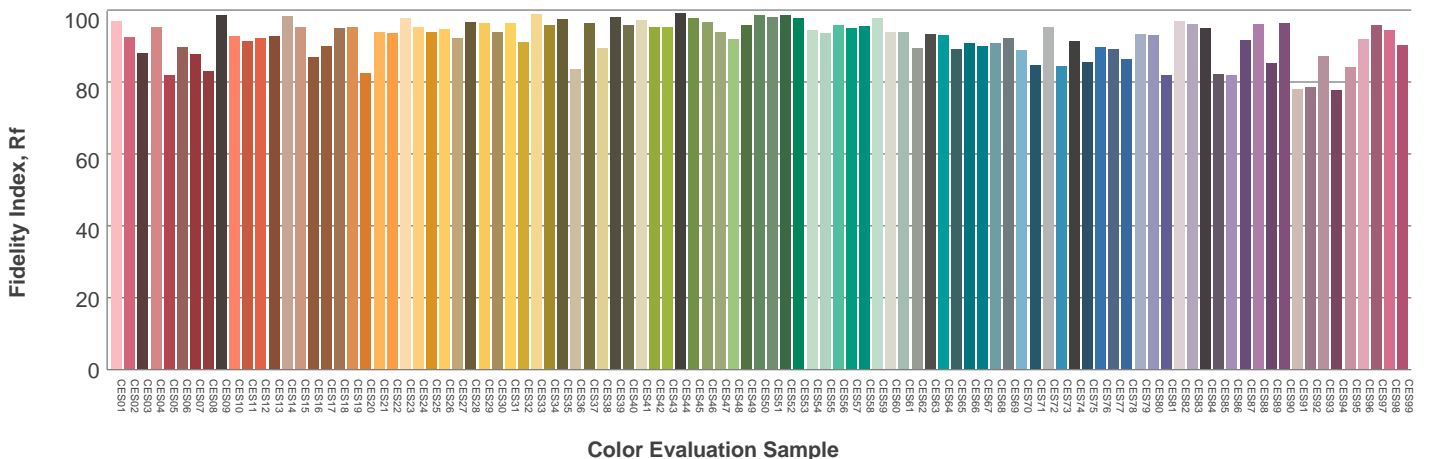
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



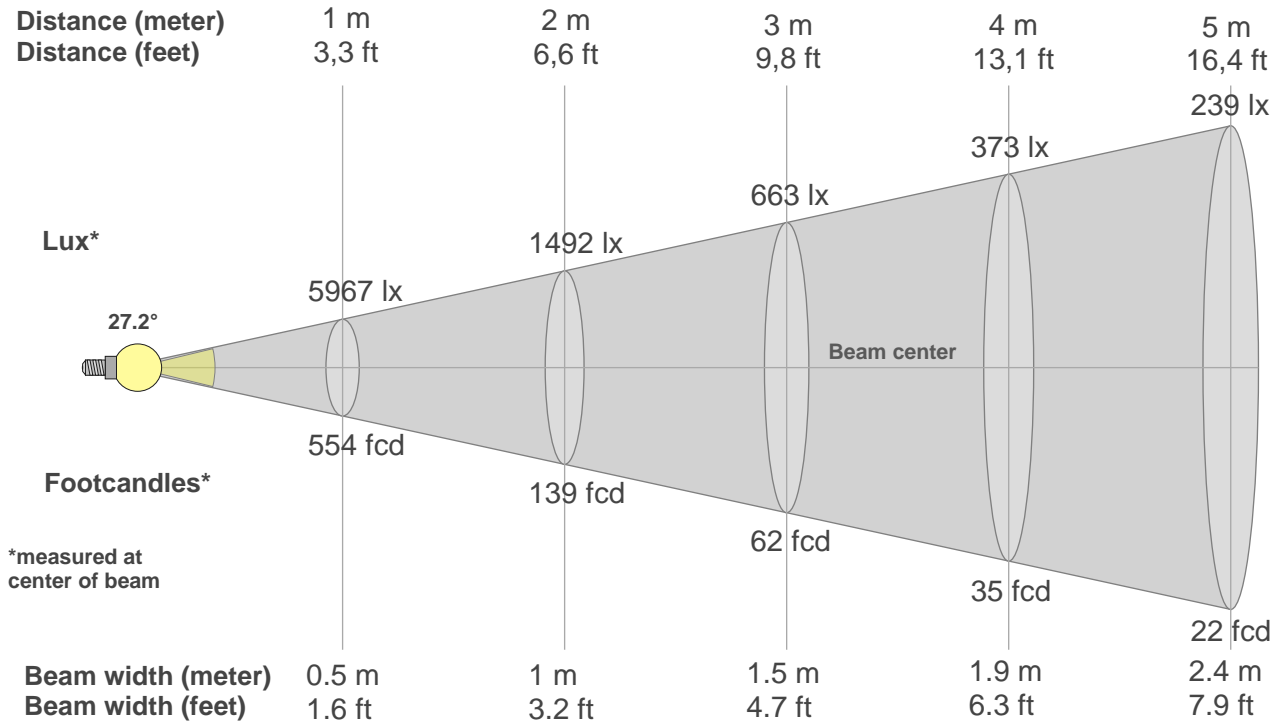
Color vector graphics



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
5967lx	1492lx	663lx	373lx	239lx	166lx	122lx	93lx	74lx	60lx	49lx	41lx	35lx	30lx	27lx	23lx	21lx	18lx	17lx	15lx
554.3fcd	138.6fcd	61.6fcd	34.6fcd	22.2fcd	15.4fcd	11.3fcd	8.7fcd	6.8fcd	5.5fcd	4.6fcd	3.8fcd	3.3fcd	2.8fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

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°
5967	5879	5588	5140	4596	4004	3406	2831	2347	1941	1606	1327	1085	857	634	445	294	184	110	65
100%	99%	94%	86%	77%	67%	57%	47%	39%	33%	27%	22%	18%	14%	11%	7%	5%	3%	2%	1%

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°
5967	5877	5595	5168	4637	4048	3464	2918	2436	2026	1682	1391	1137	902	689	500	340	219	143	92
100%	98%	94%	87%	78%	68%	58%	49%	41%	34%	28%	23%	19%	15%	12%	8%	6%	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°
5967	5834	5543	5108	4570	3981	3388	2842	2357	1944	1610	1348	1112	886	673	481	316	193	117	71
100%	98%	93%	86%	77%	67%	57%	48%	40%	33%	27%	23%	19%	15%	11%	8%	5%	3%	2%	1%

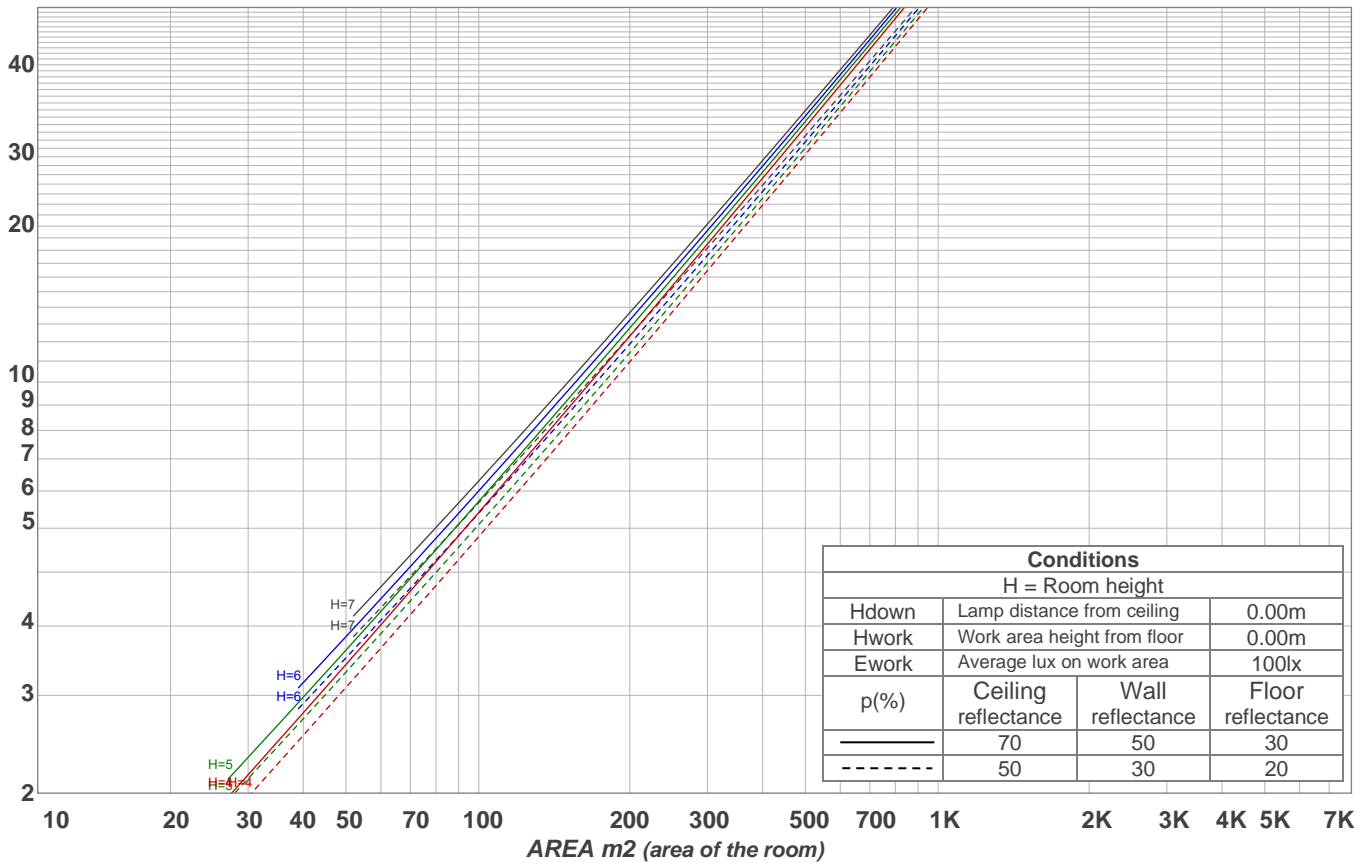
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5967	5883	5586	5158	4637	4062	3472	2915	2425	2003	1647	1350	1093	862	649	466	316	202	130	86
100%	99%	94%	86%	78%	68%	58%	49%	41%	34%	28%	23%	18%	14%	11%	8%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.2°	57.2°	70.6°	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	100	
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87	87	87	
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84	84	84	
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80	80	80	
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	84	81	78	77	77	77	
7	92	85	80	77	91	84	80	76	83	79	76	82	78	76	81	78	75	74	74	74	
8	89	81	77	74	88	81	76	73	80	76	73	79	75	73	78	75	73	71	71	71	
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69	69	69	
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	67	67	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
469 lm	727 lm	450 lm	115 lm	17.4 lm	7.26 lm	5.49 lm	5.34 lm	4.48 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