

Light efficiency:



Output: 1378 lm

Light quality:

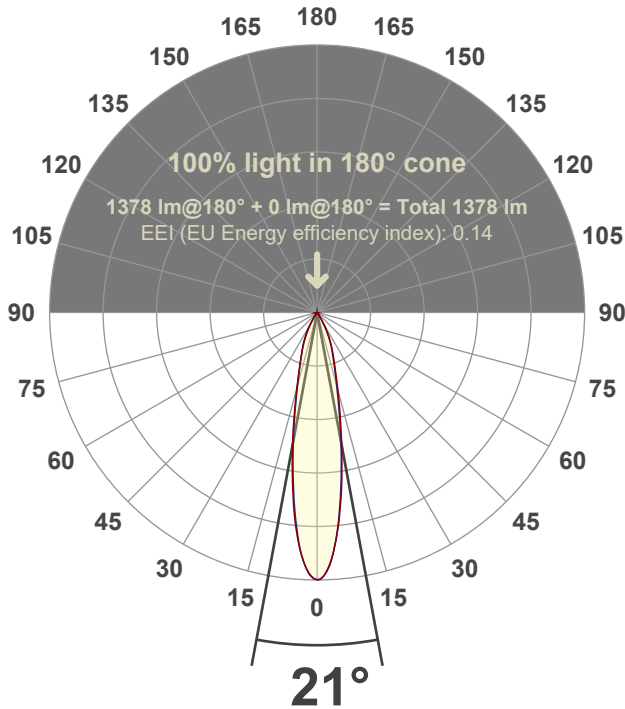


Peak: 6221 cd

Power: 14.2 W



Beam angle



Test number:

GR-O-F-CZ14-30k-SP-SQ-91A-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-CZ14 30k 15° Optic-Solite

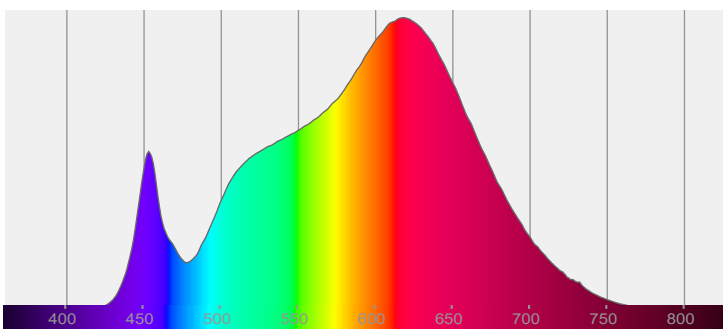
Date and time:

6/30/2022 9:31:09 PM

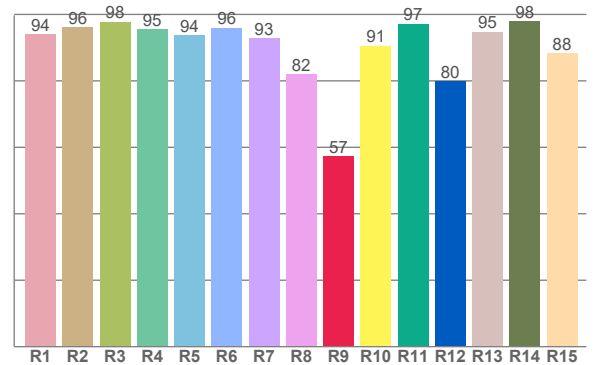
Delivered Lumens

1378

Spectra



CRI: 93.5 (R1-R8)



Color parameters

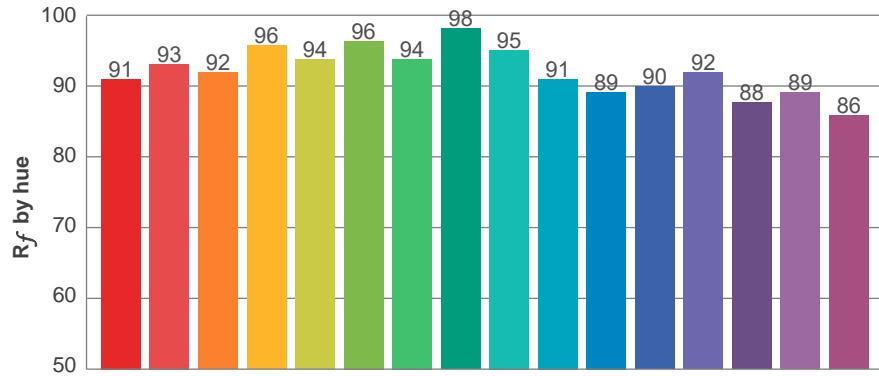
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.5	57.3	92.2	99.2	91.8	0.438	0.408	0.250	0.349	0.0014

R_f 92.2
Fidelity index R_f

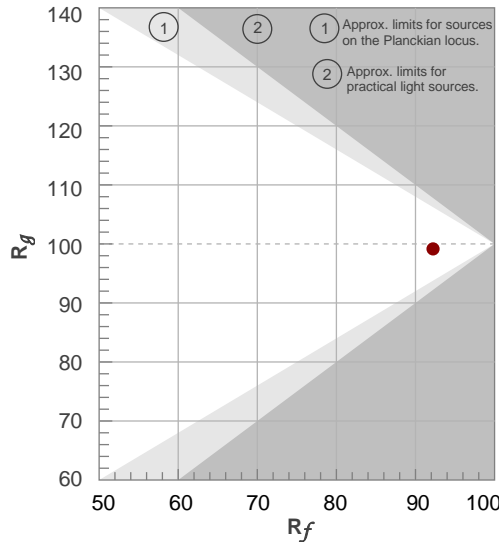
R_g 99.2
Gammut index R_g

TM30: 92.2

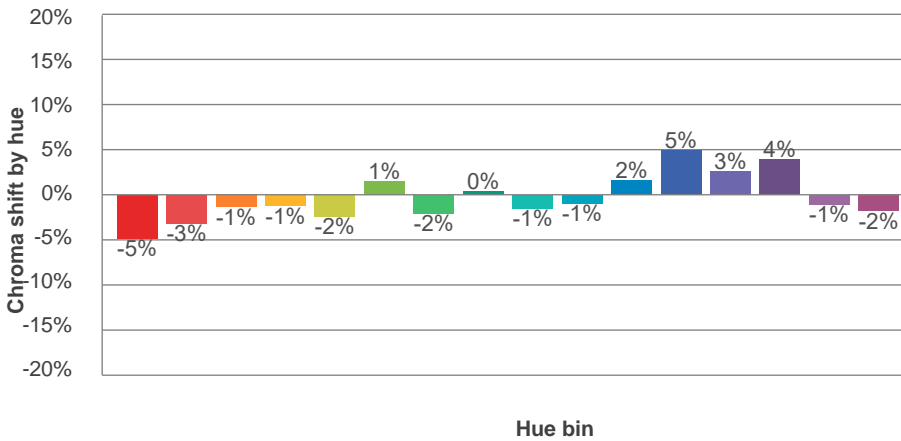
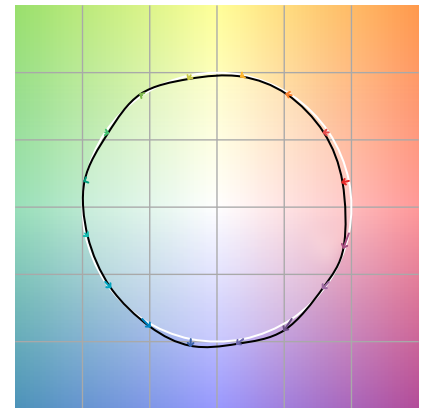
TM-30Color



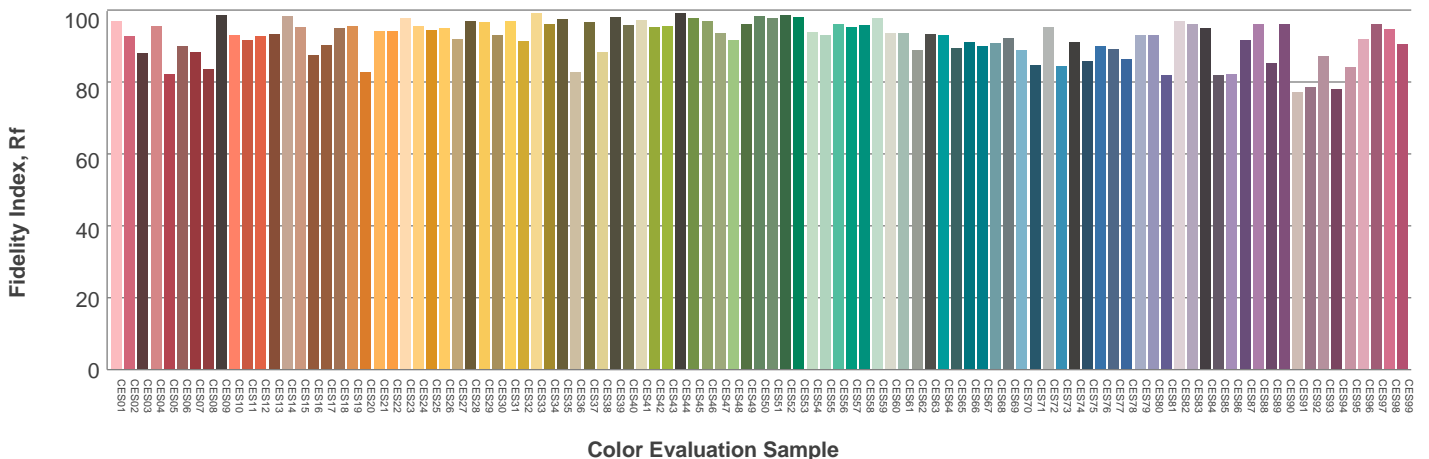
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	1%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	2%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



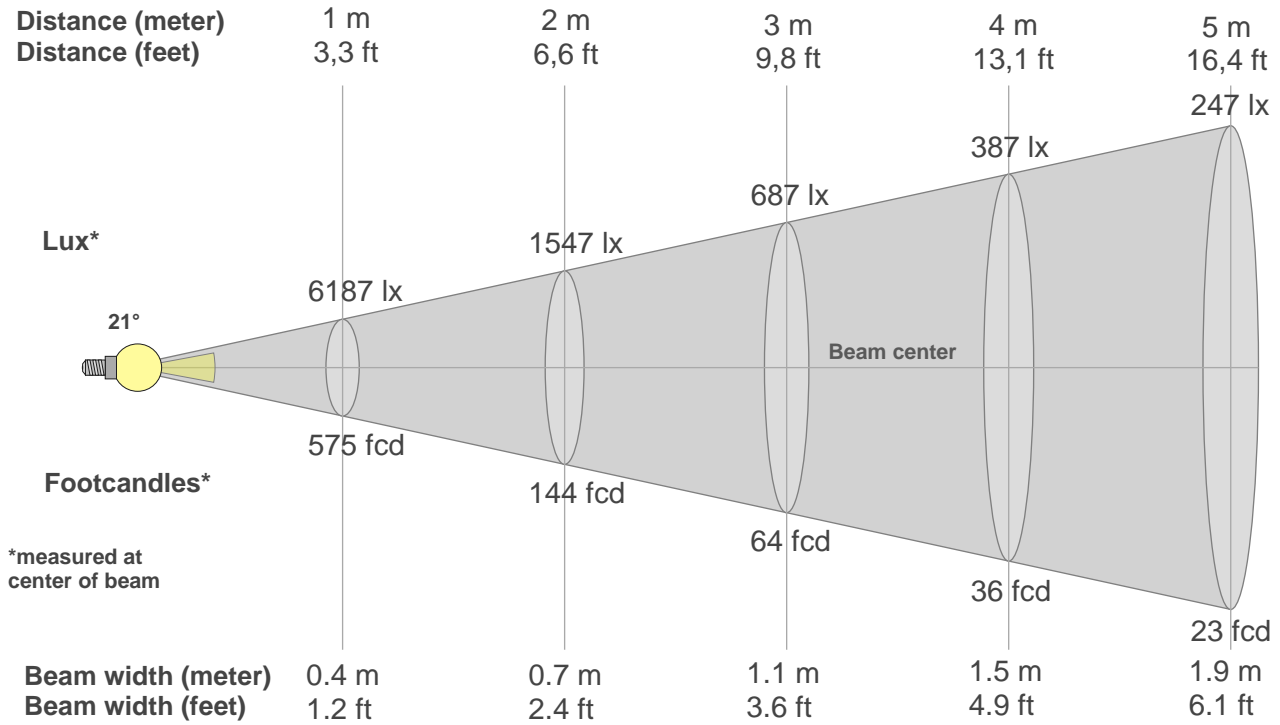
Color vector graphics



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
6187lx	1547lx	687lx	387lx	247lx	172lx	126lx	97lx	76lx	62lx	51lx	43lx	37lx	32lx	27lx	24lx	21lx	19lx	17lx	15lx
574.8fcd	143.7fcd	63.9fcd	35.9fcd	23fcd	16fcd	11.7fcd	9fcd	7.1fcd	5.7fcd	4.8fcd	4fcd	3.4fcd	2.9fcd	2.6fcd	2.2fcd	2fcd	1.8fcd	1.6fcd	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°
6187	6010	5545	4881	4115	3331	2674	2132	1702	1377	1142	955	792	639	491	354	238	155	101	65
100%	97%	90%	79%	67%	54%	43%	34%	28%	22%	18%	15%	13%	10%	8%	6%	4%	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°
6187	6017	5537	4830	4024	3244	2559	2015	1608	1310	1086	912	756	593	435	298	190	115	65	39
100%	97%	89%	78%	65%	52%	41%	33%	26%	21%	18%	15%	12%	10%	7%	5%	3%	2%	1%	1%

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°
6187	6024	5585	4902	4112	3347	2663	2087	1639	1325	1097	912	750	598	453	322	220	147	96	62
100%	97%	90%	79%	66%	54%	43%	34%	26%	21%	18%	15%	12%	10%	7%	5%	4%	2%	2%	1%

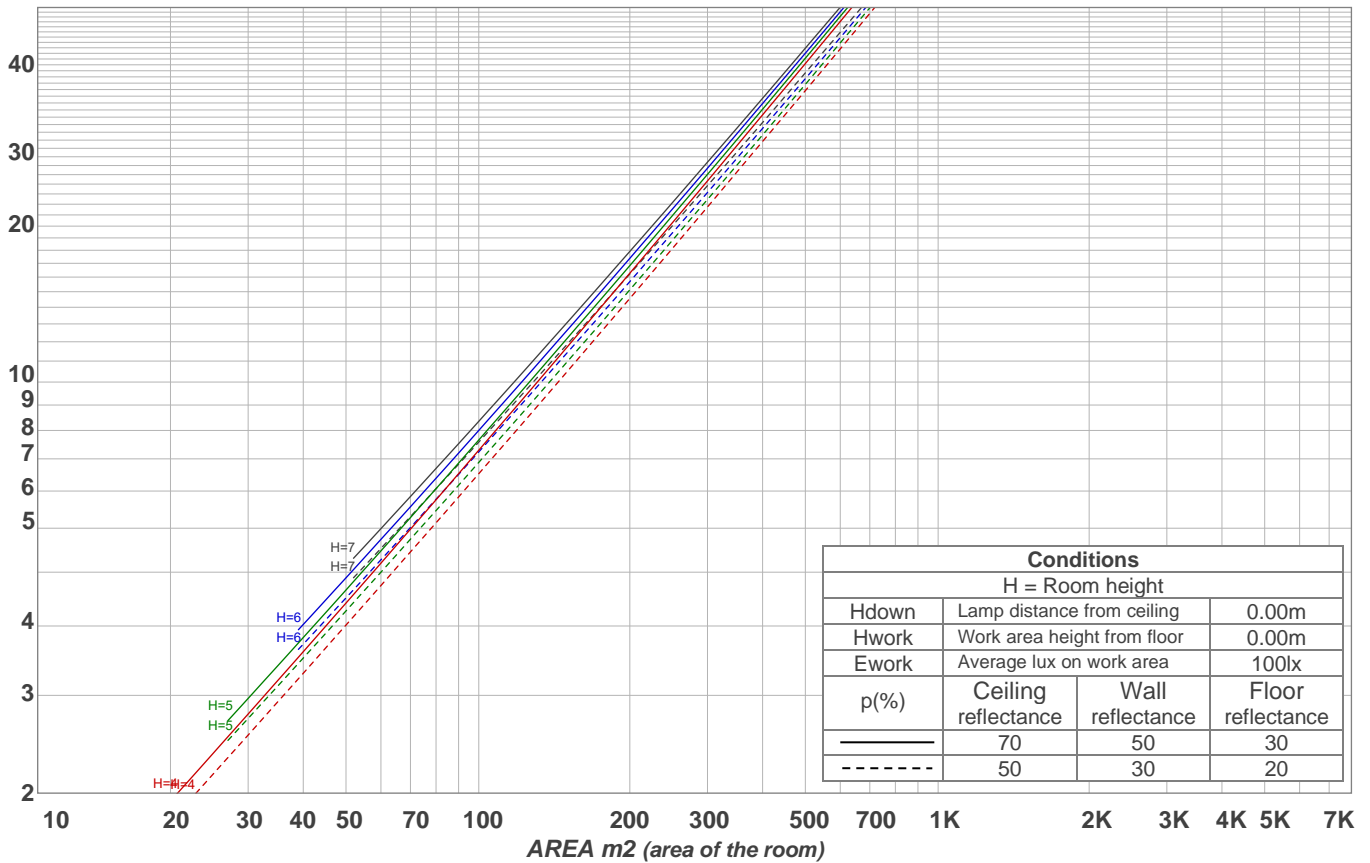
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6187	6042	5557	4812	4014	3251	2572	2009	1592	1304	1089	927	786	645	502	368	252	160	96	57
100%	98%	90%	78%	65%	53%	42%	32%	26%	21%	18%	15%	13%	10%	8%	6%	4%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21°	51.9°	67.4°	99.1%	98.5%

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88	88	
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82	82	
6	96	89	85	82	95	89	85	81	87	84	81	86	83	80	85	82	80	79	79	79	
7	93	86	82	79	92	86	81	78	84	81	78	83	80	78	82	79	77	76	76	76	
8	90	83	79	76	89	83	78	75	82	78	75	81	77	75	80	77	75	74	74	74	
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	75	72	71	71	71	
10	85	78	74	71	84	77	73	71	77	73	70	76	73	70	76	72	70	69	69	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
434 lm	519 lm	313 lm	82.3 lm	12.2 lm	5.14 lm	3.97 lm	4.05 lm	3.63 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