

Light efficiency:



Output: 1274 lm

Light quality:

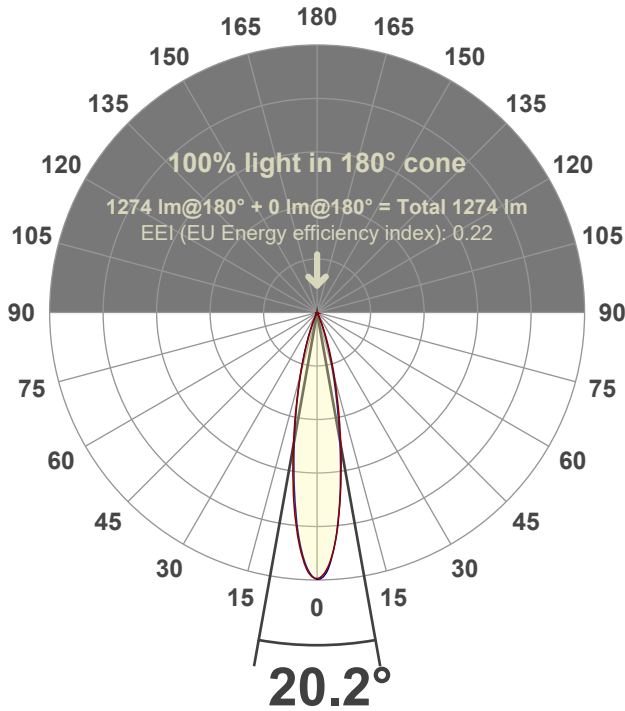


Peak: 8215 cd

Power: 20.7 W



Beam angle



Test number:

GR-F-F-CZ20-30k-SP-SQ-91A-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-CZ20 30k 15° Optic-Solite

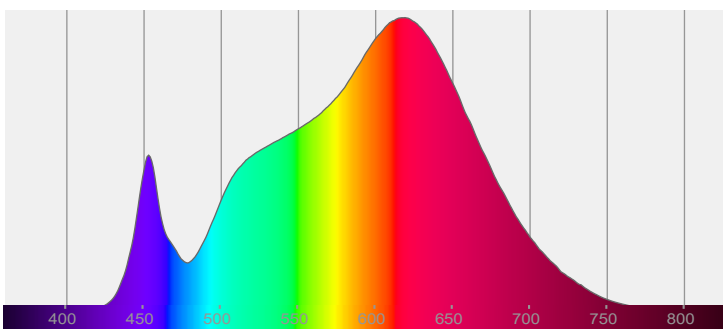
Date and time:

6/30/2022 9:21:53 PM

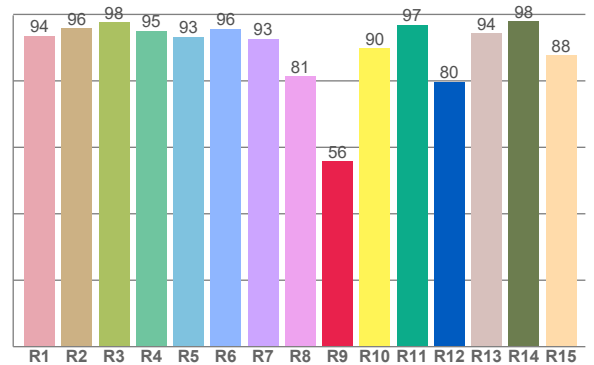
Delivered Lumens

1274

Spectra



CRI: 93.1 (R1-R8)



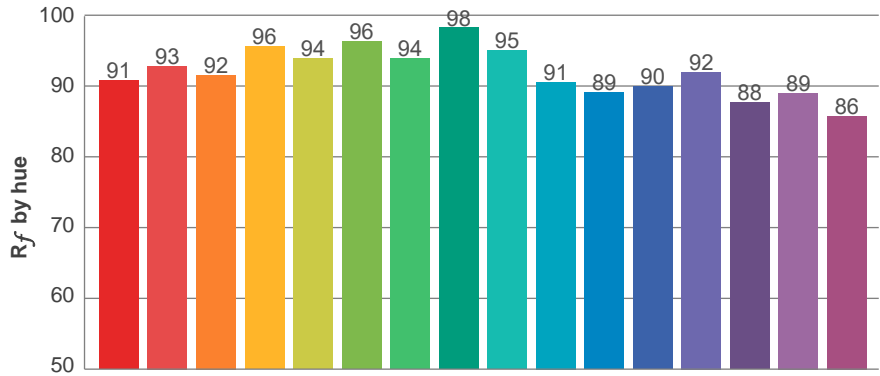
Color parameters

	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
	93.1	55.8	92.1	99.1	91.6	0.438	0.408	0.249	0.349	0.0016

R_f 92.1
Fidelity index R_f

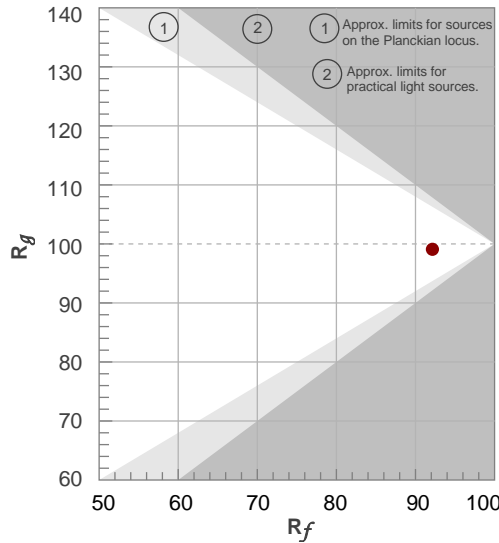
R_g 99.1
Gammut index R_g

TM30: 92.1

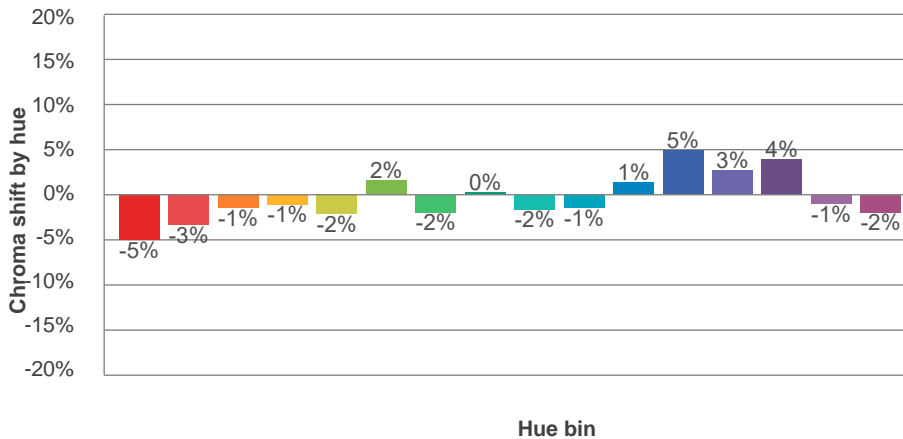
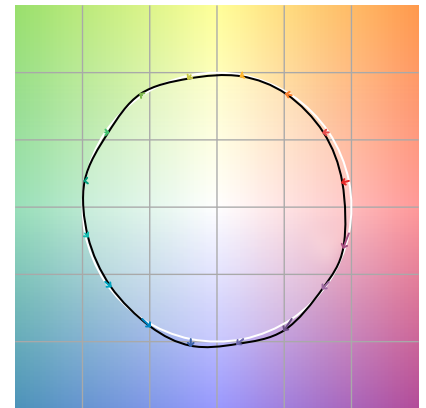


TM-30Color

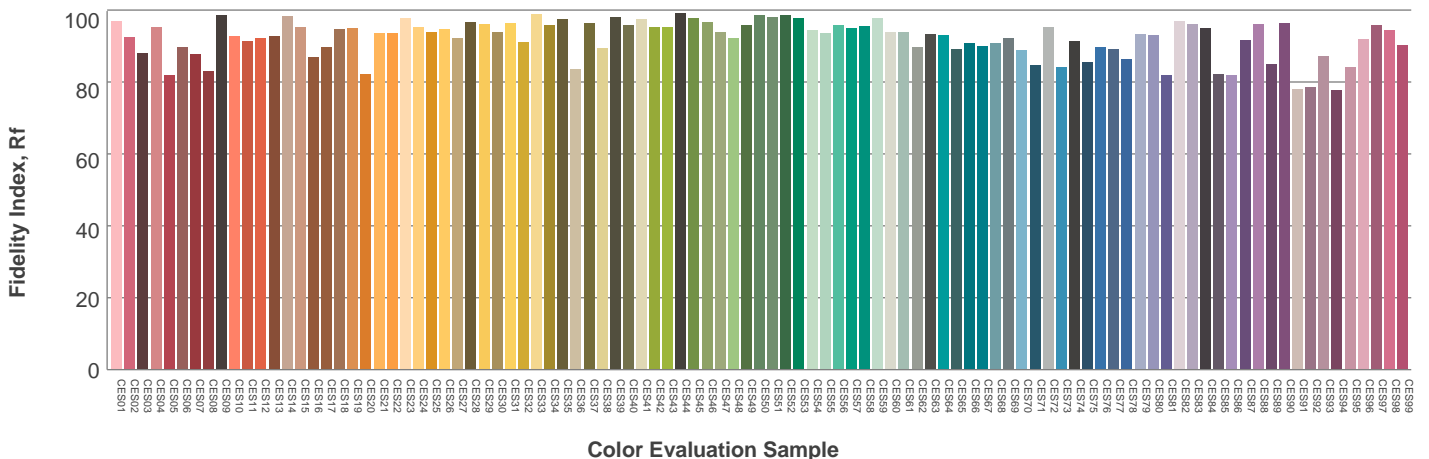
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



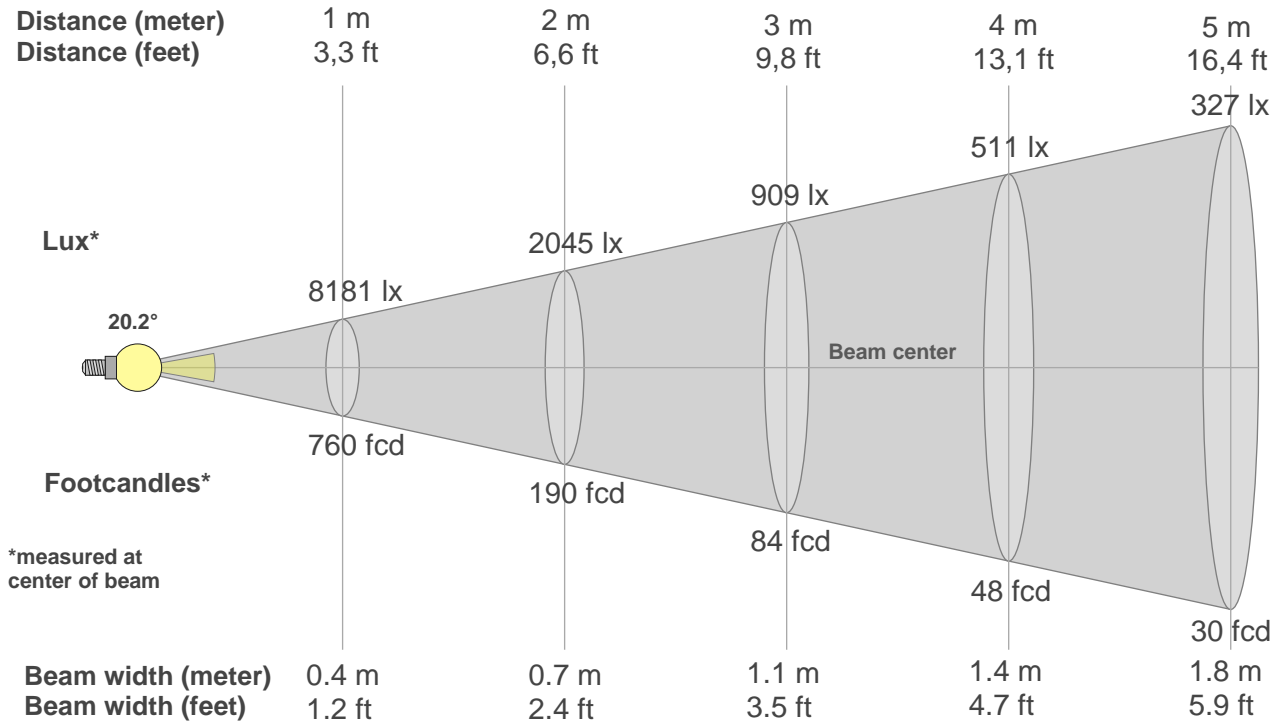
Color vector graphics



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
8181lx	2045lx	909lx	511lx	327lx	227lx	167lx	128lx	101lx	82lx	68lx	57lx	48lx	42lx	36lx	32lx	28lx	25lx	23lx	20lx
760.1fcd	190fcd	84.5fcd	47.5fcd	30.4fcd	21.1fcd	15.5fcd	11.9fcd	9.4fcd	7.6fcd	6.3fcd	5.3fcd	4.5fcd	3.9fcd	3.4fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8181	8069	7901	7656	7269	6881	6350	5819	5290	4761	4245	3761	3276	2864	2457	2104	1791	1494	1252	1010
100%	99%	97%	94%	89%	84%	78%	71%	65%	58%	52%	46%	40%	35%	30%	26%	22%	18%	15%	12%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8181	8101	8003	7675	7289	6839	6307	5771	5195	4618	4074	3542	3050	2627	2205	1878	1551	1279	1034	814
100%	99%	98%	94%	89%	84%	77%	71%	63%	56%	50%	43%	37%	32%	27%	23%	19%	16%	13%	10%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8181	8077	7990	7658	7309	6879	6389	5886	5336	4785	4258	3733	3252	2813	2388	2039	1691	1414	1154	930
100%	99%	98%	94%	89%	84%	78%	72%	65%	58%	52%	46%	40%	34%	29%	25%	21%	17%	14%	11%

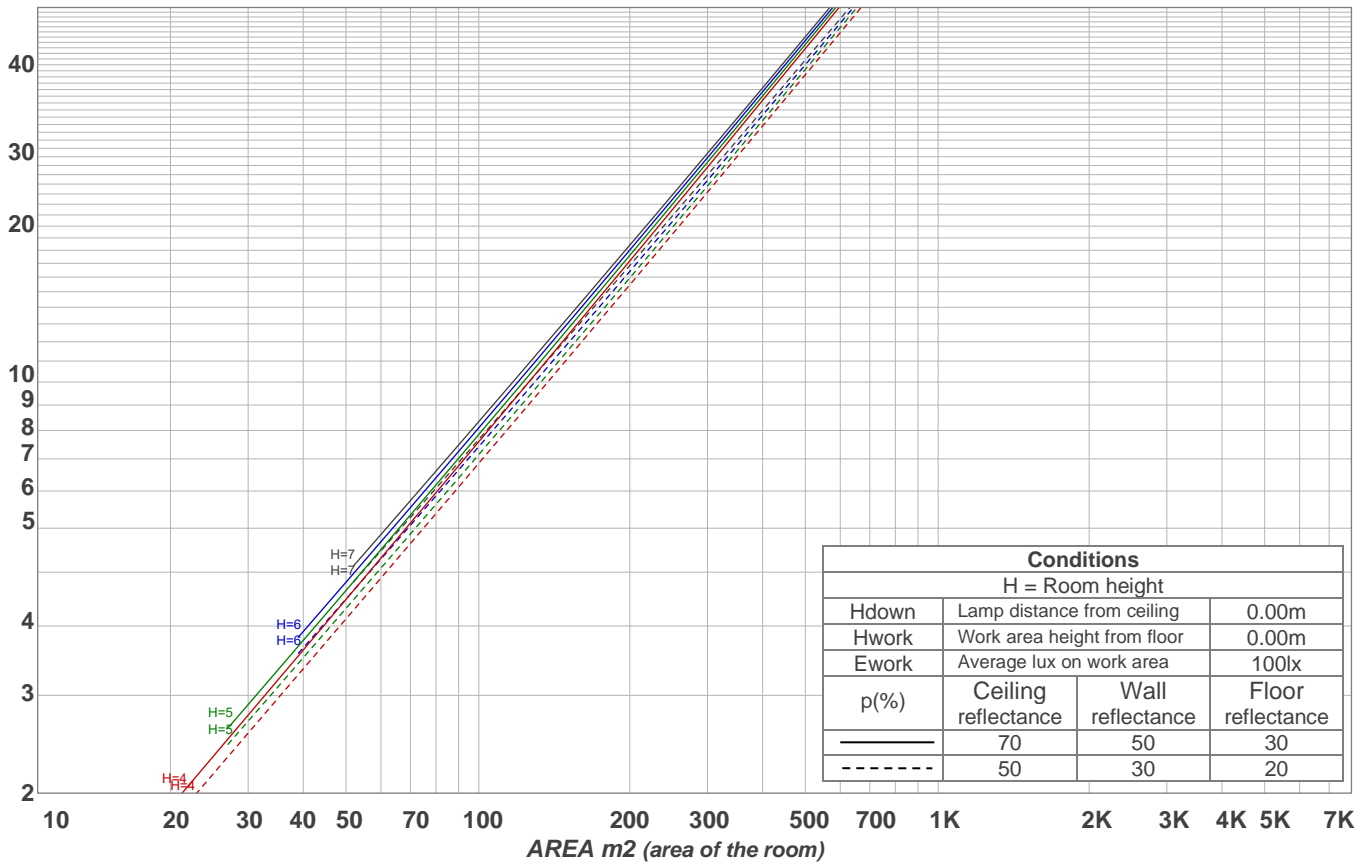
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8181	8066	7889	7602	7198	6776	6229	5682	5138	4595	4077	3593	3115	2725	2335	2008	1708	1430	1194	958
100%	99%	96%	93%	88%	83%	76%	69%	63%	56%	50%	44%	38%	33%	29%	25%	21%	17%	15%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.2°	39.2°	50°	98.7%	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	
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	97	
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94	94	94	
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	91	91	91	
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89	89	89	
5	103	97	93	91	101	96	93	90	95	92	90	93	91	89	92	90	88	87	87	87	
6	100	95	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85	85	85	
7	98	92	88	85	97	91	88	85	90	87	85	89	87	84	88	86	84	83	83	83	
8	96	90	86	83	95	89	86	83	88	85	83	87	85	83	87	84	82	81	81	81	
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	80	80	
10	92	86	82	80	91	85	82	80	85	81	79	84	81	79	83	81	79	78	78	78	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
562 lm	558 lm	112 lm	15.7 lm	6.16 lm	4.12 lm	4.75 lm	5.68 lm	5.42 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