

Light efficiency:



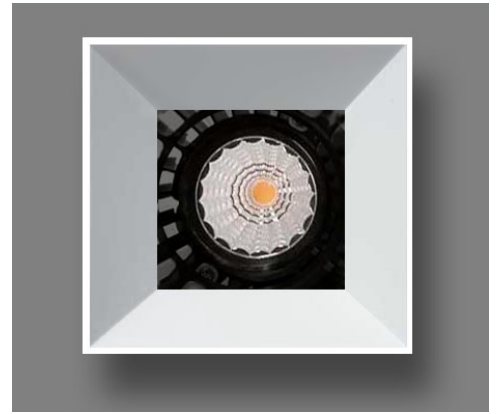
Light quality:



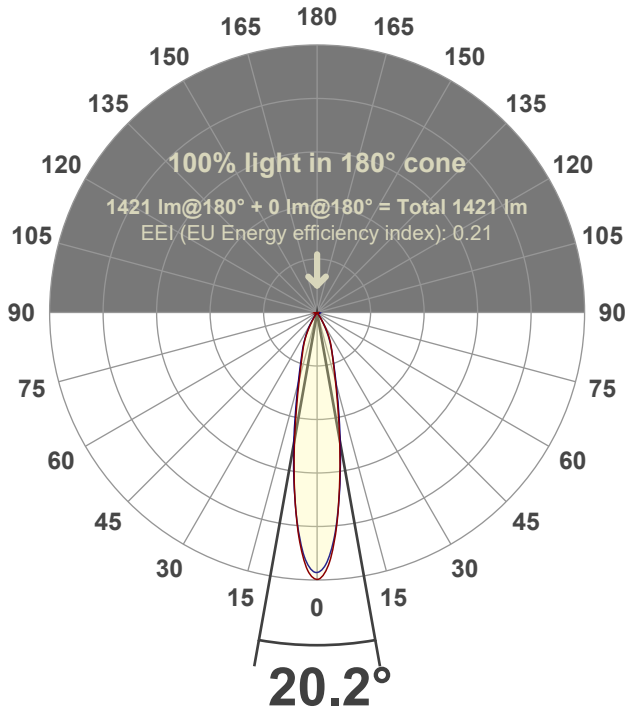
Output: 1421 lm

Peak: 6754 cd

Power: 21.3 W



Beam angle



Test number:

GR-O-F-A20-3019-SP-SQ-91A-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-A20-3019 15° Optic-Solite

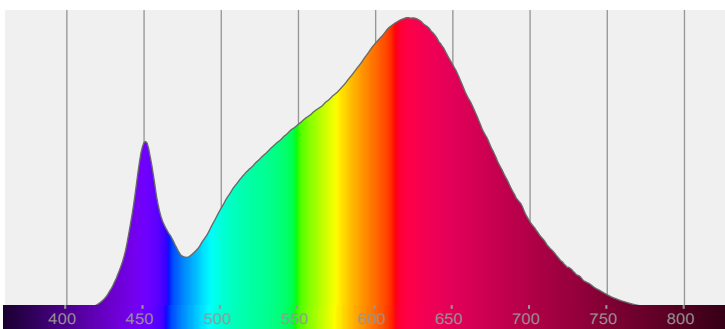
Date and time:

6/21/2022 9:02:01 PM

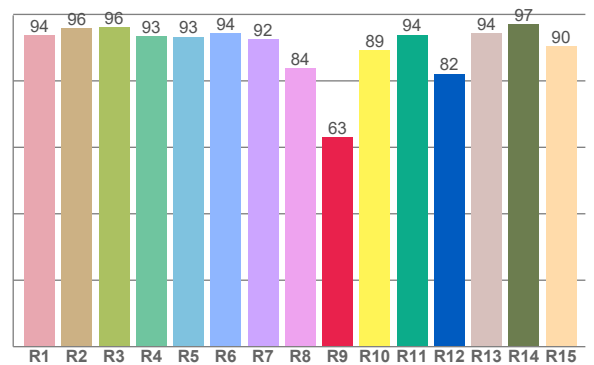
Delivered Lumens

1421

Spectra



CRI: 92.9 (R1-R8)



Color parameters

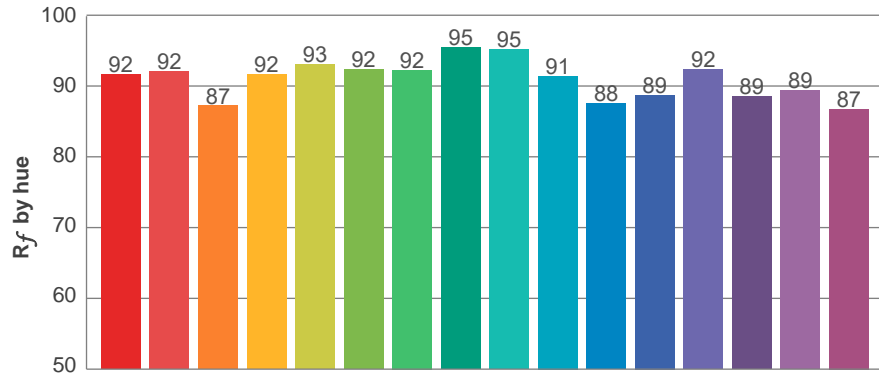
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.0	91.1	101.6	89.9	0.434	0.397	0.251	0.345	-0.0023

R_f 91.1
Fidelity index R_f

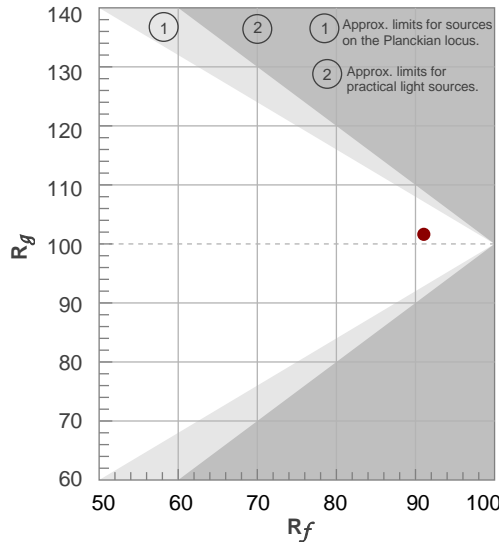
R_g 101.6
Gammut index R_g

TM30: 91.1

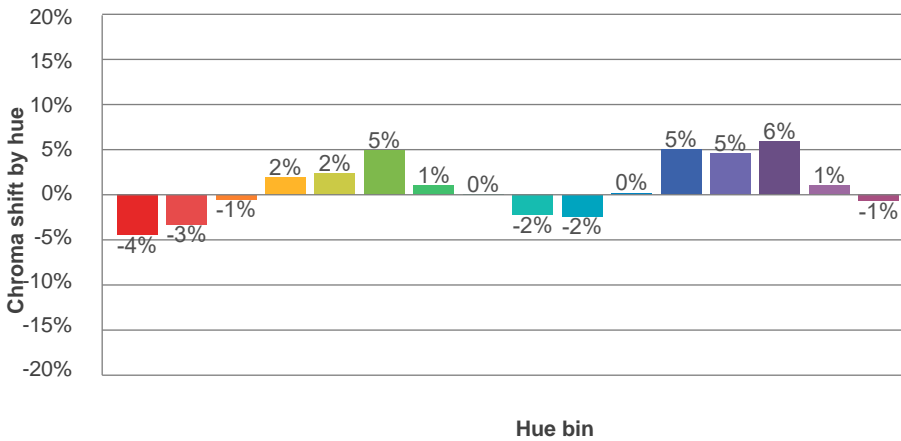
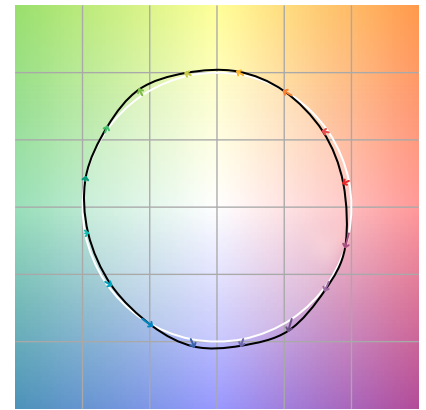
TM-30Color



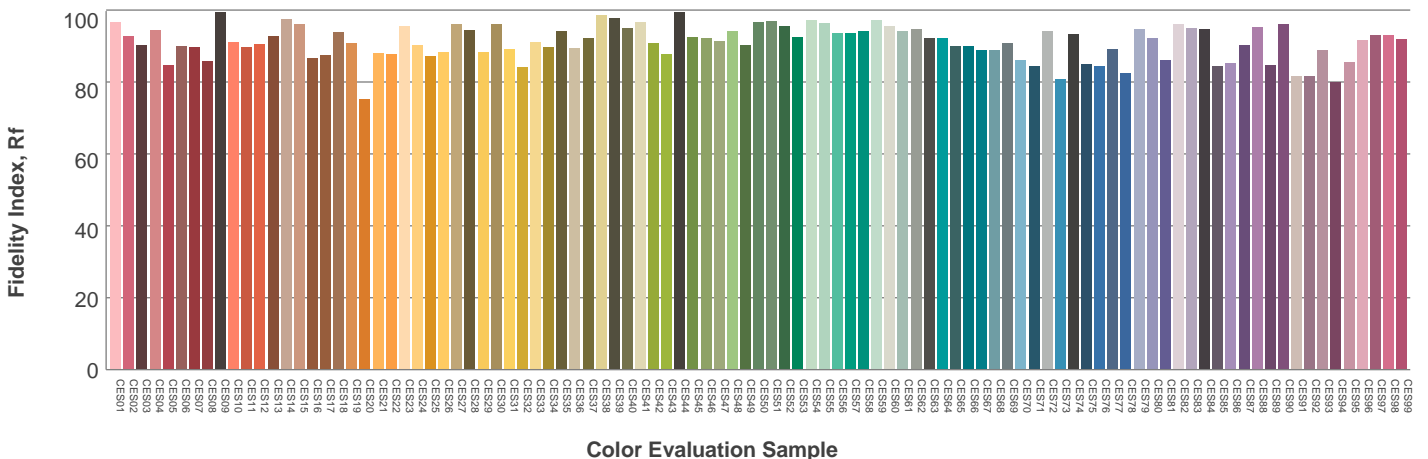
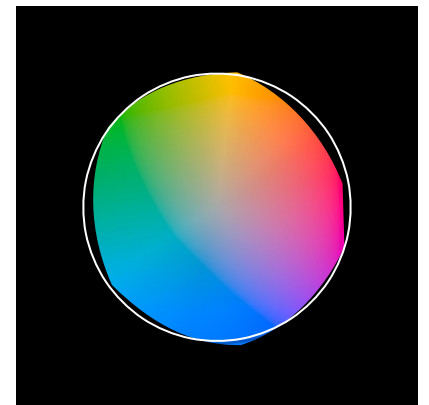
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	92	2%	5%
5	93	2%	4%
6	92	5%	-1%
7	92	1%	-4%
8	95	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



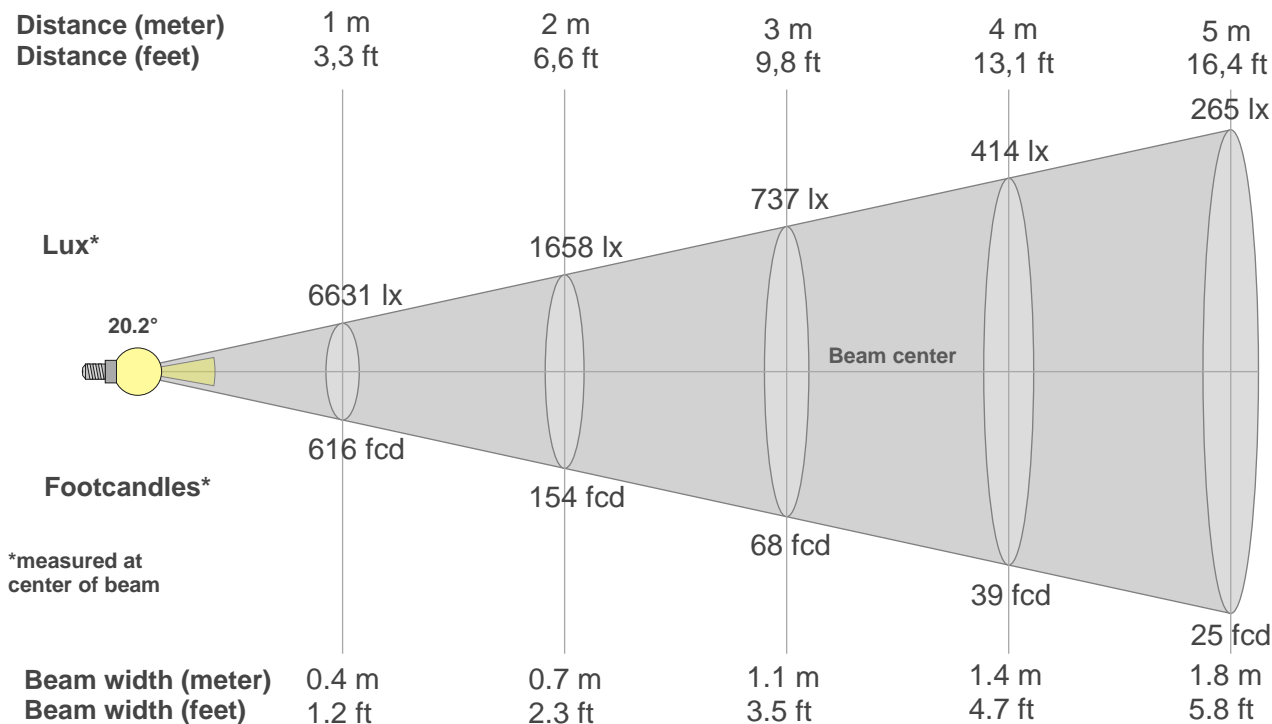
Color vector graphics



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
6631lx	1658lx	737lx	414lx	265lx	184lx	135lx	104lx	82lx	66lx	55lx	46lx	39lx	34lx	29lx	26lx	23lx	20lx	18lx	17lx
616fcd	154fcd	68.4fcd	38.5fcd	24.6fcd	17.1fcd	12.6fcd	9.6fcd	7.6fcd	6.2fcd	5.1fcd	4.3fcd	3.6fcd	3.1fcd	2.7fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd

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°
6631	6474	5896	5081	4155	3315	2611	2052	1634	1339	1136	978	836	692	538	387	262	164	93	50
100%	98%	89%	77%	63%	50%	39%	31%	25%	20%	17%	15%	13%	10%	8%	6%	4%	2%	1%	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°
6631	6380	5812	5050	4217	3407	2683	2118	1696	1381	1142	951	792	630	475	335	221	146	96	61
100%	96%	88%	76%	64%	51%	40%	32%	26%	21%	17%	14%	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°
6631	6543	5920	5102	4201	3320	2551	1994	1588	1296	1086	931	781	624	468	326	210	132	78	44
100%	99%	89%	77%	63%	50%	38%	30%	24%	20%	16%	14%	12%	9%	7%	5%	3%	2%	1%	1%

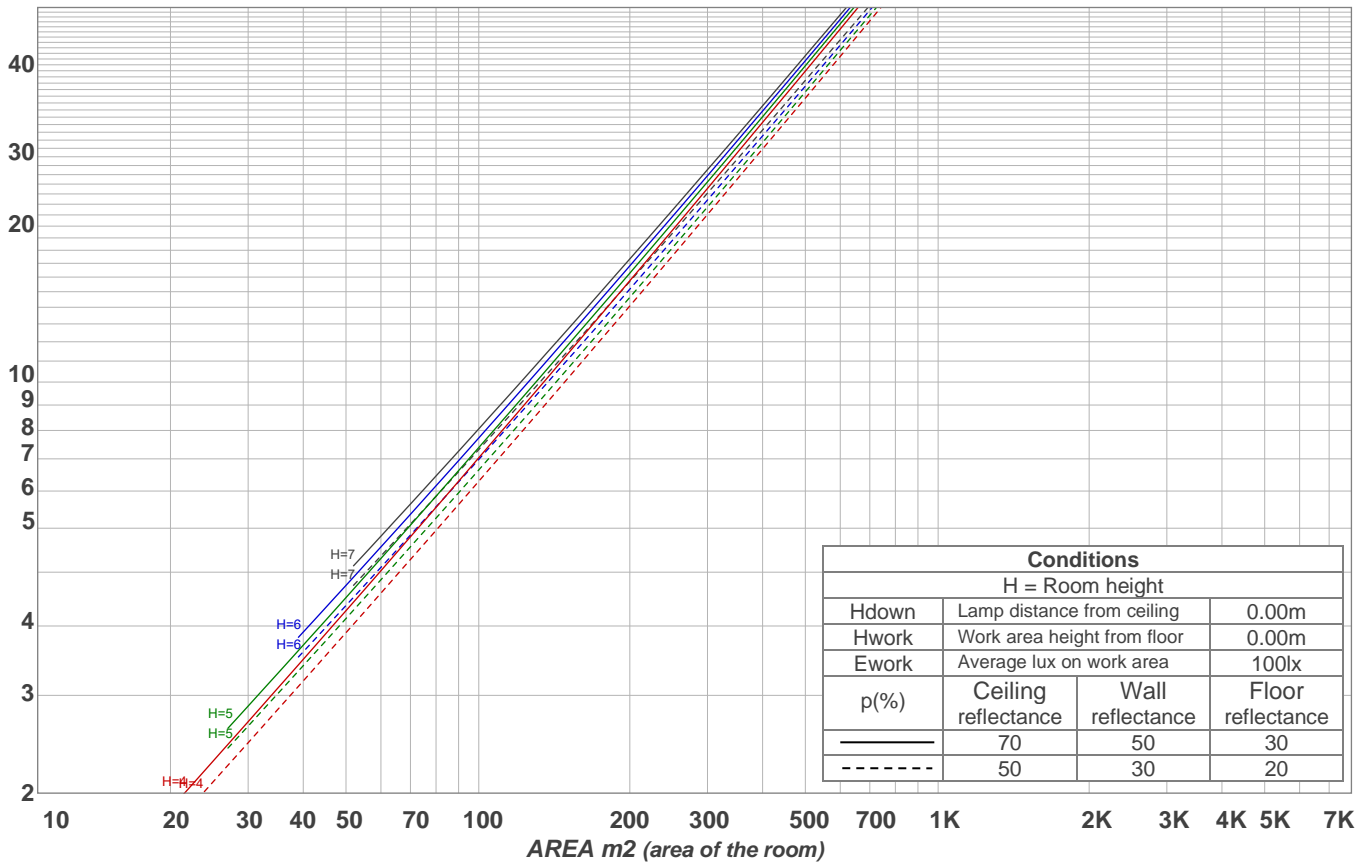
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6631	6348	5841	5097	4241	3422	2702	2118	1676	1357	1145	973	817	666	522	386	271	181	116	73
100%	96%	88%	77%	64%	52%	41%	32%	25%	20%	17%	15%	12%	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
20.2°	51.7°	67.4°	99.2%	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		
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96		
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92	92		
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88		
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85		
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82		
6	96	90	85	82	95	89	85	81	87	84	81	86	83	80	85	82	80	79	79		
7	93	86	82	79	92	86	81	78	84	81	78	83	80	78	82	79	77	76	76		
8	90	83	79	76	89	83	78	75	82	78	75	81	77	75	80	77	75	74	74		
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	75	72	71	71		
10	85	78	74	71	84	77	73	71	77	73	70	76	73	70	76	72	70	69	69		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
452 lm	526 lm	327 lm	88.1 lm	11.7 lm	5.17 lm	3.98 lm	3.97 lm	3.39 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