

Light efficiency:



Output: 961 lm

Light quality:

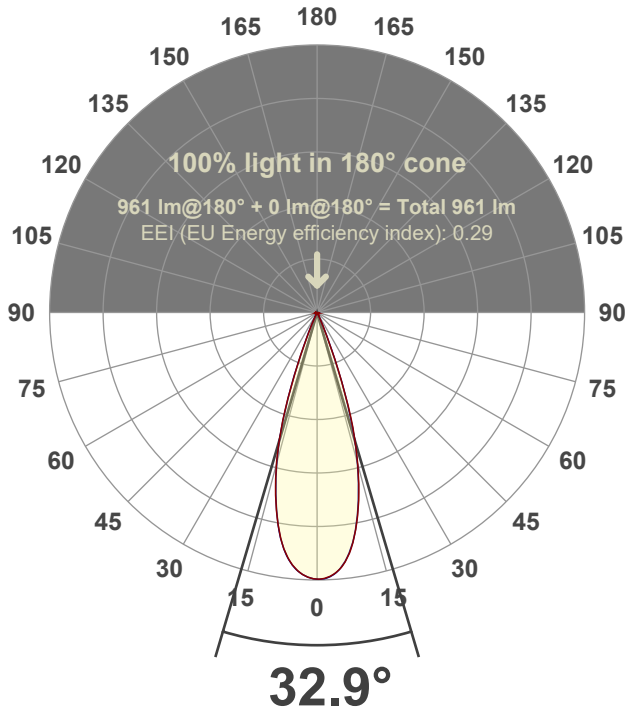


Peak: 3484 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-FL-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A20-3019 38° Optic

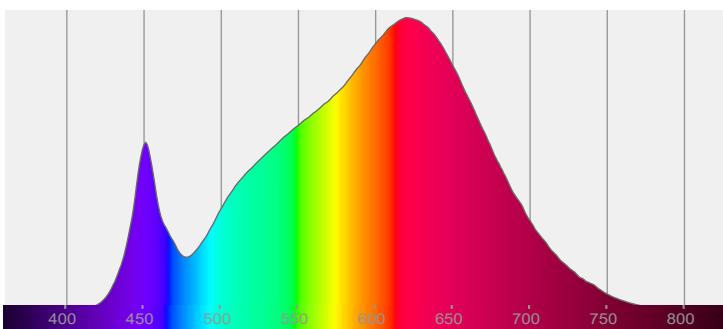
Date and time:

6/21/2022 8:09:52 PM

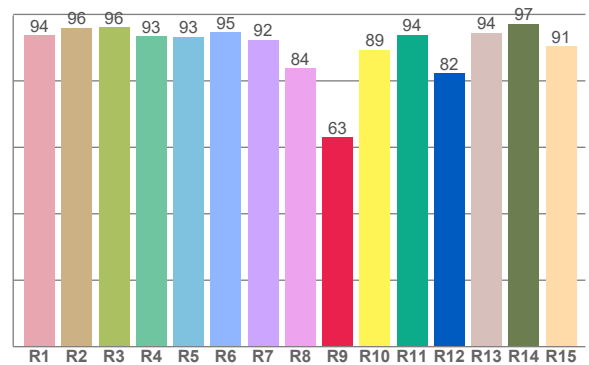
Delivered Lumens

961

Spectra



CRI: 92.9 (R1-R8)



Color parameters

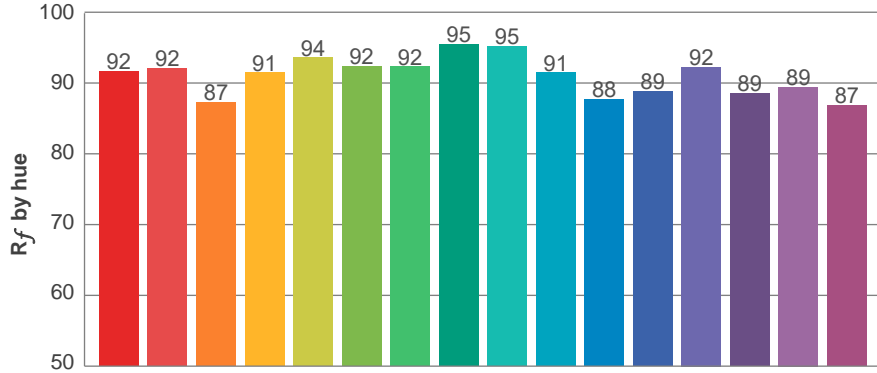
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.0	91.1	101.6	89.9	0.434	0.397	0.252	0.345	-0.0024

R_f 91.1
Fidelity index R_f

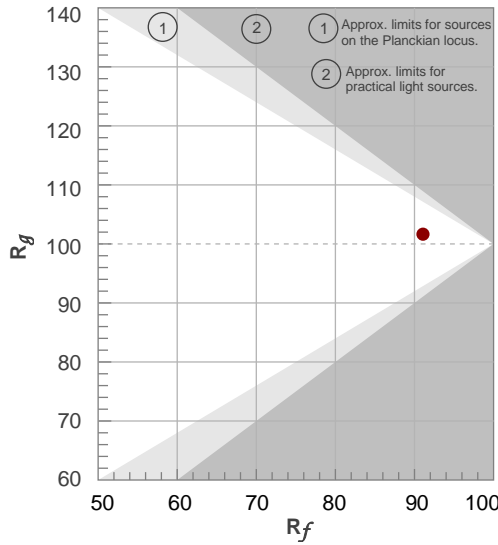
R_g 101.6
Gammut index R_g

TM30: 91.1

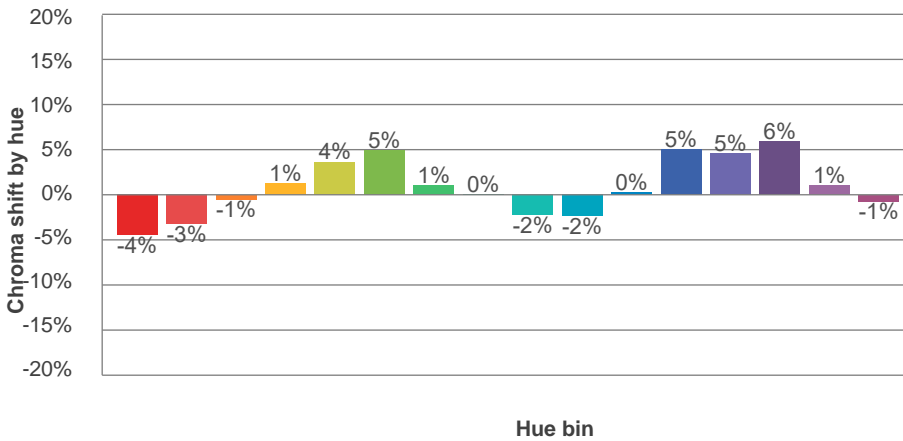
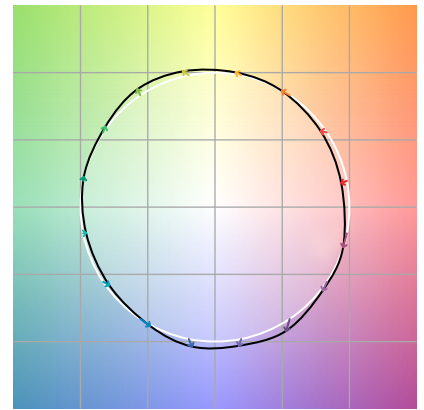
TM-30Color



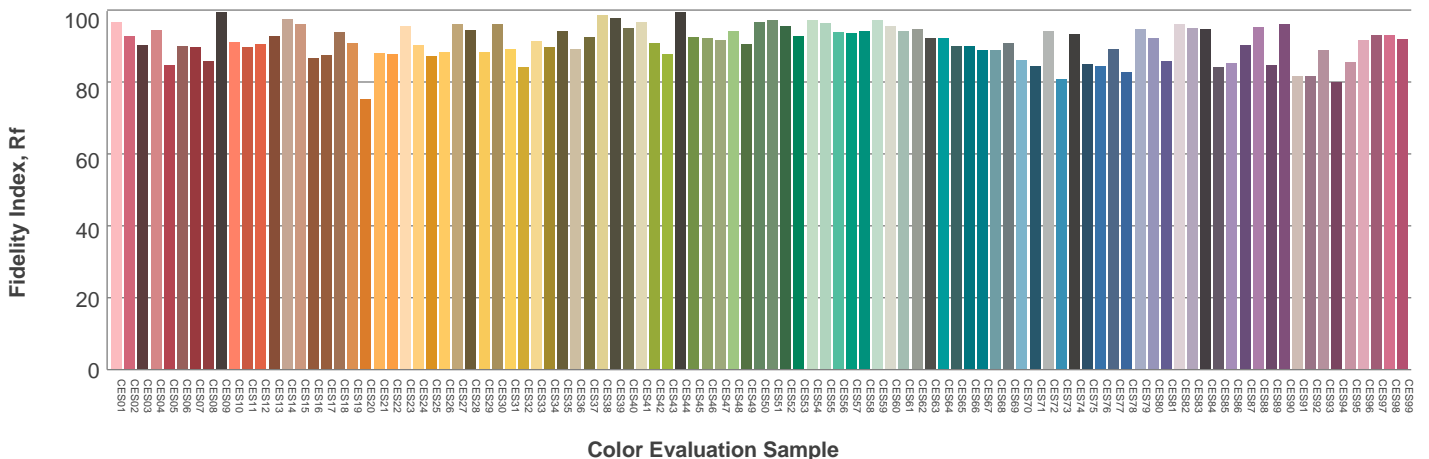
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-4%
8	95	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



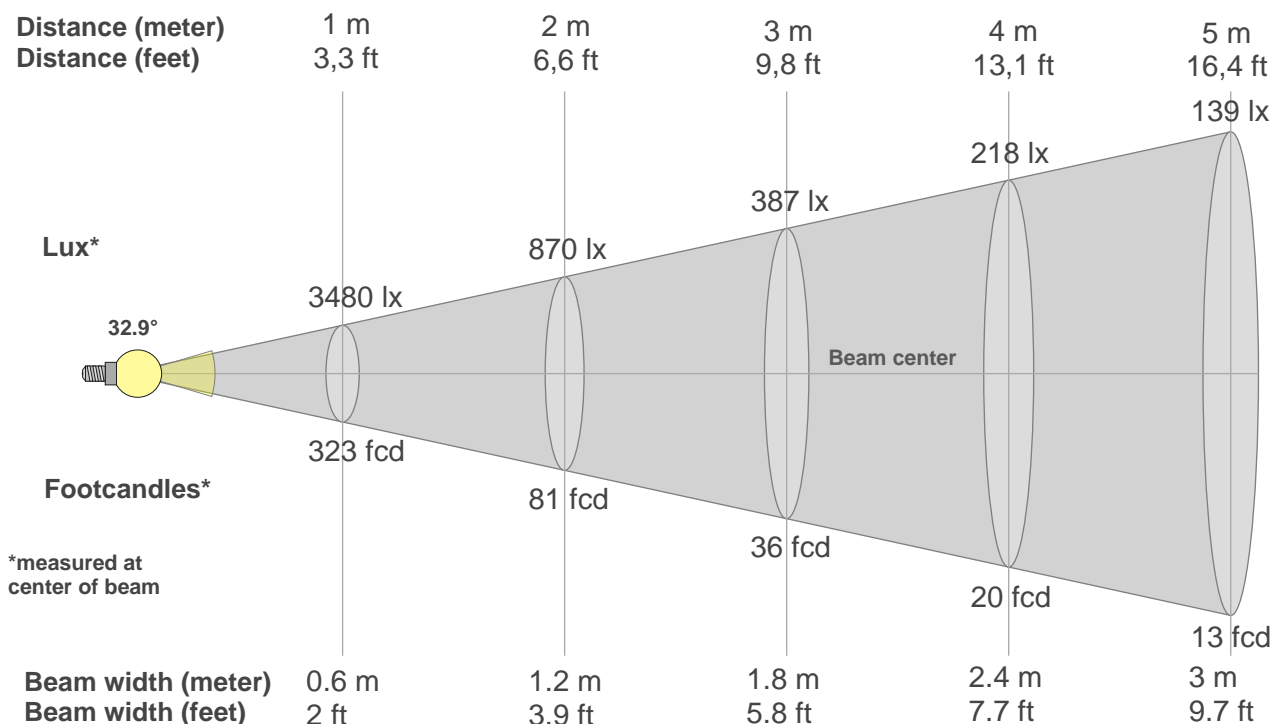
Color vector graphics



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
3480lx	870lx	387lx	218lx	139lx	97lx	71lx	54lx	43lx	35lx	29lx	24lx	21lx	18lx	15lx	14lx	12lx	11lx	10lx	9lx
323.3fcd	80.8fcd	35.9fcd	20.2fcd	12.9fcd	9fcd	6.6fcd	5.1fcd	4fcd	3.2fcd	2.7fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd

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°
3480	3462	3407	3308	3135	2887	2589	2243	1850	1415	888	460	211	95	41	19	14	10	7	5
100%	99%	98%	95%	90%	83%	74%	64%	53%	41%	26%	13%	6%	3%	1%	1%	0%	0%	0%	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°
3480	3472	3410	3294	3119	2880	2578	2224	1828	1370	887	460	186	85	39	19	13	10	9	6
100%	100%	98%	95%	90%	83%	74%	64%	53%	39%	25%	13%	5%	2%	1%	1%	0%	0%	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°
3480	3455	3395	3285	3110	2870	2576	2239	1857	1399	890	480	224	106	43	20	13	9	7	5
100%	99%	98%	94%	89%	82%	74%	64%	53%	40%	26%	14%	6%	3%	1%	1%	0%	0%	0%	0%

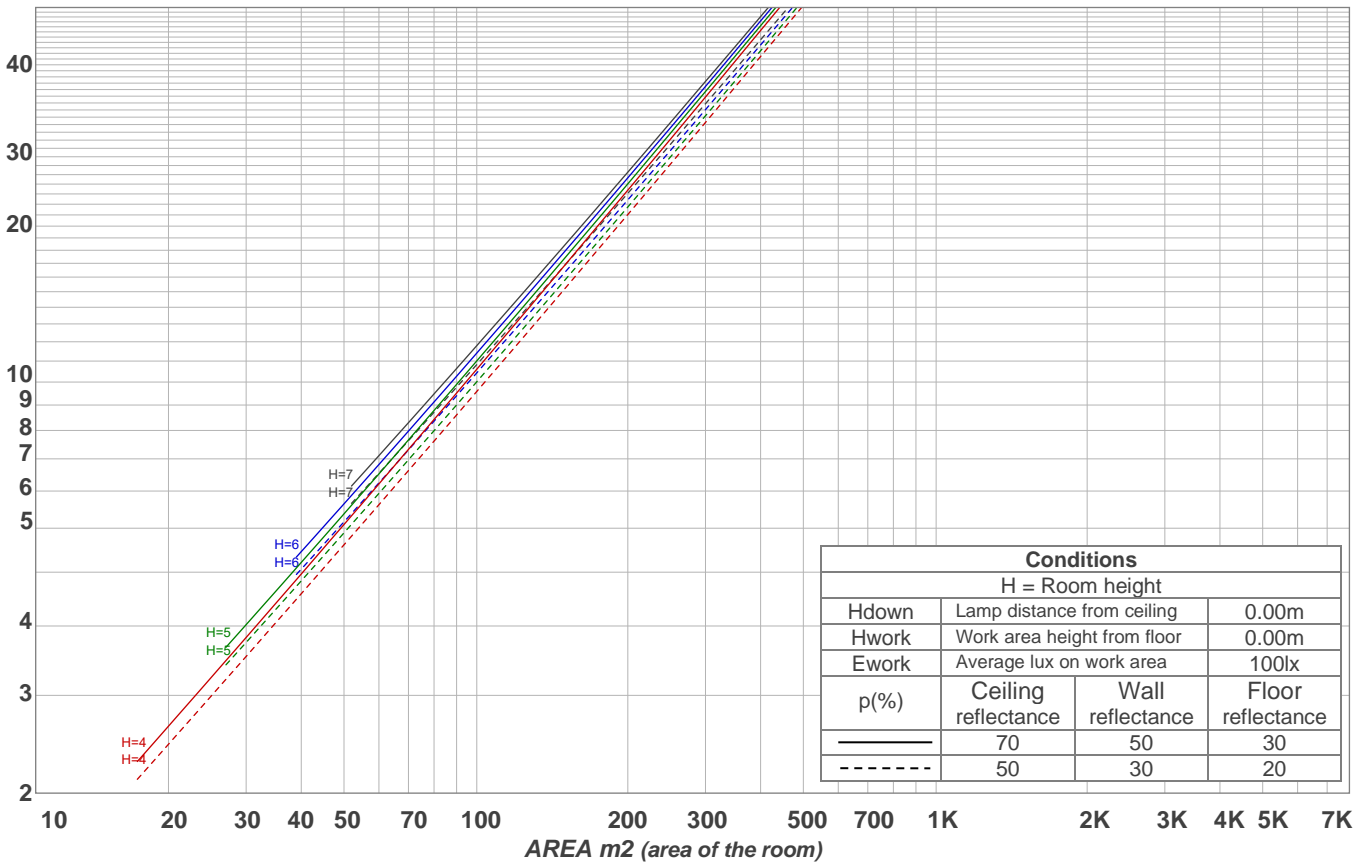
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3480	3455	3391	3280	3114	2881	2569	2221	1830	1382	899	458	223	107	49	23	13	9	8	7
100%	99%	97%	94%	89%	83%	74%	64%	53%	40%	26%	13%	6%	3%	1%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.9°	45.5°	52.6°	98.9%	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	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	
2	111	107	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	93	93	
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	92	90	90	90	
4	104	99	95	92	103	98	95	92	96	93	91	94	92	90	93	90	89	88	88	88	
5	101	96	92	89	100	95	91	88	93	90	88	92	89	87	90	88	86	85	85	85	
6	99	93	88	86	97	92	88	85	91	87	85	89	86	84	88	86	84	83	83	83	
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	83	81	80	80	80	
8	94	87	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78	78	78	
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	76	76	
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74	74	74	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
306 lm	534 lm	101 lm	5.71 lm	2.41 lm	2.20 lm	2.97 lm	3.75 lm	4.16 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