

Light efficiency:



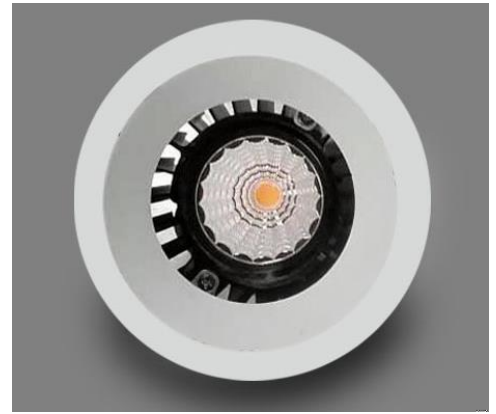
Light quality:



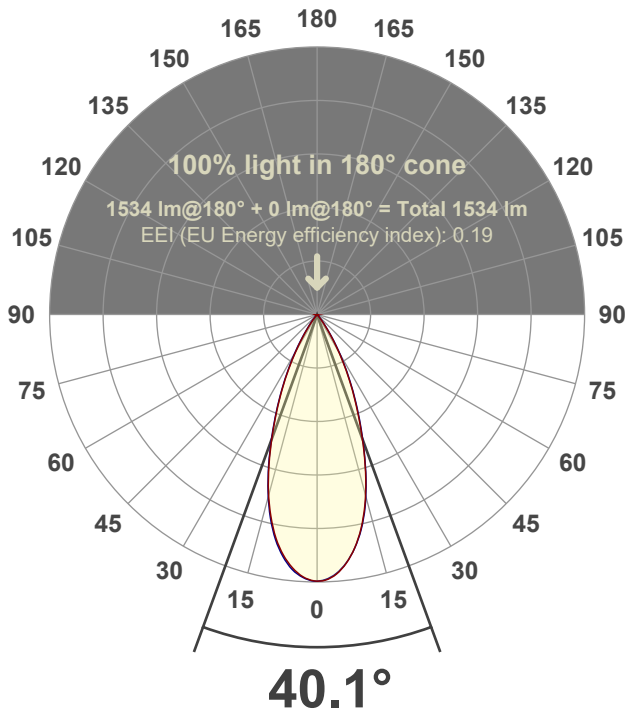
Output: 1534 lm

Peak: 3148 cd

Power: 21.3 W



Beam angle



Test number:

GR-O-F-A20-3019-FL-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A20-3019 38° Optic-Solite

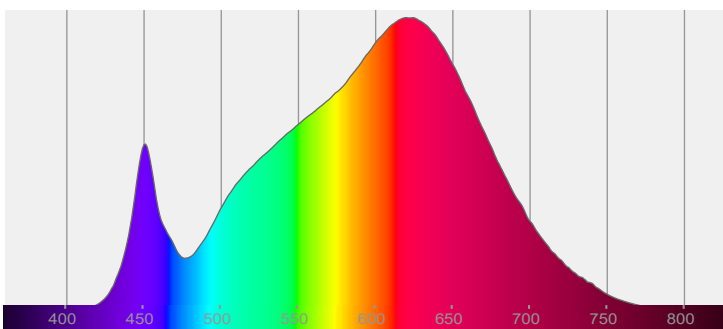
Date and time:

4/28/2022 8:13:02 PM

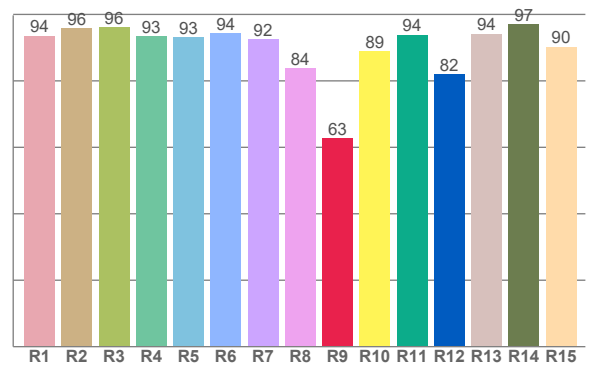
Delivered Lumens

1534

Spectra



CRI: 92.8 (R1-R8)



Color parameters

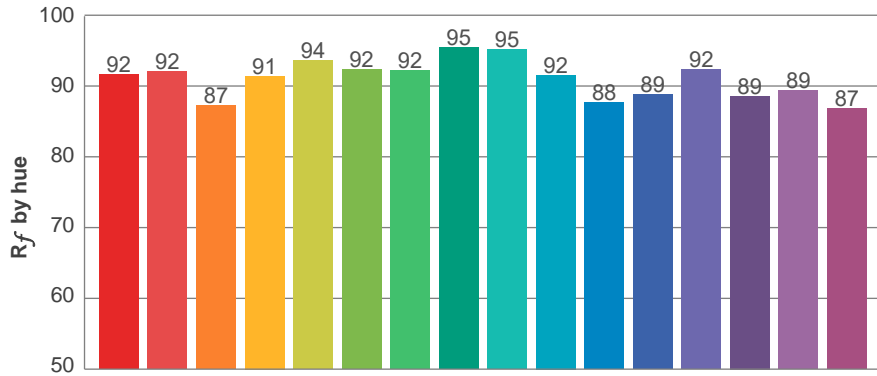
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	62.6	91.1	101.6	89.9	0.435	0.398	0.252	0.346	-0.0020

R_f 91.1
Fidelity index R_f

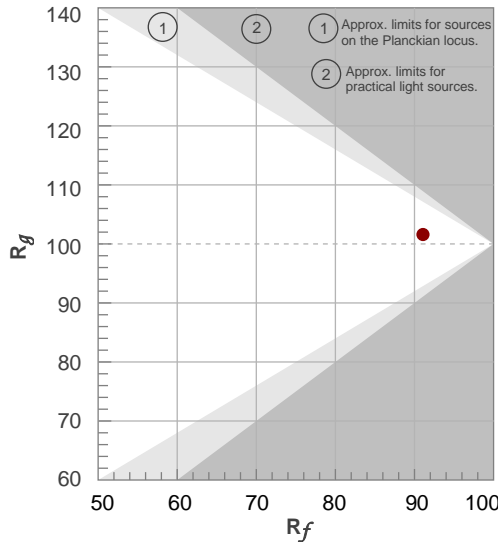
R_g 101.6
Gammut index R_g

TM30: 91.1

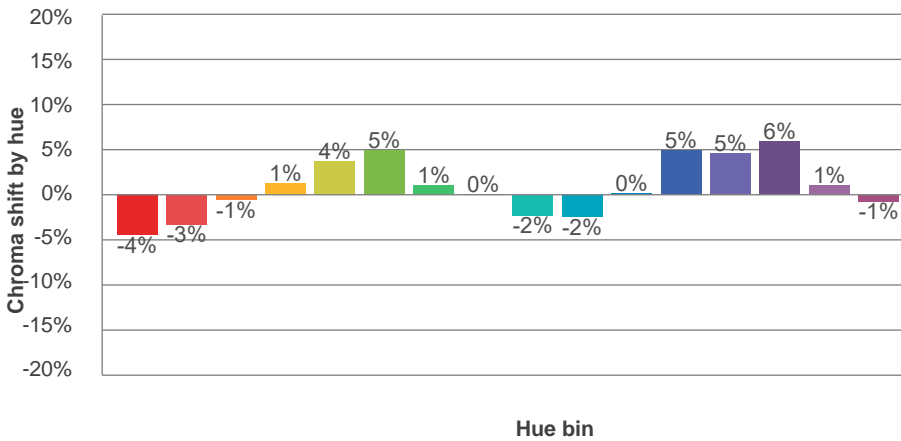
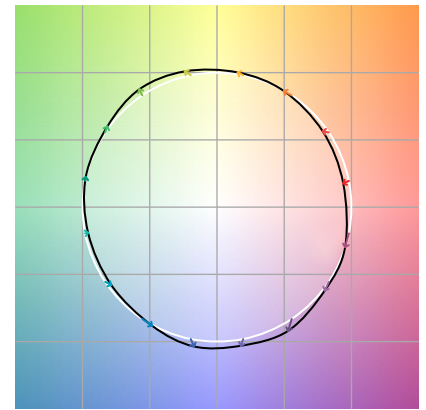
TM-30Color



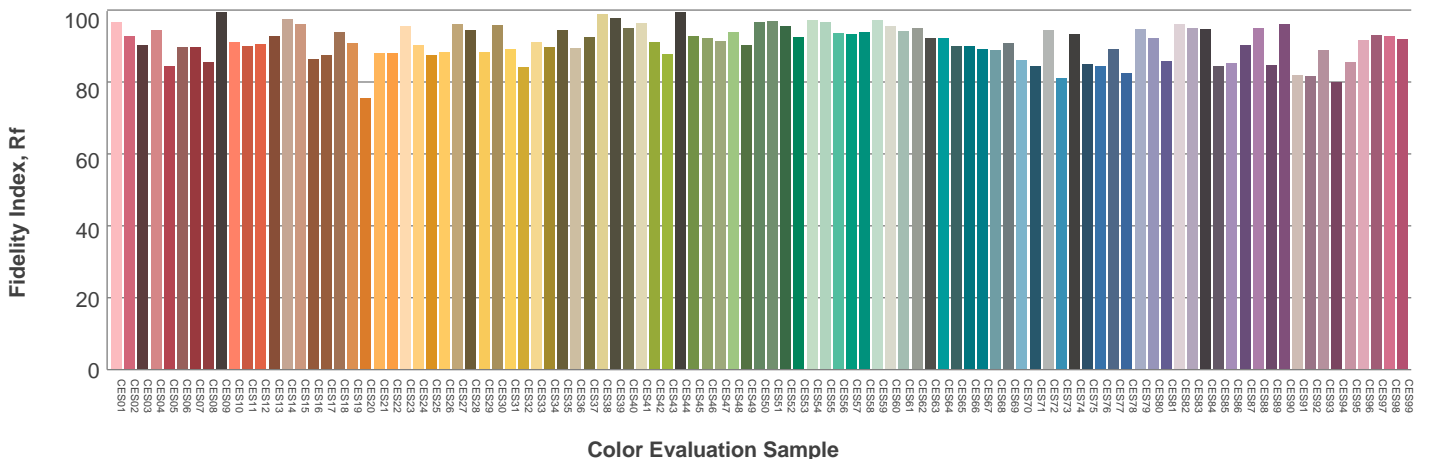
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	4%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



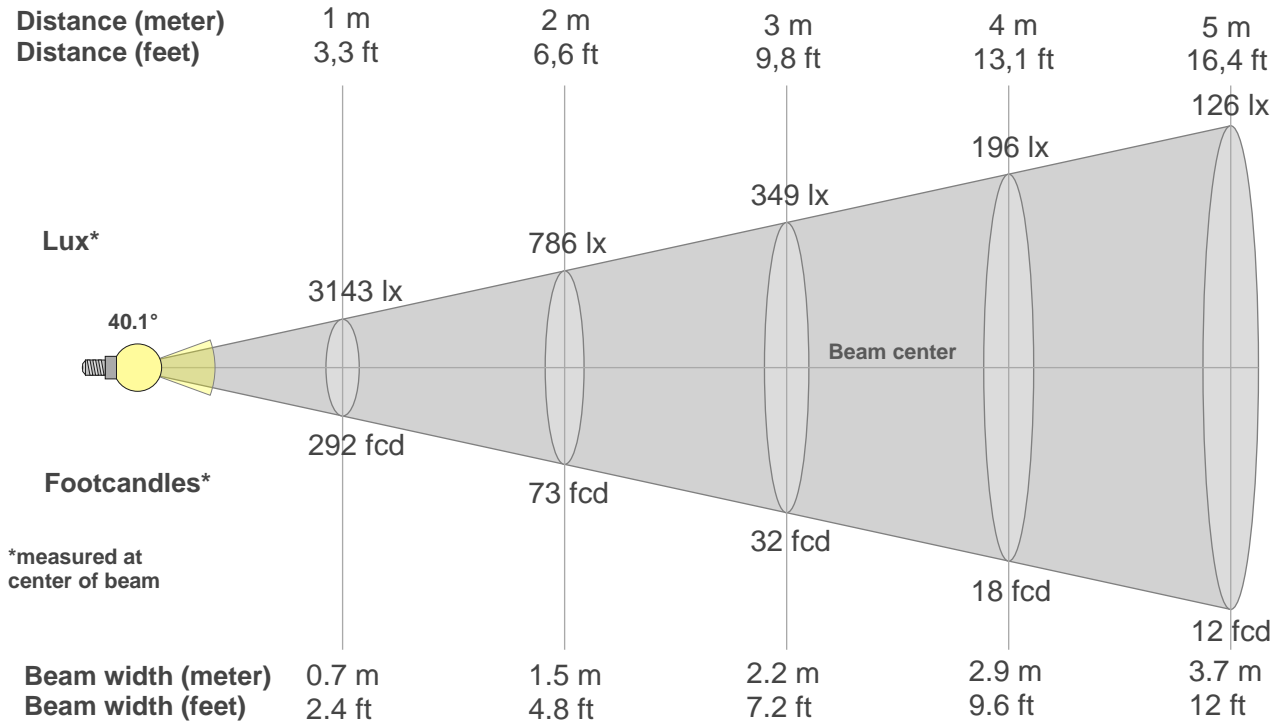
Color vector graphics



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
3143lx	786lx	349lx	196lx	126lx	87lx	64lx	49lx	39lx	31lx	26lx	22lx	19lx	16lx	14lx	12lx	11lx	10lx	9lx	8lx
292fcd	73fcd	32.4fcd	18.3fcd	11.7fcd	8.1fcd	6fcd	4.6fcd	3.6fcd	2.9fcd	2.4fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

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°
3143	3133	3081	2991	2870	2720	2541	2331	2090	1833	1575	1327	1100	898	710	539	388	261	167	107
100%	100%	98%	95%	91%	87%	81%	74%	66%	58%	50%	42%	35%	29%	23%	17%	12%	8%	5%	3%

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°
3143	3125	3073	2985	2868	2724	2552	2346	2101	1845	1590	1346	1122	917	731	563	415	287	189	127
100%	99%	98%	95%	91%	87%	81%	75%	67%	59%	51%	43%	36%	29%	23%	18%	13%	9%	6%	4%

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°
3143	3121	3066	2980	2868	2718	2535	2326	2093	1837	1575	1329	1101	890	696	520	372	253	162	100
100%	99%	98%	95%	91%	86%	81%	74%	67%	58%	50%	42%	35%	28%	22%	17%	12%	8%	5%	3%

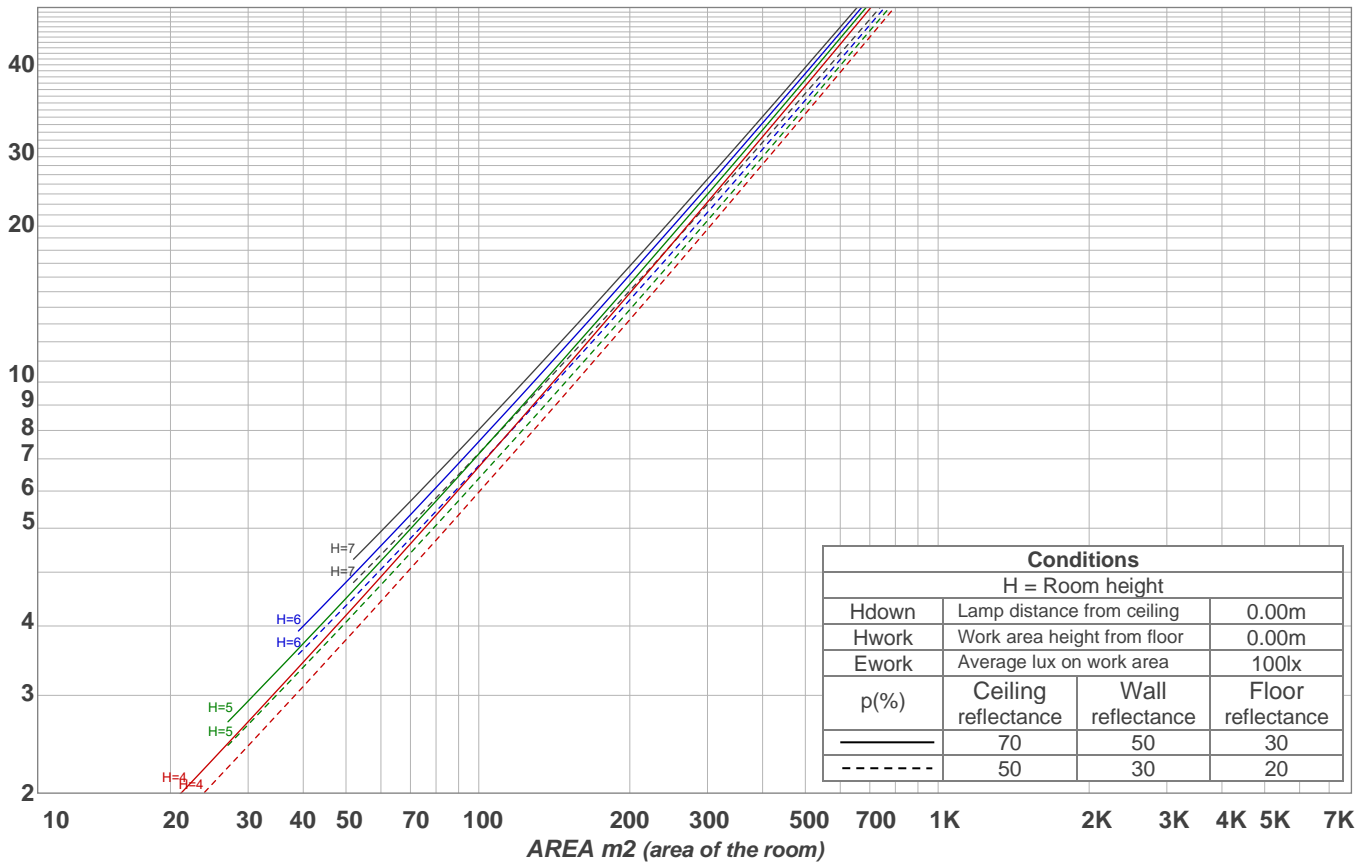
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3143	3127	3079	3002	2889	2739	2557	2345	2108	1853	1591	1346	1118	907	716	549	405	282	189	125
100%	99%	98%	96%	92%	87%	81%	75%	67%	59%	51%	43%	36%	29%	23%	17%	13%	9%	6%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.1°	66.5°	79.6°	99.3%	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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95	95	95	
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	90	
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	81	77	75	73	73	73	
7	89	81	76	73	88	81	76	72	80	75	72	78	75	72	77	74	71	70	70	70	
8	86	78	73	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67	67	67	
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64	64	64	
10	80	71	66	63	79	71	66	63	70	66	63	69	65	63	69	65	63	61	61	61	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
280 lm	605 lm	459 lm	150 lm	23.3 lm	5.67 lm	3.71 lm	3.99 lm	3.28 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