

Light efficiency:



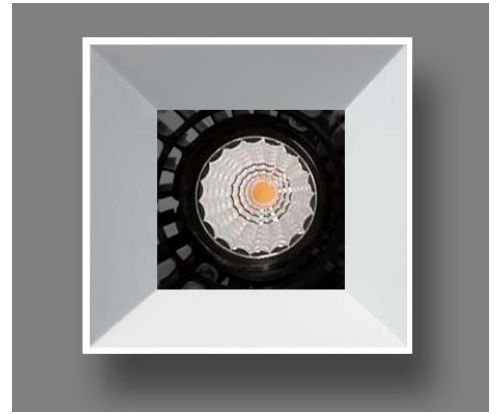
Output: 1391 lm

Light quality:

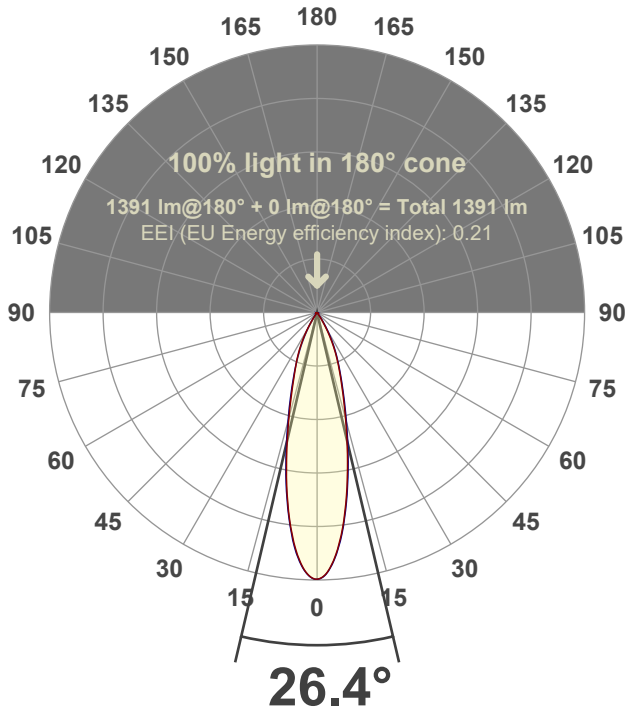


Peak: 4740 cd

Power: 21.3 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Square Fixed Downlight-A20-3019 24° Optic-Solite

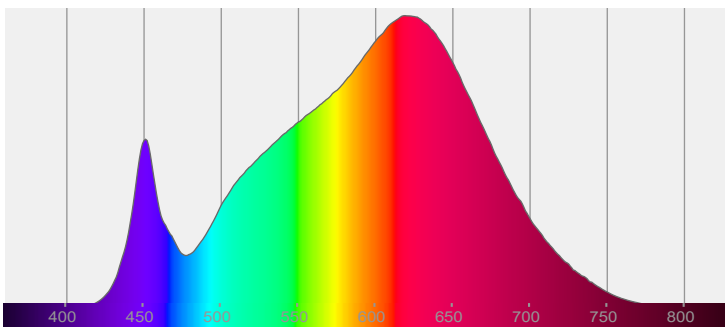
Date and time:

6/21/2022 8:28:00 PM

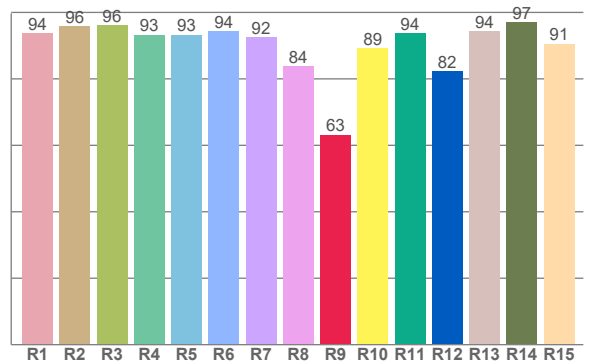
Delivered Lumens

1391

Spectra



CRI: 92.9 (R1-R8)



Color parameters

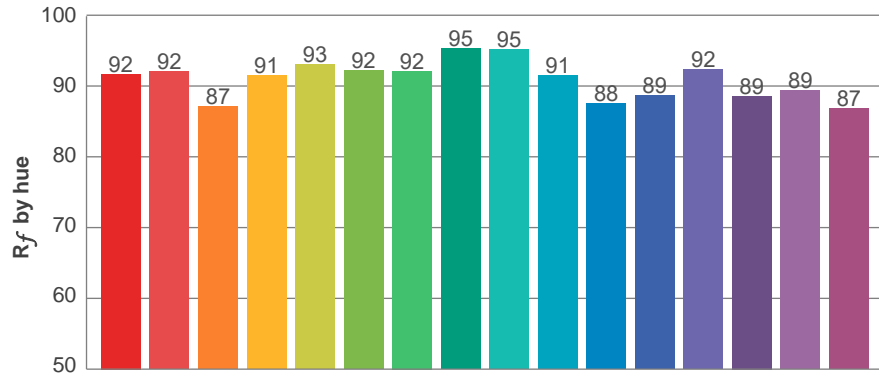
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.2	91.0	101.7	89.8	0.433	0.397	0.251	0.345	-0.0024

R_f 91.0
Fidelity index R_f

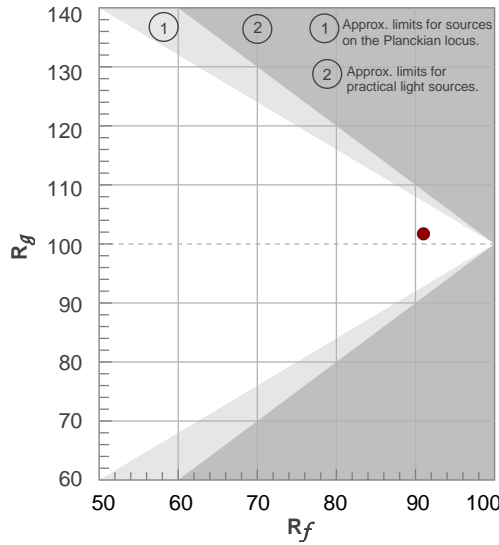
R_g 101.7
Gammut index R_g

TM30: 91.0

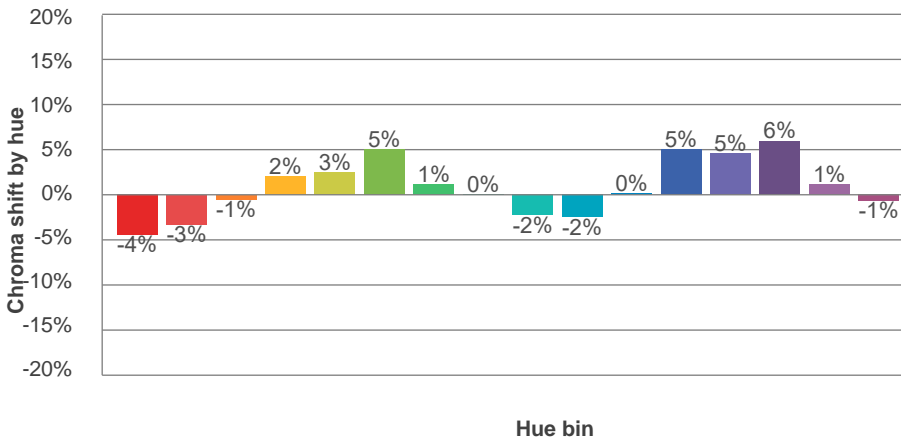
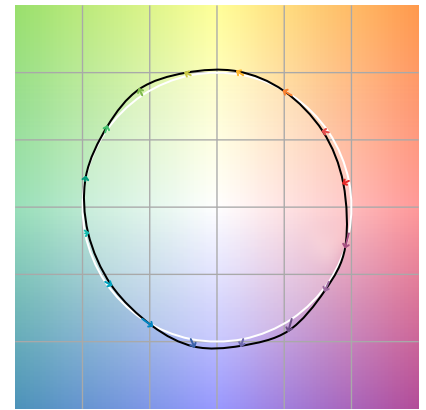
TM-30Color



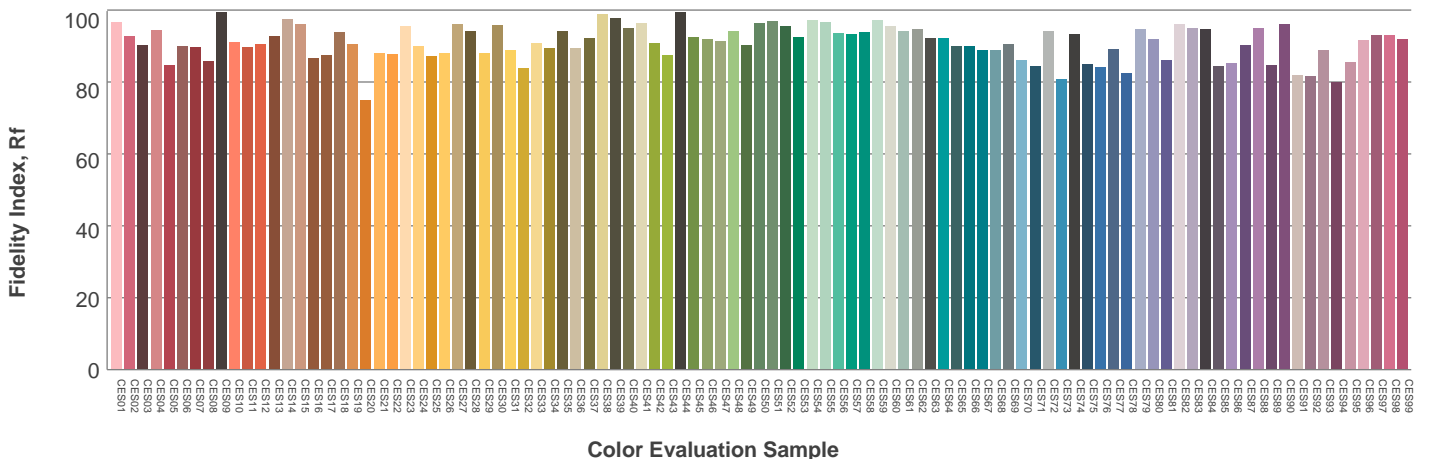
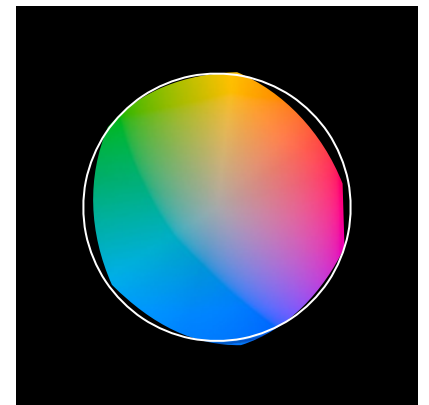
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	2%	5%
5	93	3%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



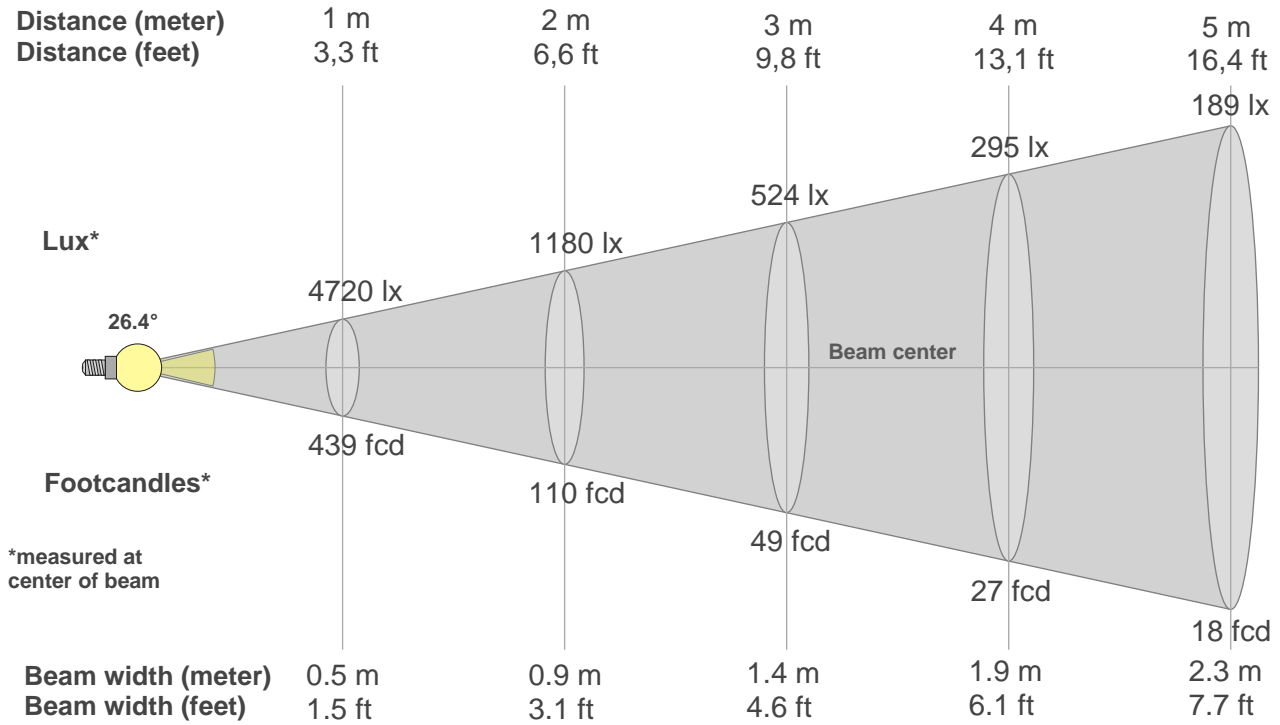
Color vector graphics



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
4720lx	1180lx	524lx	295lx	189lx	131lx	96lx	74lx	58lx	47lx	39lx	33lx	28lx	24lx	21lx	18lx	16lx	15lx	13lx	12lx
438.5fcd	109.6fcd	48.7fcd	27.4fcd	17.5fcd	12.2fcd	8.9fcd	6.9fcd	5.4fcd	4.4fcd	3.6fcd	3fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd

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°
4720	4644	4377	4007	3565	3087	2610	2164	1789	1481	1231	1024	843	669	502	353	231	140	80	44
100%	98%	93%	85%	76%	65%	55%	46%	38%	31%	26%	22%	18%	14%	11%	7%	5%	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°
4720	4637	4401	4036	3596	3128	2665	2229	1837	1524	1268	1055	874	709	554	407	282	186	119	75
100%	98%	93%	85%	76%	66%	56%	47%	39%	32%	27%	22%	19%	15%	12%	9%	6%	4%	3%	2%

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°
4720	4637	4404	4052	3613	3122	2618	2164	1774	1454	1201	1011	856	700	544	397	268	167	100	58
100%	98%	93%	86%	77%	66%	55%	46%	38%	31%	25%	21%	18%	15%	12%	8%	6%	4%	2%	1%

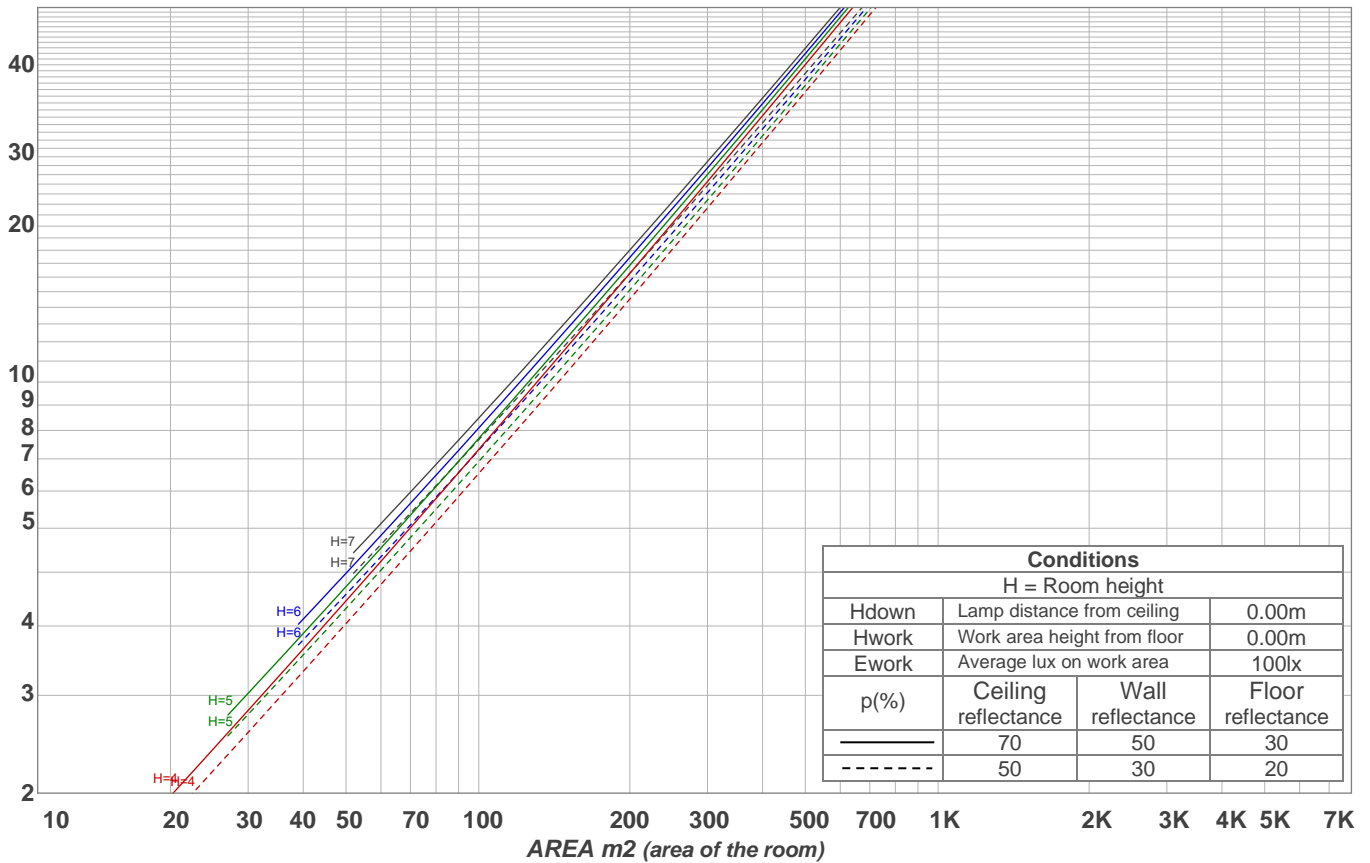
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4720	4641	4423	4084	3641	3160	2674	2223	1830	1504	1233	1017	825	650	492	352	235	156	102	65
100%	98%	94%	87%	77%	67%	57%	47%	39%	32%	26%	22%	17%	14%	10%	7%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26.4°	57.3°	70.7°	99.0%	98.4%

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87	87	87	
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84	84	84	
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80	80	80	
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	84	81	78	77	77	77	
7	92	85	80	77	91	84	80	76	83	79	76	82	78	76	81	78	75	74	74	74	
8	89	81	77	74	88	81	77	73	80	76	73	79	75	73	78	75	73	71	71	71	
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69	69	69	
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	67	67	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
368 lm	553 lm	346 lm	92.2 lm	12.5 lm	5.20 lm	4.35 lm	4.67 lm	4.24 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