

Light efficiency:



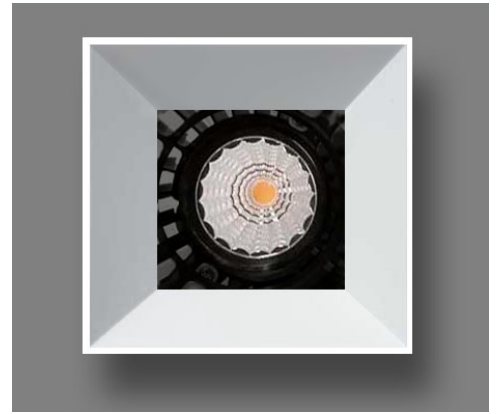
Output: 1411 lm

Light quality:

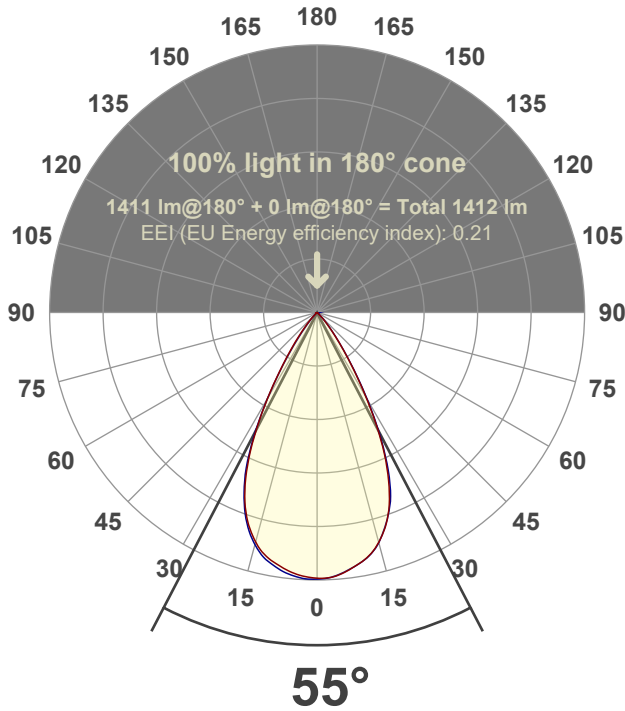


Peak: 1826 cd

Power: 21.3 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Open Square Fixed Downlight-A20-3019 60° Optic-Solite

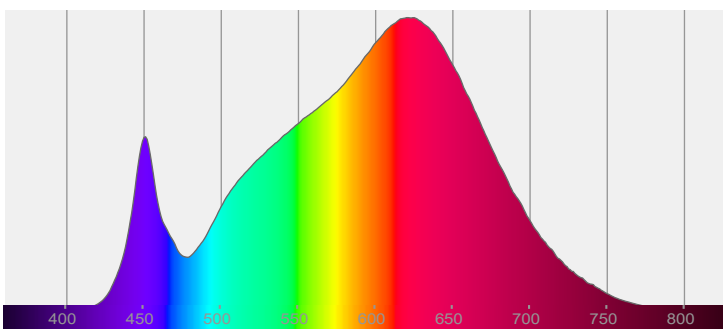
Date and time:

6/21/2022 7:39:04 PM

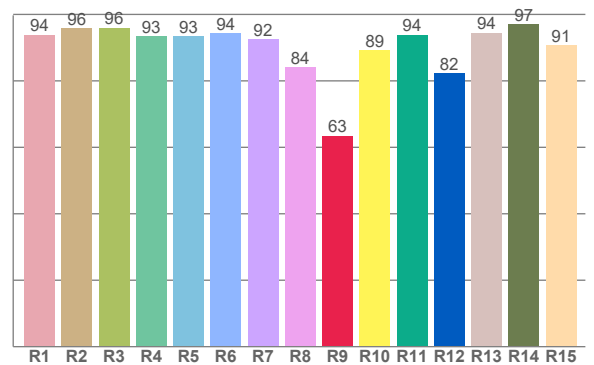
Delivered Lumens

1411

Spectra



CRI: 92.9 (R1-R8)



Color parameters

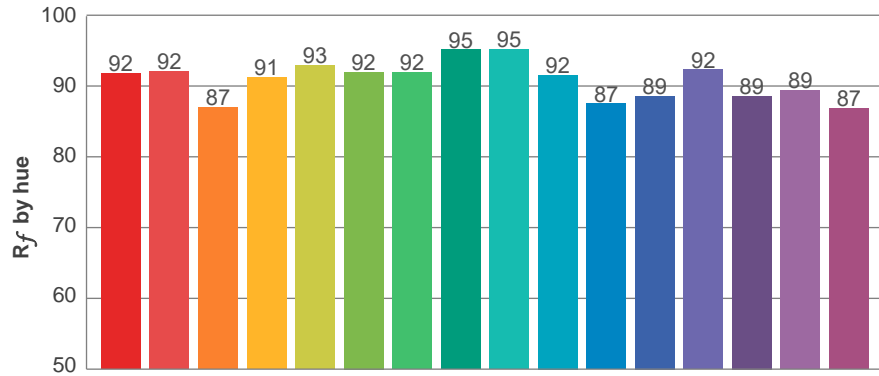
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.5	90.9	101.9	89.8	0.432	0.396	0.251	0.345	-0.0025

R_f 90.9
Fidelity index R_f

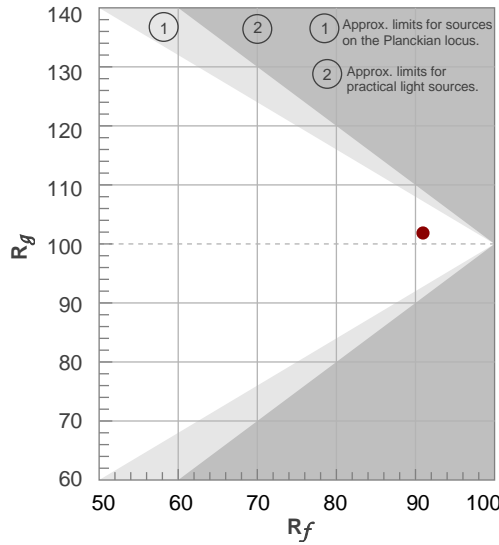
R_g 101.9
Gammut index R_g

TM30: 90.9

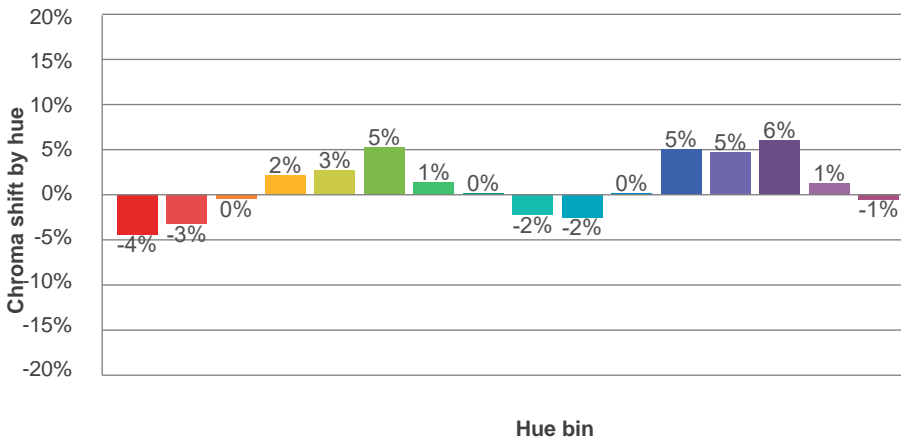
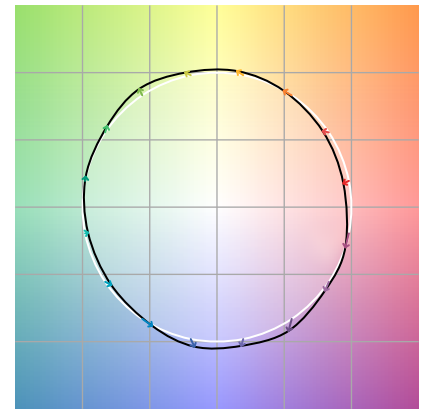
TM-30Color



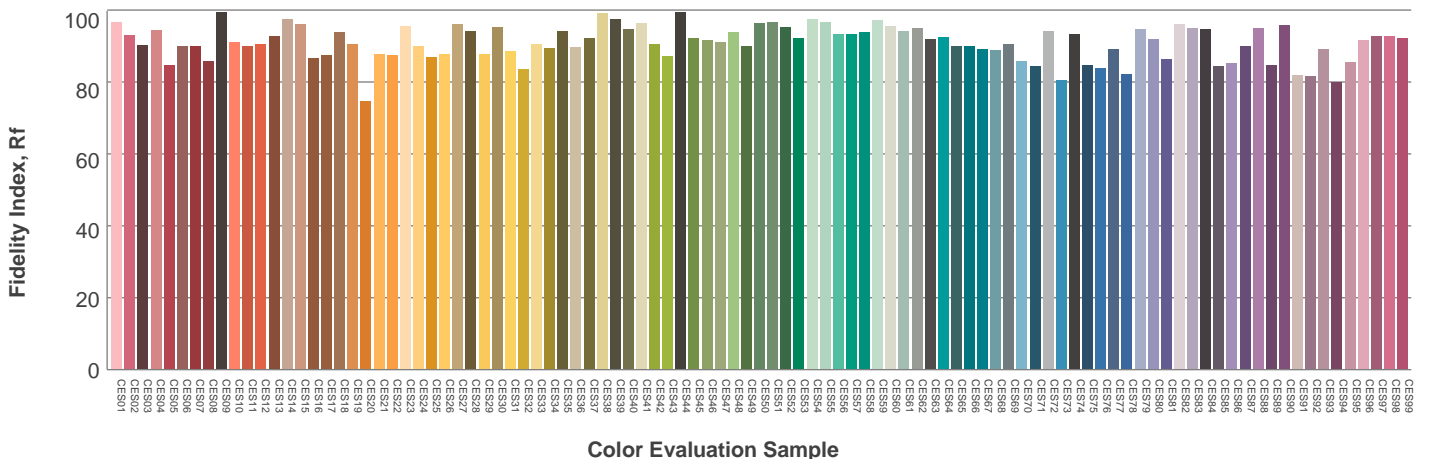
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	0%	7%
4	91	2%	5%
5	93	3%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	4%
11	87	0%	9%
12	89	5%	4%
13	92	5%	-2%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



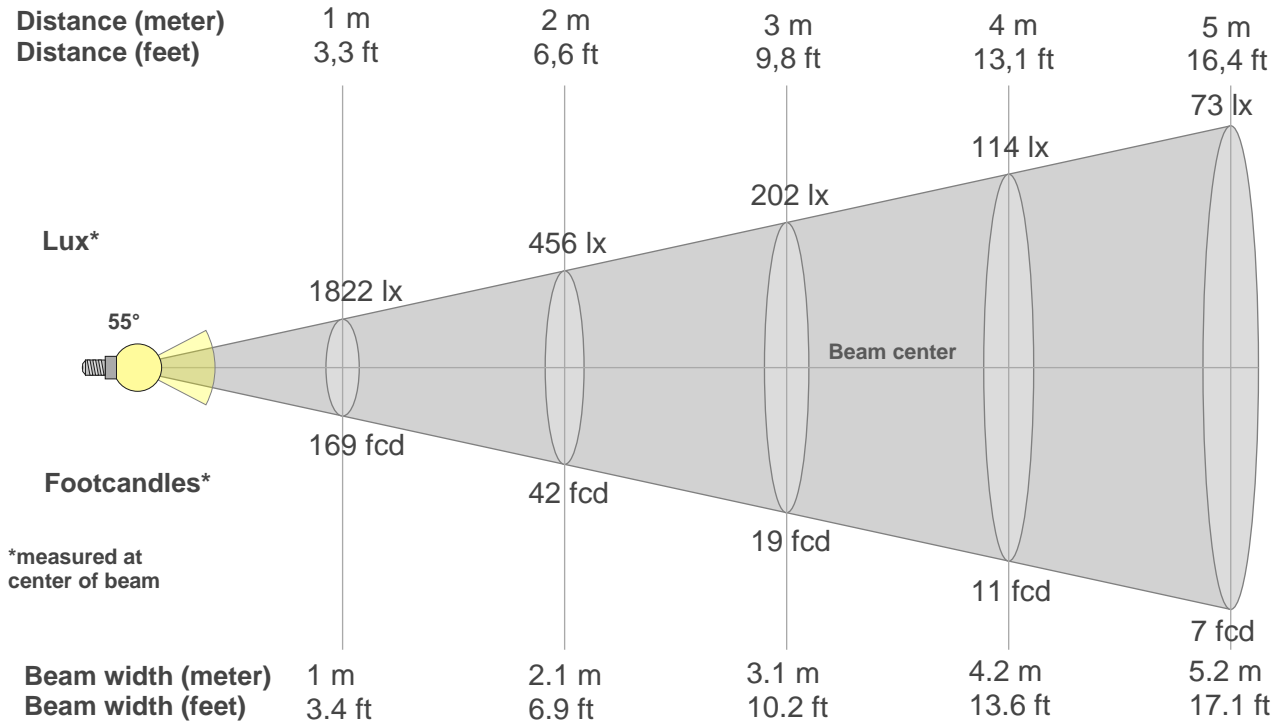
Color vector graphics



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
1822lx	456lx	202lx	114lx	73lx	51lx	37lx	28lx	22lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
169.3fcd	42.3fcd	18.8fcd	10.6fcd	6.8fcd	4.7fcd	3.5fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1822	1819	1810	1791	1764	1737	1703	1658	1599	1529	1436	1321	1185	1033	862	685	527	394	286	203
100%	100%	99%	98%	97%	95%	93%	91%	88%	84%	79%	72%	65%	57%	47%	38%	29%	22%	16%	11%

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°
1822	1821	1807	1787	1763	1737	1706	1660	1597	1524	1442	1347	1209	1047	874	700	536	393	286	205
100%	100%	99%	98%	97%	95%	94%	91%	88%	84%	79%	74%	66%	57%	48%	38%	29%	22%	16%	11%

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°
1822	1813	1802	1784	1760	1733	1700	1656	1596	1523	1433	1321	1189	1035	861	691	532	396	288	205
100%	99%	99%	98%	97%	95%	93%	91%	88%	84%	79%	73%	65%	57%	47%	38%	29%	22%	16%	11%

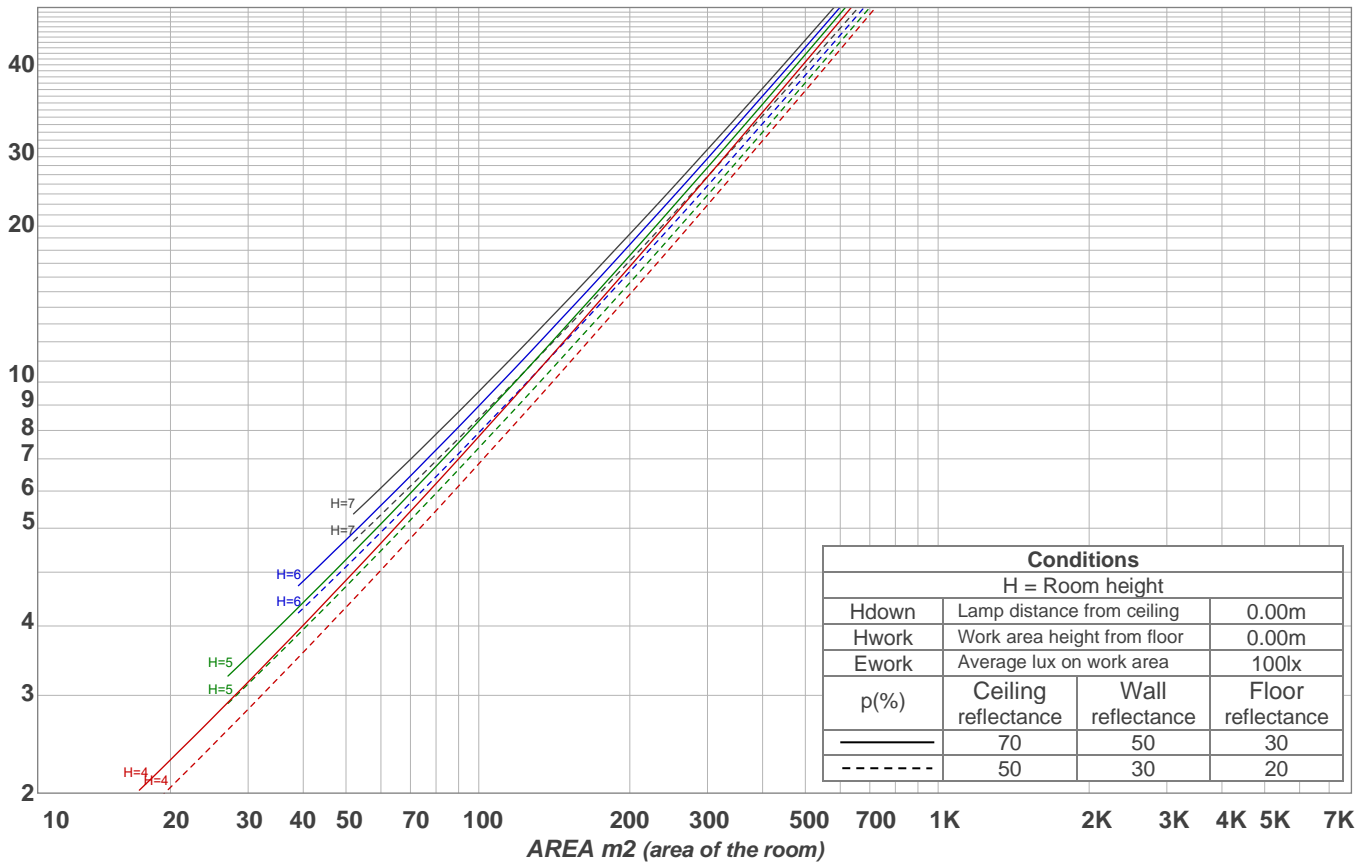
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1822	1826	1818	1803	1783	1755	1722	1674	1613	1539	1449	1339	1209	1050	872	689	514	374	262	177
100%	100%	100%	99%	98%	96%	95%	92%	89%	84%	79%	73%	66%	58%	48%	38%	28%	21%	14%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55°	76.9°	91.7°	99.0%	97.4%

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	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88	88	88	
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82	82	82	
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	
6	90	81	75	71	88	80	75	71	79	74	71	78	73	70	76	73	70	68	68	68	
7	85	77	71	67	84	76	71	67	75	70	66	74	69	66	73	69	66	64	64	64	
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61	
9	78	69	63	60	77	68	63	59	68	63	59	67	62	59	66	62	59	58	58	58	
10	75	65	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55	55	55	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
170 lm	455 lm	499 lm	218 lm	46.4 lm	9.26 lm	5.15 lm	4.94 lm	3.79 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