

Light efficiency:



Output: 1247 lm

Light quality:

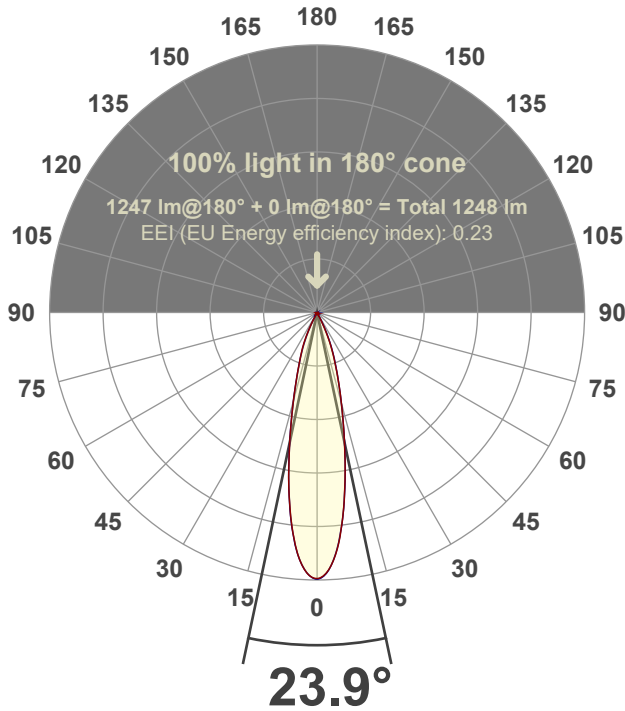


Peak: 5740 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-A20-3019-NF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A20-3019 24° Optic

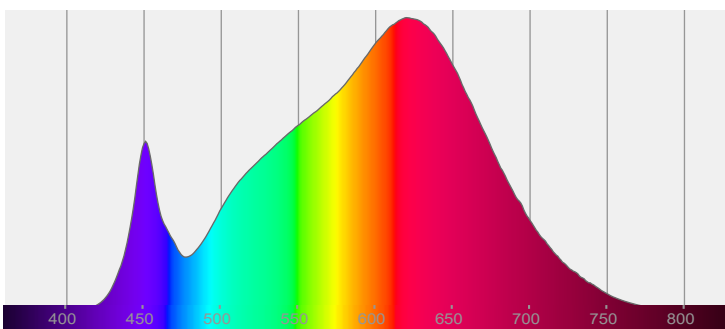
Date and time:

6/21/2022 8:35:37 PM

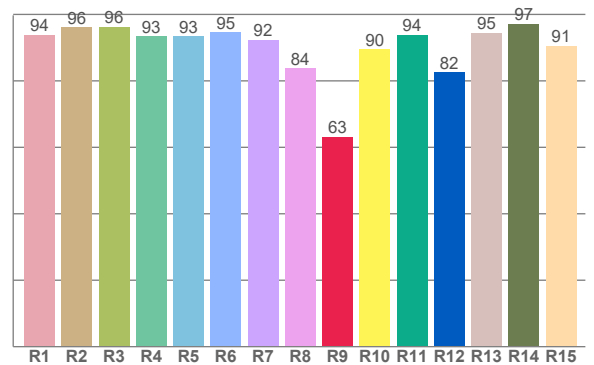
Delivered Lumens

1247

Spectra



CRI: 92.9 (R1-R8)



Color parameters

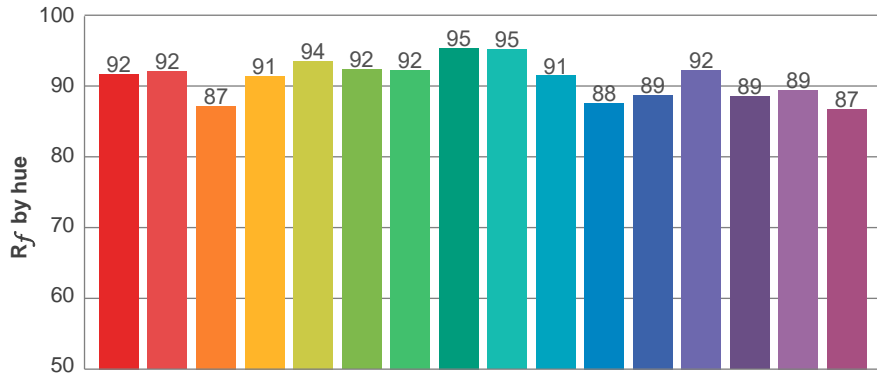
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.2	91.1	101.7	89.9	0.434	0.397	0.252	0.345	-0.0025

R_f 91.1
Fidelity index R_f

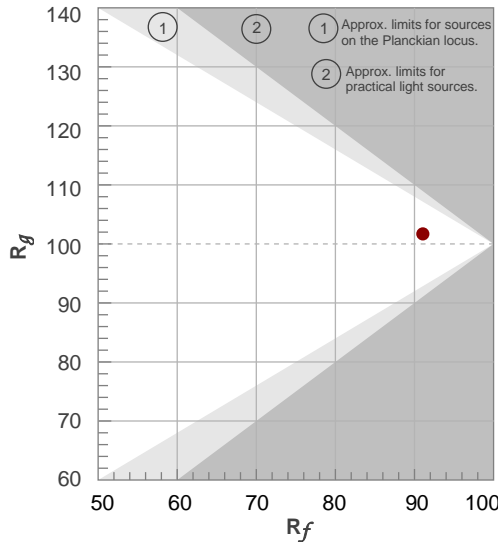
R_g 101.7
Gammut index R_g

TM30: 91.1

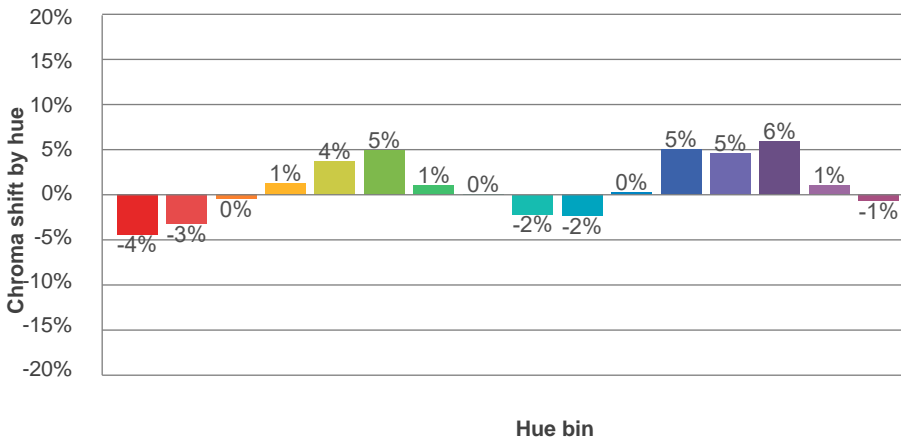
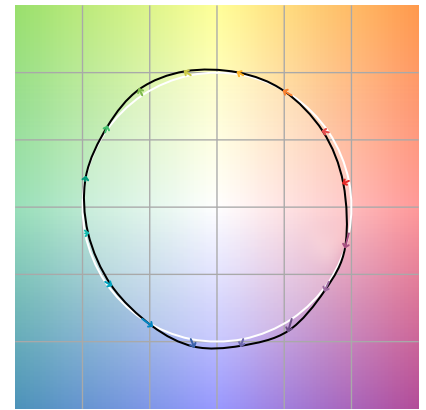
TM-30Color



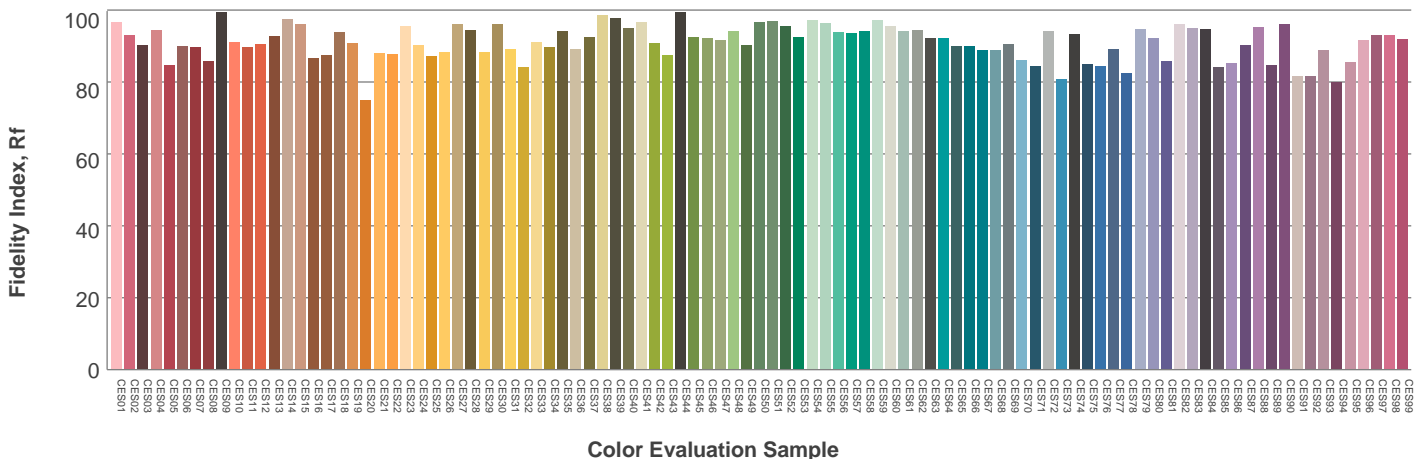
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	0%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-4%
8	95	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



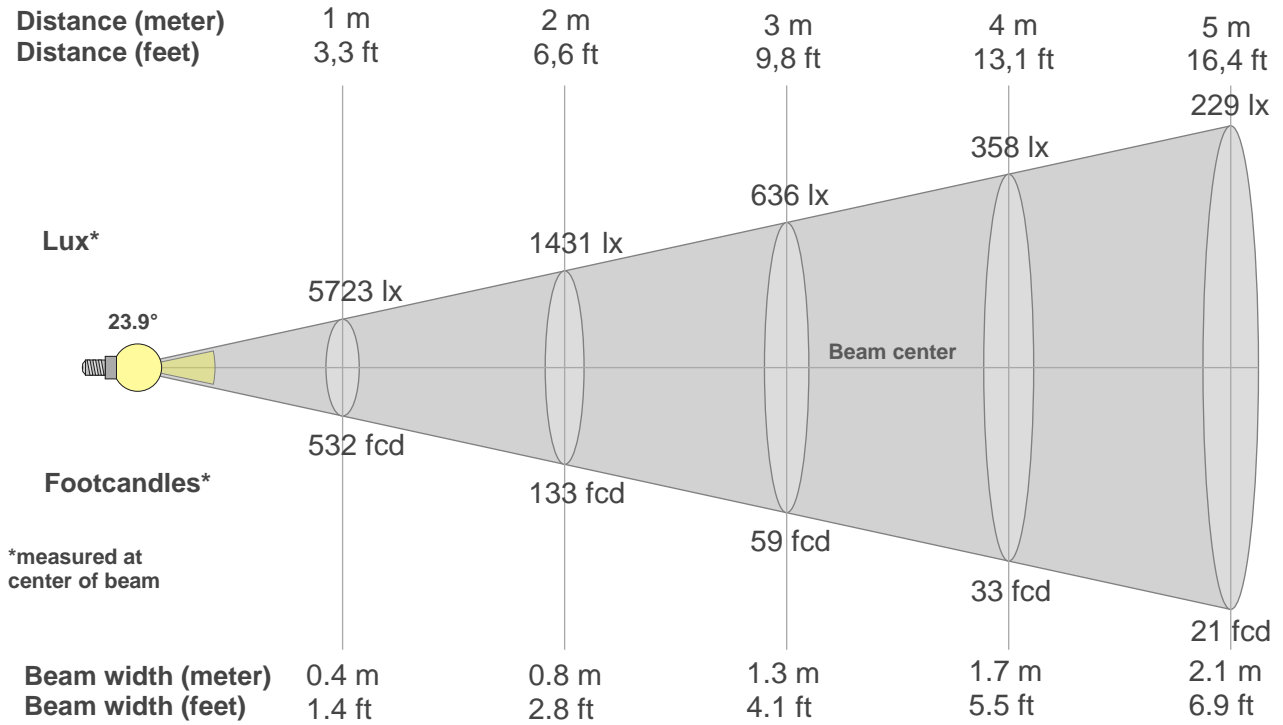
Color vector graphics



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
5723lx	1431lx	636lx	358lx	229lx	159lx	117lx	89lx	71lx	57lx	47lx	40lx	34lx	29lx	25lx	22lx	20lx	18lx	16lx	14lx
531.7fcd	132.9fcd	59.1fcd	33.2fcd	21.3fcd	14.8fcd	10.9fcd	8.3fcd	6.6fcd	5.3fcd	4.4fcd	3.7fcd	3.1fcd	2.7fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.5fcd	1.3fcd

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°
5723	5583	5272	4787	4164	3485	2848	2295	1825	1432	1107	846	592	348	154	44	22	18	15	13
100%	98%	92%	84%	73%	61%	50%	40%	32%	25%	19%	15%	10%	6%	3%	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°
5723	5604	5269	4772	4162	3497	2843	2279	1819	1443	1134	873	626	391	195	72	21	16	14	11
100%	98%	92%	83%	73%	61%	50%	40%	32%	25%	20%	15%	11%	7%	3%	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°
5723	5637	5325	4830	4217	3537	2848	2249	1768	1391	1103	874	665	427	212	78	23	16	14	13
100%	98%	93%	84%	74%	62%	50%	39%	31%	24%	19%	15%	12%	7%	4%	1%	0%	0%	0%	0%

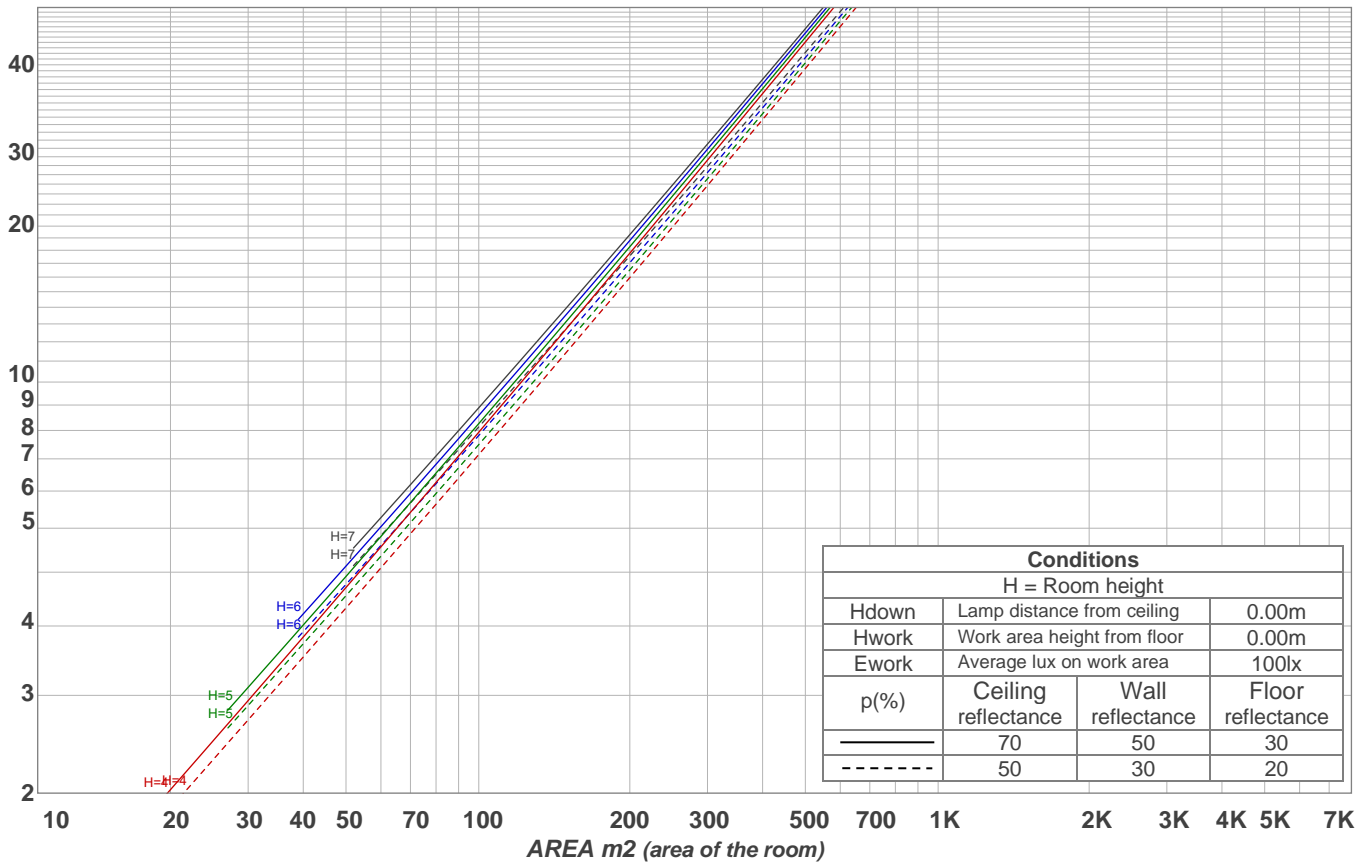
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5723	5614	5312	4838	4226	3535	2842	2252	1769	1383	1081	839	602	379	188	68	22	17	15	13
100%	98%	93%	85%	74%	62%	50%	39%	31%	24%	19%	15%	11%	7%	3%	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
23.9°	48.8°	57°	99.3%	99.0%

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	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	98	96	95	96
2	111	108	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	95	93	91	93
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	91	91	89	87	89
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	88	86	84	86
5	101	95	91	88	100	95	91	88	93	90	87	92	89	87	90	88	86	85	83	81	83
6	98	92	88	85	97	92	88	85	90	87	84	89	86	84	88	85	83	82	80	78	80
7	96	89	85	82	95	89	85	82	88	84	82	87	84	81	86	83	81	80	78	76	78
8	93	87	83	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78	76	74	76
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	82	79	77	76	74	72	74
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	80	77	75	74	72	70	72

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
432 lm	563 lm	226 lm	10.8 lm	3.89 lm	2.53 lm	2.64 lm	2.87 lm	3.25 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