

Light efficiency:

53 Lumen/Watt

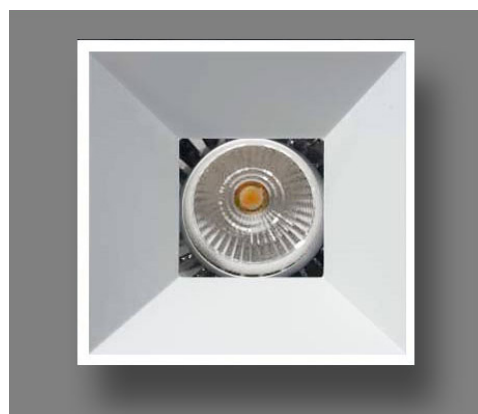
Light quality:

CRI: 96.3

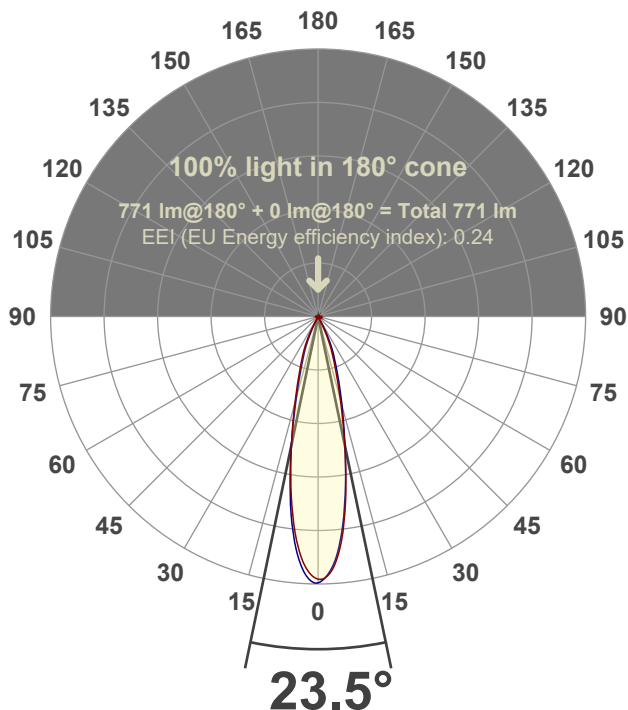
Output: 771 lm

Peak: 3662 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-A14-3019-NF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3019 24° Optic

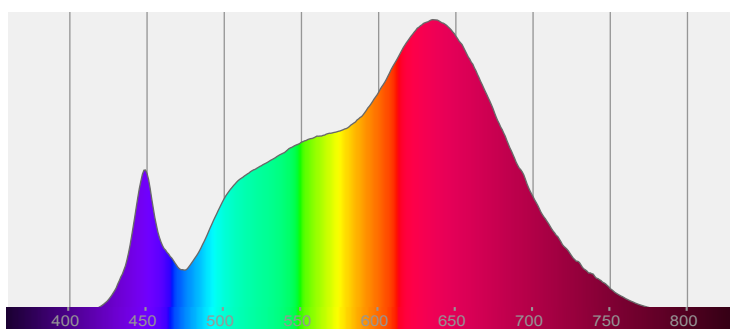
Date and time:

6/30/2022 12:45:38 PM

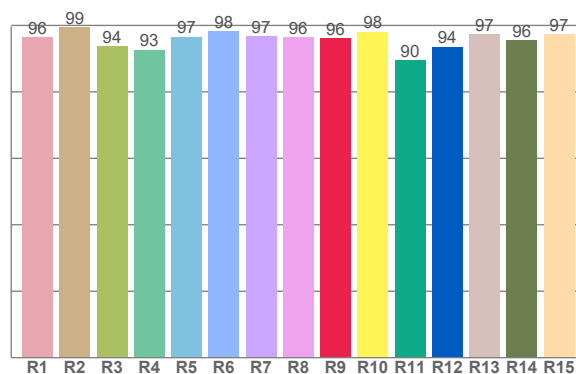
Delivered Lumens

771

Spectra



CRI: 96.3 (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
	96.3	96.2	95.3	104.2	94.9	0.436	0.402	0.251	0.347	-0.0006

R_f 95.3

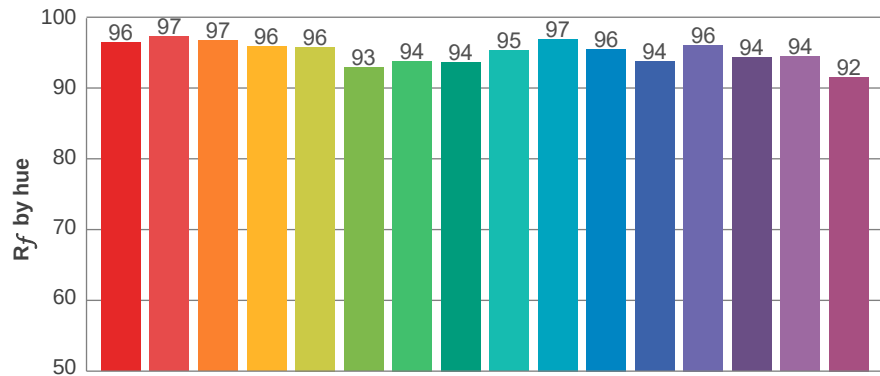
Fidelity index R_f

R_g 104.2

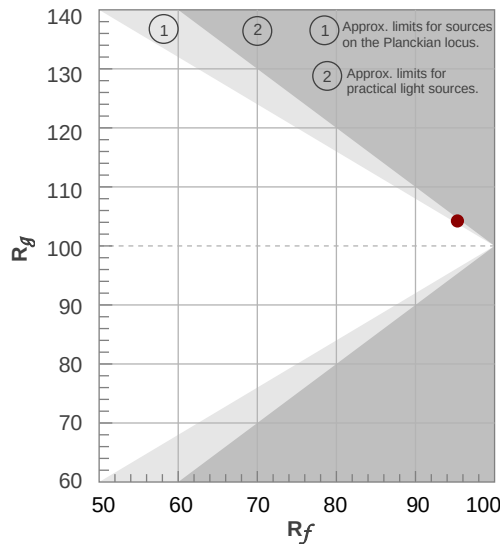
Gammut index R_g

TM30: 95.3

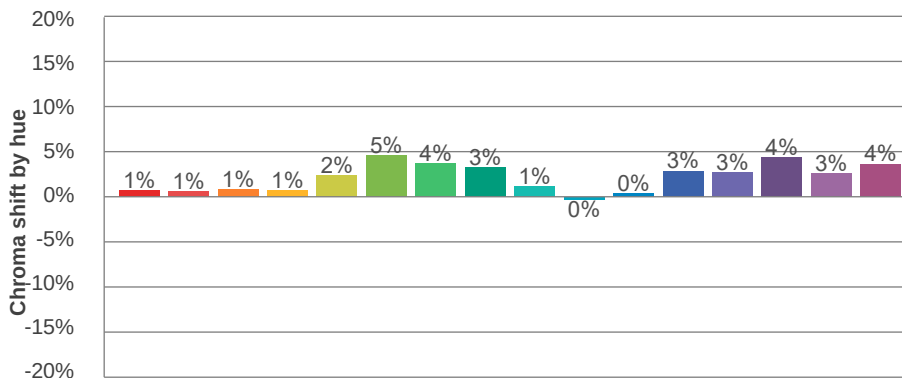
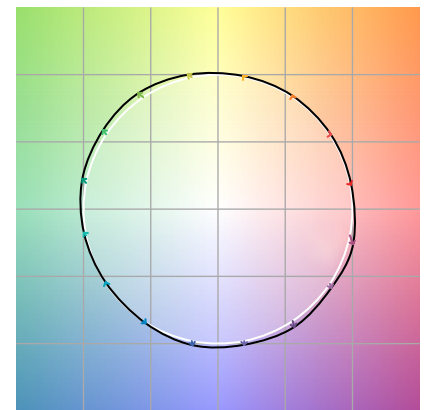
TM-30Color



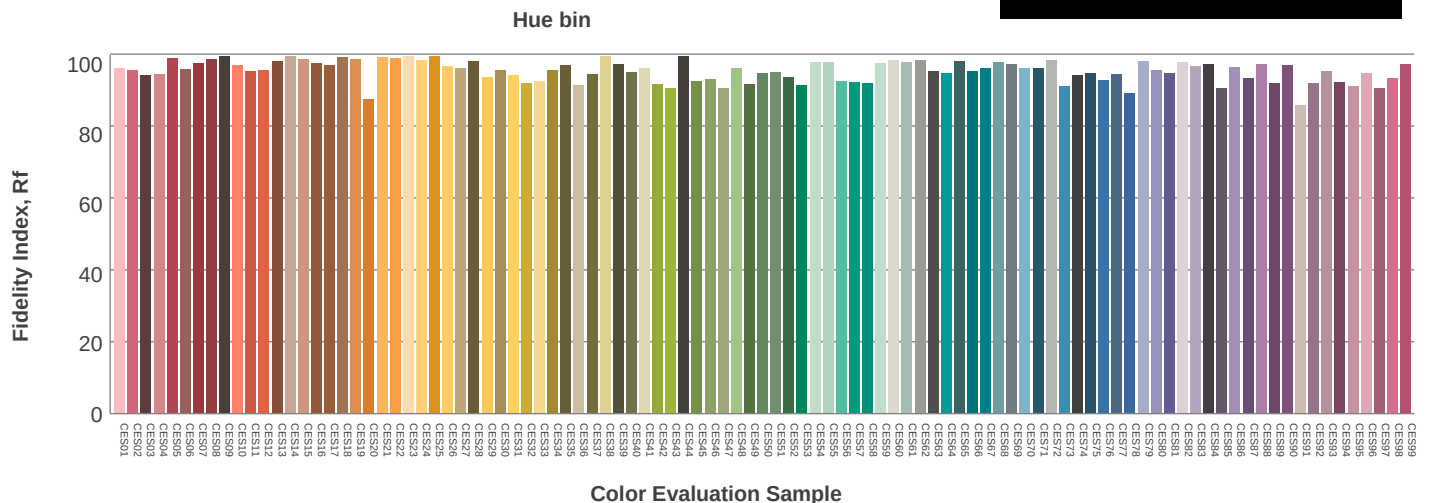
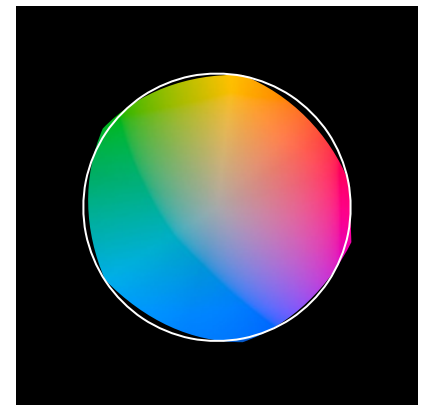
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	96	2%	3%
6	93	5%	1%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	94	3%	-2%
16	92	4%	-6%



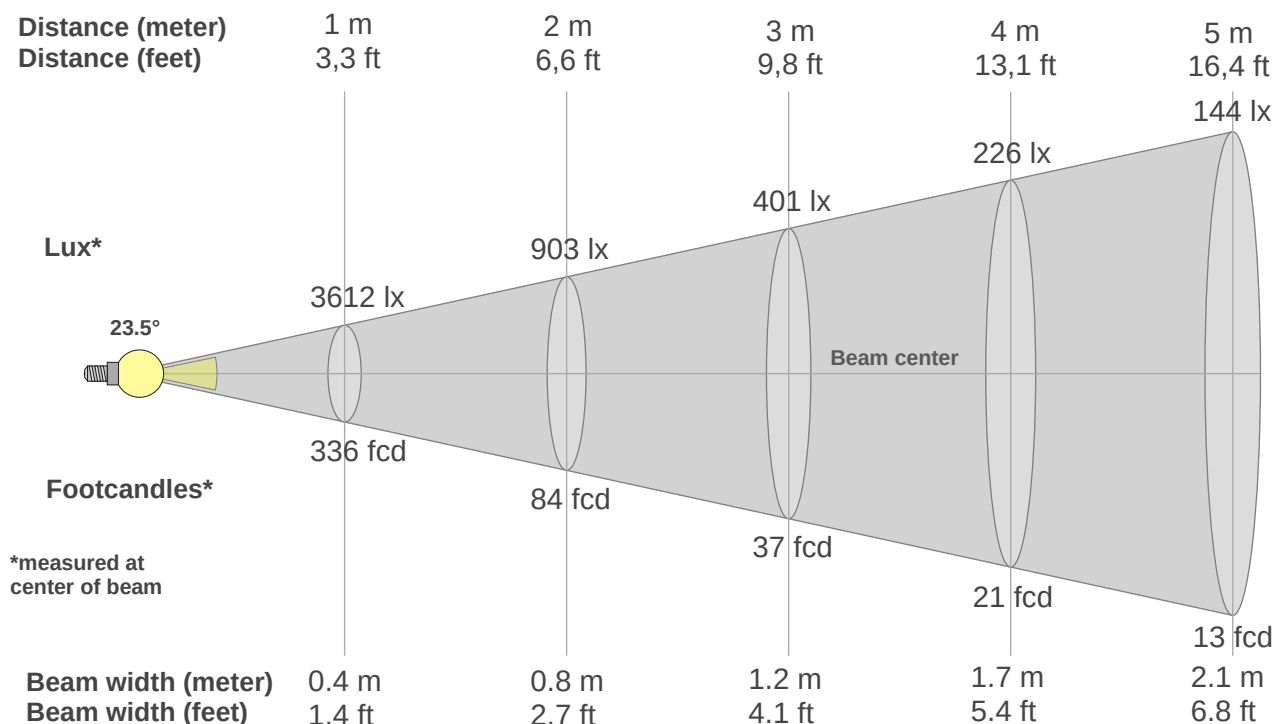
Color vector graphics



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
3612lx	903lx	401lx	226lx	144lx	100lx	74lx	56lx	45lx	36lx	30lx	25lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx
335.6fcd	83.9fcd	37.3fcd	21fcd	13.4fcd	9.3fcd	6.8fcd	5.2fcd	4.1fcd	3.4fcd	2.8fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	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°
3612	3548	3385	3090	2667	2207	1763	1369	1044	801	623	475	331	187	64	23	12	10	9	8
100%	98%	94%	86%	74%	61%	49%	38%	29%	22%	17%	13%	9%	5%	2%	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°
3612	3555	3346	3017	2615	2186	1775	1425	1147	914	727	579	452	304	176	73	19	9	7	5
100%	98%	93%	84%	72%	60%	49%	39%	32%	25%	20%	16%	13%	8%	5%	2%	1%	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°
3612	3501	3308	3000	2599	2173	1766	1404	1099	868	697	560	434	302	163	56	20	10	9	8
100%	97%	92%	83%	72%	60%	49%	39%	30%	24%	19%	15%	12%	8%	5%	2%	1%	0%	0%	0%

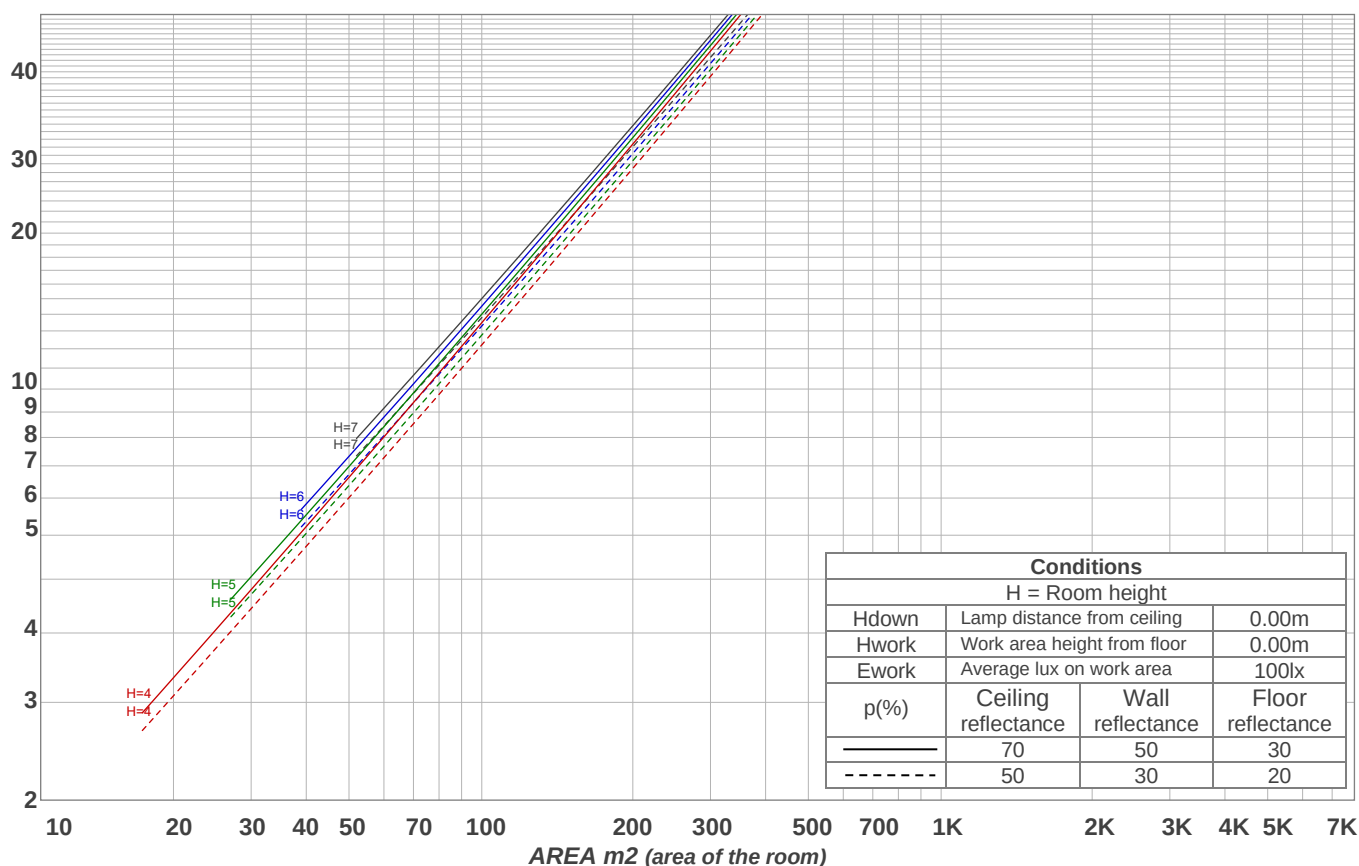
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3612	3585	3397	3093	2693	2219	1757	1352	1025	776	596	463	315	178	74	18	11	9	8	7
100%	99%	94%	86%	75%	61%	49%	37%	28%	21%	17%	13%	9%	5%	2%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.5°	48.6°	57°	99.3%	98.9%

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	0
Floor reflectance	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
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	93	90	89	88
5	101	96	92	89	100	95	91	88	93	90	87	92	89	87	90	88	86	85
6	99	92	88	85	97	92	88	85	90	87	85	89	86	84	88	86	84	82
7	96	90	85	83	95	89	85	82	88	84	82	87	84	82	86	83	81	80
8	93	87	83	80	92	86	83	80	85	82	80	85	81	79	84	81	79	78
9	91	84	80	78	90	84	80	78	83	80	77	82	79	77	82	79	77	76
10	89	82	78	76	88	82	78	75	81	78	75	80	77	75	80	77	75	74

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
274 lm	342 lm	139 lm	6.64 lm	2.24 lm	1.84 lm	1.78 lm	1.52 lm	2.04 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