

Light efficiency:



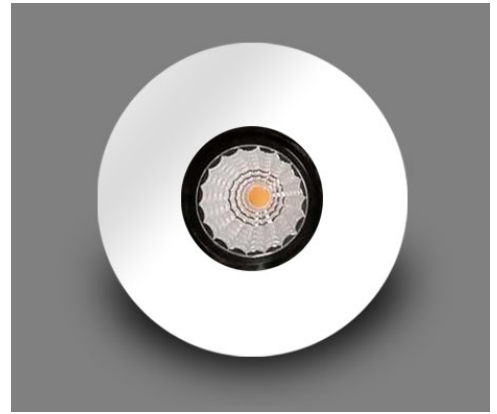
Output: 729 lm

Light quality:

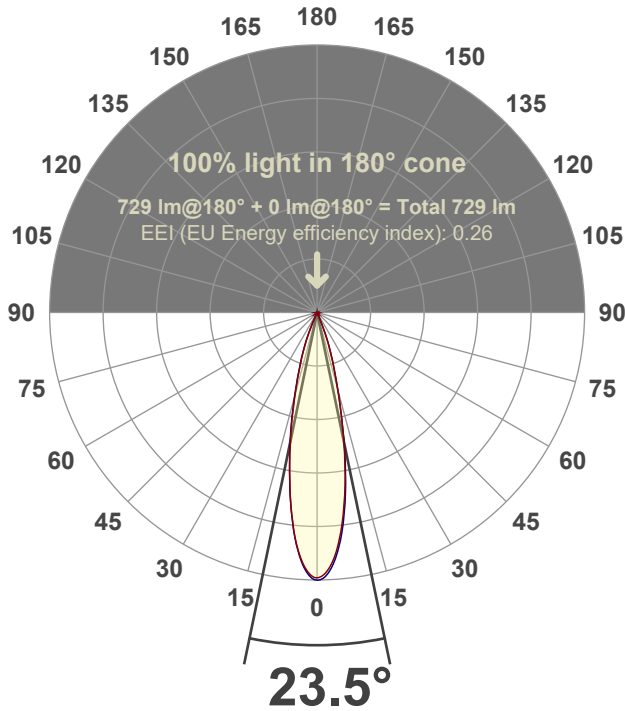


Peak: 3992 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-F-A14-2722-NF-RD-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A14-2722 24° Optic

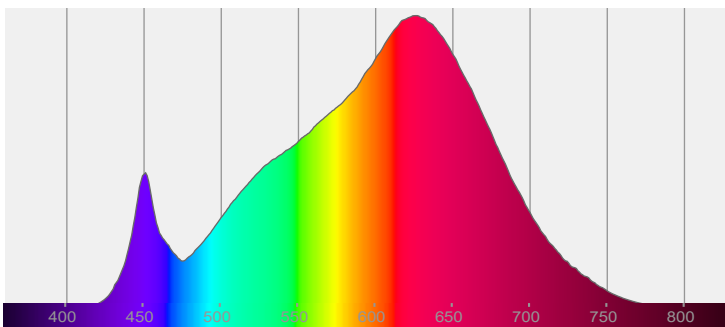
Date and time:

3/24/2022 7:23:01 PM

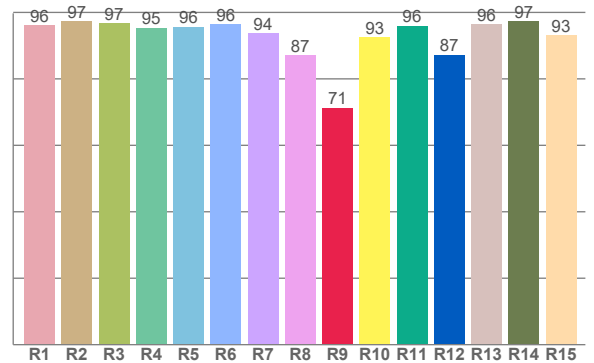
Delivered Lumens

729

Spectra



CRI: 94.8 (R1-R8)



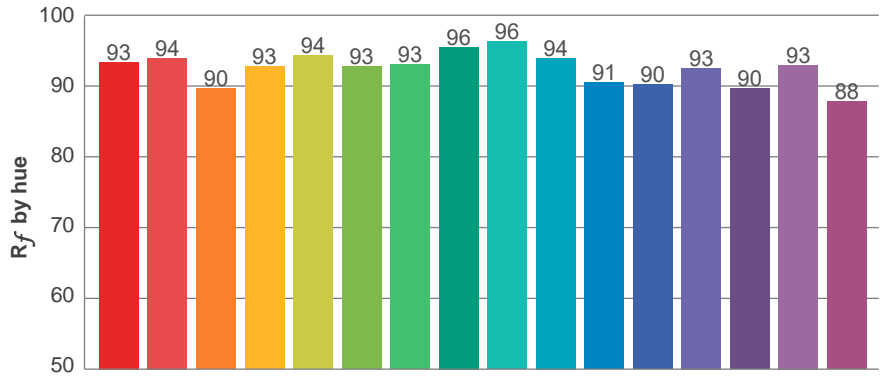
Color parameters

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
94.8	71.3	92.5	102.1	91.4	0.447	0.402	0.258	0.348	-0.0021

R_f 92.5
Fidelity index R_f

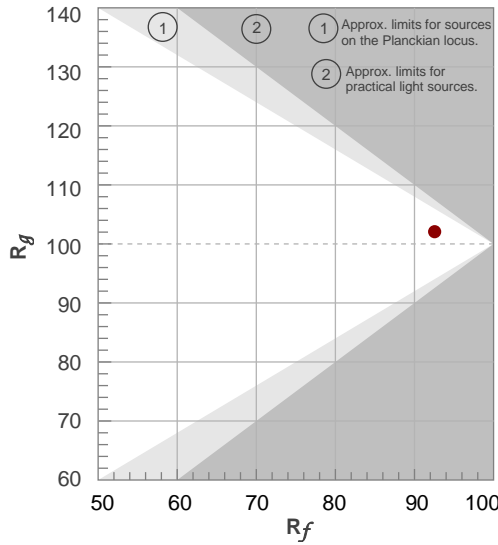
R_g 102.1
Gammut index R_g

TM30: 92.5

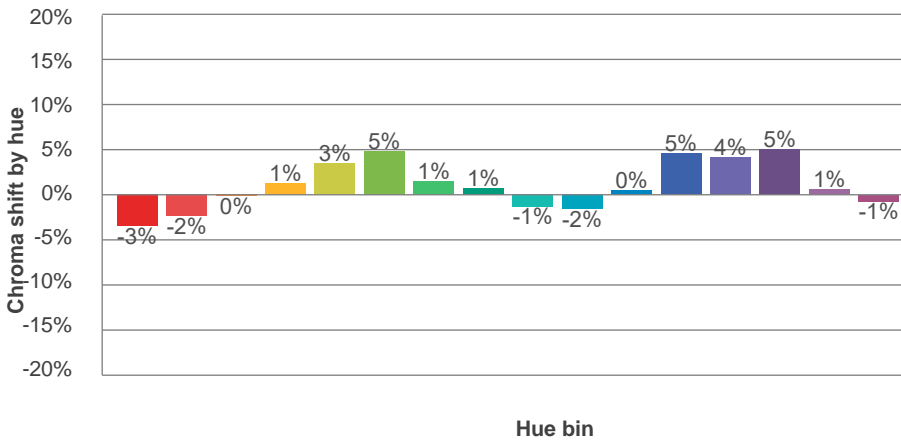
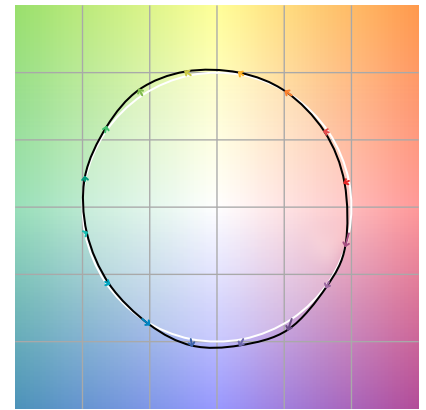


TM-30Color

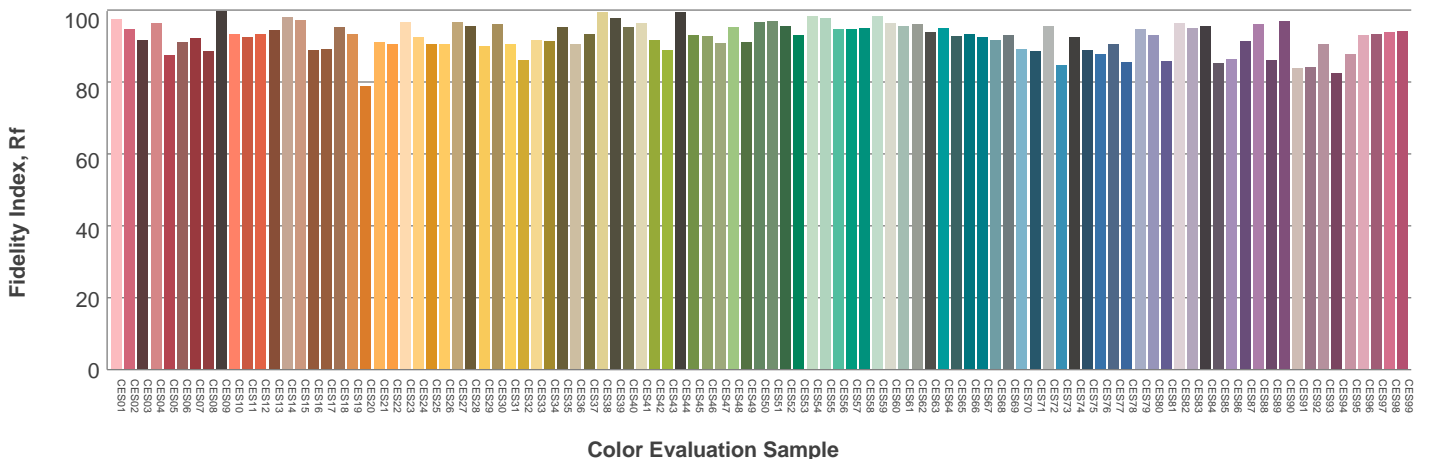
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-2%	2%
3	90	0%	5%
4	93	1%	3%
5	94	3%	3%
6	93	5%	0%
7	93	1%	-4%
8	96	1%	-3%
9	96	-1%	0%
10	94	-2%	3%
11	91	0%	7%
12	90	5%	2%
13	93	4%	-3%
14	90	5%	-7%
15	93	1%	-4%
16	88	-1%	-10%



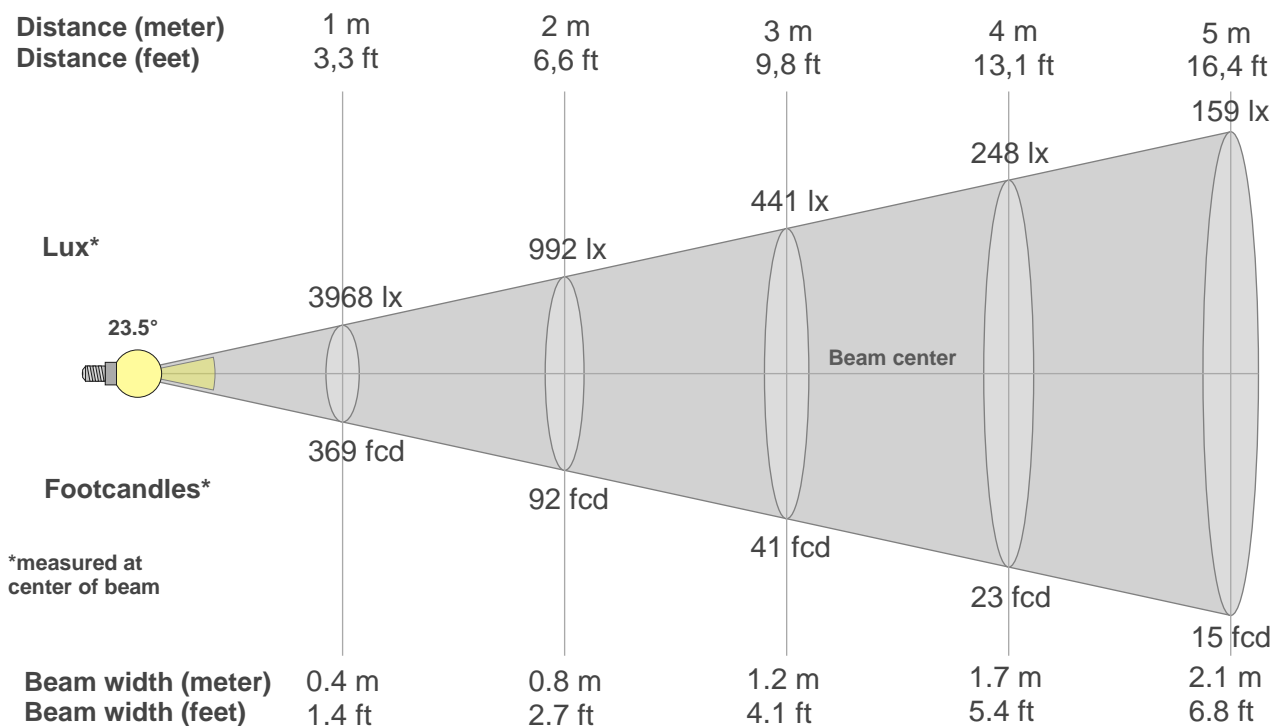
Color vector graphics



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
3968lx	992lx	441lx	248lx	159lx	110lx	81lx	62lx	49lx	40lx	33lx	28lx	23lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
368.7fcd	92.2fcd	41fcd	23fcd	14.7fcd	10.2fcd	7.5fcd	5.8fcd	4.6fcd	3.7fcd	3fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd

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°
3968	3888	3668	3324	2898	2419	1916	1432	1048	745	493	273	87	23	12	9	8	7	6	5
100%	98%	92%	84%	73%	61%	48%	36%	26%	19%	12%	7%	2%	1%	0%	0%	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°
3968	3927	3730	3389	2956	2459	1933	1421	1013	725	486	268	88	14	11	10	9	9	7	5
100%	99%	94%	85%	74%	62%	49%	36%	26%	18%	12%	7%	2%	0%	0%	0%	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°
3968	3864	3639	3296	2858	2375	1921	1497	1124	822	589	372	173	53	12	9	8	7	7	5
100%	97%	92%	83%	72%	60%	48%	38%	28%	21%	15%	9%	4%	1%	0%	0%	0%	0%	0%	0%

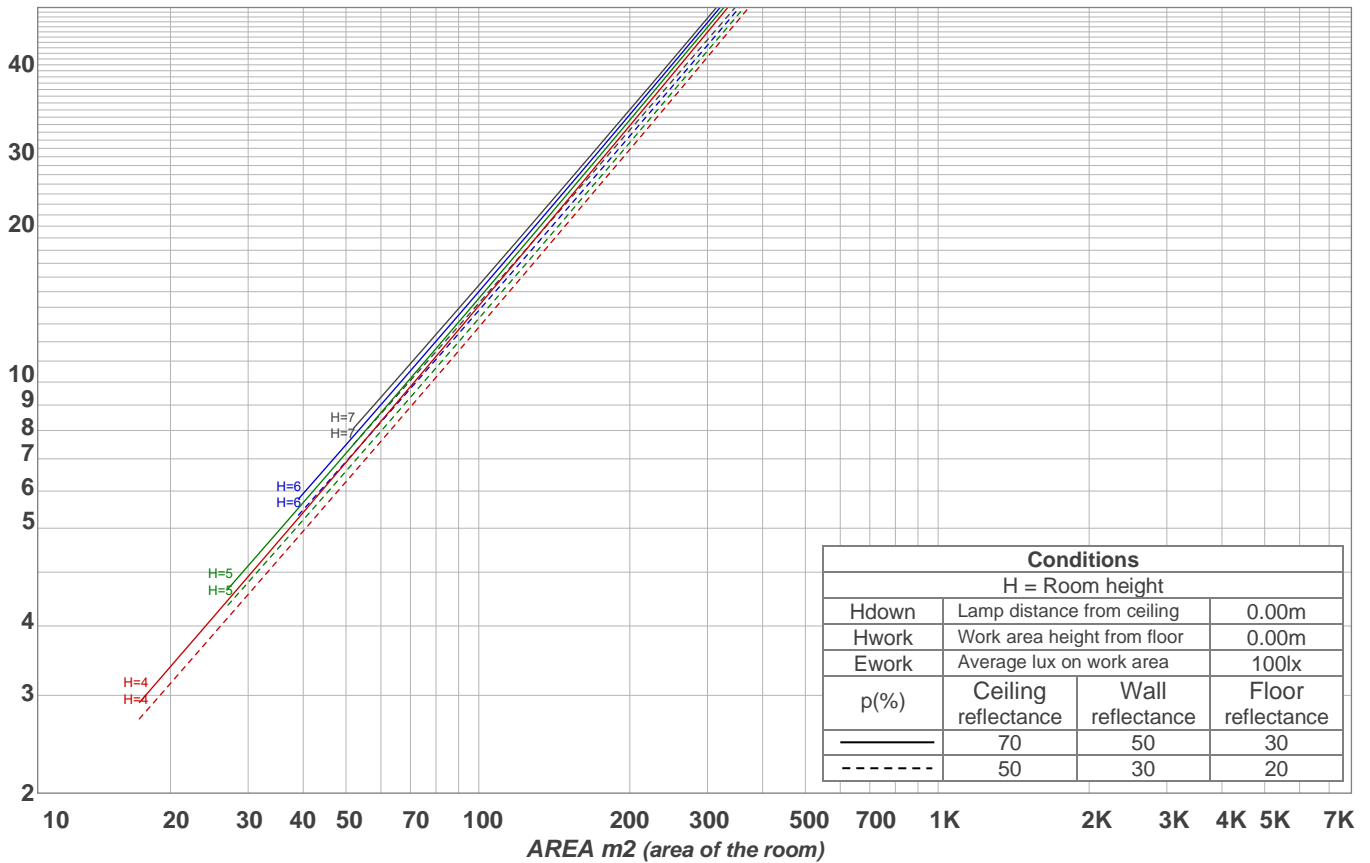
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3968	3892	3660	3308	2858	2387	1944	1526	1147	833	604	385	182	49	12	9	9	8	7	5
100%	98%	92%	83%	72%	60%	49%	38%	29%	21%	15%	10%	5%	1%	0%	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°	42.6°	48.5°	98.8%	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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	97	
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	95	94	94	
3	108	104	100	98	107	103	100	97	100	98	96	98	96	94	96	94	93	93	92	92	
4	105	100	97	94	104	99	96	93	97	94	92	96	93	91	94	92	90	90	89	89	
5	103	97	93	91	101	96	93	90	95	92	89	93	91	89	92	90	88	88	87	87	
6	100	94	90	88	99	94	90	87	92	89	87	91	88	86	90	88	86	86	85	85	
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	84	83	83	
8	95	89	86	83	95	89	85	83	88	85	83	87	84	82	86	84	82	82	81	81	
9	93	87	84	81	92	87	83	81	86	83	81	85	83	80	85	82	80	80	79	79	
10	91	85	82	79	91	85	81	79	84	81	79	84	81	79	83	80	79	79	78	78	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
300 lm	351 lm	61.3 lm	4.26 lm	2.05 lm	2.28 lm	2.45 lm	2.68 lm	3.23 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