

Light efficiency:



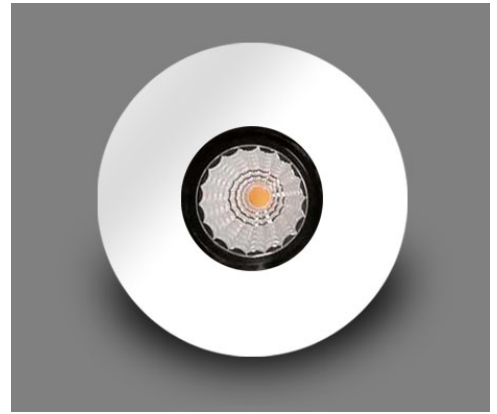
Output: 1093 lm

Light quality:

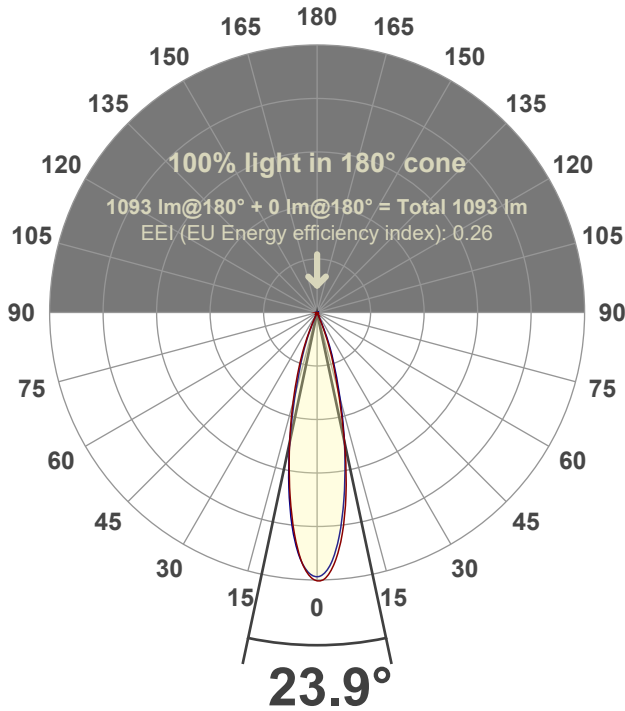


Peak: 5902 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-NF-RD-Rev2

Luminaire Model:

Graffiti Flat Round Fixed Downlight-A20-3019 24° Optic

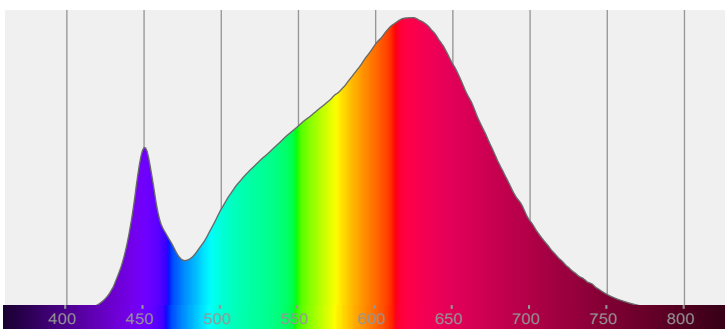
Date and time:

4/28/2022 7:42:25 PM

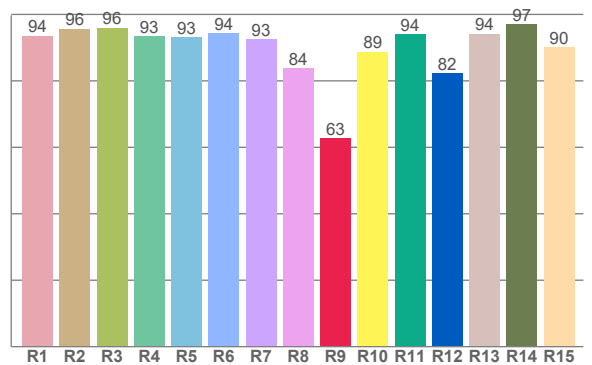
Delivered Lumens

1093

Spectra



CRI: 92.8 (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
	92.8	62.7	91.1	101.6	89.9	0.437	0.399	0.252	0.346	-0.0018

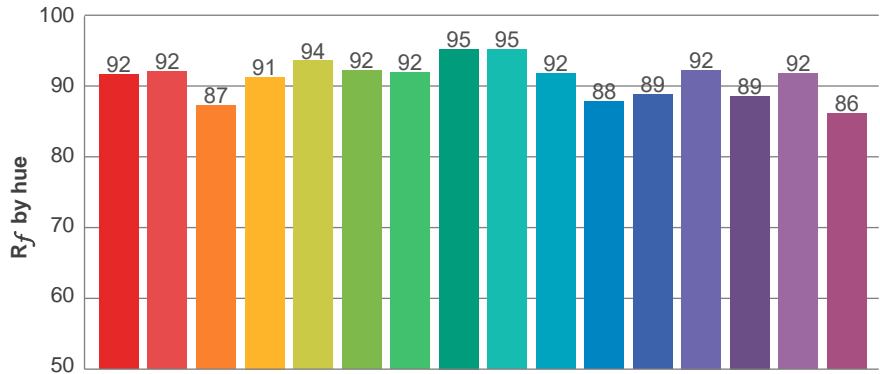
R_f 91.1

Fidelity index R_f

R_g 101.6

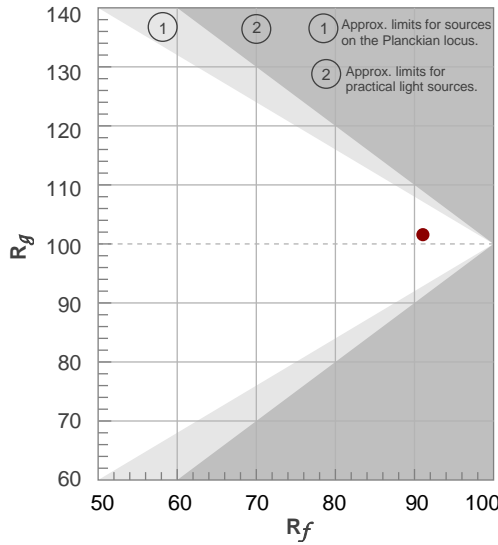
Gammut index R_g

TM30: 91.1

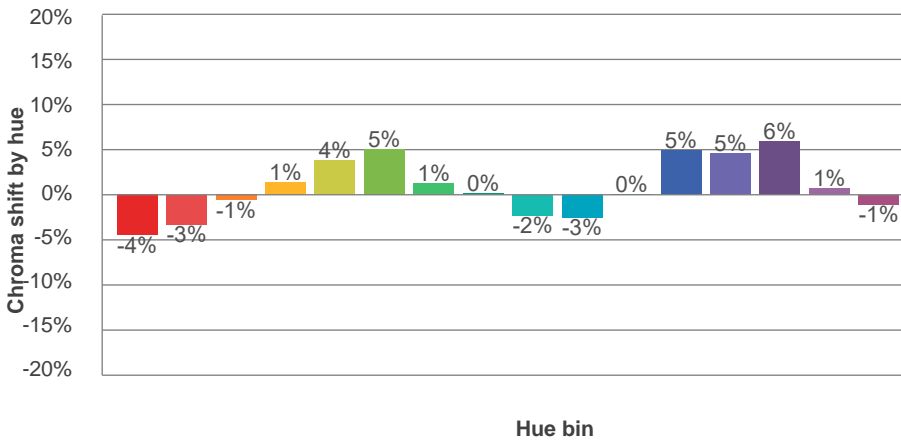
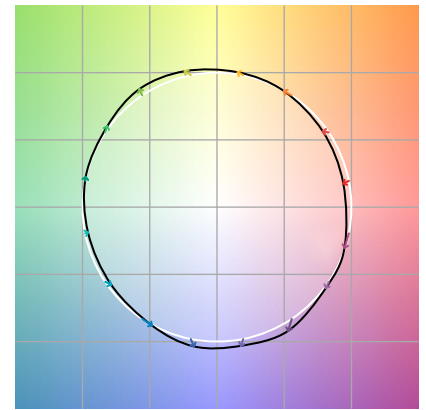


TM-30Color

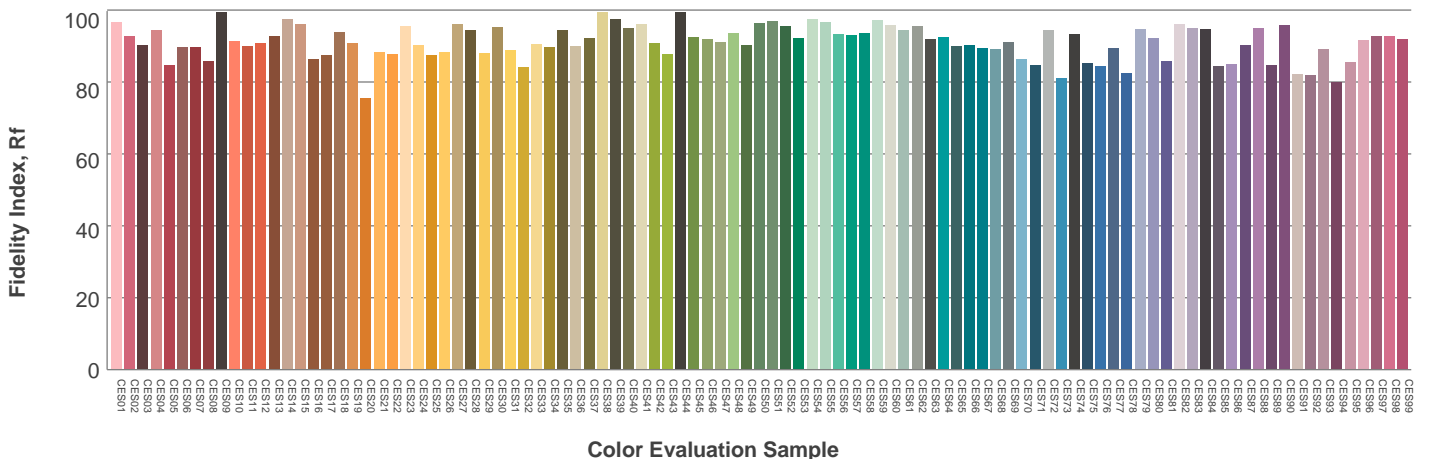
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	5%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



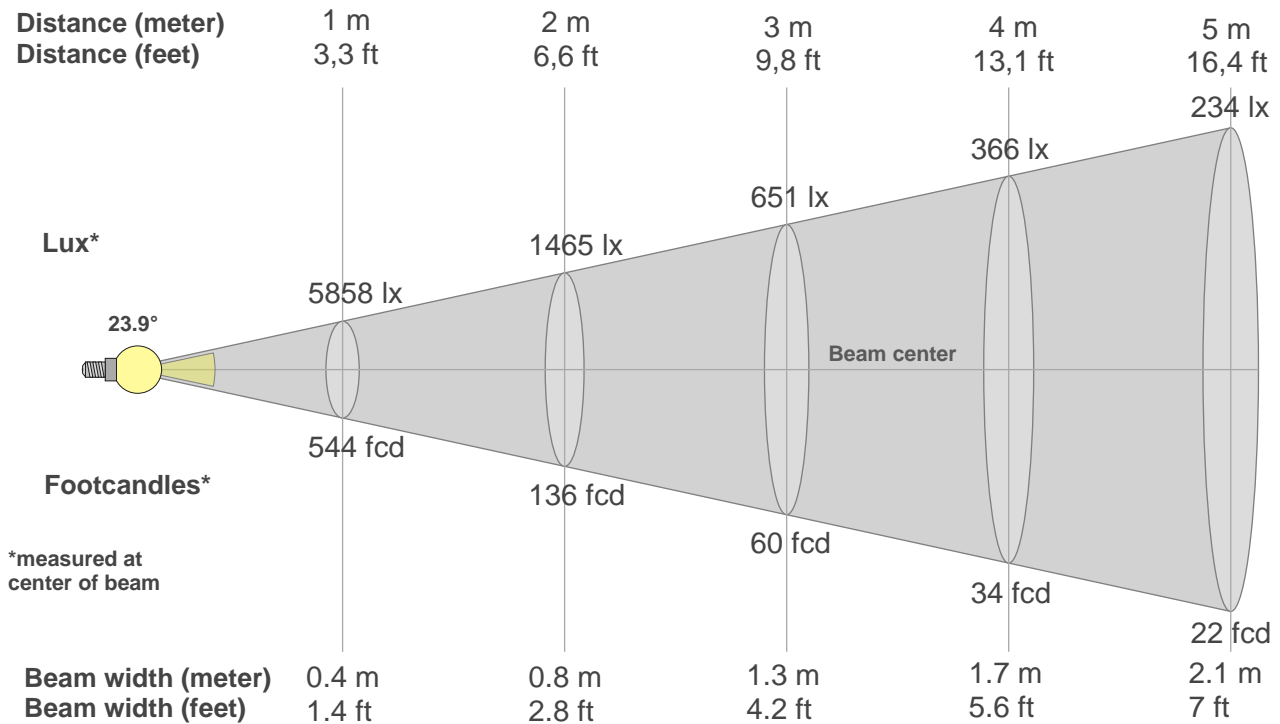
Color vector graphics



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
5858lx	1465lx	651lx	366lx	234lx	163lx	120lx	92lx	72lx	59lx	48lx	41lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
544.2fcd	136.1fcd	60.5fcd	34fcd	21.8fcd	15.1fcd	11.1fcd	8.5fcd	6.7fcd	5.4fcd	4.5fcd	3.8fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

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°
5858	5840	5554	5056	4429	3708	2934	2150	1551	1106	722	383	125	34	15	12	11	9	8	6
100%	100%	95%	86%	76%	63%	50%	37%	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°
5858	5692	5369	4868	4237	3566	2914	2289	1710	1232	886	545	247	50	15	13	11	9	8	6
100%	97%	92%	83%	72%	61%	50%	39%	29%	21%	15%	9%	4%	1%	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°
5858	5752	5406	4880	4232	3570	2937	2351	1819	1358	971	610	299	80	19	11	9	7	6	4
100%	98%	92%	83%	72%	61%	50%	40%	31%	23%	17%	10%	5%	1%	0%	0%	0%	0%	0%	0%

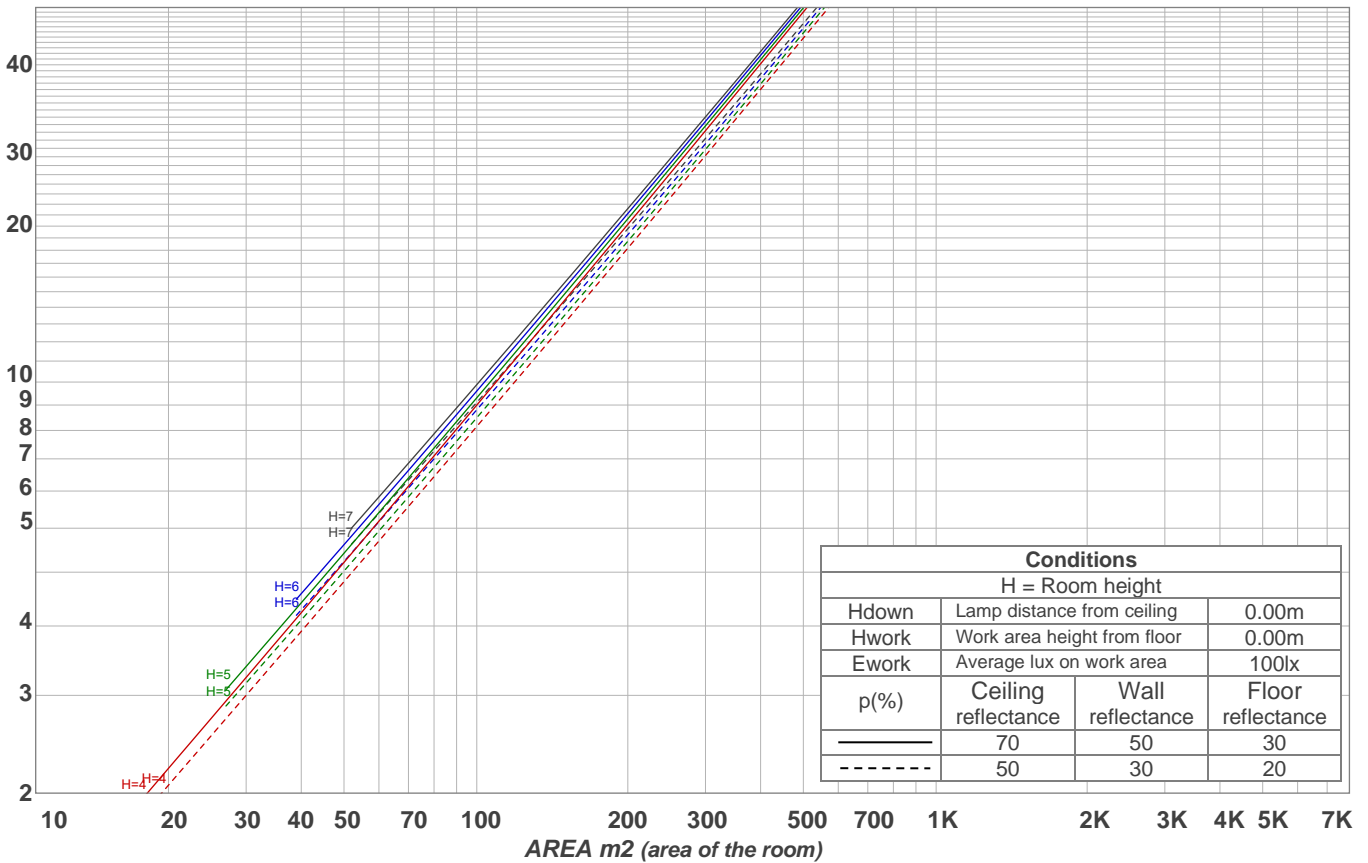
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5858	5736	5437	4940	4323	3633	2914	2197	1608	1157	786	450	135	42	16	13	11	9	7	5
100%	98%	93%	84%	74%	62%	50%	38%	27%	20%	13%	8%	2%	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
23.9°	42.9°	48.8°	99.2%	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		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97		
2	112	108	105	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94	94		
3	109	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92	92		
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	89	89		
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	88	87	87		
6	100	95	91	88	99	94	90	88	93	90	87	92	89	87	90	88	86	85	85		
7	98	92	88	86	97	92	88	85	90	87	85	89	87	85	89	86	84	83	83		
8	96	90	86	83	95	89	86	83	88	85	83	88	85	83	87	84	82	81	81		
9	94	88	84	81	93	87	84	81	86	83	81	86	83	81	85	82	81	80	80		
10	92	86	82	80	91	85	82	79	85	81	79	84	81	79	83	81	79	78	78		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
446 lm	537 lm	93.7 lm	4.78 lm	1.79 lm	1.50 lm	1.88 lm	2.81 lm	3.49 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