

Light efficiency:



Output: 999 lm

Light quality:

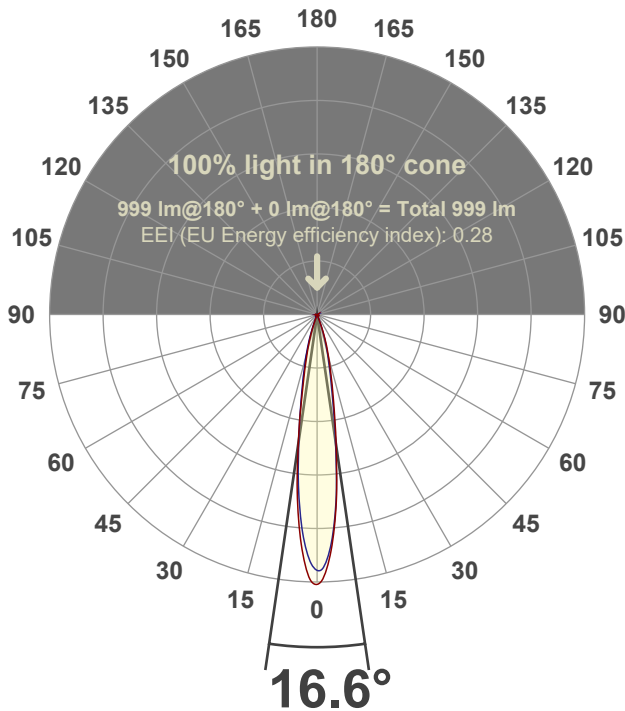


Peak: 9173 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-SP-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A20-3019 15° Optic

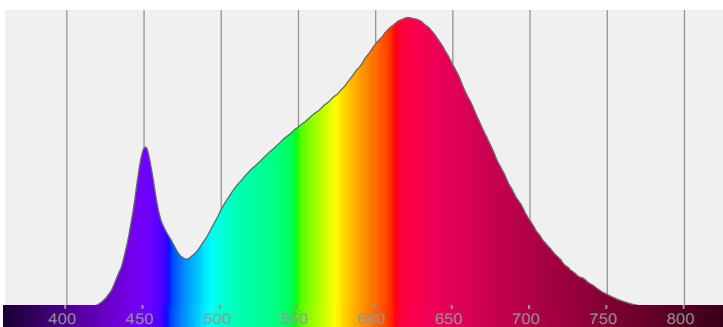
Date and time:

6/21/2022 8:43:44 PM

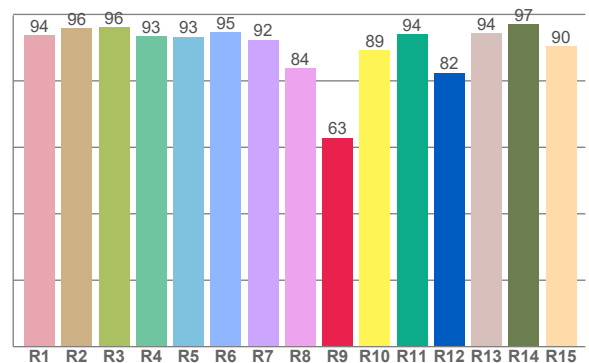
Delivered Lumens

999

Spectra



CRI: 92.9 (R1-R8)



Color parameters

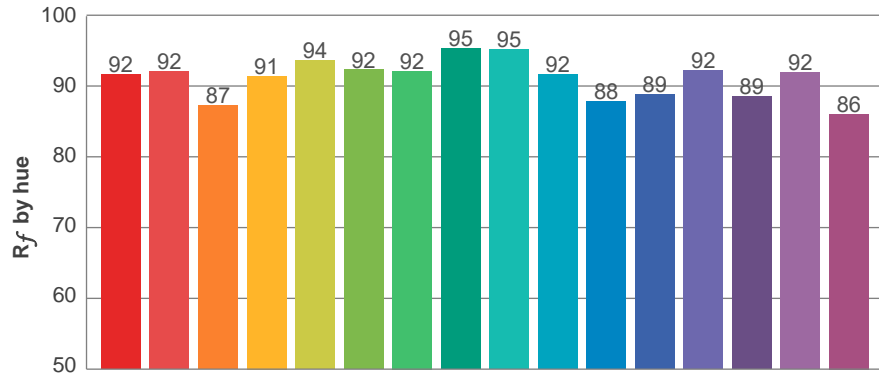
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	62.8	91.1	101.6	89.9	0.436	0.398	0.252	0.346	-0.0022

R_f 91.1
Fidelity index R_f

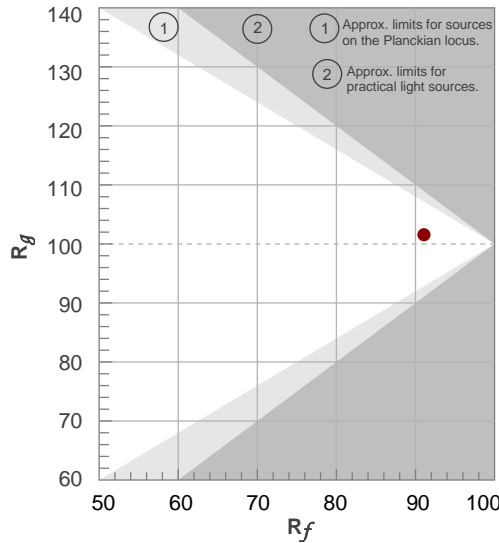
R_g 101.6
Gammut index R_g

TM30: 91.1

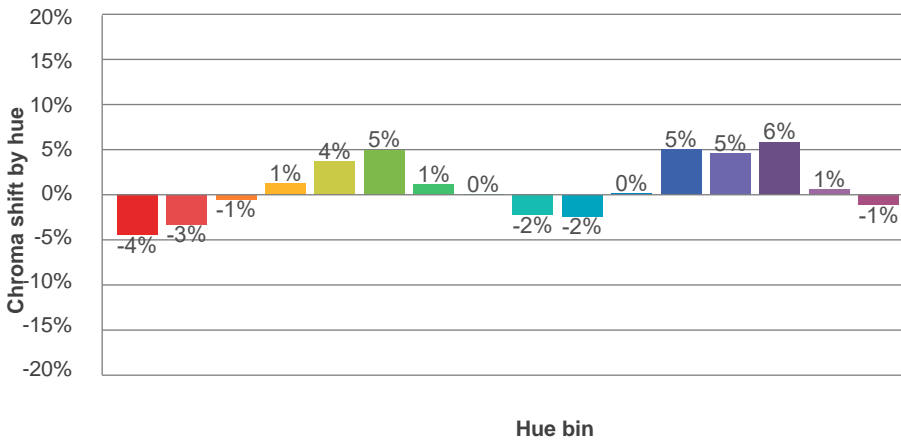
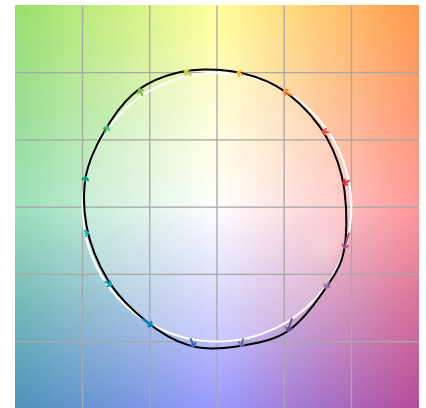
TM-30Color



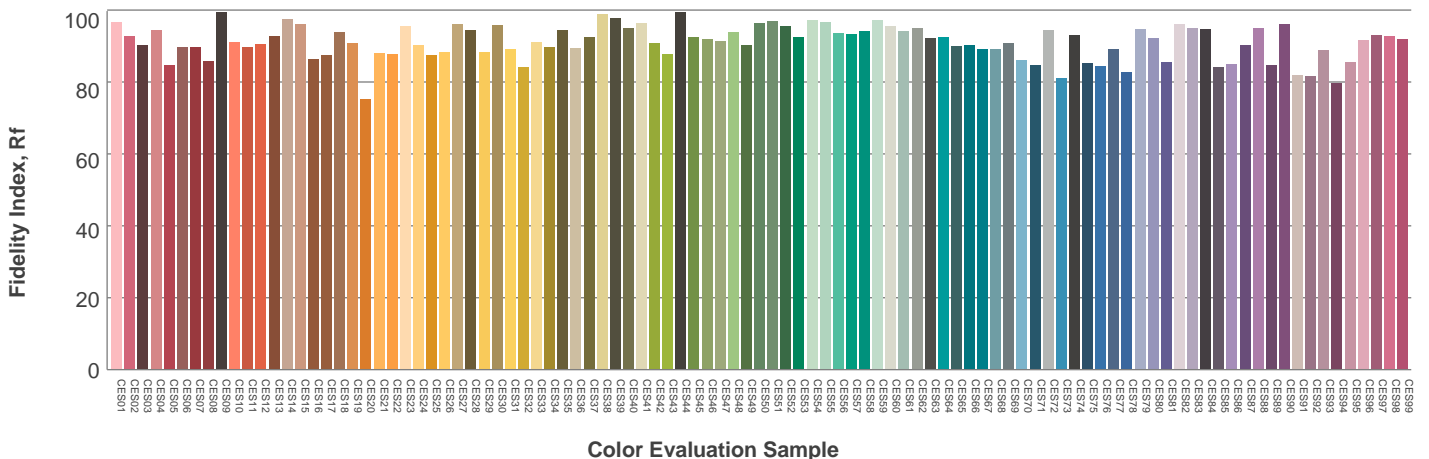
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	4%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



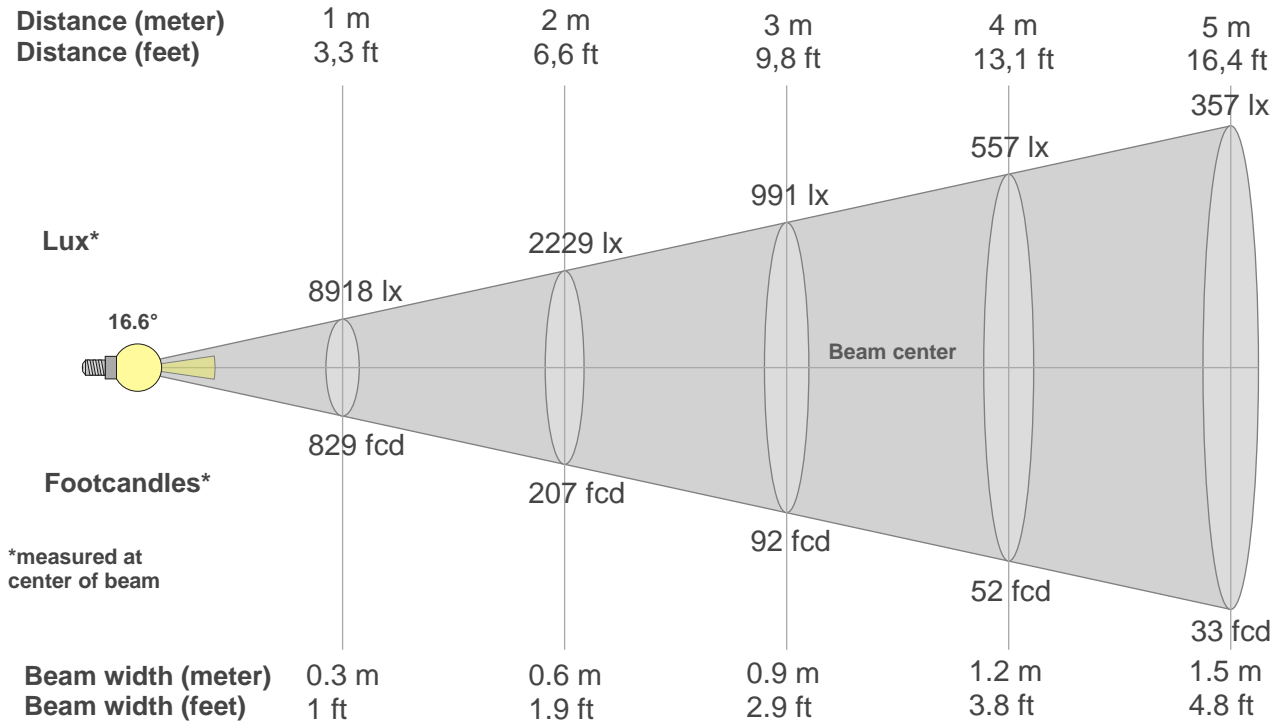
Color vector graphics



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
8918lx	2229lx	991lx	557lx	357lx	248lx	182lx	139lx	110lx	89lx	74lx	62lx	53lx	45lx	40lx	35lx	31lx	28lx	25lx	22lx
828.5fcd	207.1fcd	92.1fcd	51.8fcd	33.1fcd	23fcd	16.9fcd	12.9fcd	10.2fcd	8.3fcd	6.8fcd	5.8fcd	4.9fcd	4.2fcd	3.7fcd	3.2fcd	2.9fcd	2.6fcd	2.3fcd	2.1fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8918	9154	8728	8303	7733	7061	6375	5585	4795	4126	3518	2950	2553	2157	1852	1581	1327	1117	908	708
100%	103%	98%	93%	87%	79%	71%	63%	54%	46%	39%	33%	29%	24%	21%	18%	15%	13%	10%	8%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8918	8755	8445	8078	7597	6946	6295	5480	4656	3926	3299	2677	2303	1930	1633	1398	1167	969	771	588
100%	98%	95%	91%	85%	78%	71%	61%	52%	44%	37%	30%	26%	22%	18%	16%	13%	11%	9%	7%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8918	9134	8884	8393	7894	7166	6438	5648	4809	3988	3337	2685	2215	1851	1510	1276	1042	831	629	441
100%	102%	100%	94%	89%	80%	72%	63%	54%	45%	37%	30%	25%	21%	17%	14%	12%	9%	7%	5%

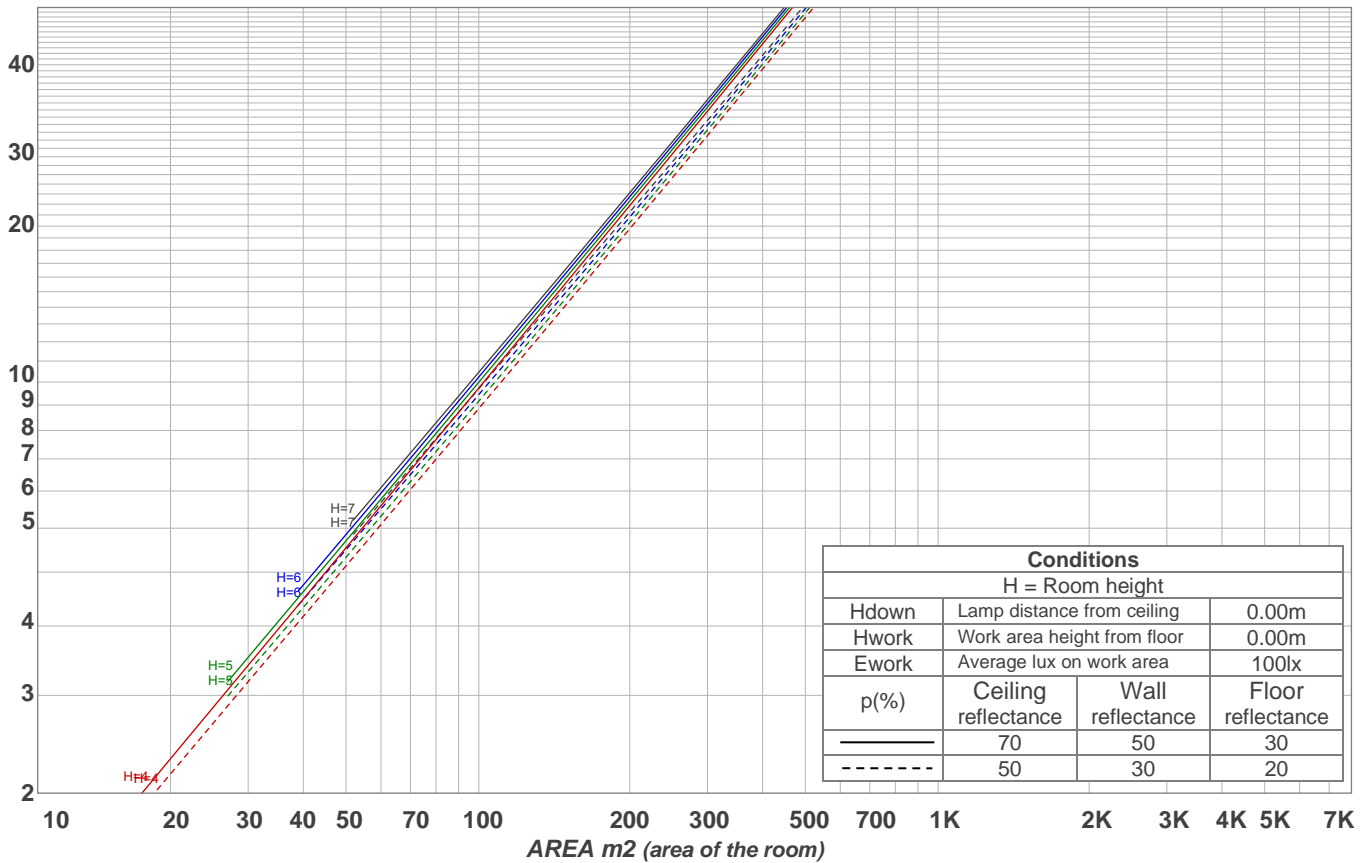
Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8918	8609	8298	7868	7393	6736	6079	5363	4627	3940	3386	2832	2431	2066	1738	1483	1227	1004	786	587
100%	97%	93%	88%	83%	76%	68%	60%	52%	44%	38%	32%	27%	23%	19%	17%	14%	11%	9%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.6°	34.8°	42.5°	98.6%	98.2%

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	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	97	
2	112	109	106	104	110	107	105	103	104	102	101	101	100	99	99	98	97	97	97	97	
3	109	105	102	100	108	104	101	99	102	99	97	99	97	96	97	96	94	94	94	94	
4	107	102	99	96	105	101	98	96	99	97	95	98	95	94	96	94	93	92	92	92	
5	105	100	96	94	103	99	96	93	97	94	92	96	93	92	94	92	91	90	90	90	
6	102	97	94	91	101	97	93	91	95	92	90	94	92	90	93	91	89	88	88	88	
7	100	95	92	89	99	95	91	89	94	91	89	93	90	88	92	90	88	87	87	87	
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	86	86	
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	84	84	
10	95	90	87	85	95	90	86	84	89	86	84	88	86	84	88	86	84	83	83	83	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
546 lm	397 lm	31.1 lm	5.43 lm	2.99 lm	2.83 lm	3.60 lm	4.60 lm	5.24 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