

Light efficiency:



Output: 875 lm

Light quality:

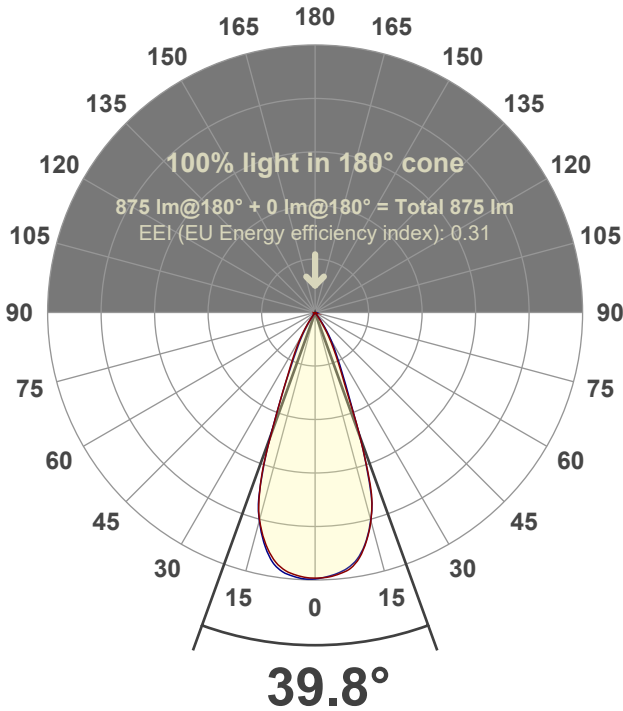


Peak: 1955 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-F-A20-3019-WF-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A20-3019 60° Optic

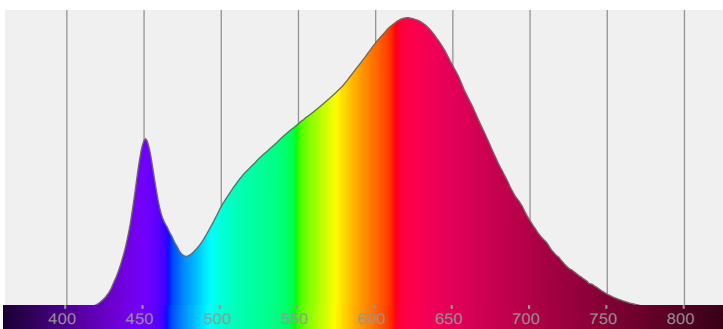
Date and time:

6/21/2022 7:59:11 PM

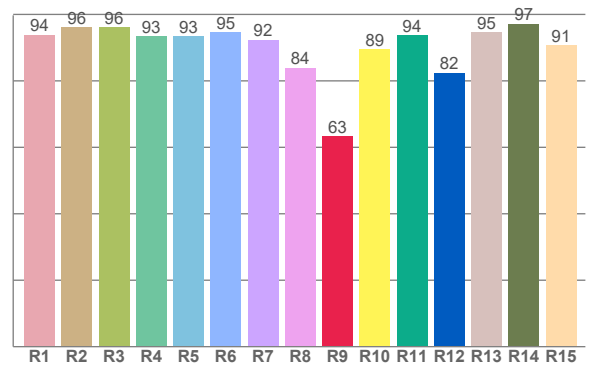
Delivered Lumens

875

Spectra



CRI: 92.9 (R1-R8)



Color parameters

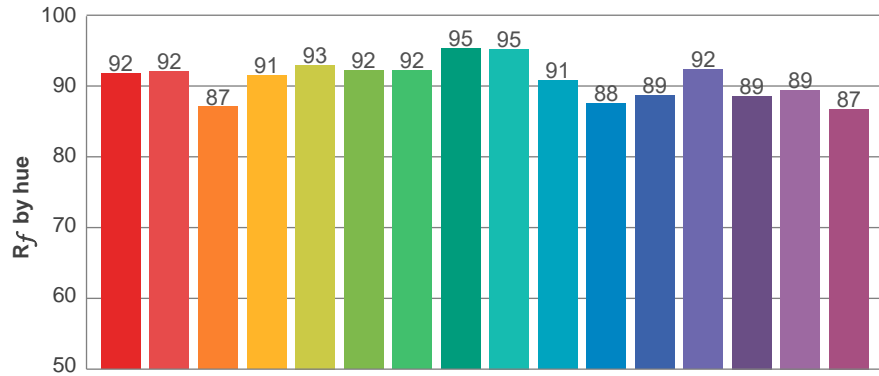
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.4	91.0	101.8	89.8	0.432	0.396	0.251	0.345	-0.0026

R_f 91.0
Fidelity index R_f

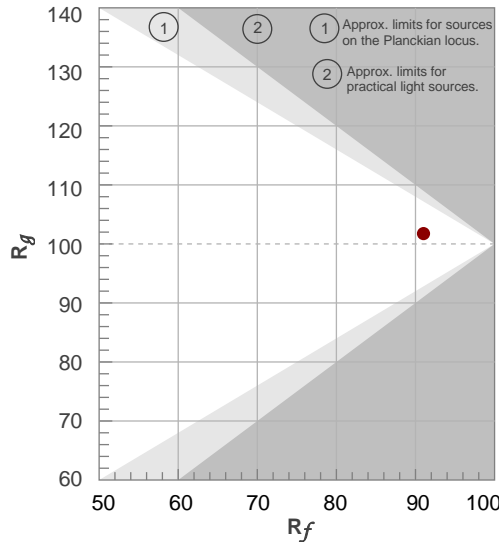
R_g 101.8
Gammut index R_g

TM30: 91.0

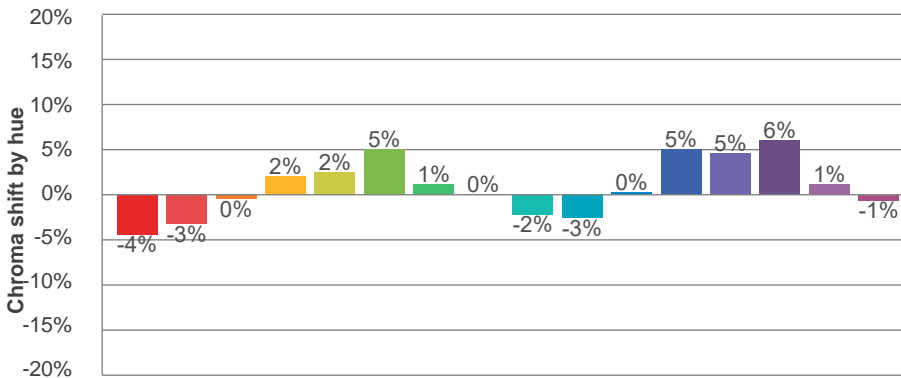
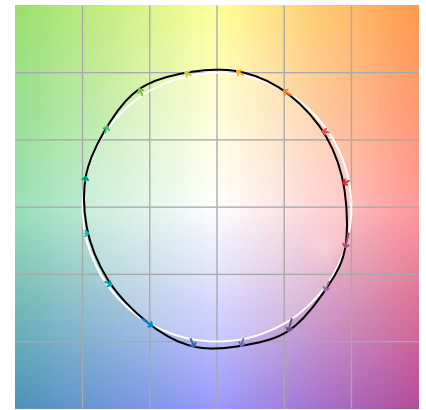
TM-30Color



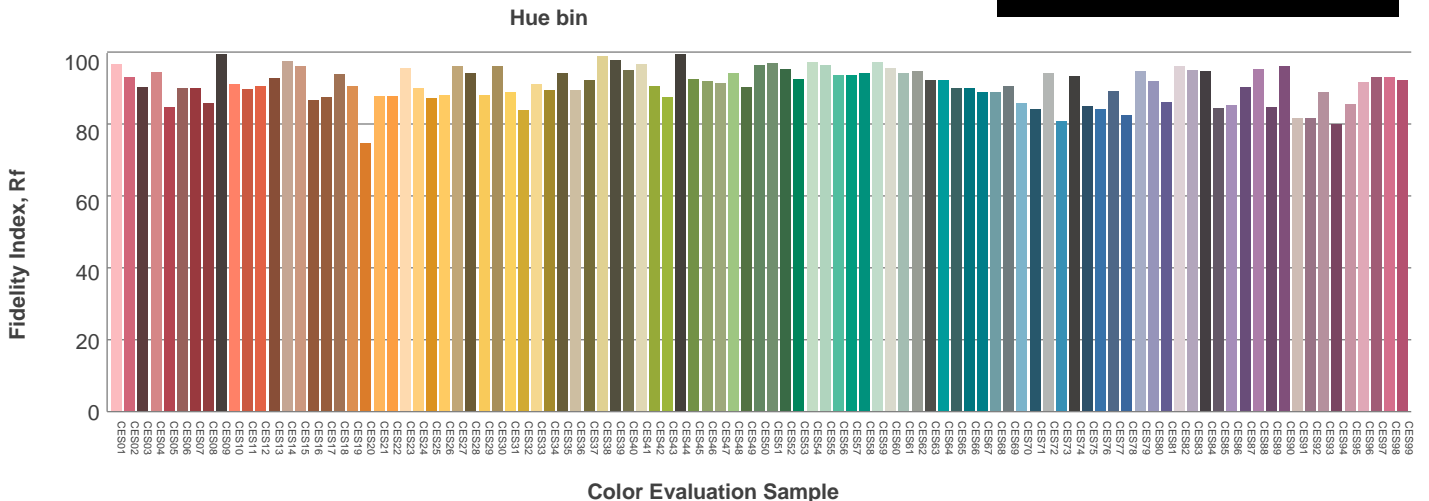
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	0%	7%
4	91	2%	5%
5	93	2%	4%
6	92	5%	-1%
7	92	1%	-4%
8	95	0%	-3%
9	95	-2%	0%
10	91	-3%	4%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



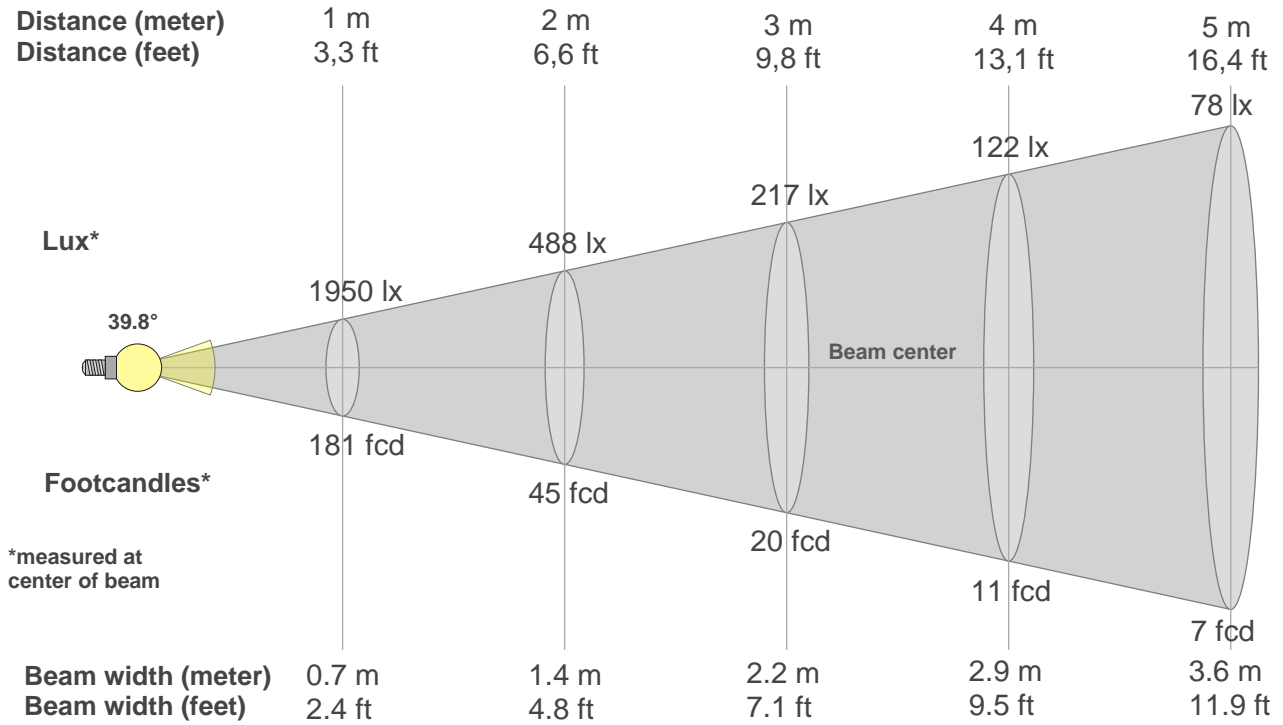
Color vector graphics



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
1950lx	488lx	217lx	122lx	78lx	54lx	40lx	30lx	24lx	20lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx
181.2fcd	45.3fcd	20.1fcd	11.3fcd	7.2fcd	5fcd	3.7fcd	2.8fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd

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°
1950	1944	1935	1918	1892	1836	1750	1641	1498	1288	958	643	470	354	266	195	136	83	48	26
100%	100%	99%	98%	97%	94%	90%	84%	77%	66%	49%	33%	24%	18%	14%	10%	7%	4%	2%	1%

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°
1950	1943	1928	1906	1873	1823	1746	1637	1495	1263	961	676	508	397	311	241	179	120	69	40
100%	100%	99%	98%	96%	93%	90%	84%	77%	65%	49%	35%	26%	20%	16%	12%	9%	6%	4%	2%

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°
1950	1944	1932	1911	1875	1817	1736	1634	1499	1271	957	673	486	374	291	220	159	105	61	30
100%	100%	99%	98%	96%	93%	89%	84%	77%	65%	49%	35%	25%	19%	15%	11%	8%	5%	3%	2%

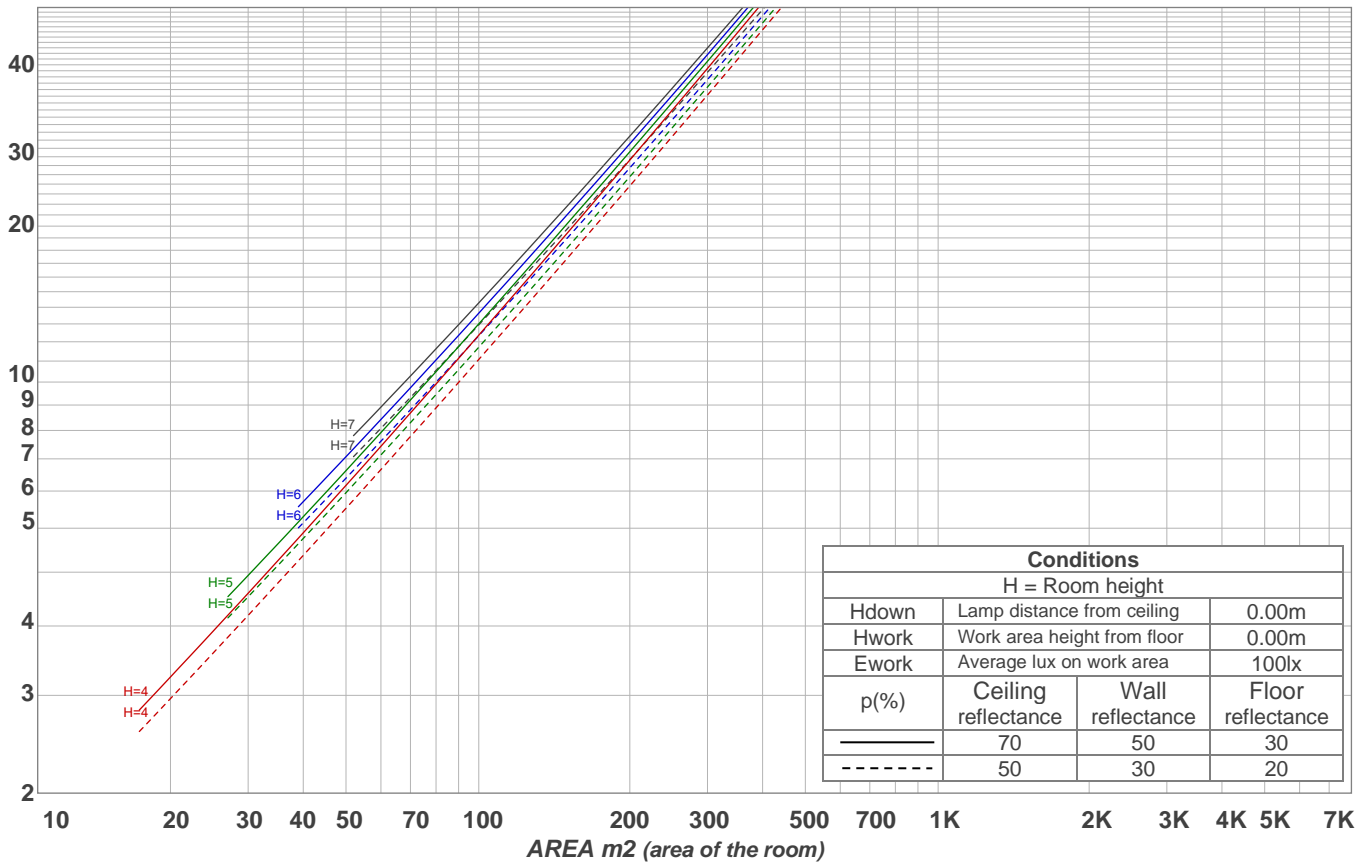
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1950	1955	1946	1928	1898	1844	1759	1644	1498	1263	960	658	453	333	248	180	122	75	39	22
100%	100%	100%	99%	97%	95%	90%	84%	77%	65%	49%	34%	23%	17%	13%	9%	6%	4%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.8°	60.9°	72.8°	98.7%	98.3%

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91	91	91	
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87	87	87	
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83	83	83	
5	98	91	87	83	97	91	86	83	89	85	82	87	84	81	86	83	81	80	80	80	
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	78	76	76	76	
7	91	84	79	76	90	83	79	76	82	78	75	81	77	75	80	77	74	73	73	73	
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70	70	70	
9	85	78	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68	68	68	
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65	65	65	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
181 lm	418 lm	206 lm	51.7 lm	4.13 lm	2.32 lm	3.12 lm	3.86 lm	4.35 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