

Light efficiency:



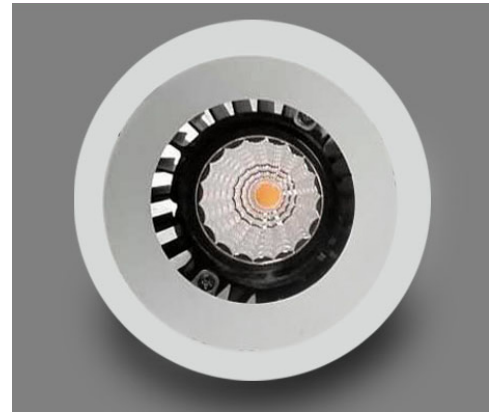
Output: 1547 lm

Light quality:

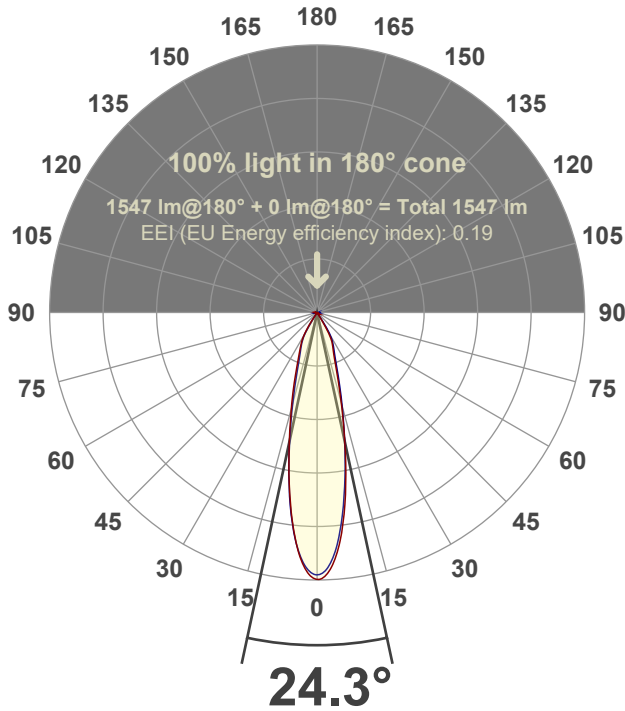


Peak: 5904 cd

Power: 21.3 W



Beam angle



Test number:

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

Luminaire Model:

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

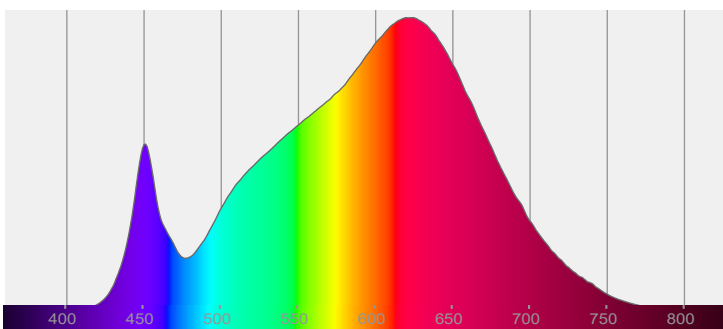
Date and time:

4/28/2022 7:49:54 PM

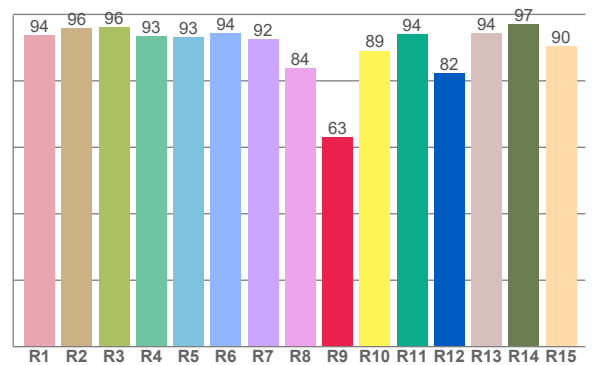
Delivered Lumens

1547

Spectra



CRI: 92.8 (R1-R8)



Color parameters

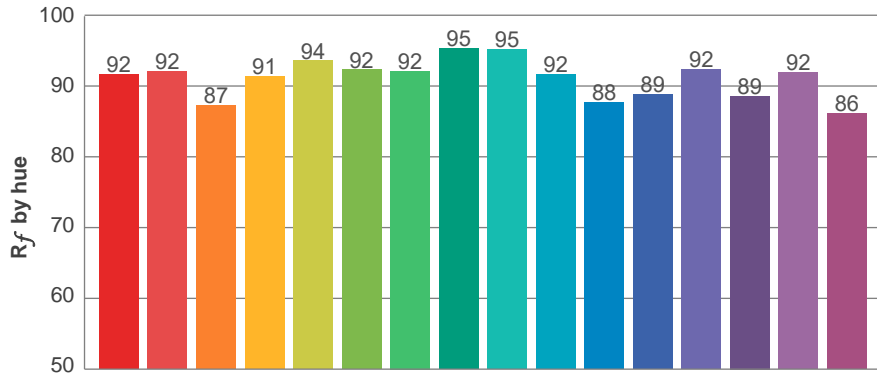
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	63.0	91.1	101.6	89.9	0.435	0.398	0.252	0.346	-0.0021

R_f 91.1
Fidelity index R_f

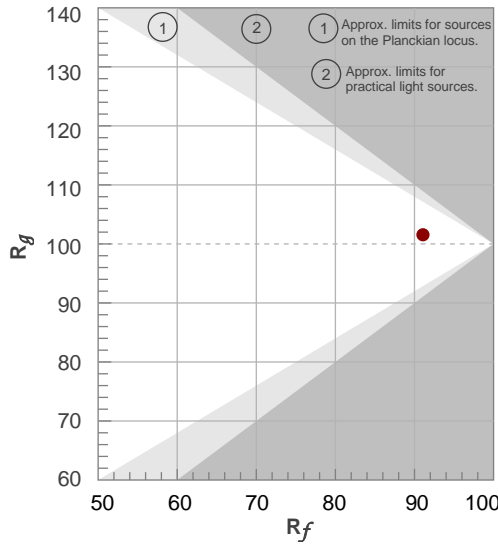
R_g 101.6
Gammut index R_g

TM30: 91.1

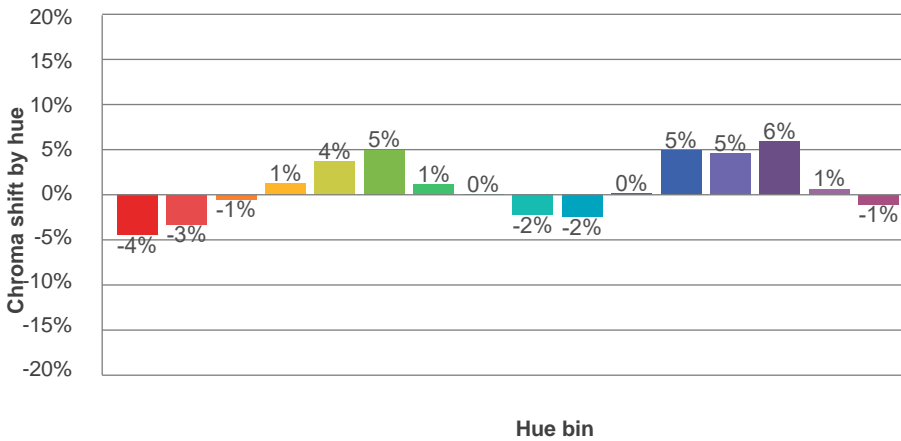
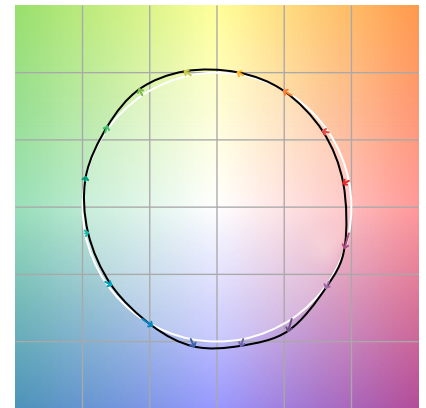
TM-30Color



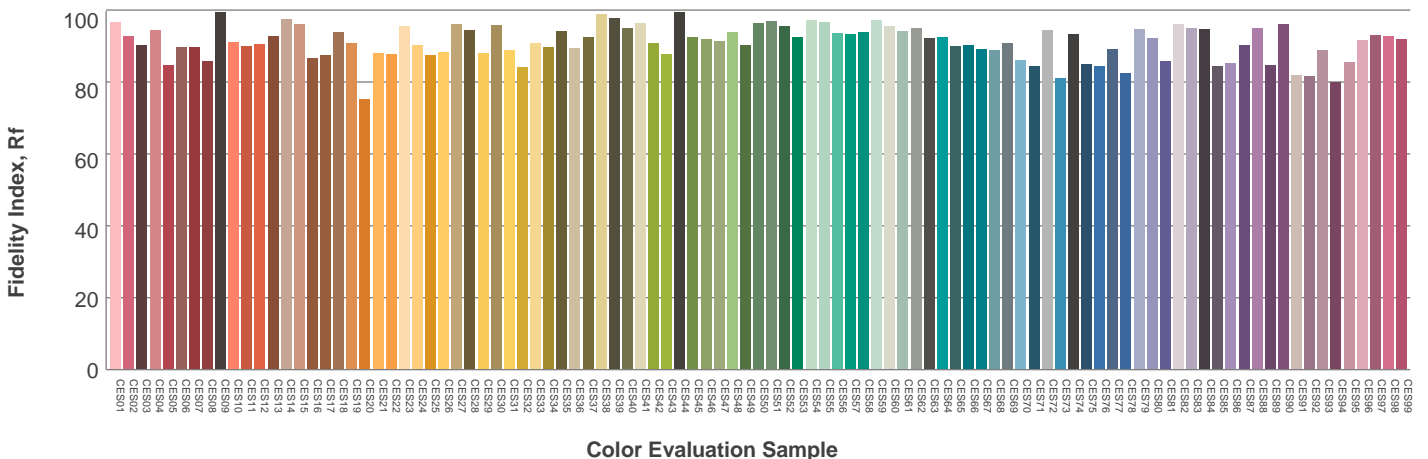
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	4%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



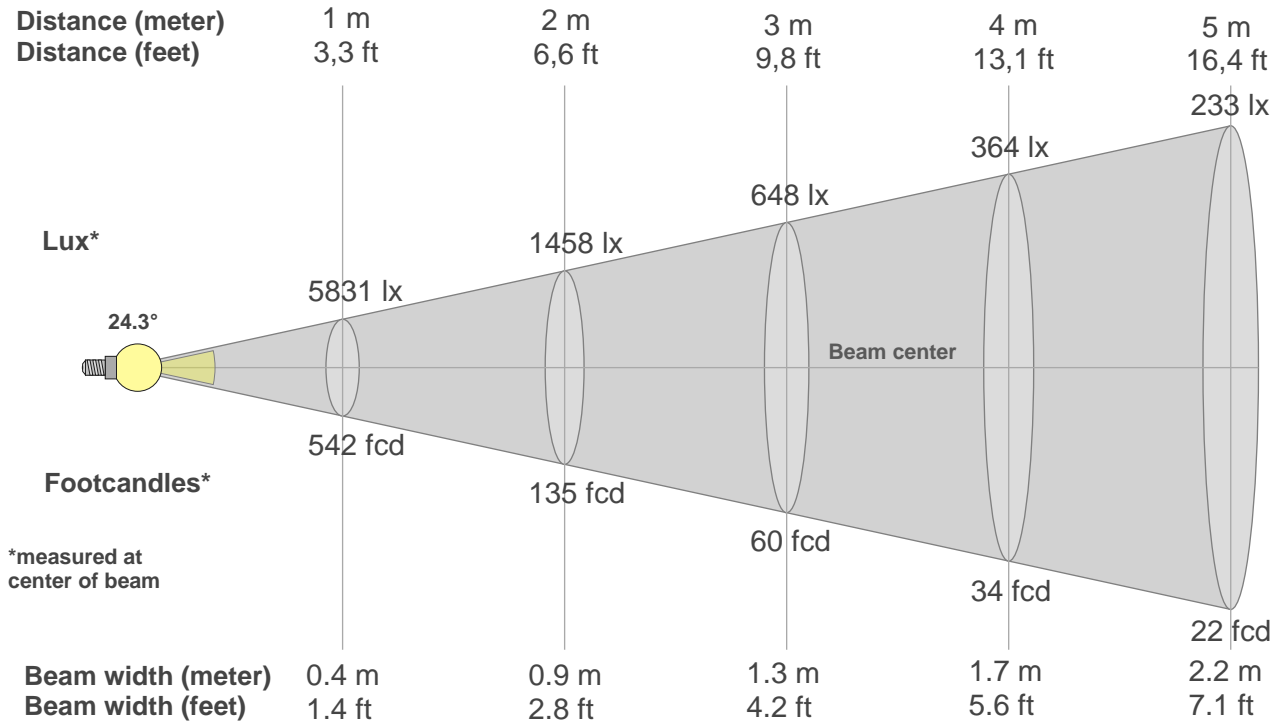
Color vector graphics



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
5831lx	1458lx	648lx	364lx	233lx	162lx	119lx	91lx	72lx	58lx	48lx	40lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
541.8fcd	135.4fcd	60.2fcd	33.9fcd	21.7fcd	15fcd	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°
5831	5774	5478	5009	4377	3677	2991	2368	1847	1460	1188	1000	871	771	659	469	261	90	12	10
100%	99%	94%	86%	75%	63%	51%	41%	32%	25%	20%	17%	15%	13%	11%	8%	4%	2%	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°
5831	5696	5352	4844	4234	3581	2952	2411	1950	1573	1277	1072	938	827	723	606	425	190	54	8
100%	98%	92%	83%	73%	61%	51%	41%	33%	27%	22%	18%	16%	14%	12%	10%	7%	3%	1%	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°
5831	5764	5412	4876	4257	3609	2983	2449	2025	1662	1360	1128	970	843	728	600	430	245	88	12
100%	99%	93%	84%	73%	62%	51%	42%	35%	29%	23%	19%	17%	14%	12%	10%	7%	4%	2%	0%

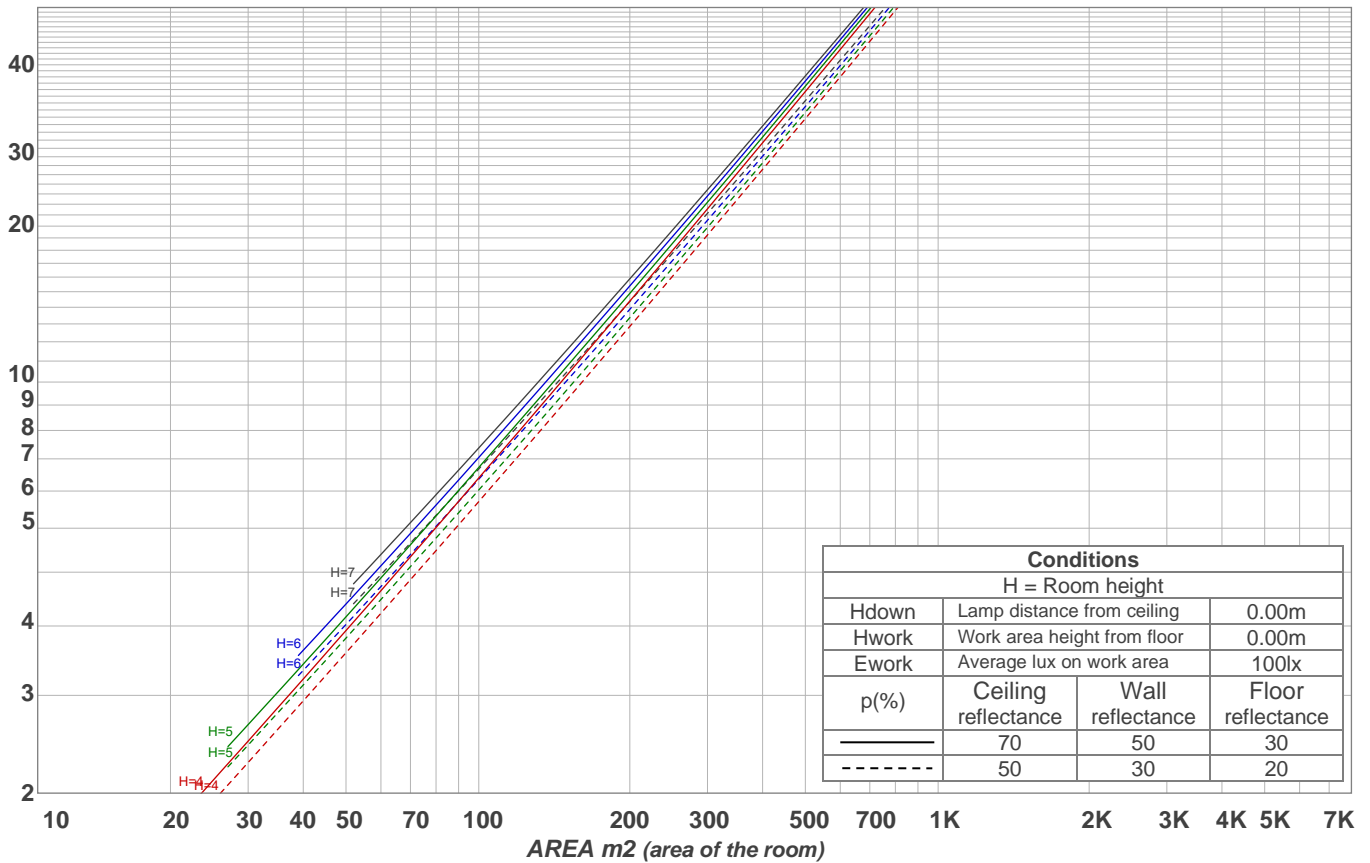
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5831	5668	5364	4896	4296	3610	2953	2370	1883	1494	1227	1039	902	791	684	538	316	120	14	8
100%	97%	92%	84%	74%	62%	51%	41%	32%	26%	21%	18%	15%	14%	12%	9%	5%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.3°	59.3°	68.1°	99.5%	99.3%

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88	88	88	
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81	81	81	
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78	78	78	
7	93	86	81	78	92	85	81	78	84	80	77	83	80	77	82	79	77	76	76	76	
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	79	76	74	73	73	73	
9	87	80	75	72	86	79	75	72	79	75	72	78	74	72	77	74	72	70	70	70	
10	84	77	73	70	84	77	73	70	76	72	70	75	72	69	75	71	69	68	68	68	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
442 lm	600 lm	397 lm	95.8 lm	2.45 lm	1.72 lm	1.74 lm	2.69 lm	3.71 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