

Light efficiency:



Output: 532 lm

Light quality:

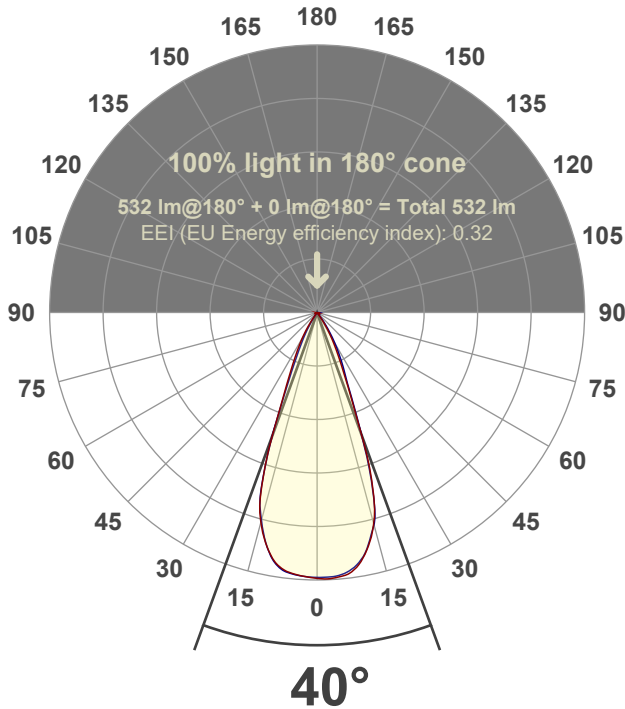


Peak: 1166 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-F-A14-3019-WF-SQ-Rev2

Luminaire Model:

Graffiti Flat Square Fixed Downlight-A14-3019 60° Optic

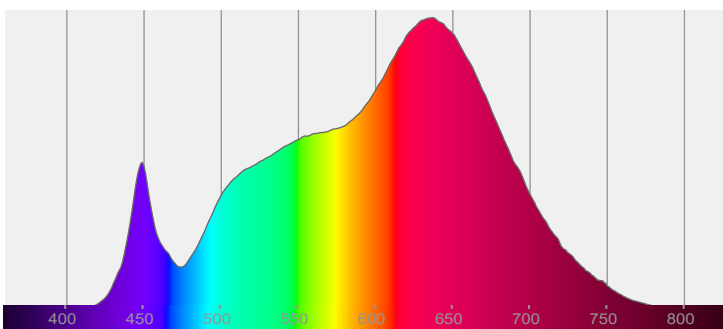
Date and time:

6/21/2022 9:34:12 PM

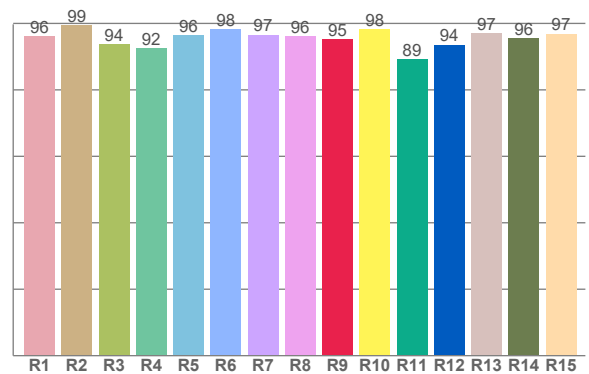
Delivered Lumens

532

Spectra



CRI: 96.1 (R1-R8)



Color parameters

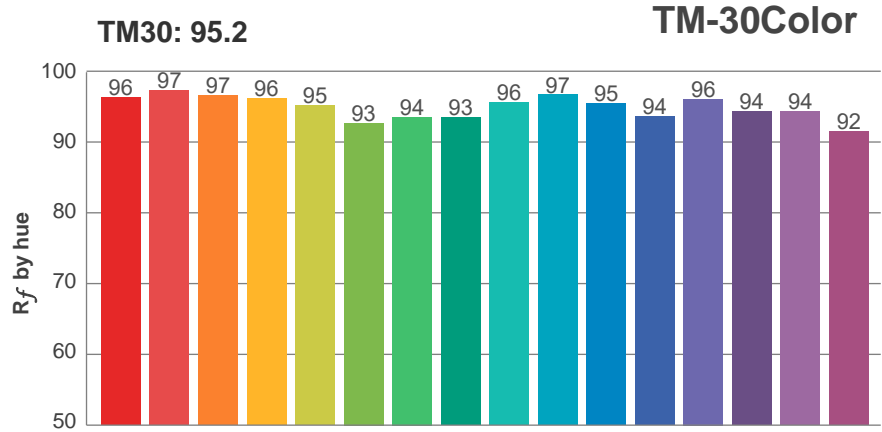
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.1	95.3	95.2	104.4	94.8	0.434	0.401	0.250	0.346	-0.0009

R_f 95.2

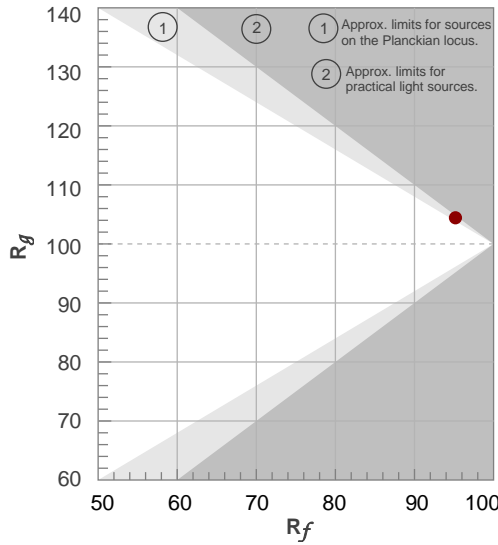
Fidelity index R_f

R_g 104.4

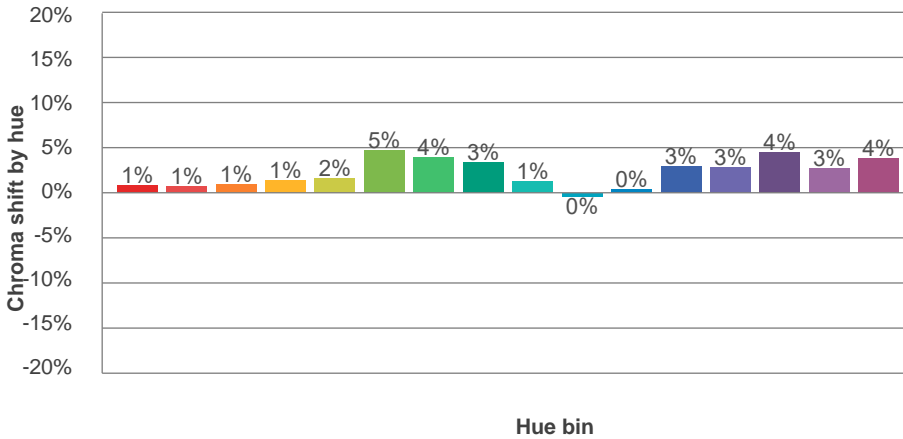
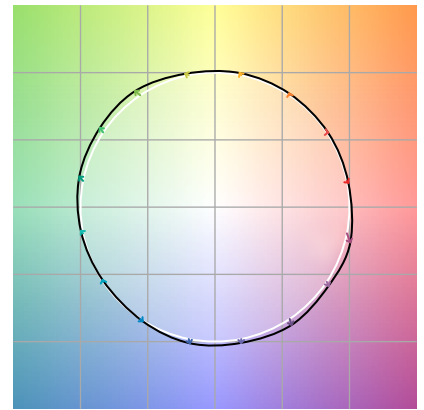
Gammut index R_g



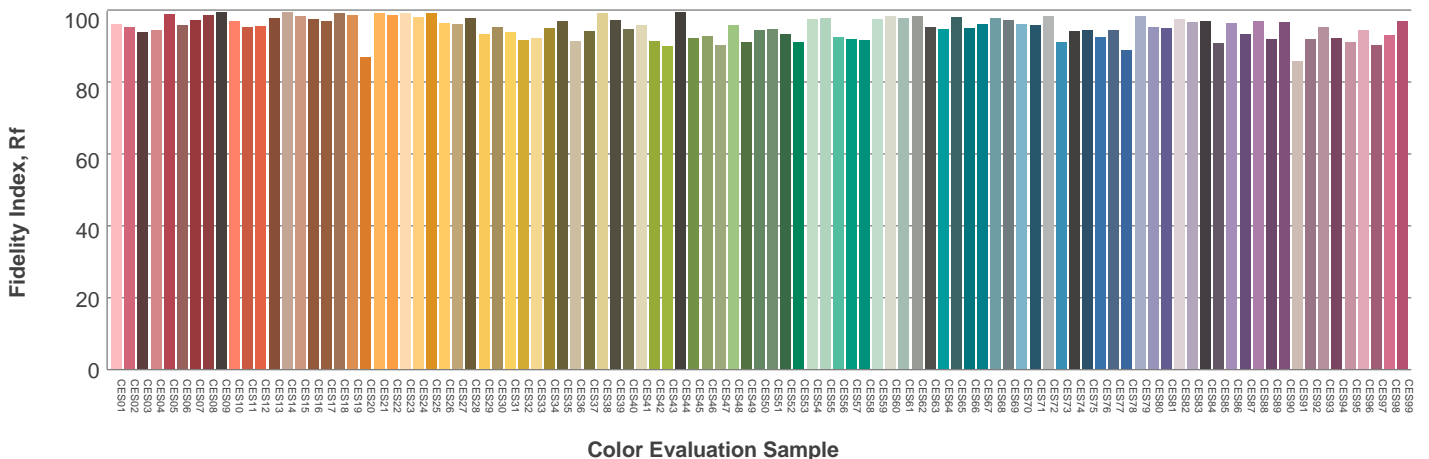
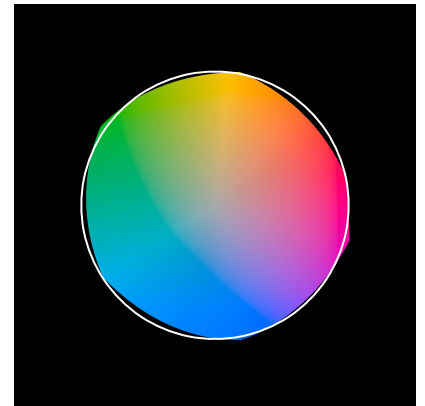
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	95	2%	2%
6	93	5%	1%
7	94	4%	-2%
8	93	3%	-3%
9	96	1%	-2%
10	97	0%	-1%
11	95	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-1%
15	94	3%	-2%
16	92	4%	-6%



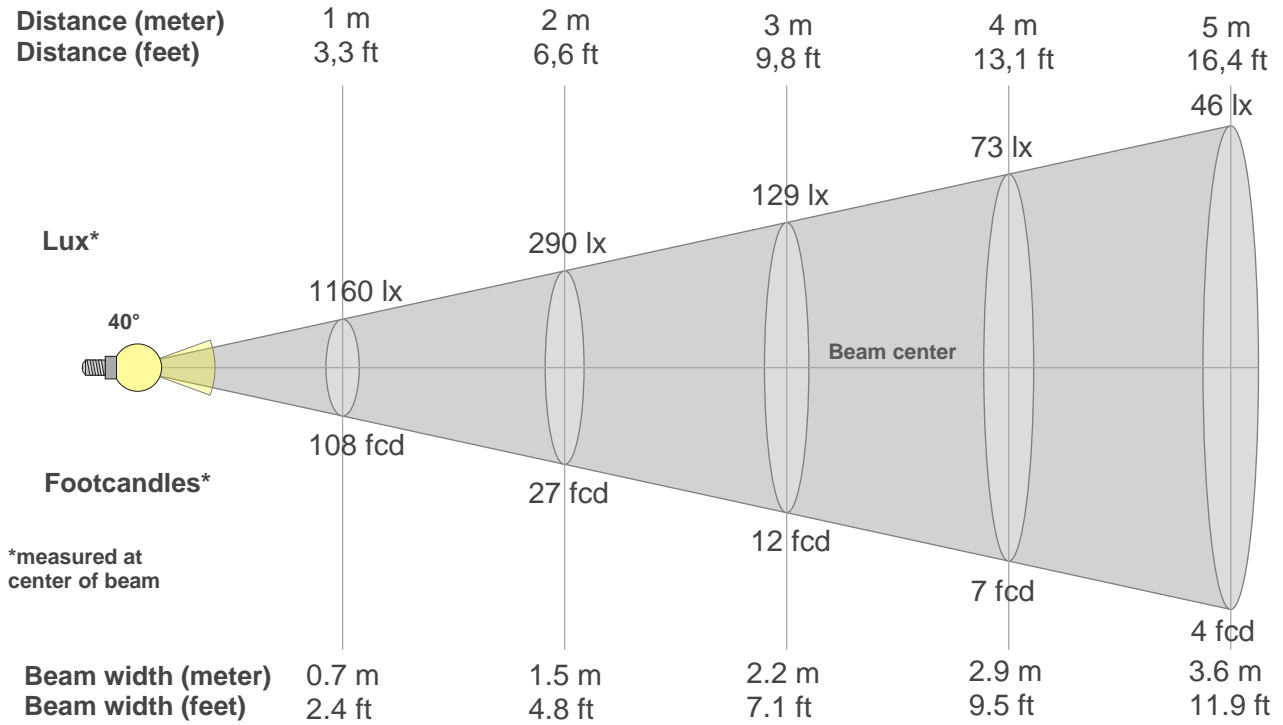
Color vector graphics



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
1160lx	290lx	129lx	73lx	46lx	32lx	24lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
107.8fcd	27fcd	12fcd	6.7fcd	4.3fcd	3fcd	2.2fcd	1.7fcd	1.3fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd

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°
1160	1166	1162	1155	1137	1104	1057	994	907	770	586	402	289	220	169	127	90	59	32	16
100%	100%	100%	100%	98%	95%	91%	86%	78%	66%	50%	35%	25%	19%	15%	11%	8%	5%	3%	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°
1160	1158	1156	1146	1128	1097	1052	989	918	763	580	422	316	257	206	162	121	86	56	32
100%	100%	100%	99%	97%	95%	91%	85%	79%	66%	50%	36%	27%	22%	18%	14%	10%	7%	5%	3%

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°
1160	1158	1151	1143	1126	1098	1050	986	902	768	586	399	296	231	179	137	99	66	37	19
100%	100%	99%	98%	97%	95%	90%	85%	78%	66%	50%	34%	26%	20%	15%	12%	9%	6%	3%	2%

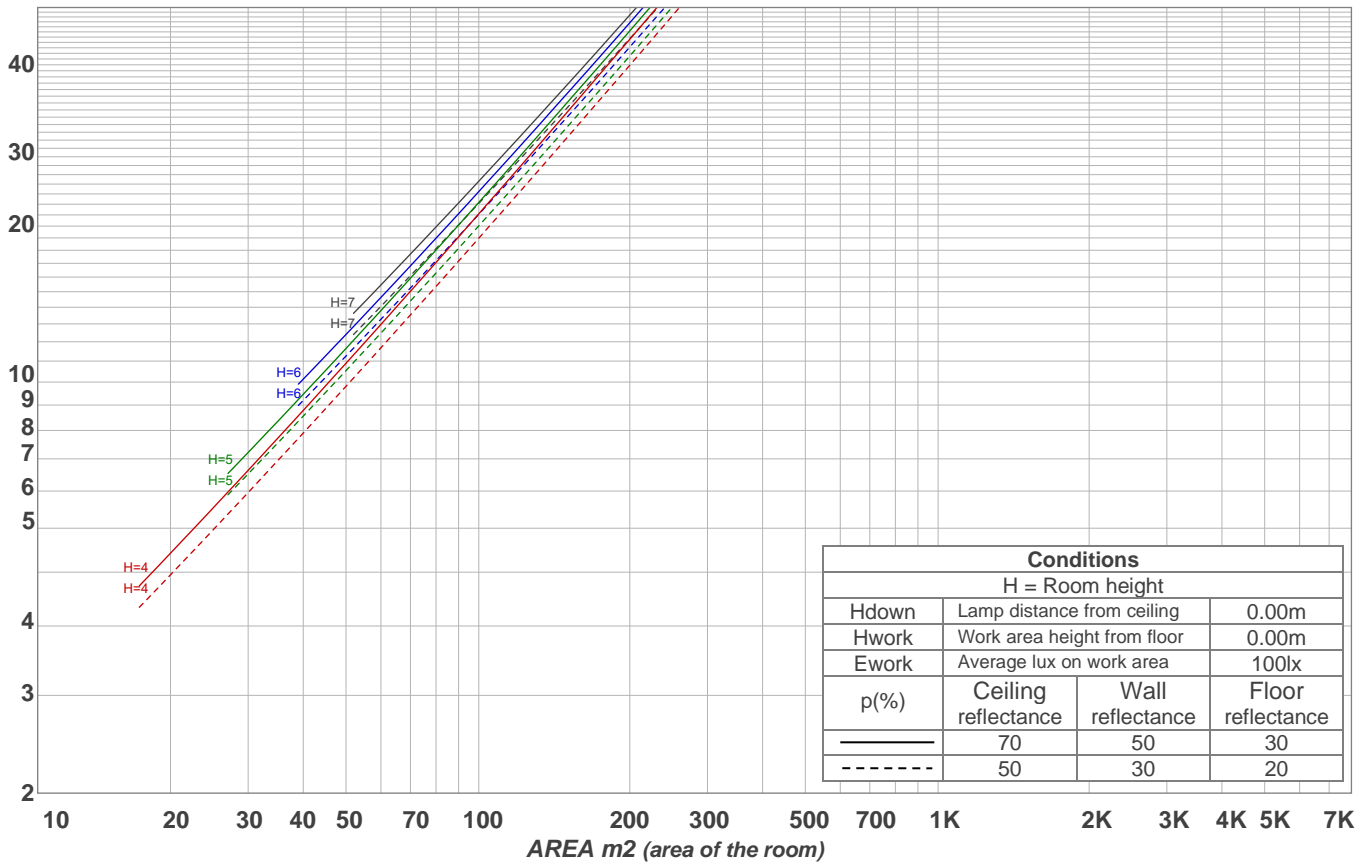
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1160	1156	1152	1145	1132	1101	1048	979	895	772	580	377	261	185	134	95	62	36	19	10
100%	100%	99%	99%	98%	95%	90%	84%	77%	67%	50%	33%	22%	16%	12%	8%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40°	61.3°	73.2°	98.4%	97.9%

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	98	98	97	95	95	95	
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86	86	86	
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	85	83	80	79	79	79	
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76	76	76	
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73	73	73	
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70	70	70	
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67	67	67	
10	82	74	70	67	81	74	69	66	73	69	66	73	69	66	72	68	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°
109 lm	252 lm	125 lm	32.9 lm	2.90 lm	1.67 lm	2.82 lm	2.96 lm	2.67 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