

Light efficiency:



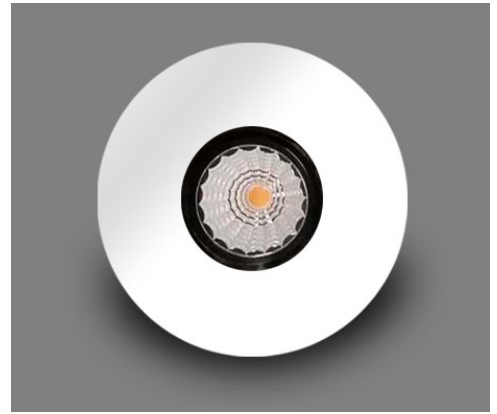
Output: 594 lm

Light quality:

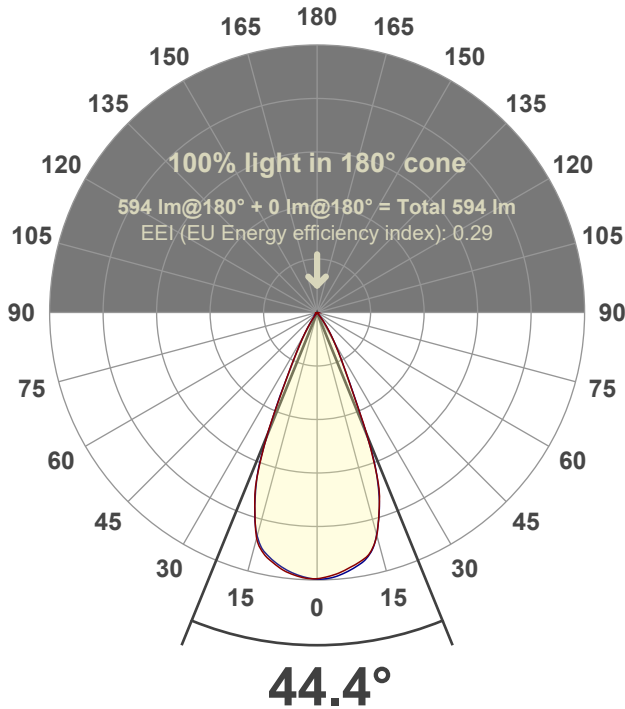


Peak: 1153 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-F-A14-3019-WF-RD-Rev2

Luminaire Model:

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

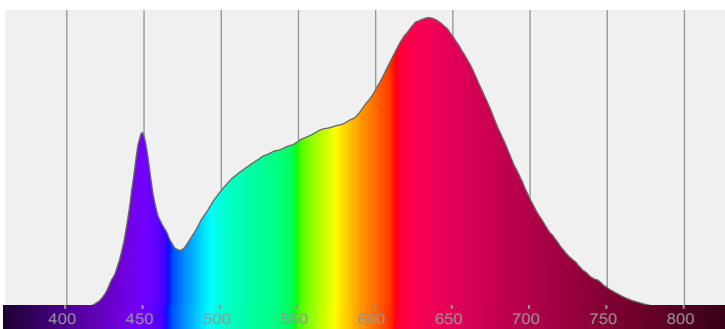
Date and time:

3/24/2022 10:00:43 PM

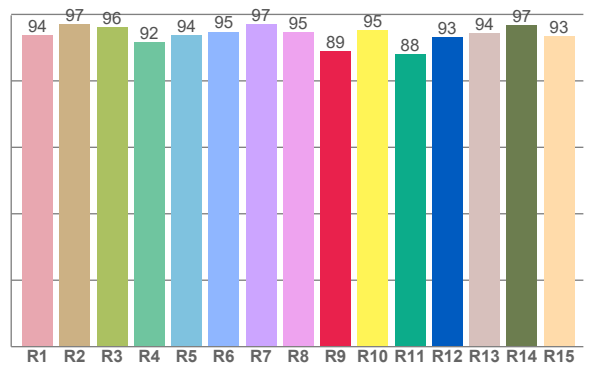
Delivered Lumens

594

Spectra



CRI: 94.9 (R1-R8)



Color parameters

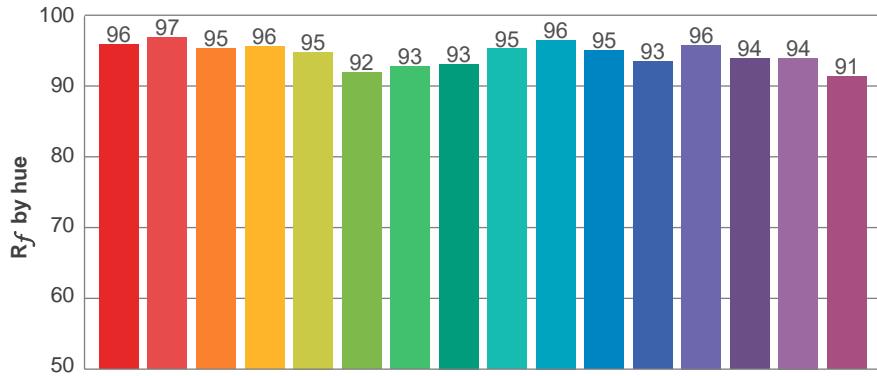
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.9	88.9	94.7	105.6	94.9	0.422	0.386	0.248	0.341	-0.0051

R_f 94.7
Fidelity index R_f

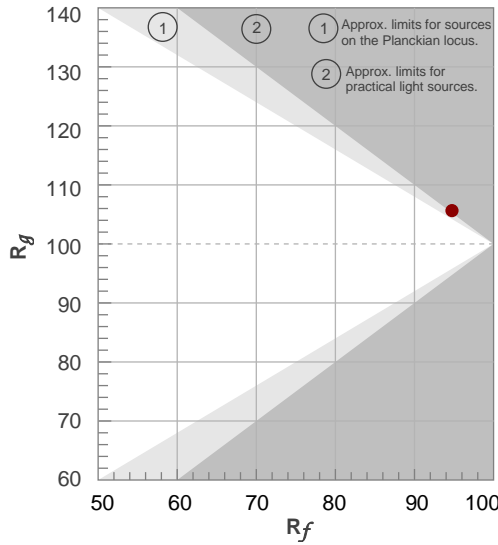
R_g 105.6
Gammut index R_g

TM30: 94.7

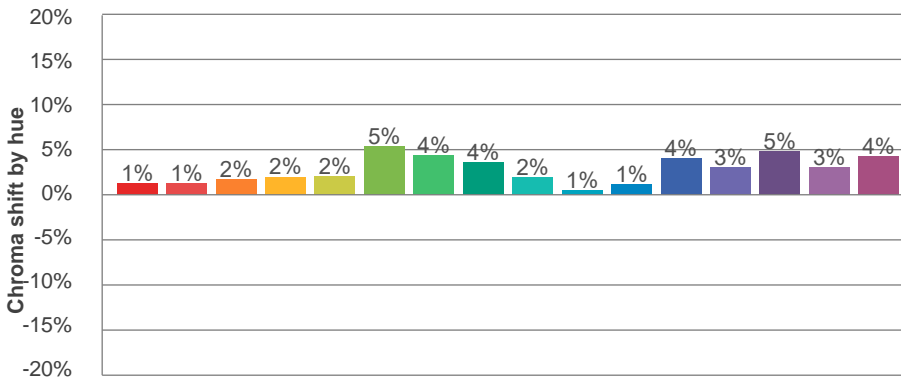
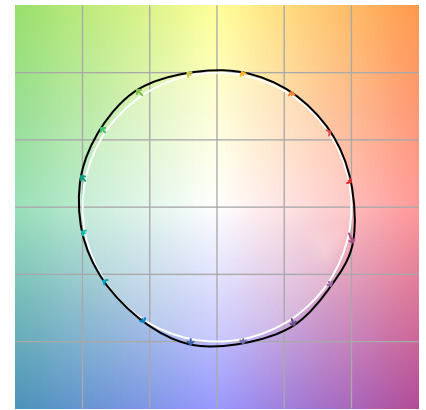
TM-30Color



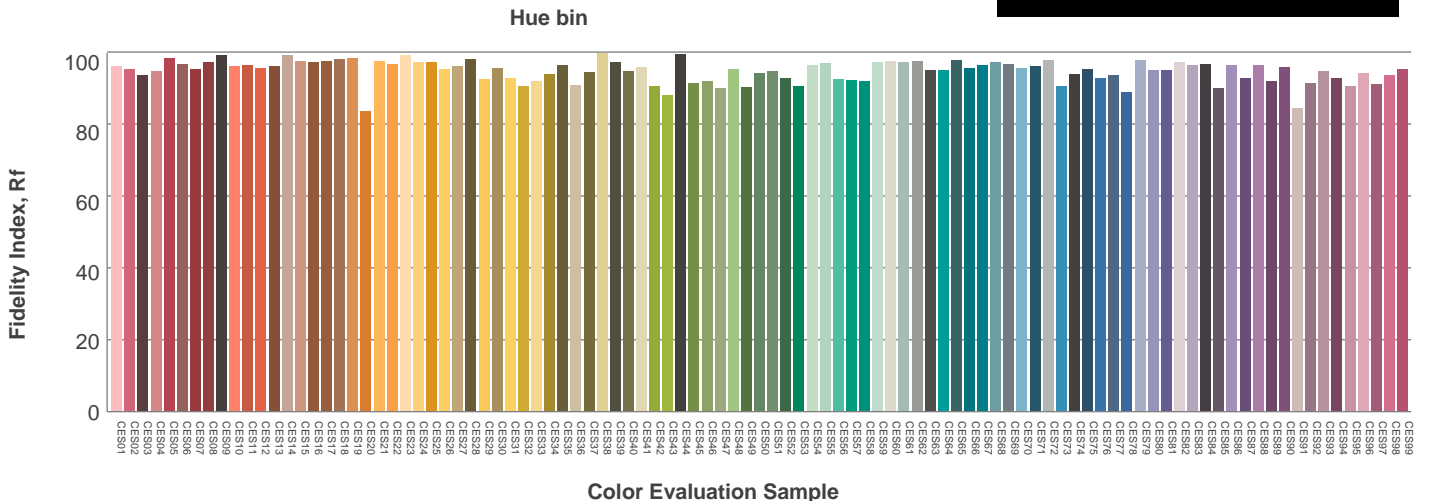
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	0%
3	95	2%	1%
4	96	2%	1%
5	95	2%	2%
6	92	5%	1%
7	93	4%	-1%
8	93	4%	-3%
9	95	2%	-2%
10	96	1%	-1%
11	95	1%	2%
12	93	4%	1%
13	96	3%	-1%
14	94	5%	-1%
15	94	3%	-1%
16	91	4%	-6%



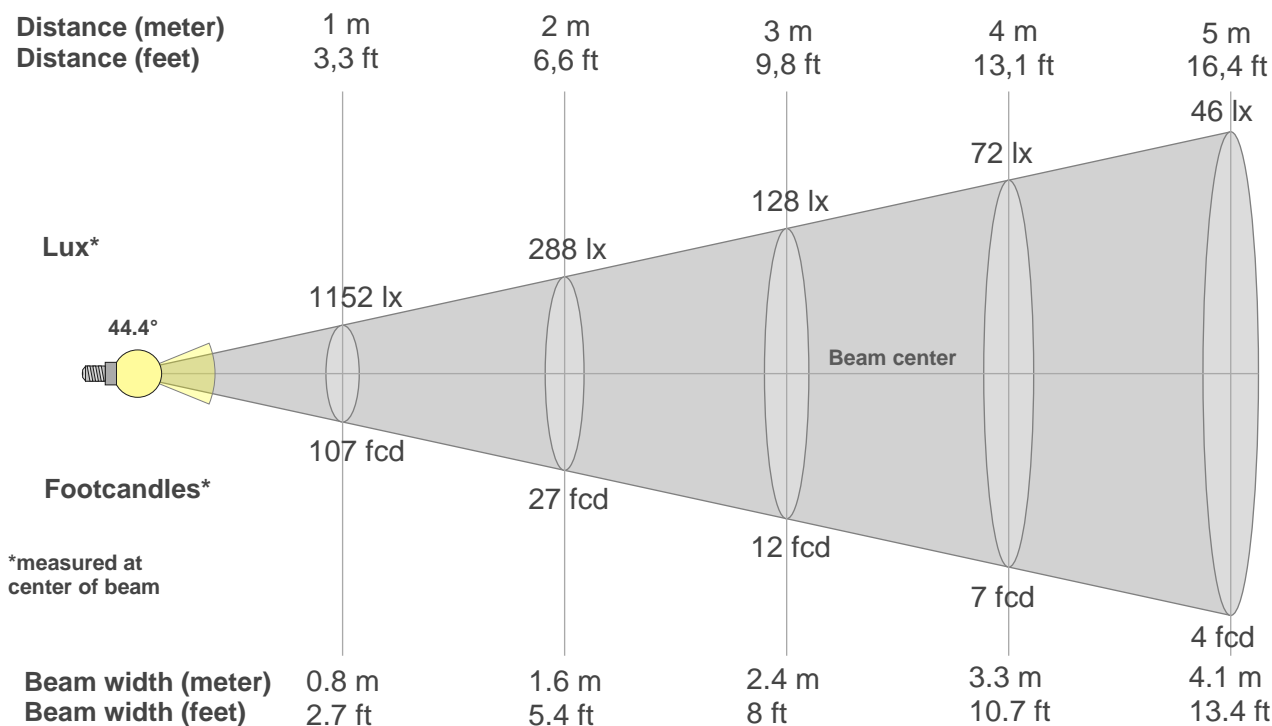
Color vector graphics



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
1152lx	288lx	128lx	72lx	46lx	32lx	24lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx	3lx
107fcd	26.8fcd	11.9fcd	6.7fcd	4.3fcd	3fcd	2.2fcd	1.7fcd	1.3fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	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°
1152	1144	1135	1122	1107	1092	1070	1026	957	870	764	593	409	289	213	156	117	83	54	33
100%	99%	99%	97%	96%	95%	93%	89%	83%	76%	66%	52%	36%	25%	18%	14%	10%	7%	5%	3%

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°
1152	1151	1145	1133	1118	1100	1072	1028	957	870	754	592	407	276	211	158	116	81	52	31
100%	100%	99%	98%	97%	95%	93%	89%	83%	76%	65%	51%	35%	24%	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°
1152	1150	1144	1134	1119	1099	1075	1036	966	871	764	593	403	266	181	125	85	56	34	19
100%	100%	99%	98%	97%	95%	93%	90%	84%	76%	66%	52%	35%	23%	16%	11%	7%	5%	3%	2%

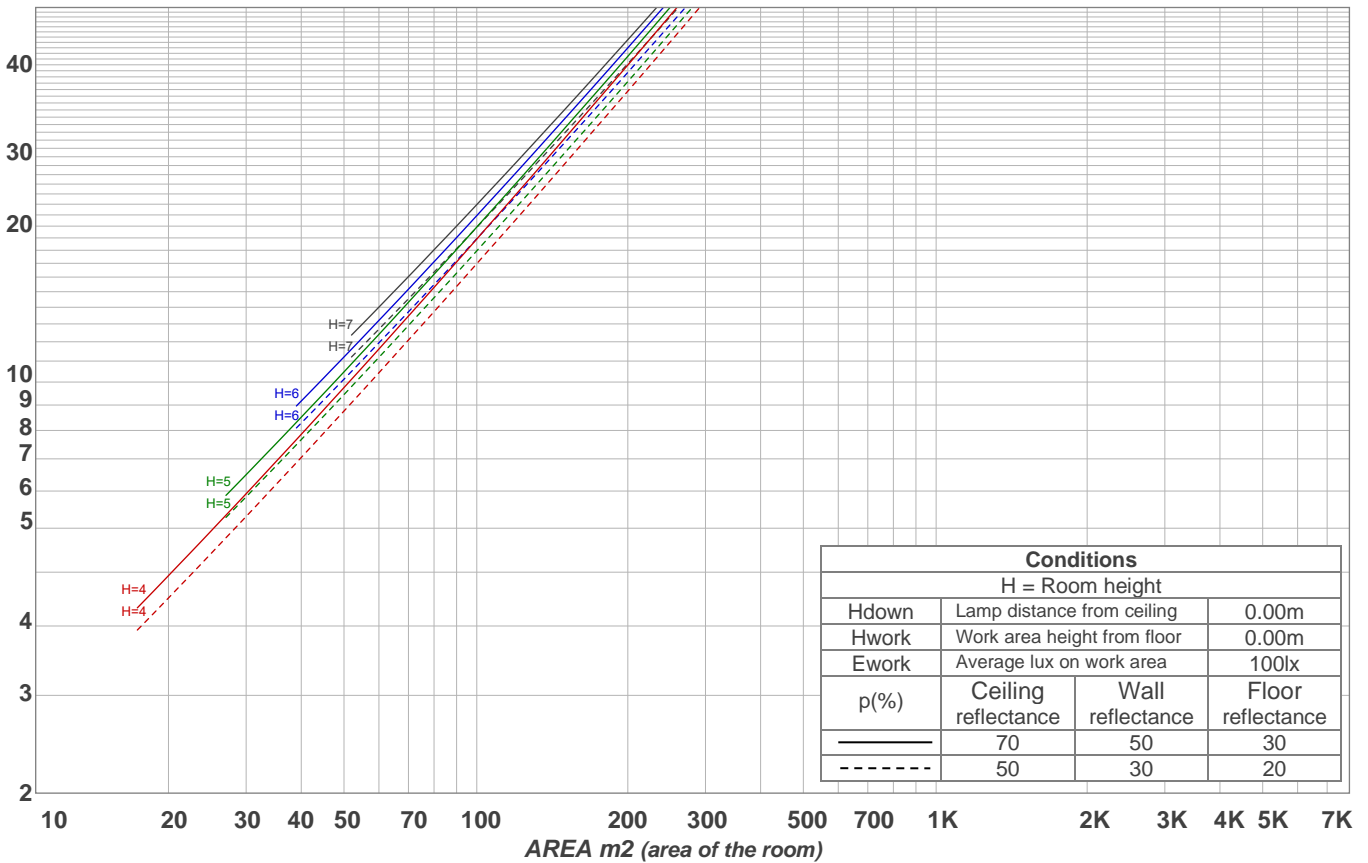
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1152	1148	1139	1127	1110	1090	1064	1027	968	871	755	592	404	249	174	122	82	52	30	16
100%	100%	99%	98%	96%	95%	92%	89%	84%	76%	66%	51%	35%	22%	15%	11%	7%	5%	3%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44.4°	62.4°	74.7°	98.8%	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	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95	95	95	
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86	86	86	
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82	82	82	
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78	78	78	
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75	75	75	
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72	72	72	
8	87	79	74	71	86	79	74	71	78	73	70	77	73	70	76	72	70	69	69	69	
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	
10	81	73	68	65	80	73	68	65	72	68	65	71	67	65	71	67	65	63	63	63	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
107 lm	271 lm	166 lm	36.9 lm	3.44 lm	1.72 lm	2.18 lm	2.38 lm	2.54 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