

Light efficiency:



Output: 1705 lm

Light quality:

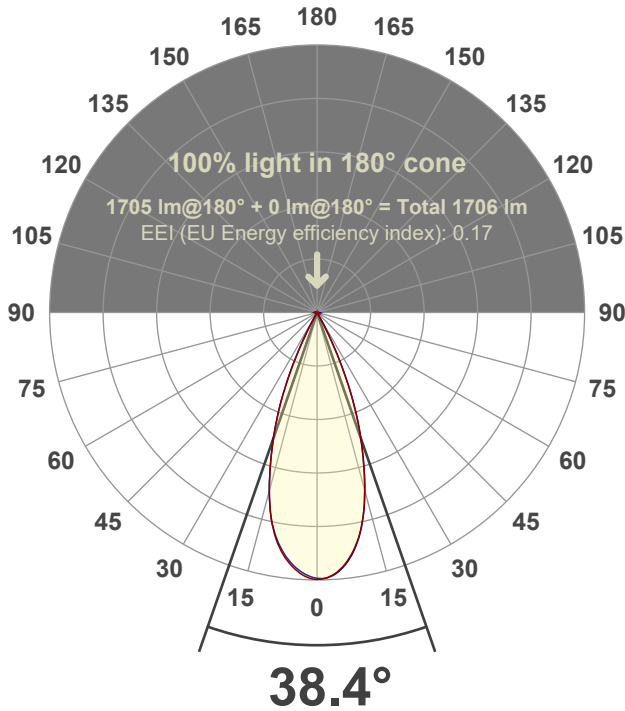


Peak: 4458 cd

Power: 20.7 W



Beam angle



Test number:

GR-F-CZ20-30k-FL-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-CZ20 30k 38° Optic

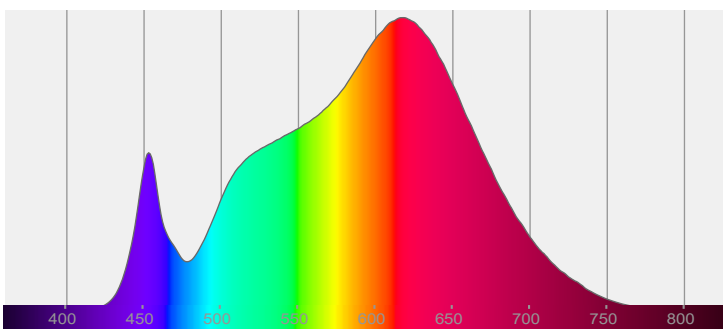
Date and time:

6/30/2022 8:03:26 PM

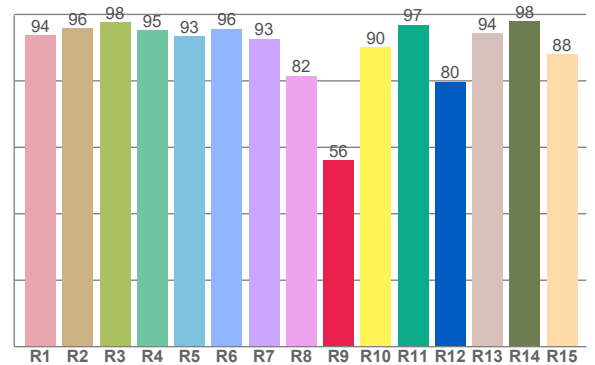
Delivered Lumens

1705

Spectra



CRI: 93.2 (R1-R8)



Color parameters

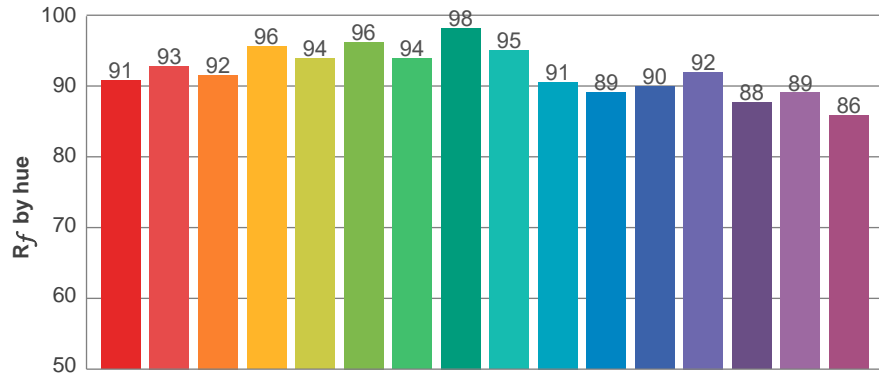
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.2	56.1	92.2	99.2	91.6	0.436	0.408	0.249	0.348	0.0015

R_f 92.2
Fidelity index R_f

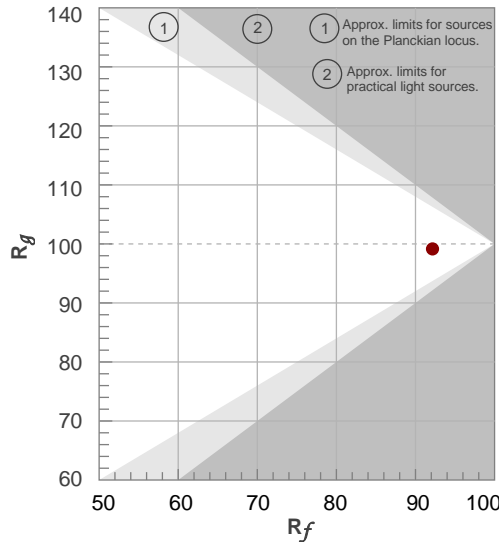
R_g 99.2
Gammut index R_g

TM30: 92.2

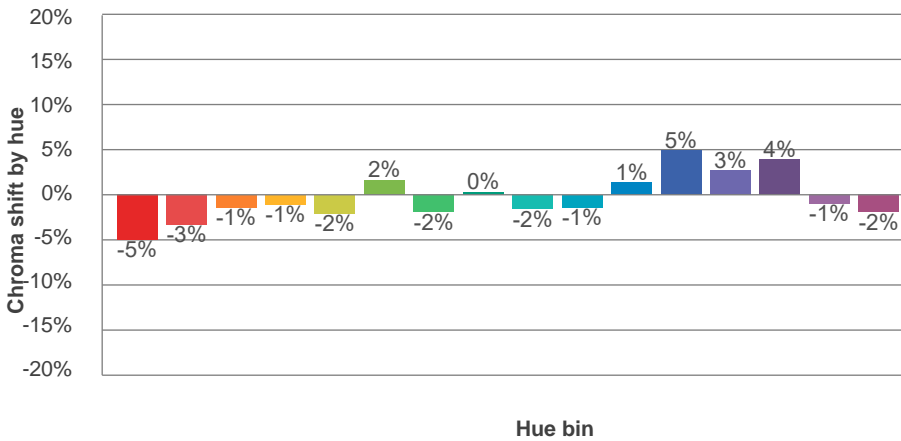
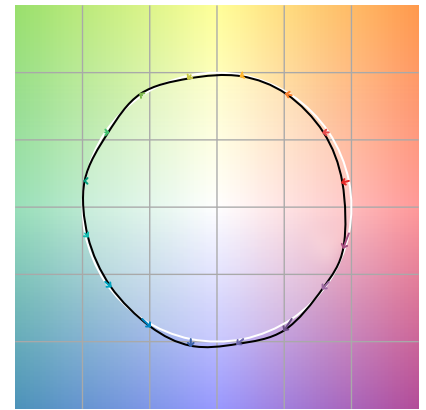
TM-30Color



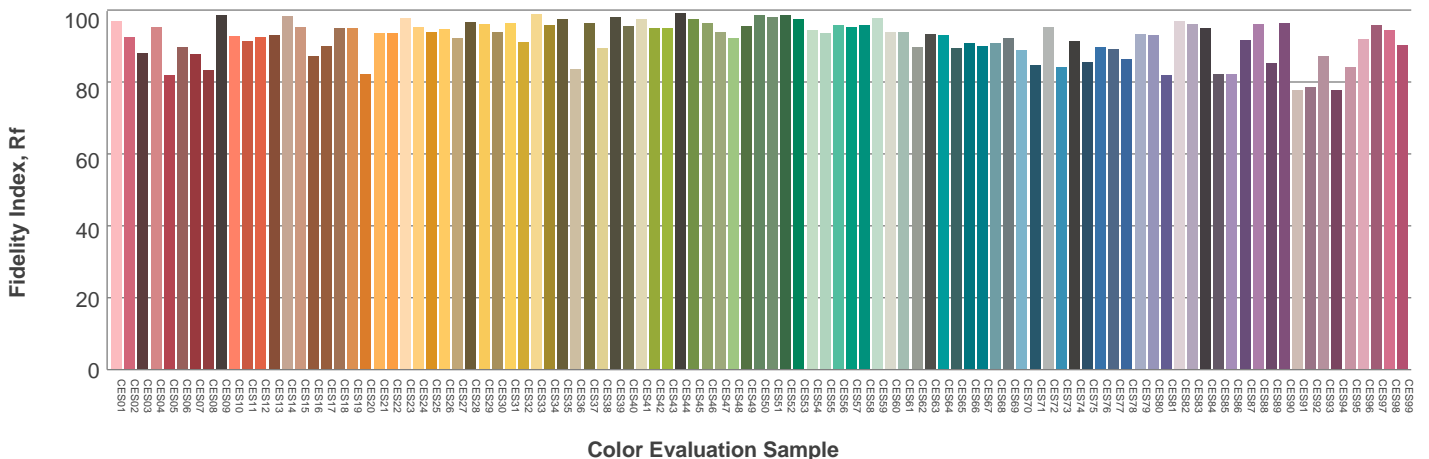
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



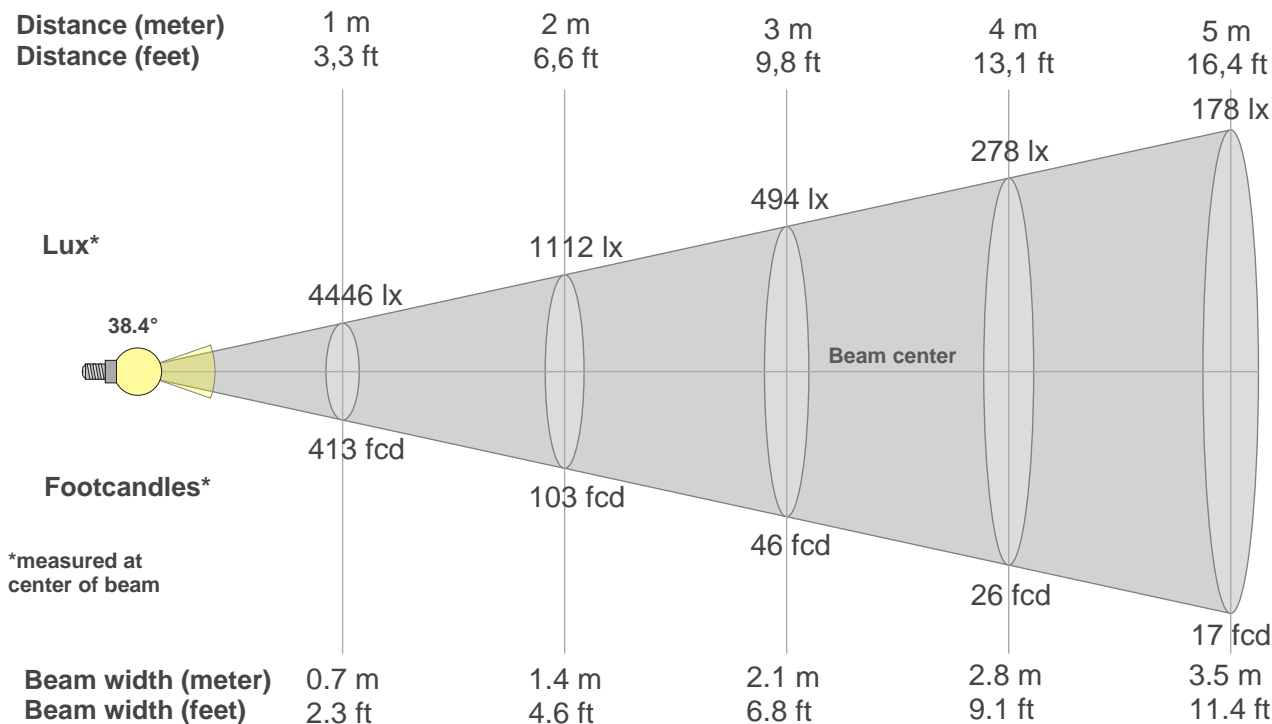
Color vector graphics



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
4446lx	1112lx	494lx	278lx	178lx	124lx	91lx	69lx	55lx	44lx	37lx	31lx	26lx	23lx	20lx	17lx	15lx	14lx	12lx	11lx
413.1fcd	103.3fcd	45.9fcd	25.8fcd	16.5fcd	11.5fcd	8.4fcd	6.5fcd	5.1fcd	4.1fcd	3.4fcd	2.9fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd

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°
4446	4435	4371	4254	4086	3873	3602	3270	2888	2480	2068	1638	1185	745	376	126	52	27	18	14
100%	100%	98%	96%	92%	87%	81%	74%	65%	56%	47%	37%	27%	17%	8%	3%	1%	1%	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°
4446	4437	4382	4266	4101	3884	3609	3274	2883	2470	2059	1623	1174	745	382	136	53	26	17	13
100%	100%	99%	96%	92%	87%	81%	74%	65%	56%	46%	36%	26%	17%	9%	3%	1%	1%	0%	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°
4446	4427	4352	4236	4087	3879	3610	3278	2892	2477	2069	1648	1192	760	397	150	45	22	17	13
100%	100%	98%	95%	92%	87%	81%	74%	65%	56%	47%	37%	27%	17%	9%	3%	1%	0%	0%	0%

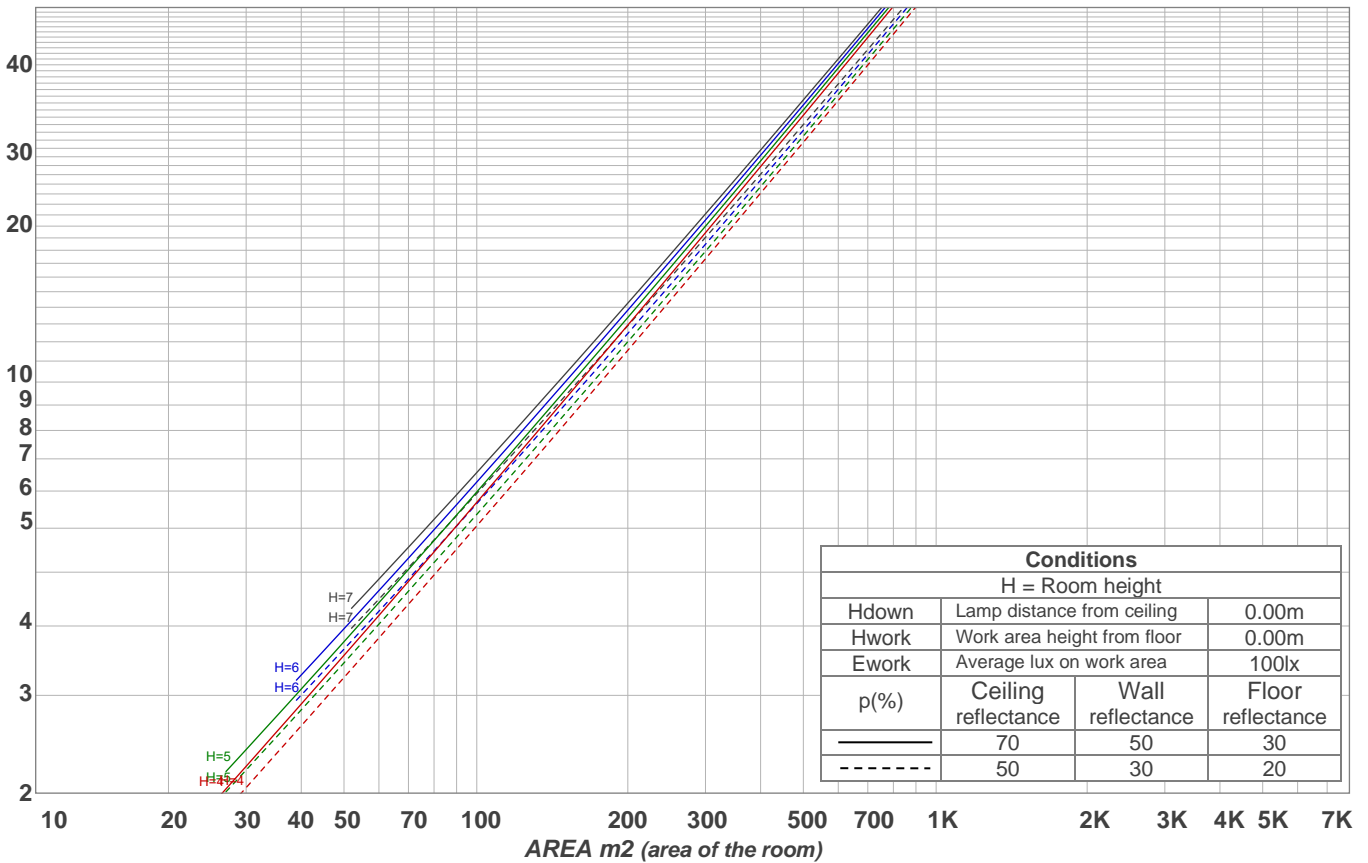
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4446	4395	4315	4201	4050	3856	3602	3271	2885	2473	2056	1636	1186	756	393	152	46	21	16	12
100%	99%	97%	94%	91%	87%	81%	74%	65%	56%	46%	37%	27%	17%	9%	3%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38.4°	55.2°	61°	99.4%	99.1%

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	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96	96	96	96
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92	92	92	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88	88	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	85
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82	82	82
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79	79	79	79
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	76
8	90	83	78	75	89	82	78	75	81	78	75	81	77	75	80	77	74	73	73	73	73
9	87	80	76	73	86	80	75	72	79	75	72	78	74	72	77	74	72	71	71	71	71
10	85	77	73	70	84	77	73	70	76	72	70	76	72	70	75	72	69	68	68	68	68

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
397 lm	834 lm	436 lm	19.5 lm	4.87 lm	2.99 lm	3.30 lm	3.40 lm	3.89 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