

Light efficiency:



Output: 1657 lm

Light quality:

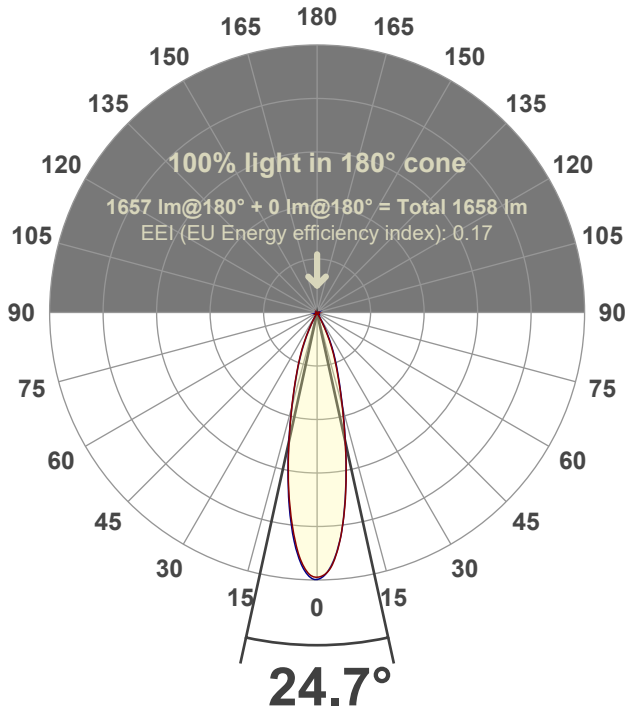


Peak: 7318 cd

Power: 20.7 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Regress Square Fixed Downlight-CZ20 30k 24° Optic

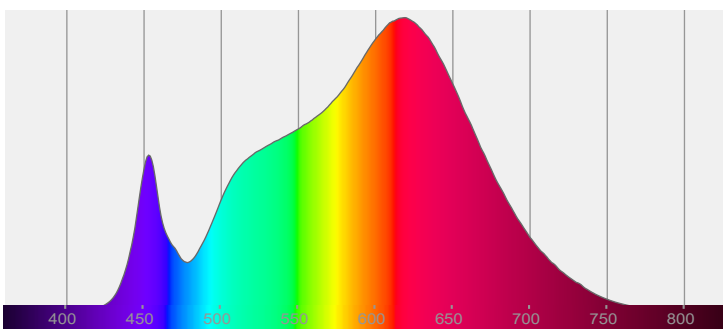
Date and time:

6/30/2022 9:00:48 PM

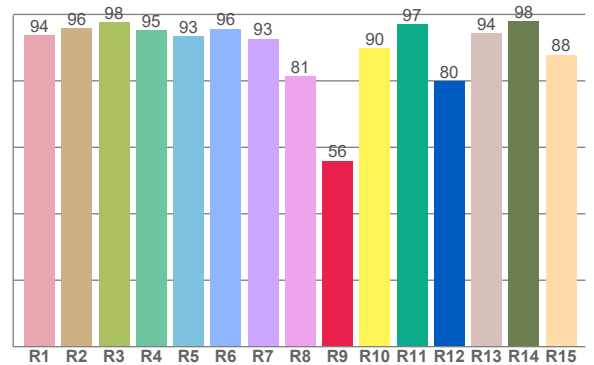
Delivered Lumens

1657

Spectra



CRI: 93.2 (R1-R8)



Color parameters

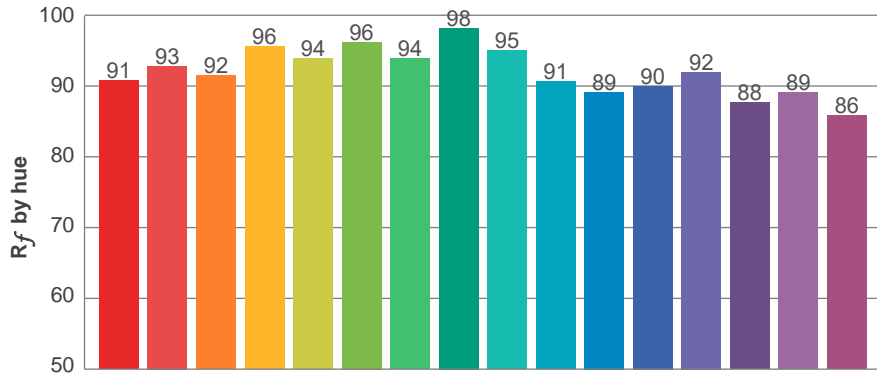
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.2	56.0	92.2	99.1	91.6	0.437	0.408	0.249	0.349	0.0016

R_f 92.2
Fidelity index R_f

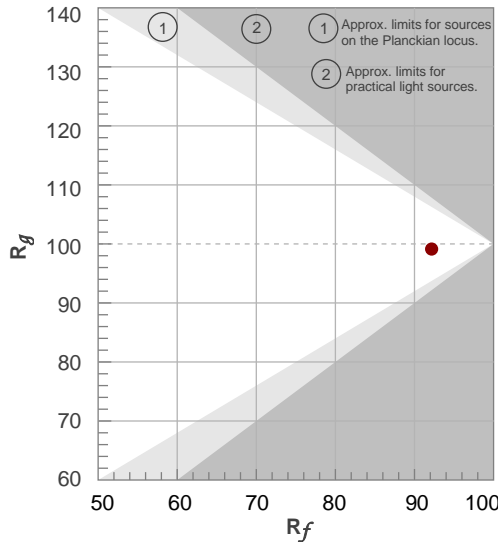
R_g 99.1
Gammut index R_g

TM30: 92.2

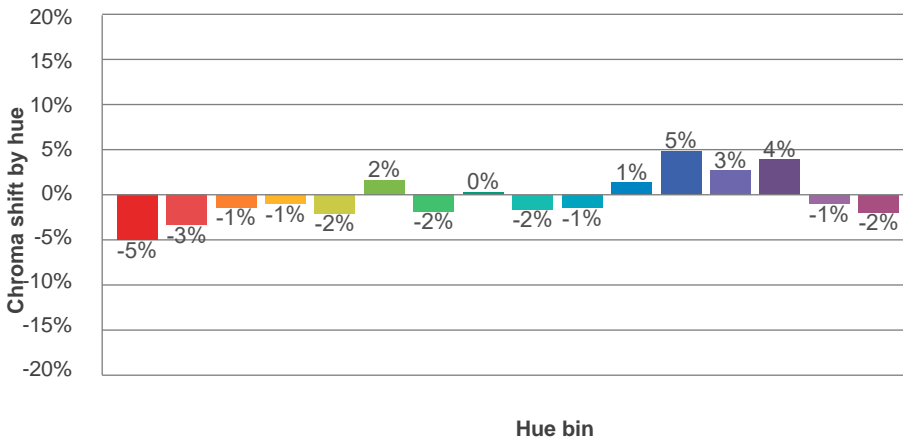
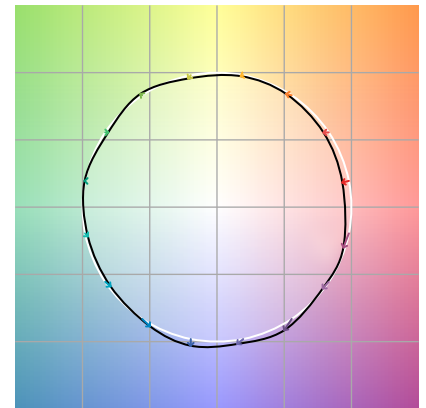
TM-30Color



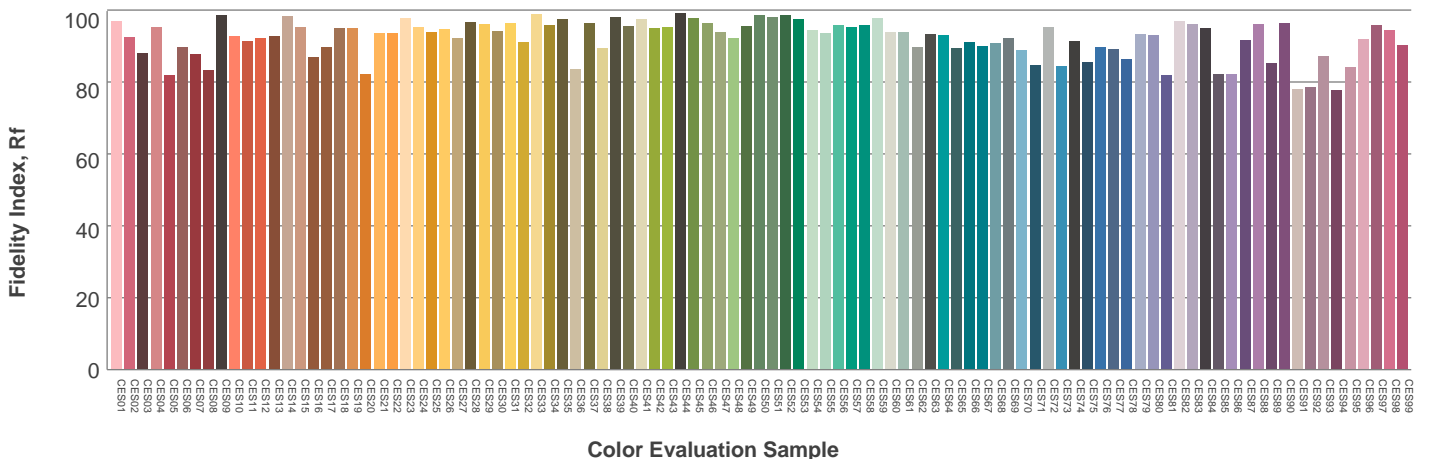
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



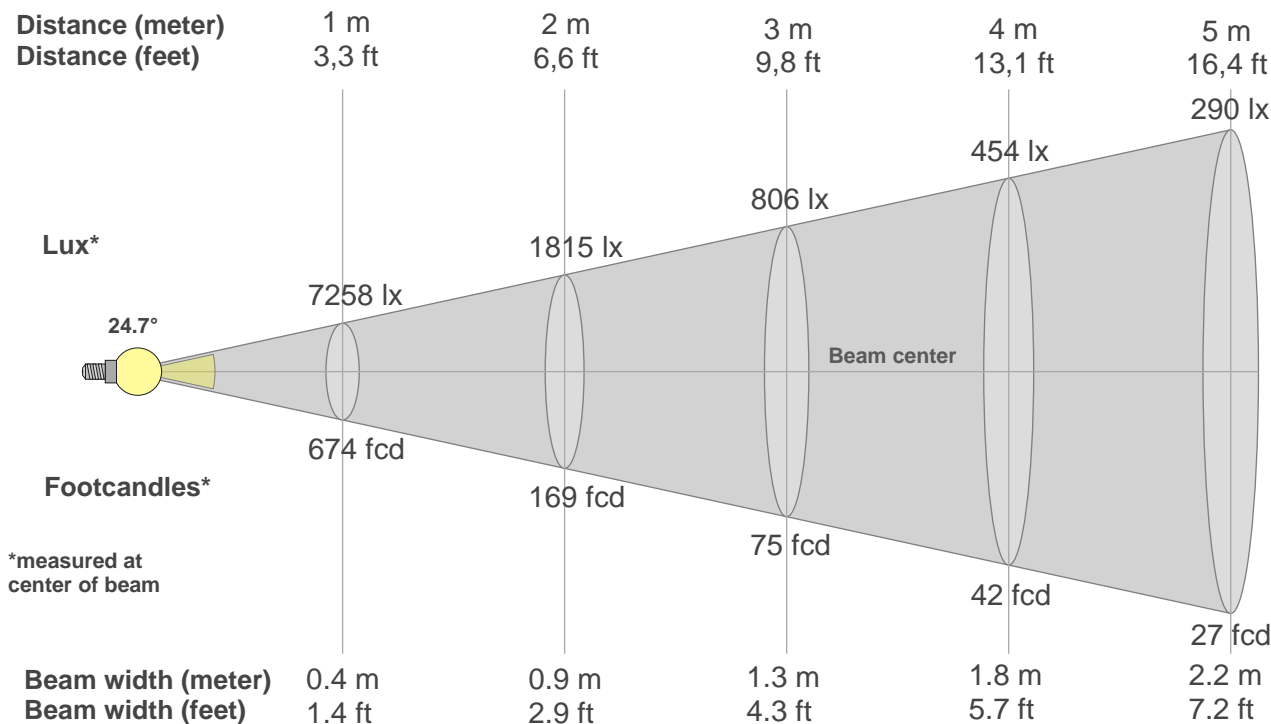
Color vector graphics



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
7258lx	1815lx	806lx	454lx	290lx	202lx	148lx	113lx	90lx	73lx	60lx	50lx	43lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx
674.3fcd	168.6fcd	74.9fcd	42.1fcd	27fcd	18.7fcd	13.8fcd	10.5fcd	8.3fcd	6.7fcd	5.6fcd	4.7fcd	4fcd	3.4fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd

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°
7258	7118	6772	6190	5438	4606	3779	3034	2406	1893	1500	1165	841	532	263	82	34	21	17	14
100%	98%	93%	85%	75%	63%	52%	42%	33%	26%	21%	16%	12%	7%	4%	1%	0%	0%	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°
7258	7146	6775	6171	5404	4580	3780	3054	2440	1962	1577	1247	938	629	357	155	48	22	17	14
100%	98%	93%	85%	74%	63%	52%	42%	34%	27%	22%	17%	13%	9%	5%	2%	1%	0%	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°
7258	7134	6746	6103	5362	4567	3764	3019	2421	1926	1519	1172	848	534	274	107	32	22	19	14
100%	98%	93%	84%	74%	63%	52%	42%	33%	27%	21%	16%	12%	7%	4%	1%	0%	0%	0%	0%

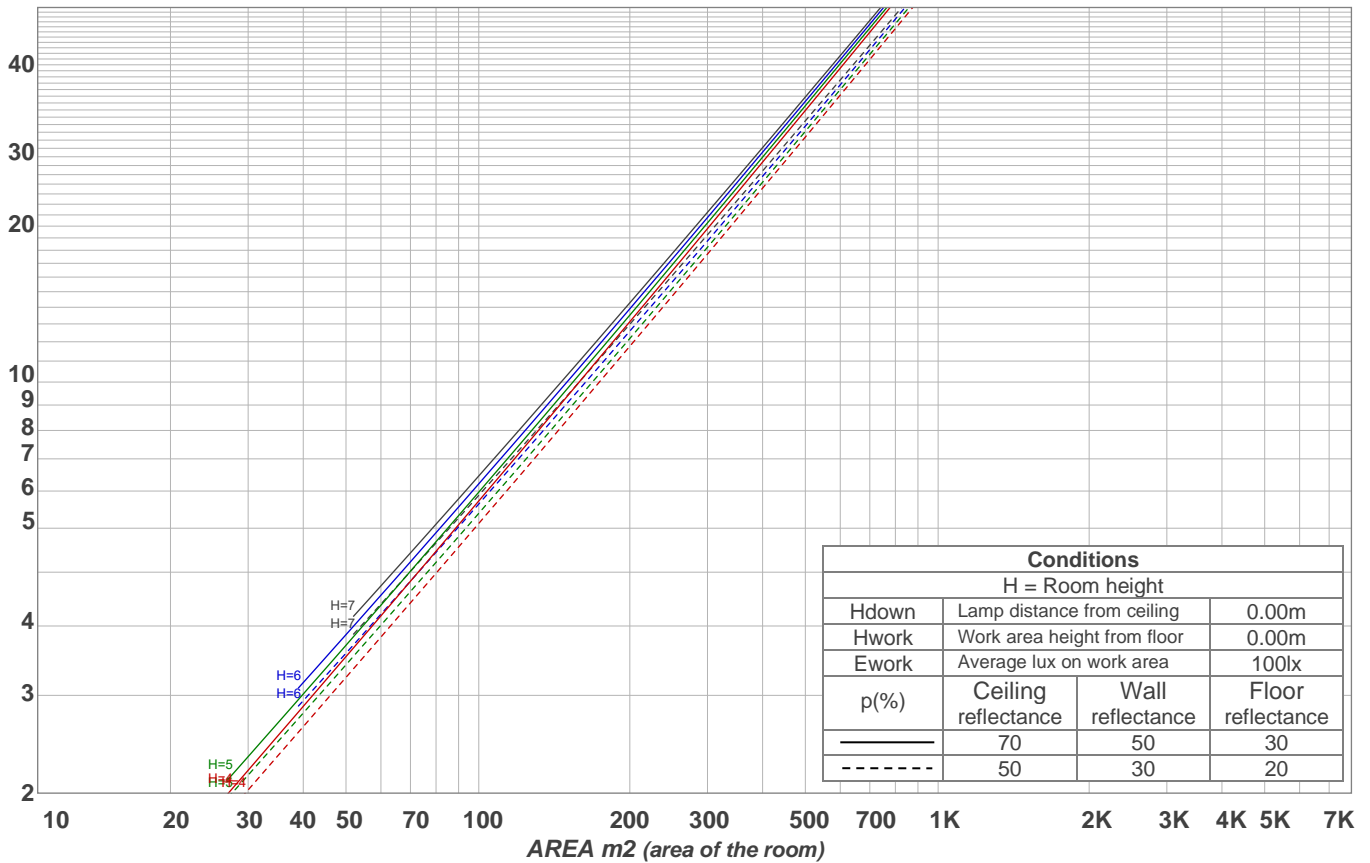
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7258	7166	6797	6214	5451	4611	3792	3036	2379	1862	1465	1094	750	444	193	59	27	20	16	13
100%	99%	94%	86%	75%	64%	52%	42%	33%	26%	20%	15%	10%	6%	3%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.7°	49.5°	57.7°	99.3%	98.9%

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	100
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	98	97	96	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	95	95	94	93	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	91	90	89	89
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	88	87	86	86
5	101	95	91	88	100	94	91	88	93	90	87	91	89	86	90	88	86	86	85	84	84
6	98	92	88	85	97	91	87	85	90	87	84	89	86	84	88	85	83	83	82	81	81
7	95	89	85	82	94	88	85	82	87	84	81	86	83	81	85	83	81	81	80	79	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	78	77	76	76
9	90	84	80	77	90	83	79	77	83	79	77	82	79	76	81	78	76	76	75	74	74
10	88	81	77	75	87	81	77	75	80	77	74	80	77	74	79	76	74	74	73	72	72

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
558 lm	753 lm	311 lm	14.4 lm	5.47 lm	3.66 lm	3.44 lm	3.50 lm	4.34 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