

Light efficiency:



Output: 1253 lm

Light quality:

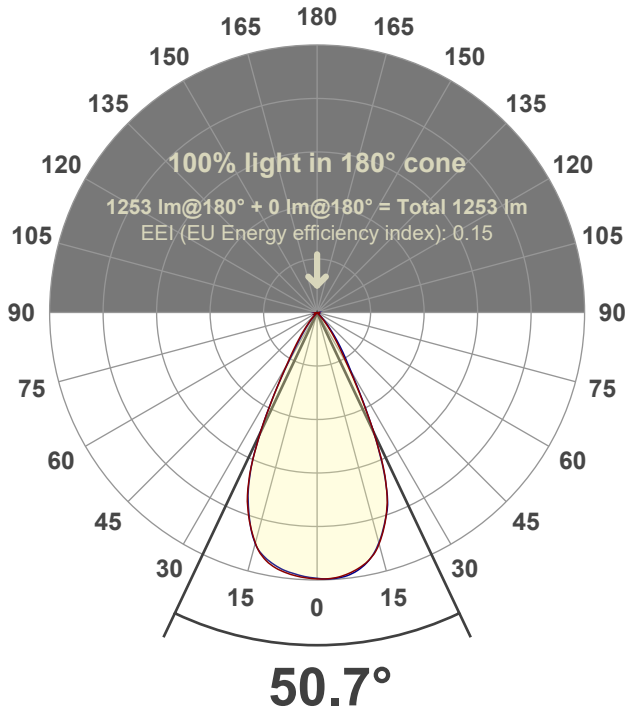


Peak: 1875 cd

Power: 14.2 W



Beam angle



Test number:

GR-F-CZ14-30k-WF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-CZ14 30k 60° Optic

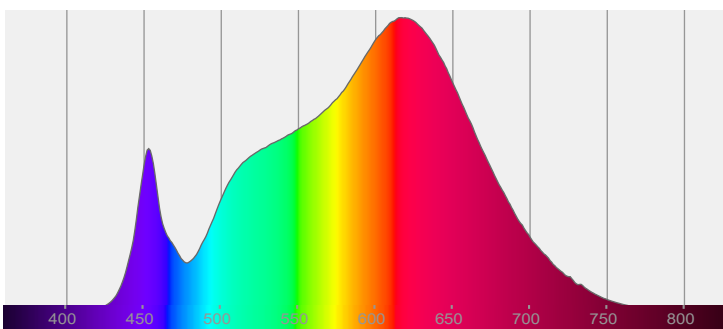
Date and time:

6/30/2022 7:32:25 PM

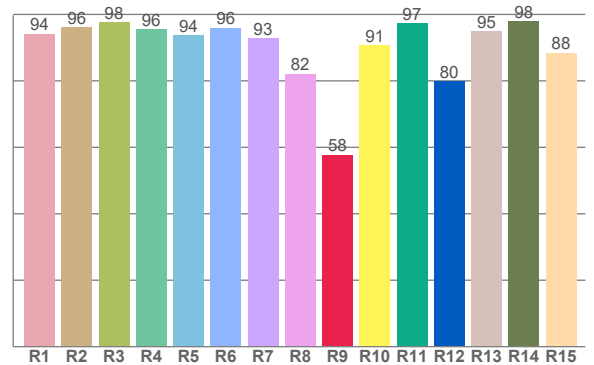
Delivered Lumens

1253

Spectra



CRI: 93.6 (R1-R8)



Color parameters

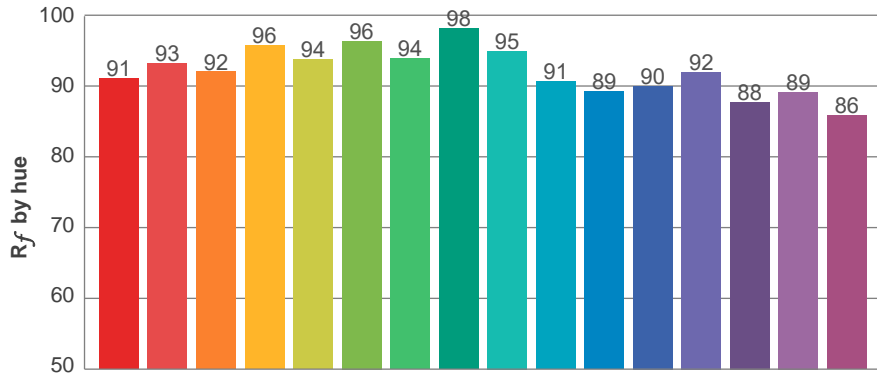
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.6	57.7	92.3	99.2	91.9	0.437	0.408	0.249	0.349	0.0015

R_f 92.3
Fidelity index R_f

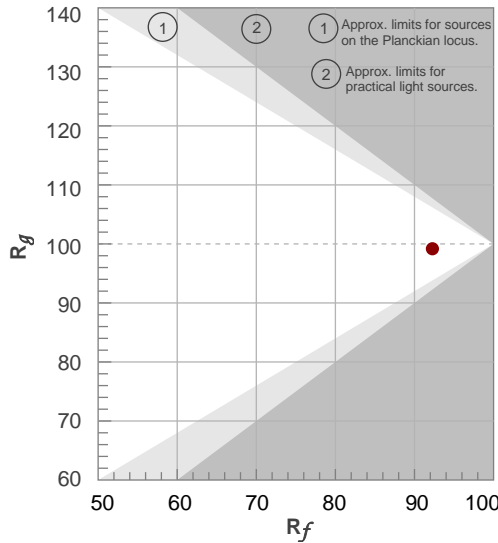
R_g 99.2
Gammut index R_g

TM30: 92.3

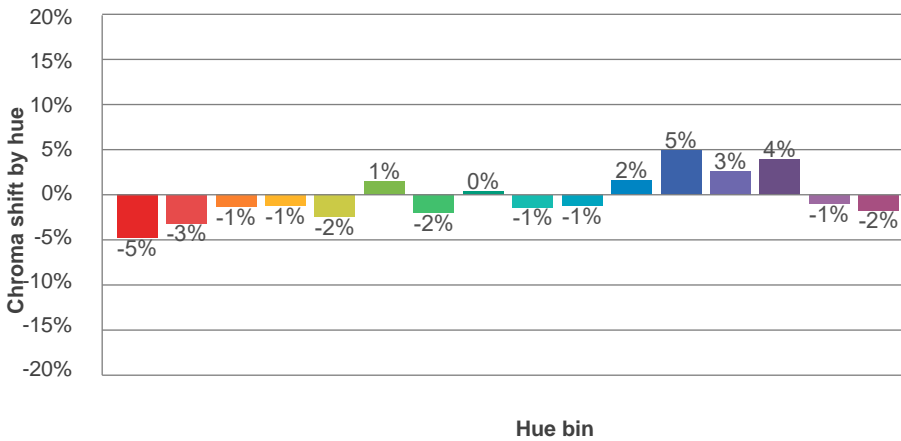
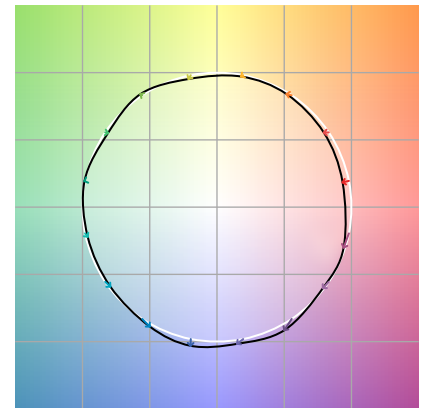
TM-30Color



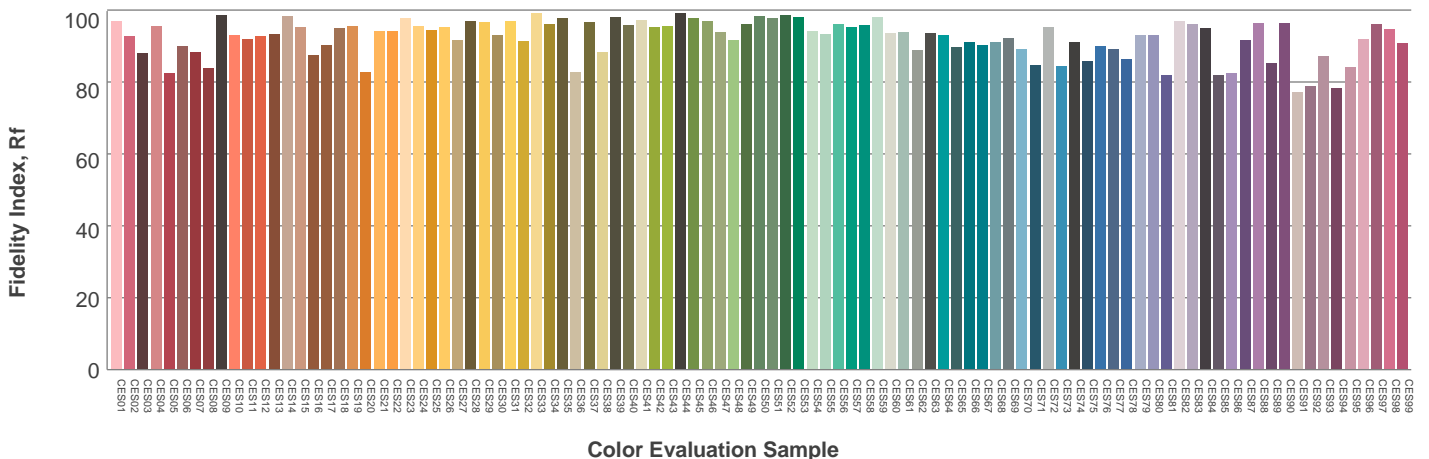
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	1%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



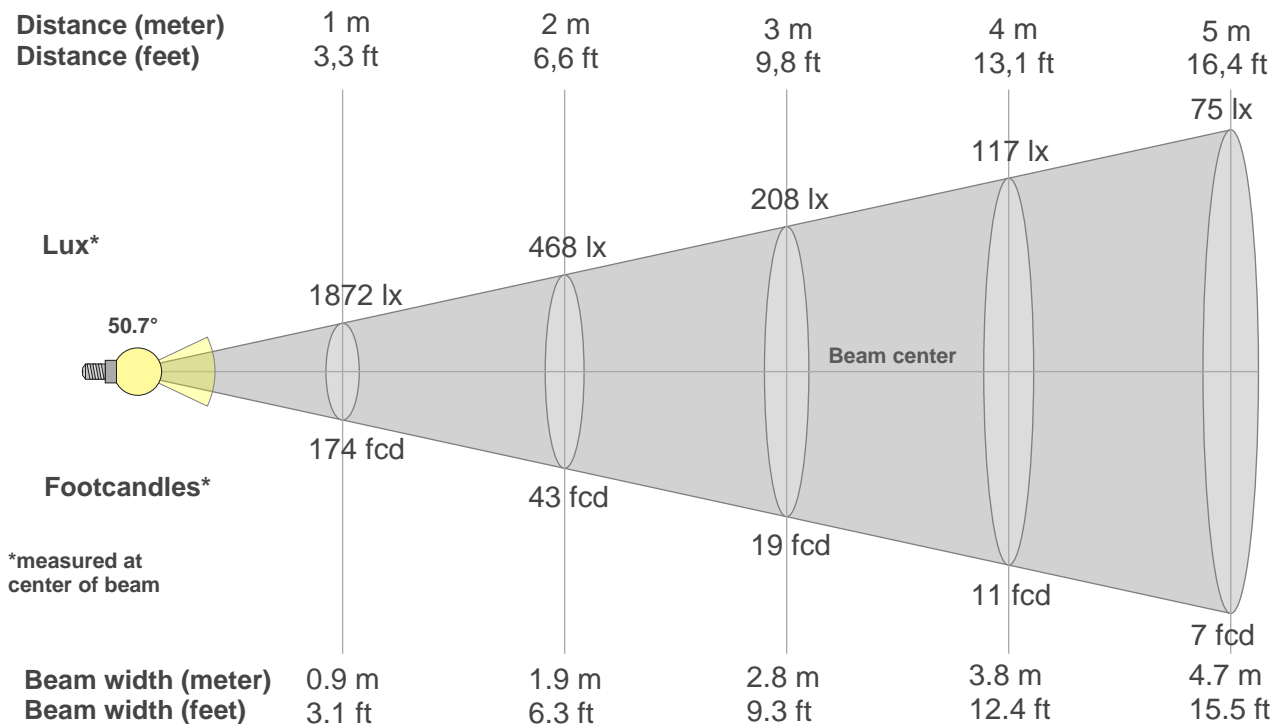
Color vector graphics



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
1872lx	468lx	208lx	117lx	75lx	52lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	5lx
173.9fcd	43.5fcd	19.3fcd	10.9fcd	7fcd	4.8fcd	3.5fcd	2.7fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1872	1875	1869	1856	1837	1811	1775	1723	1644	1550	1438	1291	1095	862	629	445	332	249	185	133
100%	100%	100%	99%	98%	97%	95%	92%	88%	83%	77%	69%	59%	46%	34%	24%	18%	13%	10%	7%

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°
1872	1875	1874	1866	1847	1818	1774	1715	1638	1546	1446	1287	1085	864	654	485	383	302	232	173
100%	100%	100%	100%	99%	97%	95%	92%	87%	83%	77%	69%	58%	46%	35%	26%	20%	16%	12%	9%

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°
1872	1869	1861	1849	1833	1809	1773	1719	1636	1542	1430	1284	1092	862	630	450	337	252	187	135
100%	100%	99%	99%	98%	97%	95%	92%	87%	82%	76%	69%	58%	46%	34%	24%	18%	13%	10%	7%

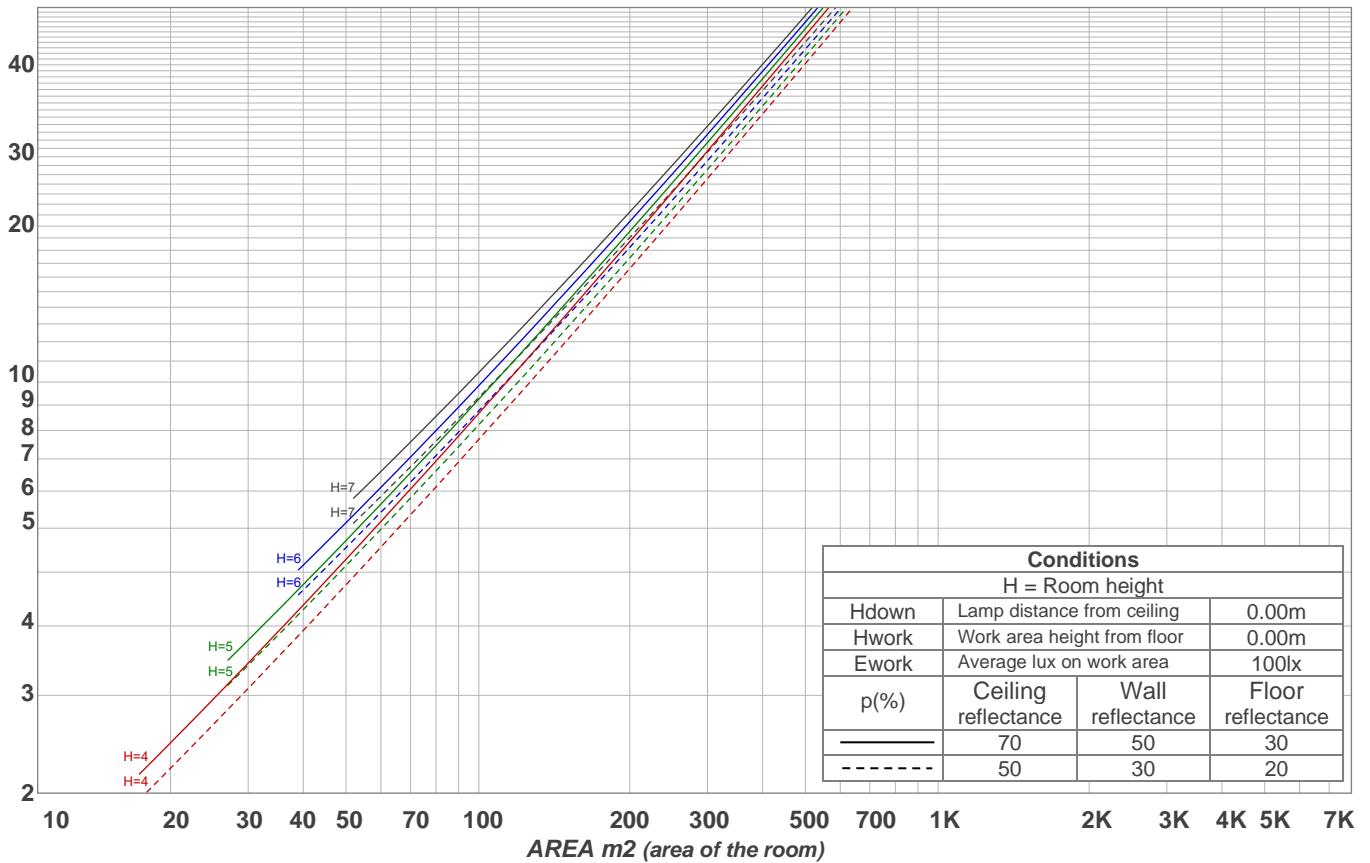
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1872	1862	1851	1837	1820	1794	1762	1715	1638	1536	1417	1275	1092	860	626	429	293	204	142	99
100%	99%	99%	98%	97%	96%	94%	92%	88%	82%	76%	68%	58%	46%	33%	23%	16%	11%	8%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50.7°	71.9°	86.4°	99.3%	98.6%

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	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94	94	94	
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84	84	84	
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	79	79	79	
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75	75	75	
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71	71	71	
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68	68	68	
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64	64	64	
9	80	72	67	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61	61	61	
10	77	69	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58	58	58	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
176 lm	465 lm	431 lm	142 lm	27.5 lm	3.01 lm	2.66 lm	2.51 lm	2.93 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