

Light efficiency:



Output: 1274 lm

Light quality:

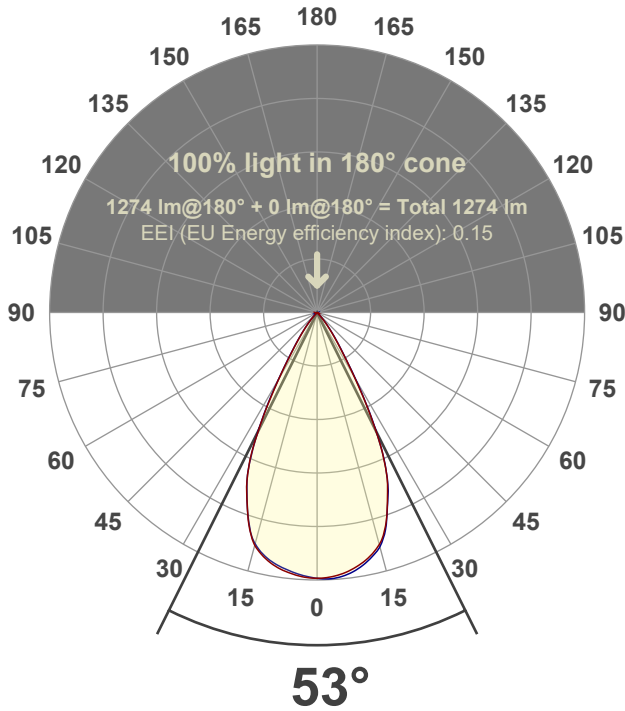


Peak: 1810 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

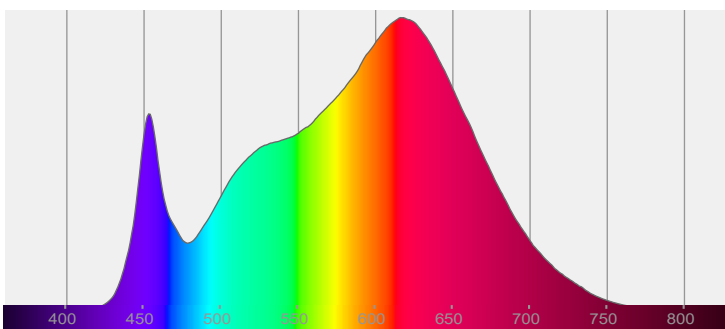
Date and time:

3/9/2022 4:06:56 PM

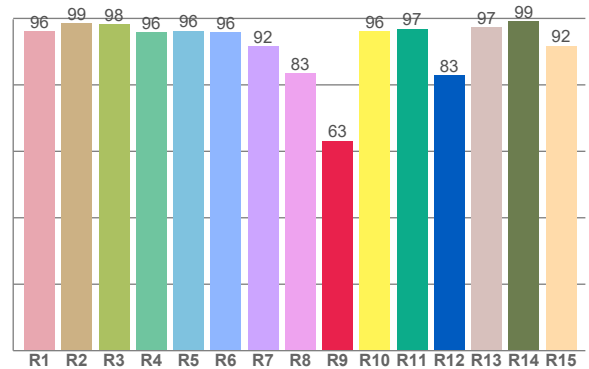
Delivered Lumens

1274

Spectra



CRI: 94.5 (R1-R8)



Color parameters

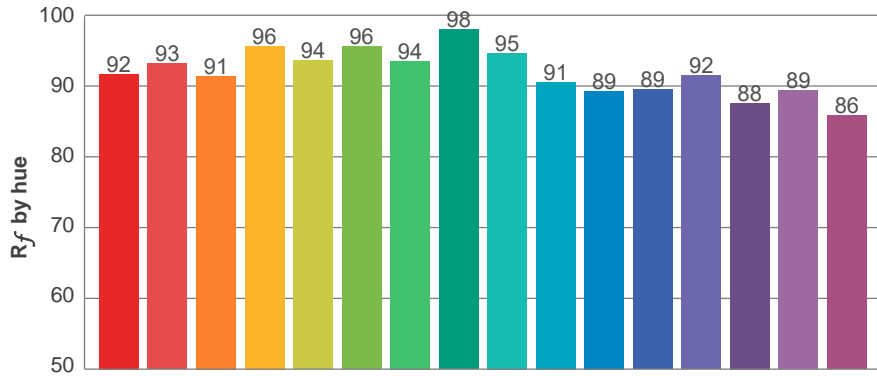
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.2	92.1	100.4	91.8	0.424	0.393	0.247	0.343	-0.0027

R_f 92.1
Fidelity index R_f

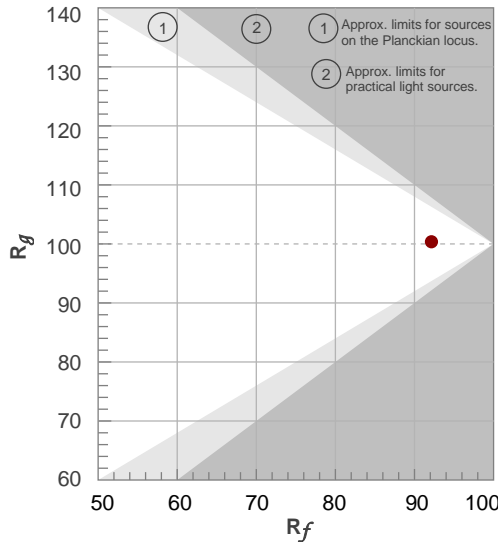
R_g 100.4
Gammut index R_g

TM30: 92.1

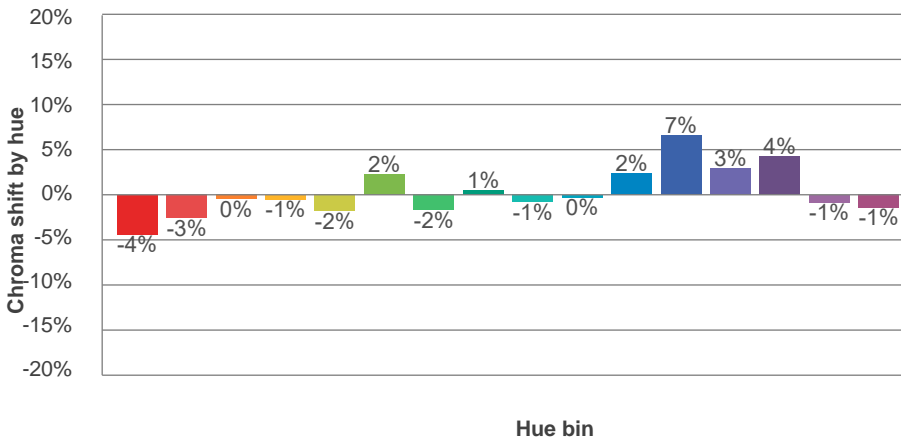
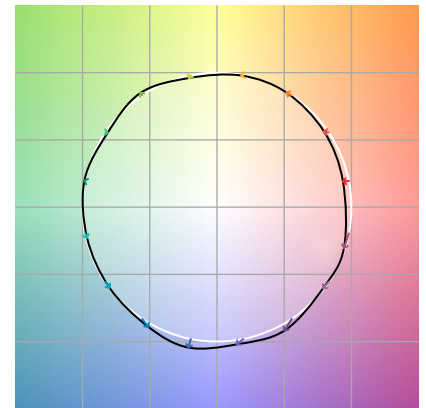
TM-30Color



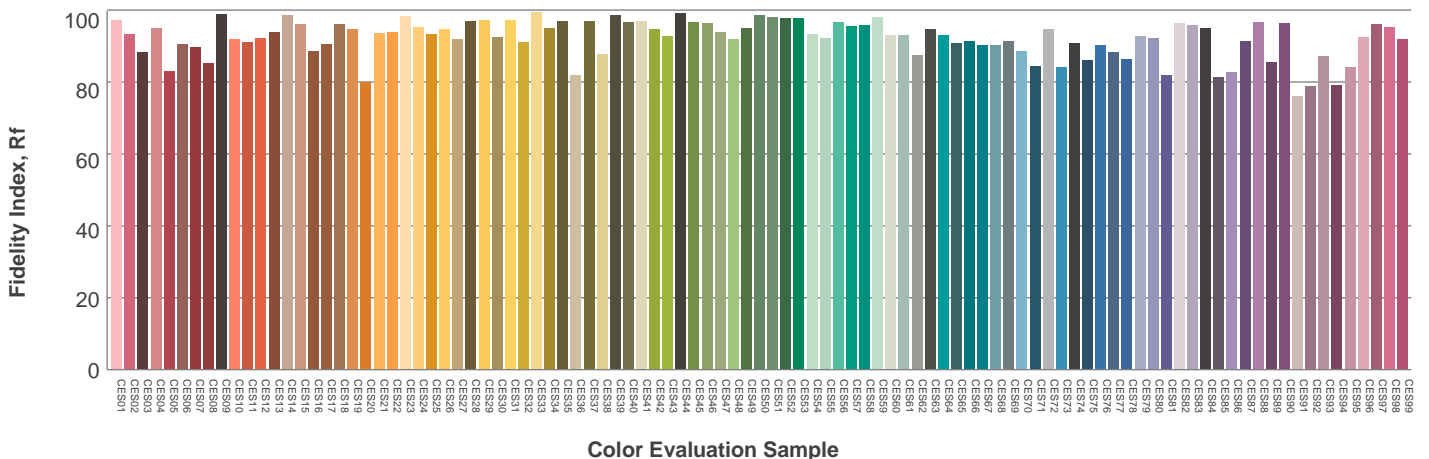
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



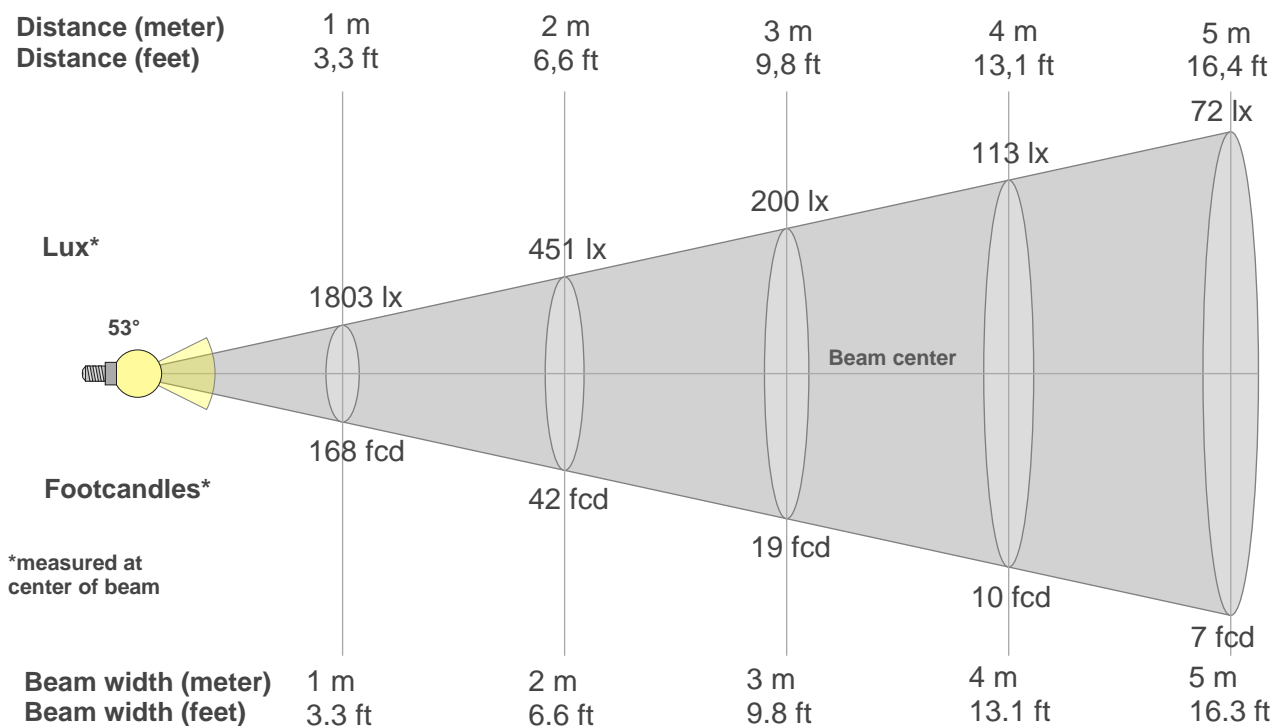
Color vector graphics



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
1803lx	451lx	200lx	113lx	72lx	50lx	37lx	28lx	22lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
167.5fcd	41.9fcd	18.6fcd	10.5fcd	6.7fcd	4.7fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.7fcd	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°
1803	1800	1792	1777	1756	1729	1697	1655	1601	1510	1396	1276	1136	955	735	531	374	264	190	133
100%	100%	99%	99%	97%	96%	94%	92%	89%	84%	77%	71%	63%	53%	41%	29%	21%	15%	11%	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°
1803	1808	1805	1794	1776	1748	1713	1670	1608	1518	1400	1288	1139	954	748	545	372	274	199	142
100%	100%	100%	99%	98%	97%	95%	93%	89%	84%	78%	71%	63%	53%	41%	30%	21%	15%	11%	8%

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°
1803	1800	1792	1778	1761	1736	1703	1659	1597	1506	1391	1277	1136	954	740	534	375	270	195	140
100%	100%	99%	99%	98%	96%	94%	92%	89%	84%	77%	71%	63%	53%	41%	30%	21%	15%	11%	8%

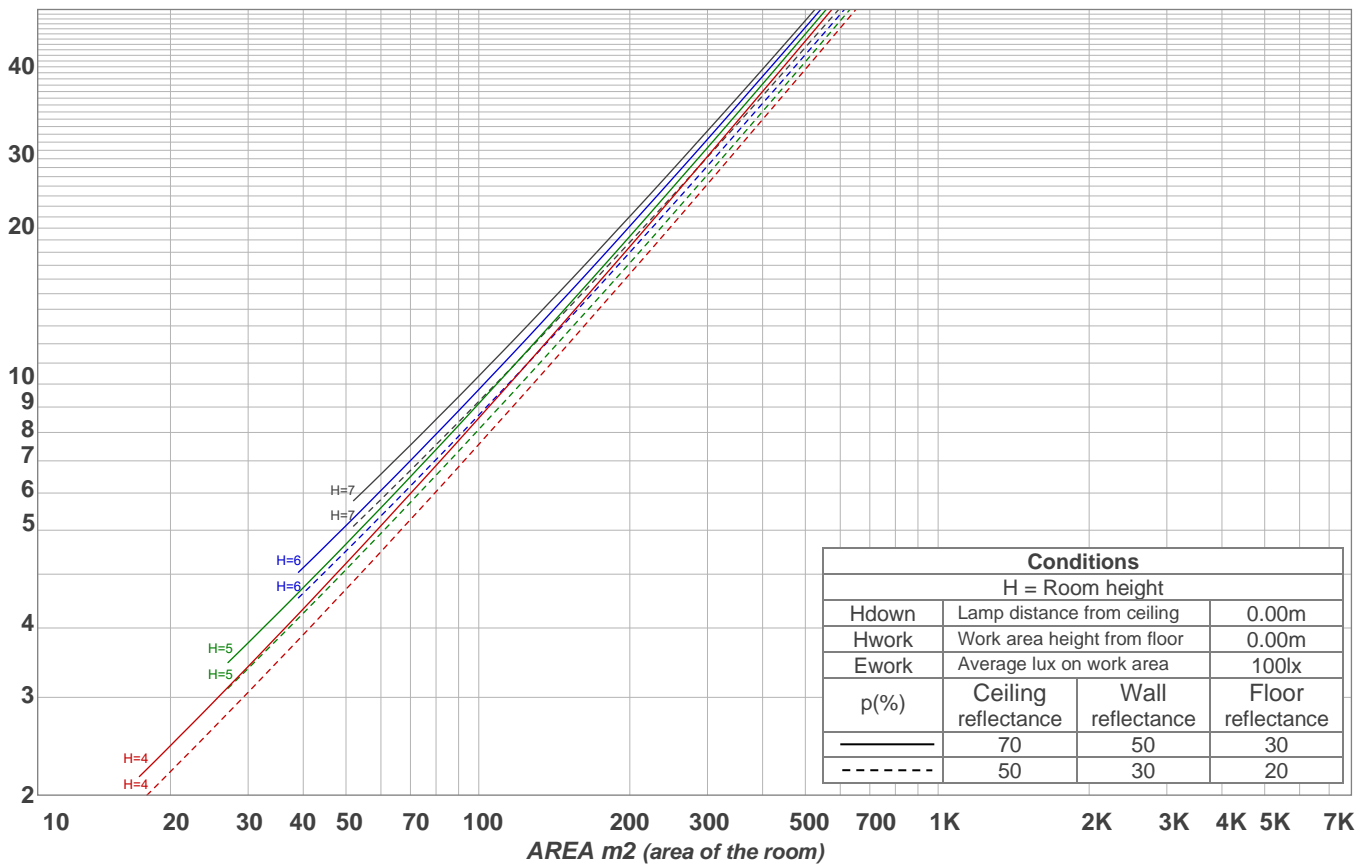
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1803	1794	1781	1764	1745	1722	1692	1651	1592	1499	1389	1271	1137	954	749	548	388	276	198	138
100%	99%	99%	98%	97%	95%	94%	92%	88%	83%	77%	70%	63%	53%	42%	30%	22%	15%	11%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53°	73°	87.2°	99.3%	98.5%

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	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	
2	109	104	101	97	107	103	99	96	99	97	94	97	94	92	94	92	90	89	89	89	
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84	84	84	
4	99	93	88	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79	79	79	
5	95	87	82	78	94	87	82	78	85	81	77	83	79	77	82	78	76	75	75	75	
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	70	70	70	
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	74	71	68	67	67	67	
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63	63	63	
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60	60	60	
10	77	68	62	59	76	67	62	59	67	62	59	66	62	58	65	61	58	57	57	57	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
169 lm	451 lm	458 lm	155 lm	28.5 lm	3.75 lm	2.91 lm	2.59 lm	3.09 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