

Light efficiency:



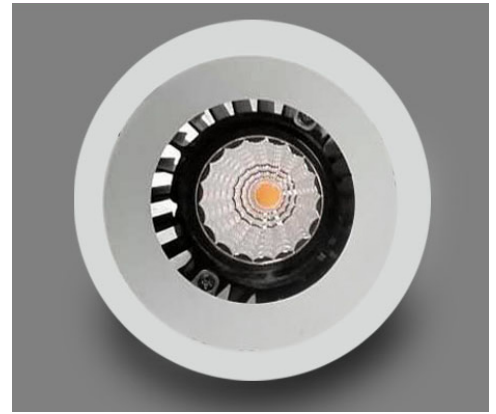
Output: 1440 lm

Light quality:

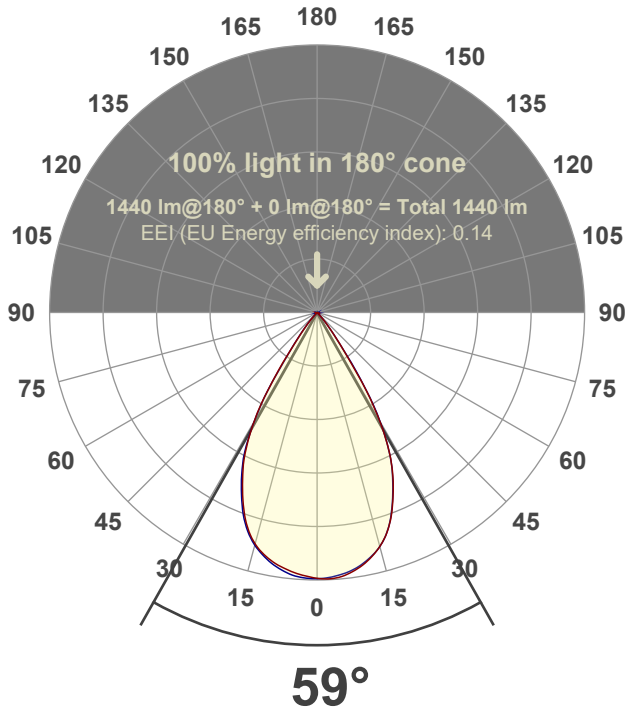


Peak: 1787 cd

Power: 14.1 W



Beam angle



Test number:

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

Luminaire Model:

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

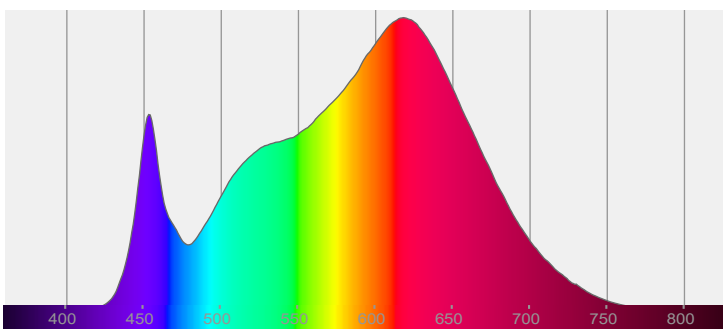
Date and time:

3/2/2022 10:43:21 PM

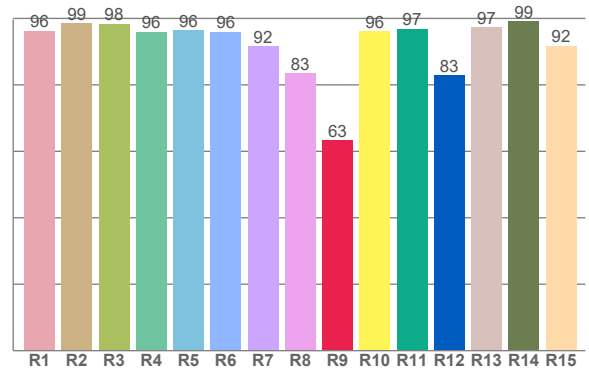
Delivered Lumens

1440

Spectra



CRI: 94.6 (R1-R8)



Color parameters

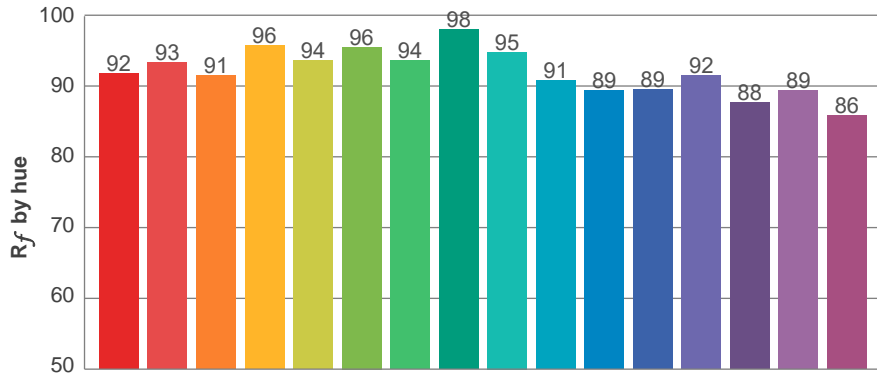
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.6	63.4	92.2	100.4	91.9	0.425	0.393	0.247	0.343	-0.0026

R_f 92.2
Fidelity index R_f

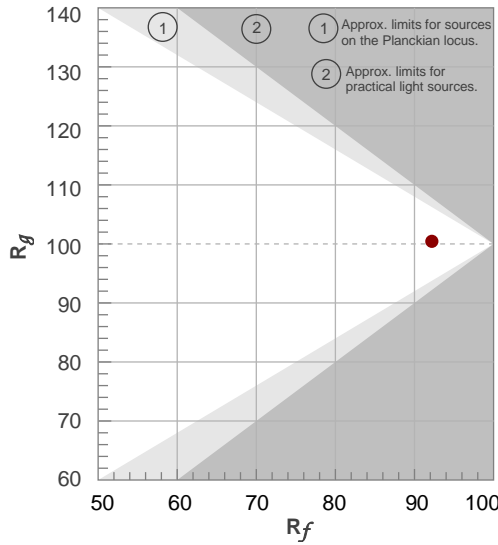
R_g 100.4
Gammut index R_g

TM30: 92.2

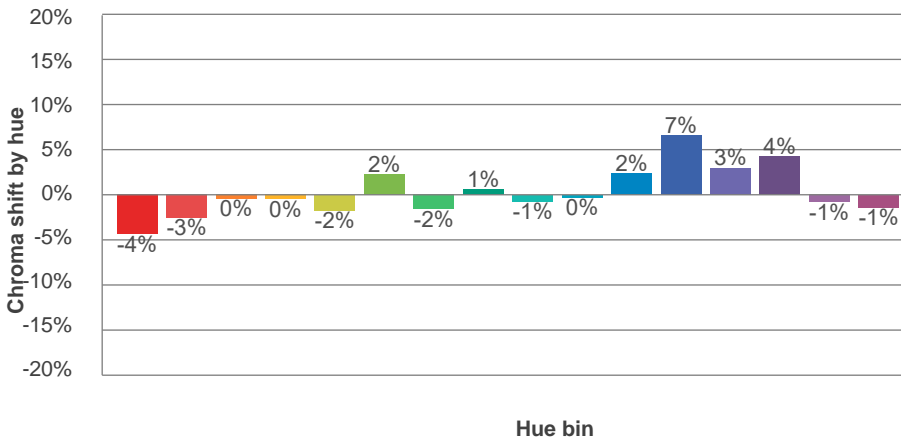
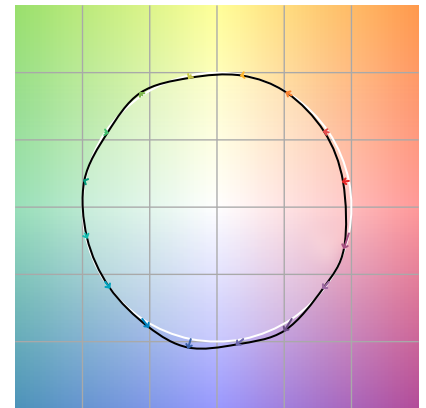
TM-30Color



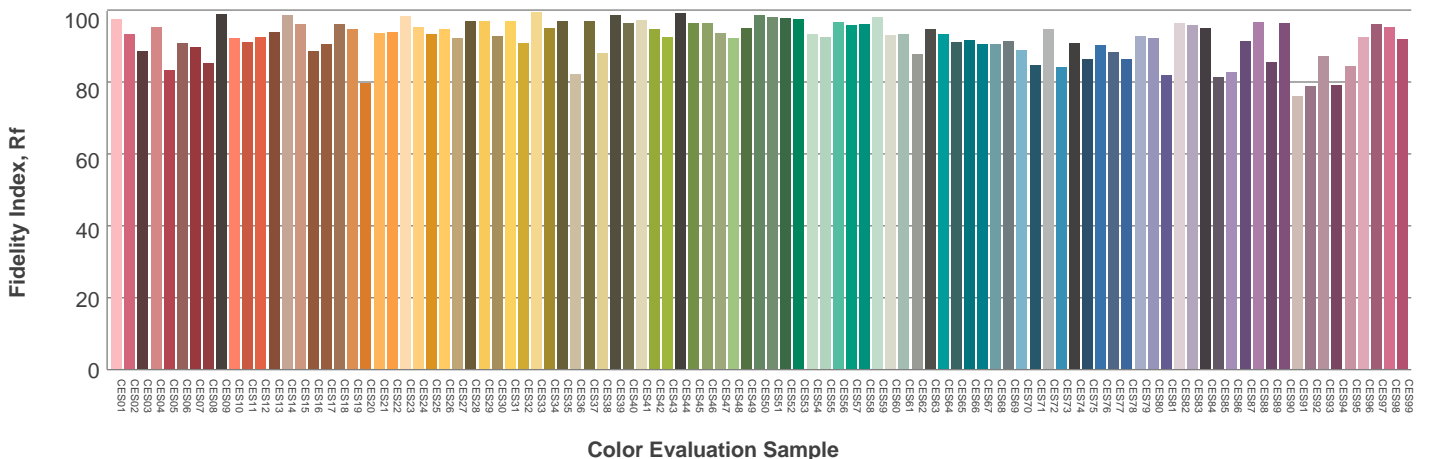
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	96	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



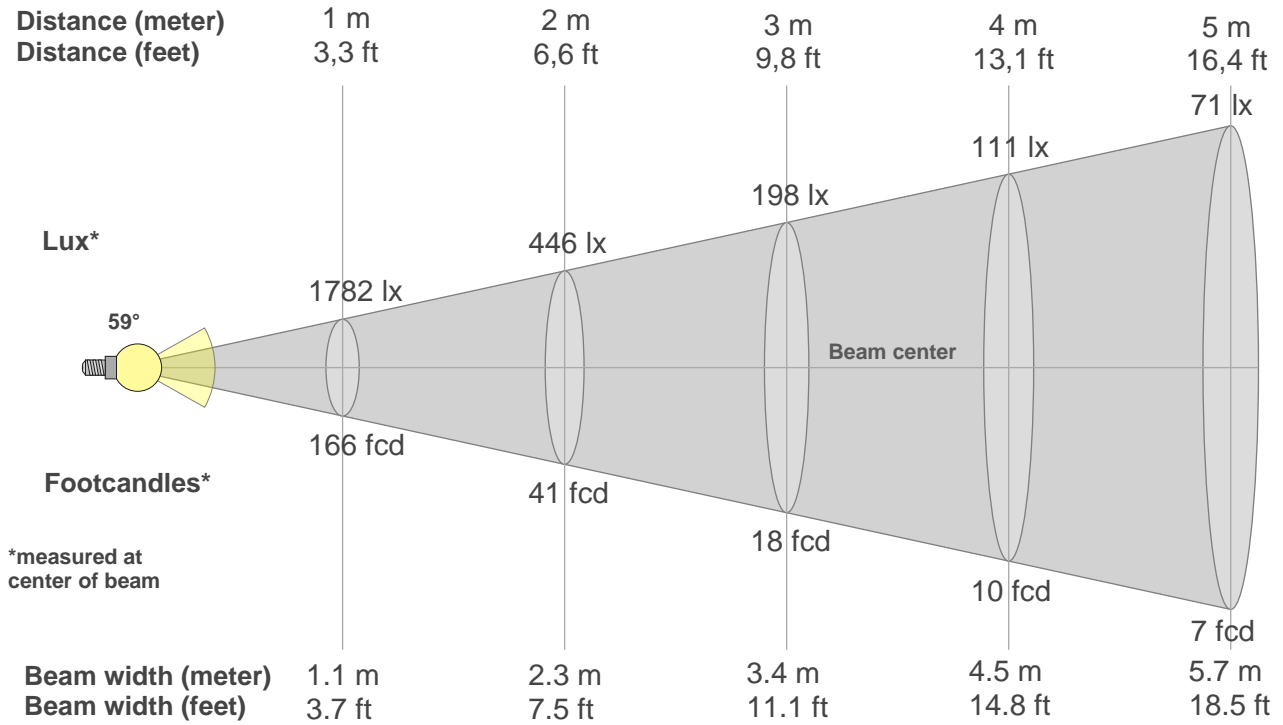
Color vector graphics



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
1782lx	446lx	198lx	111lx	71lx	50lx	36lx	28lx	22lx	18lx	15lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	4lx
165.6fcd	41.4fcd	18.4fcd	10.3fcd	6.6fcd	4.6fcd	3.4fcd	2.6fcd	2fcd	1.7fcd	1.4fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	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°
1782	1786	1783	1771	1751	1724	1689	1647	1596	1534	1455	1358	1256	1143	1009	849	656	439	279	179
100%	100%	100%	99%	98%	97%	95%	92%	90%	86%	82%	76%	70%	64%	57%	48%	37%	25%	16%	10%

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°
1782	1780	1770	1757	1739	1715	1684	1646	1596	1530	1448	1352	1250	1141	1007	849	667	457	274	174
100%	100%	99%	99%	98%	96%	94%	92%	90%	86%	81%	76%	70%	64%	56%	48%	37%	26%	15%	10%

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°
1782	1770	1758	1741	1721	1697	1667	1629	1577	1510	1428	1333	1231	1127	999	849	672	459	282	179
100%	99%	99%	98%	97%	95%	94%	91%	88%	85%	80%	75%	69%	63%	56%	48%	38%	26%	16%	10%

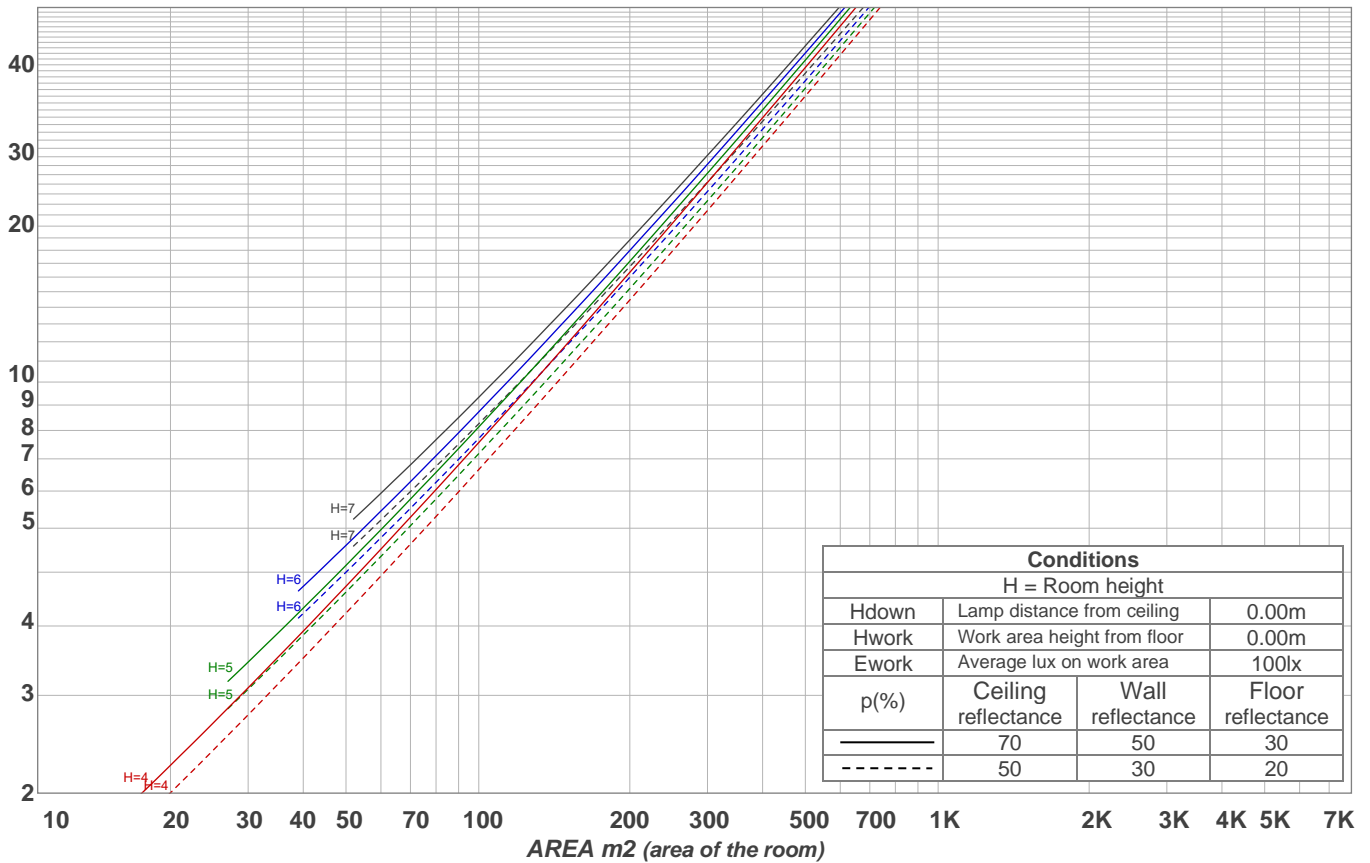
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1782	1782	1775	1762	1740	1713	1678	1637	1587	1524	1447	1351	1250	1141	1014	851	663	446	282	180
100%	100%	100%	99%	98%	96%	94%	92%	89%	86%	81%	76%	70%	64%	57%	48%	37%	25%	16%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59°	76°	87.7°	99.5%	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		
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94		
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88		
3	104	97	93	89	102	96	92	88	94	90	87	91	88	86	89	86	84	83	83		
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78	78		
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73	73		
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69	69		
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65	65		
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61	61		
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58	58		
10	75	66	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55	55		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
167 lm	451 lm	538 lm	245 lm	30.1 lm	2.22 lm	1.95 lm	2.35 lm	2.51 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