

Light efficiency:



Output: 1357 lm

Light quality:

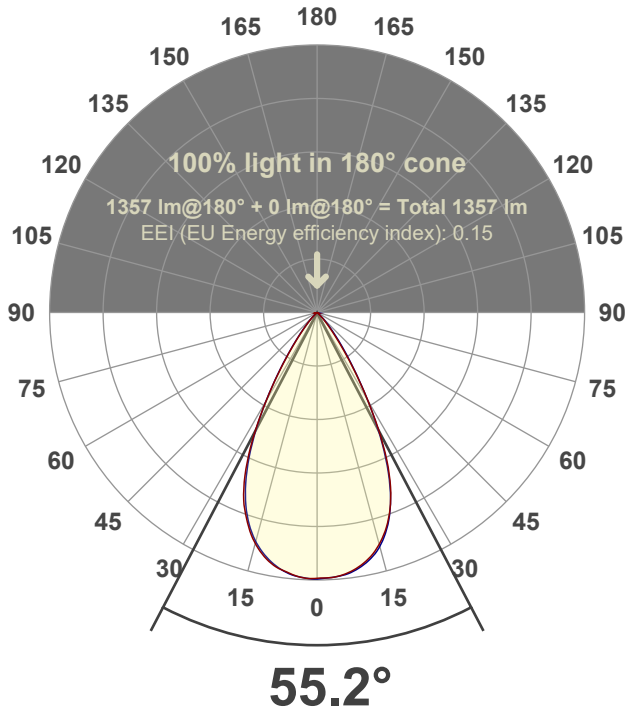


Peak: 1720 cd

Power: 14.2 W



Beam angle



Test number:

GR-O-F-CZ14-30k-WF-SQ-91A-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-CZ14 30k 60° Optic-Solite

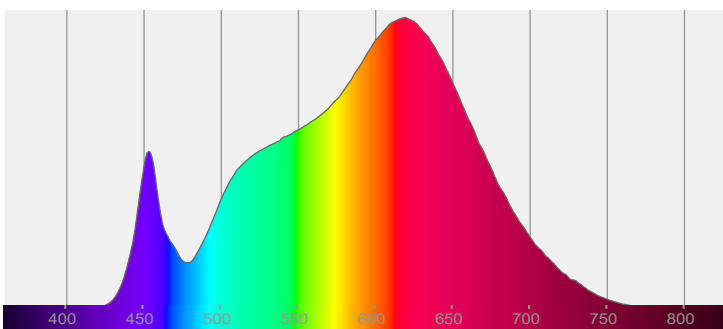
Date and time:

6/30/2022 7:35:06 PM

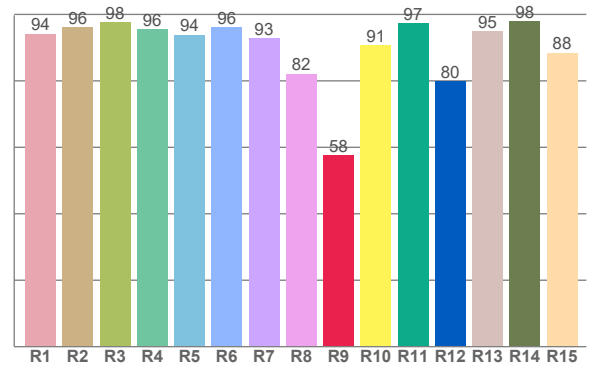
Delivered Lumens

1357

Spectra



CRI: 93.6 (R1-R8)



Color parameters

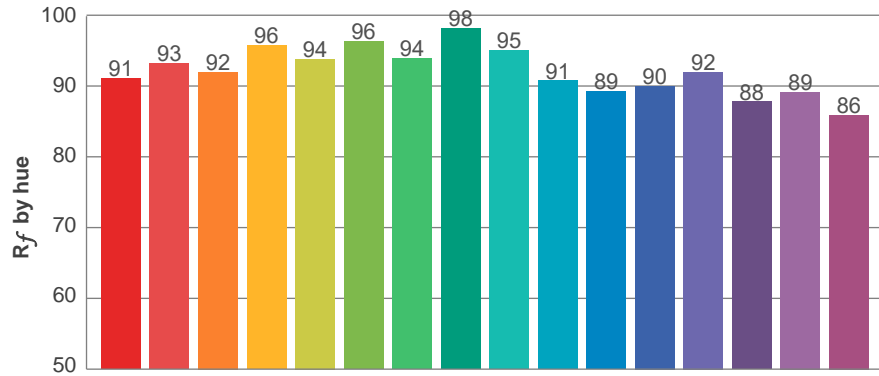
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.6	57.7	92.3	99.2	91.9	0.437	0.408	0.249	0.349	0.0015

R_f 92.3
Fidelity index R_f

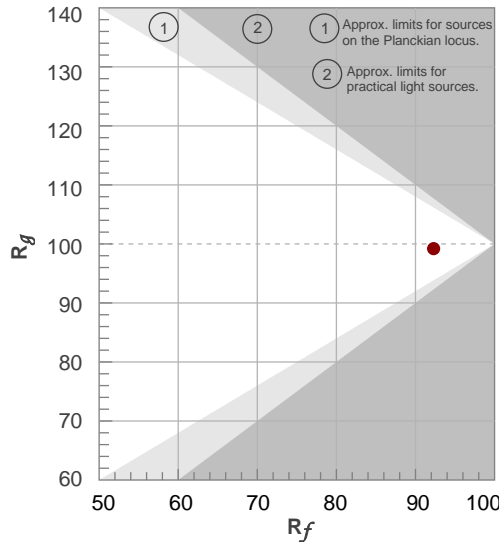
R_g 99.2
Gammut index R_g

TM30: 92.3

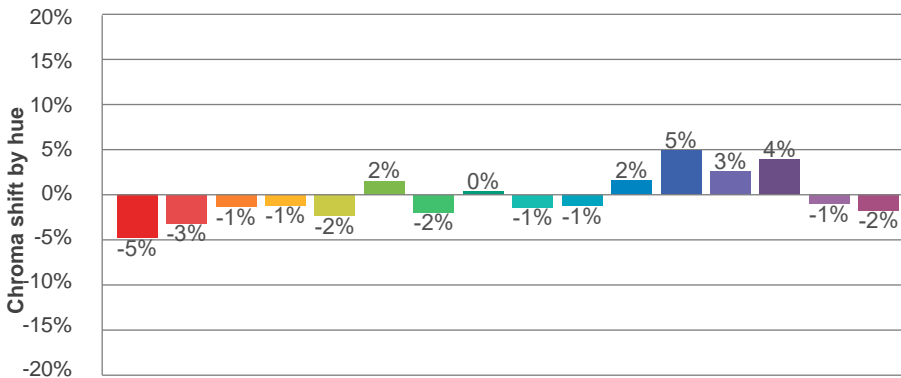
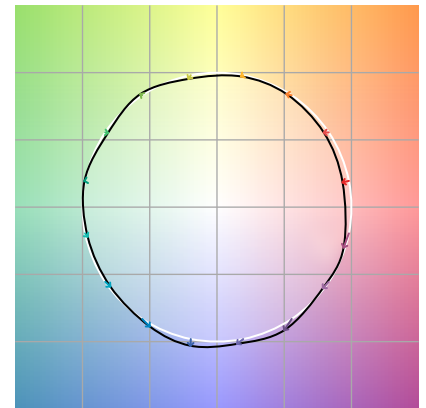
TM-30Color



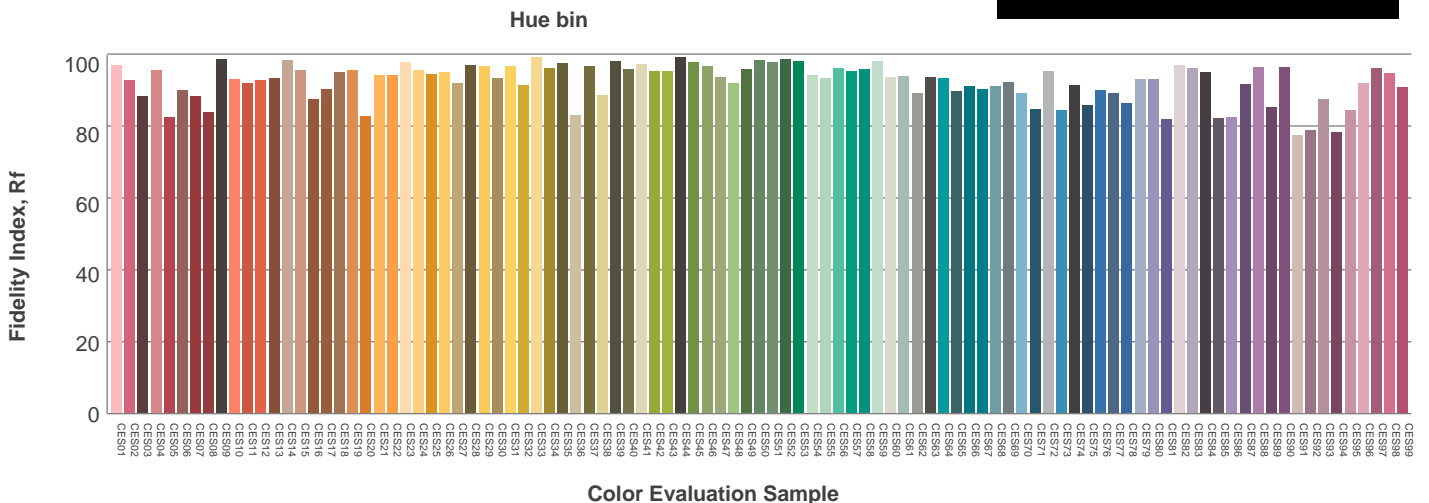
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



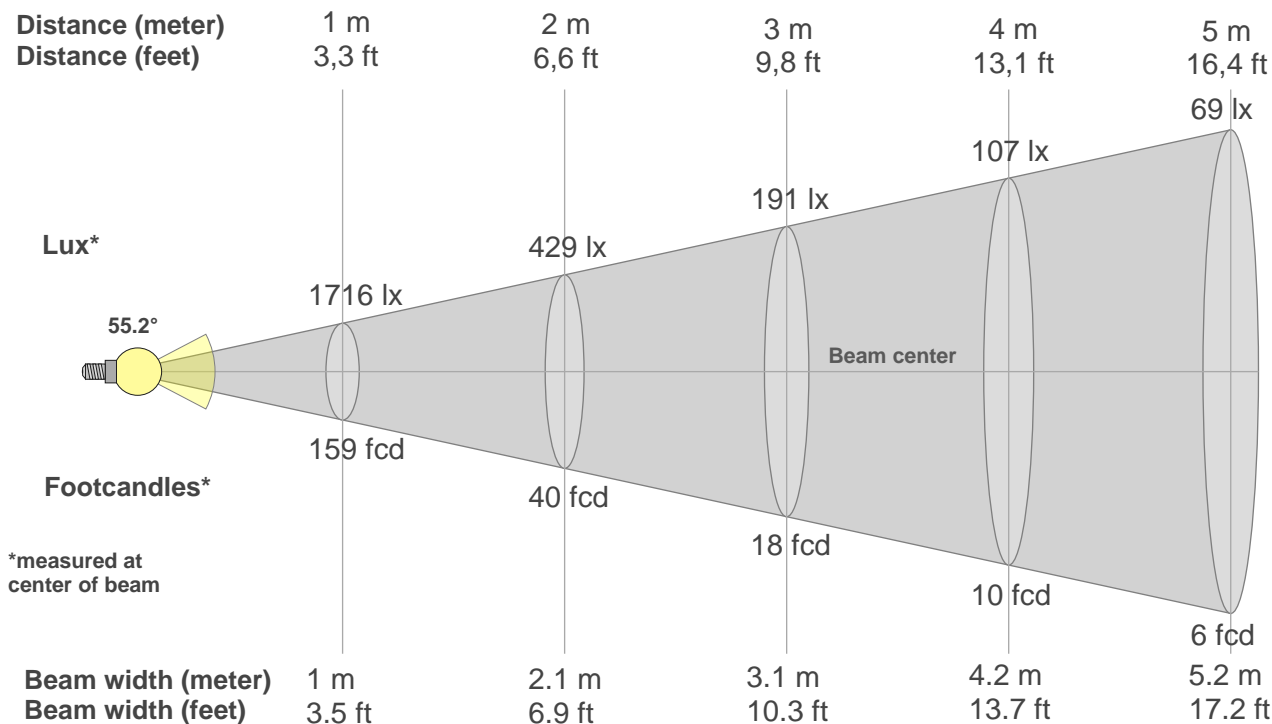
Color vector graphics



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
1716lx	429lx	191lx	107lx	69lx	48lx	35lx	27lx	21lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
159.4fcd	39.9fcd	17.7fcd	10fcd	6.4fcd	4.4fcd	3.3fcd	2.5fcd	2fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	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°
1716	1713	1708	1697	1679	1652	1618	1574	1518	1453	1369	1268	1146	1000	834	664	510	379	272	190
100%	100%	100%	99%	98%	96%	94%	92%	88%	85%	80%	74%	67%	58%	49%	39%	30%	22%	16%	11%

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°
1716	1714	1709	1701	1684	1661	1630	1589	1531	1459	1371	1264	1135	982	821	663	518	393	298	222
100%	100%	100%	99%	98%	97%	95%	93%	89%	85%	80%	74%	66%	57%	48%	39%	30%	23%	17%	13%

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°
1716	1716	1708	1692	1674	1650	1615	1570	1512	1441	1360	1266	1146	997	834	670	516	381	274	196
100%	100%	100%	99%	98%	96%	94%	91%	88%	84%	79%	74%	67%	58%	49%	39%	30%	22%	16%	11%

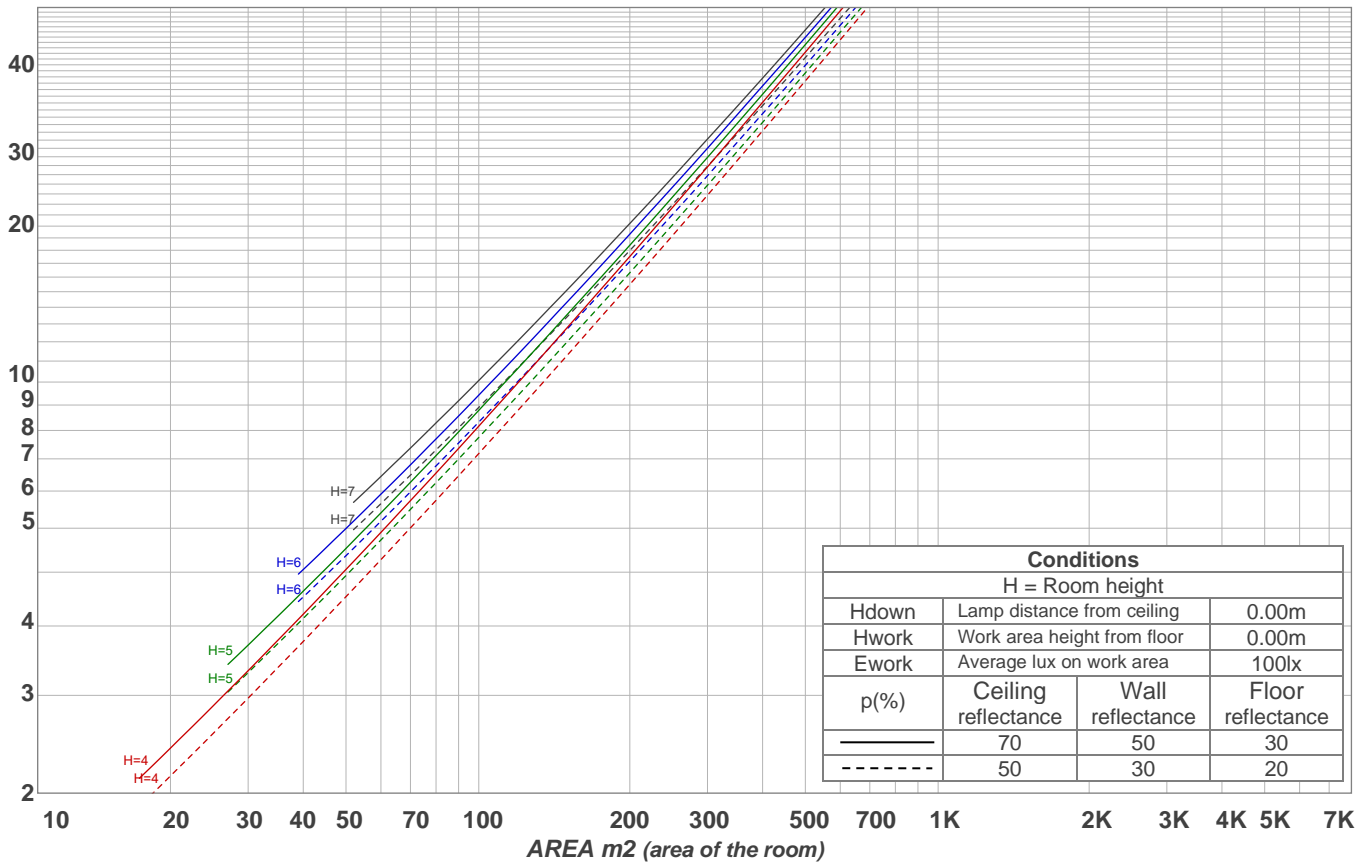
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1716	1716	1708	1695	1674	1643	1603	1556	1498	1428	1341	1235	1113	975	823	667	521	393	287	205
100%	100%	99%	99%	98%	96%	93%	91%	87%	83%	78%	72%	65%	57%	48%	39%	30%	23%	17%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55.2°	78°	93.7°	99.0%	97.0%

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	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88	88	88	
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82	82	82	
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	78	77	77	77	
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72	
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64	
8	81	72	67	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60	
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57	57	57	
10	74	65	60	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
161 lm	430 lm	474 lm	216 lm	50.9 lm	10.8 lm	5.49 lm	4.72 lm	3.30 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