

Light efficiency:



Output: 806 lm

Light quality:

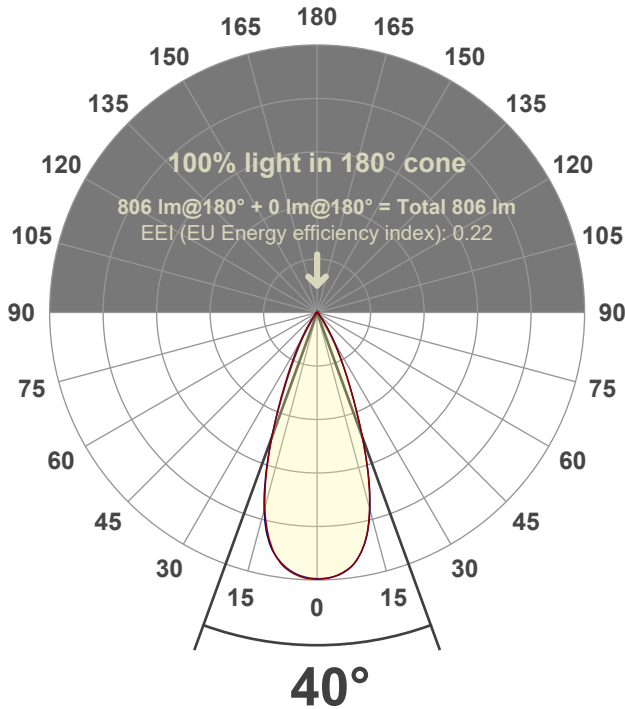


Peak: 1687 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

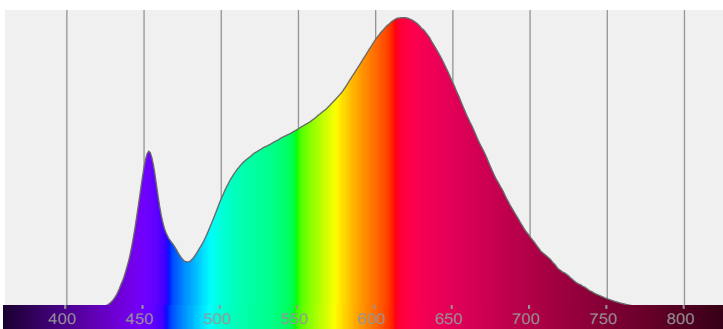
Date and time:

6/30/2022 7:40:14 PM

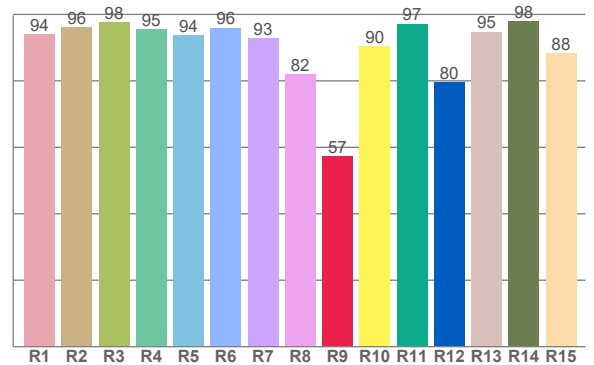
Delivered Lumens

806

Spectra



CRI: 93.5 (R1-R8)



Color parameters

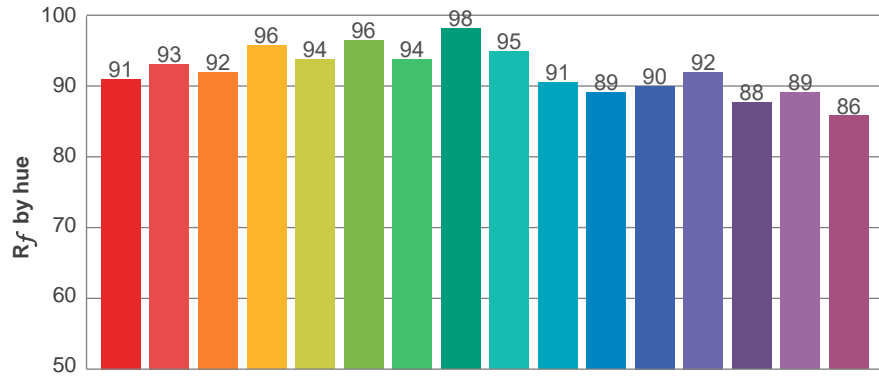
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.5	57.3	92.2	99.1	91.8	0.437	0.408	0.249	0.349	0.0015

R_f 92.2
Fidelity index R_f

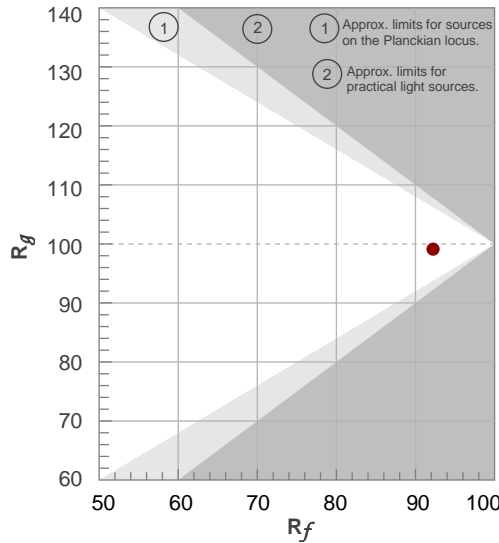
R_g 99.1
Gammut index R_g

TM30: 92.2

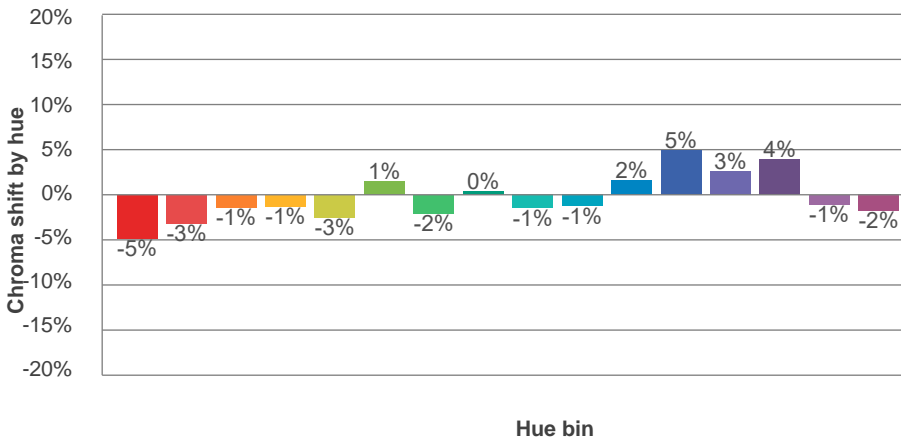
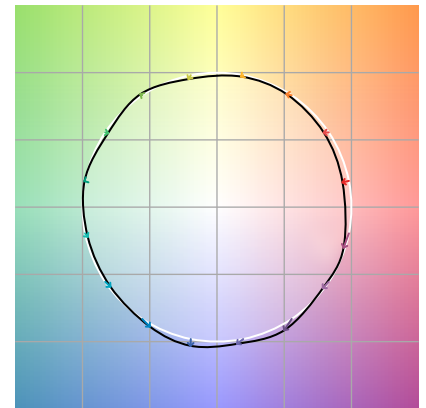
TM-30Color



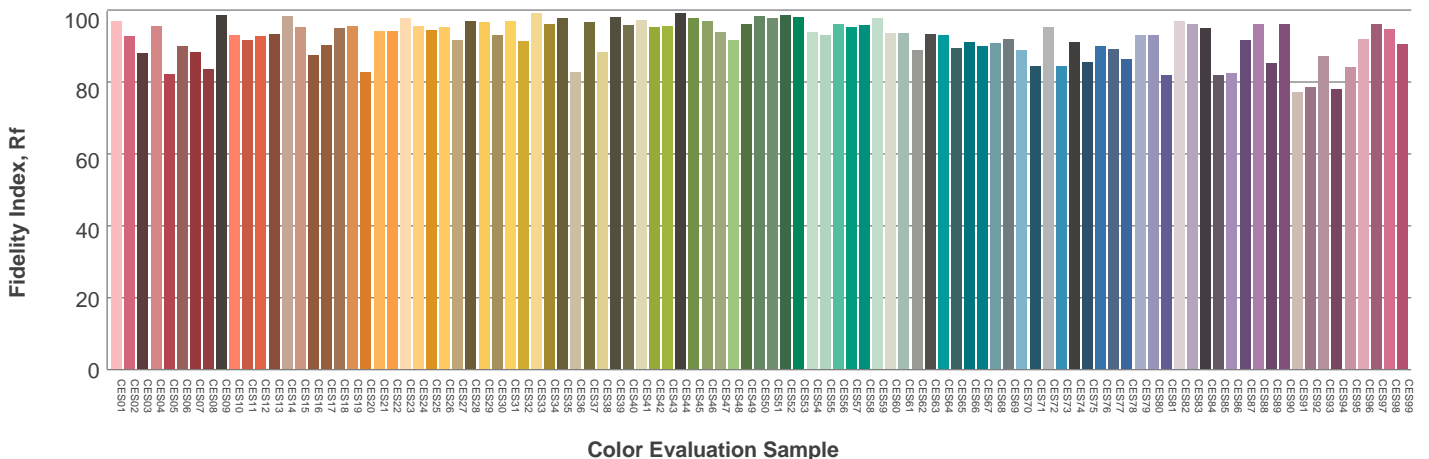
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-3%	2%
6	96	1%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	3%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



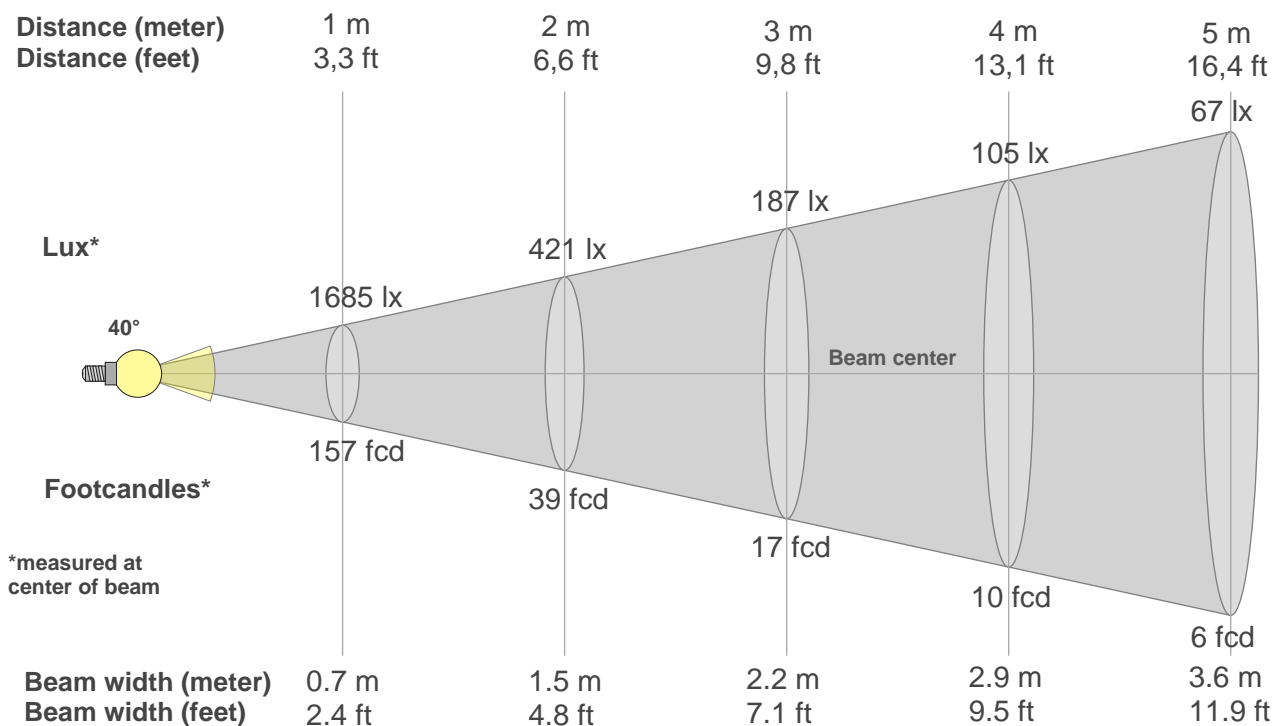
Color vector graphics



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
1685lx	421lx	187lx	105lx	67lx	47lx	34lx	26lx	21lx	17lx	14lx	12lx	10lx	9lx	7lx	7lx	6lx	5lx	5lx	4lx
156.5fcd	39.1fcd	17.4fcd	9.8fcd	6.3fcd	4.3fcd	3.2fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	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°
1685	1683	1671	1648	1613	1554	1469	1353	1206	1034	844	669	519	395	295	217	158	114	81	57
100%	100%	99%	98%	96%	92%	87%	80%	72%	61%	50%	40%	31%	23%	18%	13%	9%	7%	5%	3%

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°
1685	1681	1670	1649	1614	1556	1474	1358	1210	1035	843	659	510	395	306	235	176	126	89	61
100%	100%	99%	98%	96%	92%	87%	81%	72%	61%	50%	39%	30%	23%	18%	14%	10%	7%	5%	4%

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°
1685	1682	1669	1645	1609	1550	1461	1345	1199	1028	844	667	516	399	303	226	164	117	83	57
100%	100%	99%	98%	96%	92%	87%	80%	71%	61%	50%	40%	31%	24%	18%	13%	10%	7%	5%	3%

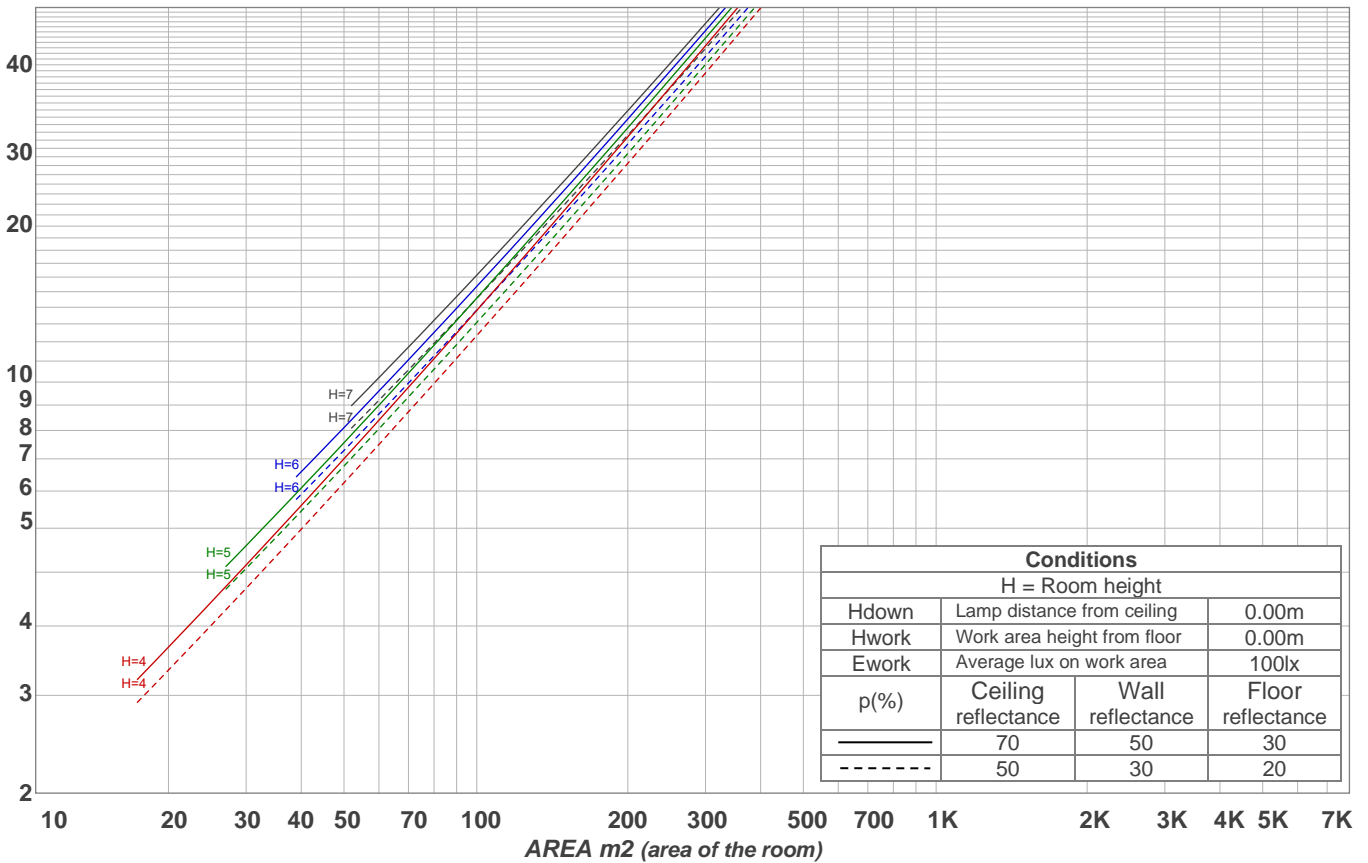
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1685	1678	1665	1639	1601	1548	1471	1362	1218	1038	843	652	489	359	260	186	133	93	64	44
100%	100%	99%	97%	95%	92%	87%	81%	72%	62%	50%	39%	29%	21%	15%	11%	8%	6%	4%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40°	63.2°	78.7°	98.2%	97.1%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
155 lm	345 lm	210 lm	63.5 lm	13.0 lm	4.66 lm	4.95 lm	5.20 lm	4.52 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