

Light efficiency:



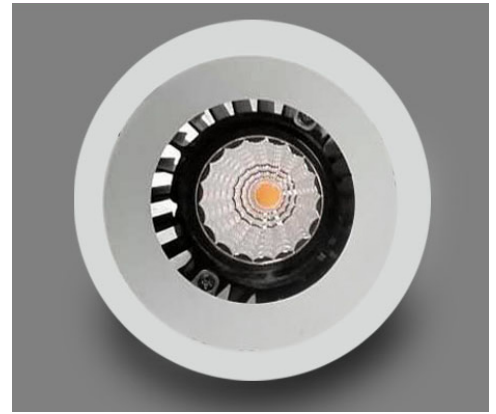
Output: 1393 lm

Light quality:

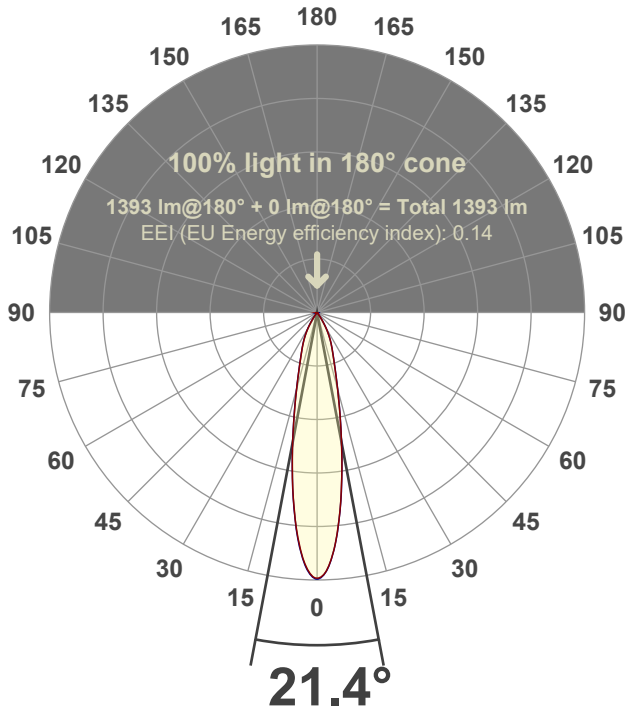


Peak: 5849 cd

Power: 14.1 W



Beam angle



Test number:

GR-O-F-CZ14-30k-SP-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-CZ14 30k 15° Optic-Solite

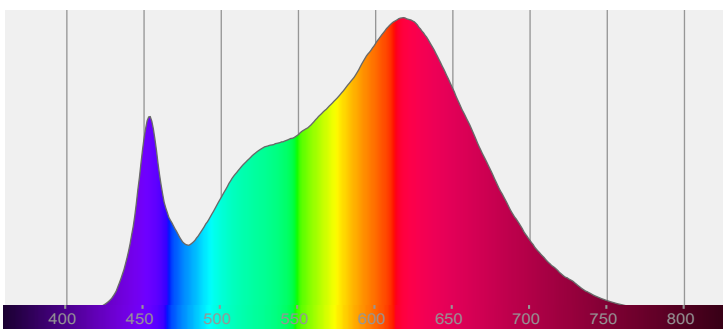
Date and time:

3/2/2022 11:19:47 PM

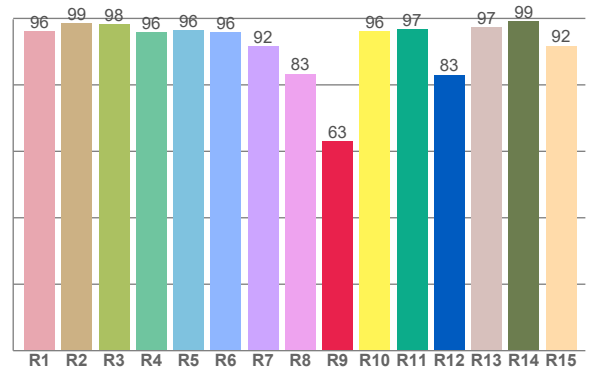
Delivered Lumens

1393

Spectra



CRI: 94.5 (R1-R8)



Color parameters

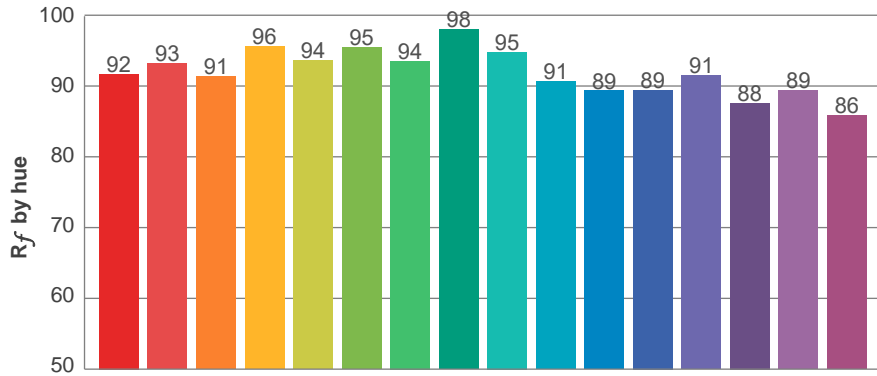
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.1	92.1	100.4	91.8	0.425	0.393	0.248	0.344	-0.0027

R_f 92.1
Fidelity index R_f

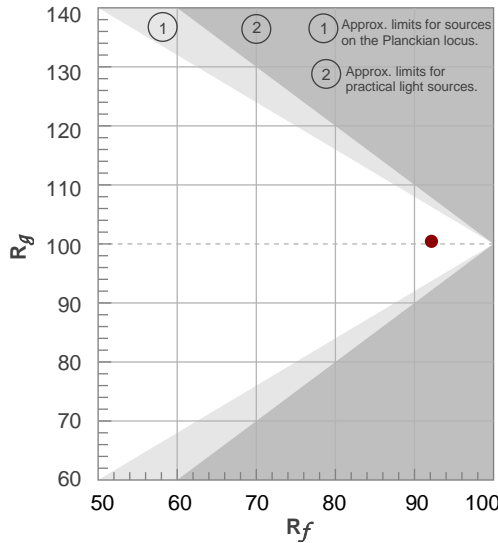
R_g 100.4
Gammut index R_g

TM30: 92.1

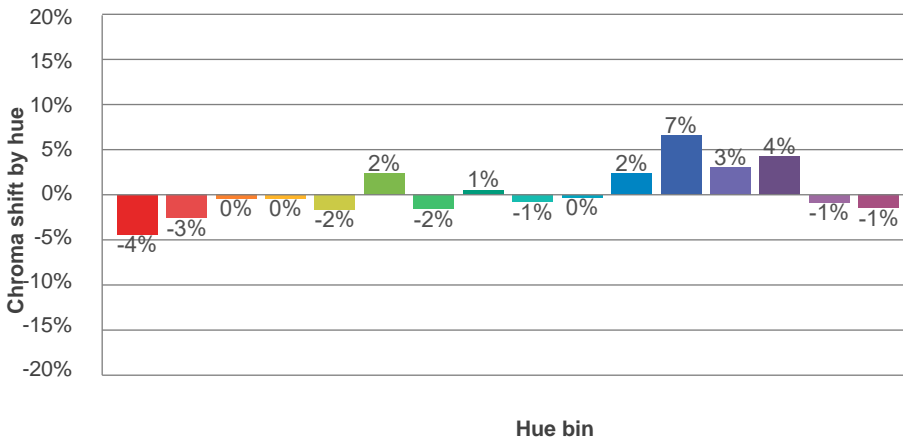
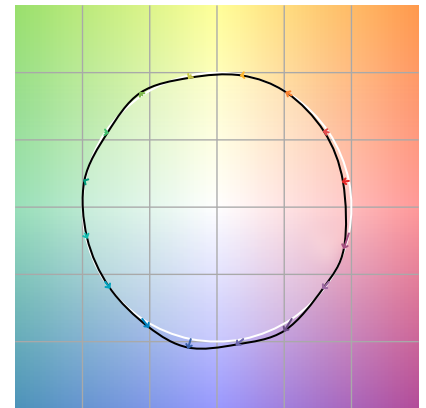
TM-30Color



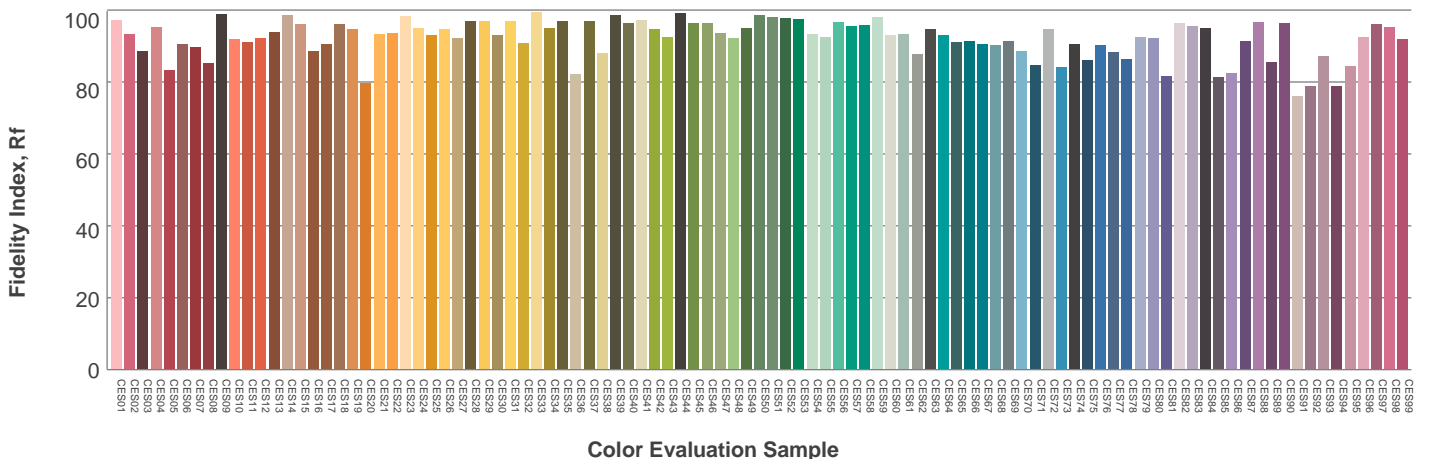
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	3%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-6%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



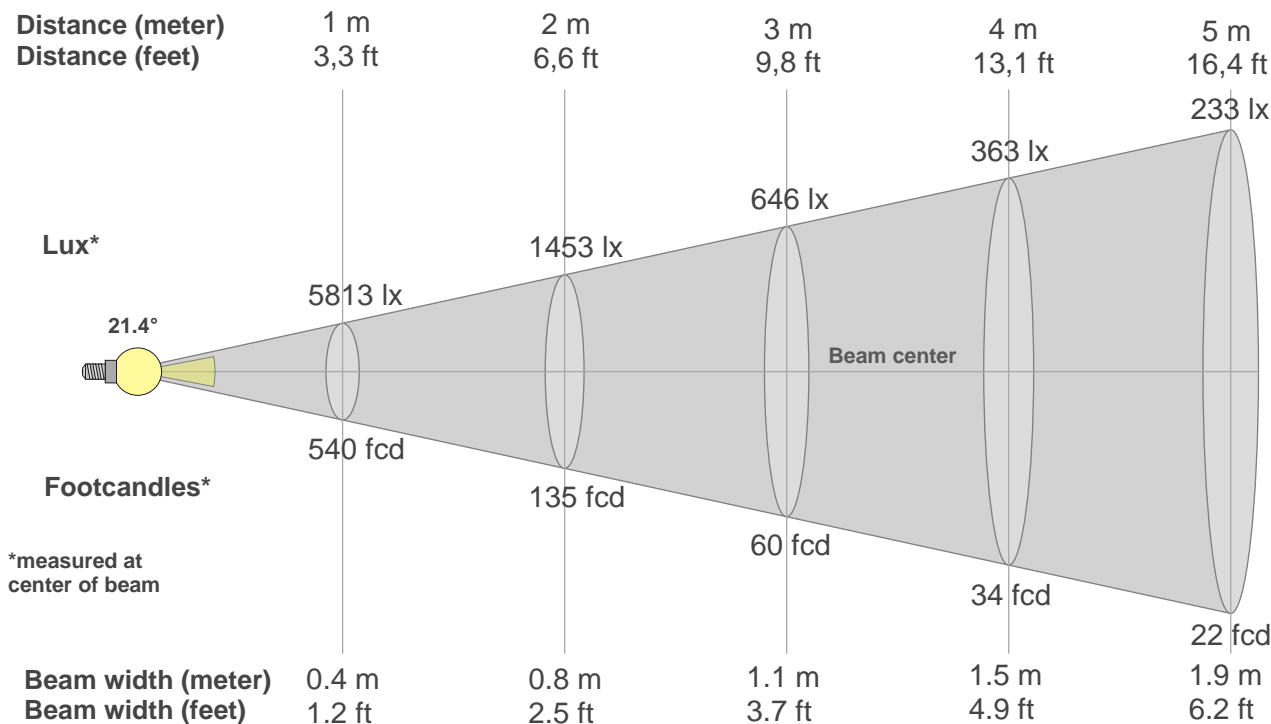
Color vector graphics



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
5813lx	1453lx	646lx	363lx	233lx	161lx	119lx	91lx	72lx	58lx	48lx	40lx	34lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
540.1fcd	135fcd	60fcd	33.8fcd	21.6fcd	15fcd	11fcd	8.4fcd	6.7fcd	5.4fcd	4.5fcd	3.8fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

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°
5813	5663	5225	4576	3856	3145	2501	1962	1568	1278	1065	904	774	655	535	418	308	214	141	91
100%	97%	90%	79%	66%	54%	43%	34%	27%	22%	18%	16%	13%	11%	9%	7%	5%	4%	2%	2%

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°
5813	5661	5208	4583	3867	3143	2492	1982	1586	1288	1068	901	769	647	528	412	302	209	140	94
100%	97%	90%	79%	67%	54%	43%	34%	27%	22%	18%	15%	13%	11%	9%	7%	5%	4%	2%	2%

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°
5813	5614	5188	4576	3856	3139	2506	1986	1582	1279	1058	905	775	655	541	429	318	225	152	100
100%	97%	89%	79%	66%	54%	43%	34%	27%	22%	18%	16%	13%	11%	9%	7%	5%	4%	3%	2%

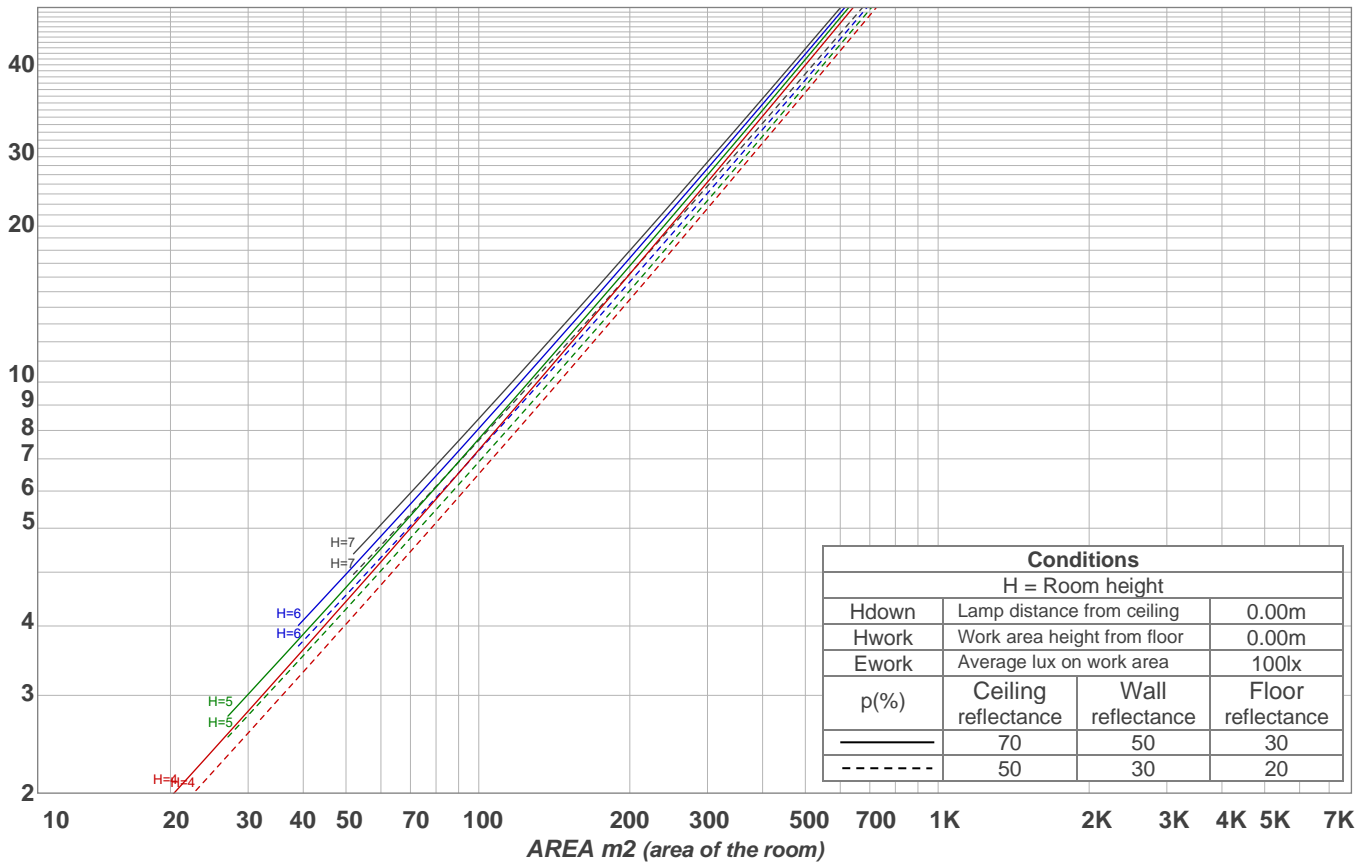
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5813	5649	5207	4584	3865	3140	2498	1985	1585	1286	1067	904	777	660	546	435	328	231	157	104
100%	97%	90%	79%	66%	54%	43%	34%	27%	22%	18%	16%	13%	11%	9%	7%	6%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.4°	54.4°	72.1°	99.2%	98.4%

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	90	89	87	87	87	
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84	84	84	
5	99	92	87	84	97	91	87	84	89	86	83	88	85	82	86	84	81	80	80	80	
6	95	88	83	80	94	87	83	80	86	82	79	85	81	79	84	81	78	77	77	77	
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	75	74	74	74	
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72	72	
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69	69	69	
10	83	76	71	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
409 lm	500 lm	325 lm	122 lm	19.5 lm	5.55 lm	4.01 lm	3.85 lm	3.71 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