

Light efficiency:



Output: 1231 lm

Light quality:

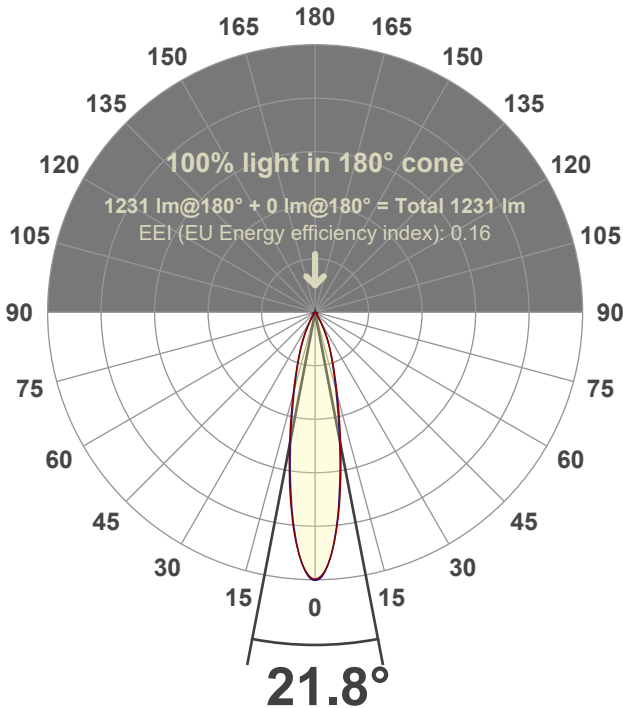


Peak: 5481 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

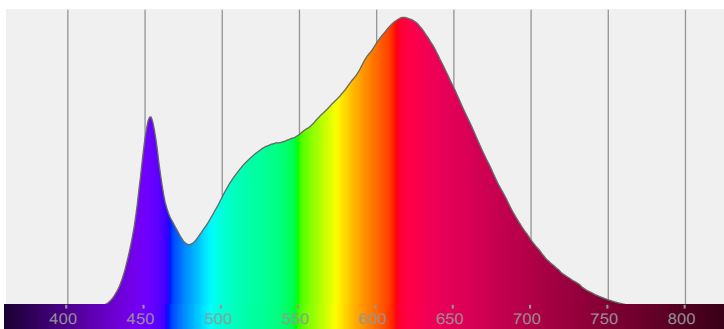
Date and time:

3/9/2022 5:17:18 PM

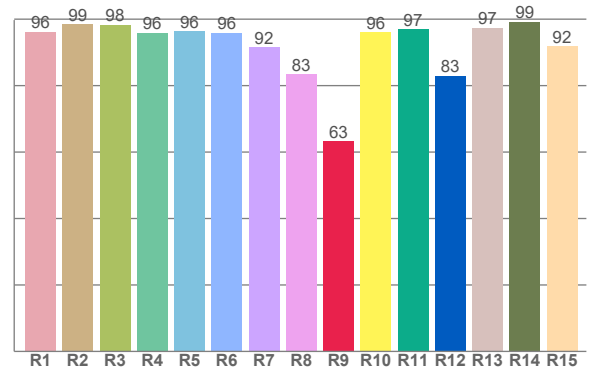
Delivered Lumens

1231

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 divition from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	94.5	63.2	92.2	100.4	91.8	0.426	0.394	0.248	0.344	-0.0026

R_f 92.2

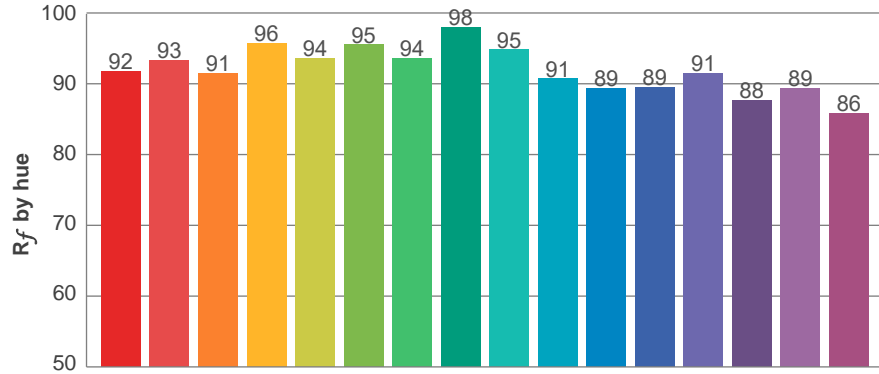
Fidelity index R_f

R_g 100.4

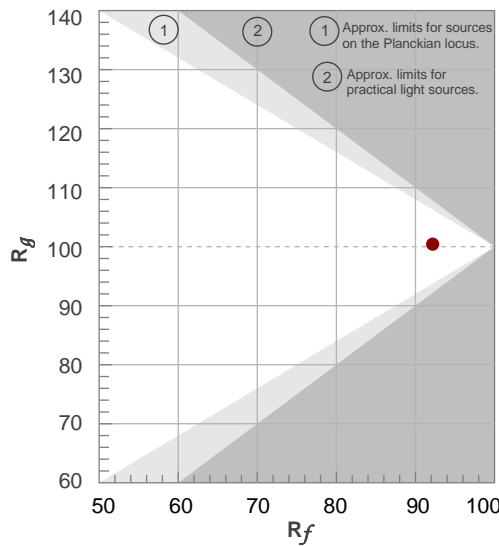
Gammut index R_g

TM30: 92.2

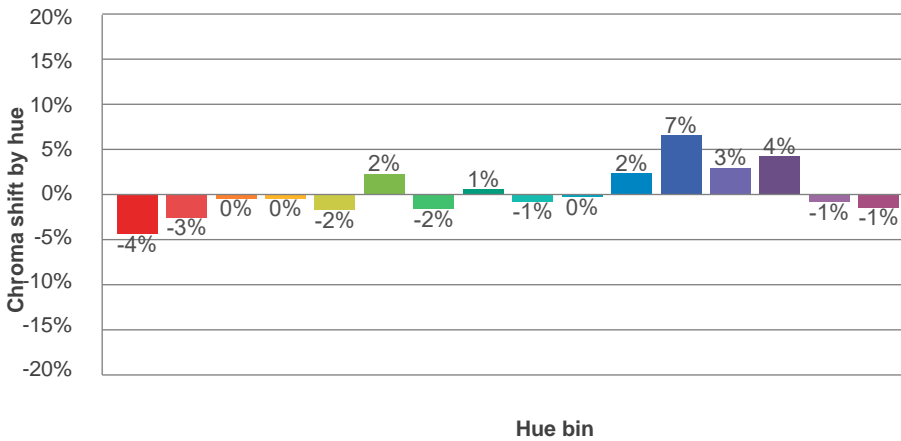
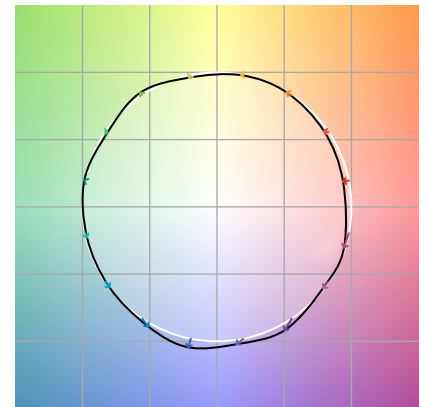
TM-30Color



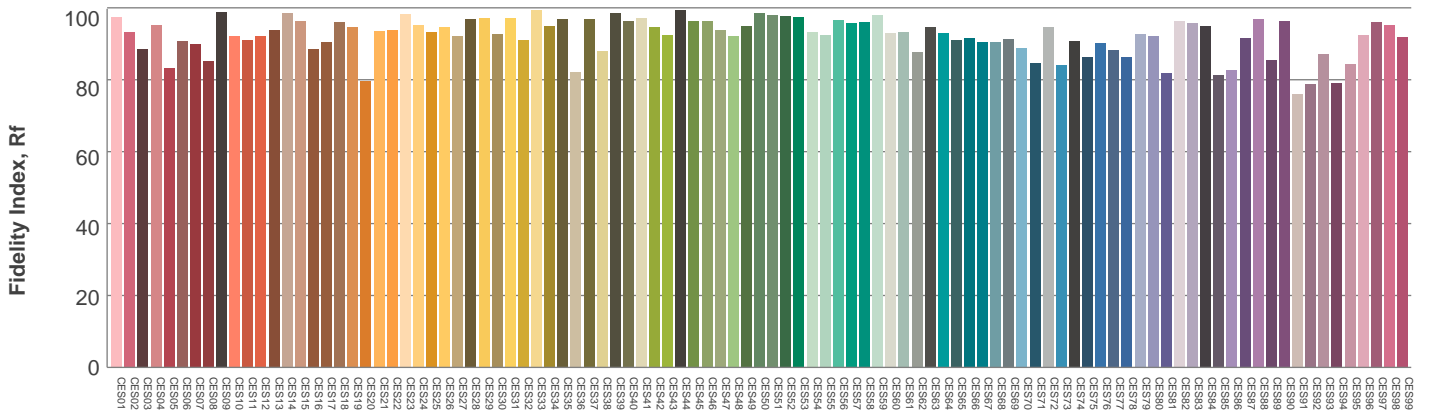
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	93	-3%	2%
3	91	0%	4%
4	96	0%	1%
5	94	-2%	2%
6	95	2%	0%
7	94	-2%	-1%
8	98	1%	0%
9	95	-1%	3%
10	91	0%	5%
11	89	2%	7%
12	89	7%	-1%
13	91	3%	-6%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-1%	-11%



Color vector graphics

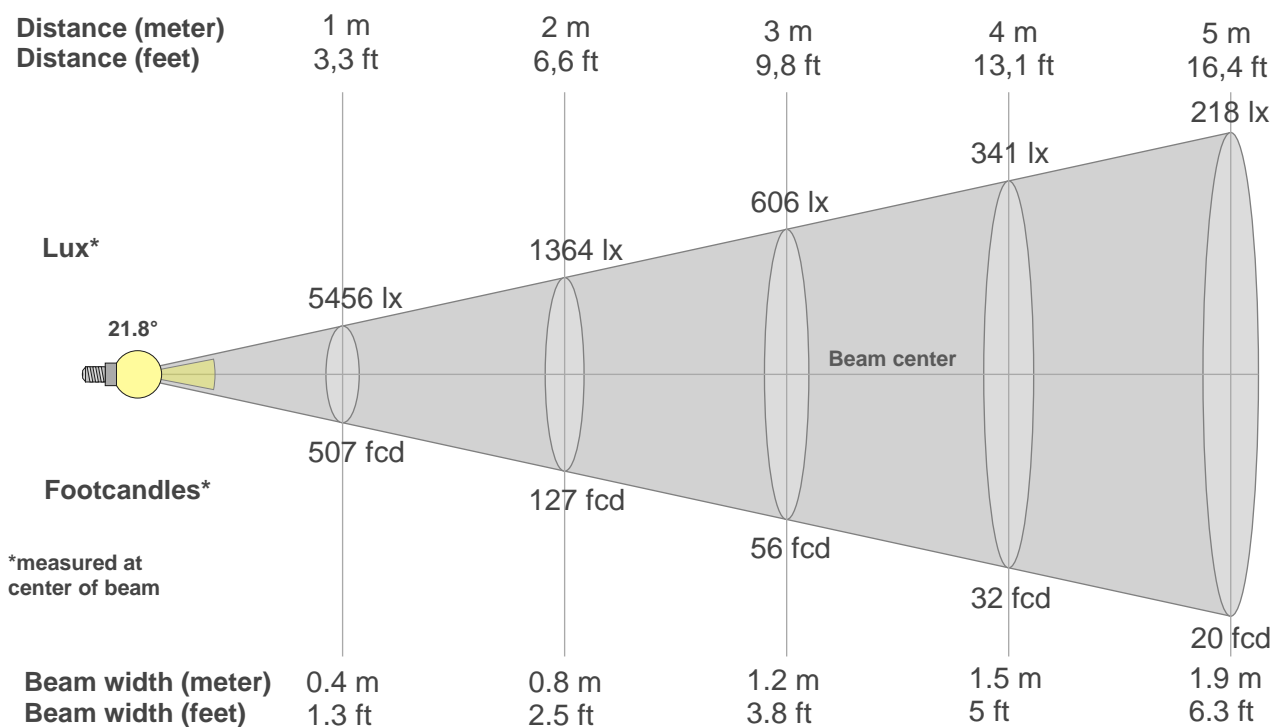


Color distortion



Color Evaluation Sample

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
5456lx	1364lx	606lx	341lx	218lx	152lx	111lx	85lx	67lx	55lx	45lx	38lx	32lx	28lx	24lx	21lx	19lx	17lx	15lx	14lx
506.9fcd	126.7fcd	56.3fcd	31.7fcd	20.3fcd	14.1fcd	10.3fcd	7.9fcd	6.3fcd	5.1fcd	4.2fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd

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°
5456	5340	4925	4362	3720	3067	2470	1986	1595	1282	1032	828	660	510	379	270	184	127	87	60
100%	98%	90%	80%	68%	56%	45%	36%	29%	23%	19%	15%	12%	9%	7%	5%	3%	2%	2%	1%

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°
5456	5324	4935	4329	3635	2965	2366	1868	1490	1215	997	815	654	506	373	263	178	116	75	51
100%	98%	90%	79%	67%	54%	43%	34%	27%	22%	18%	15%	12%	9%	7%	5%	3%	2%	1%	1%

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°
5456	5295	4913	4366	3720	3068	2482	1979	1568	1246	1003	800	625	474	345	242	167	114	78	53
100%	97%	90%	80%	68%	56%	45%	36%	29%	23%	18%	15%	11%	9%	6%	4%	3%	2%	1%	1%

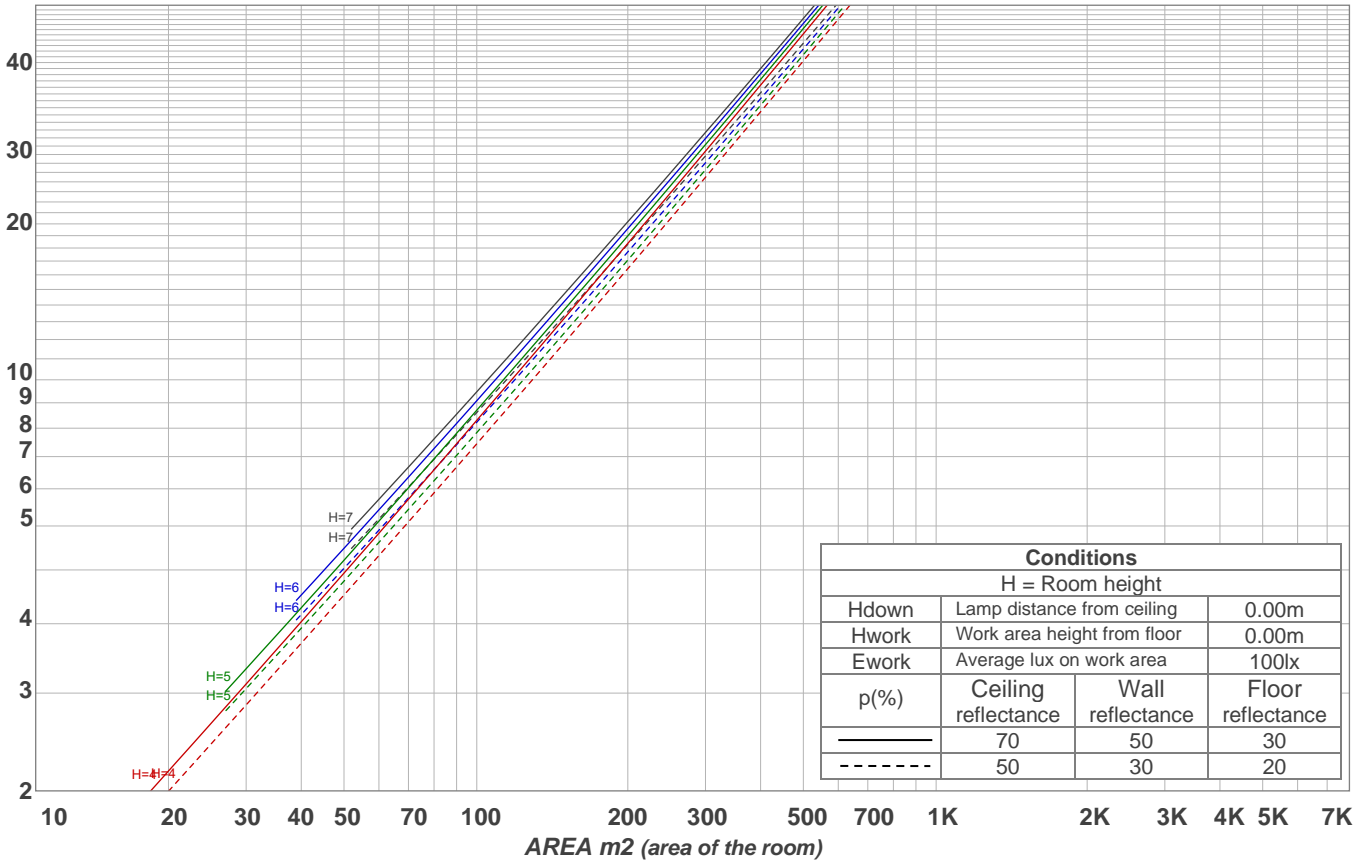
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5456	5315	4918	4311	3624	2962	2367	1866	1482	1197	965	768	596	445	320	222	148	96	64	45
100%	97%	90%	79%	66%	54%	43%	34%	27%	22%	18%	14%	11%	8%	6%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.8°	50.3°	66.1°	98.9%	97.7%

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88	88	88	
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	
5	99	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82	82	
6	96	89	85	82	95	89	85	81	87	84	81	86	83	80	85	82	80	79	79	79	
7	93	86	82	79	92	86	81	78	85	81	78	83	80	78	82	80	77	76	76	76	
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74	74	74	
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	72	71	71	71	
10	85	78	74	71	84	78	74	71	77	73	71	76	73	70	76	73	70	69	69	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
390 lm	482 lm	256 lm	65.3 lm	15.4 lm	8.14 lm	6.24 lm	3.85 lm	3.74 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