

Light efficiency:



Output: 1256 lm

Light quality:

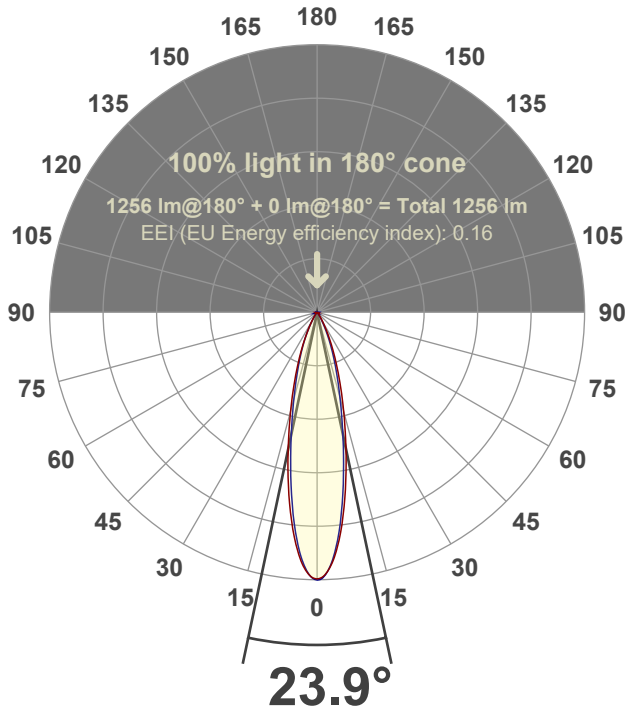


Peak: 5151 cd

Power: 14.2 W



Beam angle



Test number:

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

Luminaire Model:

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

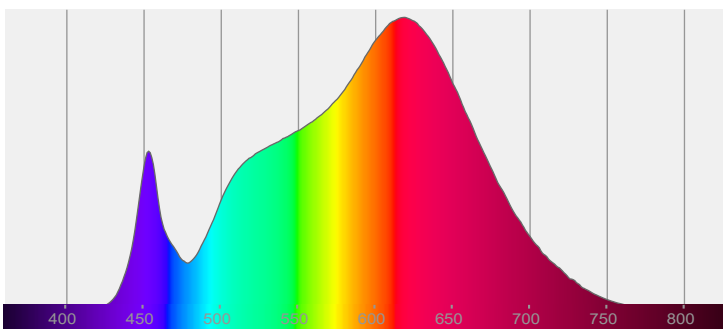
Date and time:

6/30/2022 9:35:21 PM

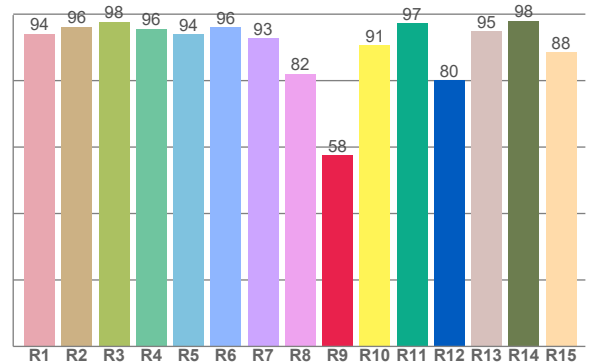
Delivered Lumens

1256

Spectra



CRI: 93.6 (R1-R8)



Color parameters

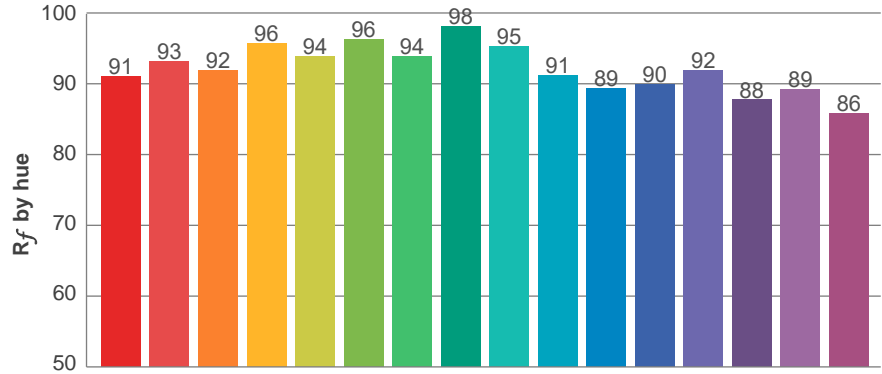
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
93.6	57.6	92.3	99.3	91.8	0.438	0.408	0.250	0.349	0.0014

R_f 92.3
Fidelity index R_f

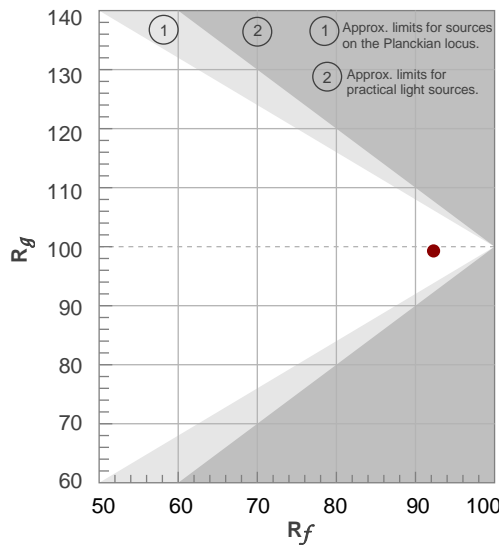
R_g 99.3
Gammut index R_g

TM30: 92.3

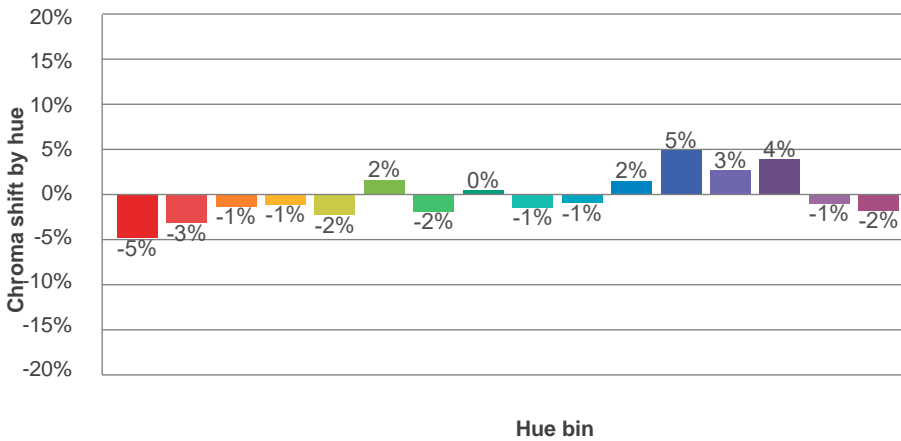
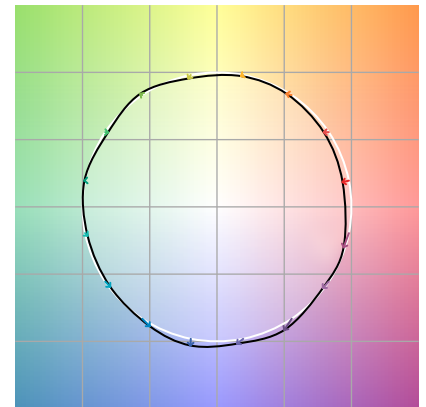
TM-30Color



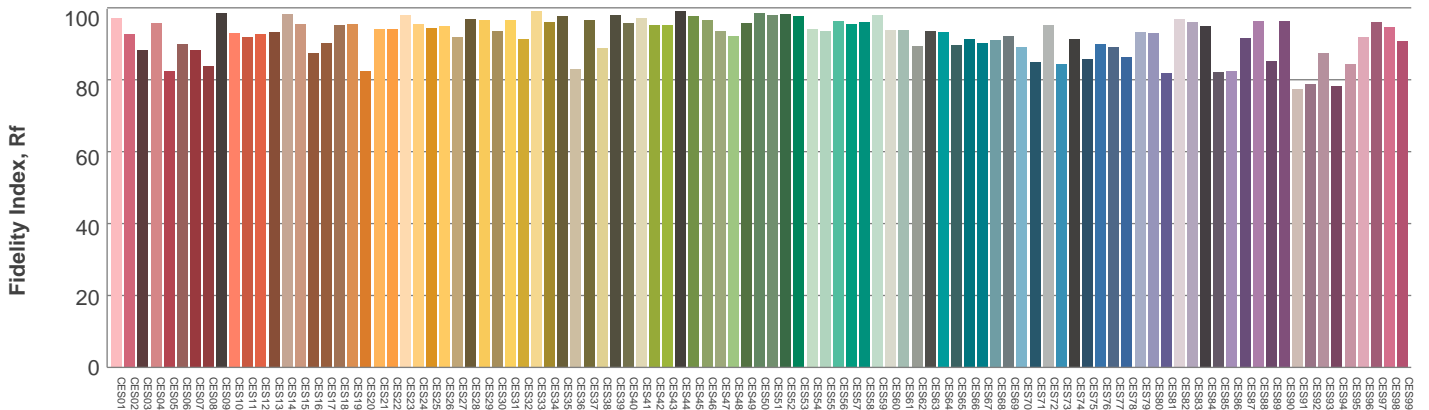
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	1%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-1%	2%
10	91	-1%	5%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



Color vector graphics

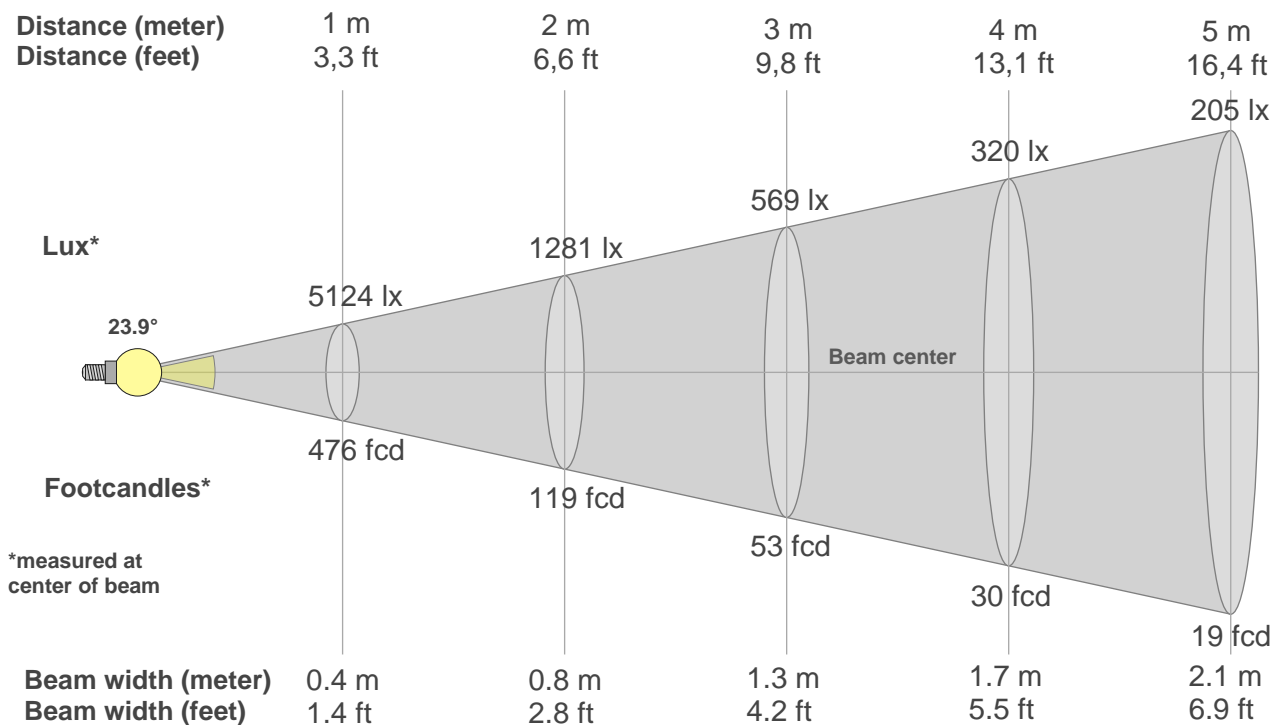


Color distortion



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
5124lx	1281lx	569lx	320lx	205lx	142lx	105lx	80lx	63lx	51lx	42lx	36lx	30lx	26lx	23lx	20lx	18lx	16lx	14lx	13lx
476fcd	119fcd	52.9fcd	29.8fcd	19fcd	13.2fcd	9.7fcd	7.4fcd	5.9fcd	4.8fcd	3.9fcd	3.3fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.6fcd	1.5fcd	1.3fcd	1.2fcd

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°
5124	5022	4743	4302	3767	3221	2698	2220	1801	1439	1142	895	687	514	376	268	196	146	109	81
100%	98%	93%	84%	74%	63%	53%	43%	35%	28%	22%	17%	13%	10%	7%	5%	4%	3%	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°
5124	5014	4680	4179	3570	2961	2411	1938	1543	1221	956	738	553	399	276	185	123	85	60	42
100%	98%	91%	82%	70%	58%	47%	38%	30%	24%	19%	14%	11%	8%	5%	4%	2%	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°
5124	5020	4743	4314	3789	3238	2704	2218	1794	1428	1122	874	664	492	357	255	183	137	103	77
100%	98%	93%	84%	74%	63%	53%	43%	35%	28%	22%	17%	13%	10%	7%	5%	4%	3%	2%	2%

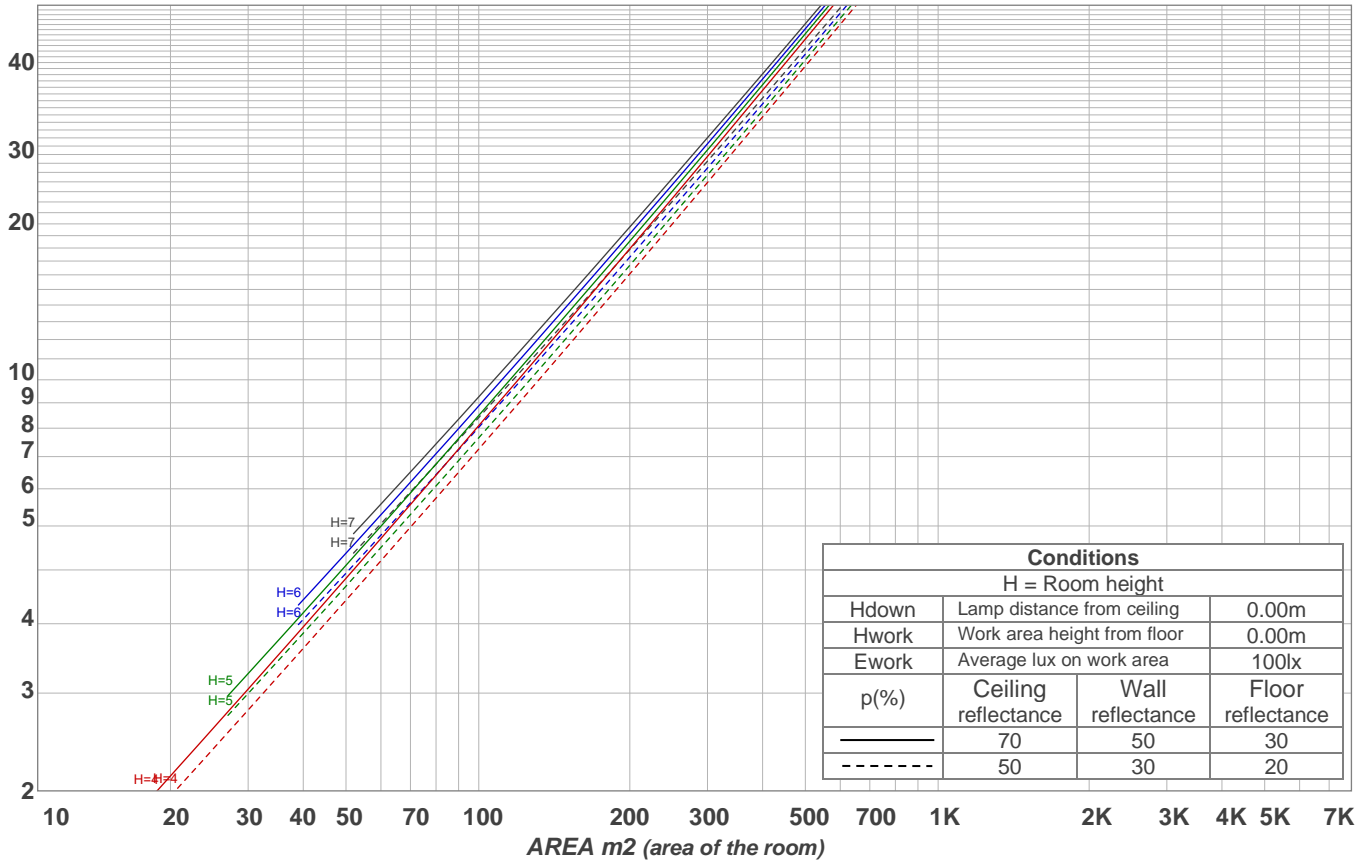
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5124	5013	4677	4155	3556	2963	2421	1954	1568	1261	1016	806	624	464	329	224	155	106	73	51
100%	98%	91%	81%	69%	58%	47%	38%	31%	25%	20%	16%	12%	9%	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
23.9°	50.7°	66.9°	99.3%	98.3%

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	103	101	100	99	98	98	96	96	96	
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92	92	92	
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88	88	
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	
5	100	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82	82	
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	79	79	
7	93	86	82	79	92	86	81	78	85	81	78	84	80	78	83	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	75	73	79	75	73	78	75	72	71	71	71	
10	85	78	74	71	84	78	73	71	77	73	71	76	73	70	76	72	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°
382 lm	517 lm	255 lm	68.8 lm	17.9 lm	5.70 lm	4.02 lm	2.49 lm	2.82 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