

Light efficiency:



Output: 882 lm

Light quality:

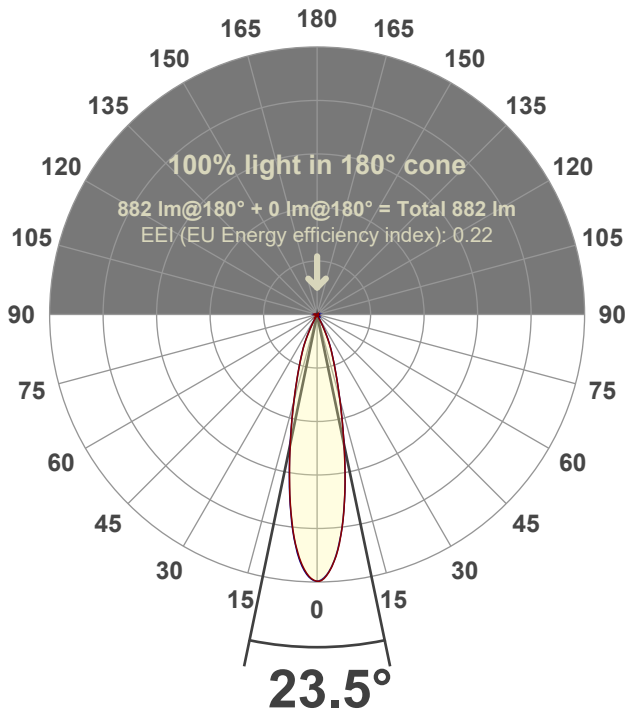


Peak: 4195 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-3022-NF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3022 24° Optic

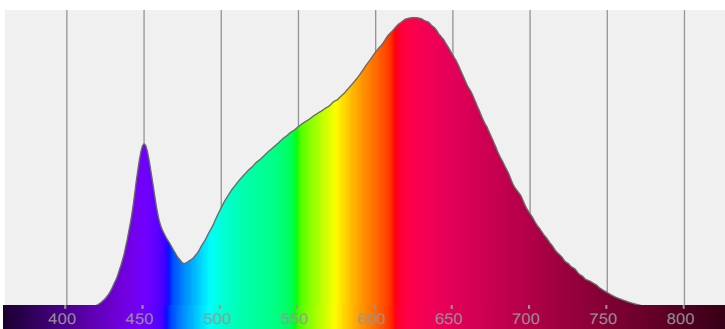
Date and time:

6/30/2022 4:29:23 PM

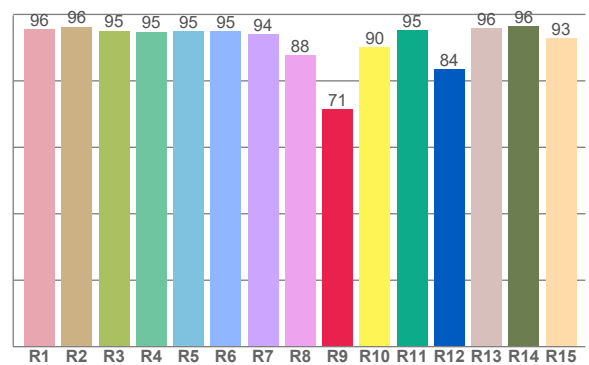
Delivered Lumens

882

Spectra



CRI: 94.2 (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
	94.2	71.3	91.8	102.5	90.9	0.435	0.399	0.252	0.346	-0.0020

R_f 91.8

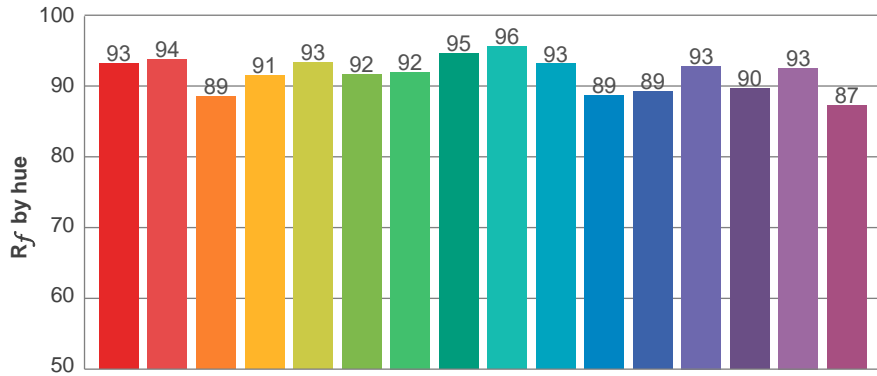
Fidelity index R_f

R_g 102.5

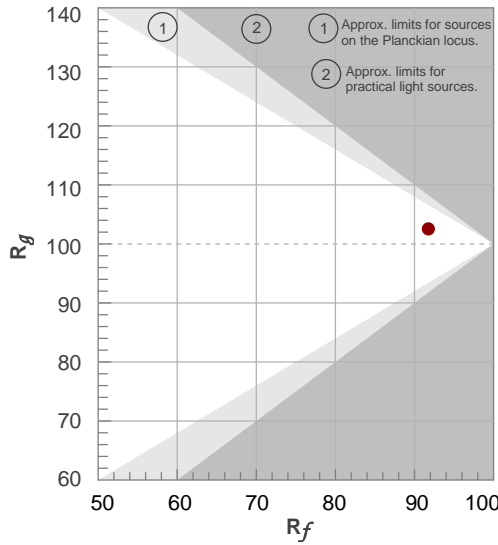
Gammut index R_g

TM30: 91.8

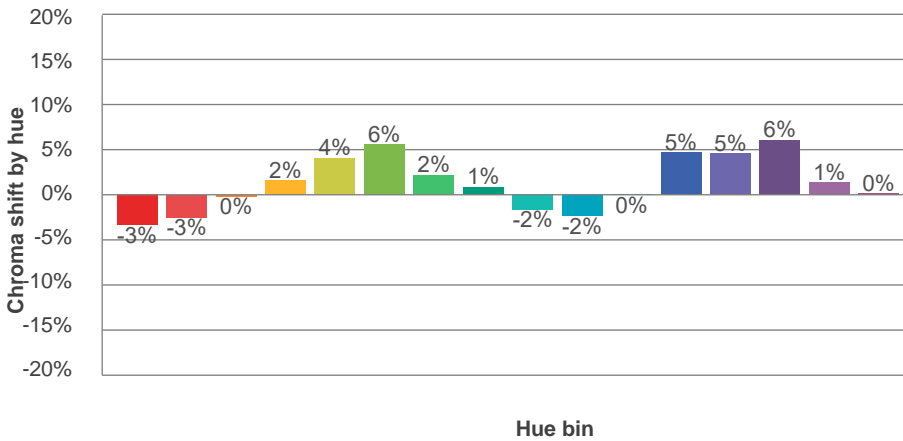
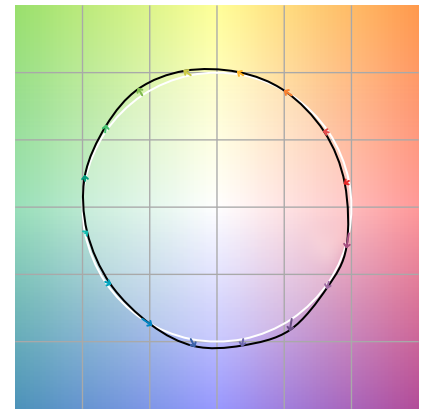
TM-30Color



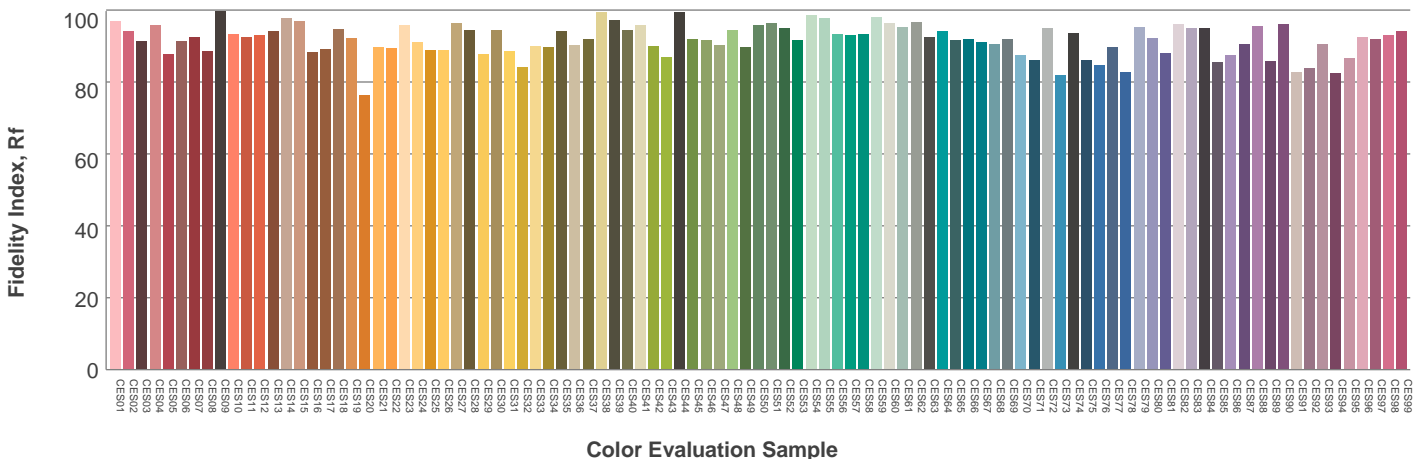
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	3%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-4%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



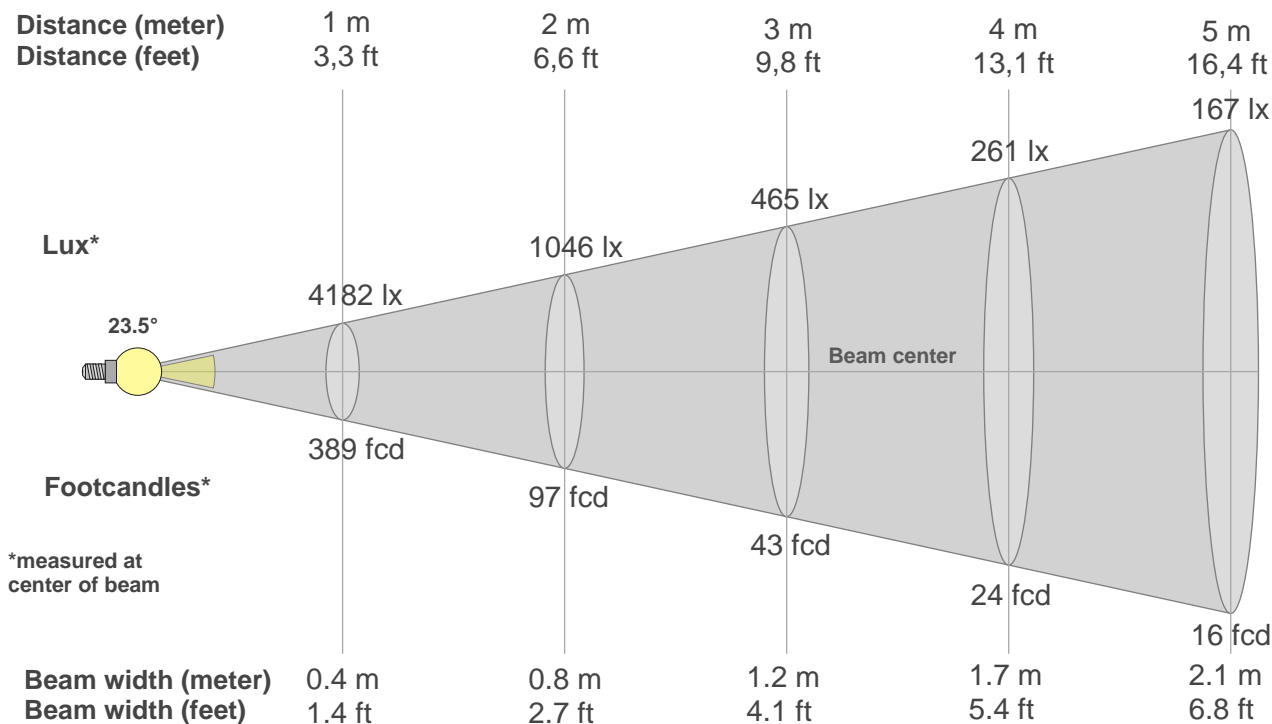
Color vector graphics



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
4182lx	1046lx	465lx	261lx	167lx	116lx	85lx	65lx	52lx	42lx	35lx	29lx	25lx	21lx	19lx	16lx	14lx	13lx	12lx	10lx
388.5fcd	97.1fcd	43.2fcd	24.3fcd	15.5fcd	10.8fcd	7.9fcd	6.1fcd	4.8fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	1fcd

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°
4182	4097	3870	3517	3059	2542	2031	1584	1222	948	739	574	403	244	110	31	14	11	8	6
100%	98%	93%	84%	73%	61%	49%	38%	29%	23%	18%	14%	10%	6%	3%	1%	0%	0%	0%	0%

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°
4182	4096	3864	3507	3052	2543	2040	1593	1228	948	737	579	424	257	111	35	13	10	8	7
100%	98%	92%	84%	73%	61%	49%	38%	29%	23%	18%	14%	10%	6%	3%	1%	0%	0%	0%	0%

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°
4182	4088	3857	3499	3024	2510	2028	1614	1271	1000	787	617	463	293	152	36	14	11	9	7
100%	98%	92%	84%	72%	60%	48%	39%	30%	24%	19%	15%	11%	7%	4%	1%	0%	0%	0%	0%

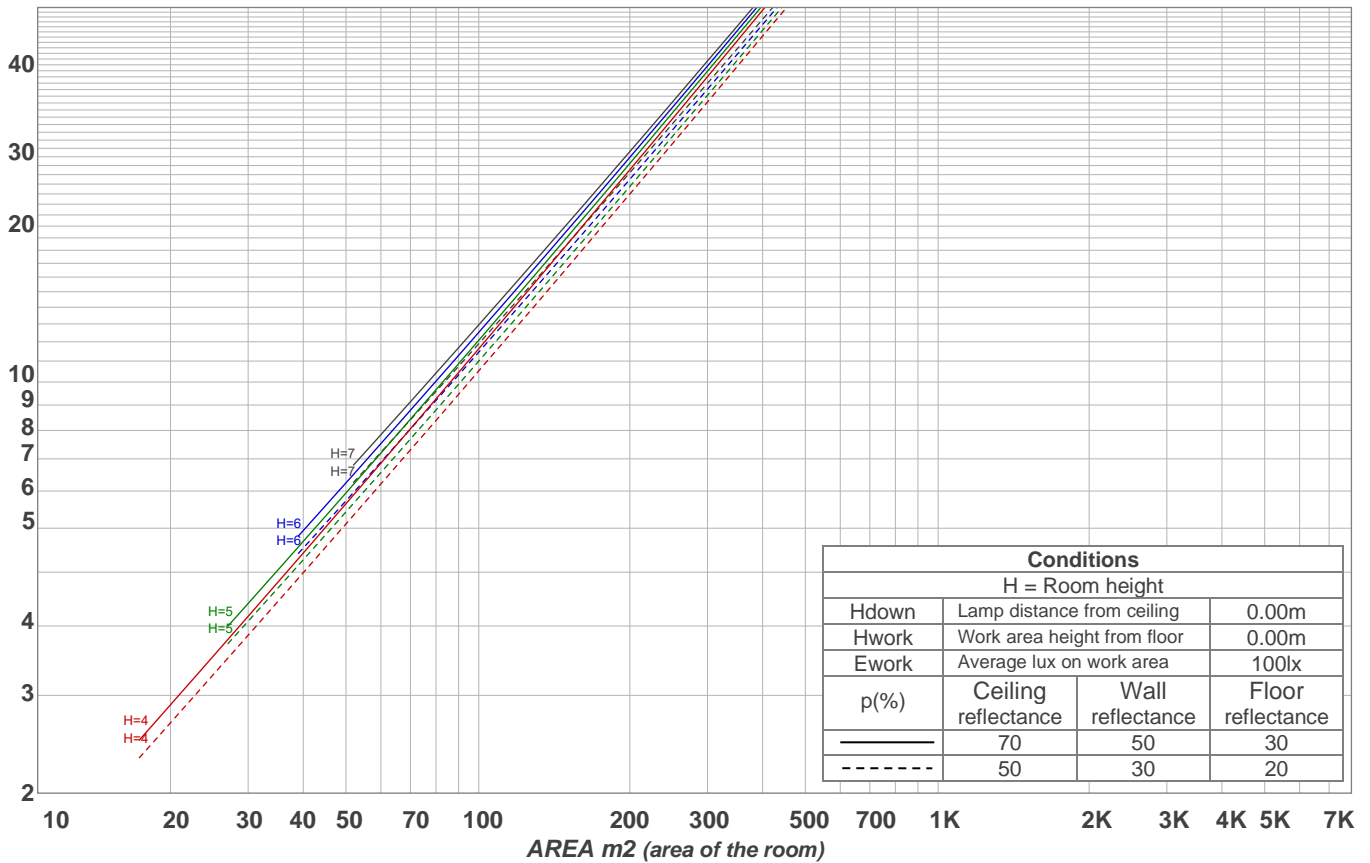
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4182	4114	3879	3507	3036	2527	2042	1611	1256	983	773	606	458	280	125	37	13	10	8	6
100%	98%	93%	84%	73%	60%	49%	39%	30%	24%	18%	14%	11%	7%	3%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.5°	48.4°	56.6°	99.3%	99.0%

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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97	97	97	
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	93	93	
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	90	90	90	
4	105	99	95	92	103	98	95	92	96	93	91	94	92	90	93	91	89	88	88	88	
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	90	88	86	85	85	85	
6	99	93	89	86	98	92	88	85	91	87	85	89	86	84	88	86	84	83	83	83	
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	83	81	80	80	80	
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78	78	78	
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	76	76	
10	89	82	78	76	88	82	78	76	81	78	76	81	78	75	80	77	75	74	74	74	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
315 lm	394 lm	156 lm	6.40 lm	2.25 lm	1.68 lm	1.68 lm	1.81 lm	2.13 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