

Light efficiency:



Output: 929 lm

Light quality:

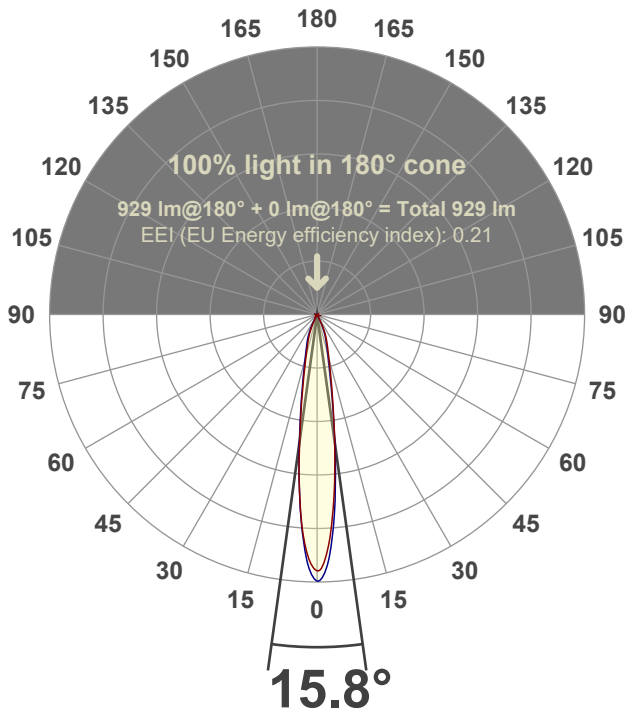


Peak: 7211 cd

Power: 15.1 W



Beam angle



Test number:

GR-F-A14-3022-SP-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3022 15° Optic

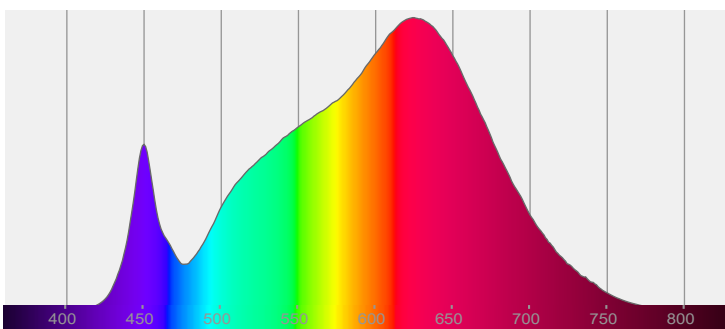
Date and time:

6/30/2022 1:34:03 PM

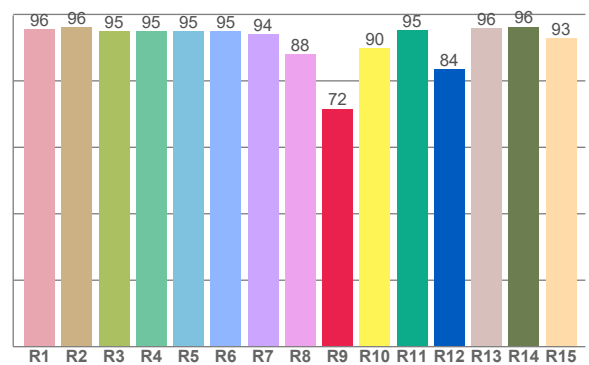
Delivered Lumens

929

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	71.6	91.8	102.6	91.0	0.436	0.399	0.252	0.346	-0.0018

R_f 91.8

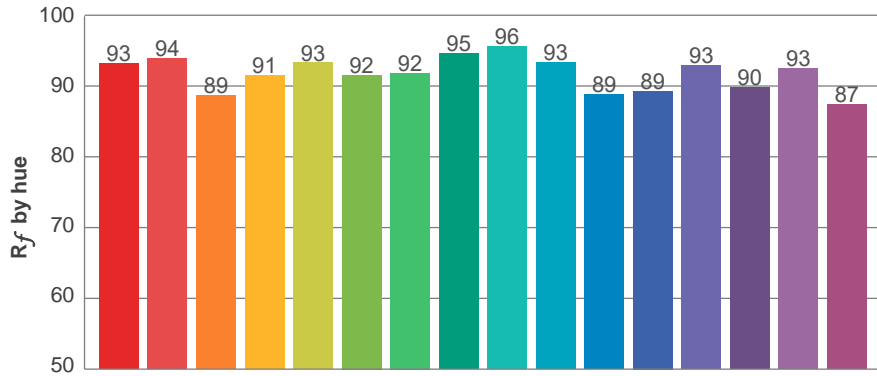
Fidelity index R_f

R_g 102.6

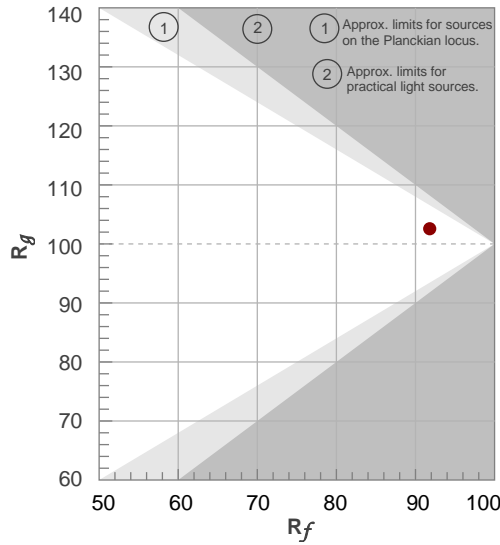
Gammut index R_g

TM30: 91.8

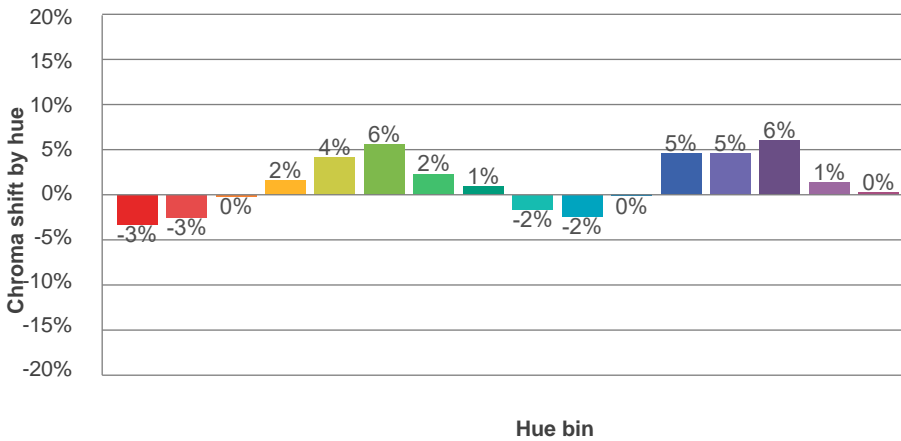
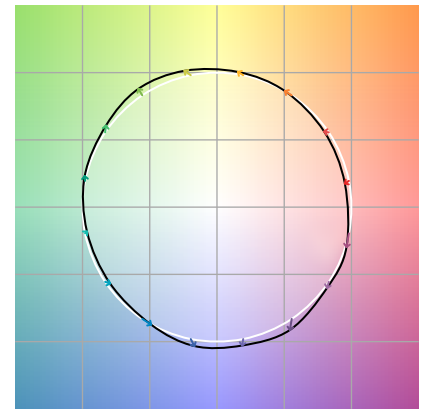
TM-30Color



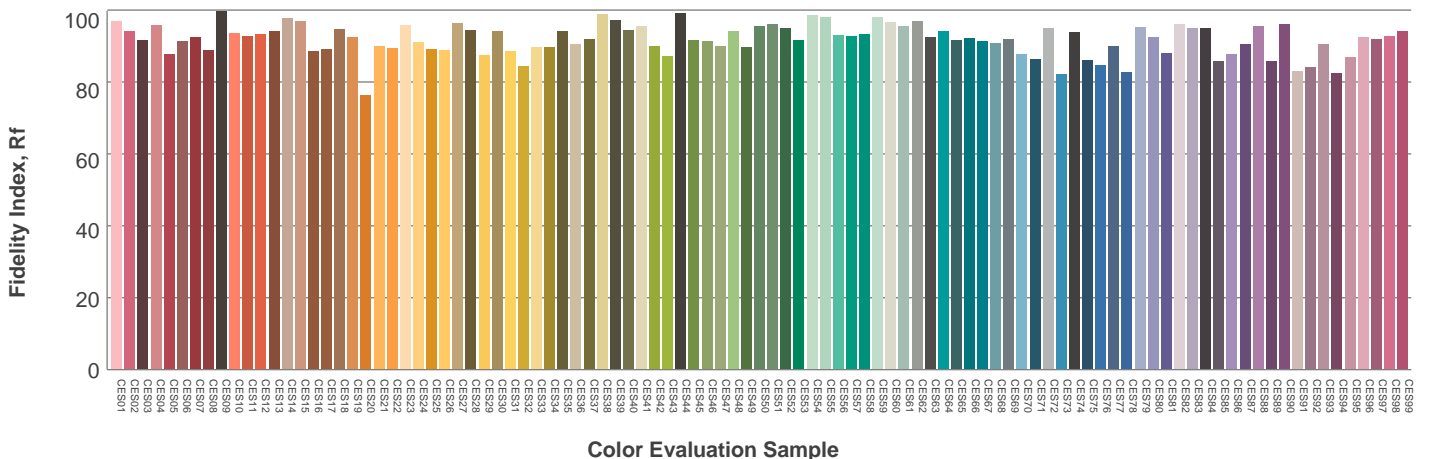
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-5%
8	95	1%	-3%
9	96	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	93	1%	-4%
16	87	0%	-10%



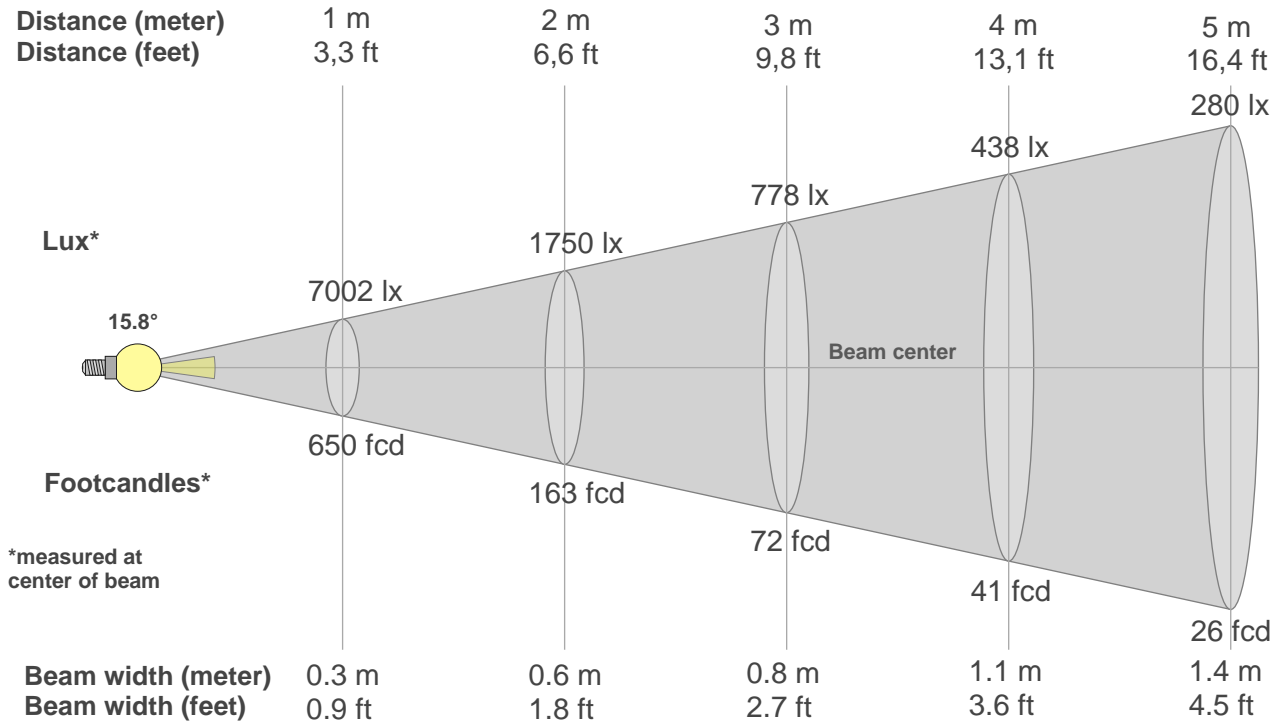
Color vector graphics



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
7002lx	1750lx	778lx	438lx	280lx	194lx	143lx	109lx	86lx	70lx	58lx	49lx	41lx	36lx	31lx	27lx	24lx	22lx	19lx	18lx
650.5fcd	162.6fcd	72.3fcd	40.7fcd	26fcd	18.1fcd	13.3fcd	10.2fcd	8fcd	6.5fcd	5.4fcd	4.5fcd	3.8fcd	3.3fcd	2.9fcd	2.5fcd	2.3fcd	2fcd	1.8fcd	1.6fcd

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°
7002	6495	5649	4549	3432	2492	1868	1432	1134	925	765	621	482	309	164	62	14	9	8	7
100%	93%	81%	65%	49%	36%	27%	20%	16%	13%	11%	9%	7%	4%	2%	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°
7002	6824	5937	4741	3488	2407	1679	1259	992	804	652	501	336	178	58	21	12	10	8	8
100%	97%	85%	68%	50%	34%	24%	18%	14%	11%	9%	7%	5%	3%	1%	0%	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°
7002	6554	5783	4628	3427	2469	1788	1328	1028	830	679	533	369	214	93	21	13	10	7	7
100%	94%	83%	66%	49%	35%	26%	19%	15%	12%	10%	8%	5%	3%	1%	0%	0%	0%	0%	0%

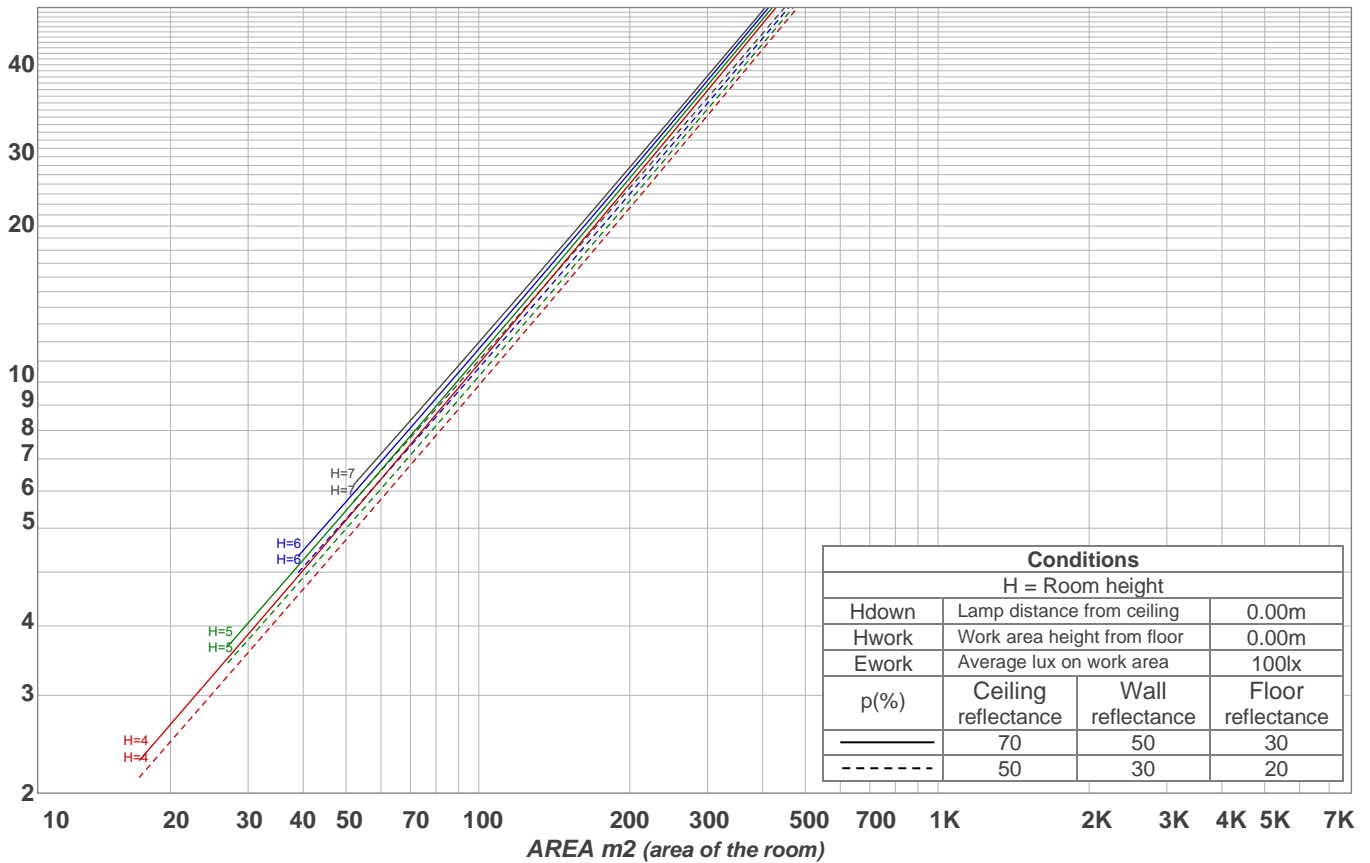
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7002	6793	5810	4632	3497	2566	1898	1447	1145	946	797	662	518	358	193	62	21	10	7	6
100%	97%	83%	66%	50%	37%	27%	21%	16%	14%	11%	9%	7%	5%	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
15.8°	40.5°	54.3°	99.1%	98.7%

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	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	96	
2	112	108	105	103	109	106	104	102	103	101	99	100	99	97	98	96	95	94	93	92	
3	108	104	100	98	106	102	99	97	100	97	95	98	96	94	96	94	92	91	90	89	
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	88	87	
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	88	86	85	84	
6	100	94	90	87	99	93	90	87	92	89	86	91	88	86	90	87	85	84	83	82	
7	97	91	87	85	96	91	87	84	90	86	84	89	86	84	88	85	83	82	81	80	
8	95	89	85	82	94	88	85	82	87	84	82	87	84	82	86	83	81	80	79	78	
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	78	77	76	
10	91	84	81	78	90	84	81	78	83	80	78	83	80	78	82	80	78	77	76	75	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
404 lm	352 lm	153 lm	6.66 lm	3.05 lm	2.32 lm	2.52 lm	2.48 lm	3.04 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