

Light efficiency:



Output: 915 lm

Light quality:

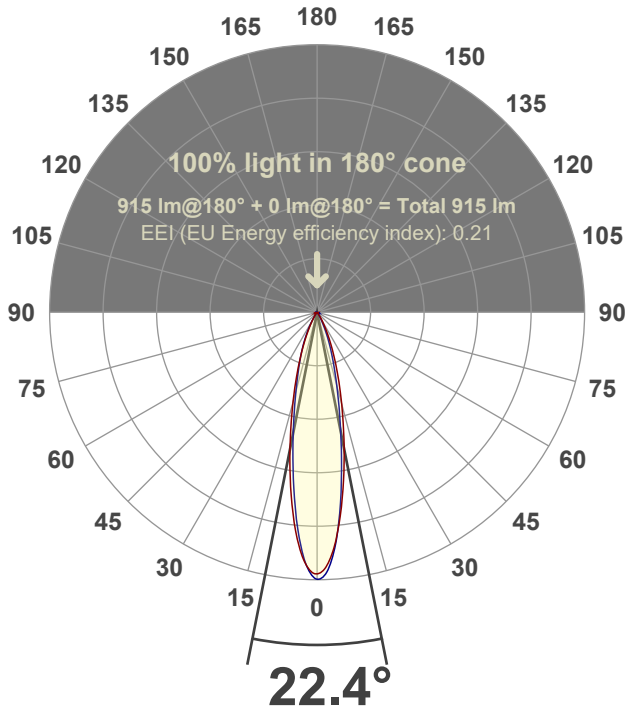


Peak: 4068 cd

Power: 15.1 W



Beam angle



Test number:

GR-F-A14-3022-SP-SQ-91A-Rev2

Luminaire Model:

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

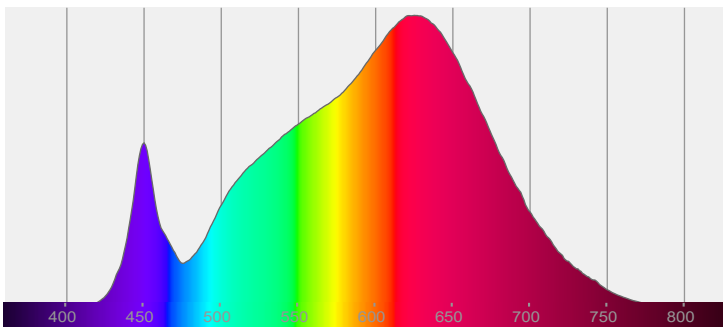
Date and time:

6/30/2022 1:31:18 PM

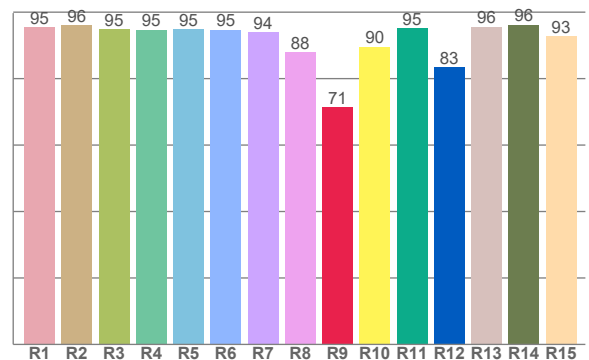
Delivered Lumens

915

Spectra



CRI: 94.1 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
94.1	71.3	91.7	102.6	91.0	0.436	0.400	0.252	0.346	-0.0017

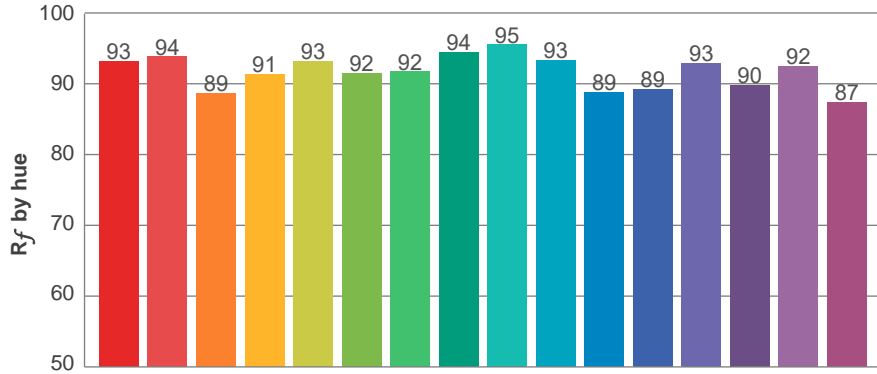
**$R_f$  91.7**  
Fidelity index  $R_f$

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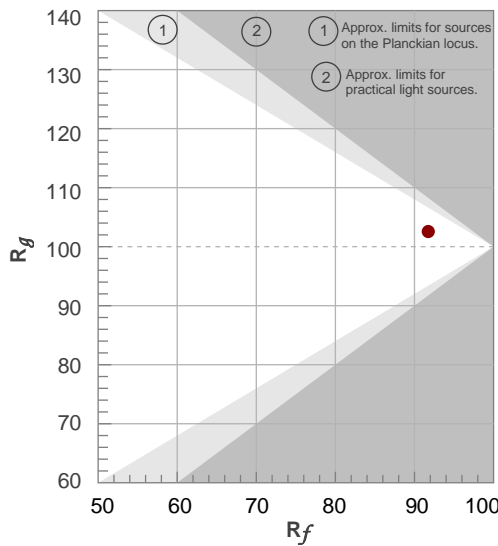
**$R_g$  102.6**  
Gammut index  $R_g$

TM30: 91.7

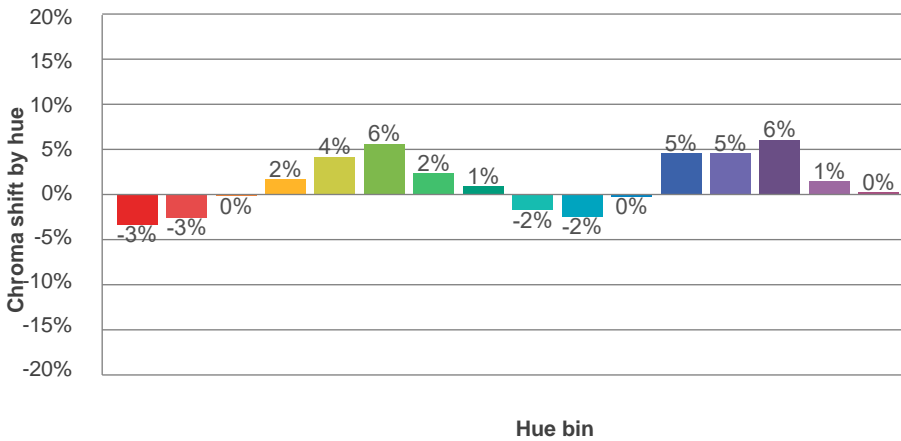
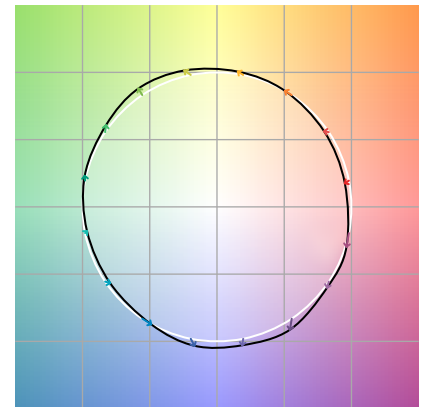
TM-30Color



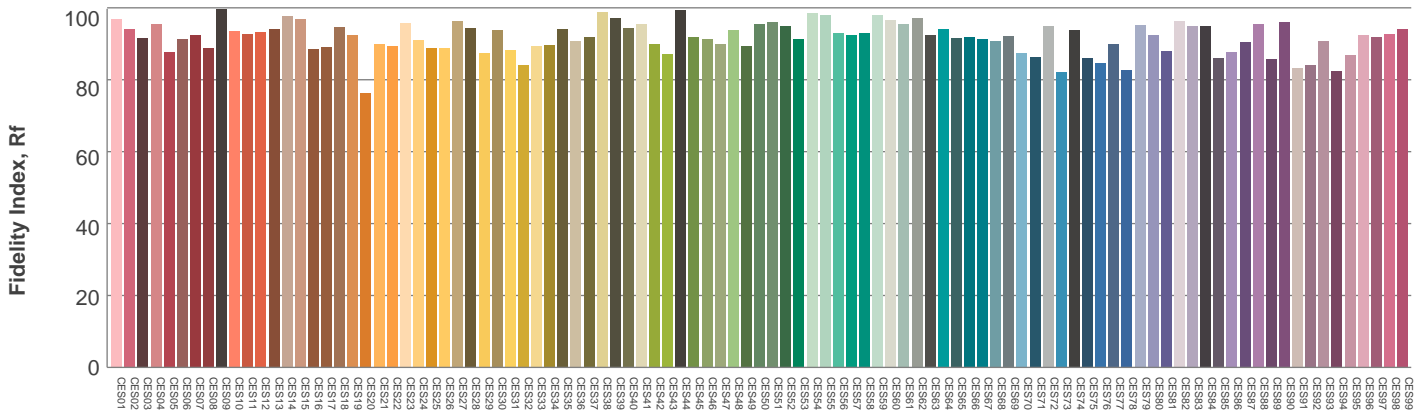
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	-1%
2	94	-3%	2%
3	89	0%	6%
4	91	2%	4%
5	93	4%	4%
6	92	6%	0%
7	92	2%	-5%
8	94	1%	-4%
9	95	-2%	-1%
10	93	-2%	3%
11	89	0%	8%
12	89	5%	4%
13	93	5%	-2%
14	90	6%	-6%
15	92	1%	-4%
16	87	0%	-10%



Color vector graphics

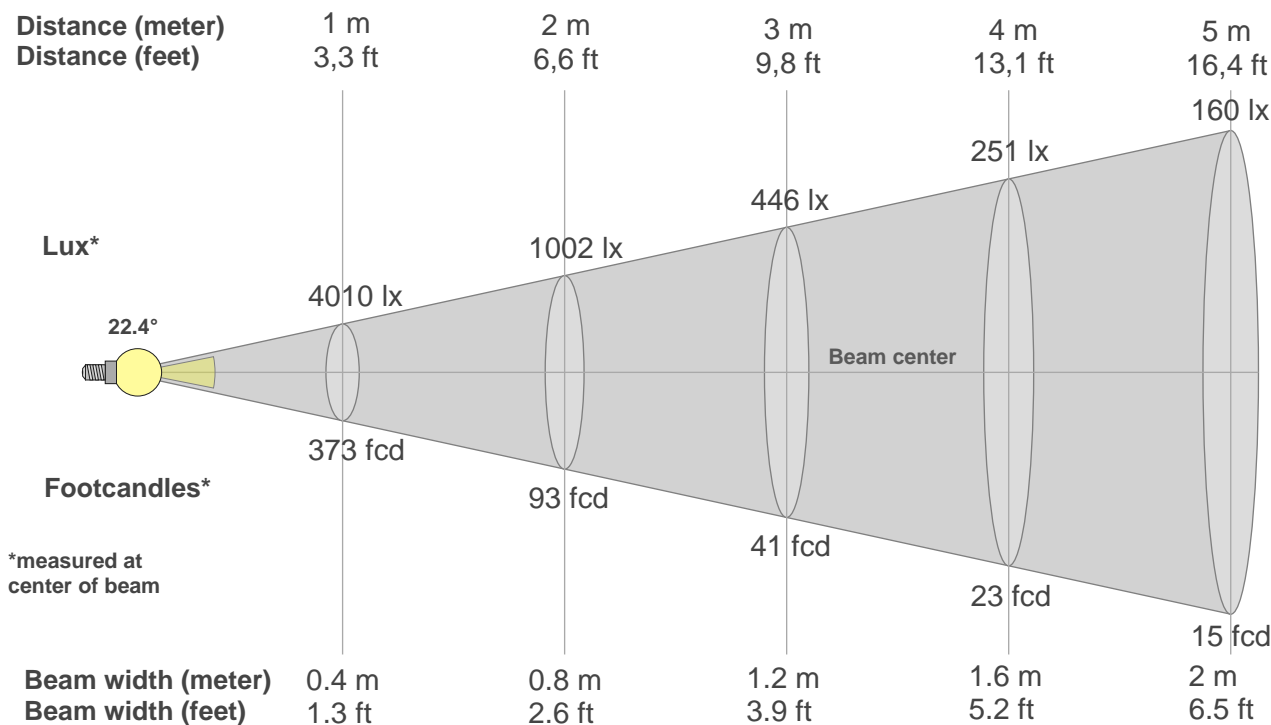


Color distortion



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
4010lx	1002lx	446lx	251lx	160lx	111lx	82lx	63lx	50lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
372.5fcd	93.1fcd	41.4fcd	23.3fcd	14.9fcd	10.3fcd	7.6fcd	5.8fcd	4.6fcd	3.7fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd

#### 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°
4010	3876	3616	3227	2803	2381	1981	1618	1312	1052	833	649	497	370	272	198	144	105	79	59
100%	97%	90%	80%	70%	59%	49%	40%	33%	26%	21%	16%	12%	9%	7%	5%	4%	3%	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°
4010	3973	3646	3187	2665	2149	1692	1331	1044	814	628	473	342	240	164	111	75	52	36	26
100%	99%	91%	79%	66%	54%	42%	33%	26%	20%	16%	12%	9%	6%	4%	3%	2%	1%	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°
4010	3876	3634	3272	2837	2397	1980	1607	1283	1007	781	602	453	332	239	170	125	93	69	51
100%	97%	91%	82%	71%	60%	49%	40%	32%	25%	19%	15%	11%	8%	6%	4%	3%	2%	2%	1%

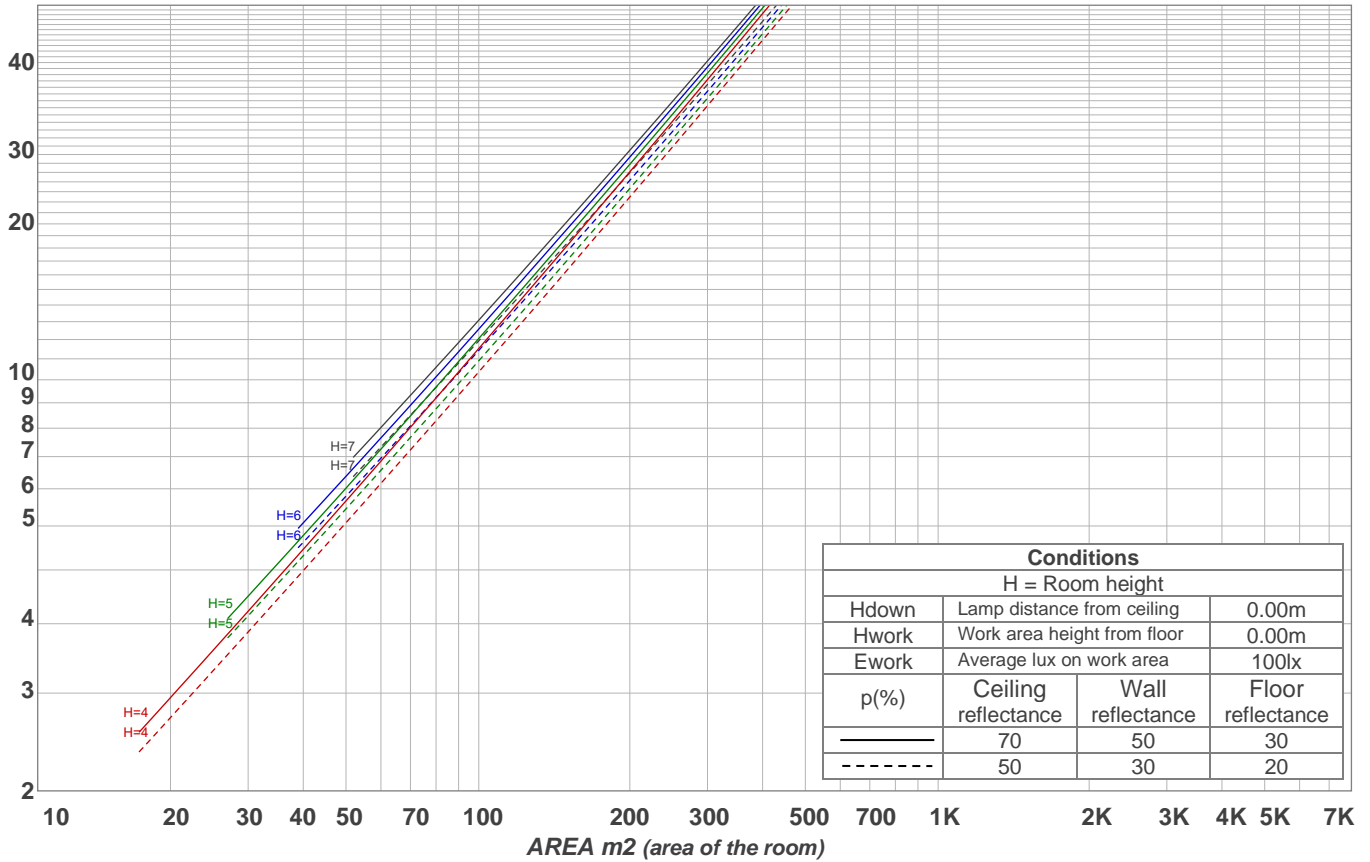
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4010	3893	3551	3097	2603	2132	1735	1406	1140	928	756	613	487	372	269	185	122	84	59	42
100%	97%	89%	77%	65%	53%	43%	35%	28%	23%	19%	15%	12%	9%	7%	5%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.4°	49.4°	65.7°	98.9%	97.8%

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	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	107	102	98	94	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88	88	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	85
5	100	93	89	85	98	92	88	85	91	87	84	89	86	84	88	85	83	82	82	82	82
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	79	79	79
7	93	86	82	79	92	86	82	78	85	81	78	84	80	78	83	80	77	76	76	76	76
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74	74	74	74
9	88	81	76	73	87	80	76	73	79	76	73	79	75	73	78	75	73	72	72	72	72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69	69	69	69

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
287 lm	371 lm	180 lm	48.4 lm	13.2 lm	5.37 lm	4.09 lm	2.78 lm	2.99 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

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