

Light efficiency:



Output: 754 lm

Light quality:

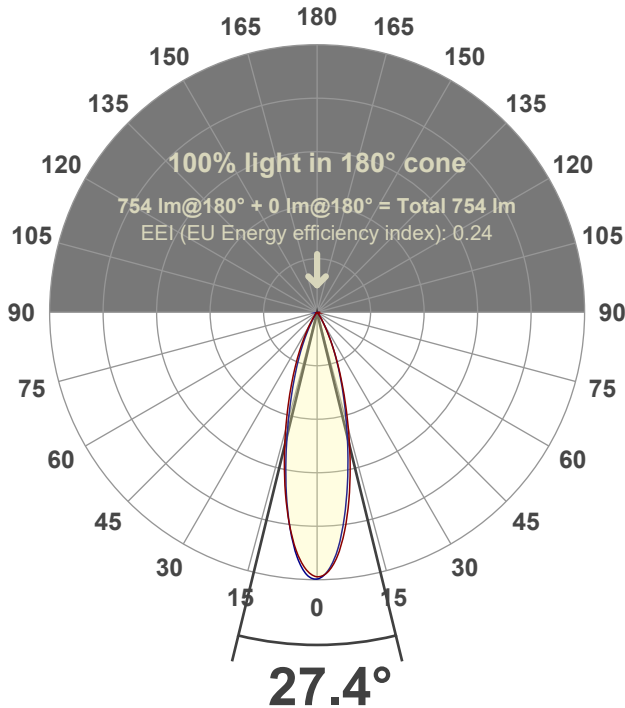


Peak: 2629 cd

Power: 14.6 W



Beam angle



Test number:

GR-F-A14-3019-NF-SQ-91A-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-3019 24° Optic-Solite

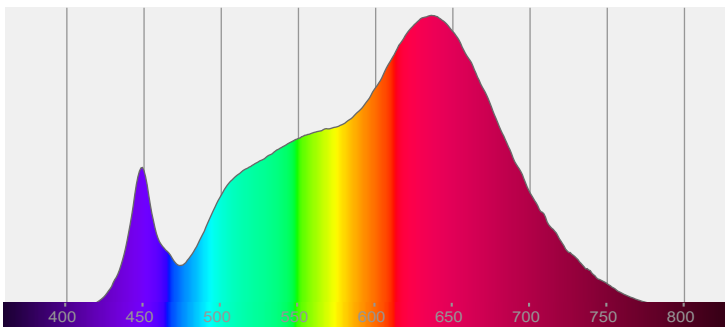
Date and time:

6/30/2022 12:48:13 PM

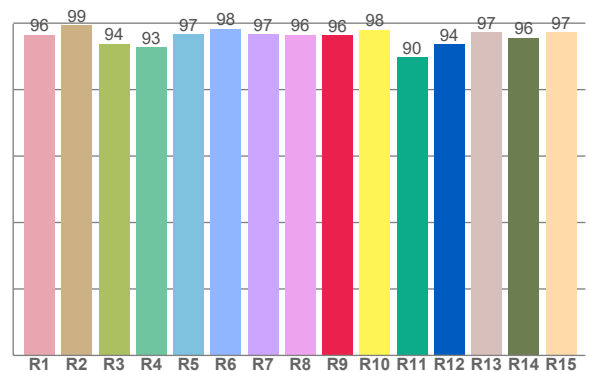
Delivered Lumens

754

Spectra



CRI: 96.3 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
96.3	96.4	95.3	104.2	94.9	0.436	0.402	0.251	0.347	-0.0006

# R<sub>f</sub> 95.3

Fidelity index R<sub>f</sub>

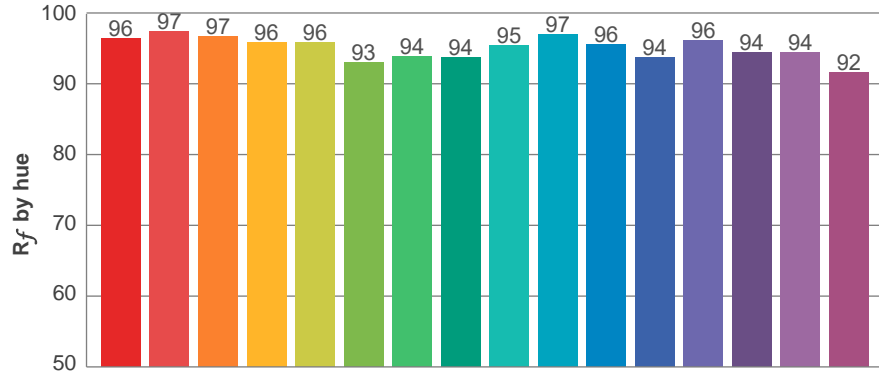
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# R<sub>g</sub> 104.2

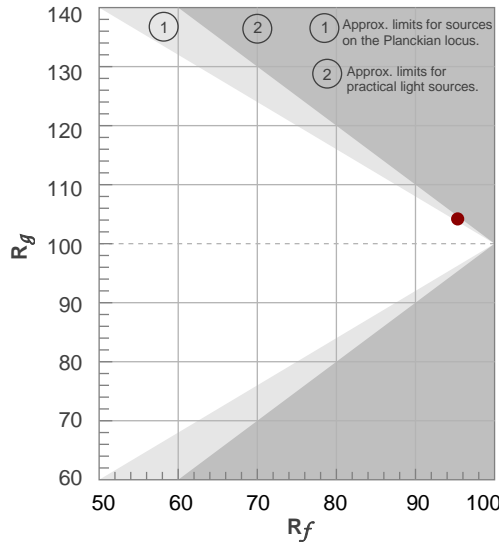
Gammut index R<sub>g</sub>

TM30: 95.3

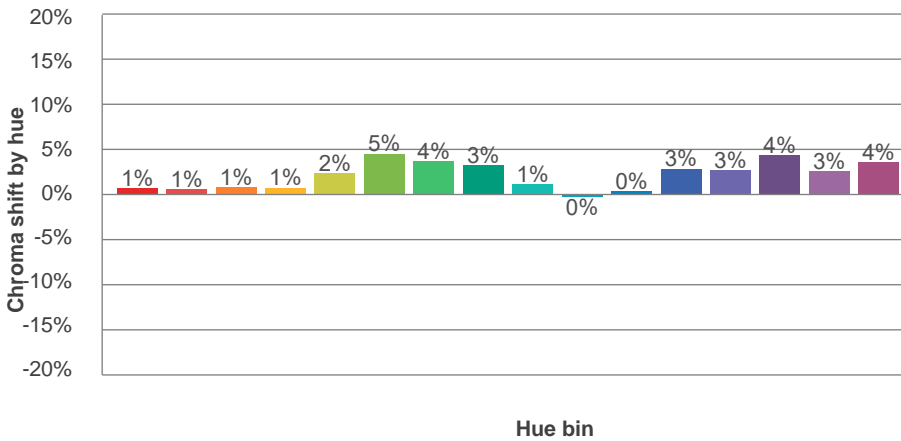
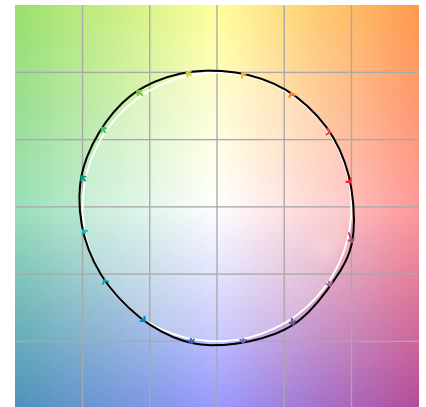
TM-30Color



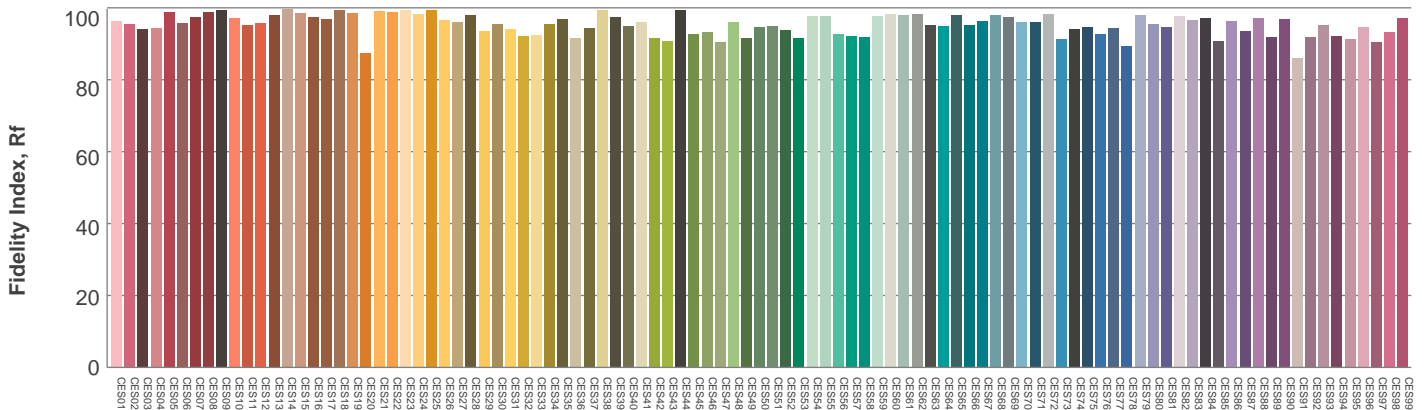
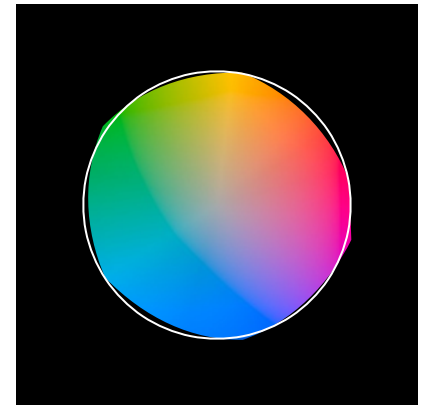
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	-1%
3	97	1%	1%
4	96	1%	1%
5	96	2%	3%
6	93	5%	1%
7	94	4%	-1%
8	94	3%	-2%
9	95	1%	-2%
10	97	0%	-1%
11	96	0%	2%
12	94	3%	1%
13	96	3%	-1%
14	94	4%	-2%
15	94	3%	-2%
16	92	4%	-6%



Color vector graphics

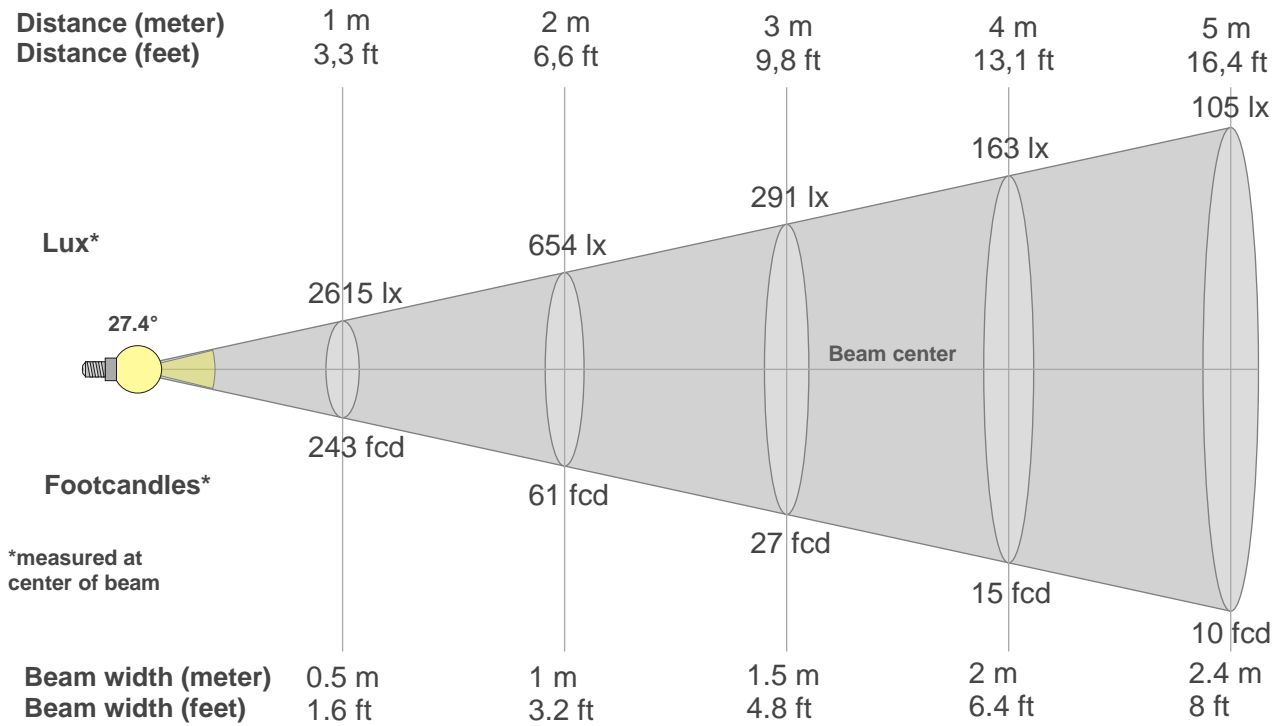


Color distortion



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
2615lx	654lx	291lx	163lx	105lx	73lx	53lx	41lx	32lx	26lx	22lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	7lx	7lx
242.9fcd	60.7fcd	27fcd	15.2fcd	9.7fcd	6.7fcd	5fcd	3.8fcd	3fcd	2.4fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd	0.6fcd

#### 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°
2615	2572	2462	2291	2075	1831	1573	1321	1088	878	696	539	409	304	220	156	111	81	60	44
100%	98%	94%	88%	79%	70%	60%	51%	42%	34%	27%	21%	16%	12%	8%	6%	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°
2615	2561	2425	2228	1985	1725	1469	1230	1017	828	661	521	403	299	212	142	94	66	45	31
100%	98%	93%	85%	76%	66%	56%	47%	39%	32%	25%	20%	15%	11%	8%	5%	4%	3%	2%	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°
2615	2550	2431	2258	2044	1806	1557	1320	1101	903	728	579	454	346	257	186	132	97	73	54
100%	98%	93%	86%	78%	69%	60%	50%	42%	35%	28%	22%	17%	13%	10%	7%	5%	4%	3%	2%

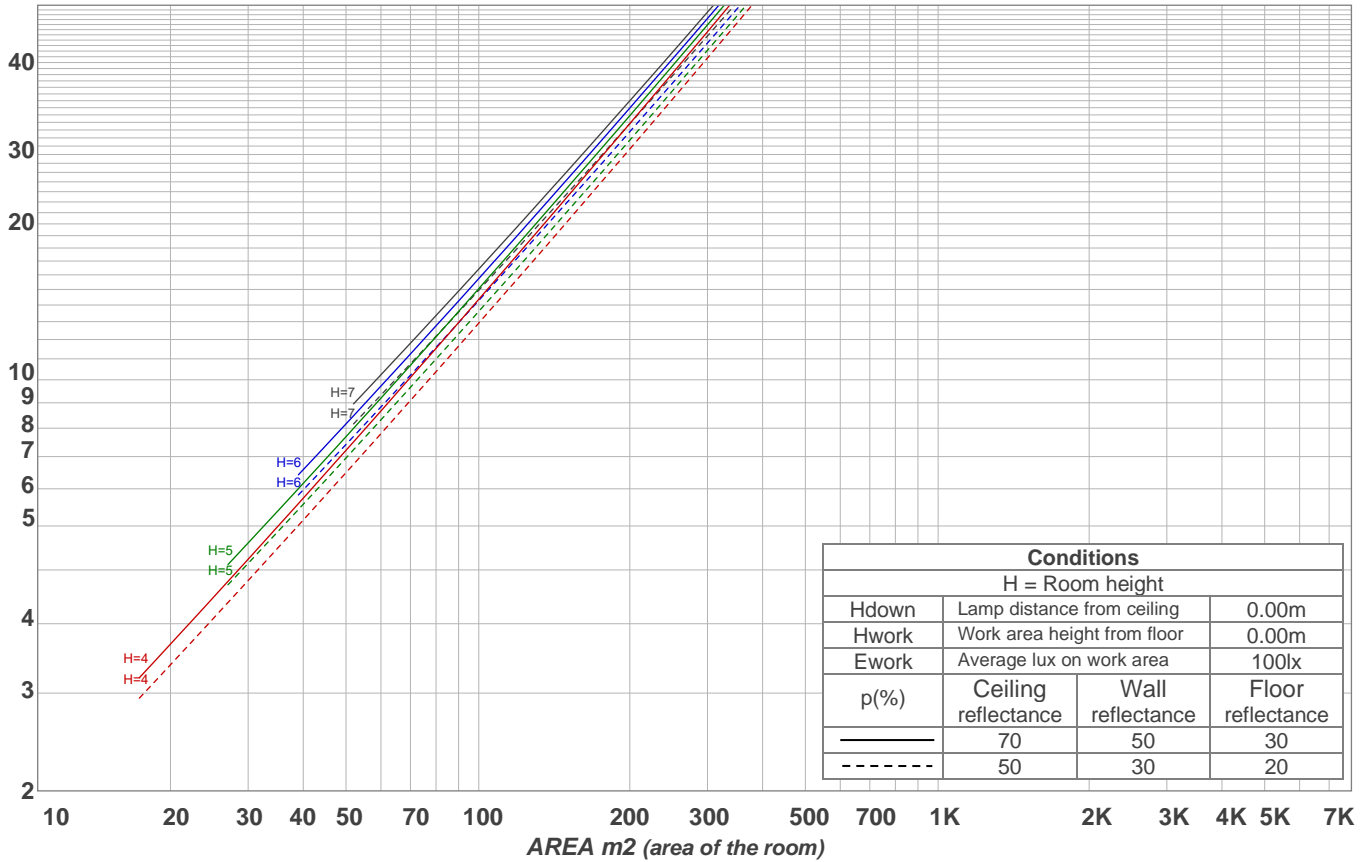
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2615	2595	2469	2275	2034	1764	1483	1219	987	787	618	476	357	256	175	117	78	54	39	28
100%	99%	94%	87%	78%	67%	57%	47%	38%	30%	24%	18%	14%	10%	7%	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
27.4°	53.7°	69.6°	99.0%	97.9%

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	0
Floor reflectance	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
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88
4	102	96	92	89	101	95	91	88	93	90	87	91	89	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78
7	92	85	81	77	91	85	80	77	83	80	77	82	79	76	81	78	76	75
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	68	67

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
206 lm	317 lm	164 lm	43.3 lm	11.1 lm	4.44 lm	3.11 lm	2.11 lm	2.20 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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