

Light efficiency:



Output: 1231 lm

Light quality:

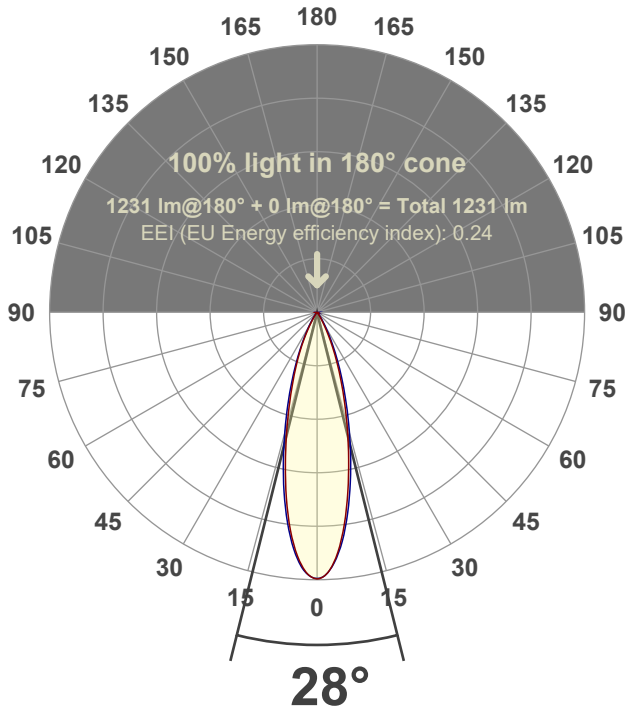


Peak: 4165 cd

Power: 21.2 W



Beam angle



Test number:

GR-F-A20-3019-NF-SQ-91A-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A20-3019 24° Optic-Solite

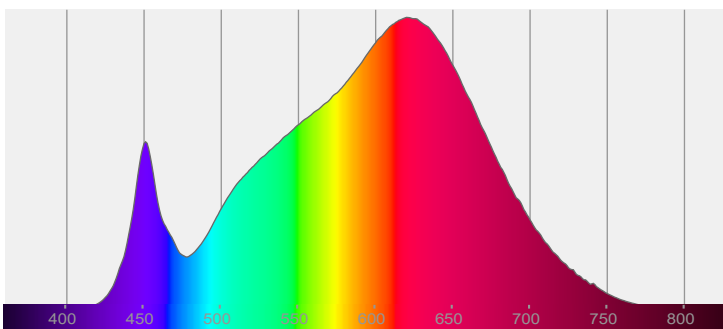
Date and time:

6/21/2022 8:33:44 PM

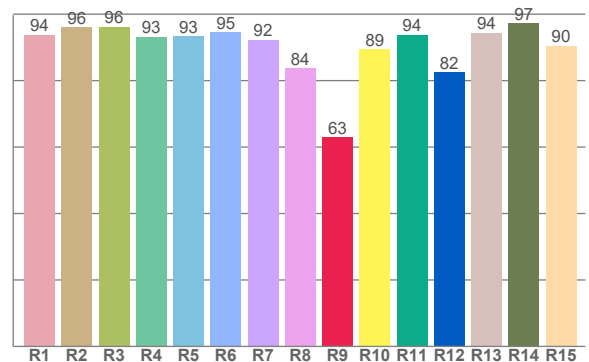
Delivered Lumens

1231

Spectra



CRI: 92.9 (R1-R8)



Color parameters

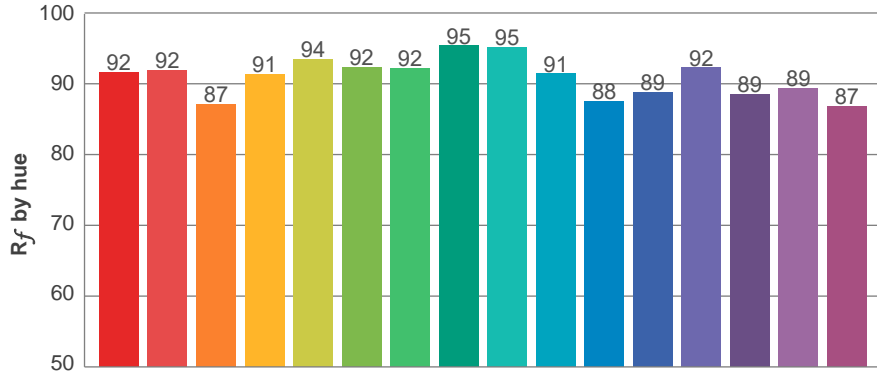
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
92.9	62.9	91.0	101.7	89.8	0.434	0.397	0.252	0.345	-0.0025

R_f 91.0
Fidelity index R_f

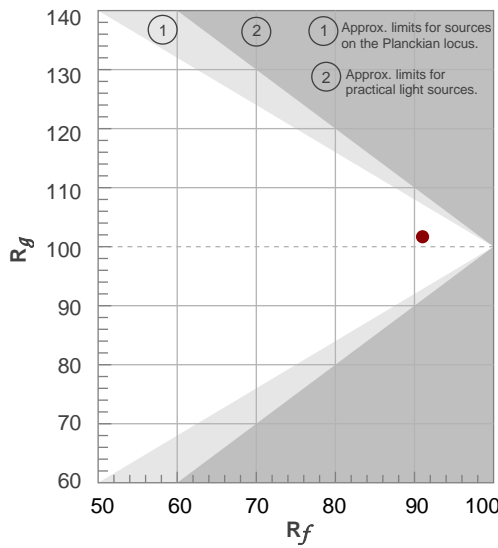
R_g 101.7
Gammut index R_g

TM30: 91.0

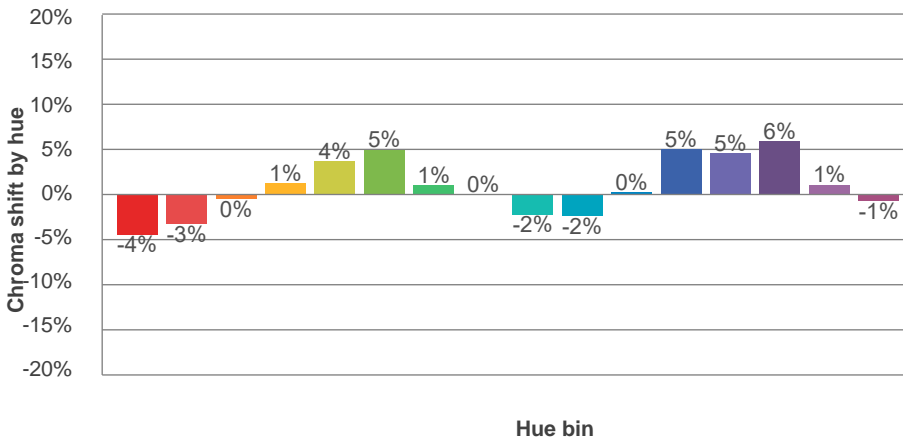
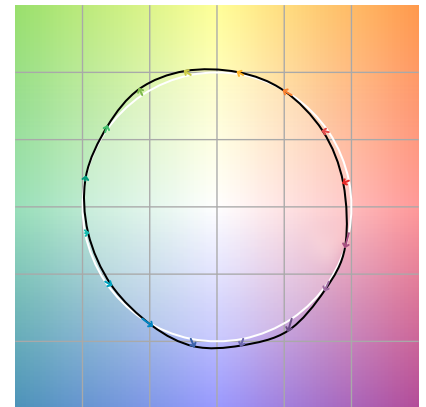
TM-30Color



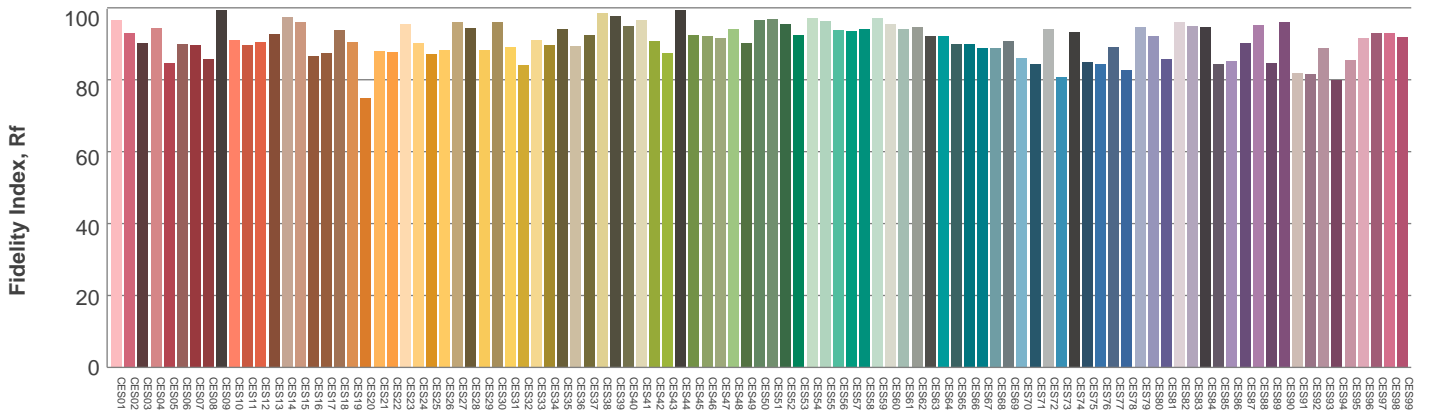
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	0%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-4%
8	95	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



Color vector graphics

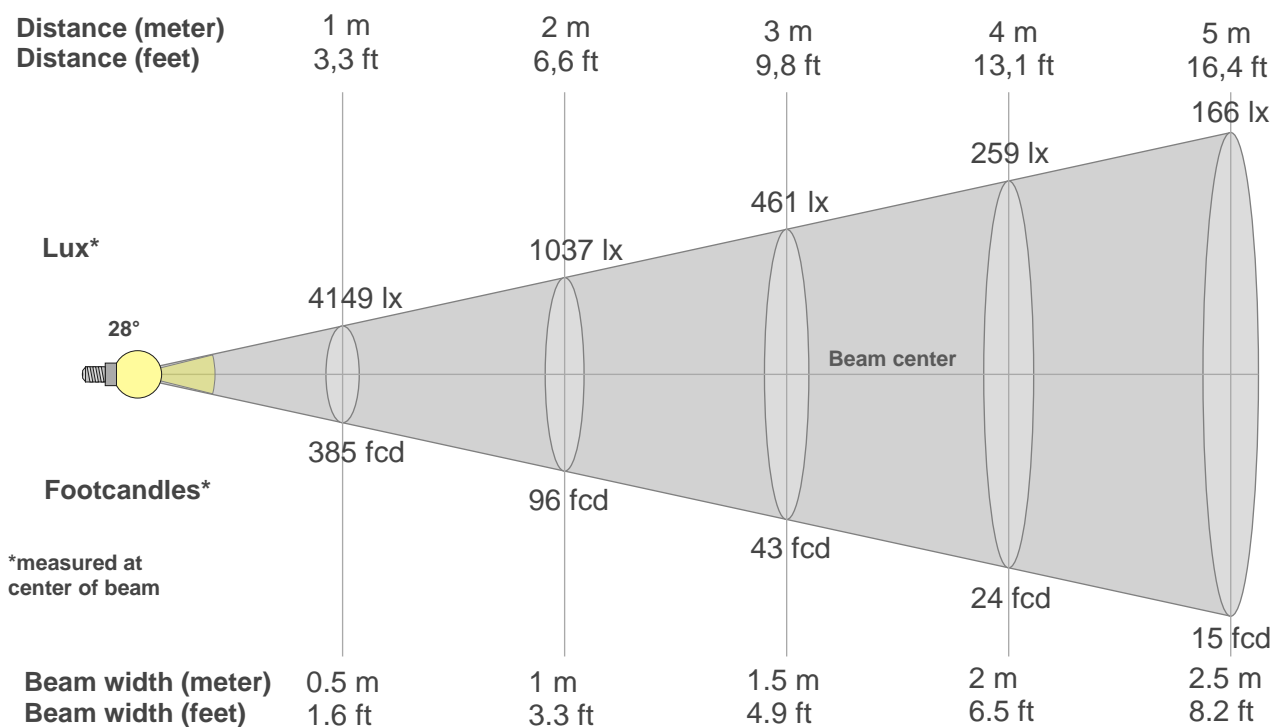


Color distortion



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
4149lx	1037lx	461lx	259lx	166lx	115lx	85lx	65lx	51lx	41lx	34lx	29lx	25lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx
385.4fcd	96.4fcd	42.8fcd	24.1fcd	15.4fcd	10.7fcd	7.9fcd	6fcd	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°
4149	4081	3879	3577	3204	2792	2378	1995	1643	1328	1052	813	608	436	300	201	134	92	63	44
100%	98%	94%	86%	77%	67%	57%	48%	40%	32%	25%	20%	15%	11%	7%	5%	3%	2%	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°
4149	4083	3912	3638	3293	2916	2531	2152	1788	1463	1183	937	724	544	399	286	206	150	110	82
100%	98%	94%	88%	79%	70%	61%	52%	43%	35%	29%	23%	17%	13%	10%	7%	5%	4%	3%	2%

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°
4149	4089	3887	3593	3228	2816	2389	1991	1638	1329	1067	845	652	483	341	232	156	106	73	53
100%	99%	94%	87%	78%	68%	58%	48%	39%	32%	26%	20%	16%	12%	8%	6%	4%	3%	2%	1%

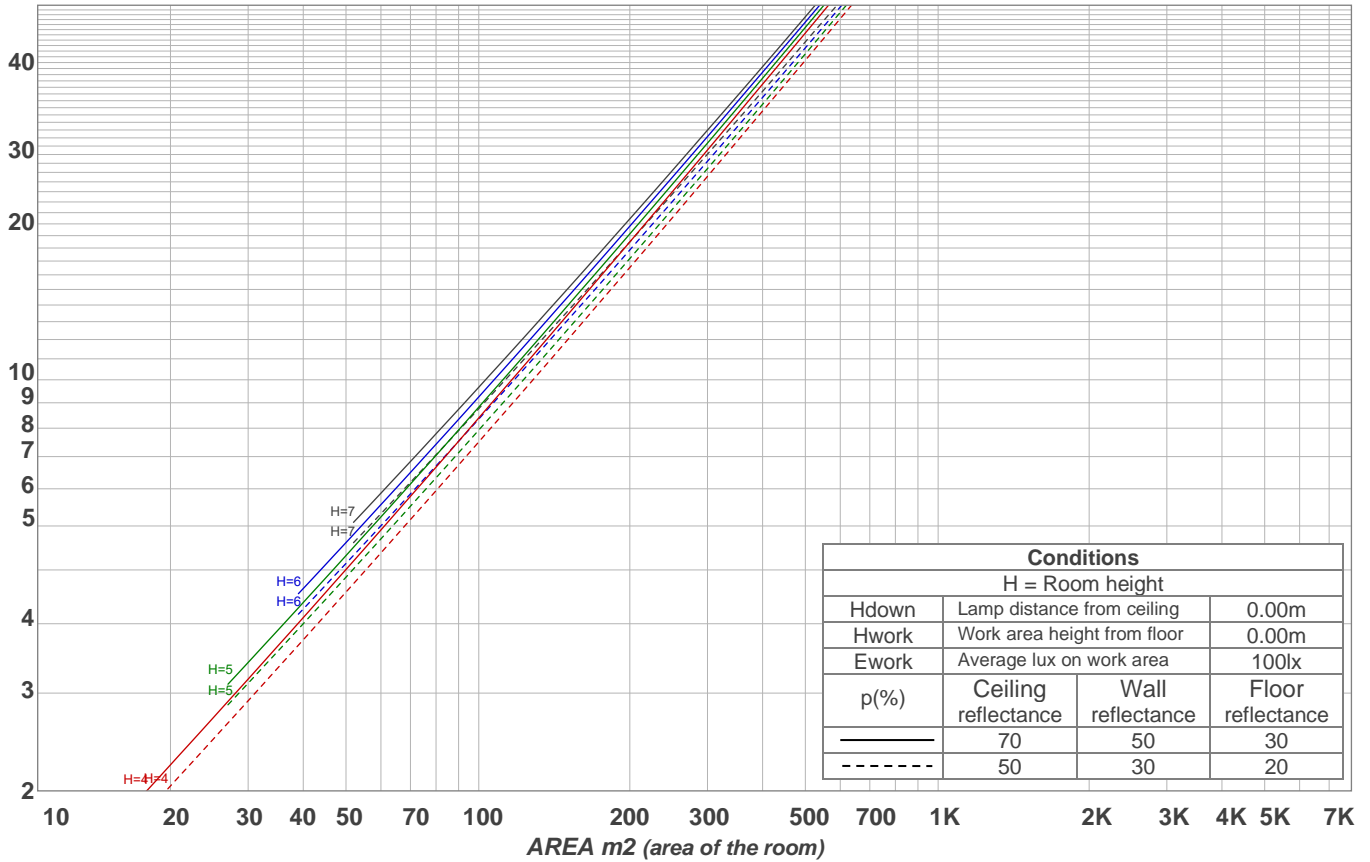
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4149	4082	3920	3659	3323	2941	2545	2155	1790	1461	1167	923	714	538	395	283	202	150	112	85
100%	98%	94%	88%	80%	71%	61%	52%	43%	35%	28%	22%	17%	13%	10%	7%	5%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28°	54.3°	70.2°	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	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91	95	92	90	93	91	89	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	82	87	84	82	80
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75
8	89	82	77	74	88	81	77	74	80	76	74	79	76	73	79	75	73	72
9	86	79	74	71	85	78	74	71	78	74	71	77	73	71	76	73	70	69
10	84	76	72	69	83	76	72	69	75	71	68	74	71	68	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°
330 lm	518 lm	272 lm	72.0 lm	19.4 lm	6.95 lm	5.22 lm	3.75 lm	3.71 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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