

Light efficiency:



Output: 1314 lm

Light quality:

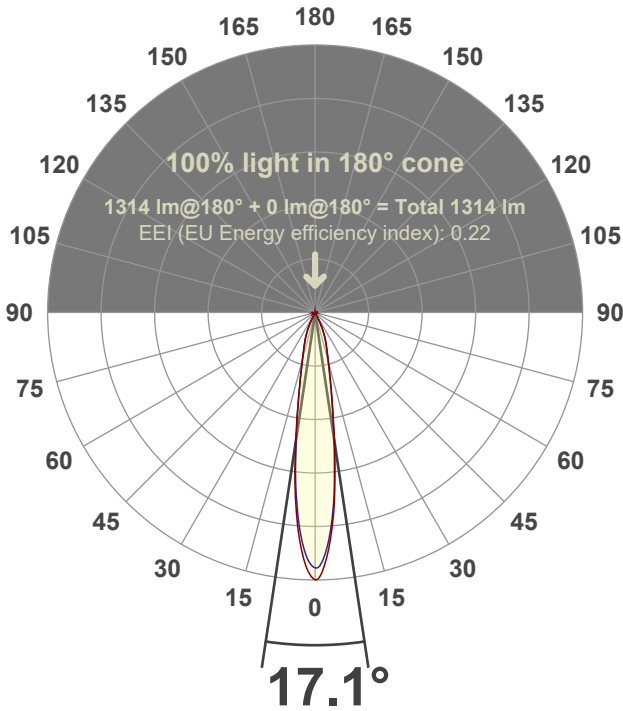


Peak: 9197 cd

Power: 21.2 W



Beam angle



Test number:

GR-F-A20-3019-SP-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A20-3019 15° Optic

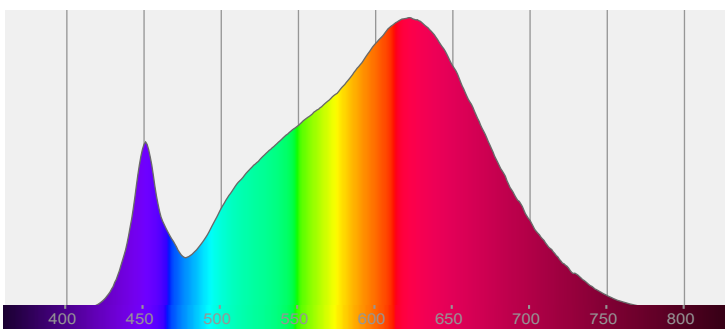
Date and time:

6/21/2022 8:49:47 PM

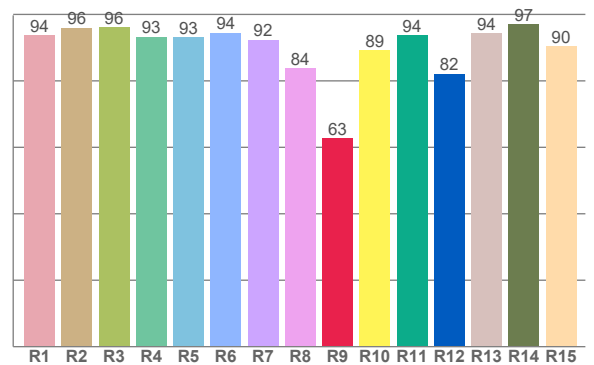
Delivered Lumens

1314

Spectra



CRI: 92.8 (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
	92.8	62.8	91.0	101.6	89.9	0.434	0.397	0.252	0.346	-0.0023

R_f 91.0

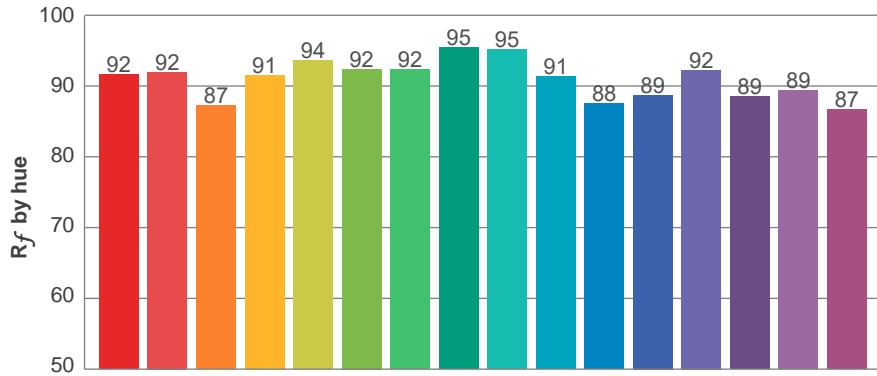
Fidelity index R_f

R_g 101.6

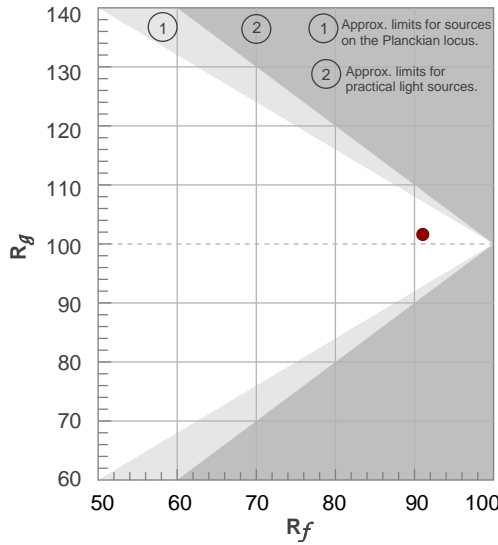
Gammut index R_g

TM30: 91.0

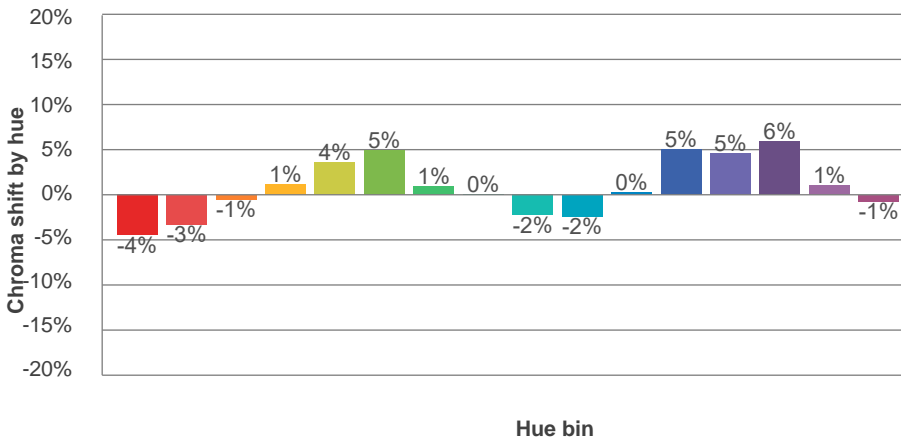
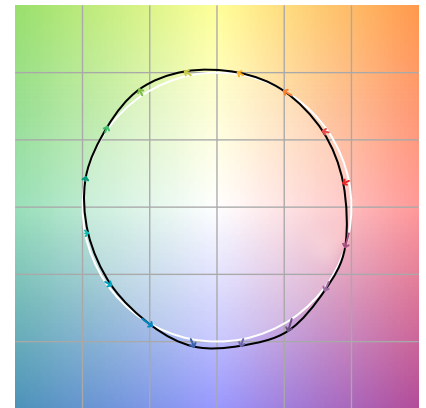
TM-30Color



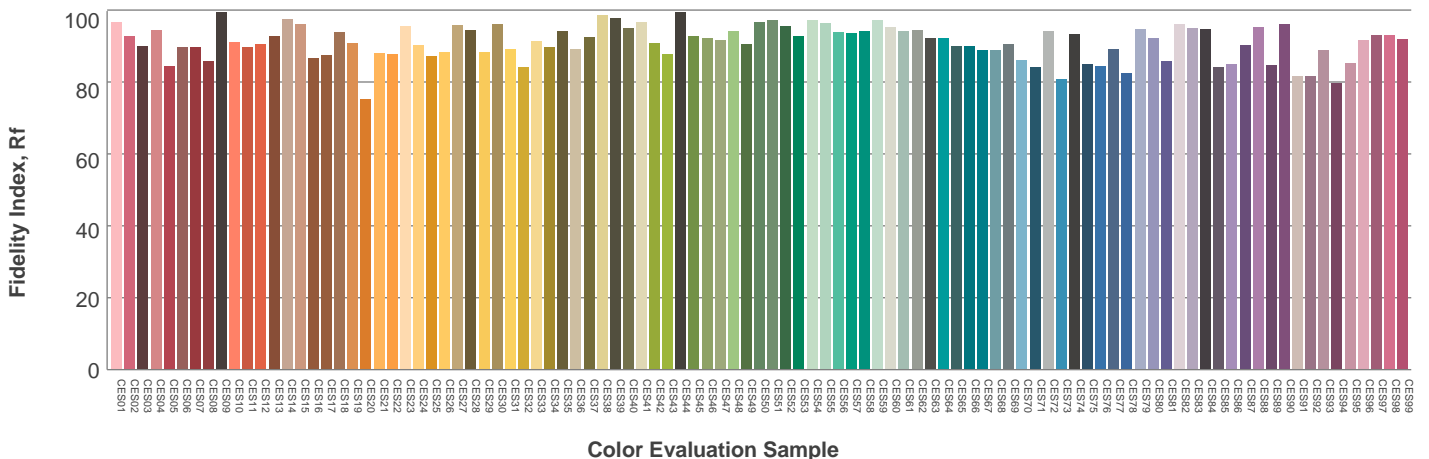
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	4%
5	94	4%	4%
6	92	5%	-1%
7	92	1%	-4%
8	95	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	88	0%	9%
12	89	5%	3%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



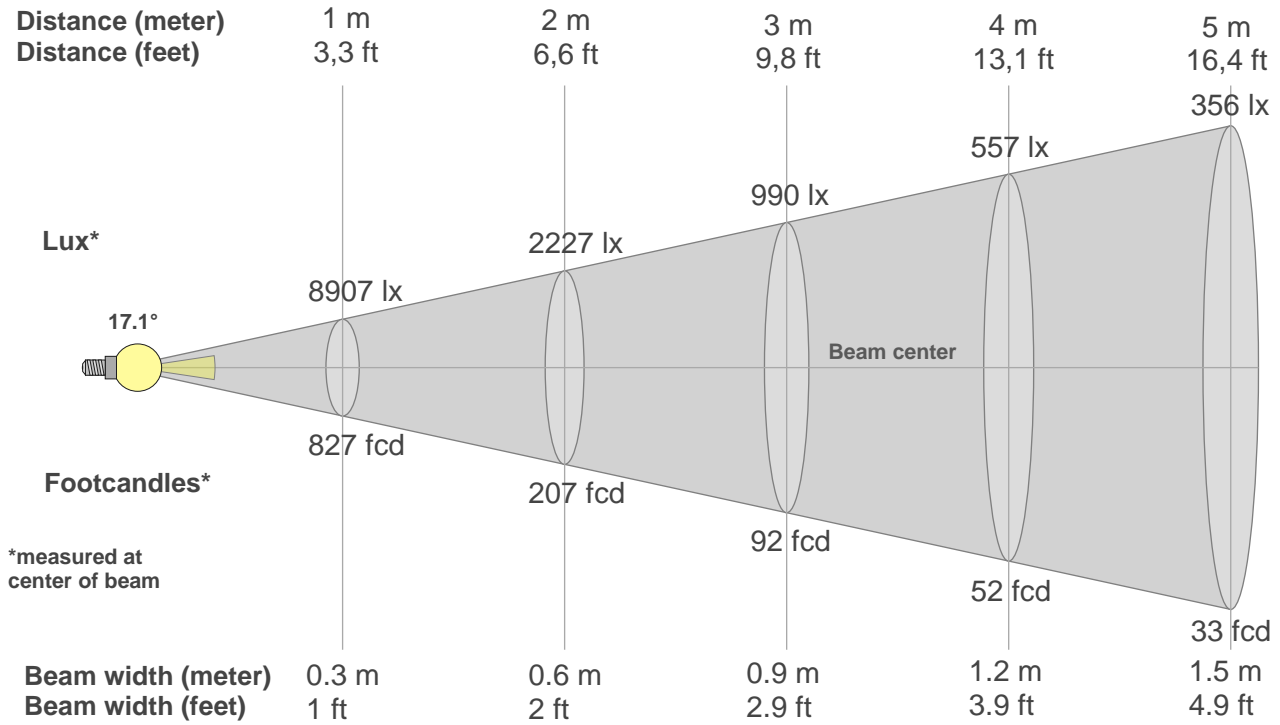
Color vector graphics



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
8907lx	2227lx	990lx	557lx	356lx	247lx	182lx	139lx	110lx	89lx	74lx	62lx	53lx	45lx	40lx	35lx	31lx	27lx	25lx	22lx
827.5fcd	206.9fcd	91.9fcd	51.7fcd	33.1fcd	23fcd	16.9fcd	12.9fcd	10.2fcd	8.3fcd	6.8fcd	5.7fcd	4.9fcd	4.2fcd	3.7fcd	3.2fcd	2.9fcd	2.6fcd	2.3fcd	2.1fcd

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°
8907	8680	7713	6419	4916	3631	2717	2071	1627	1324	1103	897	677	448	232	66	24	13	11	10
100%	97%	87%	72%	55%	41%	31%	23%	18%	15%	12%	10%	8%	5%	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°
8907	8376	7510	6273	4760	3552	2661	2024	1578	1272	1052	840	612	388	197	54	24	15	12	9
100%	94%	84%	70%	53%	40%	30%	23%	18%	14%	12%	9%	7%	4%	2%	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°
8907	8758	7777	6449	4975	3611	2571	1913	1516	1228	999	787	564	336	149	50	19	14	12	11
100%	98%	87%	72%	56%	41%	29%	21%	17%	14%	11%	9%	6%	4%	2%	1%	0%	0%	0%	0%

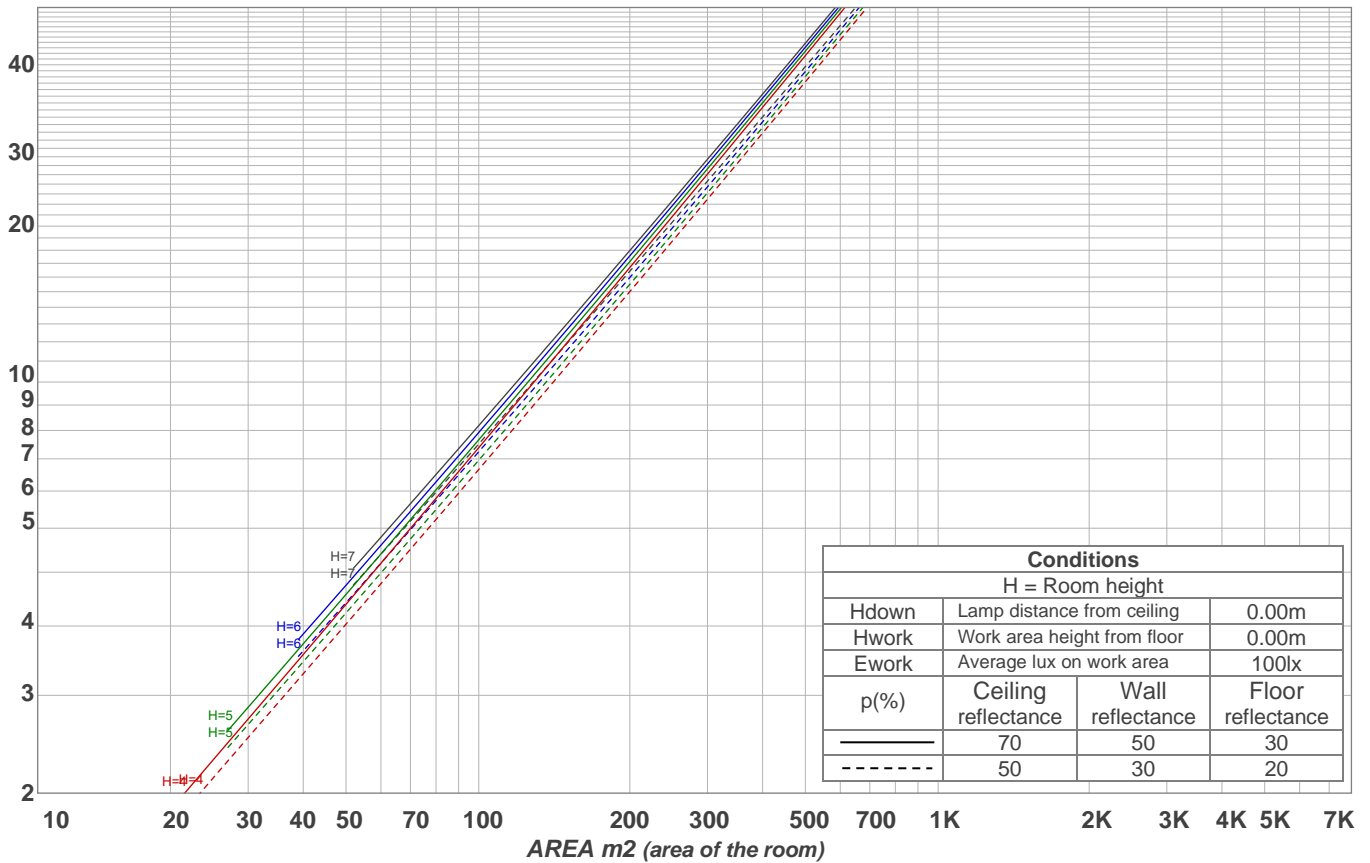
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8907	8389	7515	6245	4826	3558	2603	1948	1542	1259	1037	833	617	392	201	76	21	16	12	10
100%	94%	84%	70%	54%	40%	29%	22%	17%	14%	12%	9%	7%	4%	2%	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
17.1°	42.9°	55.3°	99.2%	98.8%

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	
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	96	
2	111	108	105	103	109	106	104	101	103	101	99	100	99	97	98	96	95	94	93	92	
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	90	89	
4	105	100	96	93	104	99	95	93	97	94	92	95	93	91	93	91	90	89	88	87	
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86	85	84	
6	100	94	90	87	98	93	89	87	92	88	86	90	88	85	89	87	85	84	83	82	
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	81	80	
8	95	88	85	82	94	88	84	82	87	84	81	86	83	81	85	83	81	80	79	78	
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78	77	76	
10	90	84	80	78	90	84	80	78	83	80	78	82	79	77	82	79	77	76	75	74	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
552 lm	511 lm	223 lm	9.93 lm	4.56 lm	2.88 lm	3.12 lm	3.37 lm	3.70 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