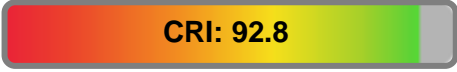


Light efficiency:



Output: 1263 lm

Light quality:

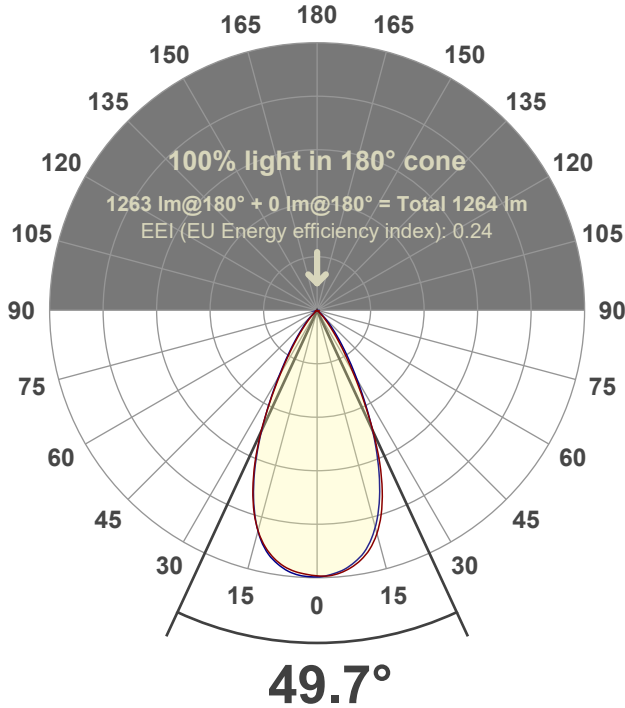


Peak: 1813 cd

Power: 21.3 W



Beam angle



Test number:

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

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A20-3019 60° Optic-Solite

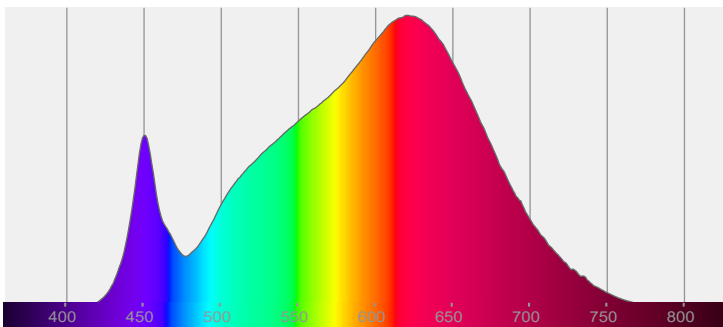
Date and time:

6/21/2022 7:50:28 PM

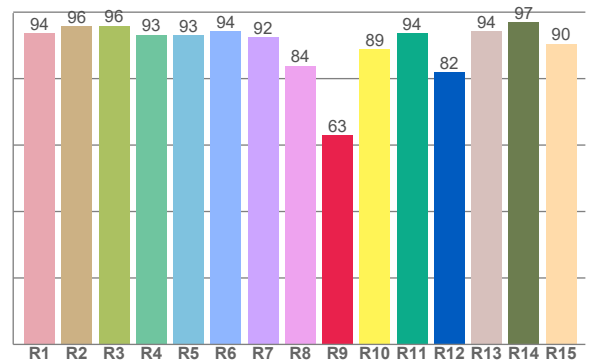
Delivered Lumens

1263

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 divition from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
92.8	63.0	90.9	101.8	89.8	0.433	0.397	0.251	0.345	-0.0023

R_f 90.9

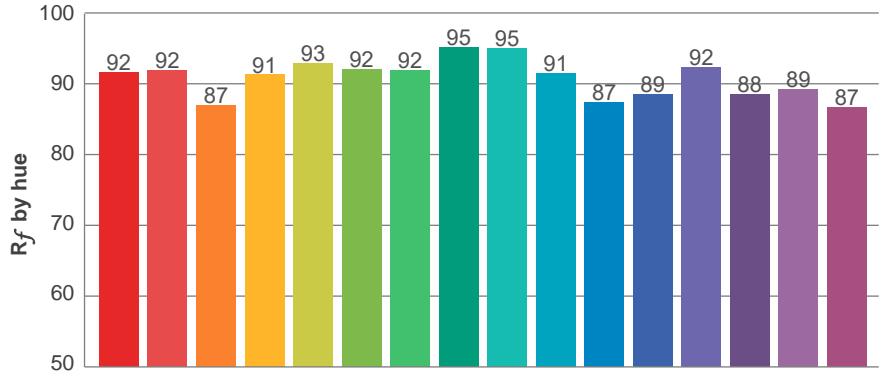
Fidelity index R_f

R_g 101.8

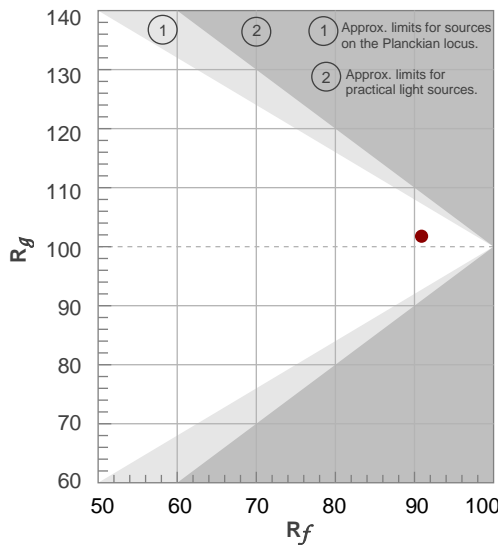
Gammut index R_g

TM30: 90.9

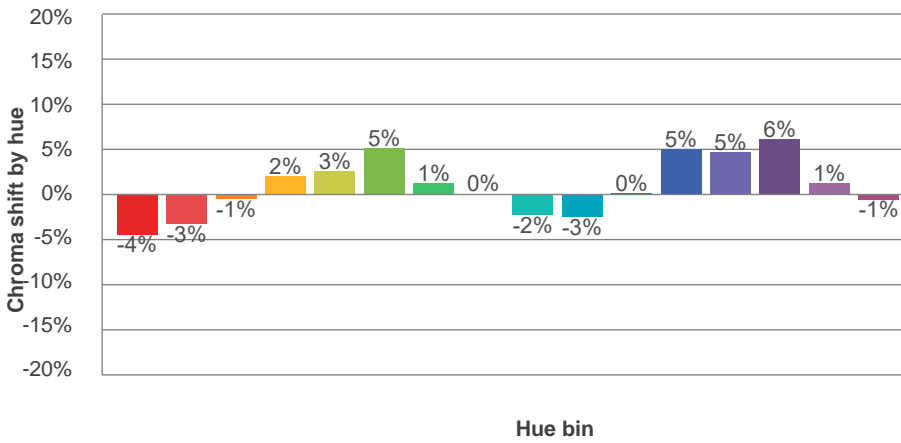
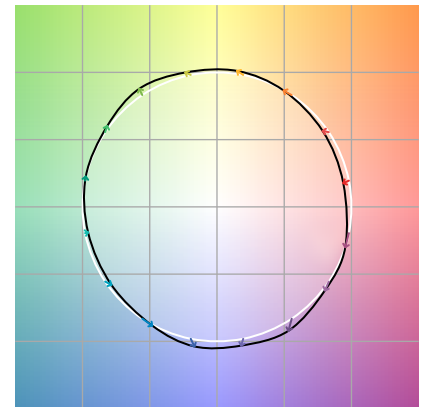
TM-30Color



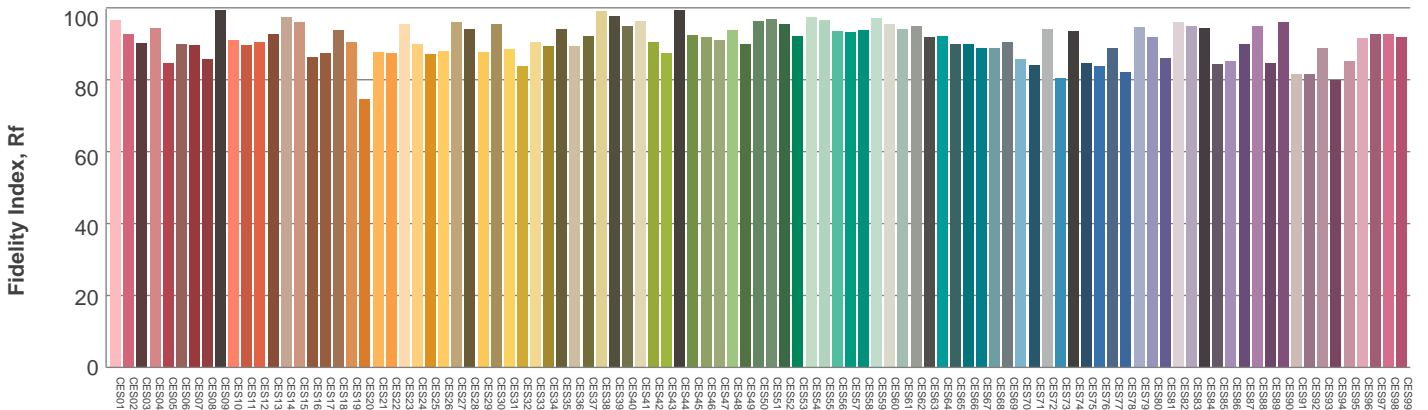
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	2%	5%
5	93	3%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	91	-3%	5%
11	87	0%	9%
12	89	5%	4%
13	92	5%	-2%
14	88	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



Color vector graphics

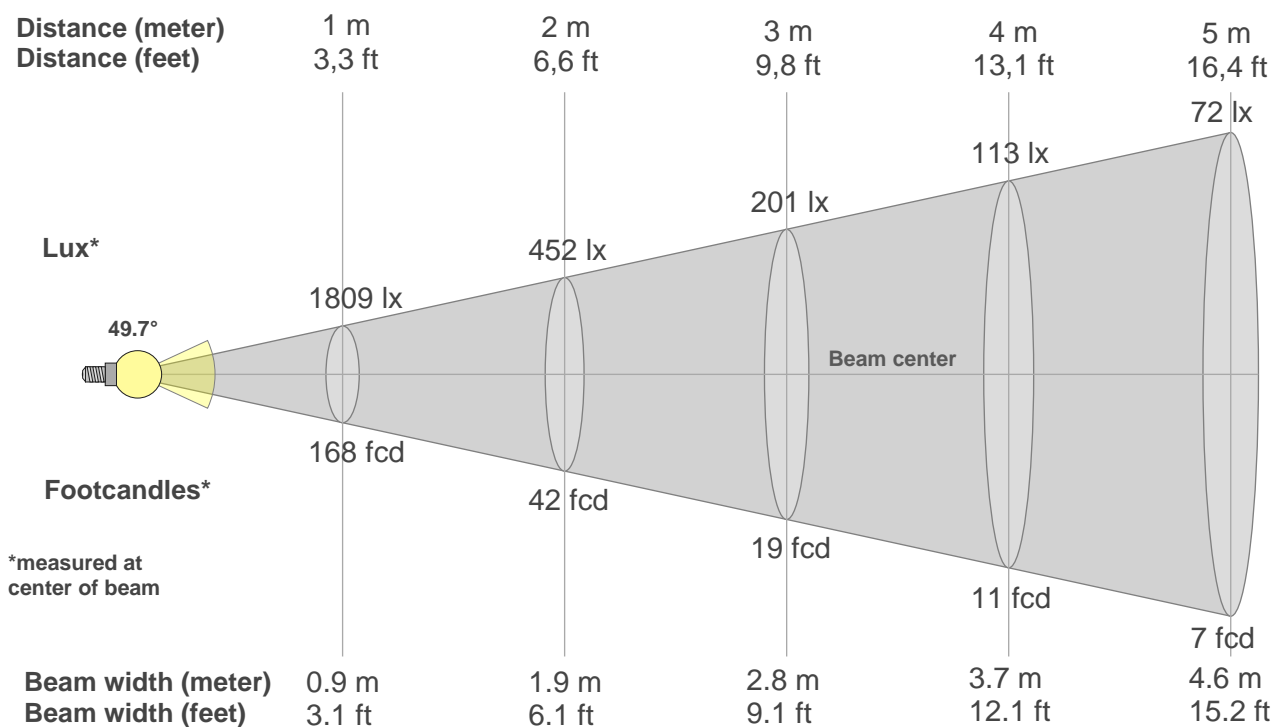


Color distortion



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
1809lx	452lx	201lx	113lx	72lx	50lx	37lx	28lx	22lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
168.1fcd	42fcd	18.7fcd	10.5fcd	6.7fcd	4.7fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.7fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1809	1808	1800	1783	1757	1724	1675	1609	1526	1423	1298	1150	984	811	646	502	388	298	225	167
100%	100%	99%	99%	97%	95%	93%	89%	84%	79%	72%	64%	54%	45%	36%	28%	21%	16%	12%	9%

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°
1809	1806	1791	1772	1740	1699	1644	1571	1482	1370	1243	1106	963	815	677	555	449	359	284	225
100%	100%	99%	98%	96%	94%	91%	87%	82%	76%	69%	61%	53%	45%	37%	31%	25%	20%	16%	12%

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°
1809	1798	1788	1771	1745	1709	1658	1590	1505	1402	1279	1137	980	815	654	510	395	305	232	173
100%	99%	99%	98%	96%	94%	92%	88%	83%	77%	71%	63%	54%	45%	36%	28%	22%	17%	13%	10%

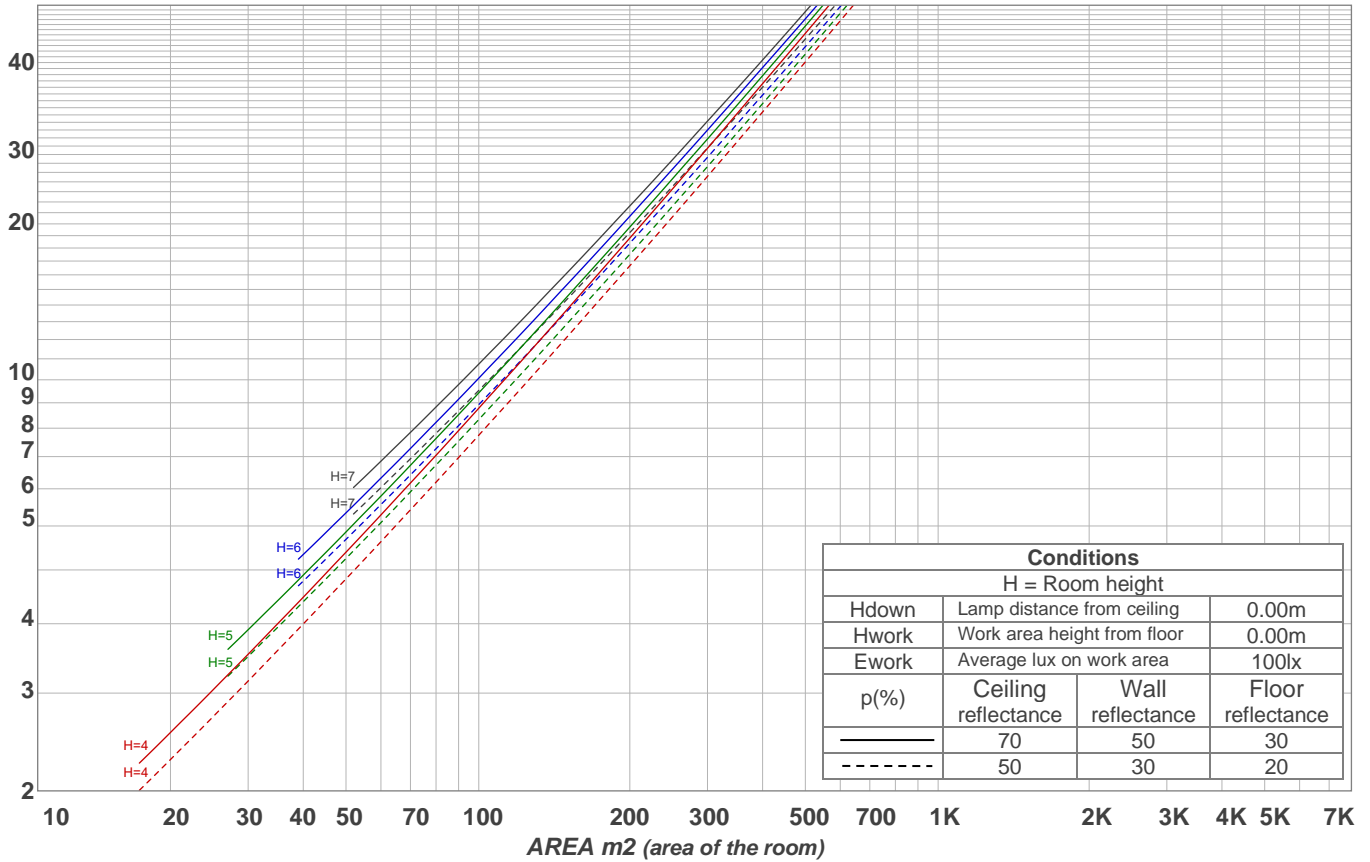
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1809	1812	1805	1789	1760	1721	1669	1599	1505	1392	1263	1120	966	809	665	535	423	333	260	203
100%	100%	100%	99%	97%	95%	92%	88%	83%	77%	70%	62%	53%	45%	37%	30%	23%	18%	14%	11%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49.7°	76.9°	94.8°	99.2%	96.6%

LAMPS (number of lamps)
50

Light planning Luminaire budgetary diagram



Conditions			
H = Room height			
Hdown	Lamp distance from ceiling	0.00m	
Hwork	Work area height from floor	0.00m	
Ework	Average lux on work area	100lx	
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
—————	70	50	30
- - - - -	50	30	20

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	84	82	79	78	78	78	
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73	73	73	
6	90	81	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69	69	69	
7	86	77	71	68	85	76	71	67	75	70	67	74	70	67	73	69	66	65	65	65	
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61	61	61	
9	79	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58	58	58	
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	57	55	55	55	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
168 lm	428 lm	403 lm	184 lm	57.5 lm	13.0 lm	5.23 lm	2.89 lm	2.31 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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