

Light efficiency:



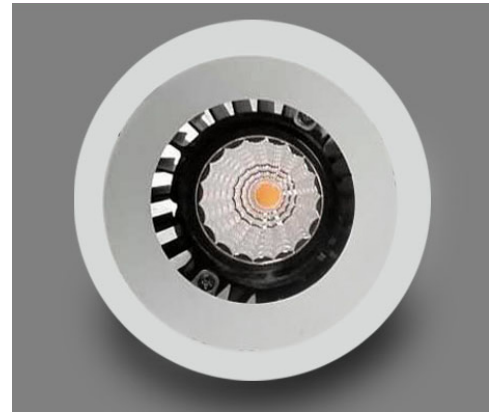
Light quality:



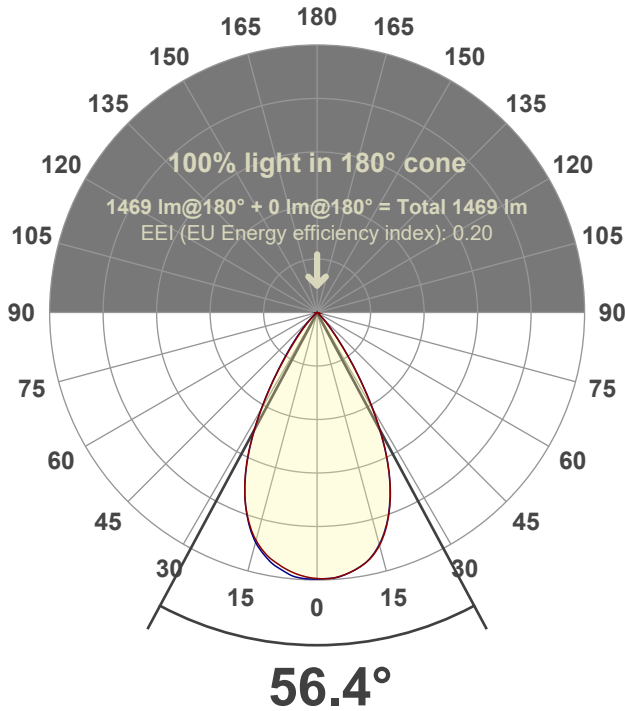
Output: 1469 lm

Peak: 1793 cd

Power: 21.3 W



Beam angle



Test number:

GR-O-F-A20-3019-WF-RD-91A-Rev2

Luminaire Model:

Graffiti Open Round Fixed Downlight-A20-3019 60° Optic-Solite

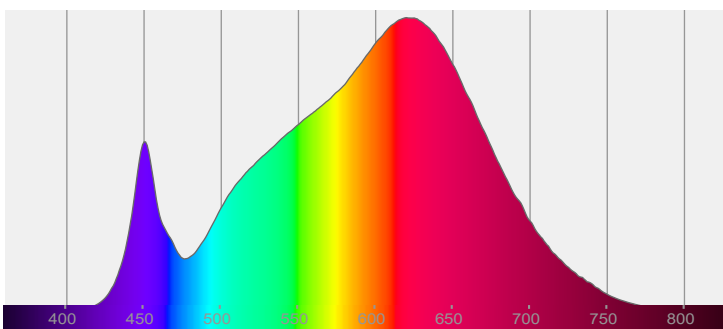
Date and time:

4/28/2022 8:22:42 PM

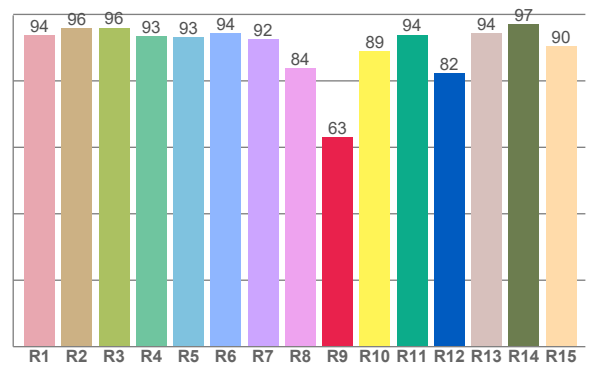
Delivered Lumens

1469

Spectra



CRI: 92.8 (R1-R8)



Color parameters

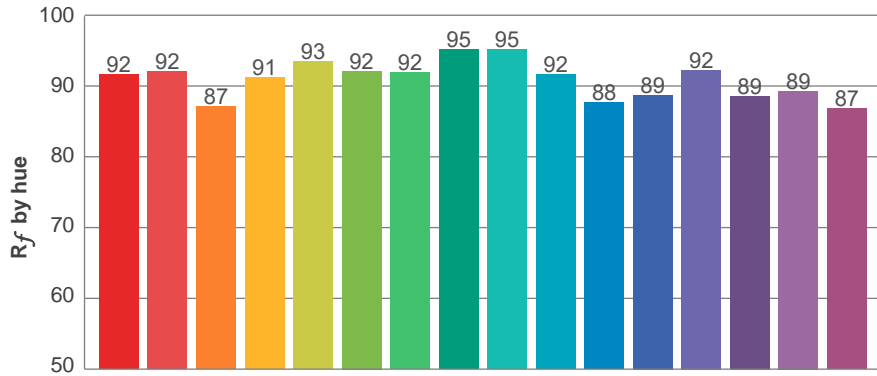
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	62.9	91.0	101.7	89.9	0.434	0.398	0.252	0.346	-0.0022

R_f 91.0
Fidelity index R_f

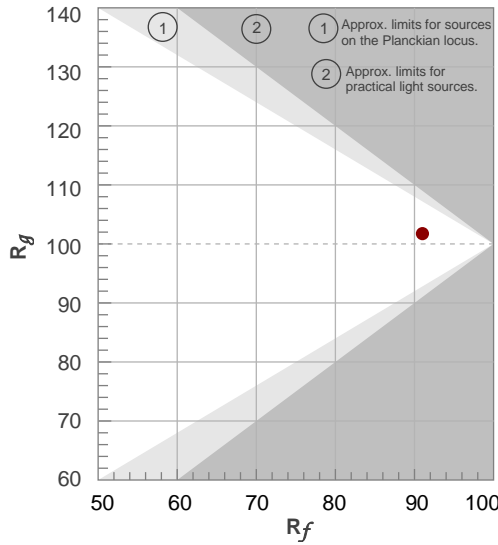
R_g 101.7
Gammut index R_g

TM30: 91.0

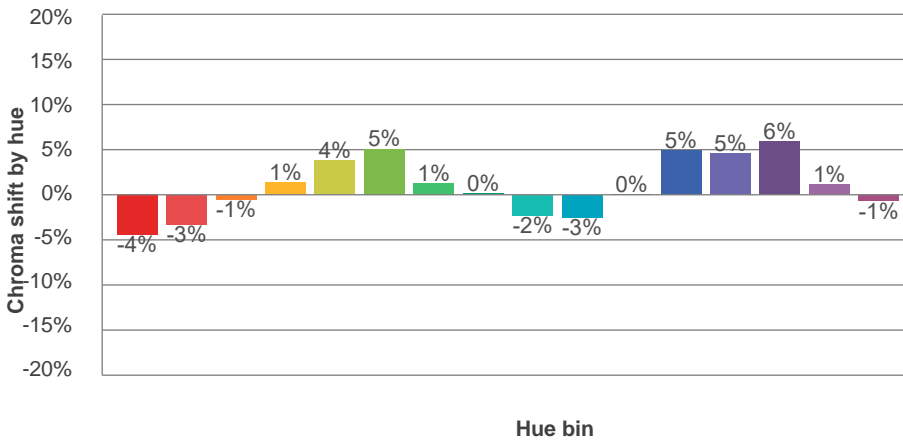
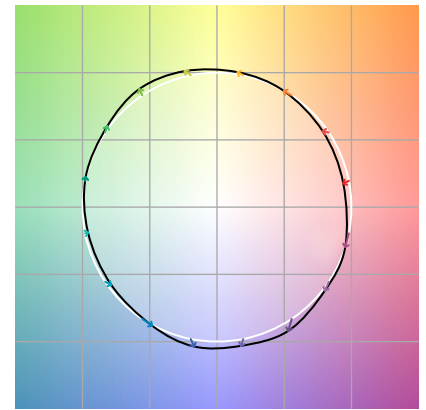
TM-30Color



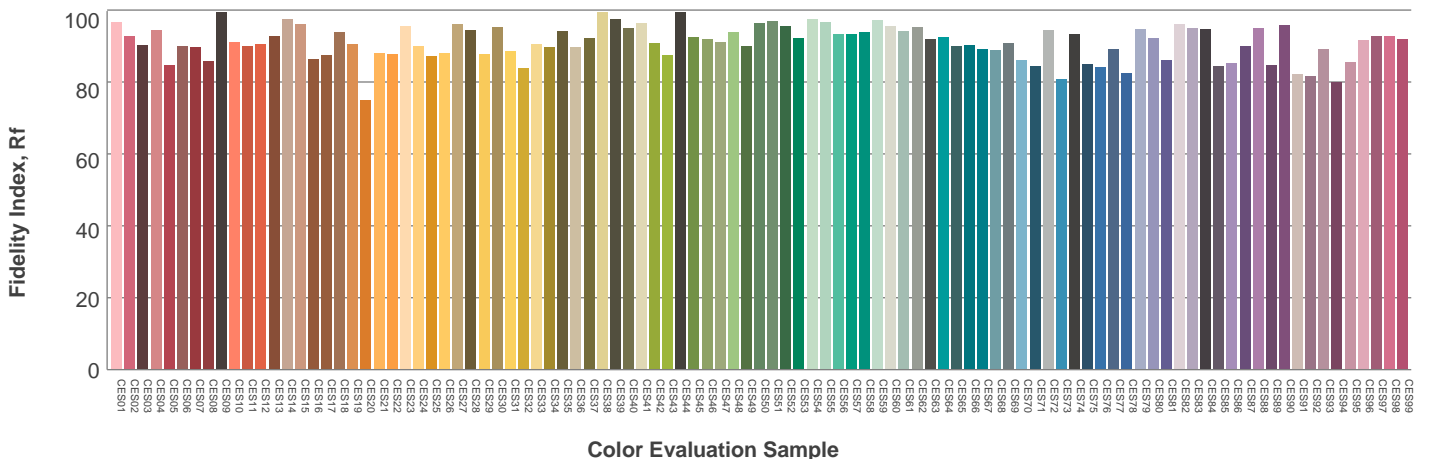
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	-1%	7%
4	91	1%	5%
5	93	4%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



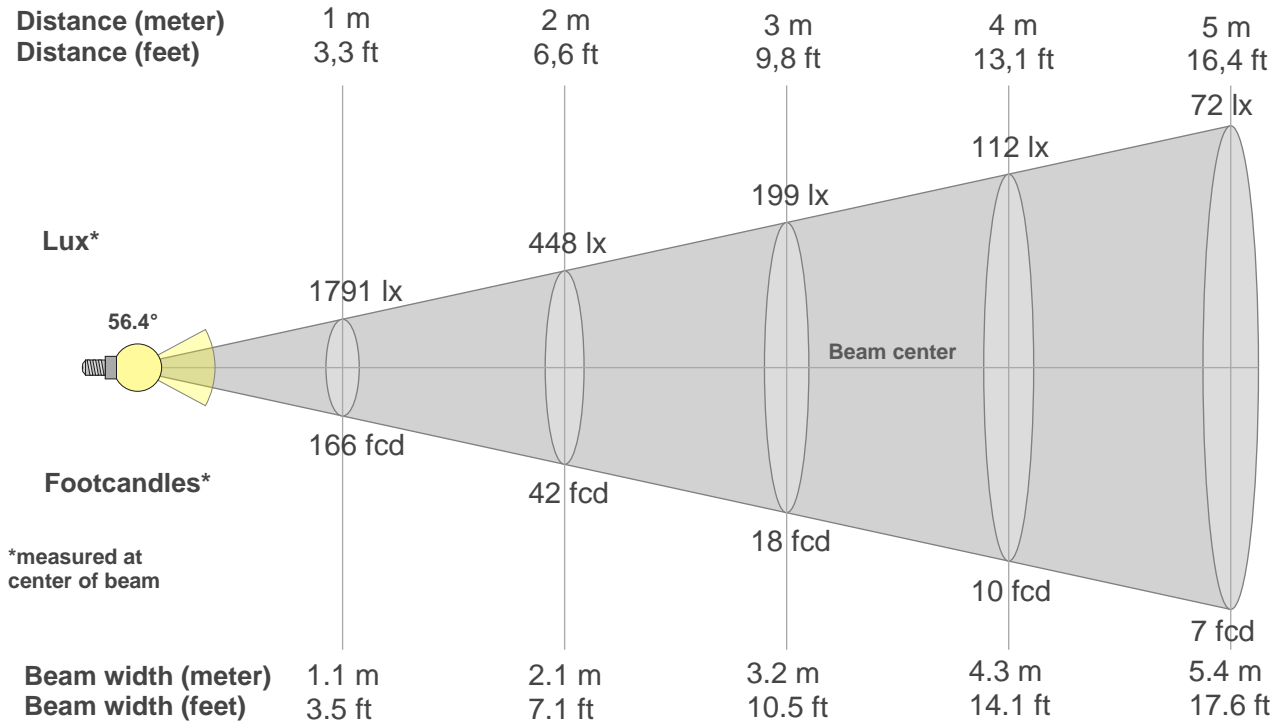
Color vector graphics



Color distortion



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
1791lx	448lx	199lx	112lx	72lx	50lx	37lx	28lx	22lx	18lx	15lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	4lx
166.4fcd	41.6fcd	18.5fcd	10.4fcd	6.7fcd	4.6fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	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°
1791	1791	1786	1773	1754	1730	1696	1649	1588	1512	1423	1318	1198	1064	915	756	595	455	333	234
100%	100%	100%	99%	98%	97%	95%	92%	89%	84%	79%	74%	67%	59%	51%	42%	33%	25%	19%	13%

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°
1791	1791	1787	1774	1753	1727	1694	1646	1582	1505	1415	1311	1194	1061	909	756	605	462	338	241
100%	100%	100%	99%	98%	96%	95%	92%	88%	84%	79%	73%	67%	59%	51%	42%	34%	26%	19%	13%

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°
1791	1782	1768	1749	1724	1695	1660	1614	1557	1484	1399	1300	1187	1061	914	760	612	474	353	255
100%	99%	99%	98%	96%	95%	93%	90%	87%	83%	78%	73%	66%	59%	51%	42%	34%	26%	20%	14%

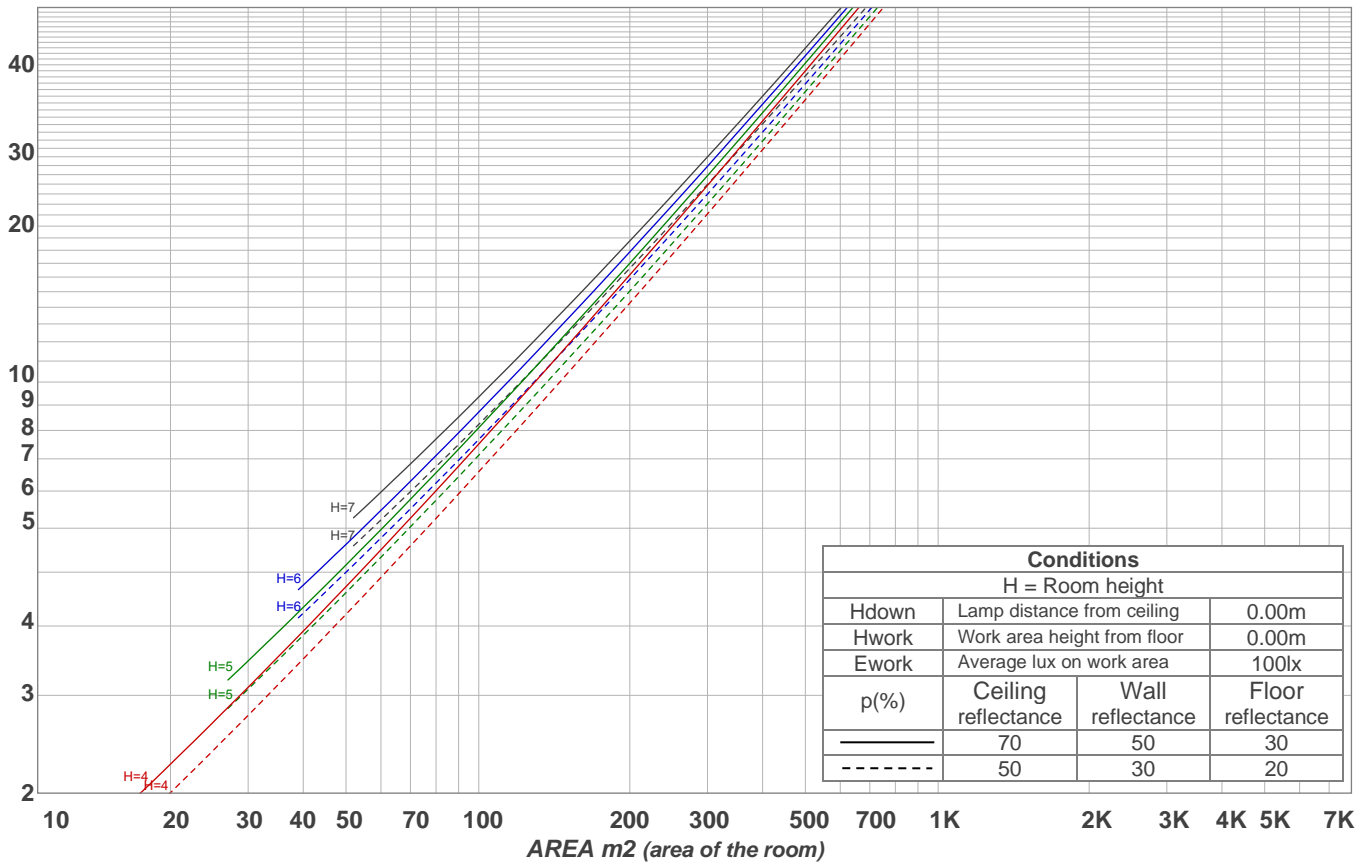
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1791	1792	1786	1771	1746	1718	1676	1627	1566	1490	1402	1301	1183	1050	909	763	617	484	373	284
100%	100%	100%	99%	97%	96%	94%	91%	87%	83%	78%	73%	66%	59%	51%	43%	34%	27%	21%	16%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56.4°	80.2°	95°	99.1%	97.0%

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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	98	96	95	94	94	94	
2	108	103	99	96	106	102	98	95	98	96	93	95	93	91	93	91	89	87	87	87	
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82	82	82	
4	98	91	85	81	96	89	85	81	87	83	80	85	82	79	84	80	78	76	76	76	
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72	72	72	
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	69	67	67	67	
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	67	64	63	63	63	
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59	59	59	
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56	56	56	
10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53	53	53	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
168 lm	447 lm	505 lm	261 lm	63.6 lm	12.6 lm	5.52 lm	4.25 lm	3.06 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