

Light efficiency:



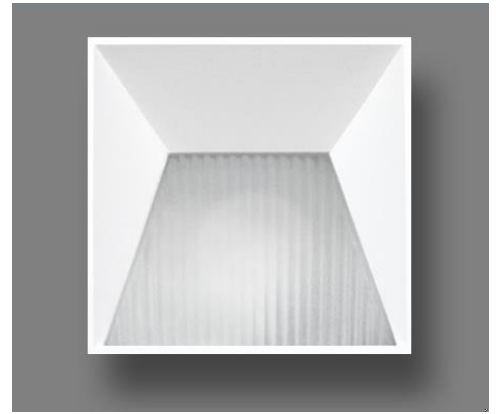
Output: 775 lm

Light quality:

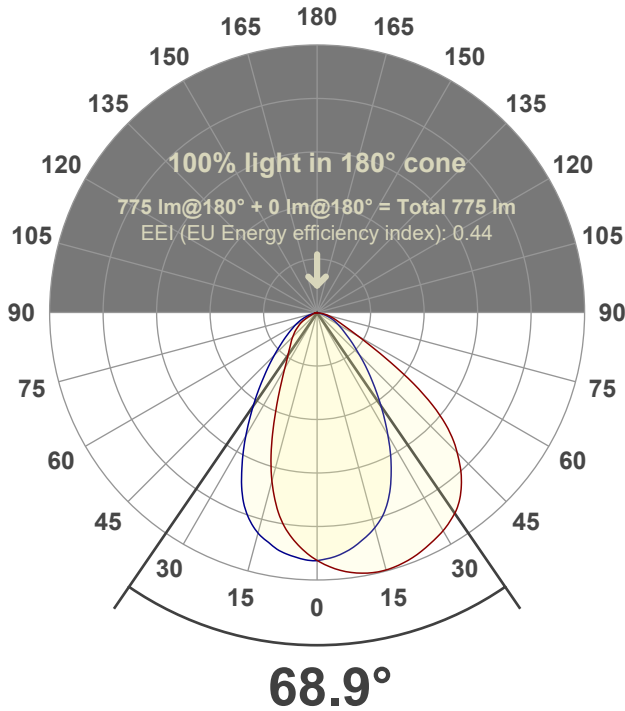


Peak: 531 cd

Power: 21.3 W



Beam angle



Test number:

GR-W-A20-3019-SQ-Rev2

Luminaire Model:

Graffiti Wallwash Square A20-3019

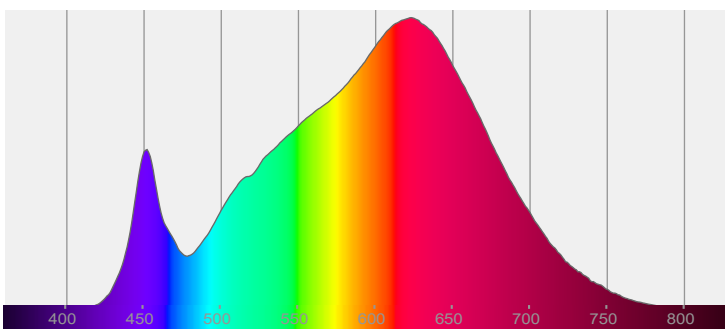
Date and time:

7/7/2022 4:05:08 PM

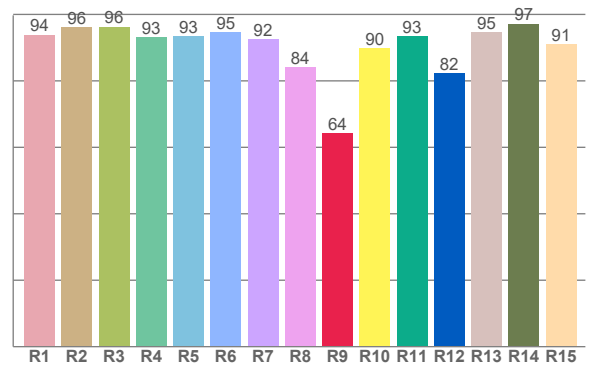
Delivered Lumens

775

Spectra



CRI: 93.0 (R1-R8)



Color parameters

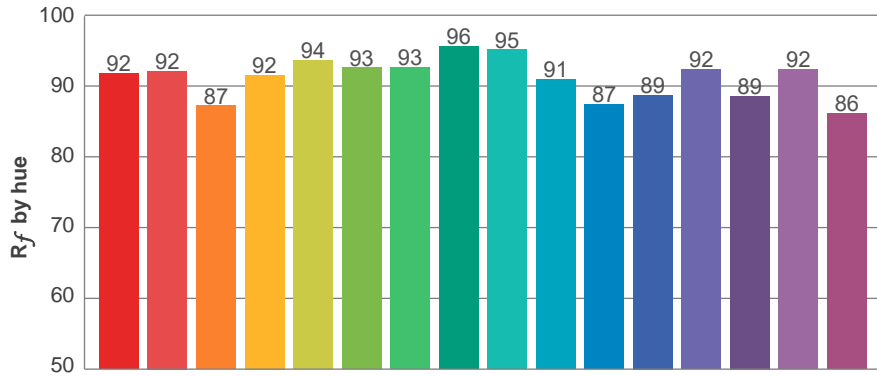
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	93.0	64.2	91.1	101.5	89.8	0.435	0.397	0.252	0.345	-0.0026

**$R_f$  91.1**  
Fidelity index  $R_f$

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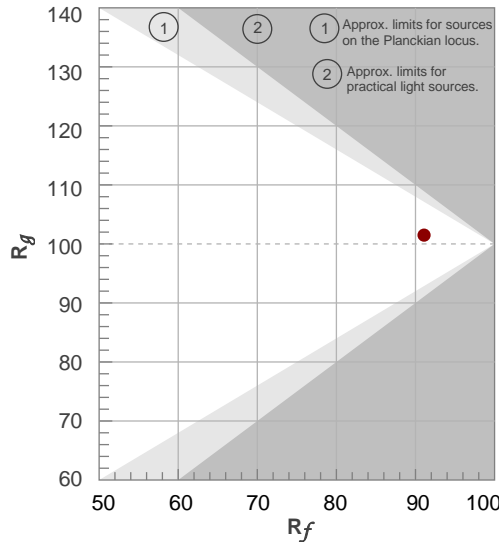
**$R_g$  101.5**  
Gammut index  $R_g$

TM30: 91.1

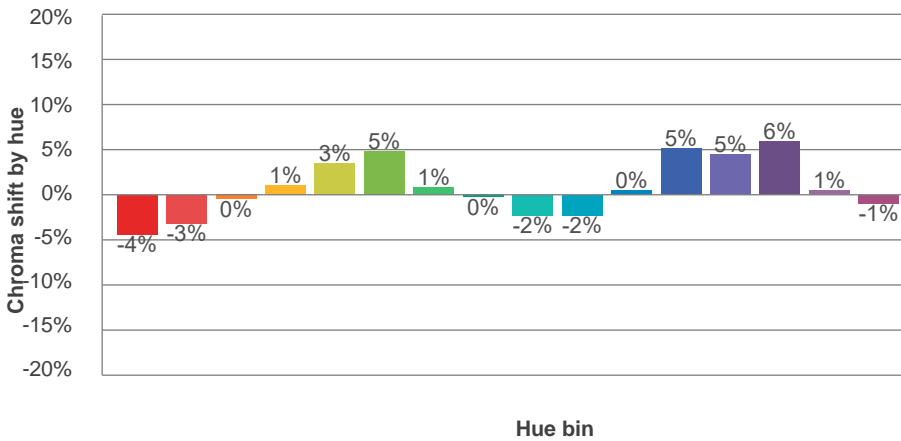
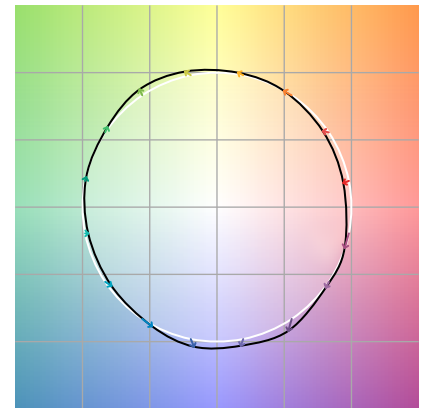


TM-30Color

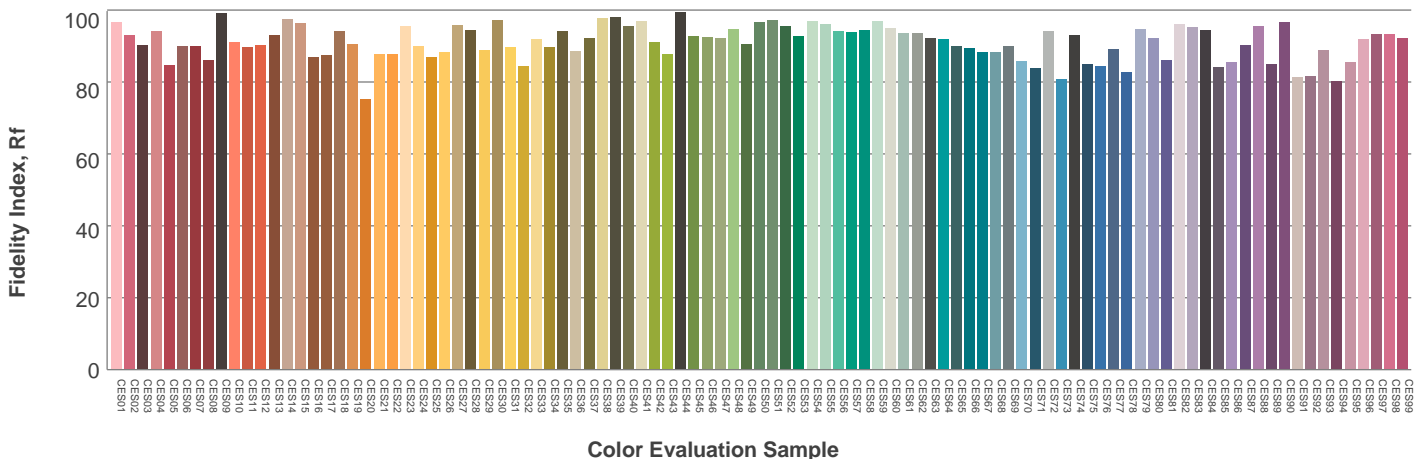
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	0%	7%
4	92	1%	4%
5	94	3%	4%
6	93	5%	-1%
7	93	1%	-4%
8	96	0%	-3%
9	95	-2%	0%
10	91	-2%	5%
11	87	0%	9%
12	89	5%	4%
13	92	5%	-3%
14	89	6%	-7%
15	92	1%	-5%
16	86	-1%	-11%



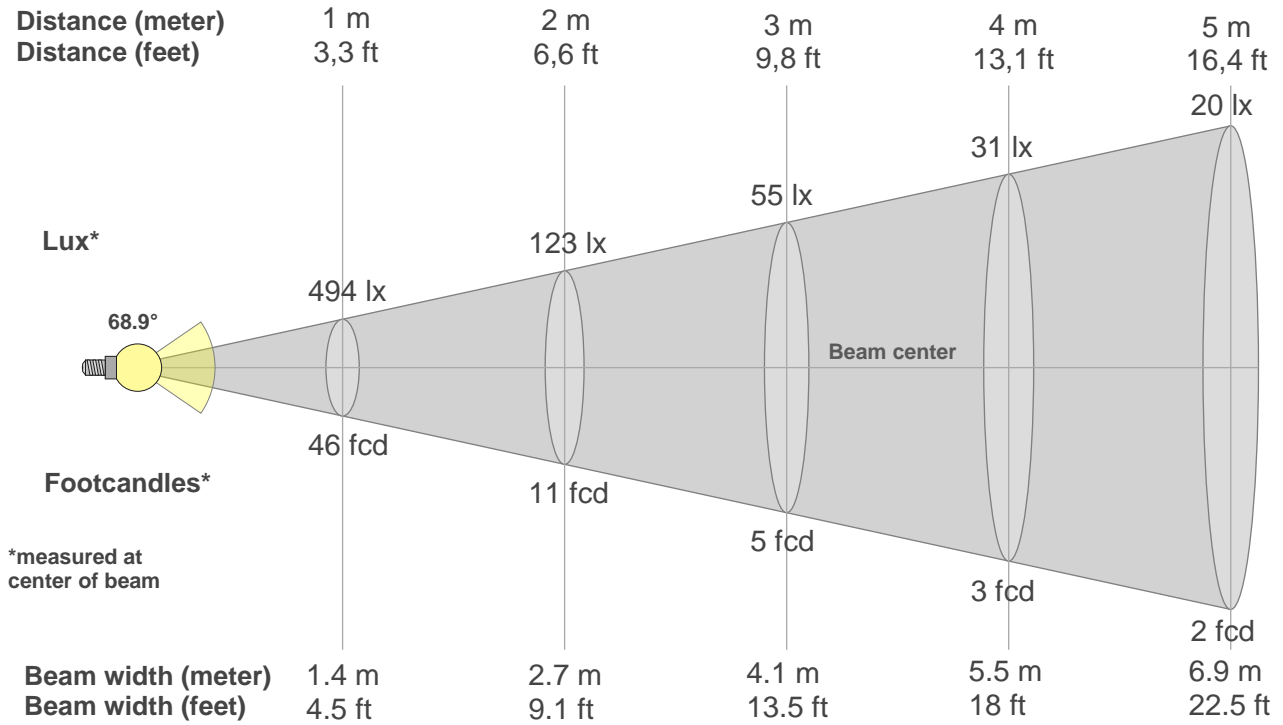
Color vector graphics



Color distortion



### Beam details



\*measured at center of beam

#### 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
494lx	123lx	55lx	31lx	20lx	14lx	10lx	8lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx
45.9fcd	11.5fcd	5.1fcd	2.9fcd	1.8fcd	1.3fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd

#### Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
494	515	527	531	526	516	502	483	448	396	322	206	102	57	39	27	16	6	1	0
100%	104%	107%	107%	107%	104%	102%	98%	91%	80%	65%	42%	21%	12%	8%	5%	3%	1%	0%	0%

#### Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
494	485	468	444	407	350	283	220	165	121	90	66	51	38	26	15	7	3	0	0
100%	98%	95%	90%	82%	71%	57%	44%	34%	25%	18%	13%	10%	8%	5%	3%	1%	1%	0%	0%

#### Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
494	462	417	348	261	183	131	101	83	70	58	45	33	21	12	8	5	3	0	0
100%	94%	84%	70%	53%	37%	26%	20%	17%	14%	12%	9%	7%	4%	2%	2%	1%	1%	0%	0%

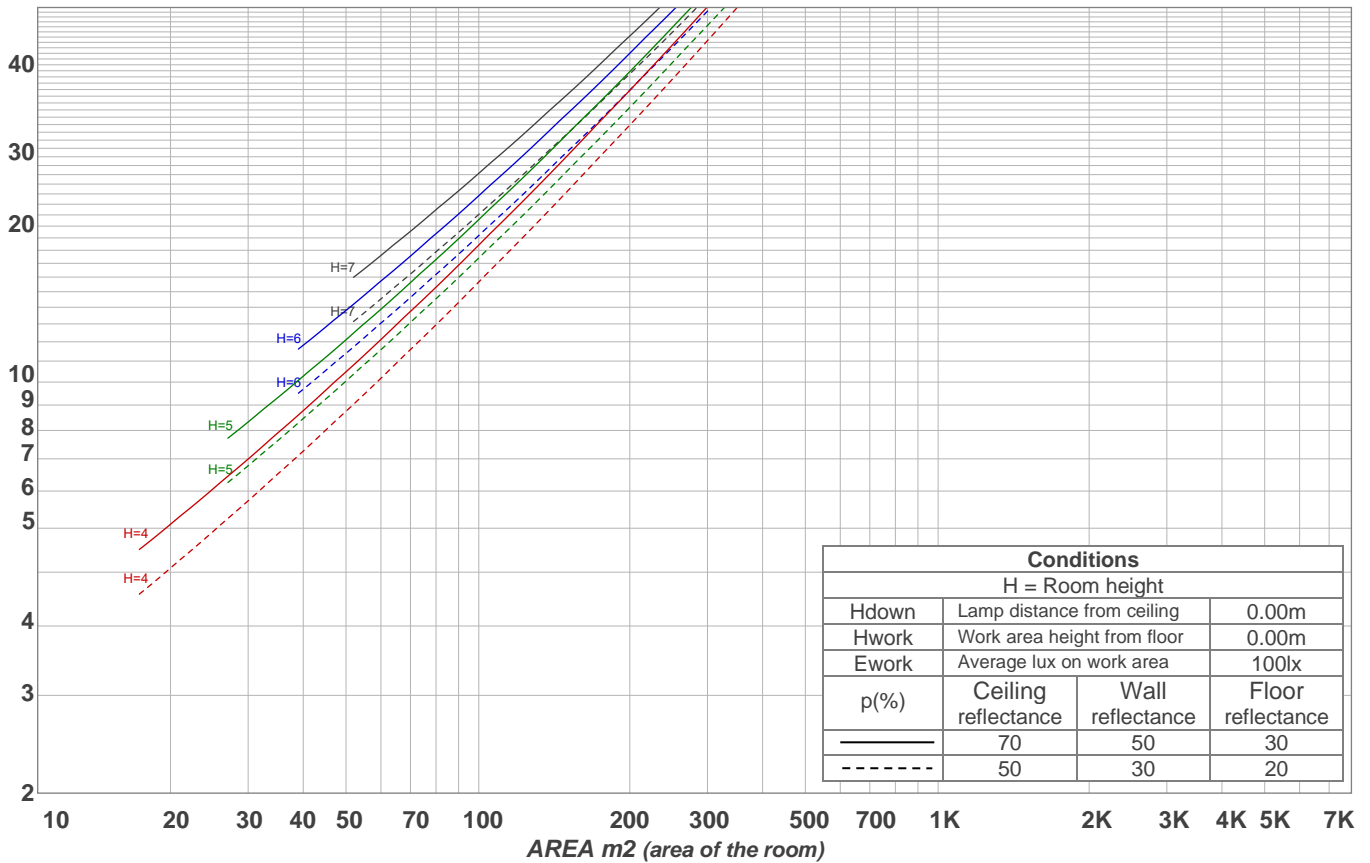
#### Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
494	489	477	455	417	357	286	219	164	123	91	69	52	38	26	14	6	2	1	0
100%	99%	96%	92%	85%	72%	58%	44%	33%	25%	18%	14%	11%	8%	5%	3%	1%	0%	0%	0%

<b>Beam angle 50%</b>	<b>Field angle 10%</b>	<b>Cutoff angle 2,5%</b>	<b>Intensity ratio in 120° cone</b>	<b>Intensity ratio in 90° cone</b>
<b>68.9°</b>	<b>121.3°</b>	<b>151.6°</b>	<b>91.8%</b>	<b>72.7%</b>

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78	78	78	
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69	69	69	
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61	61	61	
5	83	72	65	59	81	71	64	59	69	63	58	67	62	57	66	61	57	55	55	55	
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50	50	50	
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45	45	45	
8	68	56	49	43	67	56	48	43	54	48	43	53	47	43	52	47	43	41	41	41	
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38	38	38	
10	60	49	41	37	59	48	41	37	47	41	37	46	40	36	45	40	36	35	35	35	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
46.1 lm	124 lm	163 lm	160 lm	132 lm	86.1 lm	41.9 lm	17.6 lm	4.12 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