

Light efficiency:



Output: 858 lm

Light quality:

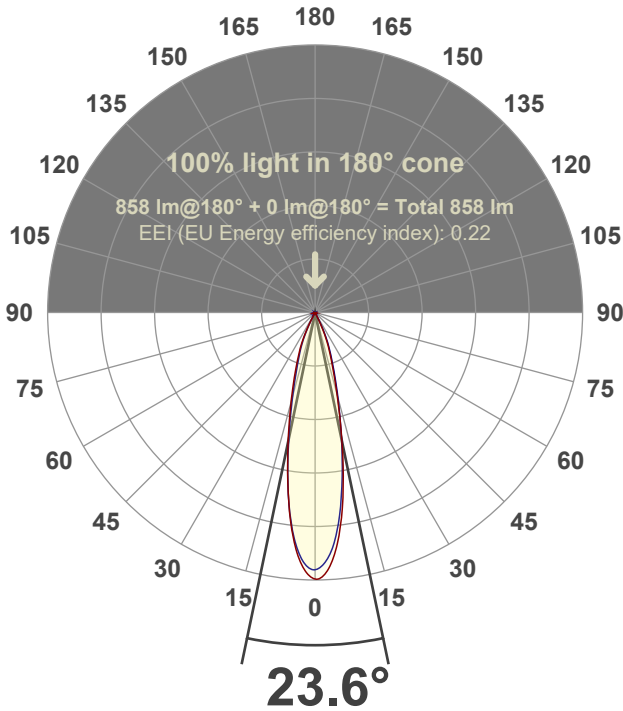


Peak: 4082 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-2722-NF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A14-2722 24° Optic

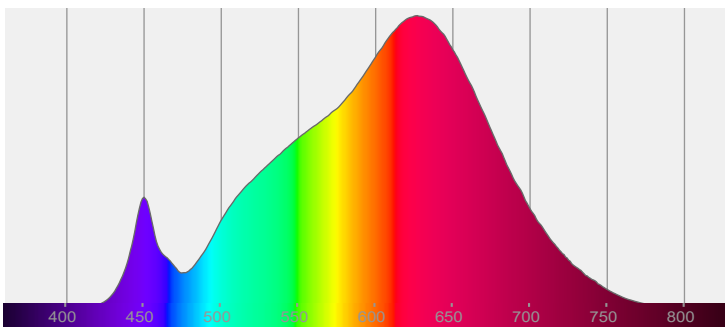
Date and time:

6/30/2022 5:54:52 PM

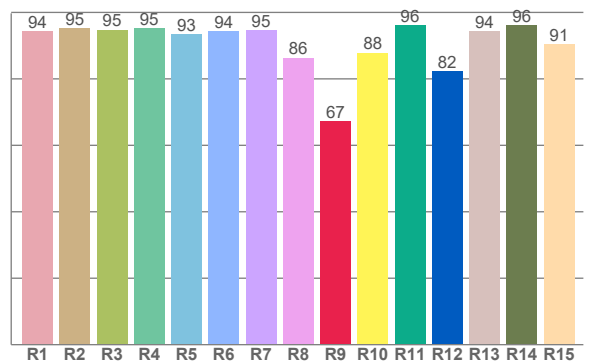
Delivered Lumens

858

Spectra



CRI: 93.5 (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 diviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	93.5	67.2	92.7	100.8	91.5	0.457	0.413	0.260	0.352	0.0012

**$R_f$  92.7**

Fidelity index  $R_f$

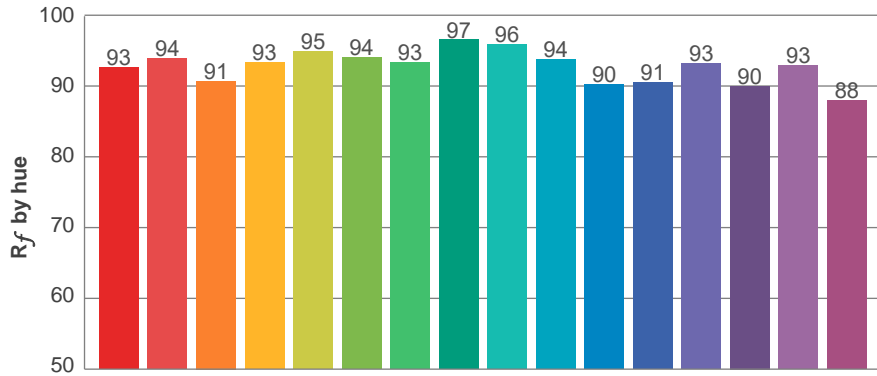
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**$R_g$  100.8**

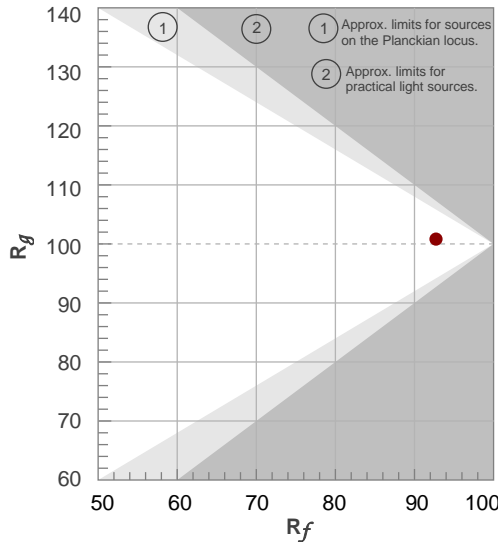
Gammut index  $R_g$

TM30: 92.7

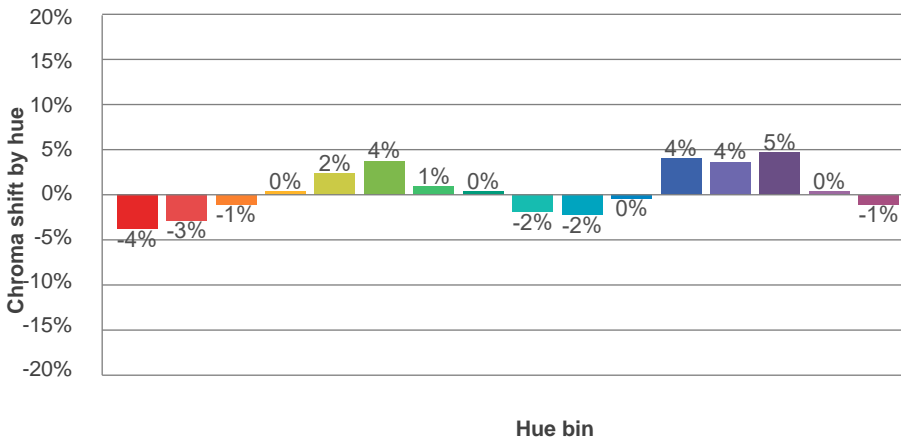
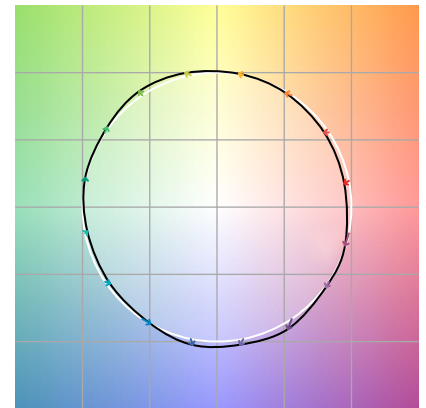
TM-30Color



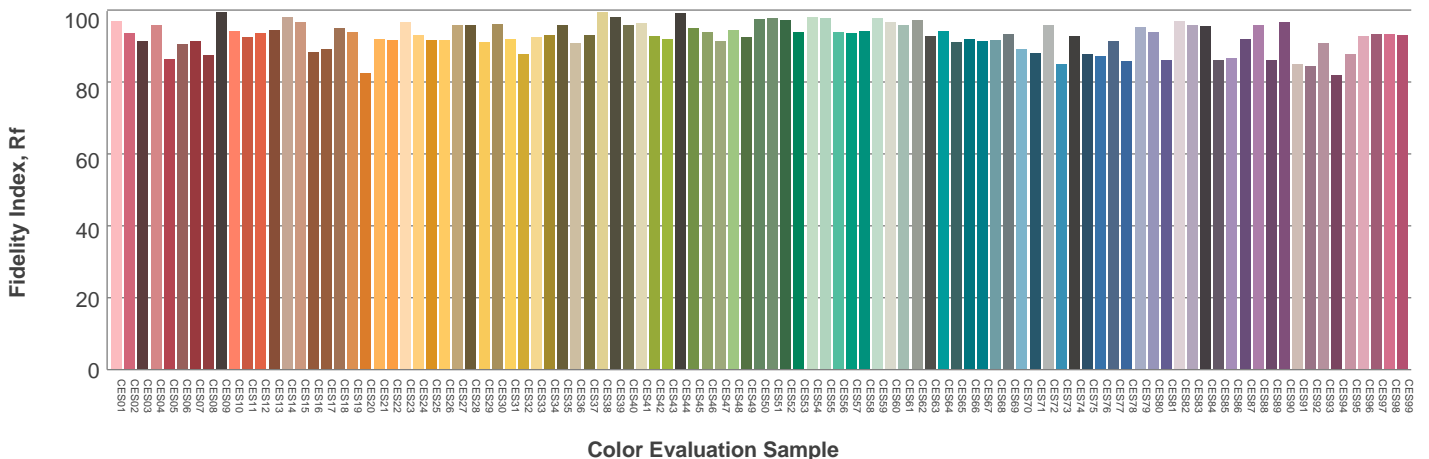
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	94	-3%	2%
3	91	-1%	5%
4	93	0%	3%
5	95	2%	4%
6	94	4%	0%
7	93	1%	-4%
8	97	0%	-2%
9	96	-2%	-1%
10	94	-2%	3%
11	90	0%	7%
12	91	4%	2%
13	93	4%	-3%
14	90	5%	-6%
15	93	0%	-4%
16	88	-1%	-9%



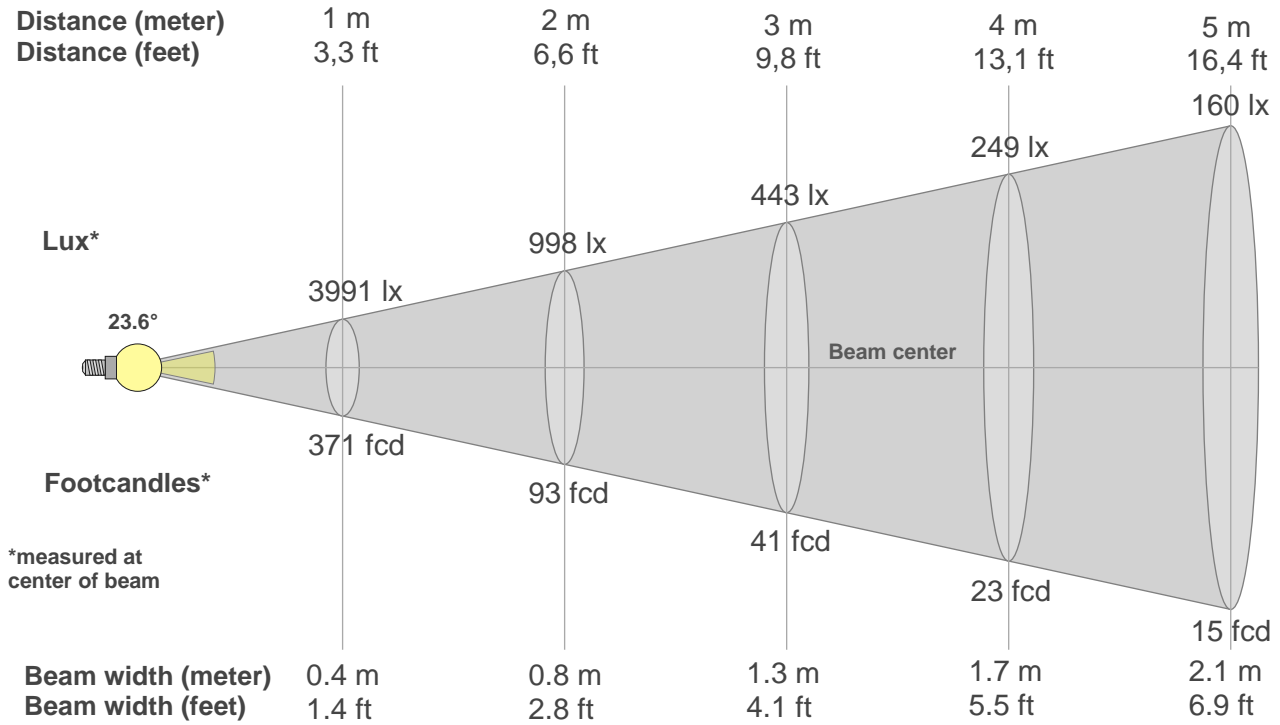
Color vector graphics



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
3991lx	998lx	443lx	249lx	160lx	111lx	81lx	62lx	49lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
370.7fcd	92.7fcd	41.2fcd	23.2fcd	14.8fcd	10.3fcd	7.6fcd	5.8fcd	4.6fcd	3.7fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd

#### 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°
3991	3992	3782	3448	3010	2487	1976	1523	1153	872	675	514	351	196	72	18	12	10	8	7
100%	100%	95%	86%	75%	62%	50%	38%	29%	22%	17%	13%	9%	5%	2%	0%	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°
3991	3850	3632	3295	2871	2406	1946	1537	1210	944	732	562	409	241	104	30	11	9	7	7
100%	96%	91%	83%	72%	60%	49%	39%	30%	24%	18%	14%	10%	6%	3%	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°
3991	3971	3728	3358	2911	2439	1991	1600	1287	1030	818	644	497	321	173	68	16	10	9	7
100%	100%	93%	84%	73%	61%	50%	40%	32%	26%	21%	16%	12%	8%	4%	2%	0%	0%	0%	0%

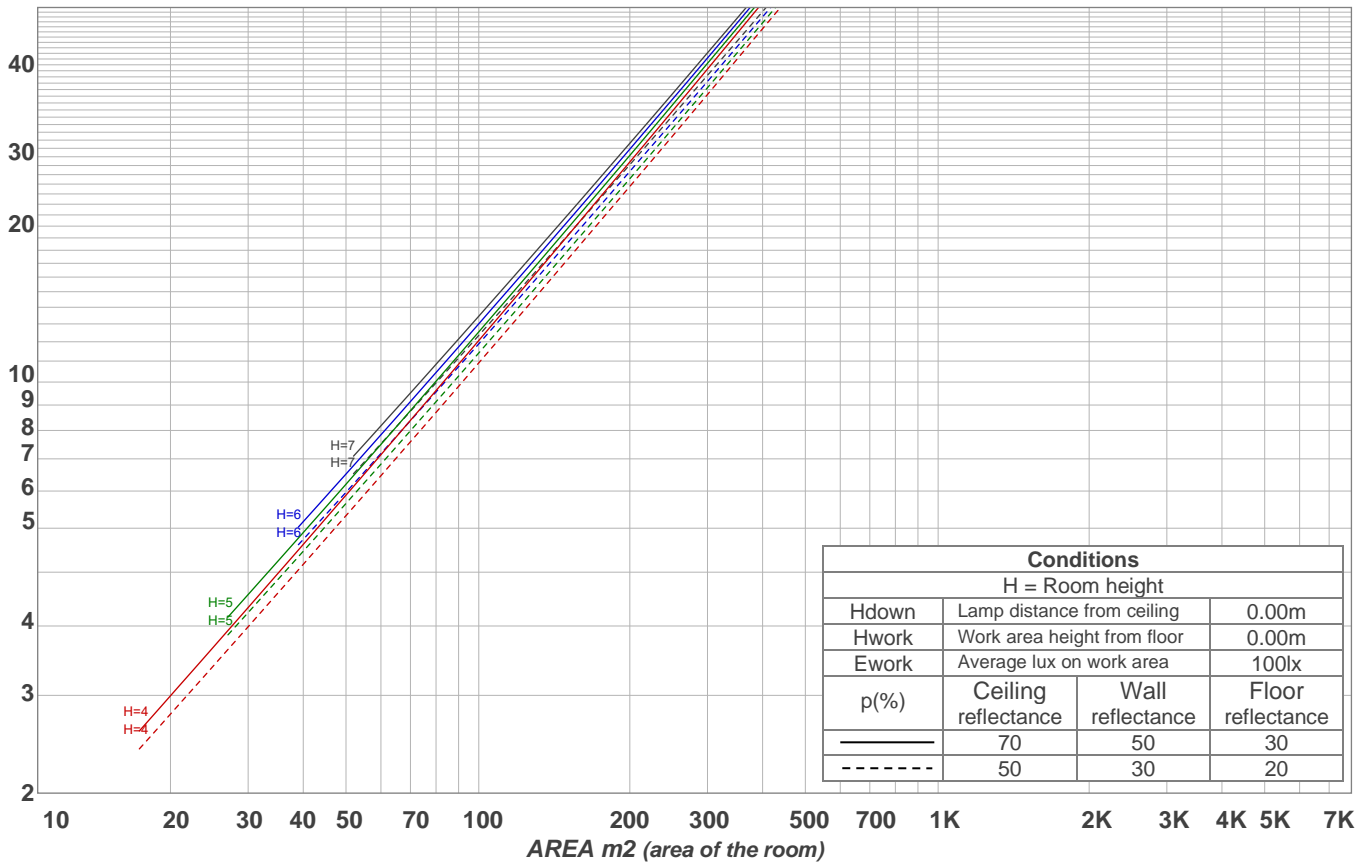
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3991	3853	3650	3328	2907	2414	1942	1530	1190	923	729	582	429	269	125	28	14	10	8	7
100%	97%	91%	83%	73%	60%	49%	38%	30%	23%	18%	15%	11%	7%	3%	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
<b>23.6°</b>	<b>48.5°</b>	<b>56.5°</b>	<b>98.8%</b>	<b>98.2%</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
<b>RCR</b>	<b>(RCR: Room Cavity Ratio)</b>																				
	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	100
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	98	97	96	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	94	93	92	92
3	108	103	99	96	106	101	98	95	99	96	94	97	94	93	95	93	91	91	90	89	89
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	88	87	86	86
5	101	95	91	88	100	94	91	88	93	90	87	91	88	86	90	88	86	86	85	84	84
6	98	92	88	85	97	91	87	85	90	87	84	89	86	84	88	85	83	83	82	81	81
7	96	89	85	82	95	89	85	82	87	84	81	86	83	81	85	83	81	81	80	79	79
8	93	86	82	80	92	86	82	79	85	82	79	84	81	79	83	81	79	79	78	77	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	79	76	76	75	74	74
10	88	82	78	75	88	81	78	75	81	77	75	80	77	75	79	77	74	74	73	72	72

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
302 lm	383 lm	150 lm	6.23 lm	2.87 lm	4.41 lm	4.03 lm	2.79 lm	2.73 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