

Light efficiency:



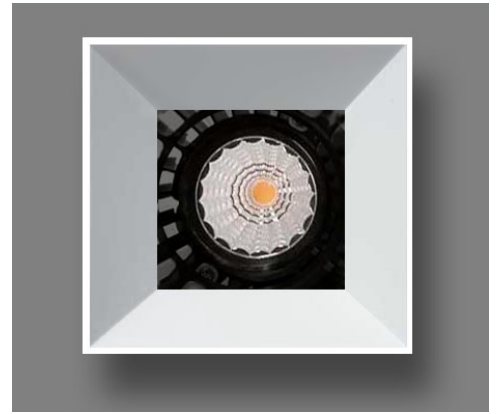
Output: 1950 lm

Light quality:

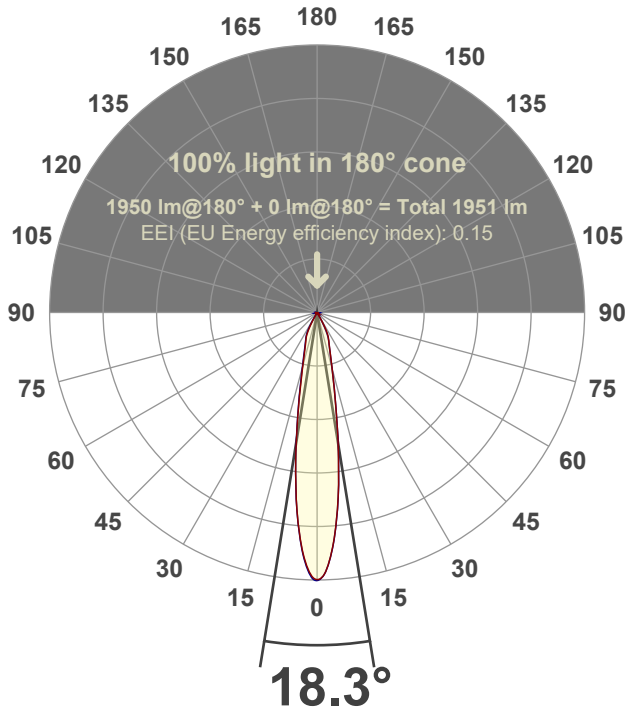


Peak: 11252 cd

Power: 20.7 W



Beam angle



Test number:

GR-O-F-CZ20-30k-SP-SQ-Rev2

Luminaire Model:

Graffiti Open Square Fixed Downlight-CZ20 30k 15° Optic

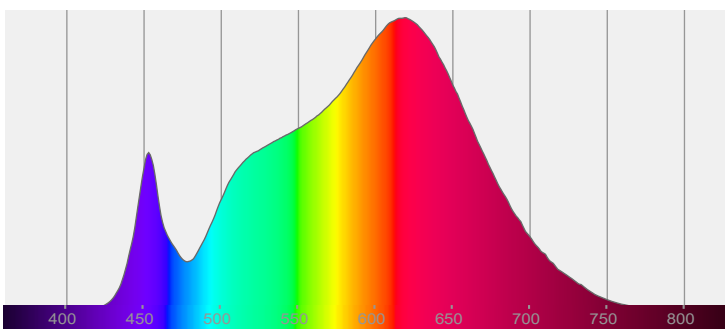
Date and time:

6/30/2022 9:19:10 PM

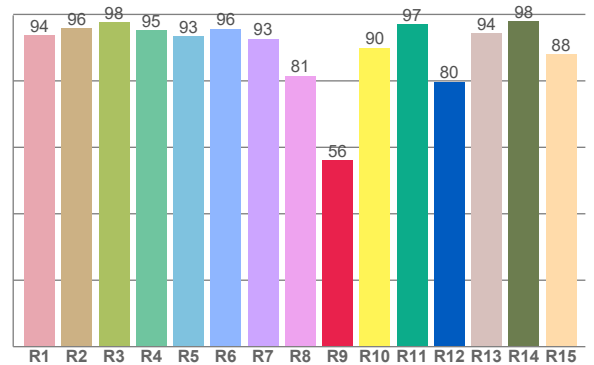
Delivered Lumens

1950

Spectra



CRI: 93.2 (R1-R8)



Color parameters

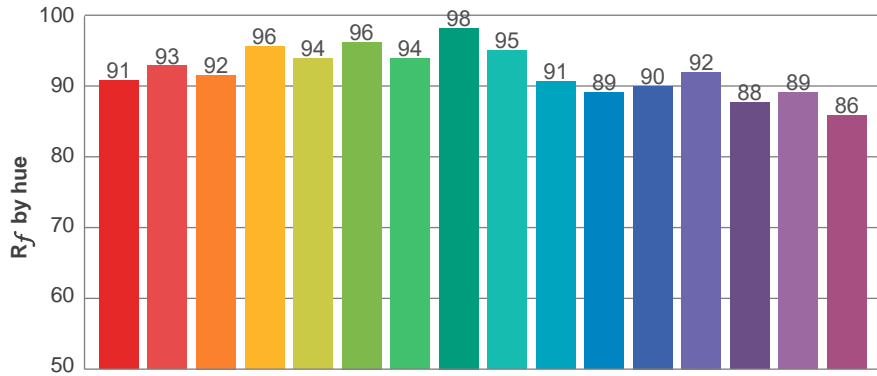
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.2	56.0	92.2	99.1	91.6	0.437	0.408	0.249	0.349	0.0015

R_f 92.2
Fidelity index R_f

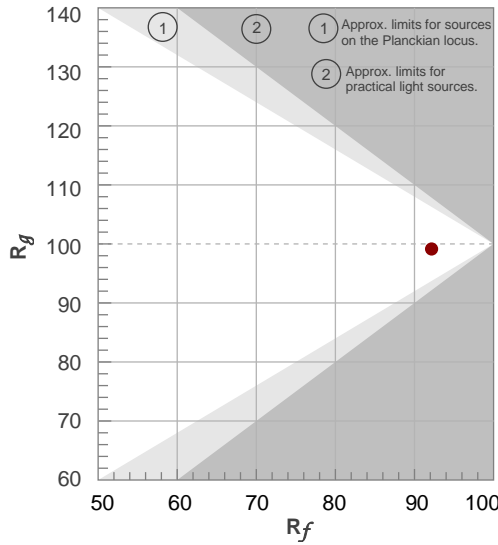
R_g 99.1
Gammut index R_g

TM30: 92.2

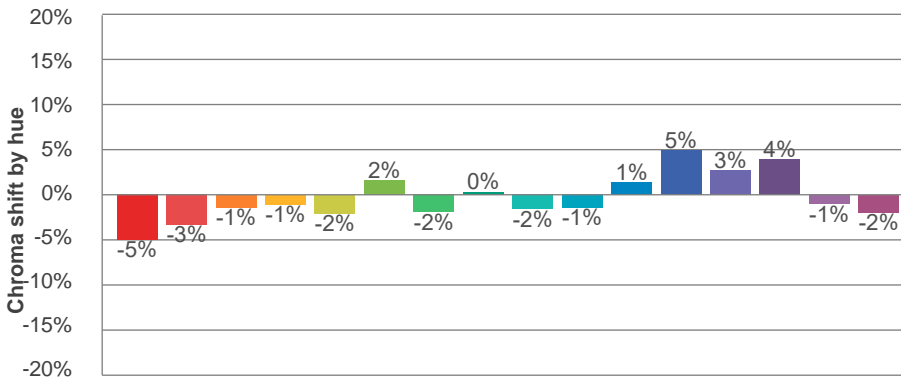
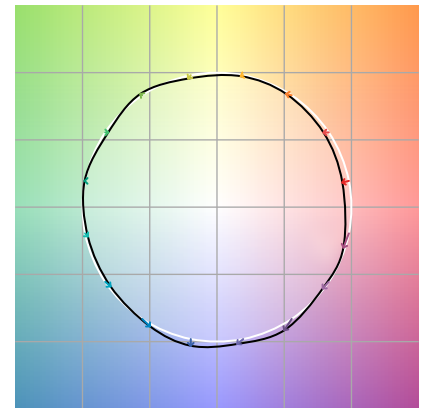
TM-30Color



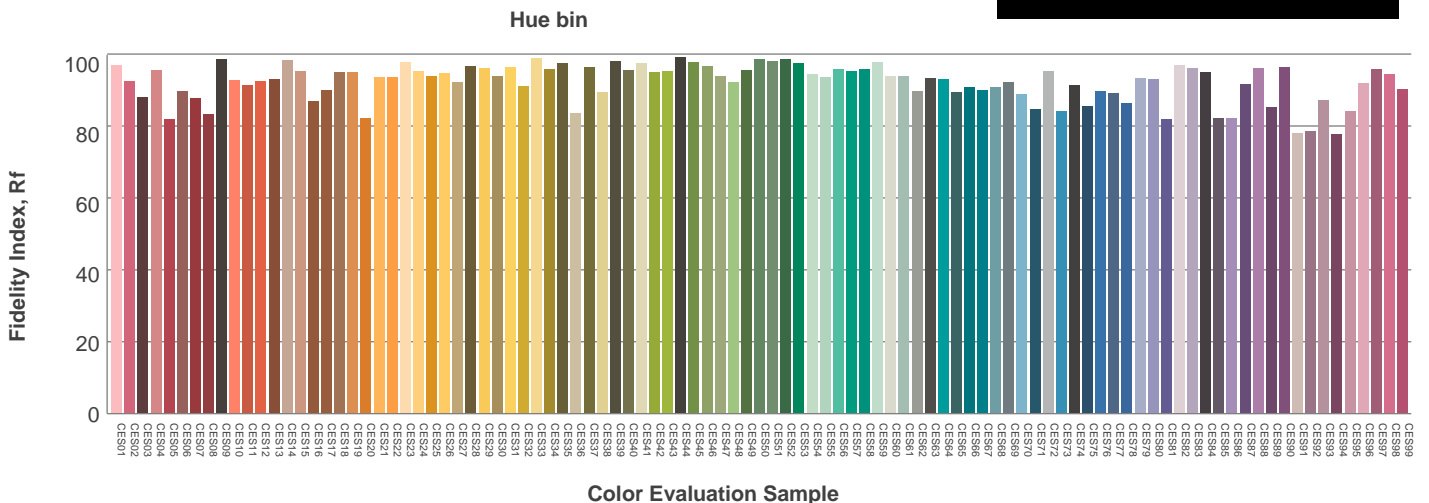
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



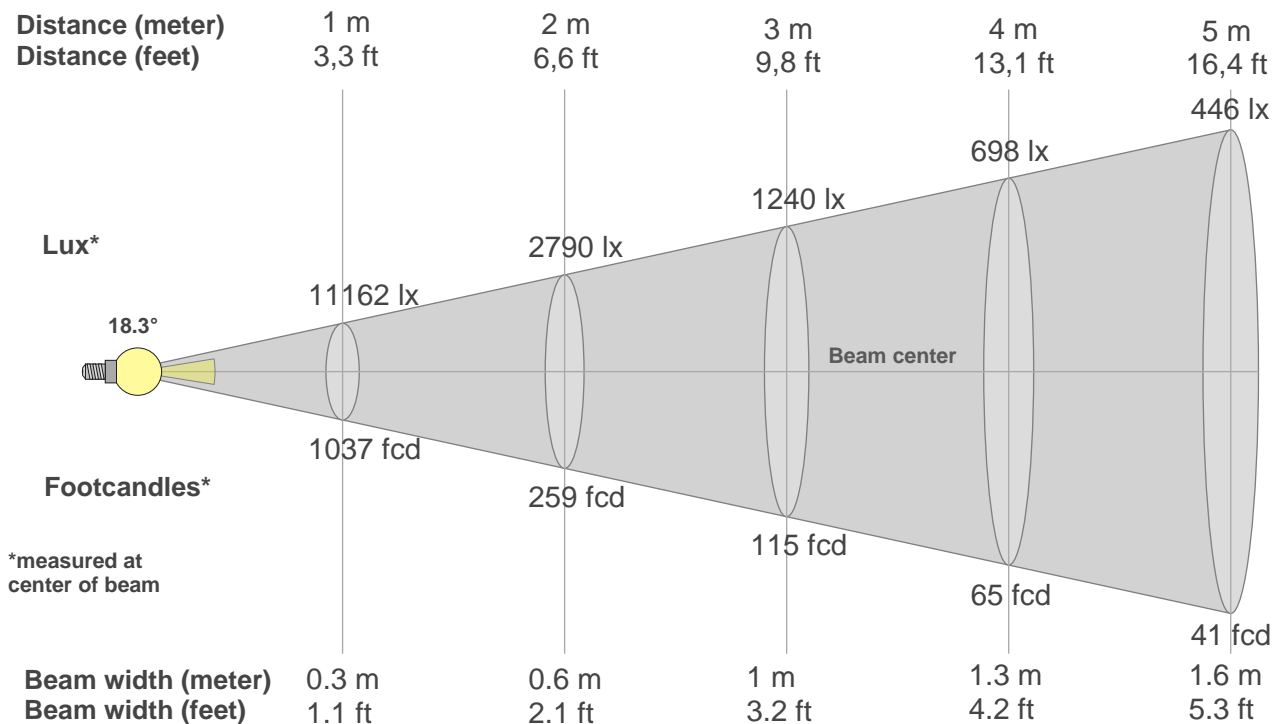
Color vector graphics



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
11162lx	2790lx	1240lx	698lx	446lx	310lx	228lx	174lx	138lx	112lx	92lx	78lx	66lx	57lx	50lx	44lx	39lx	34lx	31lx	28lx
1037fcd	259.2fcd	115.2fcd	64.8fcd	41.5fcd	28.8fcd	21.2fcd	16.2fcd	12.8fcd	10.4fcd	8.6fcd	7.2fcd	6.1fcd	5.3fcd	4.6fcd	4.1fcd	3.6fcd	3.2fcd	2.9fcd	2.6fcd

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°
11.2K	10.8K	9.8K	8.2K	6.6K	5.0K	3.7K	2.8K	2.2K	1.8K	1.5K	1.3K	1.2K	1.0K	0.7K	0.4K	0.2K	0.0K	0.0K	0.0K
100%	97%	88%	74%	59%	45%	33%	25%	20%	16%	14%	12%	11%	9%	6%	4%	2%	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°
11.2K	10.8K	9.8K	8.3K	6.6K	5.0K	3.7K	2.8K	2.2K	1.8K	1.5K	1.3K	1.1K	0.9K	0.6K	0.3K	0.1K	0.0K	0.0K	0.0K
100%	97%	88%	74%	59%	45%	33%	25%	20%	16%	14%	12%	10%	8%	5%	3%	1%	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°
11.2K	10.7K	9.7K	8.2K	6.5K	4.9K	3.6K	2.7K	2.1K	1.7K	1.5K	1.3K	1.1K	0.9K	0.6K	0.3K	0.1K	0.0K	0.0K	0.0K
100%	96%	87%	74%	58%	44%	33%	24%	19%	15%	13%	11%	10%	8%	6%	3%	1%	0%	0%	0%

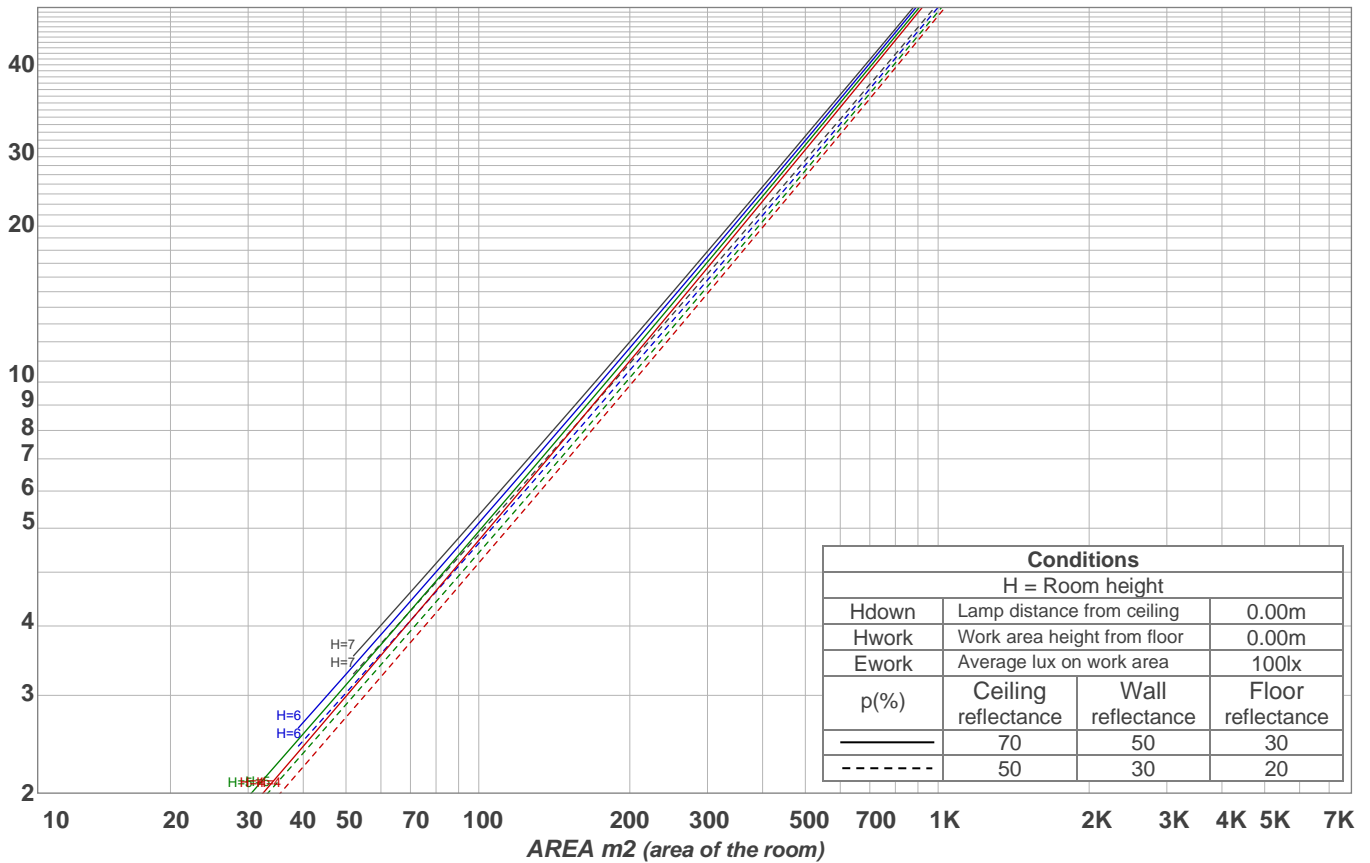
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.2K	10.8K	9.7K	8.2K	6.5K	5.0K	3.7K	2.8K	2.2K	1.8K	1.5K	1.3K	1.2K	1.0K	0.8K	0.5K	0.2K	0.1K	0.0K	0.0K
100%	97%	87%	74%	59%	44%	33%	25%	20%	16%	14%	12%	10%	9%	7%	4%	2%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.3°	48.7°	61.2°	99.3%	99.0%

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		
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	98	96		
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	94	93		
3	107	103	99	96	106	101	98	95	99	96	94	97	94	93	95	93	91	91	90		
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	88	87		
5	101	95	91	88	100	94	90	88	93	89	87	91	88	86	90	87	85	85	84		
6	98	92	88	85	97	91	87	84	90	86	84	89	86	83	87	85	83	83	82		
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	82	80	80	79		
8	93	86	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	78	77		
9	90	84	80	77	89	83	79	77	82	79	76	82	78	76	81	78	76	76	75		
10	88	81	77	75	87	81	77	74	80	77	74	80	76	74	79	76	74	74	73		

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
726 lm	713 lm	451 lm	38.8 lm	4.96 lm	3.37 lm	3.74 lm	4.54 lm	5.09 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