

Light efficiency:



Output: 1744 lm

Light quality:

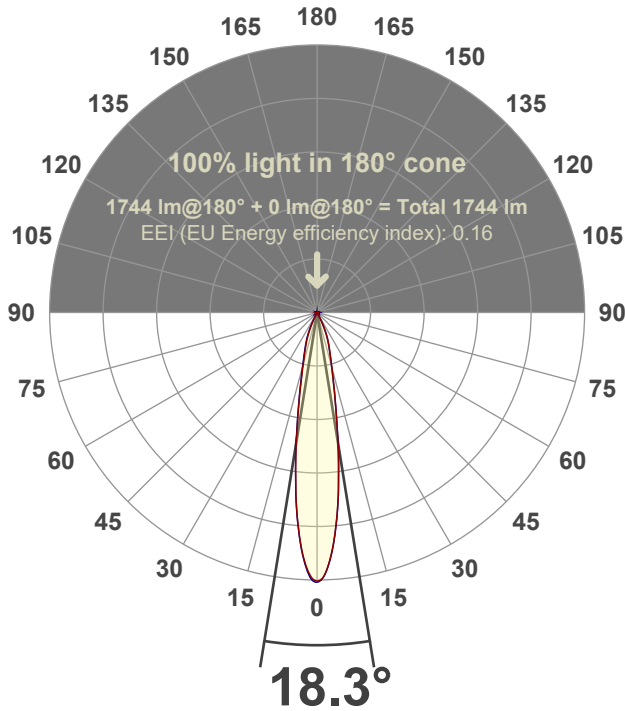


Peak: 11207 cd

Power: 20.8 W



Beam angle



Test number:

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

Luminaire Model:

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

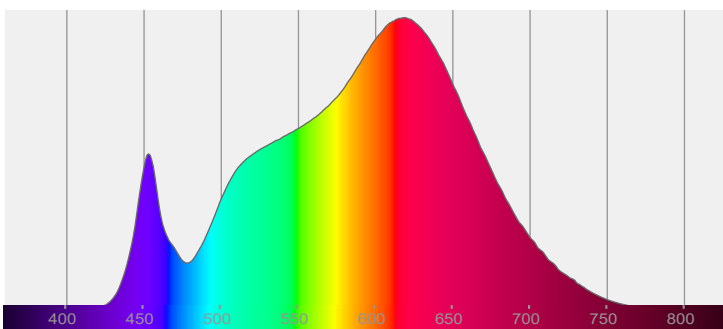
Date and time:

6/30/2022 9:13:01 PM

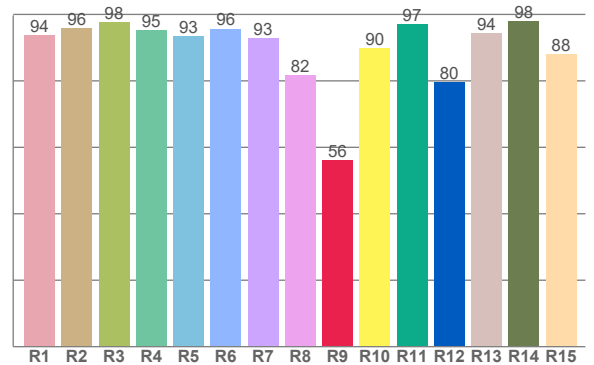
Delivered Lumens

1744

Spectra



CRI: 93.2 (R1-R8)



Color parameters

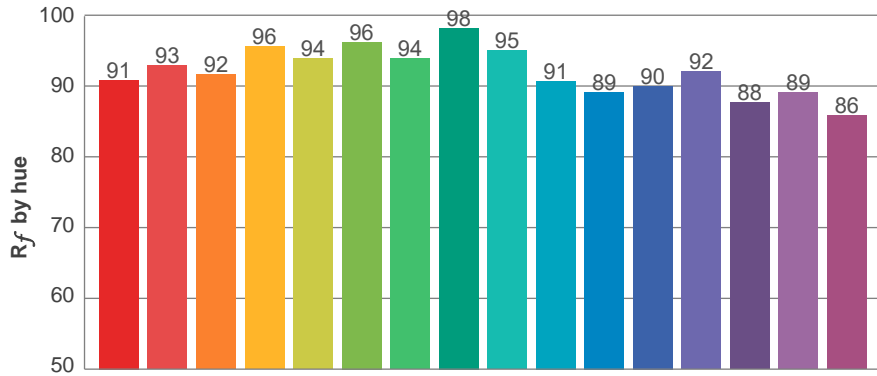
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.2	56.2	92.2	99.2	91.6	0.437	0.408	0.249	0.349	0.0017

R_f 92.2
Fidelity index R_f

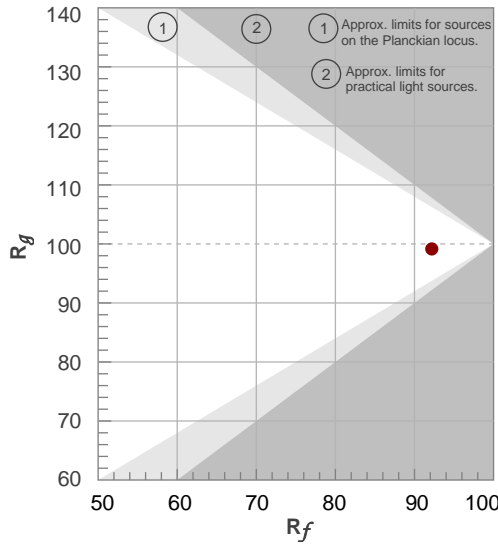
R_g 99.2
Gammut index R_g

TM30: 92.2

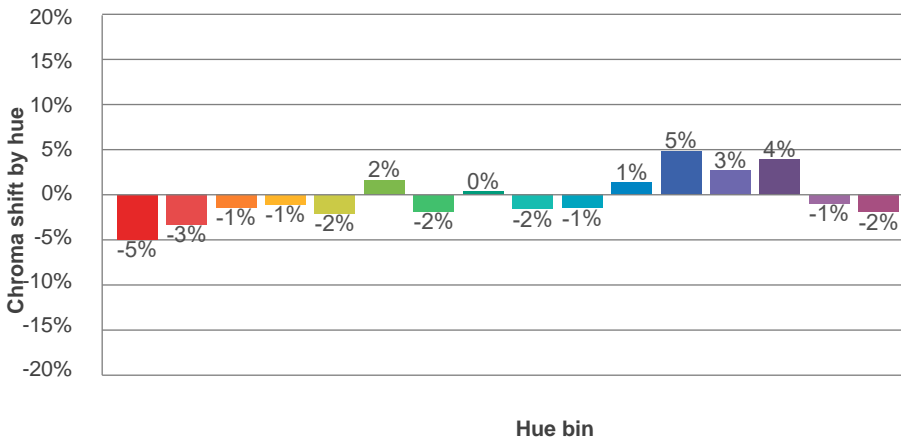
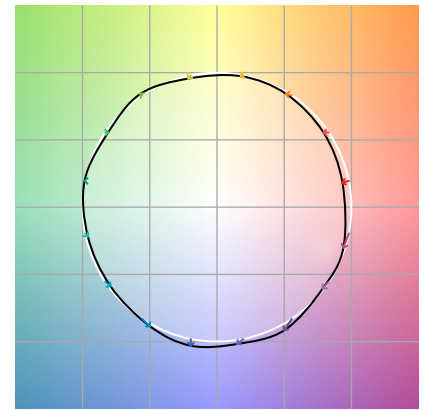
TM-30Color



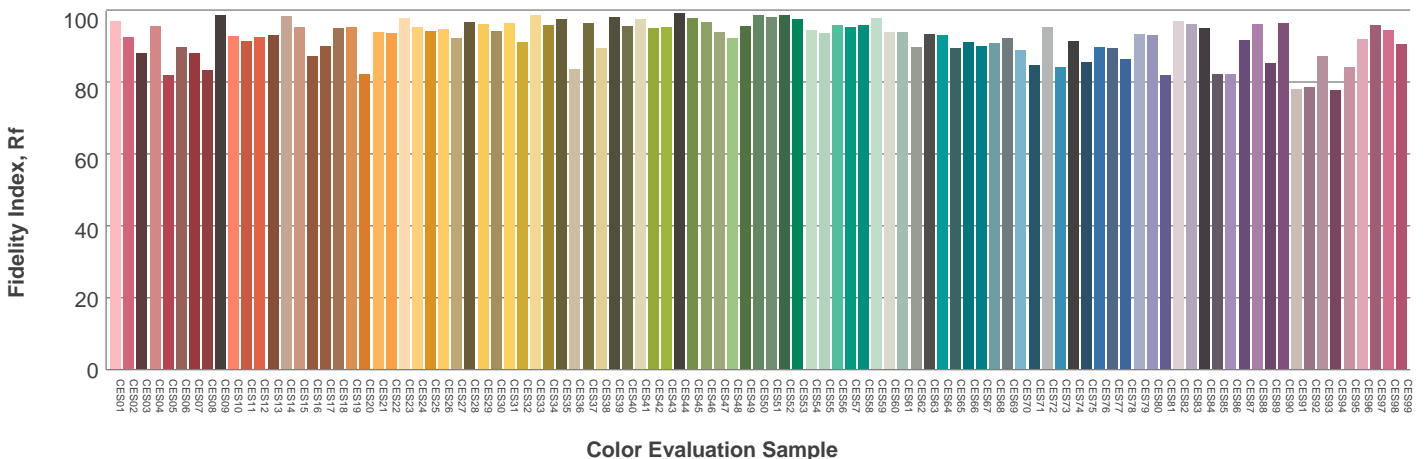
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	96	-1%	2%
5	94	-2%	2%
6	96	2%	1%
7	94	-2%	-1%
8	98	0%	0%
9	95	-2%	3%
10	91	-1%	5%
11	89	1%	8%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-11%



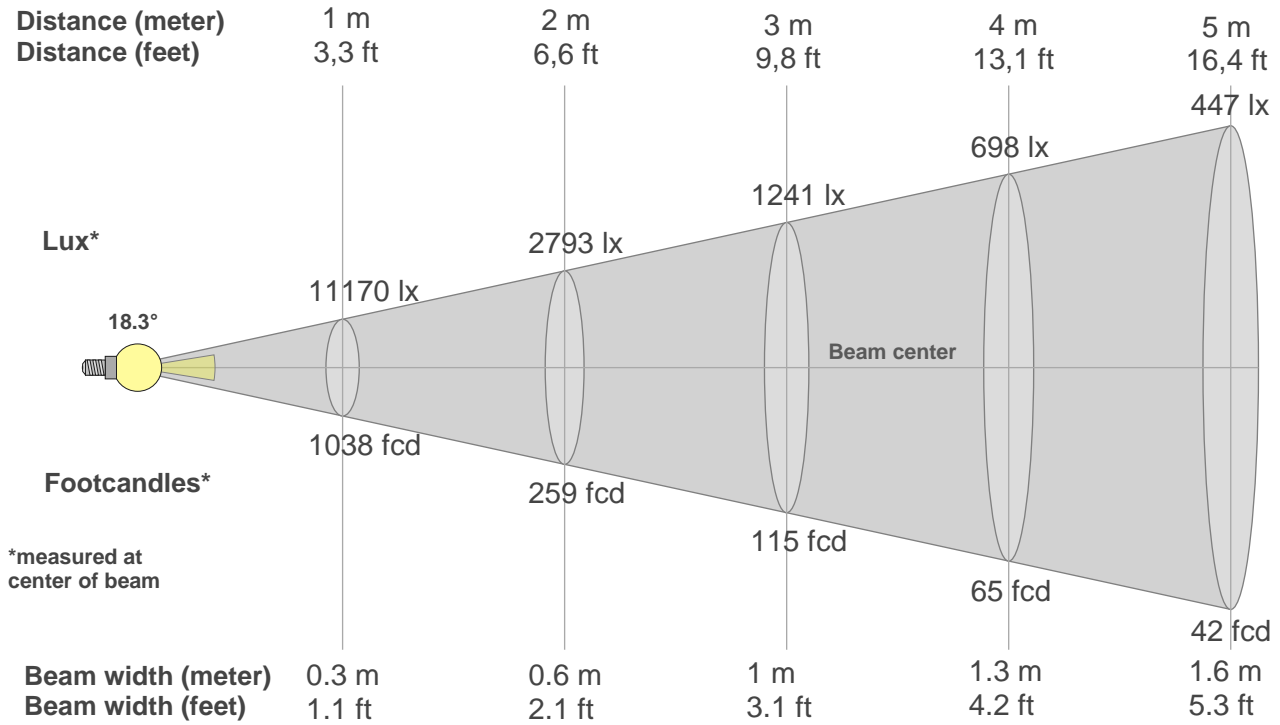
Color vector graphics



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
11170lx	2793lx	1241lx	698lx	447lx	310lx	228lx	175lx	138lx	112lx	92lx	78lx	66lx	57lx	50lx	44lx	39lx	34lx	31lx	28lx
1037.8fcd	259.4fcd	115.3fcd	64.9fcd	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	6.5K	4.9K	3.7K	2.8K	2.2K	1.8K	1.5K	1.2K	0.9K	0.6K	0.3K	0.1K	0.0K	0.0K	0.0K	0.0K
100%	97%	87%	74%	58%	44%	33%	25%	19%	16%	13%	11%	8%	5%	3%	1%	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°
11.2K	10.8K	9.8K	8.3K	6.5K	4.9K	3.7K	2.7K	2.1K	1.7K	1.4K	1.1K	0.8K	0.5K	0.3K	0.1K	0.0K	0.0K	0.0K	0.0K
100%	97%	87%	74%	58%	44%	33%	24%	19%	15%	13%	10%	7%	5%	2%	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°
11.2K	10.8K	9.8K	8.3K	6.5K	4.9K	3.6K	2.6K	2.0K	1.6K	1.3K	1.0K	0.7K	0.4K	0.2K	0.1K	0.0K	0.0K	0.0K	0.0K
100%	96%	87%	74%	58%	44%	32%	24%	18%	15%	12%	9%	6%	4%	2%	1%	0%	0%	0%	0%

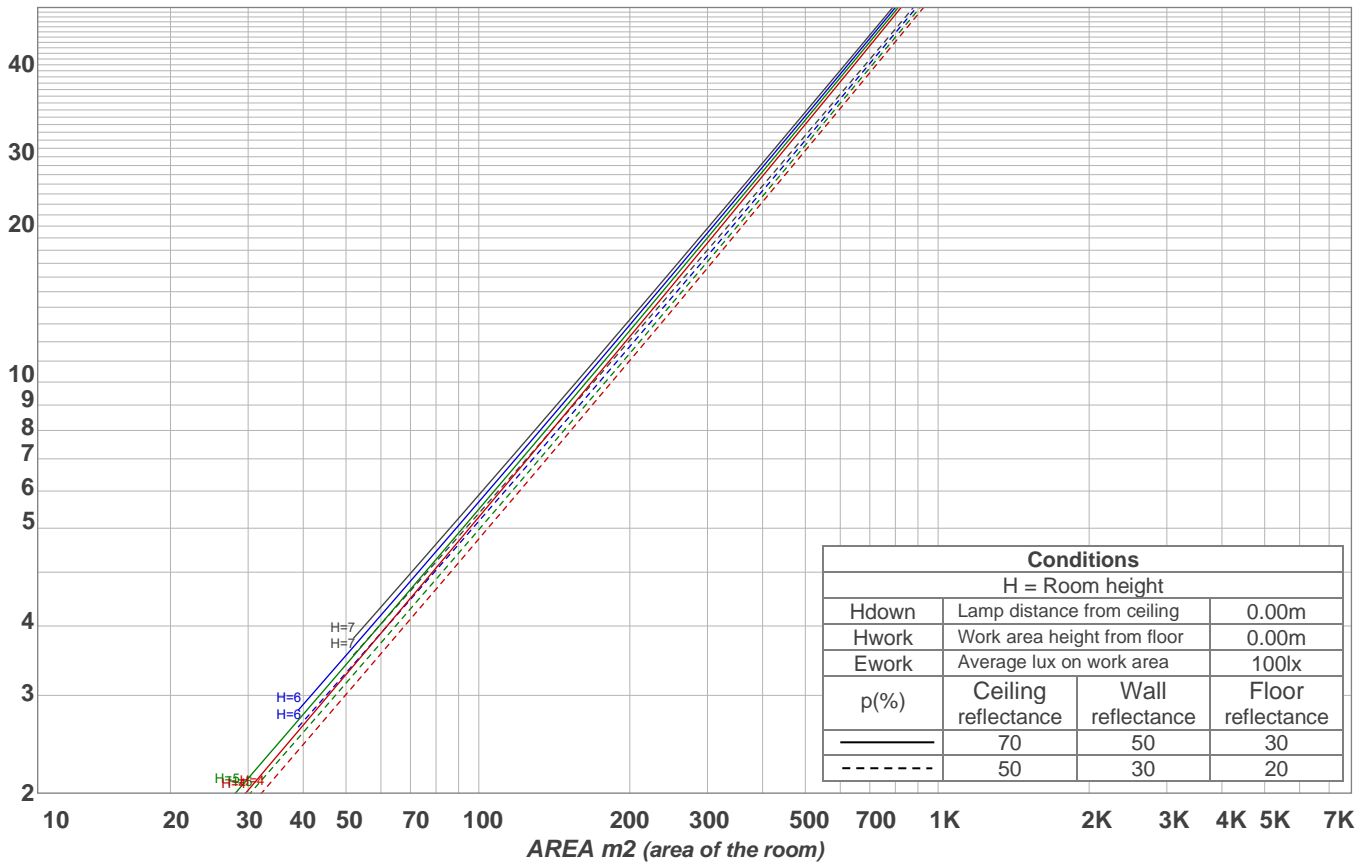
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
11.2K	10.9K	9.8K	8.3K	6.5K	5.0K	3.7K	2.7K	2.1K	1.7K	1.4K	1.1K	0.8K	0.5K	0.2K	0.1K	0.0K	0.0K	0.0K	0.0K
100%	97%	88%	74%	58%	44%	33%	25%	19%	15%	13%	10%	7%	5%	2%	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
18.3°	43.9°	55.5°	99.4%	99.1%

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	96	
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	96	95	94	93	92	
3	108	104	100	98	106	102	99	97	100	97	95	98	96	94	96	94	92	91	90	89	
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89	88	87	
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	91	89	87	86	85	84	
6	100	94	90	87	98	93	89	87	92	89	86	91	88	86	89	87	85	84	83	82	
7	97	91	87	84	96	90	87	84	89	86	84	88	86	83	87	85	83	82	81	80	
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80	79	78	
9	93	86	82	80	92	86	82	80	85	82	80	84	81	79	84	81	79	78	77	76	
10	90	84	80	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76	75	74	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
728 lm	691 lm	295 lm	12.2 lm	4.65 lm	3.04 lm	2.70 lm	3.36 lm	4.23 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