

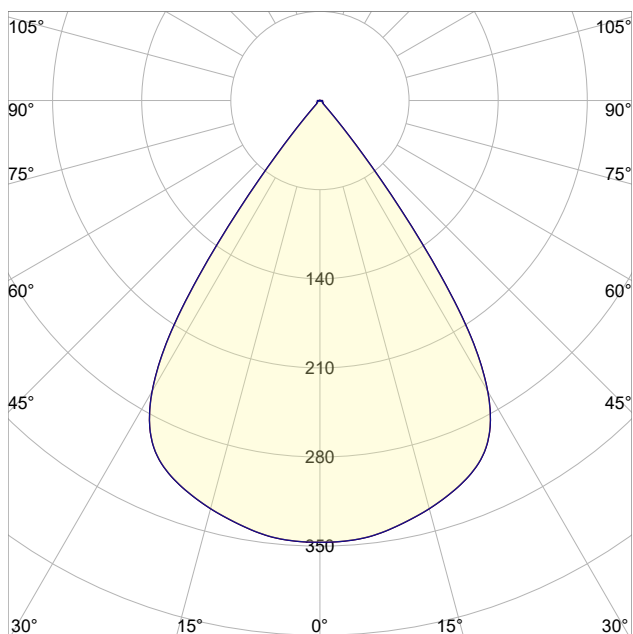
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Test Report

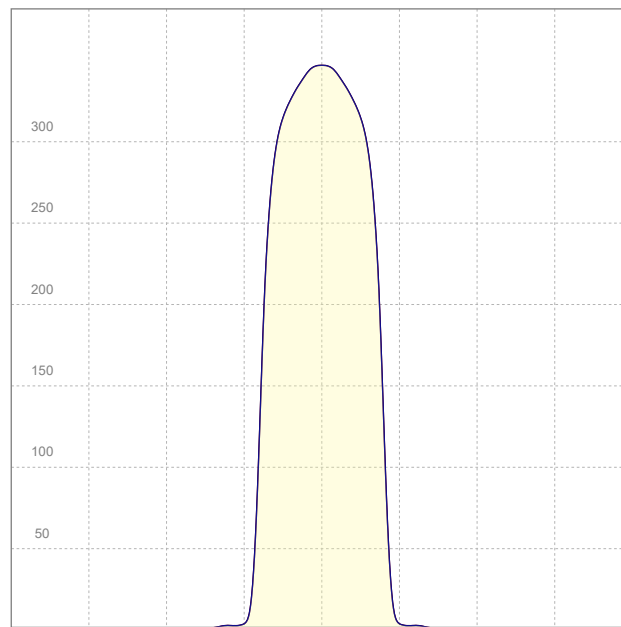
LM79-FOCUS-G4-2700K-CRI95-WIDE

General Discription

Item number	FS-XX-X-2795-Z
Date and time	14-9-2022 16:13:38
CCT (Kelvin)	2732 K
Beam angle	68,8°
Luminous flux	366 lm
Efficiency	55 lm/watt
Weighted energy	6,6 kWh/1000h
Power factor	0,8
CRI (RA)	93,6
Fidelity index Rf	Rf 92,3
Gammut index Rg	Rg 100,0
Peak	347 cd



Polar curve



Linear distribution diagram



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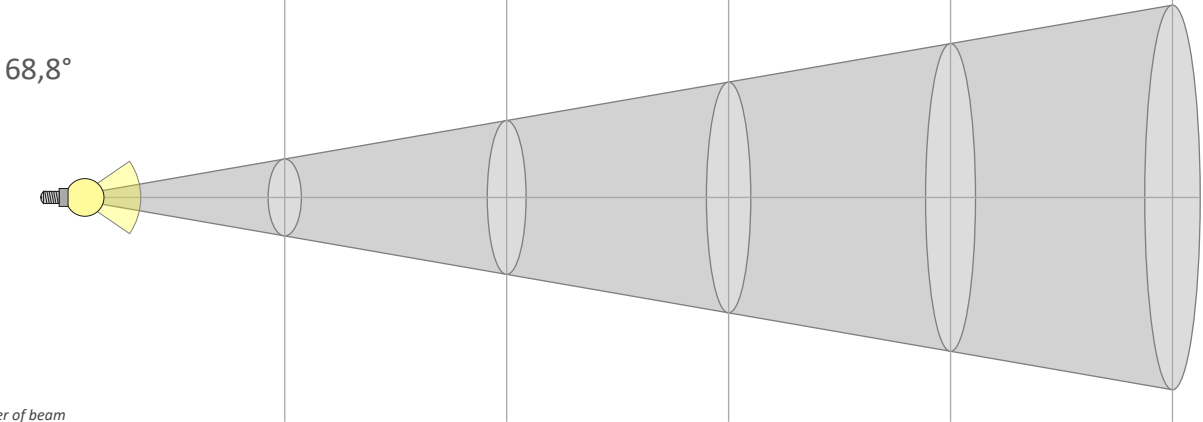
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Beam details	1m	2m	3m	4m	5m
Lux*	347 lx	87 lx	39 lx	22 lx	14 lx



68,8°

*measured at center of beam

Footcandles*	32,2 fcd	8,1 fcd	3,6 fcd	2,0 fcd	1,3 fcd
Beam width (meter)	1,4 m	2,7 m	4,1 m	5,5 m	6,8 m
Beam width (Feet)	4,5 ft	9 ft	13,5 ft	18 ft	22,4 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
347lx	87lx	39lx	22lx	14lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
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
32,2fcd	8,1fcd	3,6fcd	2fcd	1,3fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
347	347	346	345	343	340	337	334	330	326	321	316	309	300	285	263	231	184	124	68
100%	100%	100%	99%	99%	98%	97%	96%	95%	94%	93%	91%	89%	86%	82%	76%	67%	53%	36%	20%

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°
347	347	346	345	343	340	337	334	330	326	321	316	309	300	285	263	231	184	124	68
100%	100%	100%	99%	99%	98%	97%	96%	95%	94%	93%	91%	89%	86%	82%	76%	67%	53%	36%	20%

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°
347	347	346	345	343	340	337	334	330	326	321	316	309	300	285	263	231	184	124	68
100%	100%	100%	99%	99%	98%	97%	96%	95%	94%	93%	91%	89%	86%	82%	76%	67%	53%	36%	20%

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°
347	347	346	345	343	340	337	334	330	326	321	316	309	300	285	263	231	184	124	68
100%	100%	100%	99%	99%	98%	97%	96%	95%	94%	93%	91%	89%	86%	82%	76%	67%	53%	36%	20%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68,8°	79,3°	84,8°	99,5%	98,5%



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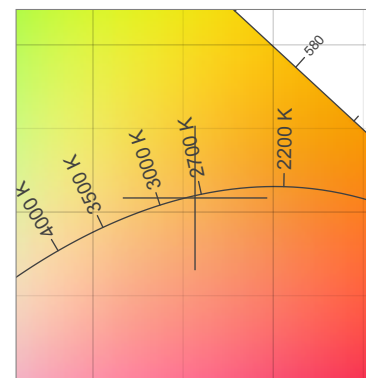
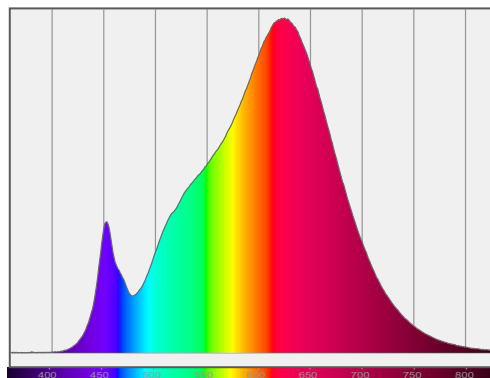
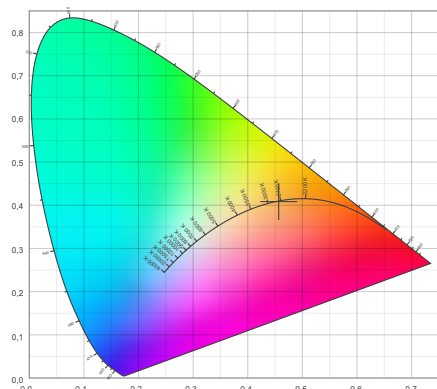
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Color details



CIE 1931

x: 0,457



Spectra

CIE 1931 ZOOM

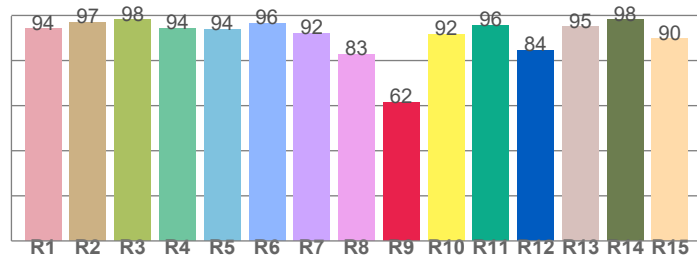
2732 K

y: 0,408

Δuv : -0,0005

CRI: 93,6 (R1-R8)

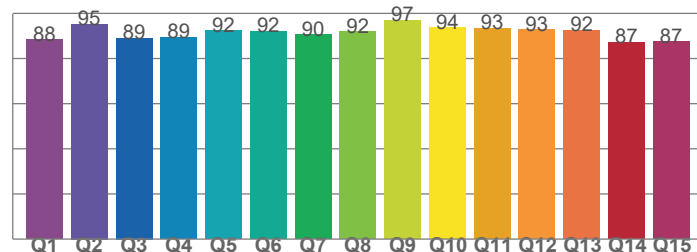
CRI values, R1-R8 are used to calculate final CRI value



R1	R2	R3	R4	R5	R6	R7	R8
94,1	96,9	98,0	94,3	93,8	96,5	92,2	82,6
R9	R10	R11	R12	R13	R14	R15	
61,6	91,6	95,6	84,4	95,0	98,0	89,6	

CQS: 90,9

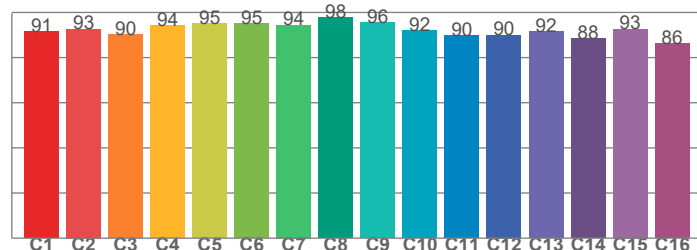
CQS values



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
88,3	95,3	89,1	89,4	92,3	92,1	90,5	91,9
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
97,0	93,6	93,3	92,7	92,5	87,2	87,4	

TM30: 92,3

TM30 values, 16 binned values out of total of 99 values



C1	C2	C3	C4	C5	C6	C7	C8
91,5	92,7	90,3	94,2	95,1	95,2	94,4	97,9
C9	C10	C11	C12	C13	C14	C15	
95,7	91,9	89,9	90,0	91,7	88,3	92,7	

Color parameters

Color temperature	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
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2732 K	93,6	61,6	92,3	100,0	90,9	0,457	0,408	0,261	0,351	-0,0005



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TM30 details

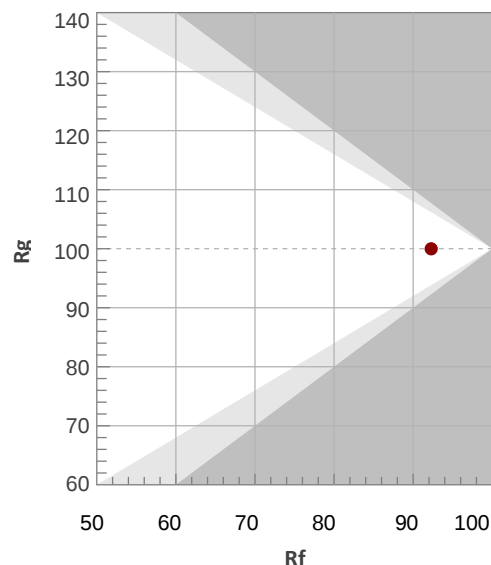
Rf 92,3

Fidelity index Rf

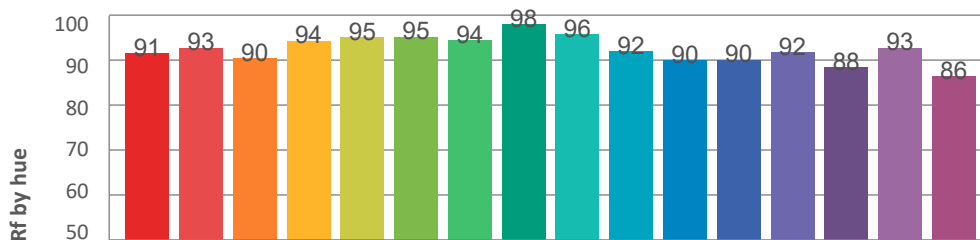
Rg 100,0

Gamut index Rg

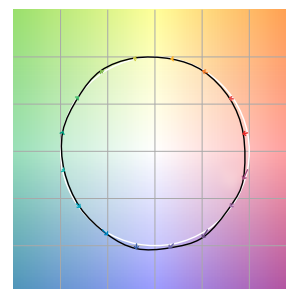
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	3%
3	90	-1%	5%
4	94	-1%	2%
5	95	1%	3%
6	95	3%	0%
7	94	-1%	-3%
8	98	0%	-1%
9	96	-2%	1%
10	92	-1%	5%
11	90	1%	7%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	93	-1%	-4%
16	86	-2%	-10%



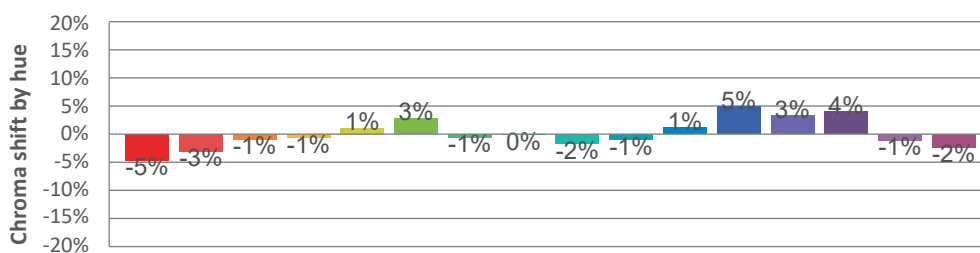
Hue binH



Color vector graphics



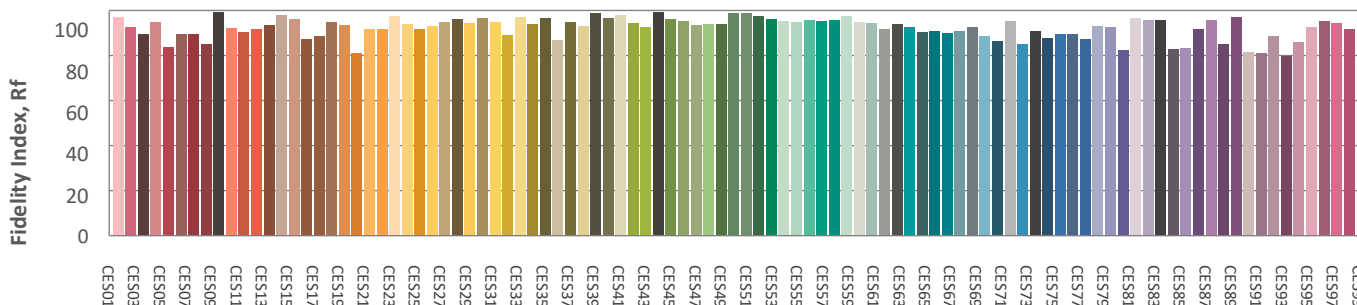
Hue bin



Color distortion graphics



Color Evaluation Sample



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Glare Evaluation According to UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,0	23,7	23,1	23,9	24,1	23,0	23,7	23,1	23,9	24,1
	3H	22,7	23,5	23,1	23,7	23,9	22,7	23,5	23,1	23,7	23,9
	4H	22,7	23,4	23,1	23,6	23,9	22,7	23,4	23,1	23,6	23,9
	6H	22,7	23,3	23,0	23,6	23,9	22,7	23,3	23,0	23,6	23,9
	8H	22,6	23,2	22,9	23,5	23,9	22,6	23,2	22,9	23,5	23,9
	12H	22,6	23,1	22,9	23,5	23,9	22,6	23,1	22,9	23,5	23,9
4H	2H	22,7	23,4	23,1	23,6	23,9	22,7	23,4	23,1	23,6	23,9
	3H	22,6	23,1	22,9	23,5	23,9	22,6	23,1	22,9	23,5	23,9
	4H	22,4	22,9	22,8	23,4	23,9	22,4	22,9	22,8	23,4	23,9
	6H	22,3	22,9	22,8	23,2	23,6	22,3	22,9	22,8	23,2	23,6
	8H	22,3	22,8	22,8	23,1	23,5	22,3	22,8	22,8	23,1	23,5
	12H	22,2	22,6	22,7	23,0	23,5	22,2	22,6	22,7	23,0	23,5
8H	4H	22,3	22,8	22,8	23,1	23,5	22,3	22,8	22,8	23,1	23,5
	6H	22,2	22,6	22,7	23,0	23,6	22,2	22,6	22,7	23,0	23,6
	8H	22,2	22,5	22,7	23,0	23,6	22,2	22,5	22,7	23,0	23,6
	12H	22,2	22,4	22,8	22,9	23,5	22,2	22,4	22,8	22,9	23,5
12H	4H	22,2	22,6	22,7	23,0	23,5	22,2	22,6	22,7	23,0	23,5
	6H	22,2	22,5	22,7	23,0	23,6	22,2	22,5	22,7	23,0	23,6
	8H	22,2	22,4	22,7	22,9	23,5	22,2	22,4	22,7	22,9	23,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		6,1 / -13,4					6,1 / -13,4				
S = 1.5H		8,9 / -14,1					8,9 / -14,1				
S = 2.0H		10,9 / -15,5					10,9 / -15,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 366lm total luminous flux											



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