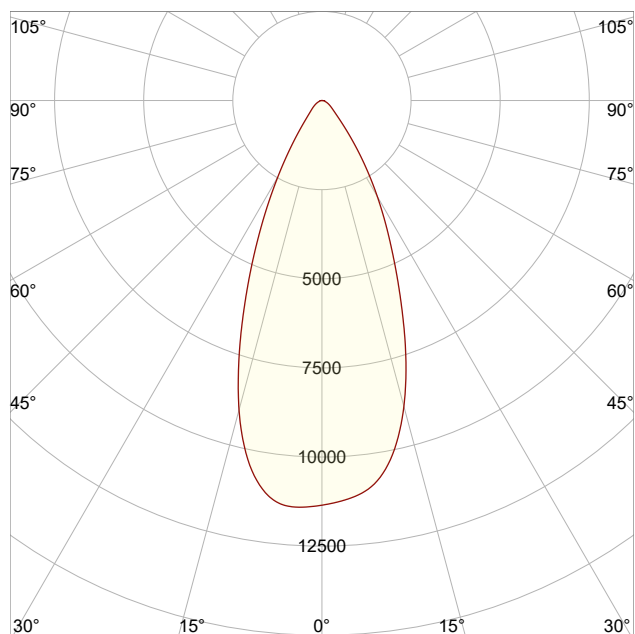
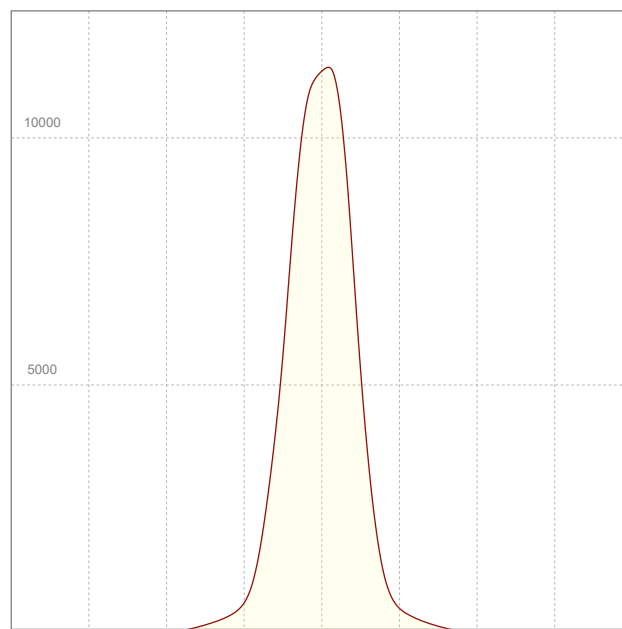


General Discription

Item number	Q-X-X-3090-W
Date and time	5-1-2024 12:03:04
CCT (Kelvin)	3087 K
Beam angle	43,8°
Luminous flux	7485 lm
Efficiency	97 lm/watt
Weighted energy	77,2 kWh/1000h
Power factor	0,56
CRI (RA)	88,5
Fidelity index Rf	Rf 88,6
Gammut index Rg	Rg 99,4
Peak	11428 cd



Polar curve

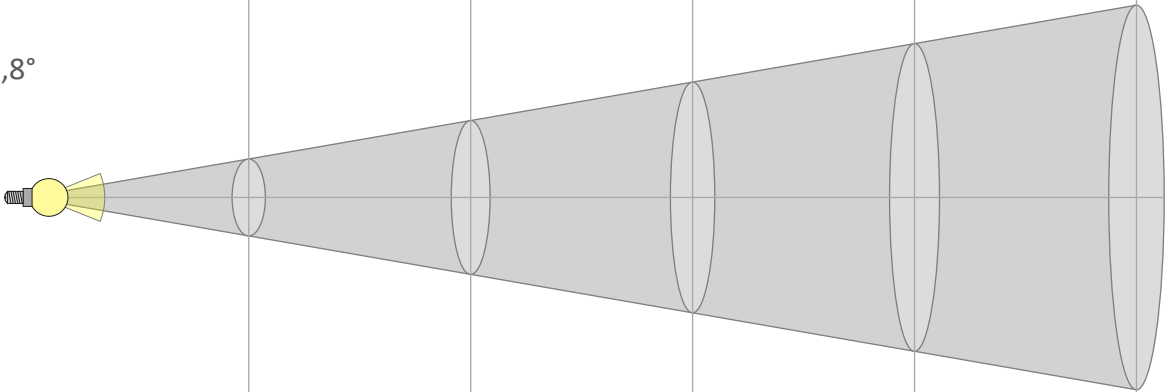


Linear distribution diagram

LM-79

Test Report

LM79-QUARTZ-3000K-CRI90-WIDE

Beam details					1m		2m		3m		4m		5m						
Lux*					11350 lx		2838 lx		1261 lx		709 lx		454 lx						
43,8° 																			
*measured at center of beam																			
Footcandles*					1054,5 fcd		263,6 fcd		117,2 fcd		65,9 fcd		42,2 fcd						
Beam width (meter)					0,8 m		1,6 m		2,4 m		3,2 m		4 m						
Beam width (Feet)					2,6 ft		5,3 ft		7,9 ft		10,6 ft		13,2 ft						
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
11350lx	2838lx	1261lx	709lx	454lx	315lx	232lx	177lx	140lx	114lx	94lx	79lx	67lx	58lx	50lx	44lx	39lx	35lx	31lx	28lx
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
1054,5fcd	263,6fcd	117,2fcd	65,9fcd	42,2fcd	29,3fcd	21,5fcd	16,5fcd	13fcd	10,5fcd	8,7fcd	7,3fcd	6,2fcd	5,4fcd	4,7fcd	4,1fcd	3,6fcd	3,3fcd	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°
11,4K	11,3K	11,2K	11,1K	10,8K	10,4K	9,9K	9,3K	8,5K	7,6K	6,7K	5,8K	5,0K	4,3K	3,7K	3,1K	2,6K	2,1K	1,7K	1,3K
100%	99%	99%	97%	95%	92%	87%	81%	75%	67%	59%	51%	44%	38%	32%	27%	23%	18%	15%	11%
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°
11,4K	11,3K	11,2K	11,1K	10,8K	10,4K	9,9K	9,3K	8,5K	7,6K	6,7K	5,8K	5,0K	4,3K	3,7K	3,1K	2,6K	2,1K	1,7K	1,3K
100%	99%	99%	97%	95%	92%	87%	81%	75%	67%	59%	51%	44%	38%	32%	27%	23%	18%	15%	11%
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°
11,4K	11,4K	11,4K	11,4K	11,1K	10,7K	10,2K	9,4K	8,5K	7,5K	6,5K	5,5K	4,6K	3,8K	3,1K	2,5K	1,9K	1,5K	1,2K	0,9K
100%	100%	101%	100%	98%	95%	90%	83%	75%	66%	57%	49%	41%	34%	27%	22%	17%	13%	10%	8%
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°
11,4K	11,4K	11,4K	11,4K	11,1K	10,7K	10,2K	9,4K	8,5K	7,5K	6,5K	5,5K	4,6K	3,8K	3,1K	2,5K	1,9K	1,5K	1,2K	0,9K
100%	100%	101%	100%	98%	95%	90%	83%	75%	66%	57%	49%	41%	34%	27%	22%	17%	13%	10%	8%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
43,8°				75,2°				110,1°				96,8%				90,9%			



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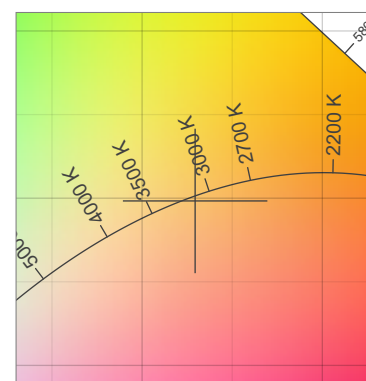
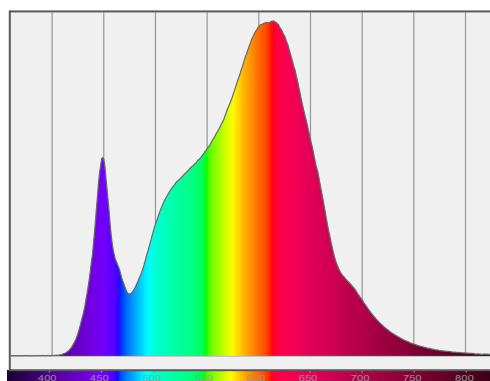
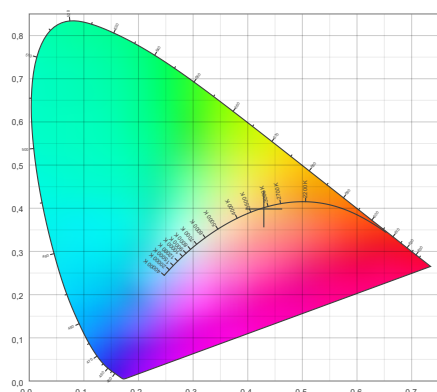
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Test Report

LM79-QUARTZ-3000K-CRI90-WIDE

Color details



CIE 1931

x: 0,429



Spectra

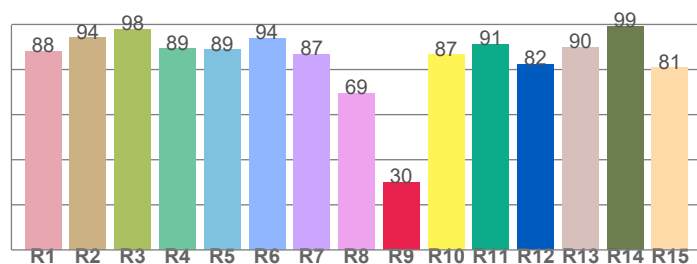
CIE 1931 ZOOM

3087 K

y: 0,398

Δuv : -0,0012

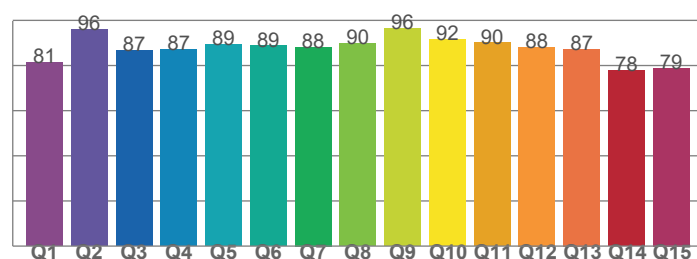
CRI: 88,5 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
88,2	94,1	97,8	89,2	88,8	93,7	86,7	69,5
R9	R10	R11	R12	R13	R14	R15	
30,0	86,5	91,1	82,2	89,8	99,2	80,8	

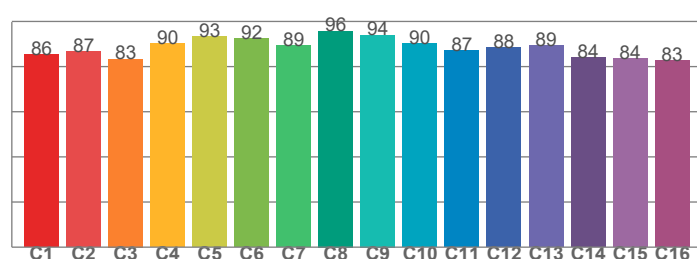
CQS: 86,7



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
81,5	96,1	86,7	87,2	89,4	88,7	88,2	89,7
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
96,5	91,6	90,1	88,2	87,3	77,9	78,9	

TM30: 88,6



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

C1	C2	C3	C4	C5	C6	C7	C8
85,5	86,7	83,4	90,3	93,2	92,4	89,5	95,8
C9	C10	C11	C12	C13	C14	C15	
93,9	90,3	87,2	88,3	89,3	84,0	83,5	

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
3087 K	88,5	30,0	88,6	99,4	86,7	0,429	0,398	0,248	0,345	-0,0012



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LM-79

Test Report

LM79-QUARTZ-3000K-CRI90-WIDE

TM30 details

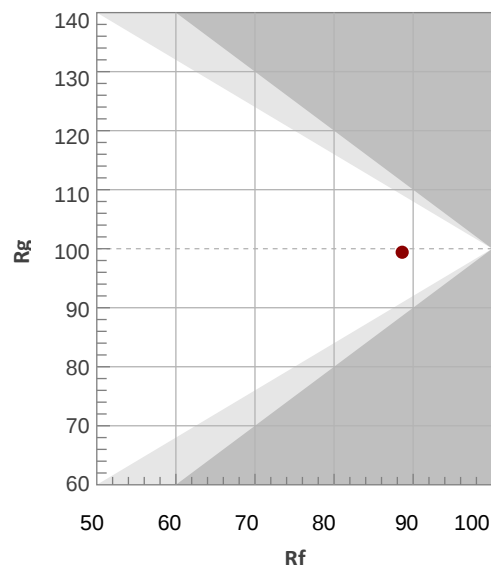
Rf 88,6

Fidelity index Rf

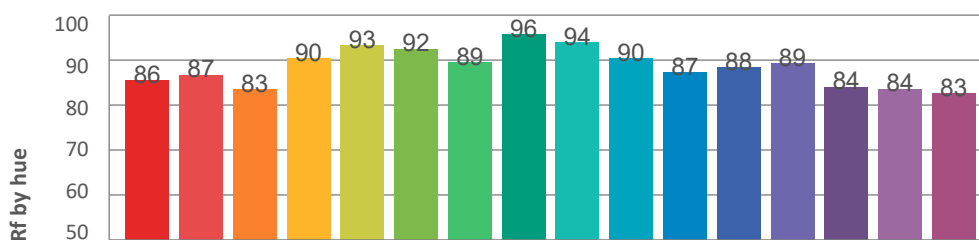
Rg 99,4

Gamut index Rg

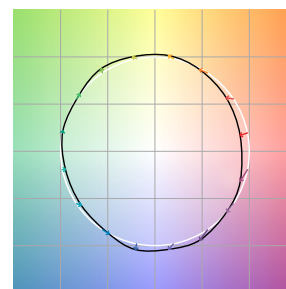
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	86	-8%	-1%
2	87	-6%	5%
3	83	-2%	9%
4	90	2%	6%
5	93	3%	4%
6	92	4%	-1%
7	89	0%	-6%
8	96	0%	-2%
9	94	-3%	0%
10	90	-3%	4%
11	87	0%	8%
12	88	6%	0%
13	89	5%	-6%
14	84	5%	-12%
15	84	-1%	-11%
16	83	-5%	-13%



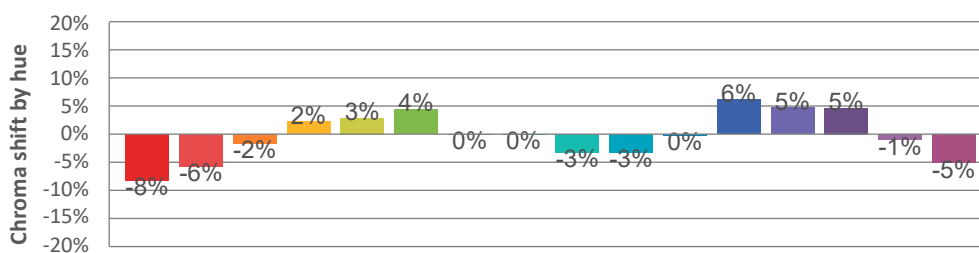
Hue binH



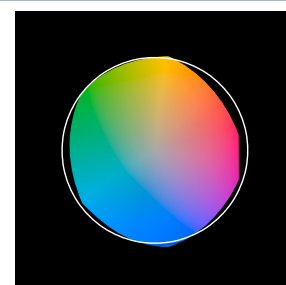
Color vector graphics



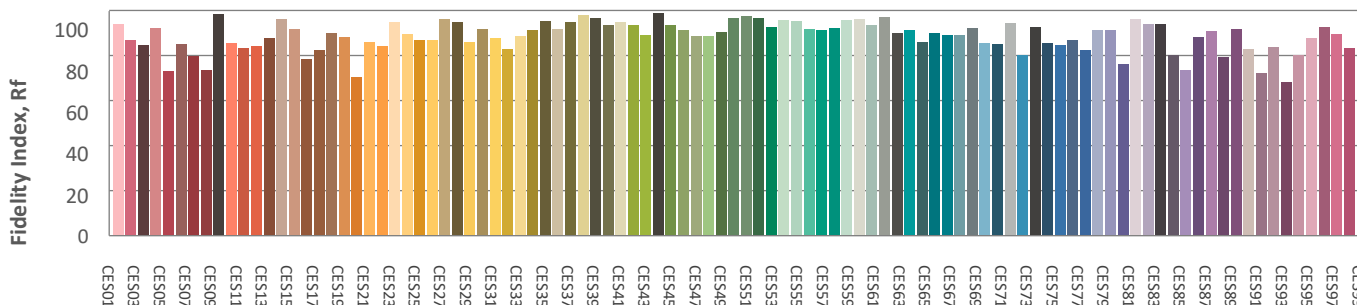
Hue bin



Color distortion graphics



Color Evaluation Sample



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Test Report

LM79-QUARTZ-3000K-CRI90-WIDE

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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 7485lm total luminous flux										



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