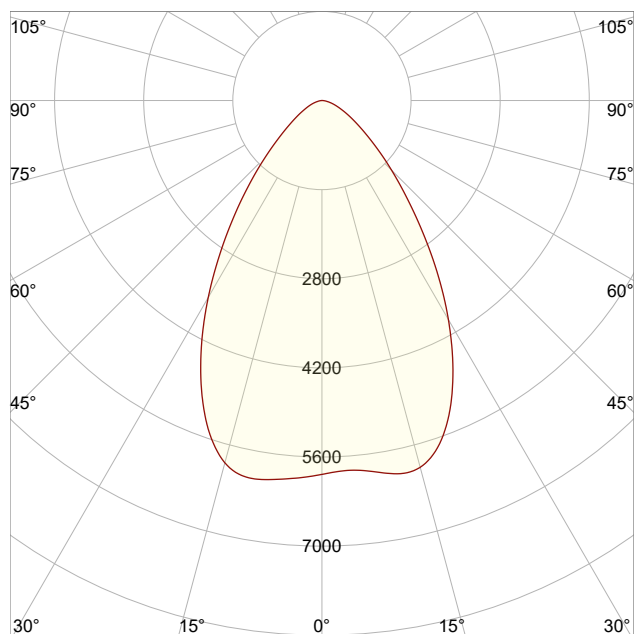
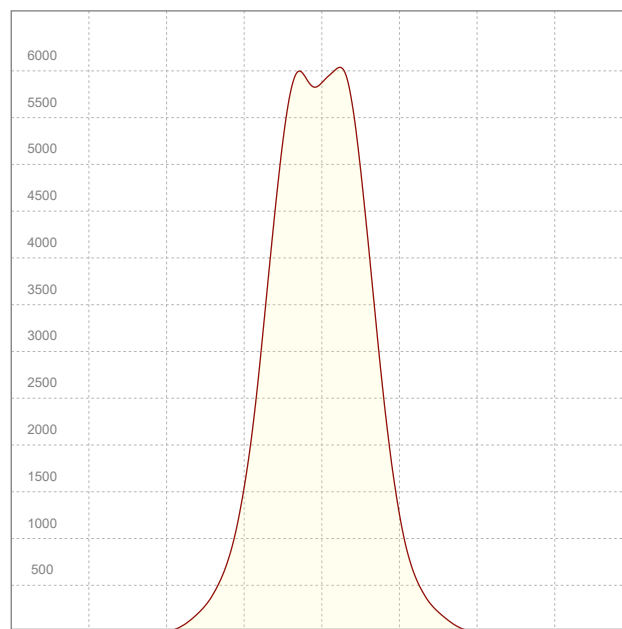


General Discription

Item number	Q-X-X-3090-F
Date and time	5-1-2024 12:14:32
CCT (Kelvin)	3099 K
Beam angle	68°
Luminous flux	8273 lm
Efficiency	107 lm/watt
Weighted energy	77,6 kWh/1000h
Power factor	0,58
CRI (RA)	87,1
Fidelity index Rf	Rf 88,0
Gammut index Rg	Rg 98,5
Peak	6038 cd



Polar curve

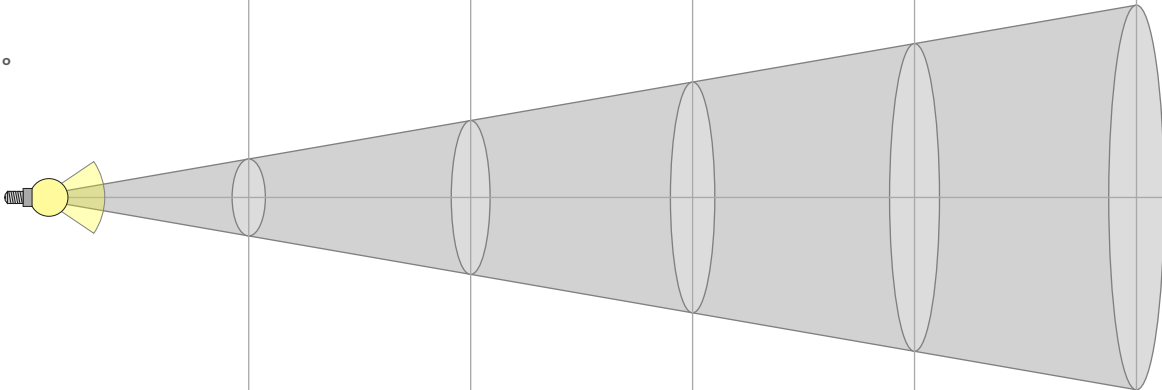


Linear distribution diagram

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LM79-QUARTZ-3000K-CRI90-FLOOD

Beam details				1m		2m		3m		4m		5m							
Lux*				5873 lx		1468 lx		653 lx		367 lx		235 lx							
68° 																			
*measured at center of beam																			
Footcandles*				545,6 fcd		136,4 fcd		60,6 fcd		34,1 fcd		21,8 fcd							
Beam width (meter)				1,3 m		2,7 m		4 m		5,4 m		6,7 m							
Beam width (Feet)				4,4 ft		8,9 ft		13,3 ft		17,7 ft		22,1 ft							
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
5873lx	1468lx	653lx	367lx	235lx	163lx	120lx	92lx	73lx	59lx	49lx	41lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
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
545,6fcd	136,4fcd	60,6fcd	34,1fcd	21,8fcd	15,2fcd	11,1fcd	8,5fcd	6,7fcd	5,5fcd	4,5fcd	3,8fcd	3,2fcd	2,8fcd	2,4fcd	2,1fcd	1,9fcd	1,7fcd	1,5fcd	1,4fcd
Intensities in 0° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
5873	5830	5946	5962	5580	4862	3971	3036	2189	1545	1063	731	507	345	232	145	76	30	6	0
100%	99%	101%	102%	95%	83%	68%	52%	37%	26%	18%	12%	9%	6%	4%	2%	1%	1%	0%	0%
Intensities in 90° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
5873	5830	5946	5962	5580	4862	3971	3036	2189	1545	1063	731	507	345	232	145	76	30	6	0
100%	99%	101%	102%	95%	83%	68%	52%	37%	26%	18%	12%	9%	6%	4%	2%	1%	1%	0%	0%
Intensities in 180° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
5873	5963	6035	5889	5331	4501	3570	2651	1865	1257	827	557	380	259	174	101	47	14	2	0
100%	102%	103%	100%	91%	77%	61%	45%	32%	21%	14%	9%	6%	4%	3%	2%	1%	0%	0%	0%
Intensities in 270° c-plane																			
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
5873	5963	6035	5889	5331	4501	3570	2651	1865	1257	827	557	380	259	174	101	47	14	2	0
100%	102%	103%	100%	91%	77%	61%	45%	32%	21%	14%	9%	6%	4%	3%	2%	1%	0%	0%	0%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
68°				111,5°				146,2°				94,4%				81,6%			



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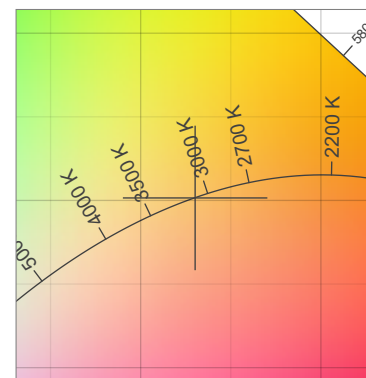
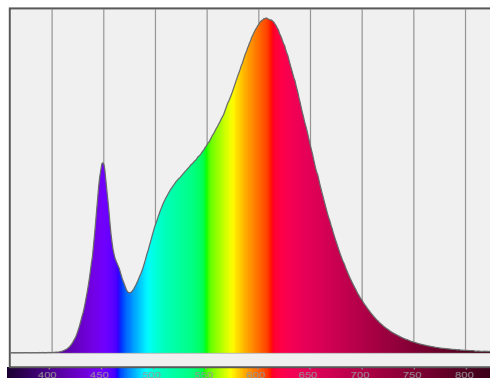
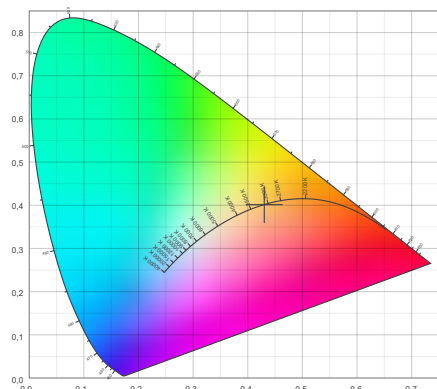
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Test Report

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Color details



CIE 1931

x: 0,430



Spectra

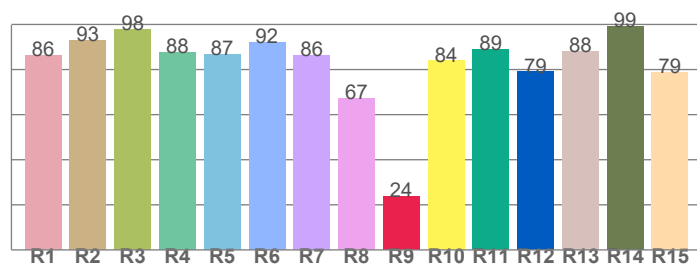
CIE 1931 ZOOM

3099 K

y: 0,401

Δuv : -0,0002

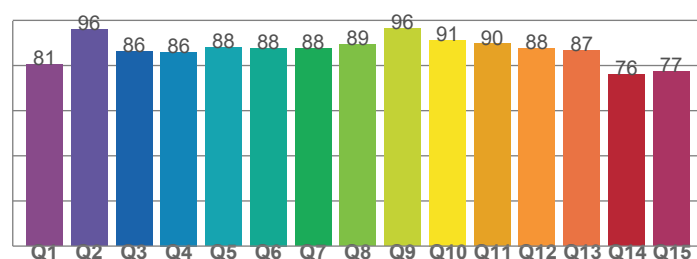
CRI: 87,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
86,4	92,9	97,8	87,6	86,8	92,2	86,3	67,2
R9	R10	R11	R12	R13	R14	R15	
23,8	83,8	89,0	79,0	88,0	99,1	78,6	

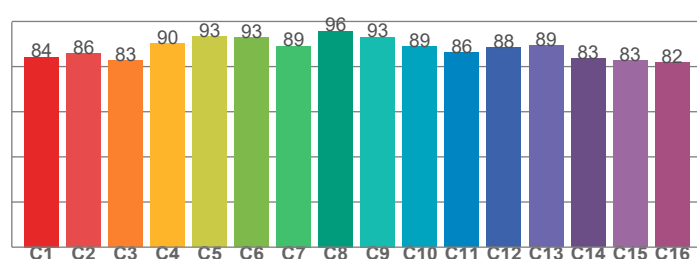
CQS: 85,9



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
80,6	96,0	86,2	86,0	88,1	87,8	87,7	89,5
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
96,4	91,3	89,7	87,8	86,6	76,1	77,5	

TM30: 88,0



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

C1	C2	C3	C4	C5	C6	C7	C8
84,3	85,7	82,6	90,1	93,4	93,0	89,2	95,8
C9	C10	C11	C12	C13	C14	C15	
93,1	88,8	86,1	88,4	89,4	83,5	82,7	

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
3099 K	87,1	23,8	88,0	98,5	85,9	0,430	0,401	0,247	0,346	-0,0002



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Test Report

LM79-QUARTZ-3000K-CRI90-FLOOD

TM30 details

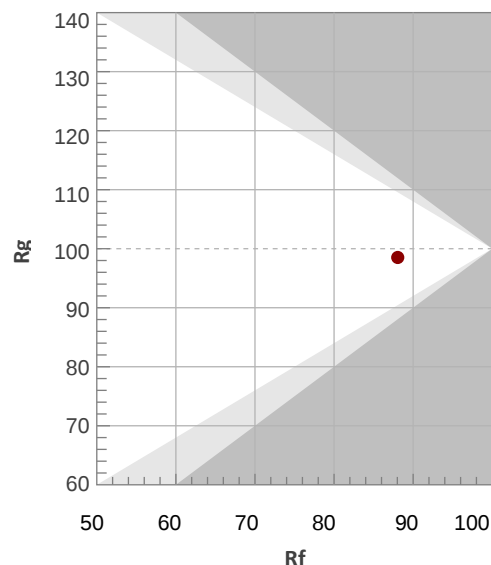
Rf 88,0

Fidelity index Rf

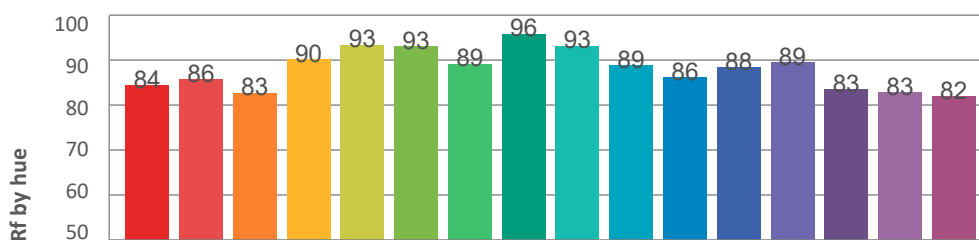
Rg 98,5

Gamut index Rg

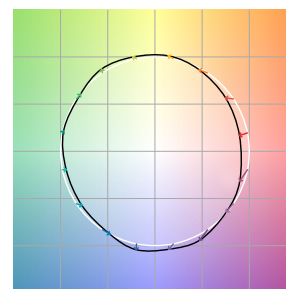
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	-9%	-1%
2	86	-6%	5%
3	83	-2%	9%
4	90	2%	6%
5	93	3%	4%
6	93	4%	-1%
7	89	-1%	-6%
8	96	-1%	-2%
9	93	-4%	1%
10	89	-4%	5%
11	86	0%	9%
12	88	6%	1%
13	89	5%	-6%
14	83	5%	-13%
15	83	-1%	-11%
16	82	-6%	-13%



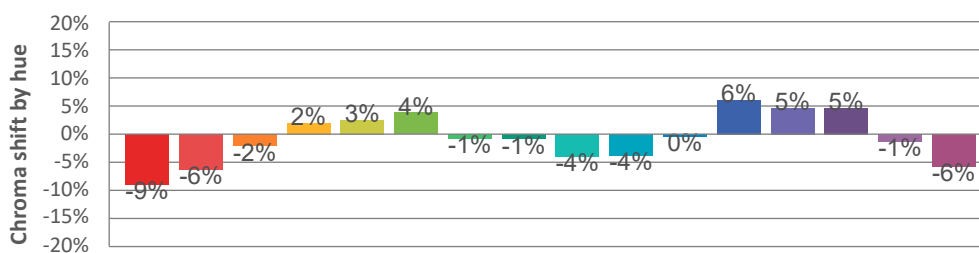
Hue binH



Color vector graphics



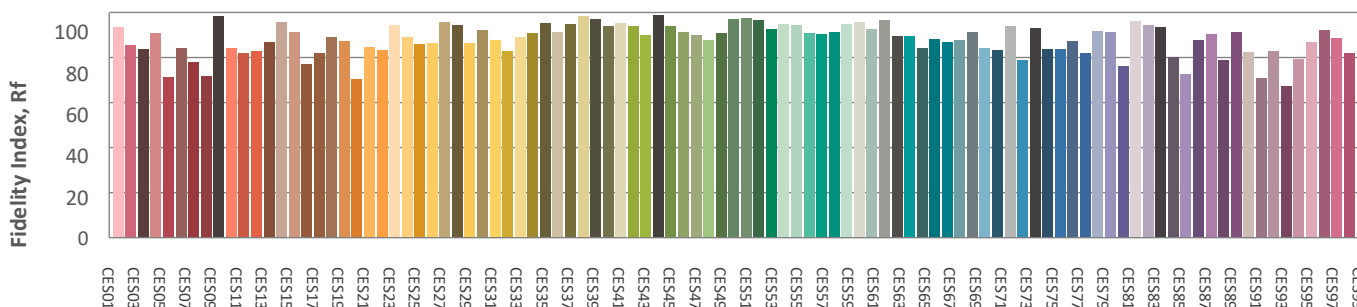
Hue bin



Color distortion graphics



Color Evaluation Sample



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LM79-QUARTZ-3000K-CRI90-FLOOD

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
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 8273lm total luminous flux										



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