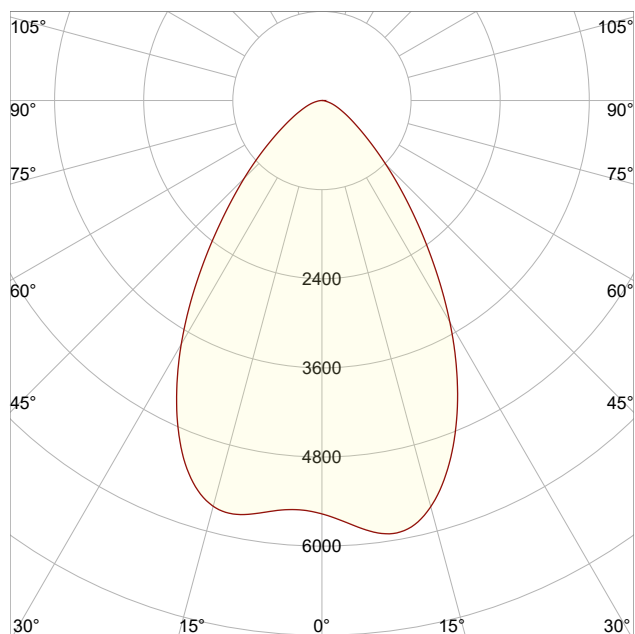
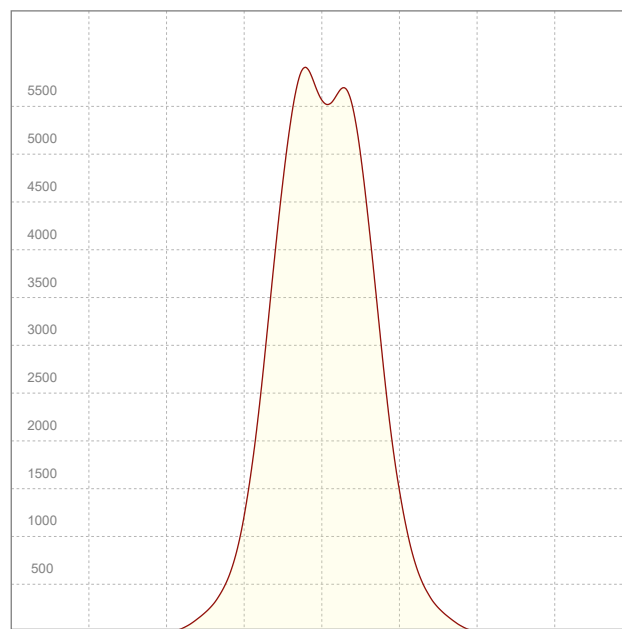


General Discription

Item number	Q-BXX-2780-F
Date and time	5-1-2024 15:19:51
CCT (Kelvin)	2737 K
Beam angle	67,4°
Luminous flux	7897 lm
Efficiency	102 lm/watt
Weighted energy	77,4 kWh/1000h
Power factor	0,57
CRI (RA)	86,3
Fidelity index Rf	Rf 87,8
Gammut index Rg	Rg 97,8
Peak	5908 cd



Polar curve

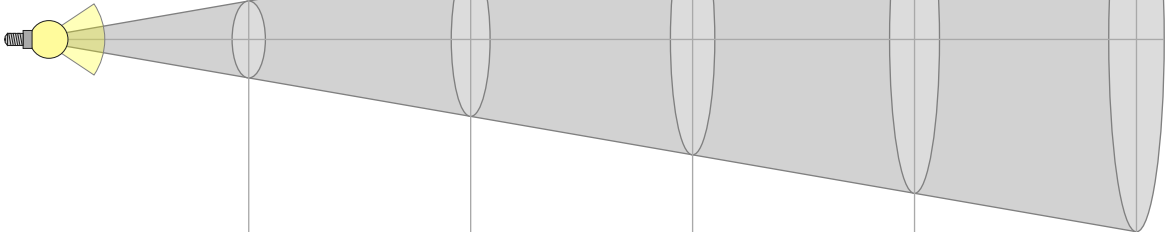


Linear distribution diagram

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LM79-QUARTZ-2700K-CRI80-FLOOD

Beam details				1m		2m		3m		4m		5m							
Lux*				5566 lx		1392 lx		618 lx		348 lx		223 lx							
67,4° 																			
*measured at center of beam																			
Footcandles*				517,1 fcd		129,3 fcd		57,5 fcd		32,3 fcd		20,7 fcd							
Beam width (meter)				1,3 m		2,7 m		4 m		5,3 m		6,7 m							
Beam width (Feet)				4,4 ft		8,7 ft		13,1 ft		17,5 ft		21,9 ft							
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
5566lx	1392lx	618lx	348lx	223lx	155lx	114lx	87lx	69lx	56lx	46lx	39lx	33lx	28lx	25lx	22lx	19lx	17lx	15lx	14lx
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
517,1fcd	129,3fcd	57,5fcd	32,3fcd	20,7fcd	14,4fcd	10,6fcd	8,1fcd	6,4fcd	5,2fcd	4,3fcd	3,6fcd	3,1fcd	2,6fcd	2,3fcd	2fcd	1,8fcd	1,6fcd	1,4fcd	1,3fcd
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°
5566	5772	5905	5660	5087	4321	3443	2556	1801	1215	798	534	365	249	167	98	46	13	1	0
100%	104%	106%	102%	91%	78%	62%	46%	32%	22%	14%	10%	7%	4%	3%	2%	1%	0%	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°
5566	5772	5905	5660	5087	4321	3443	2556	1801	1215	798	534	365	249	167	98	46	13	1	0
100%	104%	106%	102%	91%	78%	62%	46%	32%	22%	14%	10%	7%	4%	3%	2%	1%	0%	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°
5566	5531	5656	5654	5292	4622	3787	2897	2095	1479	1007	671	454	307	209	134	71	28	6	0
100%	99%	102%	102%	95%	83%	68%	52%	38%	27%	18%	12%	8%	6%	4%	2%	1%	1%	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°
5566	5531	5656	5654	5292	4622	3787	2897	2095	1479	1007	671	454	307	209	134	71	28	6	0
100%	99%	102%	102%	95%	83%	68%	52%	38%	27%	18%	12%	8%	6%	4%	2%	1%	1%	0%	0%
Beam angle 50%				Field angle 10%				Cutoff angle 2,5%				Intensity ratio in 120° cone				Intensity ratio in 90° cone			
67,4°				110,3°				145,4°				94,5%				81,9%			



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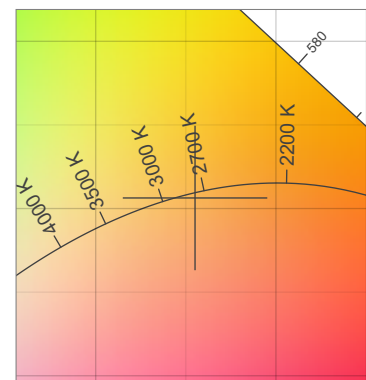
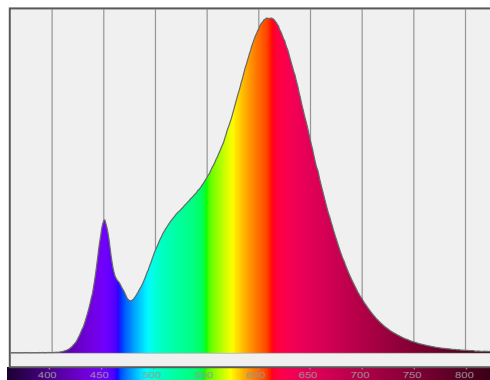
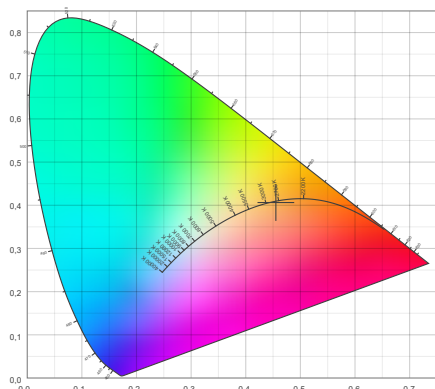
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Test Report

LM79-QUARTZ-2700K-CRI80-FLOOD

Color details



CIE 1931

x: 0,455



Spectra

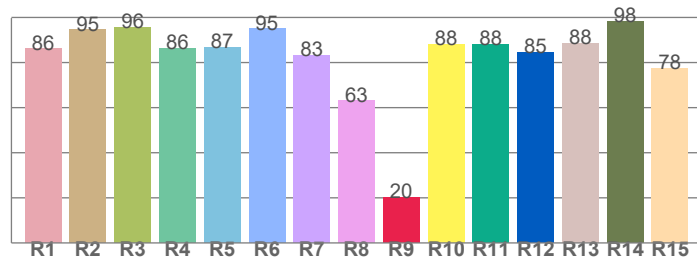
CIE 1931 ZOOM

2737 K

y: 0,406

 Δuv : -0,0012

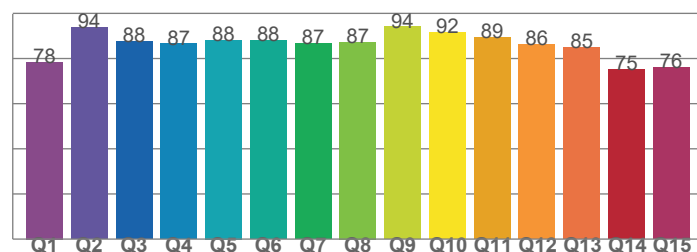
CRI: 86,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
86,1	94,5	95,6	86,2	86,9	95,0	83,3	63,1
R9	R10	R11	R12	R13	R14	R15	
20,4	88,0	88,1	84,6	88,4	98,4	77,5	

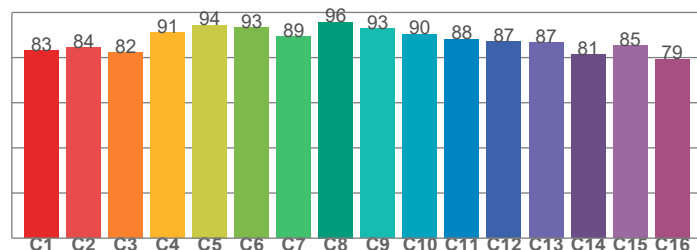
CQS: 85,0



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
78,5	93,9	87,6	86,5	88,2	87,9	86,7	87,3
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
94,1	91,7	89,3	86,4	85,0	75,1	76,0	

TM30: 87,8



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

C1	C2	C3	C4	C5	C6	C7	C8
83,0	84,5	82,3	91,3	94,5	93,3	89,4	95,7
C9	C10	C11	C12	C13	C14	C15	
93,0	90,5	88,3	87,0	86,8	81,4	85,4	

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
2737 K	86,3	20,4	87,8	97,8	85,0	0,455	0,406	0,261	0,350	-0,0012



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Test Report

LM79-QUARTZ-2700K-CRI80-FLOOD

TM30 details

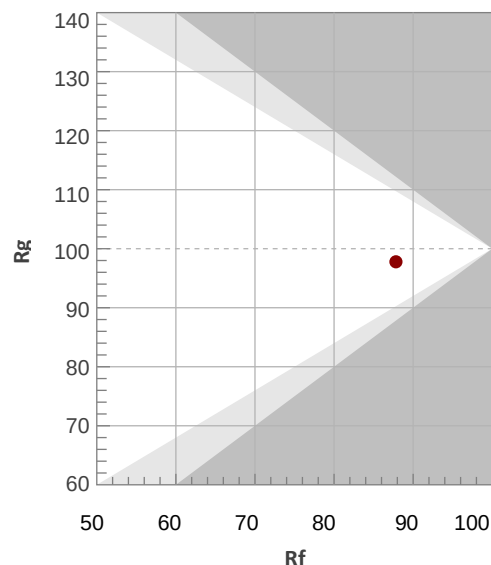
Rf 87,8

Fidelity index Rf

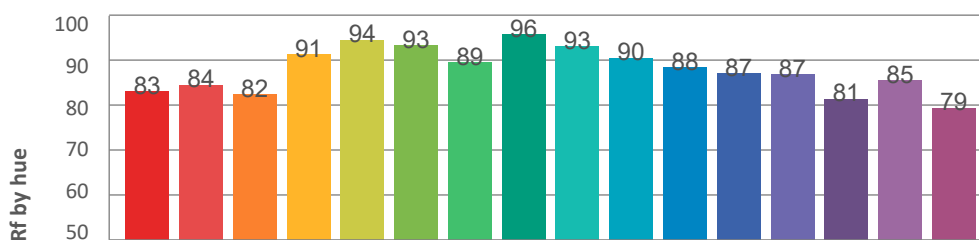
Rg 97,8

Gamut index Rg

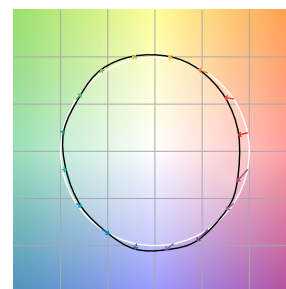
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	83	-10%	0%
2	84	-6%	6%
3	82	-2%	9%
4	91	1%	5%
5	94	3%	3%
6	93	4%	-1%
7	89	-1%	-7%
8	96	-1%	-2%
9	93	-4%	1%
10	90	-3%	5%
11	88	0%	8%
12	87	6%	0%
13	87	5%	-9%
14	81	4%	-15%
15	85	-2%	-9%
16	79	-8%	-14%



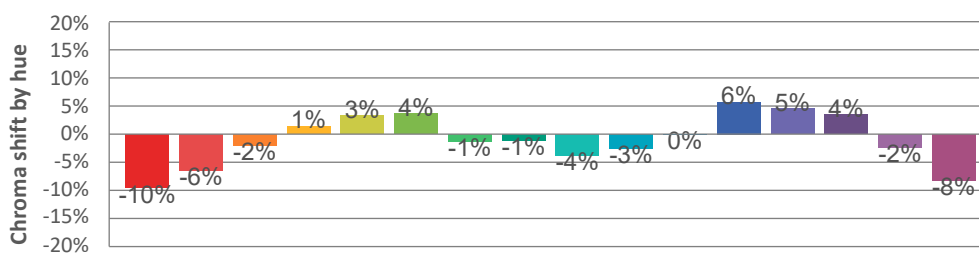
Hue binH



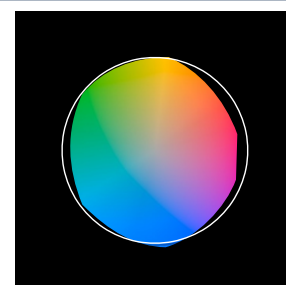
Color vector graphics



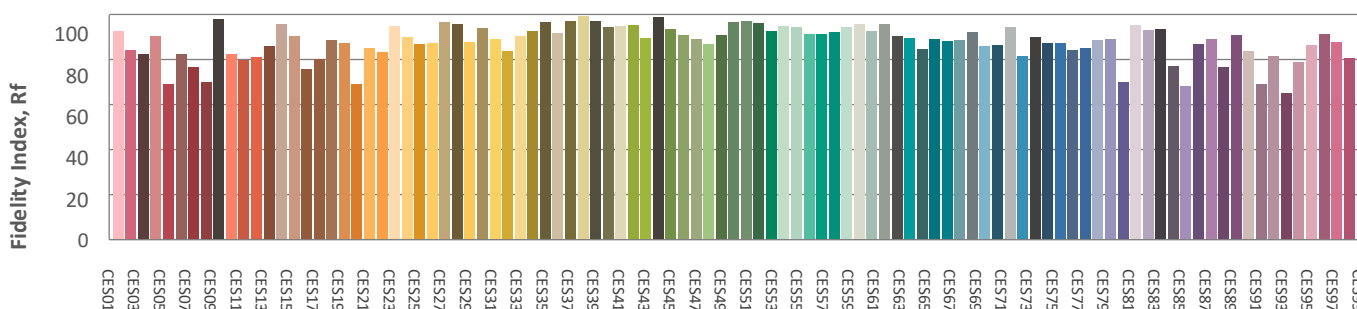
Hue bin



Color distortion graphics



Color Evaluation Sample



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Test Report

LM79-QUARTZ-2700K-CRI80-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
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 7897lm total luminous flux										



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