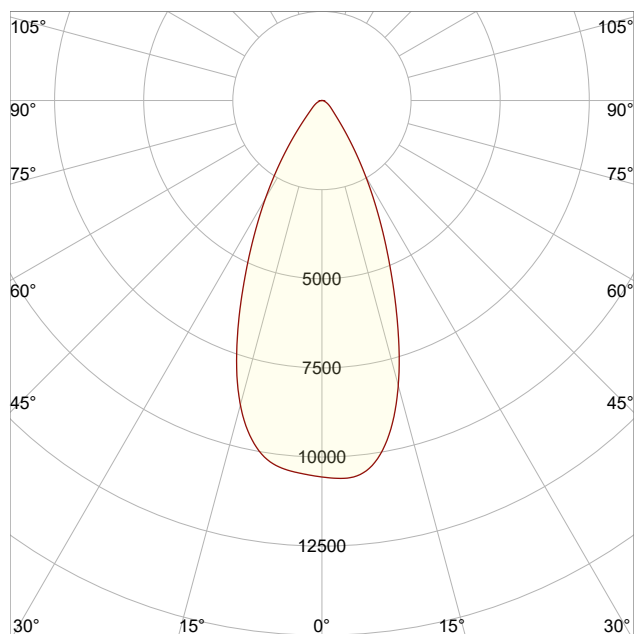
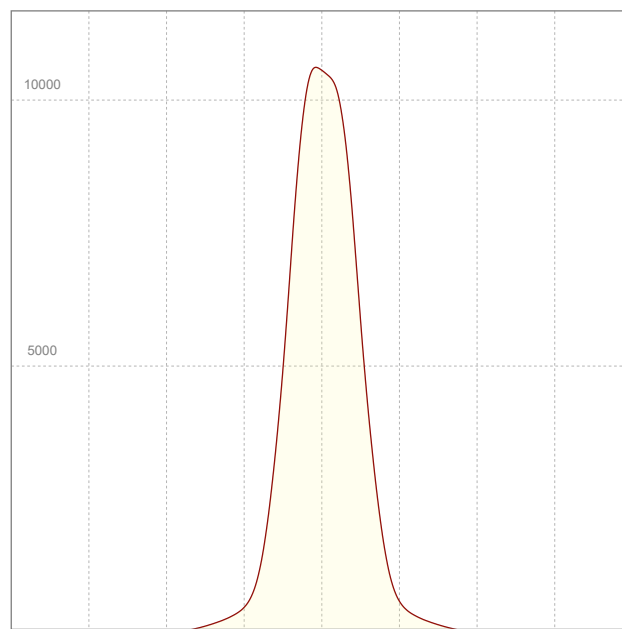


General Discription

Item number	Q-BXX-2780-W
Date and time	5-1-2024 15:25:36
CCT (Kelvin)	2717 K
Beam angle	45,4°
Luminous flux	7276 lm
Efficiency	95 lm/watt
Weighted energy	76,9 kWh/1000h
Power factor	0,54
CRI (RA)	87,4
Fidelity index Rf	Rf 88,3
Gammut index Rg	Rg 98,7
Peak	10616 cd



Polar curve



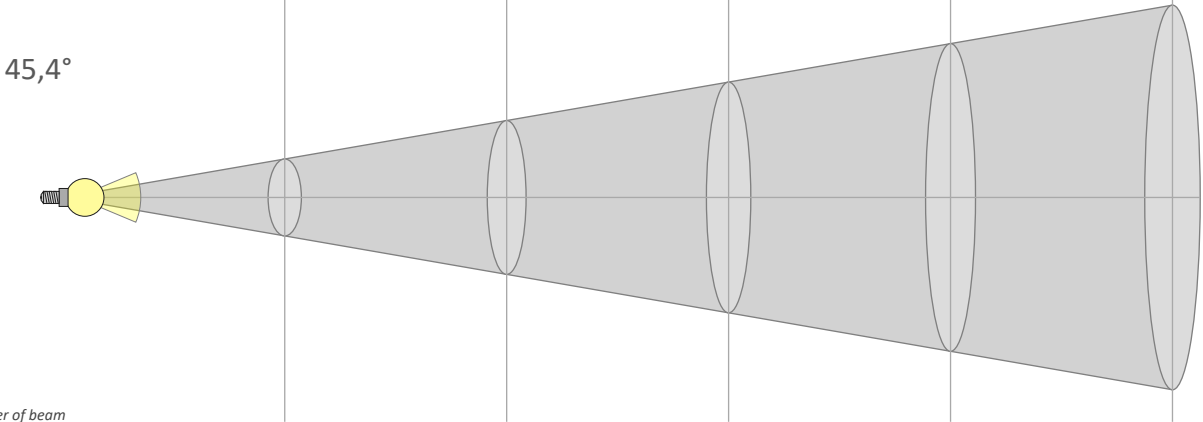
Linear distribution diagram

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Test Report

LM79-QUARTZ-2700K-CRI80-WIDE

Beam details		1m	2m	3m	4m	5m
Lux*		10559 lx	2640 lx	1173 lx	660 lx	422 lx



45,4°

*measured at center of beam

Footcandles*	981,0 fcd	245,3 fcd	109,0 fcd	61,3 fcd	39,2 fcd
Beam width (meter)	0,8 m	1,7 m	2,5 m	3,3 m	4,2 m
Beam width (Feet)	2,7 ft	5,5 ft	8,2 ft	11 ft	13,7 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
10559lx	2640lx	1173lx	660lx	422lx	293lx	215lx	165lx	130lx	106lx	87lx	73lx	62lx	54lx	47lx	41lx	37lx	33lx	29lx	26lx
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
981fcd	245,3fcd	109fcd	61,3fcd	39,2fcd	27,3fcd	20fcd	15,3fcd	12,1fcd	9,8fcd	8,1fcd	6,8fcd	5,8fcd	5fcd	4,4fcd	3,8fcd	3,4fcd	3fcd	2,7fcd	2,5fcd

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°
10,6K	10,6K	10,6K	10,5K	10,3K	9,9K	9,4K	8,7K	7,8K	6,9K	6,0K	5,2K	4,4K	3,7K	3,0K	2,4K	1,9K	1,5K	1,2K	0,9K
100%	100%	100%	100%	98%	94%	89%	82%	74%	66%	57%	49%	41%	35%	29%	23%	18%	14%	11%	9%

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°
10,6K	10,6K	10,6K	10,5K	10,3K	9,9K	9,4K	8,7K	7,8K	6,9K	6,0K	5,2K	4,4K	3,7K	3,0K	2,4K	1,9K	1,5K	1,2K	0,9K
100%	100%	100%	100%	98%	94%	89%	82%	74%	66%	57%	49%	41%	35%	29%	23%	18%	14%	11%	9%

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°
10,6K	10,5K	10,5K	10,4K	10,2K	10,0K	9,6K	9,1K	8,5K	7,7K	6,9K	6,0K	5,2K	4,5K	3,8K	3,2K	2,6K	2,1K	1,6K	1,3K
100%	100%	99%	98%	97%	95%	91%	87%	80%	73%	65%	57%	49%	42%	36%	30%	25%	20%	16%	12%

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°
10,6K	10,5K	10,5K	10,4K	10,2K	10,0K	9,6K	9,1K	8,5K	7,7K	6,9K	6,0K	5,2K	4,5K	3,8K	3,2K	2,6K	2,1K	1,6K	1,3K
100%	100%	99%	98%	97%	95%	91%	87%	80%	73%	65%	57%	49%	42%	36%	30%	25%	20%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45,4°	76,3°	111°	96,9%	91,1%



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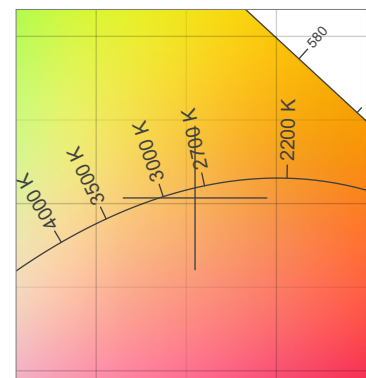
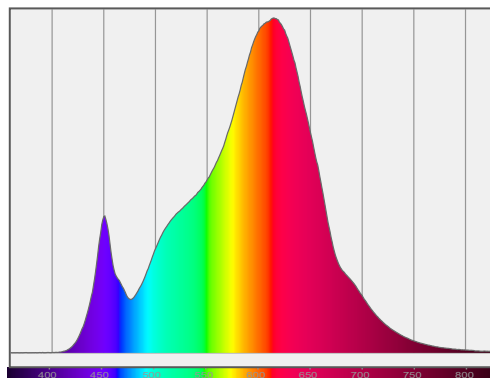
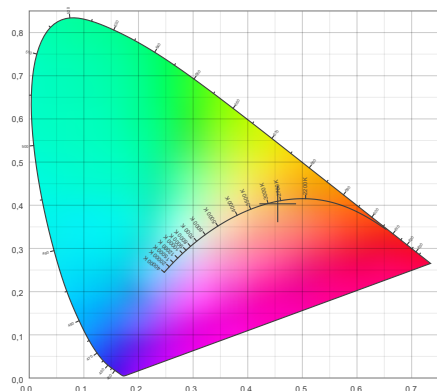
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Test Report

LM79-QUARTZ-2700K-CRI80-WIDE

Color details



CIE 1931

x: 0,455

2717 K

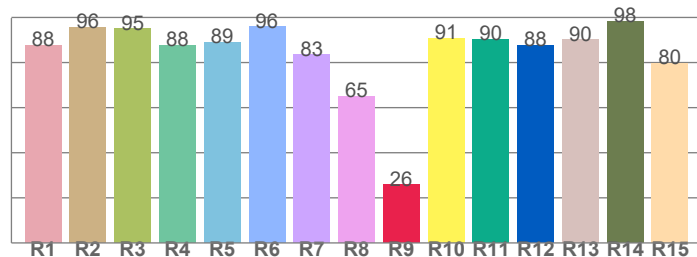
y: 0,403

Spectra

CIE 1931 ZOOM

 $\Delta uv: -0,0023$

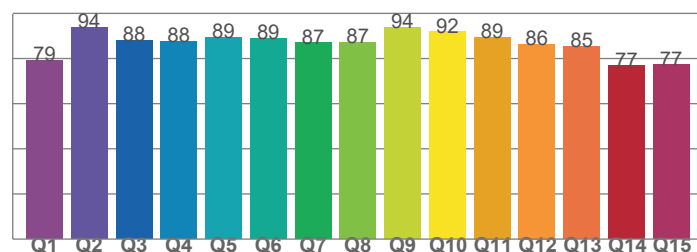
CRI: 87,4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
87,8	95,7	95,0	87,7	88,9	95,9	83,4	65,0
R9	R10	R11	R12	R13	R14	R15	
25,8	90,7	90,2	87,7	90,1	98,1	79,5	

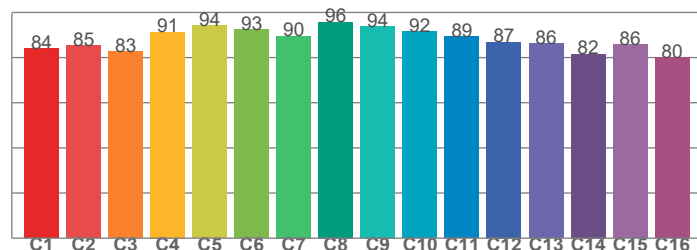
CQS: 85,6



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
79,2	93,7	88,1	87,6	89,5	88,9	87,0	87,1
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
93,8	91,9	89,5	86,4	85,3	76,8	77,2	

TM30: 88,3



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

C1	C2	C3	C4	C5	C6	C7	C8
84,1	85,3	82,8	91,4	94,2	92,6	89,5	95,7
C9	C10	C11	C12	C13	C14	C15	
93,9	91,7	89,4	87,0	86,4	81,6	85,9	

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
2717 K	87,4	25,8	88,3	98,7	85,6	0,455	0,403	0,263	0,349	-0,0023



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LM-79

Test Report

LM79-QUARTZ-2700K-CRI80-WIDE

TM30 details

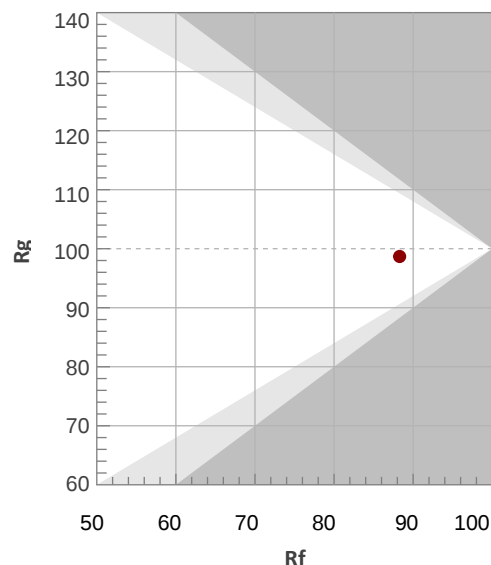
Rf 88,3

Fidelity index Rf

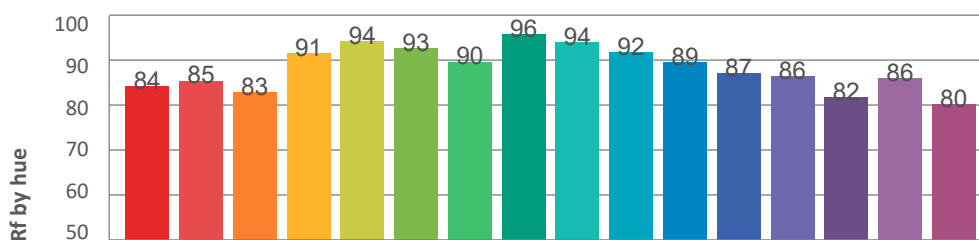
Rg 98,7

Gamut index Rg

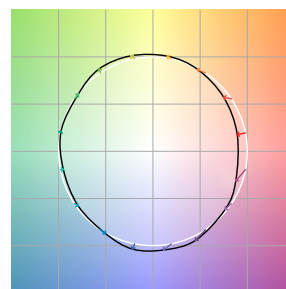
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	84	-9%	0%
2	85	-6%	6%
3	83	-1%	9%
4	91	2%	5%
5	94	4%	3%
6	93	4%	-1%
7	90	-1%	-7%
8	96	0%	-2%
9	94	-3%	0%
10	92	-2%	4%
11	89	0%	7%
12	87	6%	-1%
13	86	5%	-9%
14	82	3%	-15%
15	86	-2%	-9%
16	80	-8%	-14%



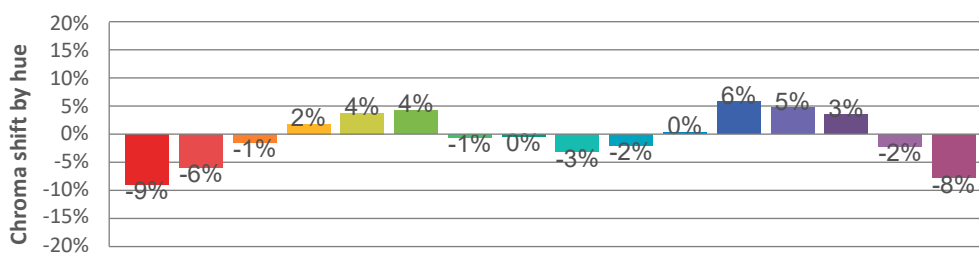
Hue binH



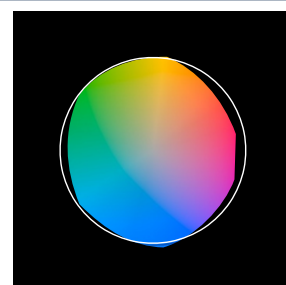
Color vector graphics



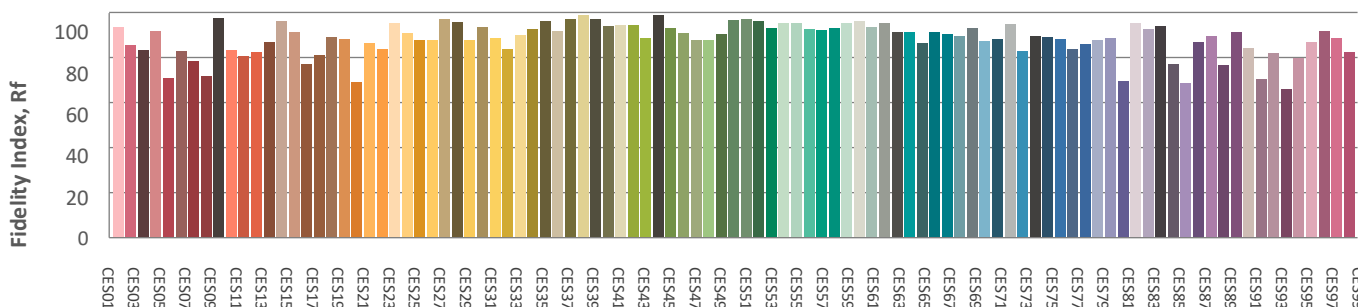
Hue bin



Color distortion graphics



Color Evaluation Sample



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Test Report

LM79-QUARTZ-2700K-CRI80-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
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 7276lm total luminous flux										



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