

LM-79

Test Report

LM79-RUBY-BRACKET-7-4000K-CRI80-MEDIUM

General Discription

Item number	RU-37-X-X-03-2-X	
Date and time	18-11-2016 16:27:57	
CCT (Kelvin)	3890 K	
Beam angle	49,4°	
Luminous flux	4040 lm	
Efficiency	97 lm/watt	
Weighted energy	41,8 kWh/1000h	
Power factor	0,95	
CRI (RA)	82,1	
Fidelity index Rf	Rf 82,3	
Gammut index Rg	Rg 97,5	
Peak	5208 cd	



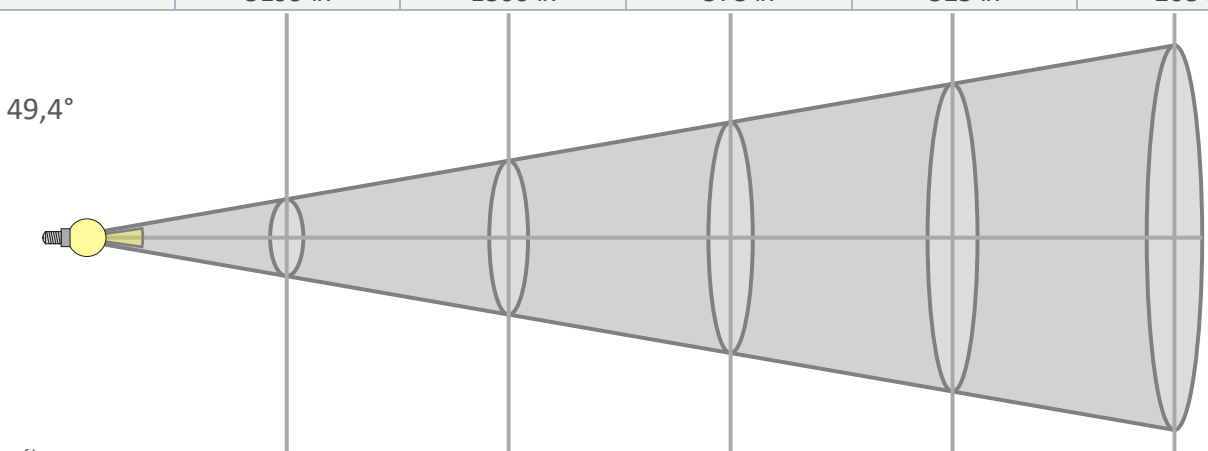
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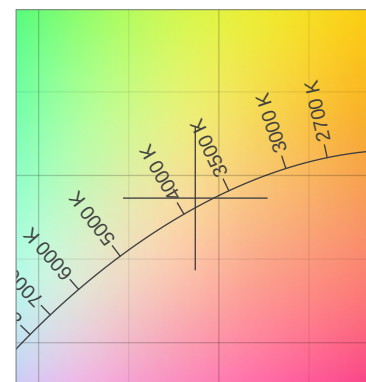
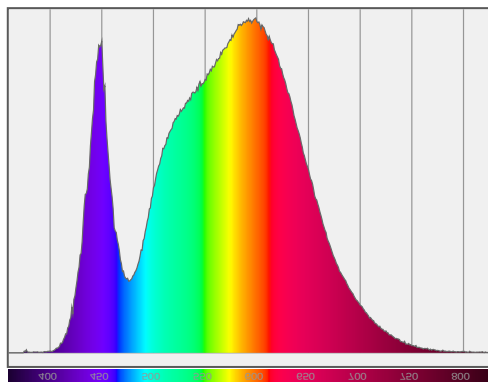
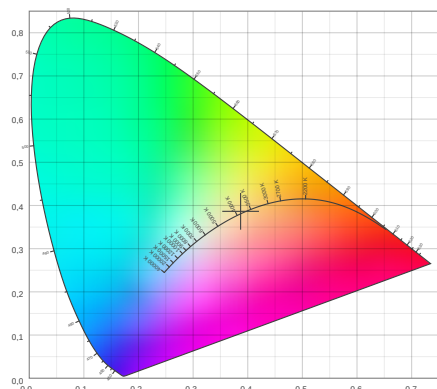
Beam details	1m	2m	3m	4m	5m														
Lux*	5199 lx	1300 lx	578 lx	325 lx	208 lx														
																			
*measured at center of beam																			
Footcandles*	483,0 fcd	120,7 fcd	53,7 fcd	30,2 fcd	19,3 fcd														
Beam width (meter)	0,9 m	1,8 m	2,8 m	3,7 m	4,6 m														
Beam width (Feet)	3 ft	6 ft	9 ft	12,1 ft	15,1 ft														
Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
5199lx	1300lx	578lx	325lx	208lx	144lx	106lx	81lx	64lx	52lx	43lx	36lx	31lx	27lx	23lx	20lx	18lx	16lx	14lx	13lx
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
483fcd	120,7fcd	53,7fcd	30,2fcd	19,3fcd	13,4fcd	9,9fcd	7,5fcd	6fcd	4,8fcd	4fcd	3,4fcd	2,9fcd	2,5fcd	2,1fcd	1,9fcd	1,7fcd	1,5fcd	1,3fcd	1,2fcd
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°
5199	5192	5203	5187	5151	5074	4828	4582	4213	3810	3418	3041	2664	2419	2176	1962	1767	1555	1261	967
100%	100%	100%	100%	99%	98%	93%	88%	81%	73%	66%	58%	51%	47%	42%	38%	34%	30%	24%	19%

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Color details



CIE 1931

x: 0,388

3890 K

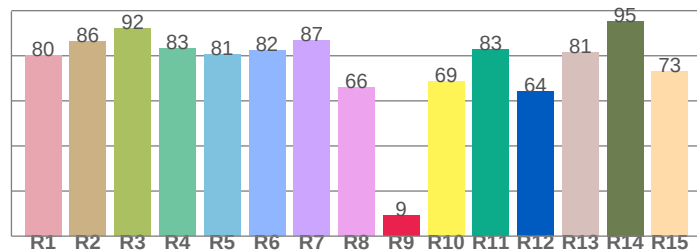
y: 0,388

Spectra

CIE 1931 ZOOM

Δuv : 0,0029

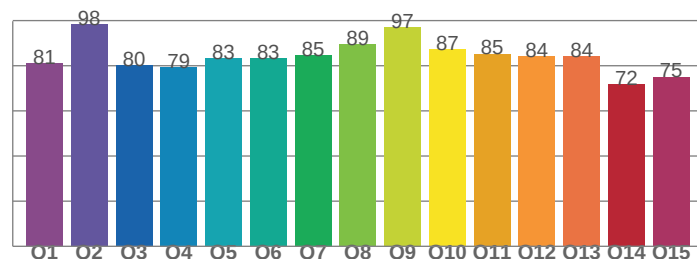
CRI: 82,1 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
80,2	86,2	92,1	83,2	80,3	82,1	86,7	65,7
R9	R10	R11	R12	R13	R14	R15	
8,5	68,3	82,7	64,0	81,2	95,5	72,8	

CQS: 82,8



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
80,8	98,2	80,2	79,5	83,2	83,1	84,6	89,4
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
97,2	87,3	85,4	84,4	84,1	71,7	74,9	

TM30:

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TM30 details

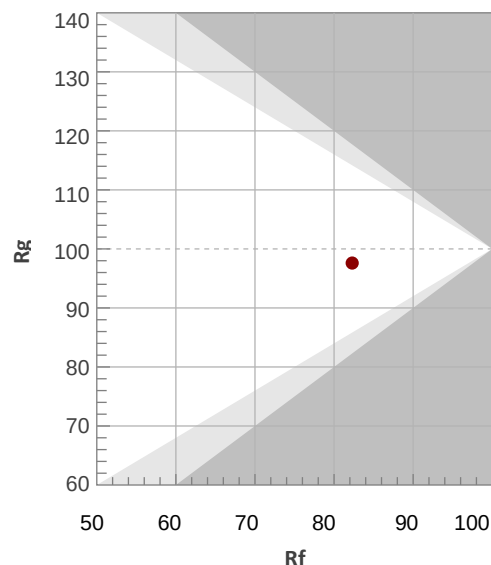
Rf 82,3

Fidelity index Rf

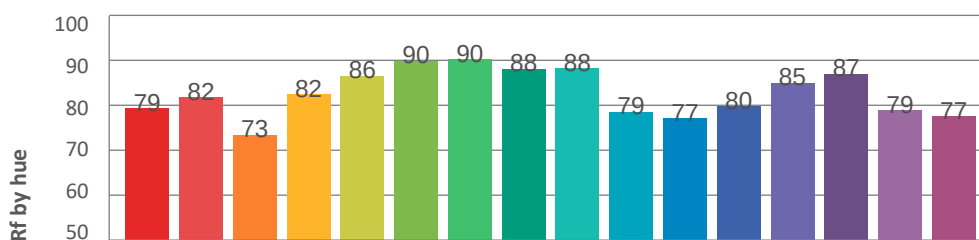
Rg 97,5

Gamut index Rg

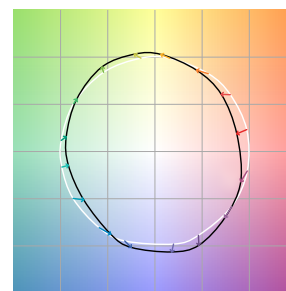
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-11%	-2%
2	82	-8%	6%
3	73	-4%	12%
4	82	2%	10%
5	87	6%	6%
6	90	6%	-2%
7	90	0%	-6%
8	88	-5%	-5%
9	88	-7%	0%
10	78	-9%	8%
11	77	-1%	14%
12	80	5%	8%
13	85	8%	-4%
14	87	9%	-6%
15	79	1%	-14%
16	77	-5%	-12%



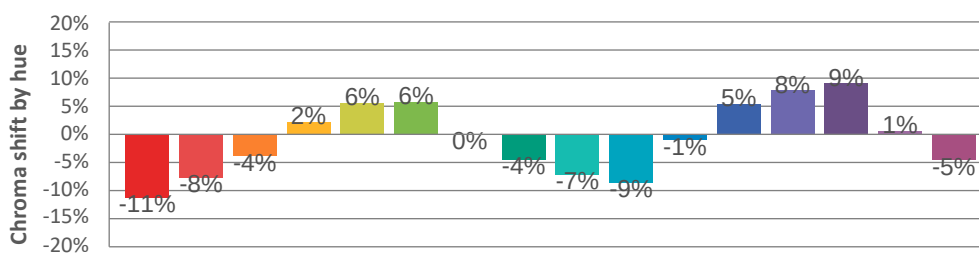
Hue binH



Color vector graphics



Hue bin



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	21,4	22,1	21,7	22,3	22,5	21,4	22,1	21,7	22,3	22,5
	3H	21,3	21,9	21,6	22,1	22,4	21,3	21,9	21,6	22,1	22,4
	4H	21,2	21,8	21,5	22,1	22,3	21,2	21,8	21,5	22,1	22,3
	6H	21,1	21,7	21,5	22,0	22,3	21,1	21,7	21,5	22,0	22,3
	8H	21,1	21,6	21,4	21,9	22,2	21,1	21,6	21,4	21,9	22,2
	12H	21,1	21,6	21,4	21,9	22,2	21,1	21,6	21,4	21,9	22,2
4H	2H	21,2	21,8	21,5	22,1	22,3	21,2	21,8	21,5	22,1	22,3
	3H	21,1	21,6	21,4	21,9	22,2	21,1	21,6	21,4	21,9	22,2
	4H	21,0	21,4	21,4	21,8	22,1	21,0	21,4	21,4	21,8	22,1
	6H	20,9	21,3	21,3	21,7	22,0	20,9	21,3	21,3	21,7	22,0
	8H	20,9	21,2	21,3	21,6	22,0	20,9	21,2	21,3	21,6	22,0
	12H	20,9	21,1	21,3	21,5	22,0	20,9	21,1	21,3	21,5	22,0
8H	4H	20,9	21,2	21,3	21,6	22,0	20,9	21,2	21,3	21,6	22,0
	6H	20,8	21,0	21,3							