

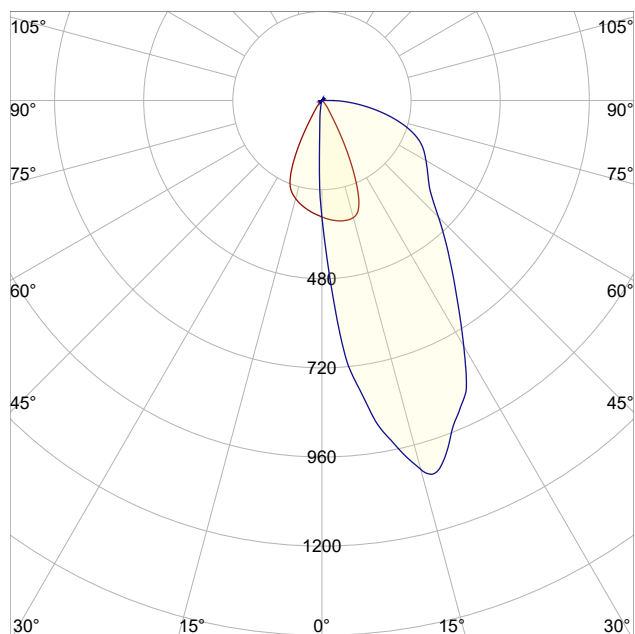
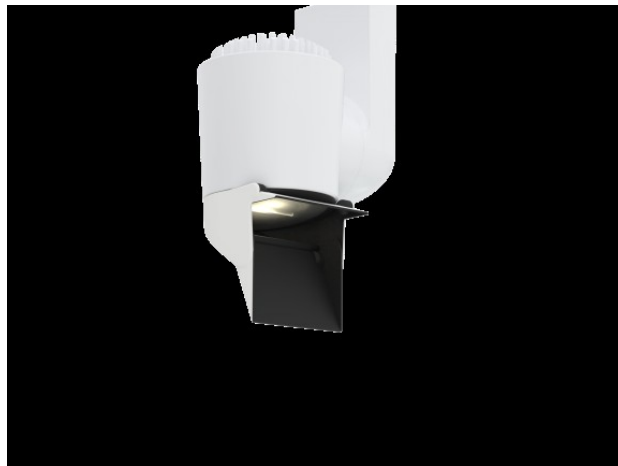
LM-79

Test Report

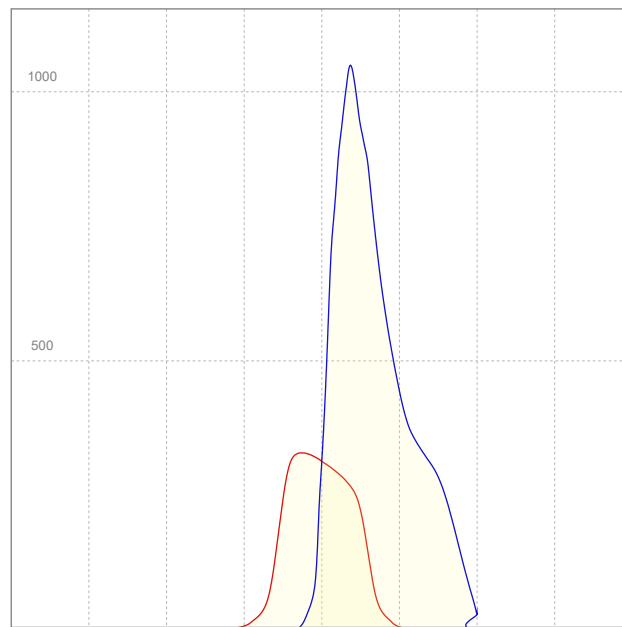
LM79-JADE-WALLWASH-3000K-CRI90

General Discription

Item number	
Date and time	16-6-2025 16:32:23
CCT (Kelvin)	2942 K
Beam angle	51,5° x 37°
Luminous flux	878 lm
Efficiency	33 lm/watt
Weighted energy	26,3 kWh/1000h
Power factor	0,97
CRI (RA)	94,2
Fidelity index Rf	Rf 91,1
Gammut index Rg	Rg 103,5
Peak	1049 cd



Polar curve



Linear distribution diagram



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Beam details	1m	2m	3m	4m	5m
Lux*	314 lx	78 lx	35 lx	20 lx	13 lx

39,9°

*measured at center of beam

Footcandles*	29,1 fcd	7,3 fcd	3,2 fcd	1,8 fcd	1,2 fcd
Beam width (meter)	0,7 m	1,5 m	2,2 m	2,9 m	3,6 m
Beam width (Feet)	2,4 ft	4,8 ft	7,1 ft	9,5 ft	11,9 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
314lx	78lx	35lx	20lx	13lx	9lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
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
29,1fcd	7,3fcd	3,2fcd	1,8fcd	1,2fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
314	318	322	325	327	329	329	328	324	313	290	253	207	158	112	75	51	37	28	22
100%	101%	103%	104%	104%	105%	105%	105%	103%	100%	93%	81%	66%	51%	36%	24%	16%	12%	9%	7%

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°
314	437	594	729	809	892	948	1003	1044	1035	993	945	912	880	826	764	706	653	607	565
100%	139%	189%	232%	258%	284%	302%	320%	333%	330%	317%	301%	291%	281%	263%	244%	225%	208%	194%	180%

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°
314	309	305	300	295	290	284	277	270	261	248	228	198	159	119	82	55	39	29	22
100%	99%	97%	96%	94%	92%	91%	88%	86%	83%	79%	73%	63%	51%	38%	26%	18%	12%	9%	7%

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°
314	193	86	52	34	18	8	2	0	0	0	0	0	0	0	0	0	0	0	0
100%	62%	27%	17%	11%	6%	3%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,9°	79,9°	97,8°	81,7%	63,5%



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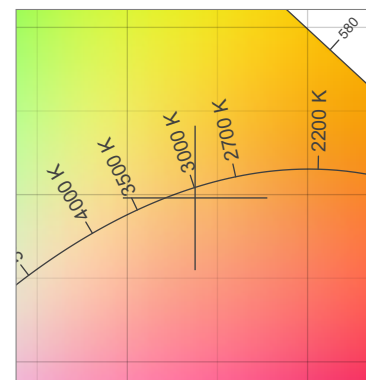
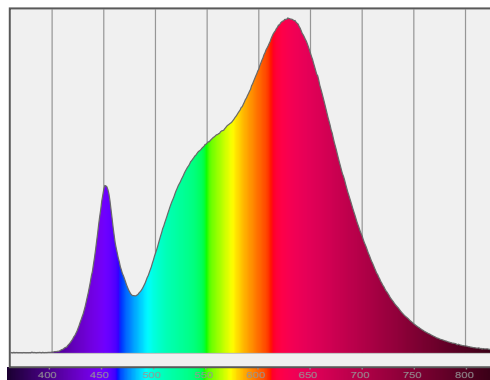
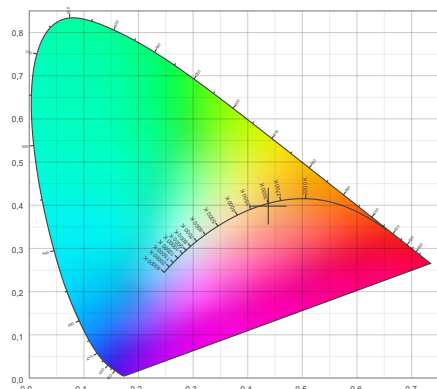
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Color details



CIE 1931

x: 0,438



Spectra

CIE 1931 ZOOM

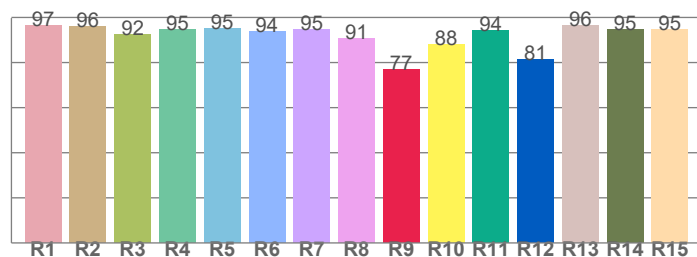
2942 K

y: 0,398

Δuv : -0,0025

CRI: 94,2 (R1-R8)

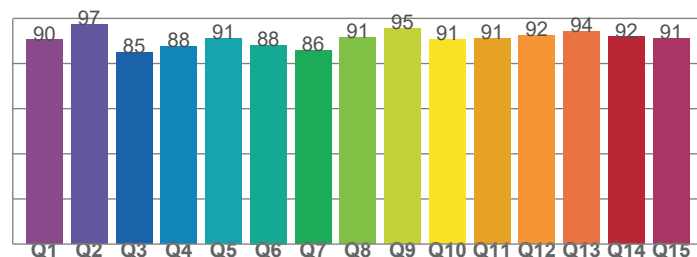
CRI values, R1-R8 are used to calculate final CRI value



R1	R2	R3	R4	R5	R6	R7	R8
96,5	95,9	92,4	94,5	95,1	93,9	94,7	90,5
R9	R10	R11	R12	R13	R14	R15	
77,0	87,9	94,3	81,4	96,4	94,5	94,7	

CQS: 90,2

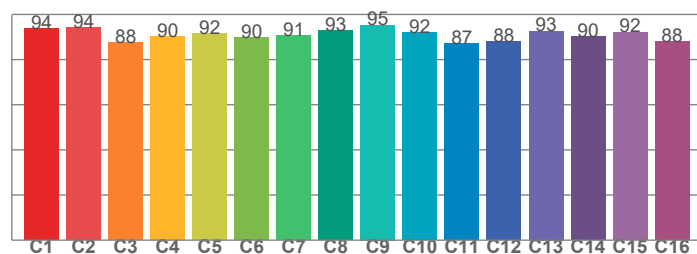
CQS values



Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
90,5	97,3	84,9	87,5	91,1	88,2	85,7	91,4
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,5	90,7	91,2	92,5	94,1	91,8	91,0	

TM30: 91,1

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



C1	C2	C3	C4	C5	C6	C7	C8
93,8	94,2	87,6	90,1	91,5	89,8	90,7	92,8
C9	C10	C11	C12	C13	C14	C15	
95,3	92,0	87,1	88,1	92,6	90,2	92,1	

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
2942 K	94,2	77,0	91,1	103,5	90,2	0,438	0,398	0,254	0,346	-0,0025



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Test Report

LM79-JADE-WALLWASH-3000K-CRI90

TM30 details

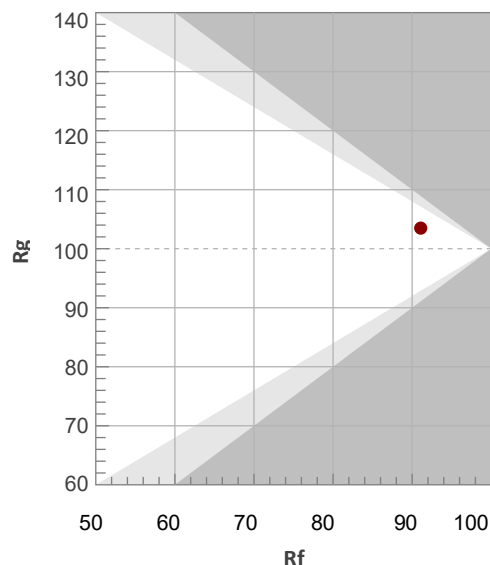
Rf 91,1

Fidelity index Rf

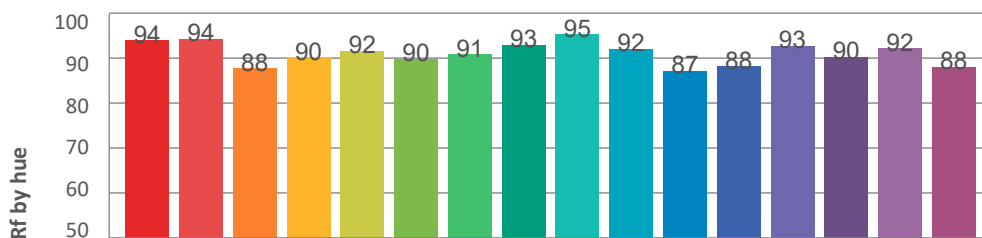
Rg 103,5

Gamut index Rg

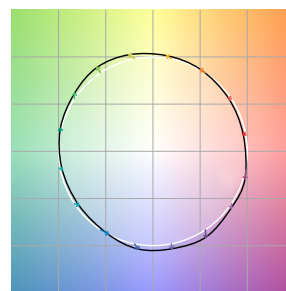
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-3%	-1%
2	94	-2%	2%
3	88	0%	6%
4	90	2%	5%
5	92	5%	5%
6	90	7%	0%
7	91	3%	-5%
8	93	1%	-5%
9	95	-2%	-1%
10	92	-3%	4%
11	87	-1%	9%
12	88	5%	5%
13	93	5%	0%
14	90	7%	-4%
15	92	2%	-4%
16	88	1%	-10%



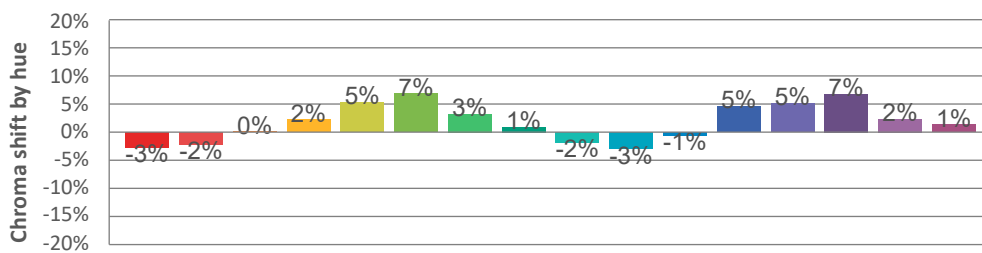
Hue binH



Color vector graphics



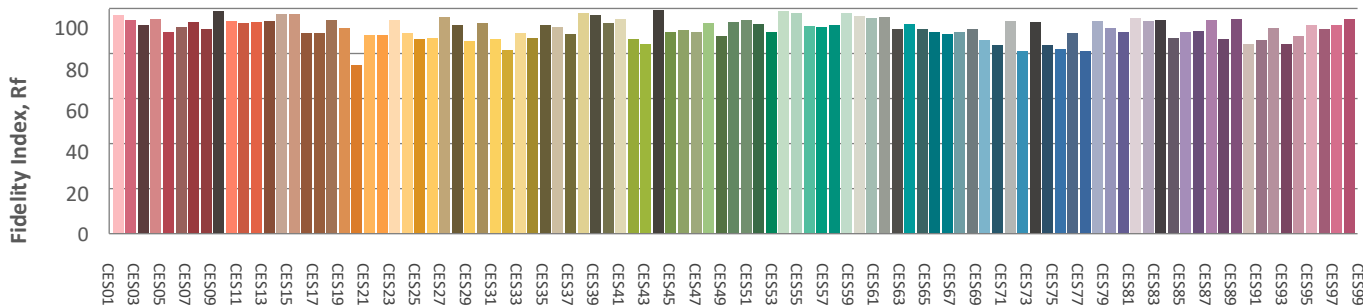
Hue bin



Color distortion graphics



Color Evaluation Sample



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LM79-JADE-WALLWASH-3000K-CRI90

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 878lm total luminous flux										



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