

LM-79

Test Report

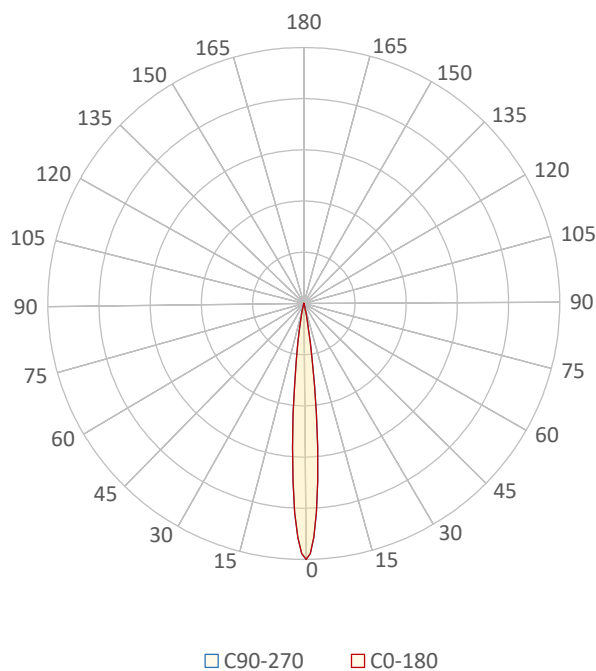
LM79-JADE-ZOOM-TW-2700K-6500K-THRIVE-SPOT [2700K]

General Description

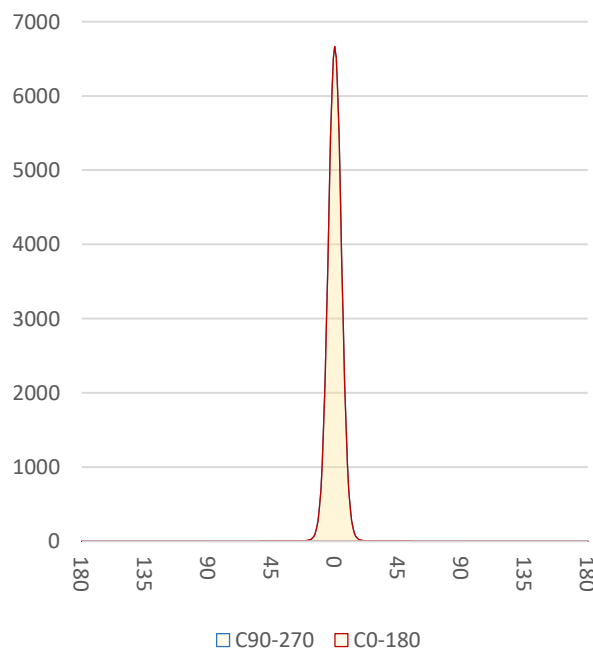
Item number	
Date and time	21-9-2021 14:52:23
CCT (Kelvin)	2725 K
Beam angle	11°
Luminous flux	289 lm
Efficiency	17 lm/watt
Weighted energy	16,7 kWh/1000h
Power factor	0,55
CRI (RA)	98,0
Fidelity index Rf	Rf 97,4
Gammut index Rg	Rg 100,8
Peak	6666 cd



Polar diagram



Cartesian diagram



CLS LED BV
info@cls-led.com
www.cls-led.com

2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. No part of this document may be reproduced, in any form or by any means, without permission in writing from CLS-LED BV. Other legal information can be found in our General conditions, found on the back of your CLS-LED BV invoice, inside the CLS catalogue or on our website www.cls-led.com/voorwaarden.pdf

LM-79

Test Report

LM79-JADE-ZOOM-TW-2700K-6500K-THRIVE-SPOT [2700K]

Beam details	1m	2m	3m	4m	5m																			
Lux*	6666 lx	1667 lx	741 lx	417 lx	267 lx																			
*measured at center of beam																								
Footcandles*	619,3 fcd	154,8 fcd	68,8 fcd	38,7 fcd	24,8 fcd																			
Beam width (meter)	0,2 m	0,4 m	0,6 m	0,8 m	1 m																			
Beam width (Feet)	0,6 ft	1,3 ft	1,9 ft	2,5 ft	3,1 ft																			
Beam intensities																								
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m					
6666lx	1667lx	741lx	417lx	267lx	185lx	136lx	104lx	82lx	67lx	55lx	46lx	39lx	34lx	30lx	26lx	23lx	21lx	18lx	17lx					
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					
619,3fcd	154,8fcd	68,8fcd	38,7fcd	24,8fcd	17,2fcd	12,6fcd	9,7fcd	7,6fcd	6,2fcd	5,1fcd	4,3fcd	3,7fcd	3,2fcd	2,8fcd	2,4fcd	2,1fcd	1,9fcd	1,7fcd	1,5fcd					
Intensities in 0° c-plane																								
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°					
6666	6521	6104	5450	4638	3756	2895	2134	1509	1028	677	434	272	167	101	62	40	27	19	14					
100%	98%	92%	82%	70%	56%	43%	32%	23%	15%	10%	7%	4%	3%	2%	1%	1%	0%	0%	0%					
Intensities in 90° c-plane																								
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°					
6666	6521	6104	5450	4638	3756	2895	2134	1509	1028	677	434	272	167	101	62	40	27	19	14					
100%	98%	92%	82%	70%	56%	43%	32%	23%	15%	10%	7%	4%	3%	2%	1%	1%	0%	0%	0%					
Intensities in 180° c-plane																								
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°					
6666	6521	6104	5450	4638	3756	2895	2134	1509	1028	677	434	272	167	101	62	40	27	19	14					
100%	98%	92%	82%	70%	56%	43%	32%	23%	15%	10%	7%	4%	3%	2%	1%	1%	0%	0%	0%					
Intensities in 270° c-plane																								
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°					
6666	6521	6104	5450	4638	3756	2895	2134	1509	1028	677	434	272	167	101	62	40	27	19	14					
100%	98%	92%	82%	70%	56%	43%	32%	23%	15%	10%	7%	4%	3%	2%	1%	1%	0%	0%	0%					
Beam angle 50%					Field angle 10%					Cutoff angle 2,5%					Intensity ratio in 120° cone					Intensity ratio in 90° cone				
11°					20,1°					26°					99,5%					98,8%				



CLS LED BV
info@cls-led.com
www.cls-led.com

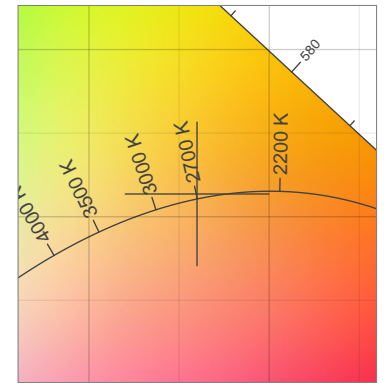
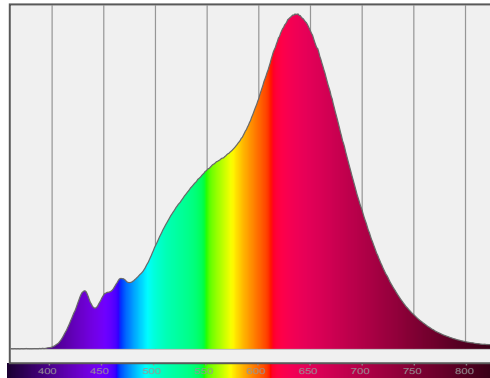
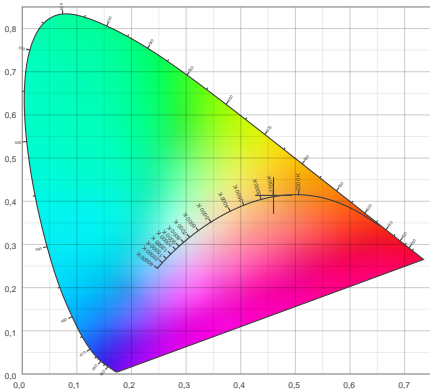
2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. No part of this document may be reproduced, in any form or by any means, without permission in writing from CLS-LED BV. Other legal information can be found in our General conditions, found on the back of your CLS-LED BV invoice, inside the CLS catalogue or on our website www.cls-led.com/voorwaarden.pdf

LM-79

Test Report

LM79-JADE-ZOOM-TW-2700K-6500K-THRIVE-SPOT [2700K]

Color details



CIE 1931

x: 0,460



Spectra

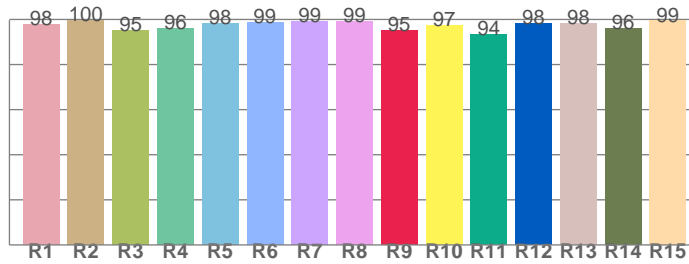
CIE 1931 ZOOM

2725 K

y: 0,414

Δuv : 0,0011

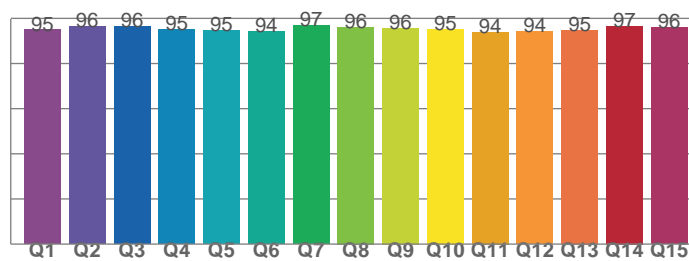
CRI: 98,0 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
98,0	99,7	95,0	95,9	98,2	98,9	99,3	99,0
R9	R10	R11	R12	R13	R14	R15	
95,3	97,5	93,6	98,1	98,4	96,0	99,4	

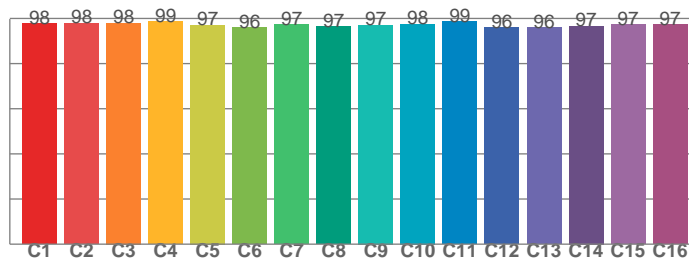
CQS: 95,2



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
94,9	96,3	96,3	95,2	94,6	94,2	96,8	96,2
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
95,7	95,3	93,9	94,2	94,9	96,6	96,0	

TM30: 97,4



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

C1	C2	C3	C4	C5	C6	C7	C8
97,7	97,9	98,1	98,6	97,2	96,1	97,3	96,5
C9	C10	C11	C12	C13	C14	C15	
97,0	97,5	98,6	95,9	96,0	96,6	97,4	

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
2725 K	98,0	95,3	97,4	100,8	95,2	0,460	0,414	0,261	0,352	0,0011



CLS LED BV
info@cls-led.com
www.cls-led.com

2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. No part of this document may be reproduced, in any form or by any means, without permission in writing from CLS-LED BV. Other legal information can be found in our General conditions, found on the back of your CLS-LED BV invoice, inside the CLS catalogue or on our website www.cls-led.com/voorwaarden.pdf

LM-79

Test Report

LM79-JADE-ZOOM-TW-2700K-6500K-THRIVE-SPOT [2700K]

TM30 details

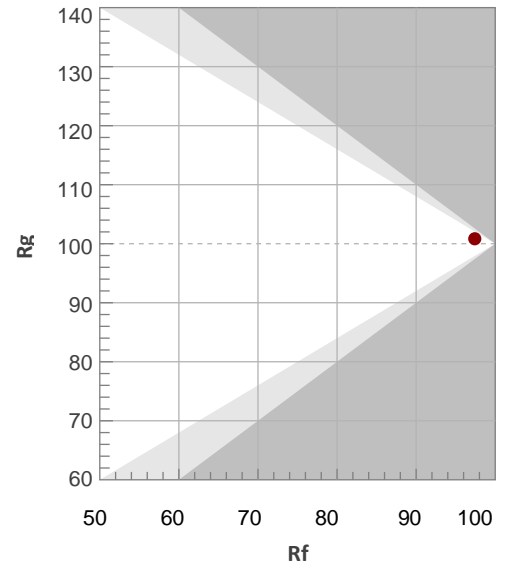
Rf 97,4

Fidelity index Rf

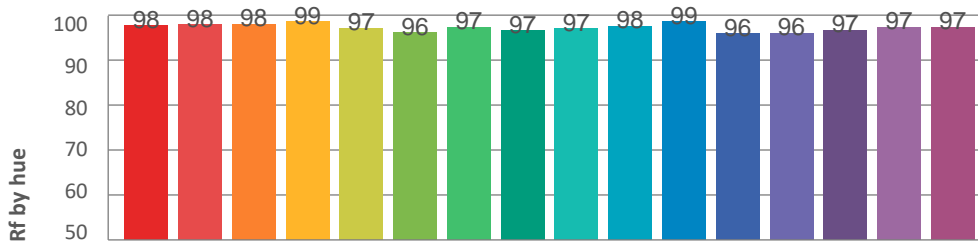
Rg 100,8

Gammut index Rg

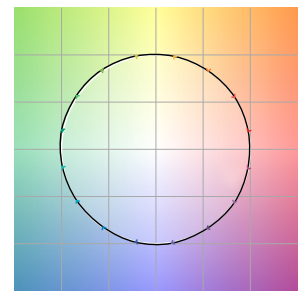
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	98	0%	-1%
2	98	0%	0%
3	98	0%	0%
4	99	0%	1%
5	97	1%	2%
6	96	2%	2%
7	97	2%	0%
8	97	2%	-1%
9	97	1%	-2%
10	98	0%	-2%
11	99	-1%	-1%
12	96	1%	-2%
13	96	1%	-3%
14	97	0%	-2%
15	97	0%	-1%
16	97	-1%	-1%



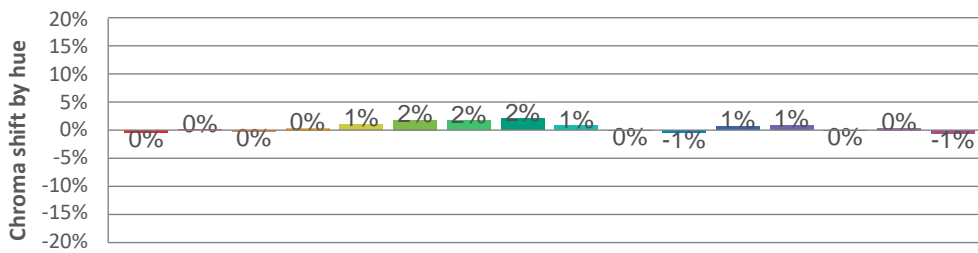
Hue binH



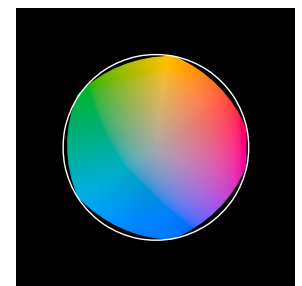
Color vector graphics



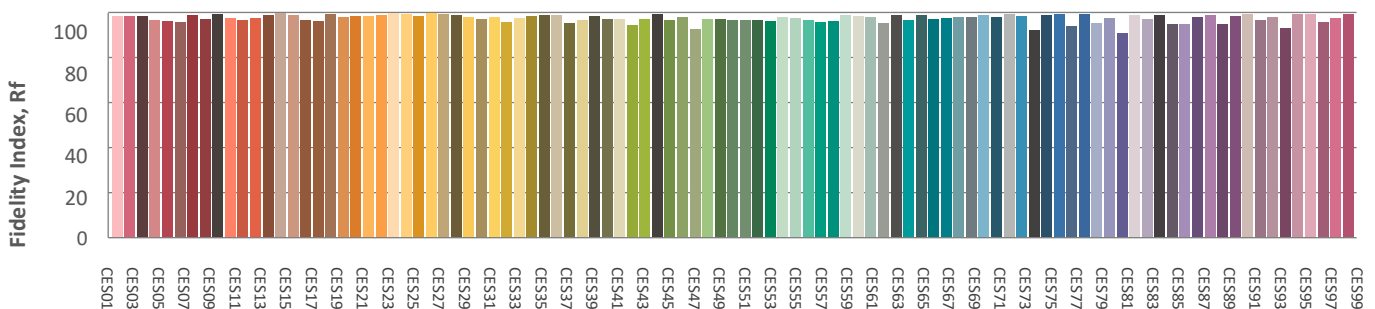
Hue bin



Color distortion graphics



Color Evaluation Sample



CLS LED BV
info@cls-led.com
www.cls-led.com

2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. No part of this document may be reproduced, in any form or by any means, without permission in writing from CLS-LED BV. Other legal information can be found in our General conditions, found on the back of your CLS-LED BV invoice, inside the CLS catalogue or on our website www.cls-led.com/voorwaarden.pdf

LM-79

Test Report

LM79-JADE-ZOOM-TW-2700K-6500K-THRIVE-SPOT [2700K]

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	-2,0	-1,8	-2,0	-1,6	-1,4	-2,0	-1,8	-2,0	-1,6	-1,4
	3H	-1,5	-1,1	-1,1	-0,9	-0,7	-1,5	-1,1	-1,1	-0,9	-0,7
	4H	-1,2	-0,8	-0,8	-0,6	-0,3	-1,2	-0,8	-0,8	-0,6	-0,3
	6H	-0,4	-0,1	-0,1	0,3	0,6	-0,4	-0,1	-0,1	0,3	0,6
	8H	0,0	0,3	0,3	0,7	1,0	0,0	0,3	0,3	0,7	1,0
	12H	0,5	0,9	0,9	1,2	1,6	0,5	0,9	0,9	1,2	1,6
4H	2H	-1,9	-1,4	-1,5	-1,2	-1,0	-1,9	-1,4	-1,5	-1,2	-1,0
	3H	-1,0	-0,7	-0,6	-0,3	0,1	-1,0	-0,7	-0,6	-0,3	0,1
	4H	-0,6	-0,3	-0,2	0,2	0,7	-0,6	-0,3	-0,2	0,2	0,7
	6H	0,4	0,8	0,9	1,1	1,5	0,4	0,8	0,9	1,1	1,5
	8H	1,0	1,3	1,5	1,7	2,0	1,0	1,3	1,5	1,7	2,0
	12H	1,6	1,9	2,1	2,3	2,8	1,6	1,9	2,1	2,3	2,8
8H	4H	-0,3	0,0	0,2	0,4	0,7	-0,3	0,0	0,2	0,4	0,7
	6H	1,0	1,2	1,5	1,7	2,2	1,0	1,2	1,5	1,7	2,2
	8H	1,8	1,9	2,3	2,4	3,1	1,8	1,9	2,3	2,4	3,1
	12H	2,7	2,8	3,3	3,3	3,9	2,7	2,8	3,3	3,3	3,9
12H	4H	-0,3	0,0	0,2	0,4	0,8	-0,3	0,0	0,2	0,4	0,8
	6H	1,2	1,4	1,7	1,9	2,5	1,2	1,4	1,7	1,9	2,5
	8H	2,0	2,1	2,6	2,7	3,2	2,0	2,1	2,6	2,7	3,2

Variation of the observer position for the luminaire distance S

S = 1.0H	0,2 / -0,1	0,2 / -0,1
S = 1.5H	0,4 / -0,3	0,4 / -0,3
S = 2.0H	0,7 / -0,6	0,7 / -0,6
Standard table	n/a	n/a
Correction summand	n/a	n/a

Corrected glare indices referring to 289lm total luminous flux



CLS LED BV
info@cls-led.com
www.cls-led.com

2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document. No part of this document may be reproduced, in any form or by any means, without permission in writing from CLS-LED BV. Other legal information can be found in our General conditions, found on the back of your CLS-LED BV invoice, inside the CLS catalogue or on our website www.cls-led.com/voorwaarden.pdf