

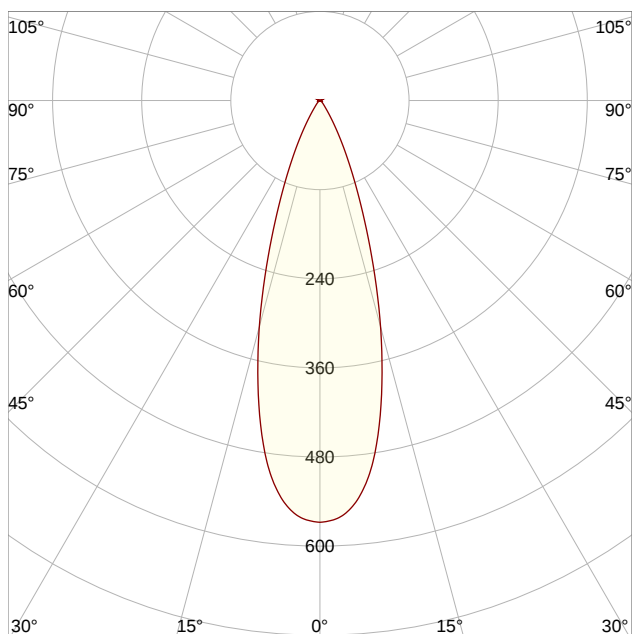
LM-79

Test Report

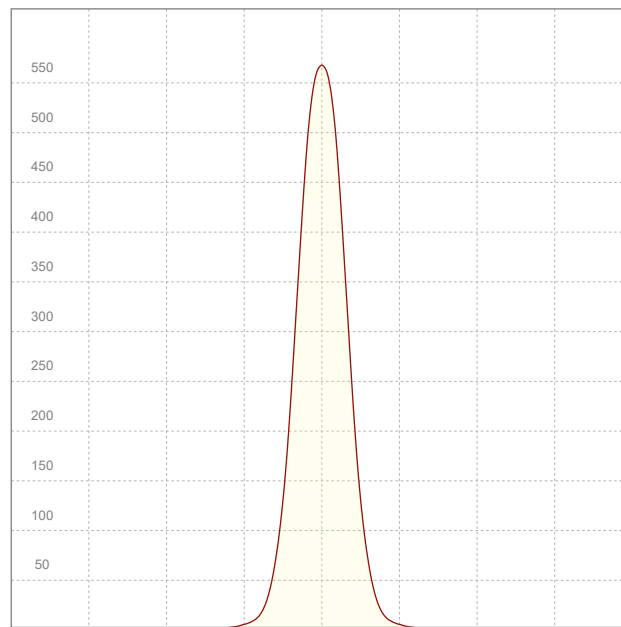
LM79-TOPAZ-COLOURFLOW-RGB4-WIDE [RED]

General Discription

Item number	T-C-XCX-1C-N470-W
Date and time	8-12-2025 14:10:26
CCT (Kelvin)	0 K
Beam angle	32,2°
Luminous flux	199 lm
Efficiency	18 lm/watt
Weighted energy	10,7 kWh/1000h
Power factor	0,47
CRI (RA)	0,0
Fidelity index Rf	Rf 0,0
Gammut index Rg	Rg 0,0
Peak	568 cd



Polar curve



Linear distribution 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-TOPAZ-COLOURFLOW-RGB4-WIDE [RED]

Beam details	1m	2m	3m	4m	5m
Lux*	568 lx	142 lx	63 lx	35 lx	23 lx

32,2°

*measured at center of beam

Footcandles*	52,7 fcd	13,2 fcd	5,9 fcd	3,3 fcd	2,1 fcd
Beam width (meter)	0,6 m	1,2 m	1,7 m	2,3 m	2,9 m
Beam width (Feet)	1,9 ft	3,8 ft	5,7 ft	7,6 ft	9,5 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
568lx	142lx	63lx	35lx	23lx	16lx	12lx	9lx	7lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx	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
52,7fcd	13,2fcd	5,9fcd	3,3fcd	2,1fcd	1,5fcd	1,1fcd	0,8fcd	0,7fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	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°
568	564	553	531	498	453	400	344	287	231	181	140	106	80	58	42	29	21	15	11
100%	99%	97%	94%	88%	80%	70%	61%	50%	41%	32%	25%	19%	14%	10%	7%	5%	4%	3%	2%

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°
568	564	553	531	498	453	400	344	287	231	181	140	106	80	58	42	29	21	15	11
100%	99%	97%	94%	88%	80%	70%	61%	50%	41%	32%	25%	19%	14%	10%	7%	5%	4%	3%	2%

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°
568	564	553	531	498	453	400	344	287	231	181	140	106	80	58	42	29	21	15	11
100%	99%	97%	94%	88%	80%	70%	61%	50%	41%	32%	25%	19%	14%	10%	7%	5%	4%	3%	2%

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°
568	564	553	531	498	453	400	344	287	231	181	140	106	80	58	42	29	21	15	11
100%	99%	97%	94%	88%	80%	70%	61%	50%	41%	32%	25%	19%	14%	10%	7%	5%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,2°	56,3°	72,7°	98,9%	97,0%



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

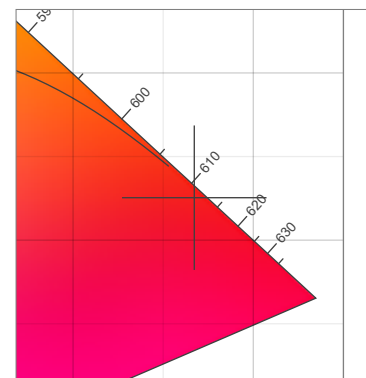
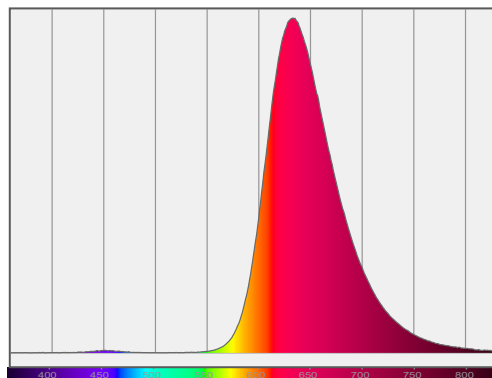
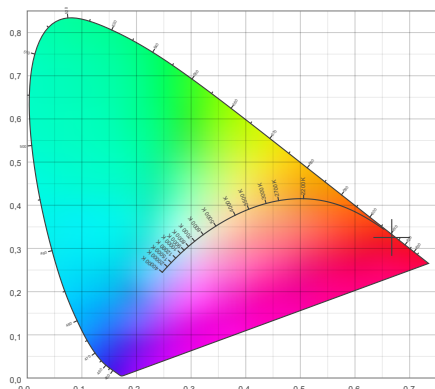
2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information 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-TOPAZ-COLOURFLOW-RGB4-WIDE [RED]

Color details



CIE 1931

x: 0,667



Spectra

CIE 1931 ZOOM

0 K

y: 0,325

 Δuv : n/a

CRI: 0,0 (R1-R8)

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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15

R1	R2	R3	R4	R5	R6	R7	R8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
R9	R10	R11	R12	R13	R14	R15	
0,0	0,0	0,0	0,0	0,0	0,0	0,0	

CQS: 0,0

CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
0,0	0,0	0,0	0,0	0,0	0,0	0,0	

TM30: 0,0

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15

C1	C2	C3	C4	C5	C6	C7	C8
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
C9	C10	C11	C12	C13	C14	C15	
0,0	0,0	0,0	0,0	0,0	0,0	0,0	

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
0 K	0,0	0,0	0,0	0,0	0,0	0,667	0,325	0,479	0,350	n/a



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

TM30 details

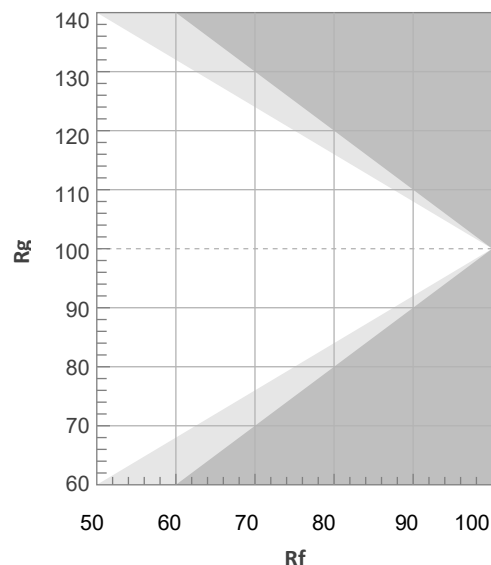
Rf 0,0

Fidelity index Rf

Rg 0,0

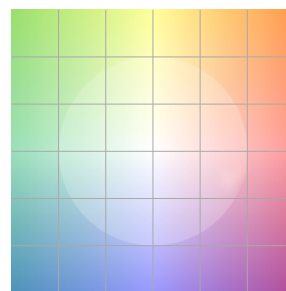
Gammut index Rg

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



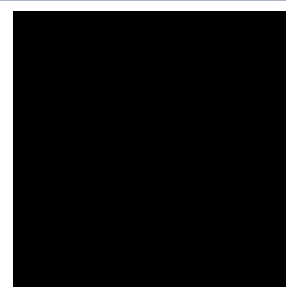
Hue binH

Color vector graphics

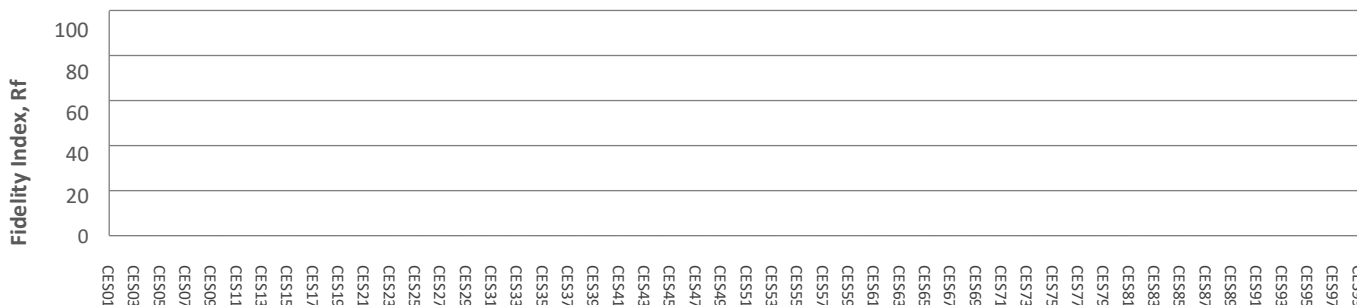


Hue bin

Color distortion graphics



Color Evaluation Sample



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	4,8	5,3	4,9	5,5	5,7	4,8	5,3	4,9	5,5	5,7
	3H	4,6	5,3	5,0	5,5	5,6	4,6	5,3	5,0	5,5	5,6
	4H	4,6	5,3	5,0	5,5	5,7	4,6	5,3	5,0	5,5	5,7
	6H	4,7	5,2	5,0	5,5	5,9	4,7	5,2	5,0	5,5	5,9
	8H	4,7	5,2	5,0	5,5	5,9	4,7	5,2	5,0	5,5	5,9
	12H	4,6	5,1	5,0	5,5	5,9	4,6	5,1	5,0	5,5	5,9
4H	2H	4,5	5,1	4,9	5,3	5,6	4,5	5,1	4,9	5,3	5,6
	3H	4,6	5,1	5,0	5,5	5,9	4,6	5,1	5,0	5,5	5,9
	4H	4,6	5,0	5,0	5,5	6,0	4,6	5,0	5,0	5,5	6,0
	6H	4,6	5,1	5,1	5,5	5,8	4,6	5,1	5,1	5,5	5,8
	8H	4,6	5,1	5,1	5,4	5,8	4,6	5,1	5,1	5,4	5,8
	12H	4,6	4,9	5,1	5,3	5,8	4,6	4,9	5,1	5,3	5,8
8H	4H	4,5	5,0	5,0	5,3	5,7	4,5	5,0	5,0	5,3	5,7
	6H	4,6	4,9	5,1	5,4	5,9	4,6	4,9	5,1	5,4	5,9
	8H	4,7	4,9	5,2	5,4	6,0	4,7	4,9	5,2	5,4	6,0
	12H	4,7	4,9	5,3	5,4	6,0	4,7	4,9	5,3	5,4	6,0
12H	4H	4,5	4,8	5,0	5,2	5,7	4,5	4,8	5,0	5,2	5,7
	6H	4,7	4,9	5,2	5,4	6,0	4,7	4,9	5,2	5,4	6,0
	8H	4,6	4,8	5,2	5,3	5,9	4,6	4,8	5,2	5,3	5,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		4,3 / -3,6					4,3 / -3,6				
S = 1.5H		6,8 / -4,6					6,8 / -4,6				
S = 2.0H		8,7 / -5,4					8,7 / -5,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 199lm total luminous flux											