

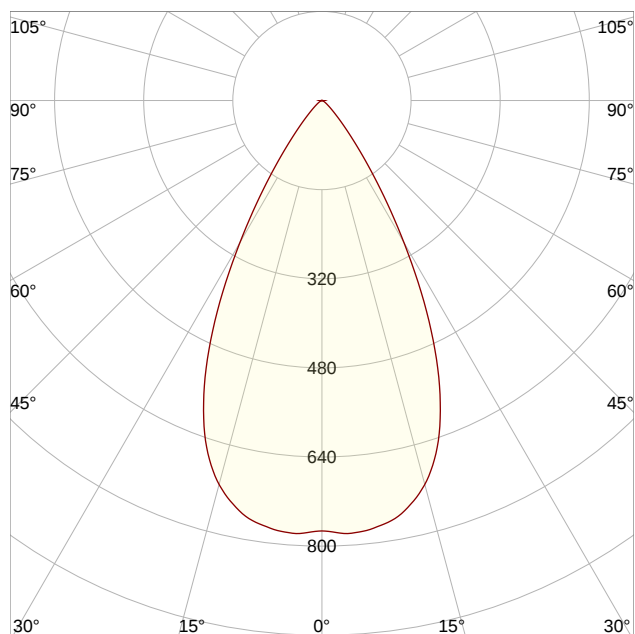
LM-79

Test Report

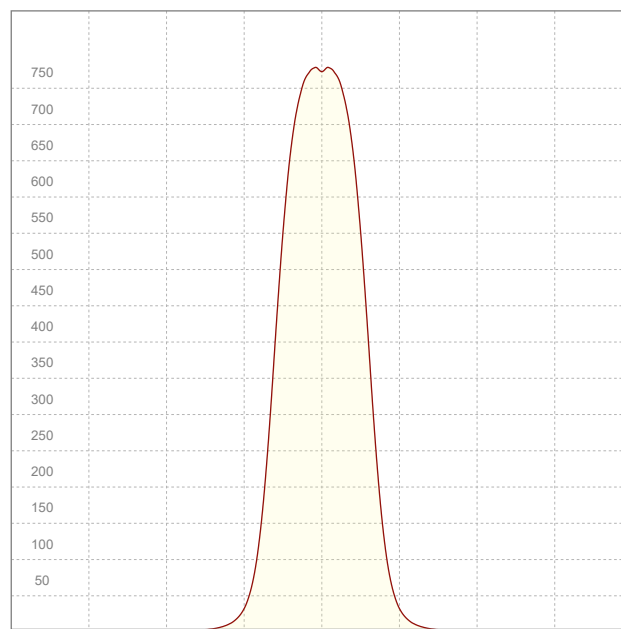
LM79-TOPAZ-COLOURFLOW-RGB3-FLOOD [ALL]

General Discription

Item number	T-C-XCX-1C-N370-F
Date and time	8-12-2025 17:07:34
CCT (Kelvin)	14676 K
Beam angle	54,6°
Luminous flux	625 lm
Efficiency	49 lm/watt
Weighted energy	12,9 kWh/1000h
Power factor	0,46
CRI (RA)	70,3
Fidelity index Rf	Rf 76,2
Gammut index Rg	Rg 116,4
Peak	779 cd



Polar curve



Linear distribution diagram



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

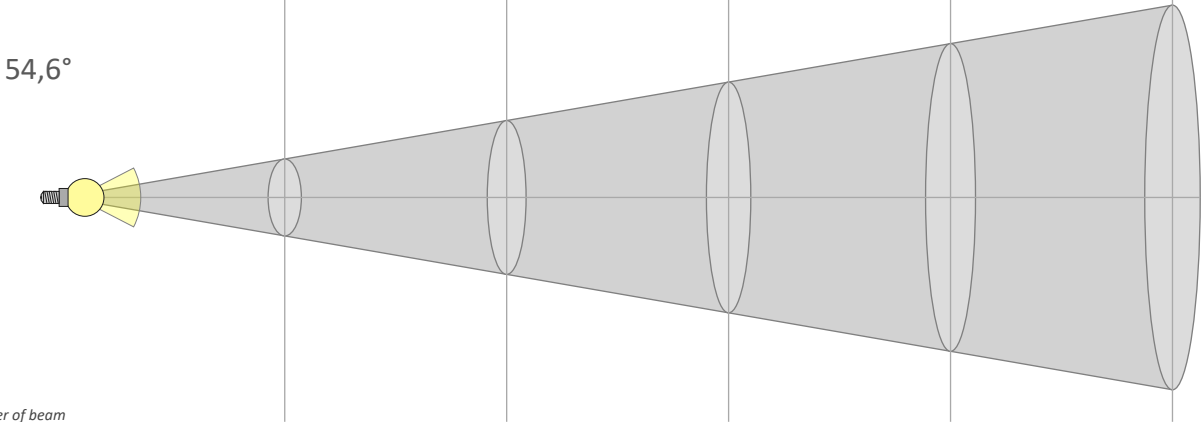
2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information 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-RGB3-FLOOD [ALL]

Beam details	1m	2m	3m	4m	5m
Lux*	773 lx	193 lx	86 lx	48 lx	31 lx



54,6°

*measured at center of beam

Footcandles*	71,8 fcd	18,0 fcd	8,0 fcd	4,5 fcd	2,9 fcd
Beam width (meter)	1 m	2,1 m	3,1 m	4,1 m	5,2 m
Beam width (Feet)	3,4 ft	6,8 ft	10,2 ft	13,6 ft	16,9 ft

Beam intensities																			
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
773lx	193lx	86lx	48lx	31lx	21lx	16lx	12lx	10lx	8lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx
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
71,8fcd	18fcd	8fcd	4,5fcd	2,9fcd	2fcd	1,5fcd	1,1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd

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°
773	776	778	776	770	761	746	726	699	664	619	565	504	436	365	295	231	176	131	96
100%	100%	101%	100%	100%	98%	96%	94%	90%	86%	80%	73%	65%	56%	47%	38%	30%	23%	17%	12%

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°
773	776	778	776	770	761	746	726	699	664	619	565	504	436	365	295	231	176	131	96
100%	100%	101%	100%	100%	98%	96%	94%	90%	86%	80%	73%	65%	56%	47%	38%	30%	23%	17%	12%

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°
773	776	778	776	770	761	746	726	699	664	619	565	504	436	365	295	231	176	131	96
100%	100%	101%	100%	100%	98%	96%	94%	90%	86%	80%	73%	65%	56%	47%	38%	30%	23%	17%	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°
773	776	778	776	770	761	746	726	699	664	619	565	504	436	365	295	231	176	131	96
100%	100%	101%	100%	100%	98%	96%	94%	90%	86%	80%	73%	65%	56%	47%	38%	30%	23%	17%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,6°	78,6°	97,7°	98,9%	95,9%



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

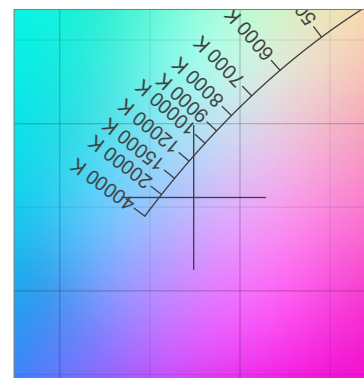
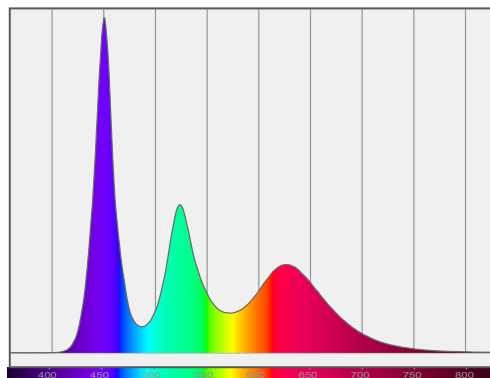
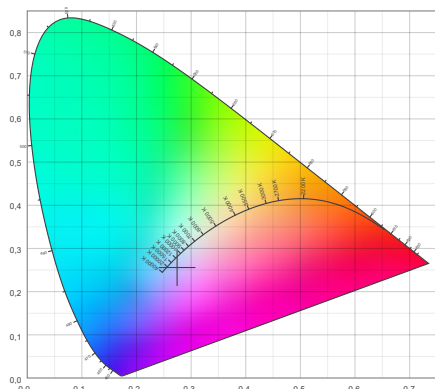
2021 CLS-LED BV. All rights reserved. Information subject to change without notice, CLS-LED BV and all affiliated companies disclaim liability for injury, damage direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information 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-RGB3-FLOOD [ALL]

Color details



CIE 1931

x: 0,274



Spectra

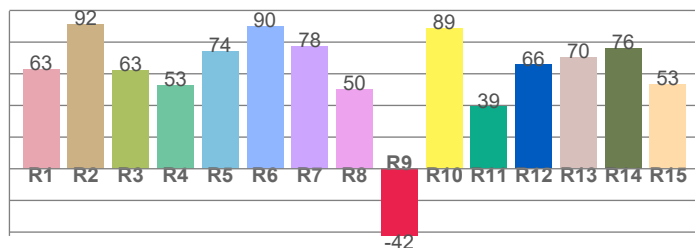
CIE 1931 ZOOM

14676 K

y: 0,256

Δuv : -0,0137

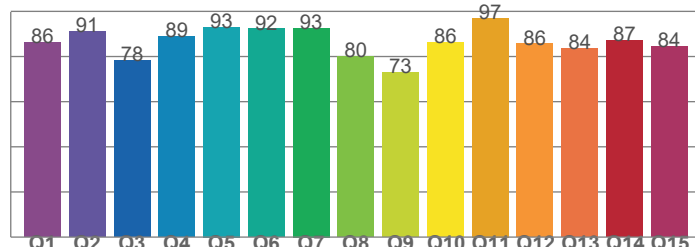
CRI: 70,3 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8
62,9	91,6	62,5	52,8	74,5	90,1	77,6	50,2
R9	R10	R11	R12	R13	R14	R15	
-42,4	88,9	39,2	65,7	70,4	76,2	53,2	

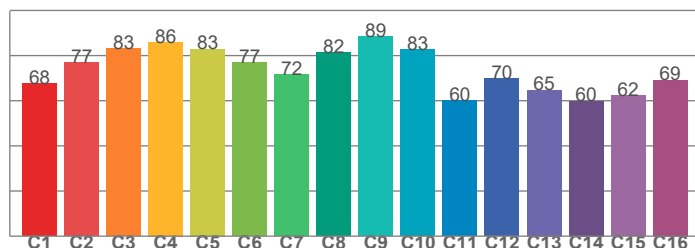
CQS: 85,3



CQS values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
86,2	91,2	78,4	89,0	93,1	92,3	92,7	80,1
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
72,9	86,3	97,0	85,7	83,7	87,0	84,4	

TM30: 76,2



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

C1	C2	C3	C4	C5	C6	C7	C8
67,6	77,0	83,3	86,0	82,9	77,0	71,7	81,5
C9	C10	C11	C12	C13	C14	C15	
88,5	82,8	60,1	70,0	64,8	59,9	62,4	

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
14676 K	70,3	-42,4	76,2	116,4	85,3	0,274	0,256	0,199	0,278	-0,0137



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-RGB3-FLOOD [ALL]

TM30 details

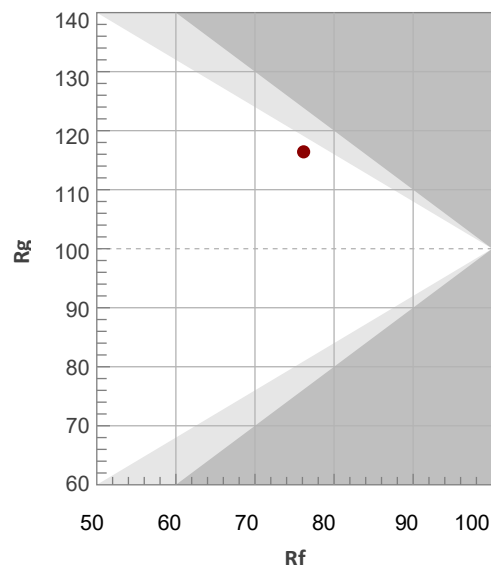
Rf 76,2

Fidelity index Rf

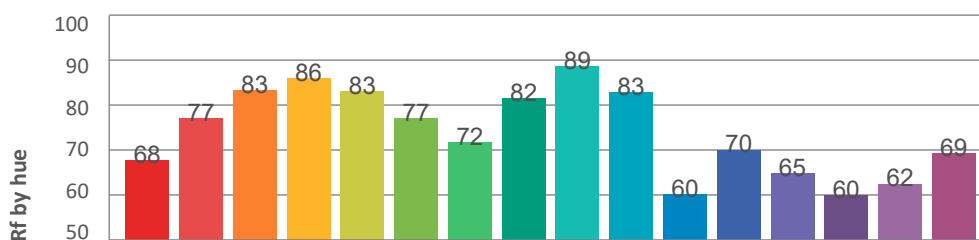
Rg 116,4

Gamut index Rg

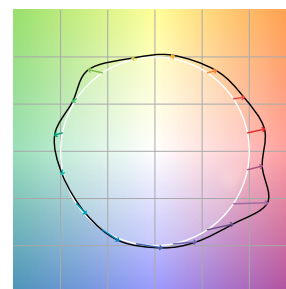
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	68	18%	0%
2	77	10%	-5%
3	83	7%	-6%
4	86	3%	2%
5	83	1%	4%
6	77	11%	11%
7	72	2%	5%
8	82	8%	4%
9	89	1%	5%
10	83	-2%	14%
11	60	0%	21%
12	70	-1%	27%
13	65	3%	24%
14	60	10%	26%
15	62	29%	21%
16	69	15%	7%



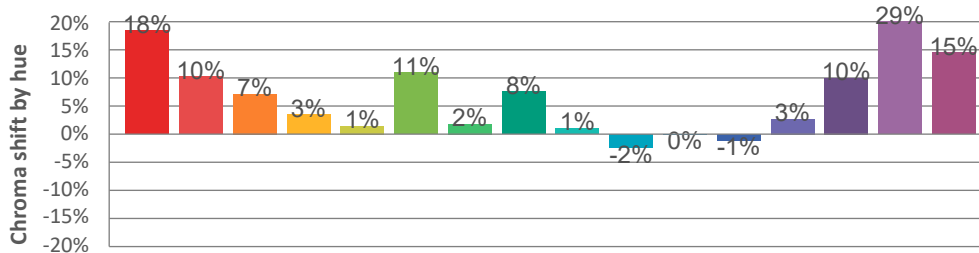
Hue binH



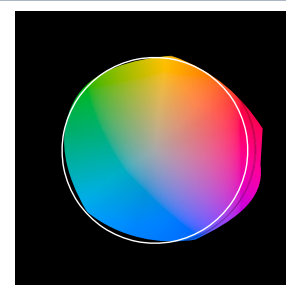
Color vector graphics



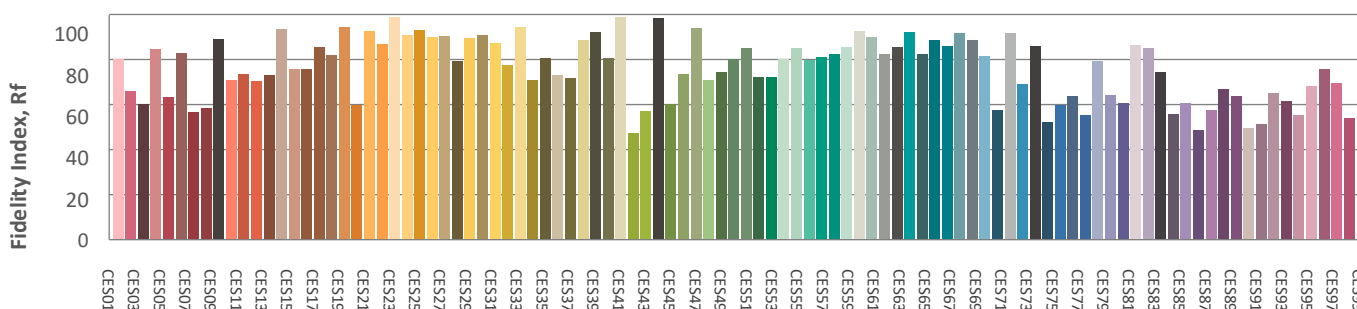
Hue bin



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-TOPAZ-COLOURFLOW-RGB3-FLOOD [ALL]

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	14,6	15,2	14,7	15,5	15,6	14,6	15,2	14,7	15,5	15,6
	3H	14,3	15,1	14,7	15,3	15,5	14,3	15,1	14,7	15,3	15,5
	4H	14,3	15,0	14,7	15,2	15,5	14,3	15,0	14,7	15,2	15,5
	6H	14,3	14,9	14,6	15,2	15,5	14,3	14,9	14,6	15,2	15,5
	8H	14,2	14,8	14,6	15,1	15,5	14,2	14,8	14,6	15,1	15,5
	12H	14,2	14,8	14,5	15,1	15,5	14,2	14,8	14,5	15,1	15,5
4H	2H	14,3	15,0	14,7	15,2	15,4	14,3	15,0	14,7	15,2	15,4
	3H	14,2	14,8	14,5	15,1	15,5	14,2	14,8	14,5	15,1	15,5
	4H	14,1	14,6	14,5	15,0	15,5	14,1	14,6	14,5	15,0	15,5
	6H	14,0	14,6	14,5	14,9	15,3	14,0	14,6	14,5	14,9	15,3
	8H	14,0	14,5	14,5	14,8	15,2	14,0	14,5	14,5	14,8	15,2
	12H	13,9	14,3	14,4	14,7	15,2	13,9	14,3	14,4	14,7	15,2
8H	4H	14,0	14,5	14,5	14,8	15,2	14,0	14,5	14,5	14,8	15,2
	6H	13,9	14,3	14,4	14,7	15,2	13,9	14,3	14,4	14,7	15,2
	8H	13,9	14,2	14,4	14,7	15,3	13,9	14,2	14,4	14,7	15,3
	12H	13,9	14,1	14,5	14,6	15,2	13,9	14,1	14,5	14,6	15,2
12H	4H	13,9	14,3	14,4	14,7	15,2	13,9	14,3	14,4	14,7	15,2
	6H	13,9	14,2	14,4	14,7	15,3	13,9	14,2	14,4	14,7	15,3
	8H	13,9	14,1	14,5	14,6	15,2	13,9	14,1	14,5	14,6	15,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		5,3 / -7,9					5,3 / -7,9				
S = 1.5H		7,9 / -9,6					7,9 / -9,6				
S = 2.0H		9,9 / -10,4					9,9 / -10,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 625lm 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