

VISUAL COMFORT AND COMPANY TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

SLCH81627XX

PROJECT NUMBER

G106070014

REPORT NUMBER

106070014CHI-007

ISSUE DATE

1/23/2026

REVISED DATE

None

TEST DATES

2026-01-07 through 2026-01-23.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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PAGES

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REPORT NUMBER

106070014CHI-007

MODEL NUMBER(s)

SLCH81627XX

REPORT RENDERED TO:

VISUAL COMFORT AND COMPANY
7400 LINDER AVE
SKOKIE, IL 60077
USA

STATEMENT OF LIMITATION

NVLAP Lab Code 600186-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01505675-0.

TEST STANDARDS

IES LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

ANSI/IES LM-79-19 Optical and Electrical Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2017: Specifications for the Chromaticity of Solid State Lighting (SSL) Products

ANSI/IES TM-30-18: IES Method for Evaluating Light Source Color Rendition

In Charge of Testing:

Reviewer:



T. Quigley
Engineer
Lighting Division



Jeff Davis
N.A. Technical Lead
Lighting Division

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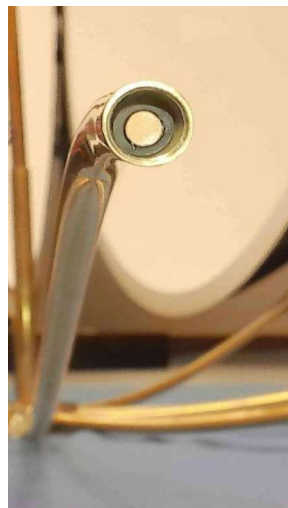
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH12292025090042	SLCH81627XX	Lajos 67 Chandelier	Production	12/29/2025

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	SLCH81627XX	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	SLCH81627XX
Product Description:	Lajos 67 Chandelier
LED Model No.:	COB:BXRE-27G1000-C-82(AA5032-13)
Driver Model No.:	ERP PSS30W-0700-38-VCC1(AB2613)120/277Vac34.2-38Vdc 500mA
Light Source:	LED

Criteria	Results	
	Goniophotometer	Integrating Sphere
Light Output (lumens)	104.8	110.1
Input Power (W) @ 120 (Vac)	15.23	15.16
Lumen Efficacy (lm/W)	6.9	7.3
Input Power Factor @ 120 (Vac)	0.981	0.982

Criteria	Results
Input ATHD (%) @ 120 (Vac)	16.16
Correlated Color Temperature (K)	2731
Color Rendering Index - Ra	90.8
Color Rendering Index - R9	63.2
Duv	0.0027
Chromaticity Coordinate (x)	0.462
Chromaticity Coordinate (y)	0.419
Chromaticity Coordinate (u')	0.260
Chromaticity Coordinate (v')	0.531
Input Power (W) @ 277 (Vac)	15.58
Input Power Factor @ 277 (Vac)	0.887
Input ATHD (%) @ 277 (Vac)	17.53

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

No seasoning was performed in accordance with IESNA LM-79.

INTEGRATING SPHERE TESTING

A spectroradiometer and integrating sphere were used to measure the spectral distribution for each EUT resulting in photometric and colorimetric data. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position inside the sphere and stabilization procedures to LM-79 were followed.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

*ANSI/IES Technical Memorandums (TM) reported are not NVLAP accredited

Test Configuration	Tested Model No.	Pass/Fail/NA
1	SLCH81627XX	NA

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

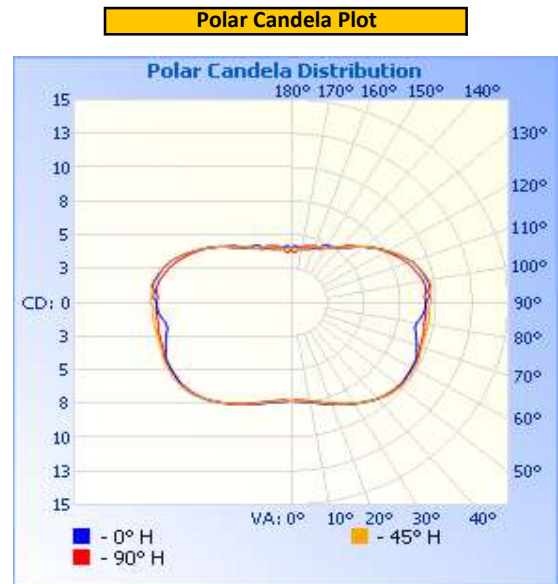
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Horizontal	120.02	129.4	15.23	0.981

Light Output (lm)	Lumen Efficacy (lm/W)
104.8	6.9

INTENSITY SUMMARY - CANDELA

Angle	0	25	45	65	90
0	7	7	7	7	7
5	7	7	7	7	7
10	8	7	7	7	7
15	8	8	8	8	8
20	8	8	8	8	8
25	8	8	8	8	8
30	9	9	9	9	9
35	9	9	9	9	9
40	9	9	9	9	9
45	10	10	10	10	10
50	10	10	10	10	10
55	10	10	10	10	10
60	10	10	10	10	10
65	10	10	10	10	10
70	9	10	10	10	9
75	9	10	10	10	9
80	9	10	10	10	9
85	9	10	10	9	9
90	9	10	10	10	9
95	9	10	10	10	9
100	10	10	10	9	9
105	9	9	9	9	9
110	9	9	9	9	9
115	8	8	8	8	8
120	8	8	8	8	8
125	7	7	7	7	7
130	6	6	6	6	6
135	6	6	6	6	6
140	5	5	5	5	5
145	5	5	5	5	5
150	5	5	5	5	5
155	4	4	4	4	4
160	4	4	4	4	4
165	4	4	4	4	4
170	4	4	4	4	4
175	4	4	4	4	4
180	4	4	4	4	4

Entire luminous intensity matrix found in .IES file

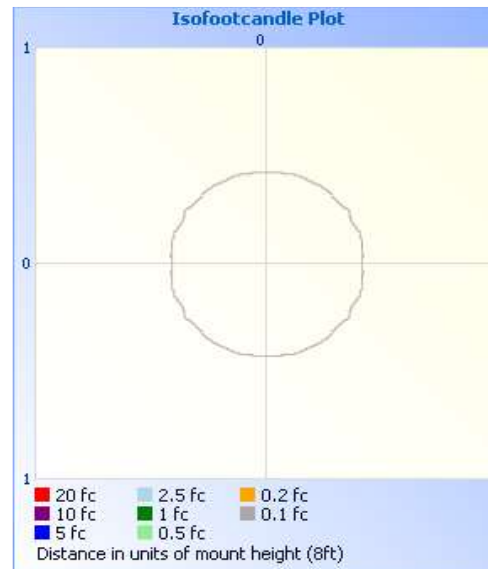


ILLUMINANCE SUMMARY

Mounting Height: 8ft	
Illuminance - Cone Of Light	Isoillumination Plot

Downlight was decreased to 8' to generate distribution pattern.

Illuminance at a Distance		
	Center Beam fc	Beam Width
1.3ft	4.33 fc	
2.7ft	1.00 fc	
4.0ft	0.46 fc	
5.3ft	0.26 fc	
6.7ft	0.16 fc	
8.0ft	0.11 fc	



ZONAL LUMENS

Zonal Lumen Summary					
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Zone	Lumens	Luminaire
0-30	6.8	6.5%
0-40	12.5	11.9%
0-60	28.7	27.4%
60-90	30.1	28.7%
70-100	30.9	29.5%
90-120	28.4	27.1%
0-90	58.8	56.1%
90-180	46.0	43.9%
0-180	104.8	100.0%

Zone	Lumens	Total	Zone	Lumens	Total
0-10	0.7	0.7%	90-100	10.5	10.0%
10-20	2.2	2.1%	100-110	9.7	9.3%
20-30	3.9	3.7%	110-120	8.2	7.8%
30-40	5.7	5.4%	120-130	6.3	6.0%
40-50	7.4	7.1%	130-140	4.5	4.3%
50-60	8.8	8.4%	140-150	3.1	3.0%
60-70	9.6	9.2%	150-160	2.1	2.0%
70-80	10.1	9.6%	160-170	1.2	1.1%
80-90	10.4	9.9%	170-180	0.4	0.4%

Test Configuration	Tested Model No.	Pass/Fail/NA
1	SLCH81627XX	NA

PHOTOMETRIC, COLORIMETRIC, AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)

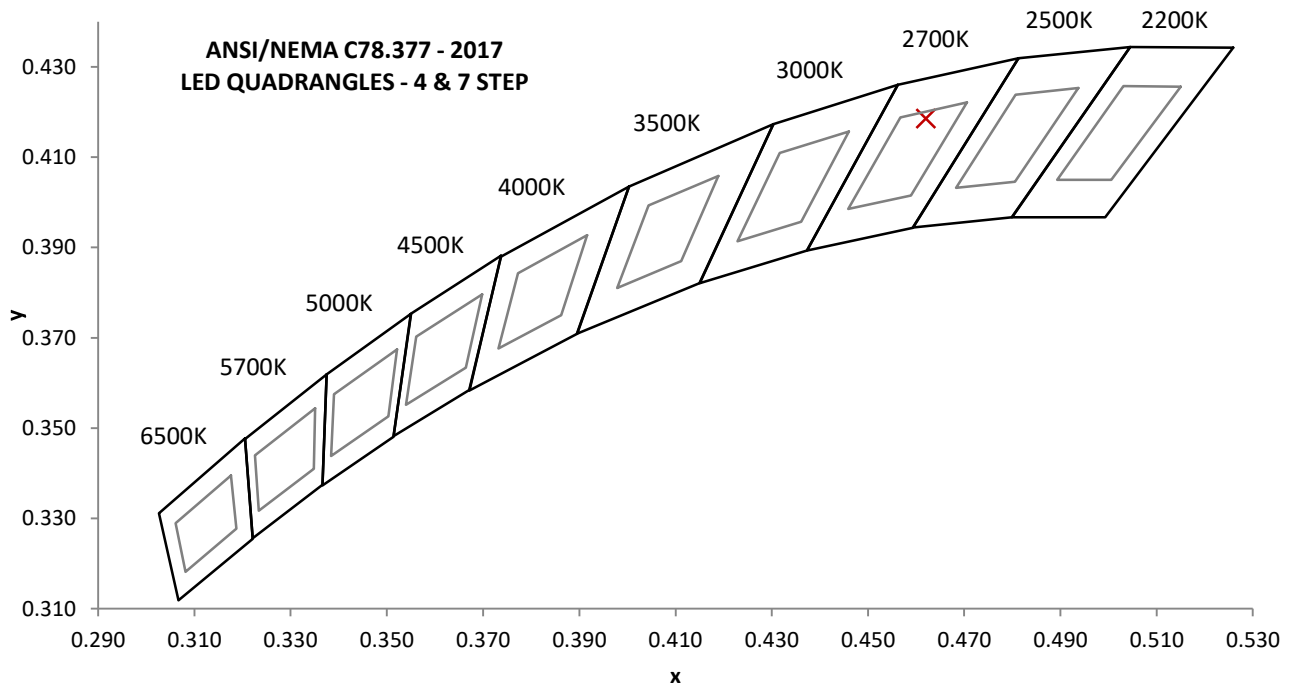
Base Orientation
Horizontal

Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor	Input ATHD (%)
120.00	128.7	15.16	0.982	16.16
277.02	63.4	15.58	0.887	17.53

Measured at 120(Vac)

Light Output (lm)	Lumen Efficacy (lm/W)	CCT (K)	CRI - Ra	CRI - R9
110.1	7.3	2731	90.8	63.2

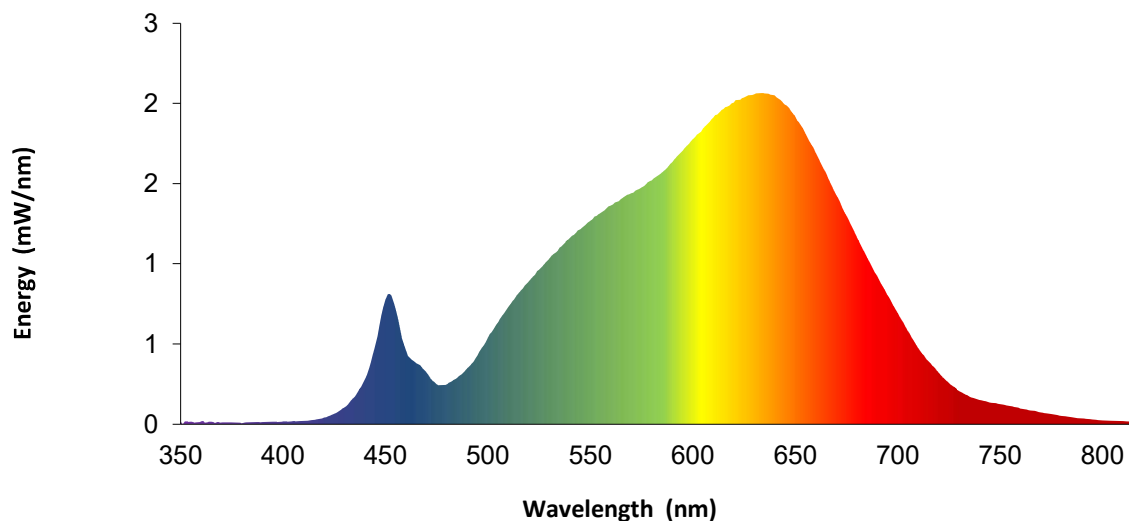
Duv	1931 Chrom (x)	1931 Chrom (y)	1976 Chrom (u')	1976 Chrom (v')
0.0027	0.462	0.419	0.260	0.531



SPECTRAL DISTRIBUTION OVER WAVELENGTHS

nm	mW/nm		nm	mW/nm		nm	mW/nm		nm	mW/nm
350	0.0		460	0.5		570	1.4		680	1.2
355	0.0		465	0.4		575	1.5		685	1.0
360	0.0		470	0.3		580	1.5		690	0.9
365	0.0		475	0.2		585	1.6		695	0.8
370	0.0		480	0.2		590	1.6		700	0.7
375	0.0		485	0.3		595	1.7		705	0.6
380	0.0		490	0.3		600	1.8		710	0.5
385	0.0		495	0.4		605	1.8		715	0.4
390	0.0		500	0.5		610	1.9		720	0.3
395	0.0		505	0.6		615	2.0		725	0.3
400	0.0		510	0.7		620	2.0		730	0.2
405	0.0		515	0.8		625	2.0		735	0.2
410	0.0		520	0.9		630	2.1		740	0.2
415	0.0		525	1.0		635	2.1		745	0.1
420	0.0		530	1.0		640	2.0		750	0.1
425	0.1		535	1.1		645	2.0		755	0.1
430	0.1		540	1.2		650	1.9		760	0.1
435	0.2		545	1.2		655	1.8		765	0.1
440	0.3		550	1.3		660	1.7		770	0.1
445	0.5		555	1.3		665	1.6		775	0.1
450	0.8		560	1.4		670	1.4		780	0.1
455	0.7		565	1.4		675	1.3		---	---

Without correction of sample absorption.



Portrayed color in graphic is estimated by wavelength (nm) and may not be exact - it is a visual representation only



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EQUIPMENT LIST

REPORT NO. 106070014CHI-007

#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Yokogawa Power Meter	WT310E	CHI0664	3/27/2025	3/27/2026
2	Omega Thermometer	DPI8-C24	146920	10/3/2025	10/3/2026
3	LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
4	Omega Thermohygrometer	OM-CP-RFPRHTEMP2000A	CHI0764	10/7/2025	10/7/2026
5	Chroma Power Supply	61604	CHI0371	VBU	VBU
8	Omega Thermohygrometer	OM-CP-RFPRHTEMP2000A	CHI0727	10/7/2025	10/7/2026
9	Labsphere Spectroradiometer	CDS2600	CHI0539	VBU	VBU
10	3 Meter Sphere	SPR600	CHI0088	VBU	VBU
11	Elgar AC Power Supply	CW1251	146112	VBU	VBU
12	Sorenson DC Power Supply	XFR150-8	146846	VBU	VBU
13	Yokogawa Power Meter	WT1600	146769	3/28/2025	3/28/2026
17	Omega thermometer	USB TC08	CHI0625	3/26/2025	3/26/2026
26	Xitron Power Analyzer	XT2640	CHI0611	4/1/2025	4/1/2026

Note: Standard sources listed above are traceable to NIST: National Institute of Standards and Technology

REVISION HISTORY

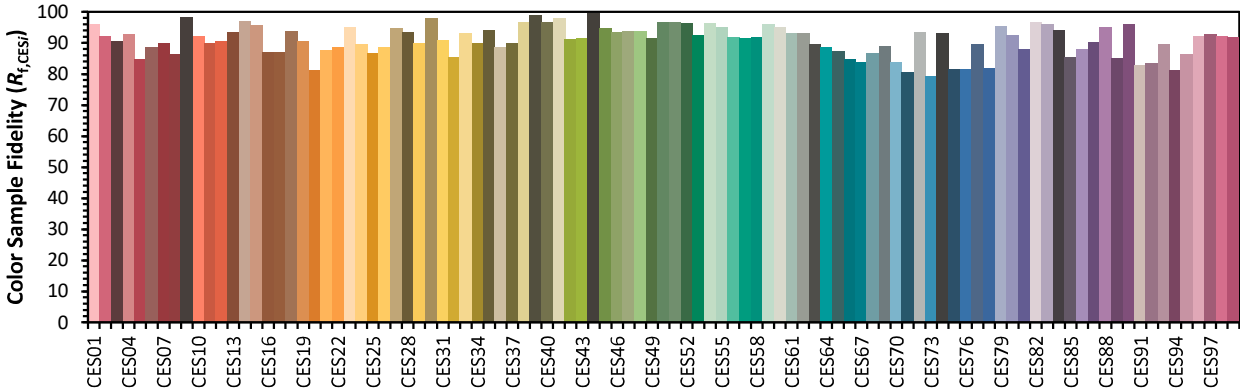
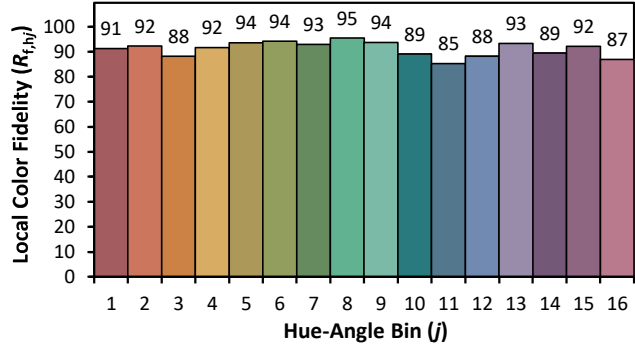
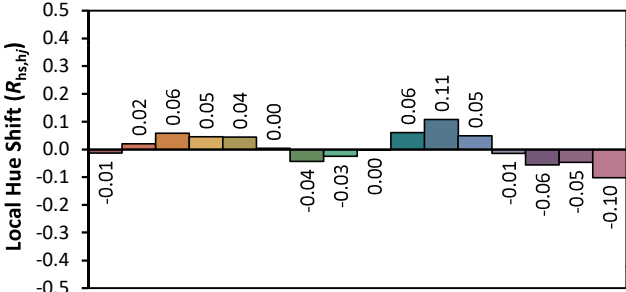
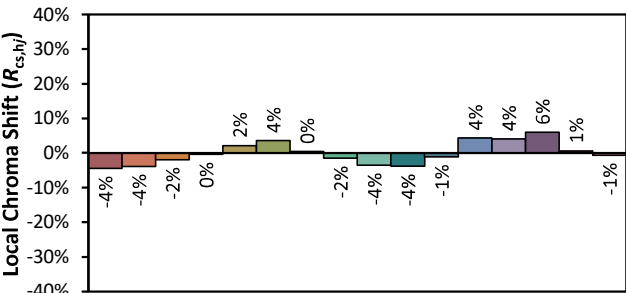
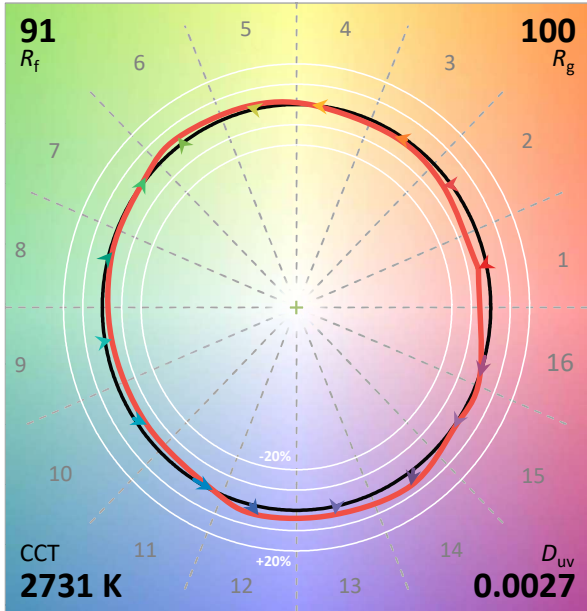
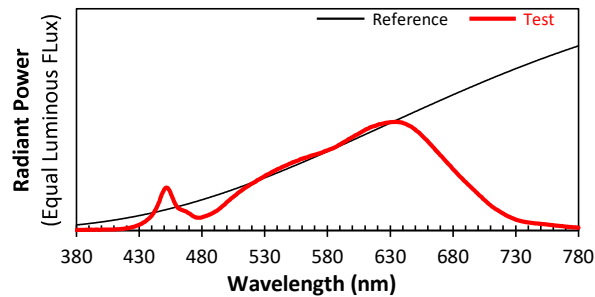
#	Revision Date	Updated By	Reviewed By	Description of Change
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Test Configuration	Tested Model No.	Pass/Fail/NA
1	SLCH81627XX	NA

ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD
Date: 1/23/2026

Manufacturer: VISUAL COMFORT AND COMPANY
Model: SLCH81627XX



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4620
y 0.4185
u' 0.2604
v' 0.5306