

VISUAL COMFORT AND COMPANY TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

700WSDUE5**-LED9**

PROJECT NUMBER

G105265097

REPORT NUMBER

105265097CHI-009D

ISSUE DATE

12/29/2022

REVISED DATE

None

TEST DATES

12/14/2022.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105265097CHI-009D

MODEL NUMBER(s)

700WSDUE5**-LED9**

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.

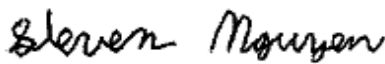
AUTHORIZATION

The testing performed was authorized by signed quote number Qu-01297671-0.

TEST STANDARDS

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

In Charge of Testing:



Steven Nguyen
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Reviewer:



Jeff Davis
N.A. Technical Lead
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SAMPLE INFORMATION

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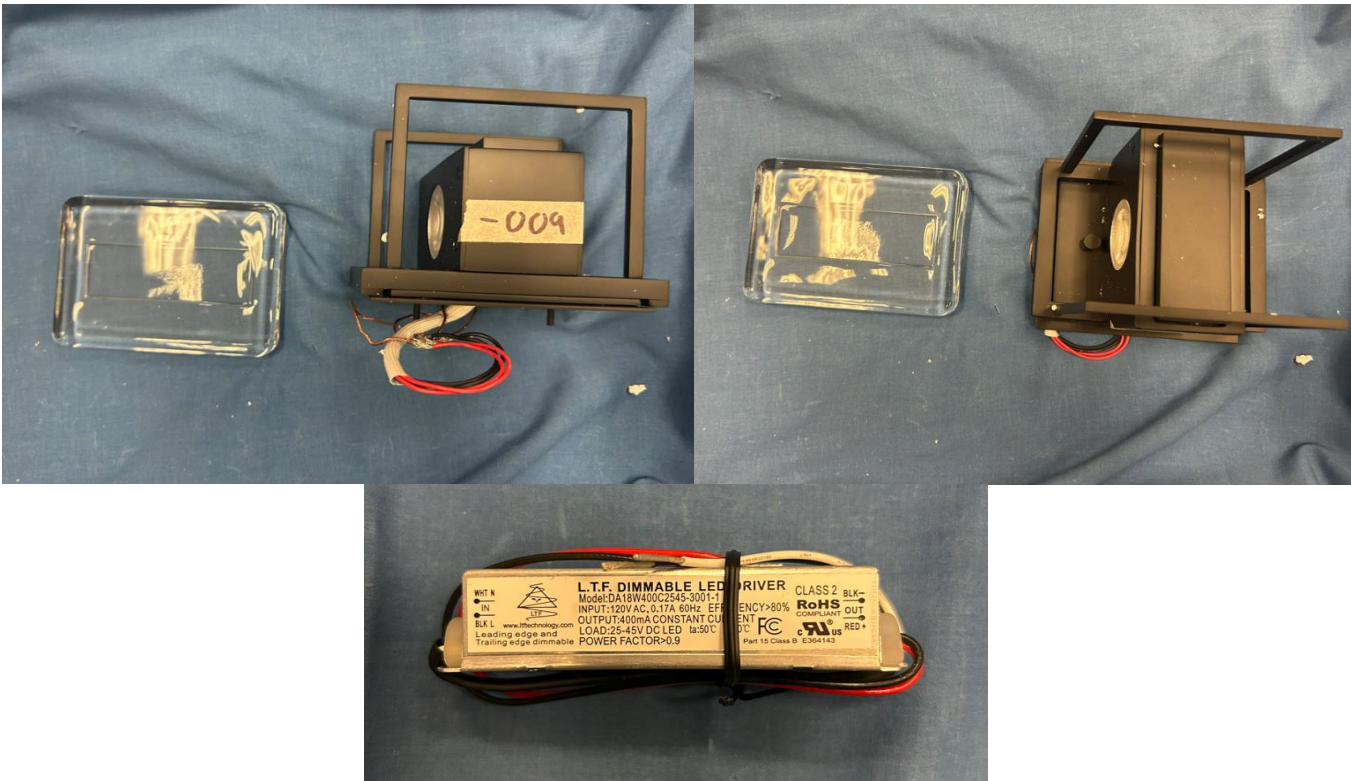
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH11232022041052-009	700WSDUE5**-LED9**	Duelle Small Wall Sconce	Production	11/23/2022

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	700WSDUE5**-LED9**	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	700WSDUE5**-LED9**
Product Description:	Duelle Small Wall Sconce
LED Model No.:	BXRE-27G1000-C-82 (927, 2-step)
Driver Model No.:	DA18W400C2545-3001-01
Light Source:	LED

Criteria	Results
Light Output (lumens)	1063.5
Input Power (W) @ 120VAC (Vac)	14.79
Lumen Efficacy (lm/W)	71.9
Input Power Factor () @ 120VAC (Vac)	0.986

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

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

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.

TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING

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Test Configuration	Tested Model No.	Pass/Fail/NA
1	700WSDUE5**-LED9**	NA

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

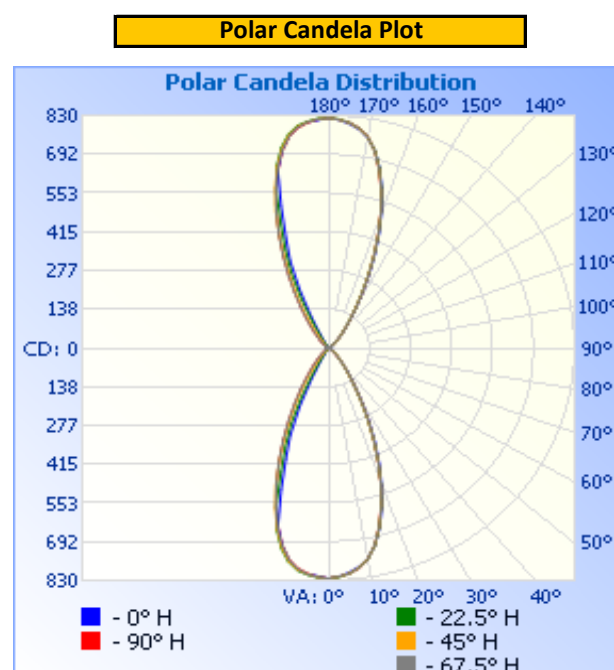
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up/Down	120.00	125.0	14.79	0.986

Light Output (lm)	Lumen Efficacy (lm/W)
1063.5	71.9

INTENSITY SUMMARY - CANDELA

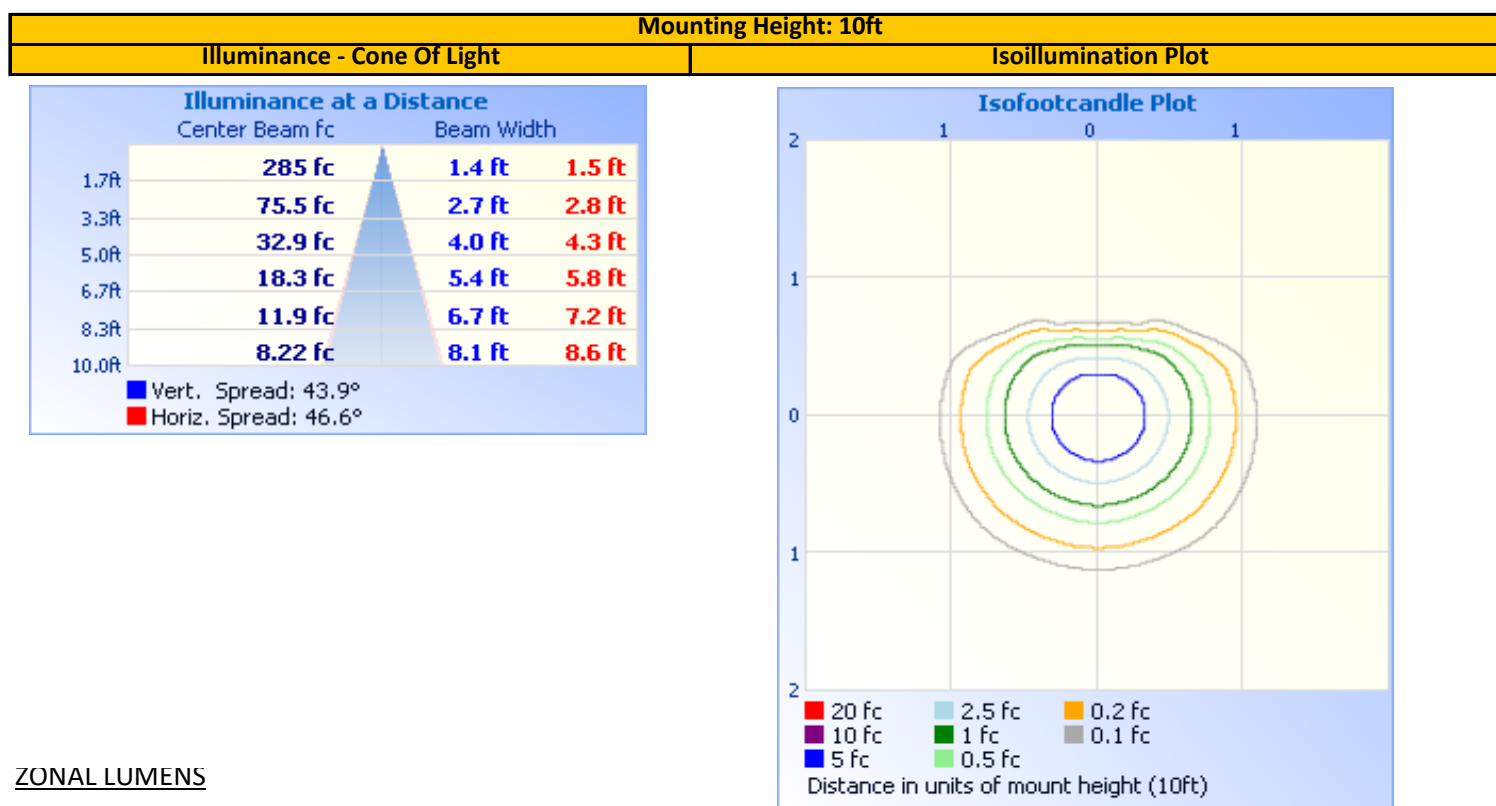
Angle	0	22.5	45	67.5	90
0	822	822	822	822	822
5	804	808	807	808	808
10	762	765	763	764	766
15	666	663	661	660	659
20	524	518	517	516	514
25	369	360	360	361	360
30	232	223	224	226	226
35	136	130	131	133	132
40	79	76	77	78	76
45	45	45	47	45	42
50	28	28	30	26	21
55	12	15	18	11	8
60	5	6	9	8	8
65	11	8	3	10	11
70	11	9	2	9	10
75	11	10	4	8	8
80	9	7	4	4	5
85	5	5	3	2	2
90	8	8	4	1	1
95	5	5	3	2	2
100	9	7	4	4	5
105	11	10	4	8	8
110	11	9	2	9	10
115	11	8	3	10	11
120	5	6	9	8	8
125	12	15	18	11	8
130	28	28	30	26	21
135	45	45	47	45	42
140	79	76	77	78	76
145	136	130	131	133	132
150	232	223	224	226	226
155	369	360	360	361	360
160	524	518	517	516	514
165	666	663	661	660	659
170	762	765	763	764	766
175	804	808	807	808	808
180	822	822	822	822	822

Entire luminous intensity matrix found in .IES file



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ILLUMINANCE SUMMARY



ZONAL LUMENS

Zonal Lumen Summary					
Zone	Lumens	Luminaire	Zone	Lumens	Total
0-30	412.5	38.8%	0-10	75.9	7.1%
0-40	482.8	45.4%	10-20	180.9	17.0%
0-60	518.1	48.7%	20-30	155.7	14.6%
60-90	13.7	1.3%	30-40	70.3	6.6%
70-100	10.6	1.0%	40-50	26.4	2.5%
90-120	13.7	1.3%	50-60	8.8	0.8%
0-90	531.8	50.0%	60-70	5.6	0.5%
90-180	531.7	50.0%	70-80	5.6	0.5%
0-180	1,063.5	100.0%	80-90	2.5	0.2%
			90-100	2.5	0.2%
			100-110	5.6	0.5%
			110-120	5.6	0.5%
			120-130	8.8	0.8%
			130-140	26.4	2.5%
			140-150	70.3	6.6%
			150-160	155.7	14.6%
			160-170	180.9	17.0%
			170-180	75.8	7.1%

EQUIPMENT LIST

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#	Equipment	Model No	Control No.	Last Cal	Cal Due
1	Yokogawa Power Meter	WT310E	CHI0664	3/30/2022	3/30/2023
2	Omega Thermometer	DPI8-C24	146920	10/4/2022	10/4/2023
3	LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
4	Newport Thermohygrometer	iServer	CHI0452	2/3/2022	2/3/2023
5	Chroma Power Supply	61604	CHI0371	VBU	VBU

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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