

VISUAL COMFORT AND COMPANY TEST REPORT

SCOPE OF WORK

LED Performance Testing

MODEL NUMBER

700WSLGSN18BR-LED927

PROJECT NUMBER

G105265097

REPORT NUMBER

105265097CHI-012D

ISSUE DATE

12/29/2022

REVISED DATE

None

TEST DATES

12/22/2022.

DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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REPORT NUMBER

105265097CHI-012D

MODEL NUMBER(s)

700WSLGSN18BR-LED927

REPORT RENDERED TO:

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

STATEMENT OF LIMITATION

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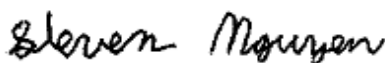
AUTHORIZATION

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

TEST STANDARDS

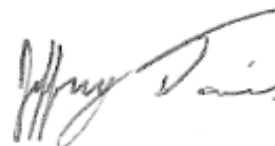
IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



Steven Nguyen
Engineer
Lighting Division

Reviewer:



Jeff Davis
N.A. Technical Lead
Lighting Division

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SAMPLE INFORMATION

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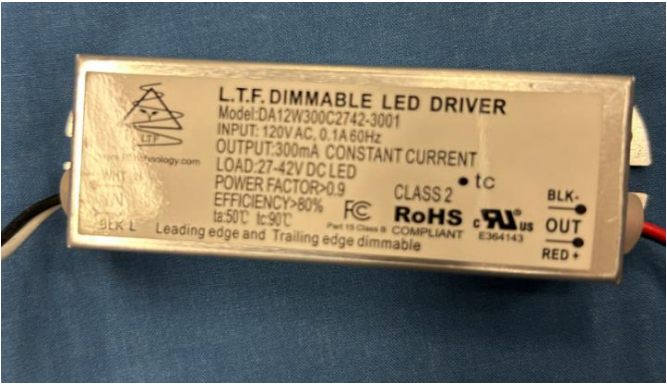
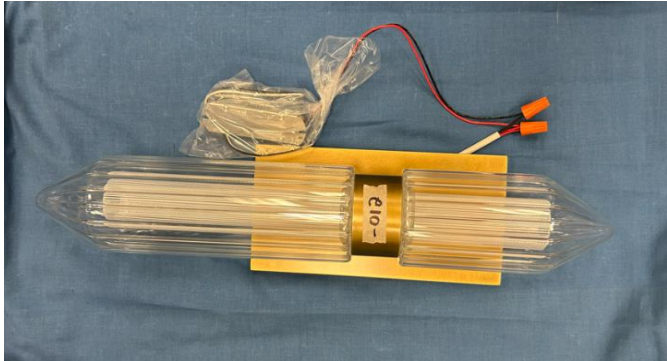
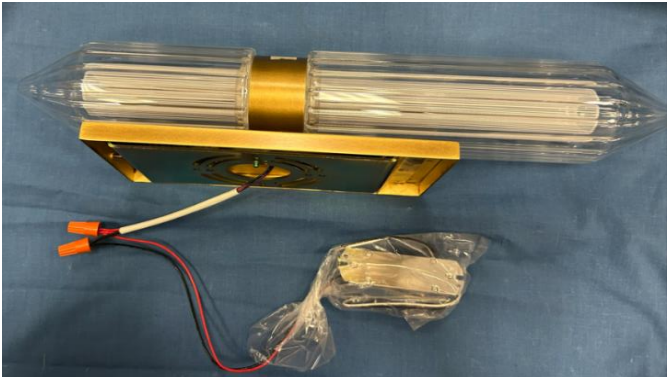
ITEMS RECEIVED

Item No.	Control No.	Model No.	Description	Type	Received
1	AH11232022041052-012	700WSLGSN18BR-LED927	Langston Large Wall Sconce	Production	11/23/2022

TESTED SAMPLE CONFIGURATIONS

Config No.	Tested Model No.	Item Nos. Utilized
1	700WSLGSN18BR-LED927	1

SAMPLE PHOTOS - TESTED CONFIGURATIONS



SUMMARY

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PRODUCT INFORMATION AND SUMMARY OF DATA

Product Model No.:	700WSLGSN18BR-LED927
Product Description:	Langston Large Wall Sconce
LED Model No.:	XYboard: CONCEPT_07_TRIPND_LED(X2)
Driver Model No.:	DA12W300C2742-3001
Light Source:	LED

Criteria	Results
Light Output (lumens)	937.7
Input Power (W) @ 120VAC (Vac)	12.42
Lumen Efficacy (lm/W)	75.5
Input Power Factor () @ 120VAC (Vac)	0.983

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	700WSLGSN18BR-LED927	NA

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

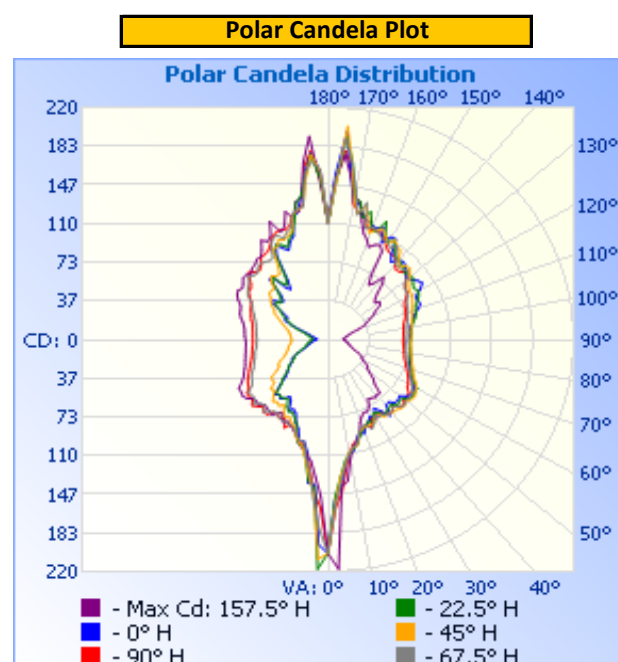
Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (W)	Input Power Factor ()
Up/Down	120.03	105.3	12.42	0.983

Light Output (lm)	Lumen Efficacy (lm/W)
937.7	75.5

INTENSITY SUMMARY - CANDELA

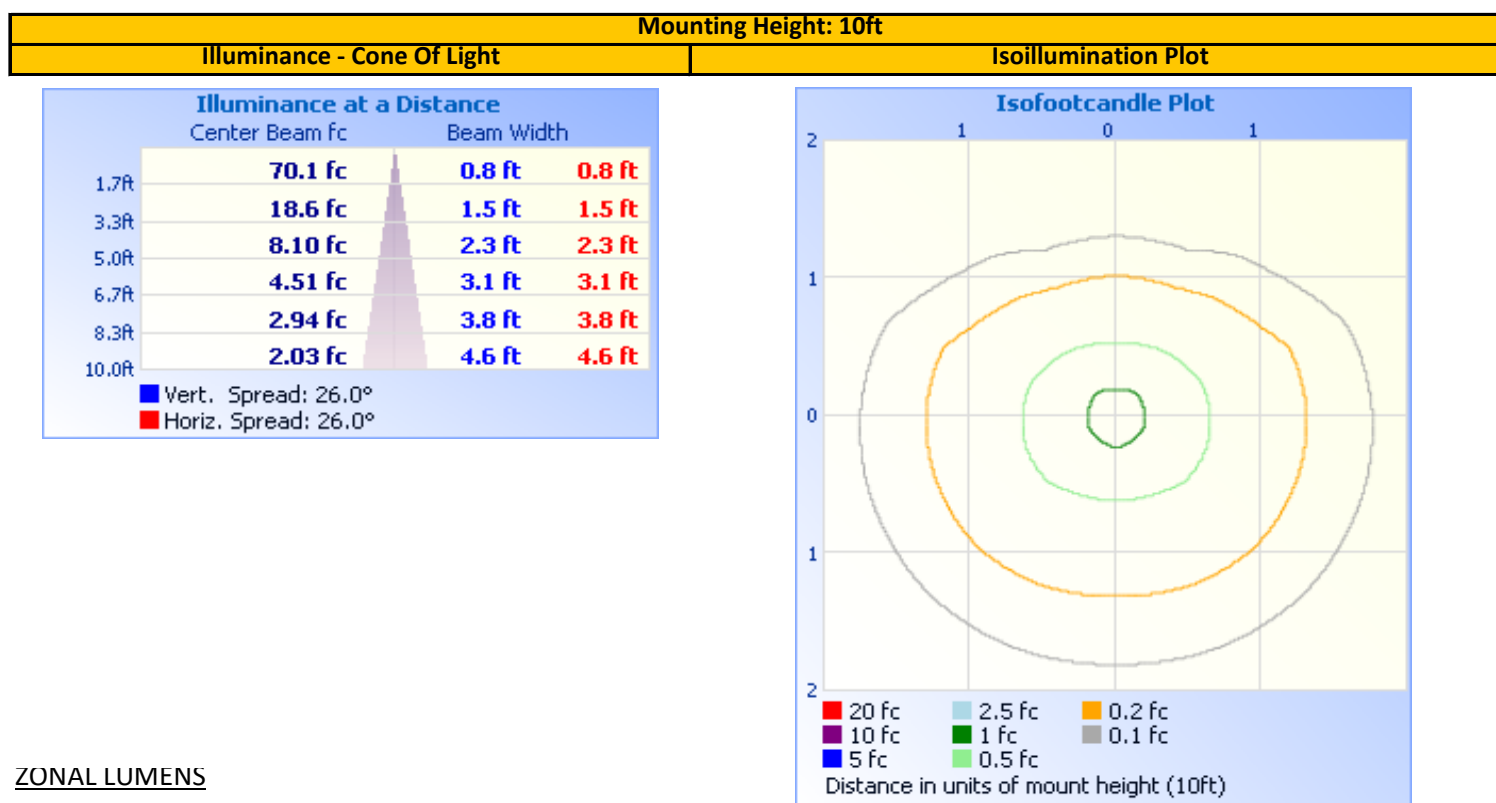
Angle	0	22.5	45	67.5	90
0	203	203	203	203	203
5	139	130	130	136	144
10	110	110	109	110	110
15	99	102	103	102	98
20	95	91	89	88	90
25	86	86	89	94	92
30	85	81	84	85	86
35	83	87	89	86	84
40	81	85	90	89	89
45	85	88	92	90	89
50	83	87	91	91	89
55	91	93	95	91	88
60	89	92	91	87	83
65	82	83	85	81	79
70	78	79	81	77	74
75	76	77	78	73	71
80	74	75	75	71	69
85	73	74	74	70	68
90	73	74	74	70	67
95	73	75	74	71	68
100	75	76	76	71	69
105	79	81	78	74	71
110	86	83	80	76	73
115	88	89	83	78	76
120	95	93	86	82	81
125	98	93	88	84	84
130	91	96	96	92	92
135	98	96	99	94	91
140	98	99	98	94	93
145	99	104	108	108	99
150	112	107	105	107	103
155	118	124	116	110	112
160	115	114	108	113	111
165	121	119	131	134	123
170	132	137	134	145	130
175	198	193	203	191	180
180	111	111	111	111	111

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	79.9	8.5%	90-100	60.4	6.4%
0-40	130.9	14.0%	100-110	63.3	6.7%
0-60	261.8	27.9%	110-120	68.7	7.3%
60-90	189.5	20.2%	120-130	70.8	7.6%
70-100	183.4	19.6%	130-140	66.5	7.1%
90-120	192.3	20.5%	140-150	58.3	6.2%
0-90	451.2	48.1%	150-160	49.4	5.3%
90-180	486.5	51.9%	160-170	34.0	3.6%
0-180	937.7	100.0%	170-180	15.2	1.6%

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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