

VISUAL COMFORT GROUP TEST REPORT

SCOPE OF WORK

Electrical and Photometric tests as required to the IESNA test standard.

MODEL NUMBER
700LSDES48xx-LED92730

REPORT NUMBER
104203293CHI-005

ISSUE DATE
January 7, 2020

REVISION DATE
None

DOCUMENT CONTROL NUMBER
TBD
© 2017 INTERTEK



REPORT NO.: 104203293CHI-005

REPORT DATE: January 7, 2020

TEST REPORT

TEST OF ONE DESSAU 48" LINEAR SUSP

MODEL NO. 700LSDES48XX-LED92730
LED MODEL NO. LUMINUS MP-2016-1100-30-90
DRIVER MODEL NO. LTF DA32W900C2036-3001

RENDERED TO:

VISUAL COMFORT GROUP
7400 LINDER AVE.
SKOKIE IL 60077

AUTHORIZATION

The testing performed was authorized by signed quote number Qu-00981438.

STANDARDS USED

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

DESCRIPTION OF SAMPLE

The client submitted one production sample of model number 700LSDES48xx-LED92730. The sample was received by Intertek on December 23, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH12232019065911-005.

DATE OF TESTS

January 3, 2019.

REPORT NO.: 104203293CHI-005

REPORT DATE: January 7, 2020

TEST REPORT

SUMMARY

MODEL NO:	700LSDES48xx-LED92730
DESCRIPTION:	Dessau 48" Linear Susp

CRITERIA	RESULTS
Lumen Output (lumens)	2261.2
Input Power (W) @ 120 (VAC)	36.16
Lumen Efficacy (lm/W)	62.5
Input Power Factor @ 120 (VAC)	0.994

EQUIPMENT LIST

EQUIPMENT USED	MODEL NO.	CONTROL NO.	LAST CAL DATE	CAL DUE DATE
Yokogawa Power Meter	WT210	146919	7/1/2019	7/1/2020
Omega Thermometer	DPI8-C24	146920	10/3/2019	10/3/2020
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
Newport Thermohygrometer	iServer	146956	10/11/2019	10/11/2020
Elgar, AC Power Supply	CW1251	146111	VBU	VBU

REPORT NO.: 104203293CHI-005

REPORT DATE: January 7, 2020

TEST REPORT

TEST METHODS

SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS

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

PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD

A Type C Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

REPORT NO.: 104203293CHI-005

REPORT DATE: January 7, 2020

TEST REPORT

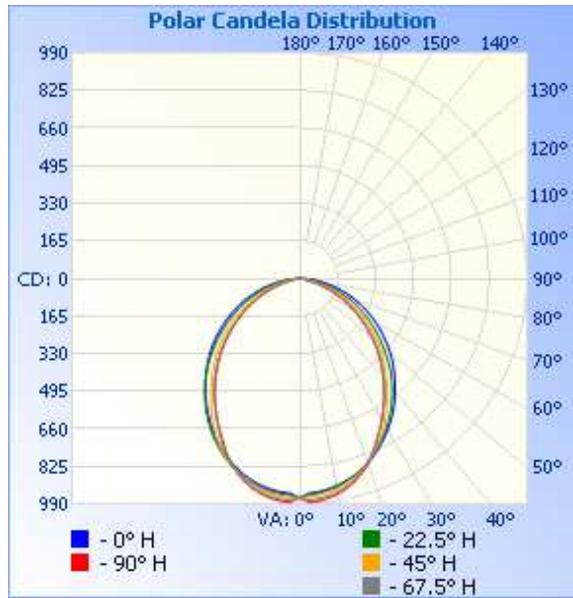
RESULTS OF TESTS

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

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR ()	LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)
AH12232019065911-005	Base Up	120.0	303.0	36.16	0.994	2261.2	62.5

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	963	963	963	963	963
5	940	945	954	969	980
10	924	929	938	951	960
15	900	901	907	915	923
20	864	860	862	860	868
25	818	811	805	792	790
30	767	757	739	716	716
35	711	695	662	642	643
40	646	628	589	569	569
45	582	556	518	496	493
50	518	479	447	421	417
55	448	406	375	347	341
60	381	336	304	276	266
65	313	268	233	204	194
70	244	200	166	136	125
75	178	135	100	72	64
80	112	73	40	24	21
85	52	18	2	0	0
90	3	0	0	0	0



REPORT NO.: 104203293CHI-005

REPORT DATE: January 7, 2020

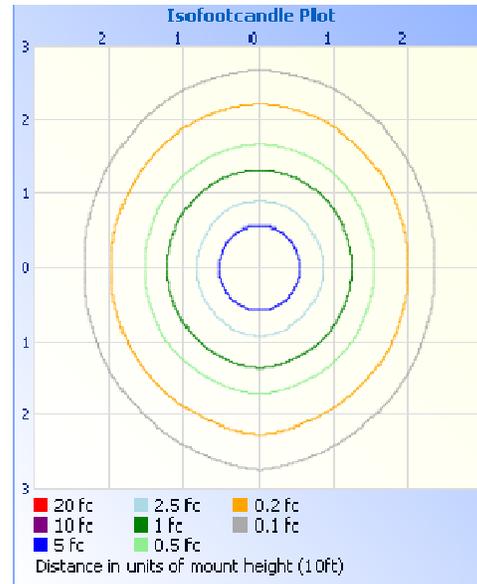
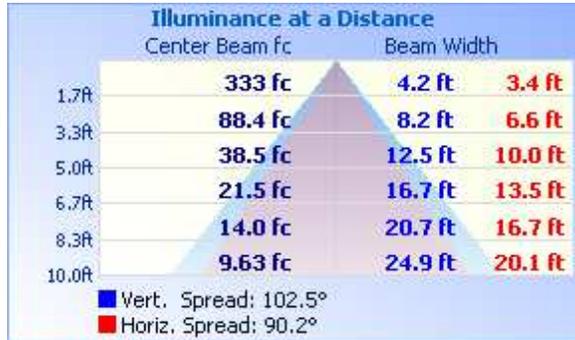
TEST REPORT

RESULTS OF TESTS

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

MOUNTING HEIGHT: 10ft

ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT
-----------------------------	----------------------



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	718.0	31.8
0-40	1138.0	50.3
0-60	1888.8	83.5
60-90	372.3	16.5
70-100	133.6	5.9
90-120	0.1	0.0
0-90	2261.1	100.0
90-180	0.1	0.0
0-180	2261.2	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	90.9	4.0
10-20	256.1	11.3
20-30	371.0	16.4
30-40	420.0	18.6
40-50	408.2	18.1
50-60	342.6	15.2
60-70	238.7	10.6
70-80	115.0	5.1
80-90	18.5	0.8
90-100	0.1	0.0

REPORT NO.: 104203293CHI-005
REPORT DATE: January 7, 2020

TEST REPORT

PICTURES



CONCLUSION

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

Timothy Quigley
Project Engineer
Lighting Division

Report Reviewed By:

Jeffrey Davis
N. A. Technical Lead
Lighting Division

Attachments: IES File

REVISION HISTORY

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY	REVISION NOTE
None				