

VISUAL COMFORT GROUP TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER

700VLV36**-LED922

REPORT NUMBER

104206403CHI-051

ISSUE DATE

March 6, 2020

REVISION DATE

None

DOCUMENT CONTROL NUMBER

TBD

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REPORT DATE: March 6, 2020

TEST REPORT

TEST OF ONE VELLAVI 36 CHANDELIER

MODEL NO. 700VLV36**-LED922
LED MODEL NO. DILUX WW-FLS120T28WW120B-24(WCP)-UR-3S(15)
DRIVER MODEL NO. MACRON MDR-608-24-60-LD

RENDERED TO:

VISUAL COMFORT GROUP
7400 LINDER AVE.
SKOKIE IL 60077

STATEMENT OF LIMITATIONS

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-01040682-1.

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 700VLV36**-LED922. The sample was received by Intertek on February 26, 2020 in undamaged condition and one sample was tested as received. The sample designation was AH02262020084625.

DATE OF TESTS

February 27, 2020.

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SUMMARY

MODEL NO:	700VLV36**-LED922
DESCRIPTION:	Vellavi 36 Chandelier

CRITERIA	RESULTS
Lumen Output (lumens)	2262.6
Input Power (W) @ 120 (VAC)	42.32
Lumen Efficacy (lm/W)	53.5
Input Power Factor () @ 120 (VAC)	0.955

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	VBV	VBV
Newport Thermohygrometer	iServer	146957	12/2/2019	12/2/2020
Pacific, AC Power Supply	118-ACX	CHI0153	VBV	VBV

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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.

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TEST REPORT

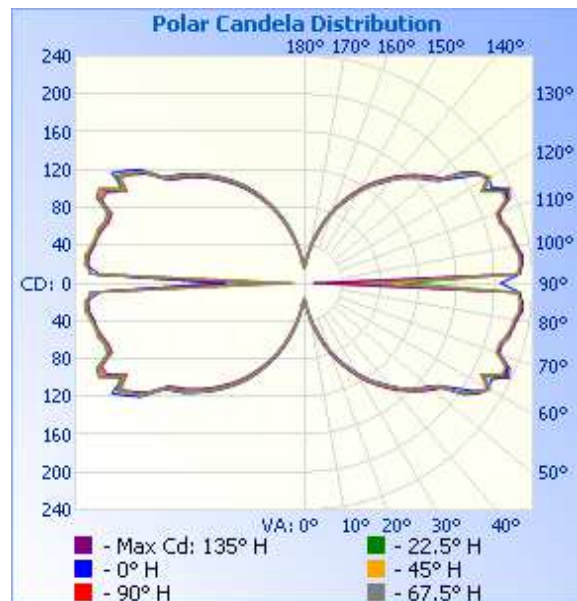
RESULTS OF TESTS

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)
AH02262020084625	Base Up	120.1	369.1	42.32	0.955	2262.6	53.5

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	17	17	17	17	17
5	20	22	23	24	24
10	35	38	38	39	40
15	52	55	56	57	58
20	72	74	75	76	77
25	90	93	93	94	95
30	109	111	111	112	113
35	127	128	128	129	130
40	142	143	144	144	145
45	157	158	158	159	160
50	170	172	172	173	173
55	194	205	202	202	205
60	224	224	226	225	222
65	234	232	228	230	231
70	216	215	215	215	216
75	219	219	219	220	220
80	225	224	224	224	225
85	230	228	228	228	229
90	206	104	82	66	29
95	230	228	228	228	229
100	225	224	224	224	225
105	219	219	219	220	220
110	216	215	215	215	216
115	234	232	228	230	231
120	224	224	226	225	222
125	194	205	202	202	205
130	170	172	172	173	173
135	157	158	158	159	160
140	142	143	144	144	145
145	127	128	128	129	130
150	109	111	111	112	113
155	90	93	93	94	95
160	72	74	75	76	77
165	52	55	56	57	58
170	35	38	38	39	40
175	20	22	23	24	24
180	17	17	17	17	17



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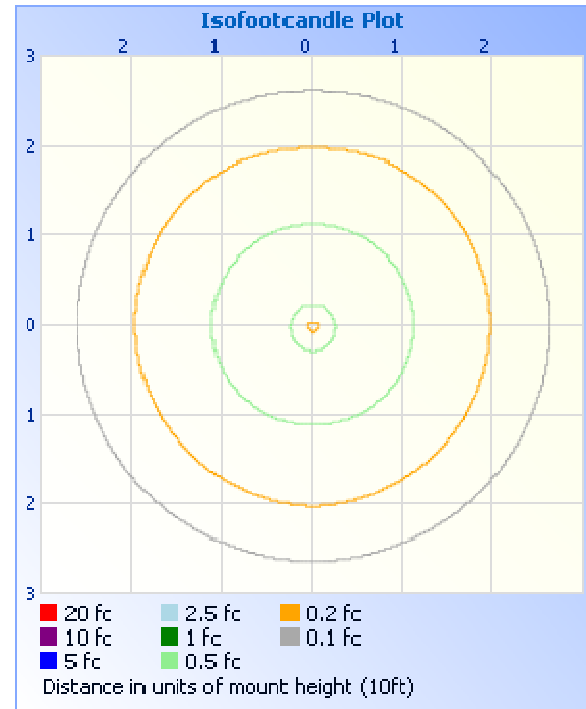
TEST REPORT

RESULTS OF TESTS

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

MOUNTING HEIGHT: 10ft	
ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT

Illuminance at a Distance		
	Center Beam fc	Beam Width
1.7ft	5.81 fc	83.8 ft
3.3ft	1.54 fc	162.6 ft
5.0ft	0.67 fc	246.4 ft
6.7ft	0.37 fc	330.2 ft
8.3ft	0.24 fc	409.0 ft
10.0ft	0.17 fc	492.8 ft
■ Horiz. Spread: 175.4°		



ZONAL LUMEN SUMMARY AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	64.3	2.8
0-40	146.1	6.5
0-60	450.3	19.9
60-90	681.0	30.1
70-100	682.7	30.2
90-120	681.0	30.1
0-90	1131.3	50.0
90-180	1131.3	50.0
0-180	2262.6	100.0

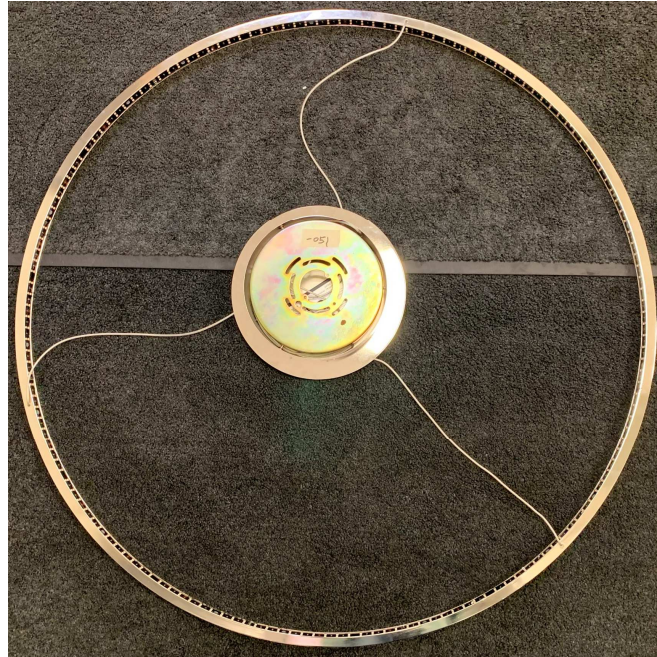
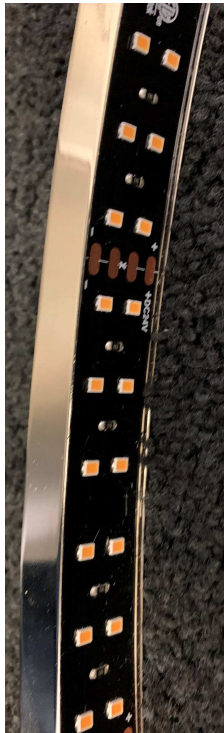
ZONE	LUMENS	% LUMINAIRE
0-10	2.8	0.1
10-20	17.0	0.8
20-30	44.5	2.0
30-40	81.8	3.6
40-50	124.3	5.5
50-60	180.0	8.0
60-70	223.1	9.9
70-80	233.2	10.3
80-90	224.8	9.9
90-100	224.8	9.9
100-110	233.2	10.3
110-120	223.1	9.9
120-130	179.9	8.0
130-140	124.3	5.5
140-150	81.8	3.6
150-160	44.5	2.0
160-170	17.0	0.8
170-180	2.8	0.1

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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:

Ian Smith

Ian Smith
Engineer
Lighting Division

Report Reviewed By:

Jeff Davis

Jeff Davis
N.A. Technical Lead
Lighting Division

Attachments: IES File

REVISION HISTORY

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