

# AFX, INC. TEST REPORT

#### **SCOPE OF WORK**

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

MODEL NUMBER ANTON PENDANT

**REPORT NUMBER** 103792309CHI-010

**ISSUE DATE** August 1, 2019

**REVISION DATE**None

DOCUMENT CONTROL NUMBER
TBD
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**TEST REPORT** 

REPORT NO.:103792309CHI-010 REPORT DATE: August 1, 2019

# TEST OF ONE ANP19332LAJUDSN-JT

MODEL NO. ANTON PENDANT LED MODEL NO. SAMSUNG 281B+ DRIVER MODEL NO. EPT PVD36-C140V26-UNV4-P

# **RENDERED TO:**

AFX, INC. 2345 N. ERNIE KREUGER CIRCLE WAUKEGAN, IL 60087

#### **AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-00943315-1.

# **STANDARDS USED**

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

#### **DESCRIPTION OF SAMPLE**

The client submitted one prototype sample of model number ANTON PENDANT. The sample was received by Intertek on July 18, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH07182019033836-010.

# **DATE OF TESTS**

July 23, 2019.

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# **TEST REPORT**

# **SUMMARY**

MODEL NO: ANTON PENDANT
DESCRIPTION: ANP19332LAJUDSN-JT

CRITERIA	RESULTS
Lumen Output (lumens)	2607.1
Input Power (W) @ 120 (VAC)	35.64
Lumen Efficacy (lm/W)	73.2
Input Power Factor @ 120 (VAC)	0.997

# **EQUIPMENT LIST**

FOLUDIATINE LISED	MODEL	CONTROL	LAST CAL	CAL DUE
EQUIPMENT USED	NO.	NO.	DATE	DATE
Yokogawa Power Meter	WT210	146919	7/1/2019	7/1/2020
Omega Thermometer	DPI8-C24	146920	10/4/2018	10/4/2019
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
Newport Thermohygrometer	iServer	146957	12/11/2018	12/11/2019
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU



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# **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.



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# **TEST REPORT**

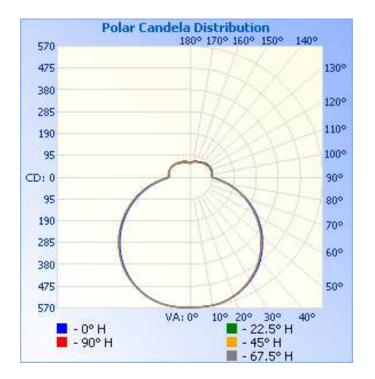
# **RESULTS OF TESTS**

# 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 (Im)	LUMEN EFFICACY (Im/W)
AH07182019033836-010	Base Up	120.1	297.9	35.64	0.997	2607.1	73.2

# **INTENSITY SUMMARY - CANDELAS**

Angle	0	22.5	45	67.5	90
0	567	567	567	567	567
5	566	567	567	567	567
10	566	566	566	566	566
15	562	561	561	561	561
20	552	550	550	550	550
25	538	534	534	534	534
30	520	515	515	515	515
35	497	492	491	491	491
40	471	464	464	463	464
45	439	433	432	432	432
50	406	399	398	398	398
55	370	363	362	362	362
60	331	324	324	324	324
65	292	283	284	285	285
70	251	242	244	245	245
75	210	201	203	204	205
80	169	161	163	164	165
85	130	123	125	125	126
90	99	96	95	94	94
95	97	96	95	94	94
100	98	97	96	95	94
105	99	97	96	95	94
110	99	97	96	95	94
115	98	97	95	94	93
120	97	96	93	92	91
125	95	93	90	90	89
130	92	90	87	86	87
135	88 84	87 83	84 80	84 81	85 82
140 145	84 79	83 78	80 77	81 77	82 79
150	79 74	78 74	77 72	77 74	79 75
155	74 72	74 73	72 73	74 75	75 76
160	72 73	73 73	73 72	75 74	76 76
165	73 70	73 69	72 68	74 70	76 73
170	66	66	64	67	73 70
175	63	62	62	64	66
180	62	62	62	62	62
100	UZ	UZ	UΖ	UΖ	UZ





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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** Isofootcandle Plot Illuminance at a Distance 4 Center Beam fc Beam Width 196 fc 7.3 ft 7.3 ft 3 1.7ft 52.0 fc 14.1 ft 14.1 ft 3.3R 22.7 fc 21.3 ft 21.4 ft 2 5.0R 12.6 fc 28.6 ft 28.7 ft 6.7R 1 8.23 fc 35.4 ft 35.6 ft 8.3A 5.67 fc 42.7 ft 42.9 ft 10.0R ō. Vert. Spread: 129.8° Horiz, Spread: 130.0° 1 2 3 4 ■ 0.2 fc 20 fc 2.5 fc ■ 0.1 fc ■ 10 Fc 1 fc ■ 5 fc 0.5 fc Distance in units of mount height (10ft).

# **ZONAL LUMEN SUMMARY AND PERCENTAGES**

ZONE	LUMENS	% LUMINAIRE
0-30	459.0	17.6
0-40	766.6	29.4
0-60	1424.1	54.6
60-90	632.3	24.3
70-100	453.2	17.4
90-120	295.3	11.3
0-90	2056.4	78.9
90-180	550.6	21.1
0-180	2607.1	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	54.1	2.1
10-20	158.4	6.1
20-30	246.5	9.5
30-40	307.6	11.8
40-50	333.7	12.8
50-60	323.9	12.4
60-70	281.3	10.8
70-80	214.2	8.2
80-90	136.8	5.2
90-100	102.2	3.9
100-110	99.9	3.8
110-120	93.1	3.6
120-130	81.0	3.1
130-140	65.6	2.5
140-150	48.7	1.9
150-160	33.9	1.3
160-170	19.9	0.8
170-180	6.2	0.2



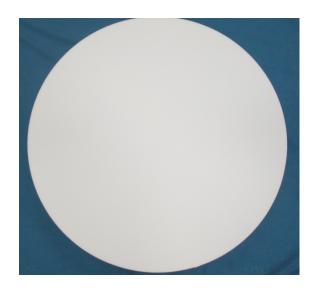
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# **TEST REPORT**

# **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: Report Reviewed By:

Tess le Calligher

Tess Gallagher Engineer Lighting Division

Timothy Quigley Project Engineer Lighting Division

Tim Dugley

Attachments: IES File

# **REVISION HISTORY**

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