

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

TEST REPORT

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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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

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	10/4/2018	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 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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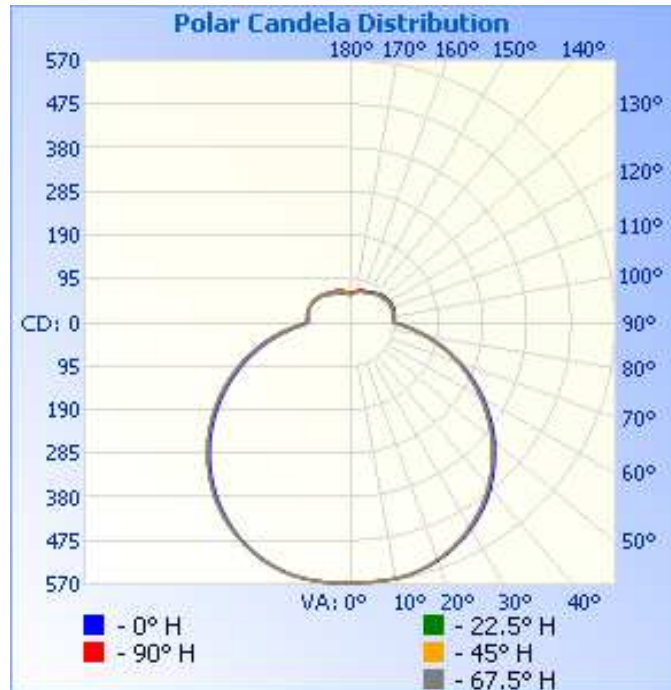
RESULTS OF TESTS

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)
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	87	84	84	85
140	84	83	80	81	82
145	79	78	77	77	79
150	74	74	72	74	75
155	72	73	73	75	76
160	73	73	72	74	76
165	70	69	68	70	73
170	66	66	64	67	70
175	63	62	62	64	66
180	62	62	62	62	62



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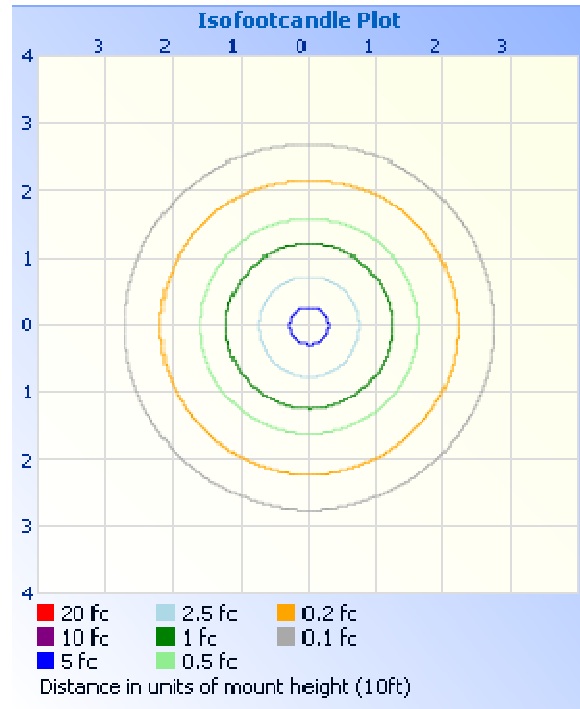
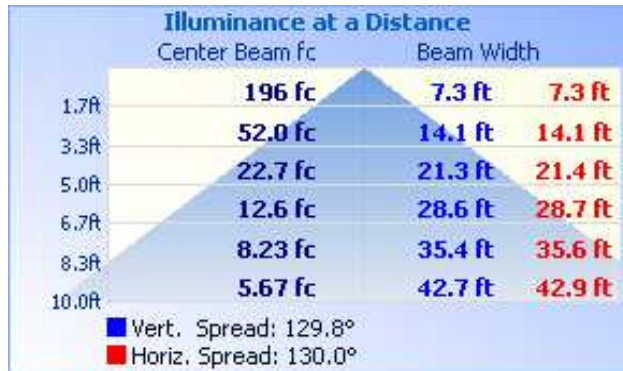
TEST REPORT

RESULTS OF TESTS

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

MOUNTING HEIGHT: 10ft

ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT
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ZONAL LUMEN SUMMARY AND PERCENTAGES

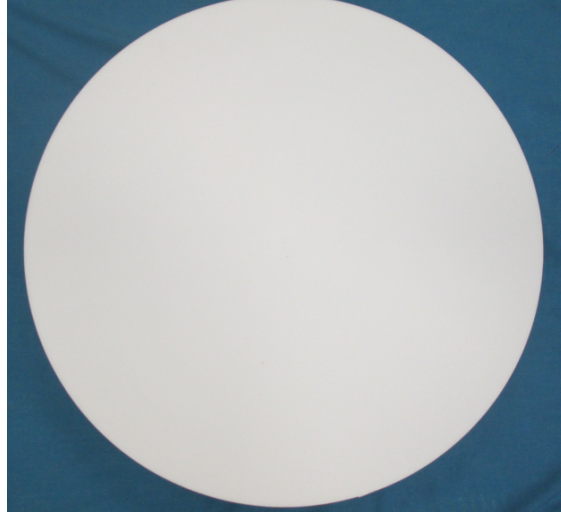
ZONE	LUMENS	% LUMINAIRE
0-30	459.0	17.6
0-40	766.6	29.4
0-60	1424.1	54.6
60-90	632.3	24.3
70-100	453.2	17.4
90-120	295.3	11.3
0-90	2056.4	78.9
90-180	550.6	21.1
0-180	2607.1	100.0

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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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:

Tess Gallagher

Tess Gallagher
Engineer
Lighting Division

Report Reviewed By:

Tim Quigley

Timothy Quigley
Project Engineer
Lighting Division

Attachments: IES File

REVISION HISTORY

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