



REPORT

545 E. Algonquin Rd., Arlington Heights, IL 60005

Project No. G102503549

Date: April 5, 2016

REPORT NO. 102503549CHI-004

TEST OF ONE PENDANT

MODEL NO. WLP
LED MODEL NO. NICHIA 2X757
DRIVER MODEL NO. LF1048-88-C0500-010V

RENDERED TO

LUMENART LTD
3333 W. 47TH ST/
CHICAGO, IL 60632

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

STATEMENT OF LIMITATION: 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-00660984-3.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

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

DESCRIPTION OF SAMPLE: The client submitted one prototype sample of model number WLP. The sample was received by Intertek on March 8, 2016, in undamaged condition and one sample was tested as received. The sample designation was AH03082016100716-4.

DATES OF TESTS: April 5, 2016

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SUMMARY

Model No.:	WLP
Description:	PENDANT

Criteria	Result
Total Lumen Output (Lumens)	1564
Total Power (W)	25.35
Luminaire Efficacy (LPW)	61.70
Power Factor	0.987

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Yokogawa Power Meter	WT210	146919	07/14/15	07/14/16	04/05/16
Omega Newport Thermometer	DPI8-C24	146920	10/09/15	10/09/16	04/05/16
LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV	04/05/16
Newport Thermohygrometer	iServer	146956	01/04/16	01/04/17	04/05/16
Pacific, AC power supply	118-ACX	CHI0358	VBV	VBV	04/05/16

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 LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

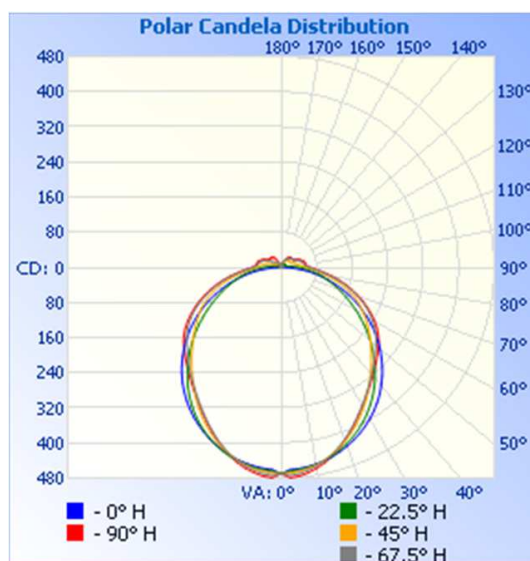
RESULTS OF TEST

Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°C) – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage {Vac}	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous Flux (Lumens)	Lumen Efficacy (LPW)
AH03082016100716-4	Up	120.1	213.8	25.35	0.987	1564	61.70

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	470	470	470	470	470
5	460	463	466	471	476
10	455	456	456	459	464
15	446	444	441	440	445
20	433	429	421	417	420
25	418	409	397	391	392
30	399	386	370	364	365
35	376	359	342	340	342
40	351	329	314	318	321
45	322	296	288	297	303
50	291	263	263	278	286
55	258	228	239	260	267
60	222	195	216	237	243
65	185	163	193	210	214
70	147	133	165	179	183
75	110	108	135	148	150
80	74	85	104	114	117
85	39	62	78	85	87
90	11	41	57	65	66
95	0	28	45	54	57
100	0	17	39	51	55
105	0	12	33	49	54
110	0	12	29	43	48
115	0	11	25	40	43
120	0	11	24	34	35
125	0	10	23	31	32
130	0	10	22	30	32
135	0	9	22	29	31
140	0	8	20	27	30
145	0	6	18	24	27
150	0	5	15	21	20
155	0	3	12	18	11
160	0	2	10	14	7
165	0	1	6	11	5
170	1	1	3	6	2
175	1	0	1	1	0
180	0	0	0	0	0

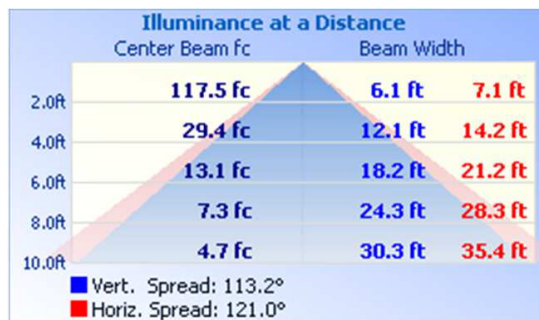


RESULTS OF TEST (cont'd)

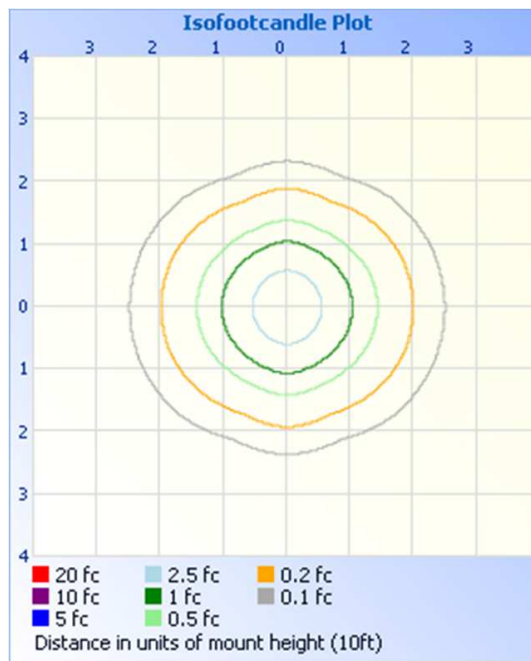
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



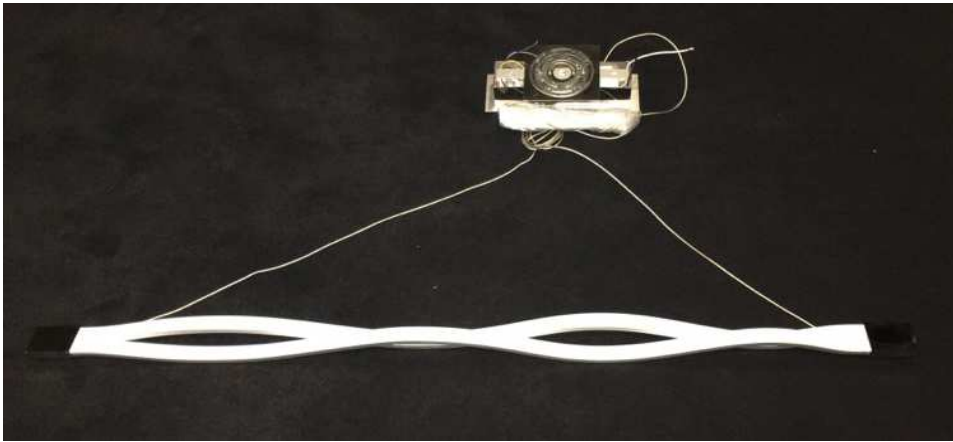
Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	353.4	22.6
0-40	572.2	36.6
0-60	1022	65.3
60-90	402.5	25.7
0-90	1424	91.0
90-180	140.0	9.0
0-180	1564	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	44.3	2.8
10-20	124.8	8.0
20-30	184.4	11.8
30-40	218.7	14.0
40-50	229.7	14.7
50-60	219.9	14.1
60-70	187.8	12.0
70-80	136.0	8.7
80-90	78.8	5.0
90-100	43.6	2.8
100-110	31.9	2.0
110-120	22.6	1.4
120-130	15.8	1.0
130-140	12.1	0.8
140-150	8.3	0.5
150-160	4.1	0.3
160-170	1.4	0.1
170-180	0.1	0.0

PICTURES (not to scale)



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.

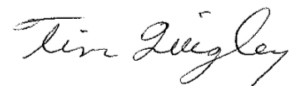
In Charge Of Tests:



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Attachment: None

Report Reviewed By:



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