



REPORT

545 E. ALGONQUIN ROAD ARLINGTON HEIGHTS, ILLINOIS 60005

Project No. G100766137

Date: September 26, 2012

REPORT NO. 100766137CHI-011

TEST OF ONE COMPACT FLUORESCENT LUMINAIRE

FIXTURE MODEL NO. APD.53.2
BALLAST MODEL NO. ADVANCE ICF-2S26-H1-LD

RENDERED TO
LUMENART LTD.
3333 W 47th STREET
CHICAGO, IL 60632

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

AUTHORIZATION: The testing performed was authorized by signed quote number 500383499.

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-41 1998 Approved Method for Photometric Testing of Indoor Fluorescent Luminaires

DESCRIPTION OF SAMPLE: The client submitted one sample of model number APD.53.2. The sample was received by Intertek on September 4, 2012, in undamaged condition, and one sample was tested as received. The sample designation was CHI1209041744-010 for the luminaire and CHI1209041744-015 for the glass.

DATES OF TESTS: September 10, 2012



SUMMARY

Model No.:	APD.53.2
Description:	Pendant-mount compact fluorescent luminaire with 1x26W CFL lamp.

Criteria	Result
Total Lumen Output	1662 Lumens
Total Power	29.18 W
Luminaire Efficacy	56.96
Power Factor	0.998

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Calibration Date	Calibration Due Date
Yokogawa Power Meter	WT210	146919	11/18/2011	11/18/2012
Omega Thermometer	DPI8-C24	146920	11/18/2011	11/18/2012
LSI High Speed Mirror Goniometer	6440T	146928	VBV	VBV
Newport Hygrometer	iServer	146961	2/23/2012	2/23/2013
Elgar, AC Power Supply	CW1251P	146918	VBV	VBV
Extech Stopwatch	365510	146830	2/16/2012	2/16/2013



TEST METHODS

Seasoning in Sample Orientation – Fluorescent Products

Seasoning was performed per LM-54.

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 Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

Estimated Total Operating Time

Model No.	Total Hours
APD.53.2	1

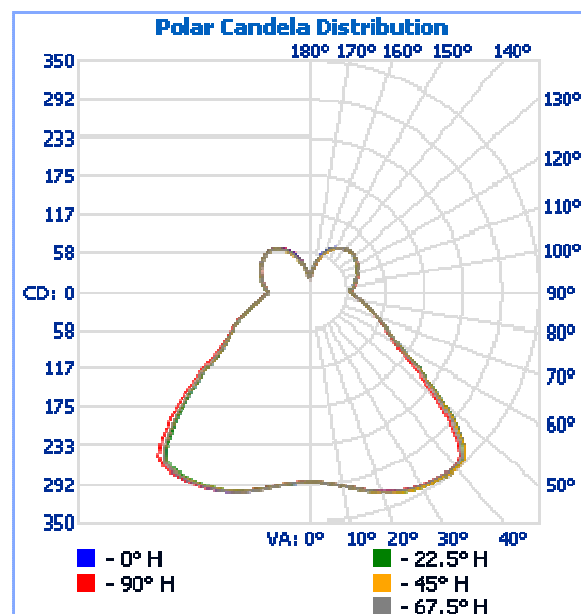
RESULTS OF TESTS

Photometric and Electrical Measurements – 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 (Lumens Per Watt)
APD.53.2							
CHI1208061220-001	Up	120.1	243.6	29.18	0.998	1662	56.96

Intensity (Candlepower) Summary at 25°C - Candelas

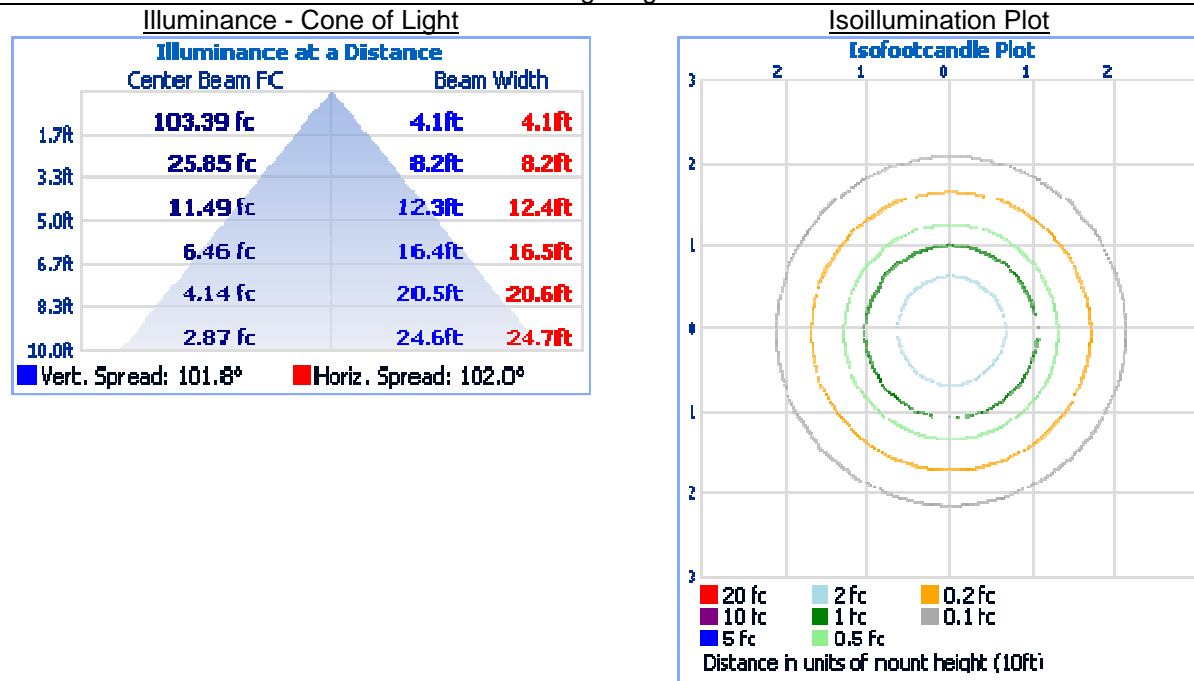
Angle	0	22.5	45	67.5	90
APD.53.2					
0	287	287	287	287	287
5	290	290	290	290	290
10	298	298	298	298	298
15	311	311	311	310	310
20	323	324	324	323	322
25	333	335	334	332	331
30	341	342	342	339	338
35	346	346	346	343	343
40	348	348	349	345	345
45	332	330	331	323	316
50	269	270	268	261	251
55	203	204	200	197	186
60	152	153	152	151	148
65	129	129	129	129	126
70	108	108	108	108	107
75	92	92	92	93	91
80	80	79	80	80	79
85	70	70	70	70	69
90	62	62	62	63	63
95	64	64	65	65	66
100	69	69	69	70	71
105	73	73	74	74	75
110	77	77	77	78	78
115	80	80	80	81	82
120	83	83	83	84	84
125	85	85	85	86	86
130	86	86	87	87	87
135	87	87	87	87	87
140	85	85	85	85	85
145	81	80	80	81	80
150	76	75	74	76	75
155	70	69	67	69	69
160	63	61	59	61	61
165	53	51	50	52	50
170	39	39	38	38	37
175	25	25	25	25	25
180	19	19	19	19	19



RESULTS OF TESTS (cont'd)

Illumination Plots

Model No.: APD.53.2
Mounting Height: 10 ft.



Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
	APD.53.2	
0-10	28.0	1.7
10-20	88.4	5.3
20-30	153.5	9.2
30-40	214.8	12.9
40-50	236.8	14.2
50-60	170.4	10.3
60-70	125.2	7.5
70-80	96.7	5.8
80-90	75.7	4.6
90-100	72.0	4.3
100-110	78.7	4.7
110-120	80.4	4.8
120-130	76.6	4.6
130-140	66.8	4.0
140-150	50.0	3.0
150-160	31.2	1.9
160-170	14.1	0.9
170-180	2.7	0.2



RESULTS OF TESTS (cont'd)

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
	APD.53.2	
0-30	269.9	16.2
0-40	484.7	29.2
0-60	892.0	53.7
60-90	297.6	17.9
0-90	1190	71.6
90-180	472.5	28.4
0-180	1662	100.0

Pictures (not to scale)



APD53.2 mounted on goniophotometer.

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:



Tim Quigley
Engineer
Lighting Division

Attachment: None

Report Reviewed By:



Jacki Swiernik
Staff Engineer
Lighting Division