



REPORT

545 E. ALGONQUIN ROAD ARLINGTON HEIGHTS, IL 60005

Project No. G100766137

Date: September 26, 2012

REPORT NO. 100766137CHI-001

TEST OF ONE PENDANT-MOUNT COMPACT FLUORESCENT LUMINAIRE

FIXTURE MODEL NO. APD.52
BALLAST MODEL NO. ADVANCE ICF-2S26-H1-LD

RENDERED TO

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.52. The sample was received by Intertek on September 4, 2012 in undamaged condition, and one sample was tested as received. The sample designation was CHI1209041744-014.

DATES OF TESTS: September 10, 2012



SUMMARY

Model No.:	APD.52
Description:	Pendant-mount compact fluorescent luminaire

Criteria	Result
Total Lumen Output	1639 Lumens
Total Power	29.29 W
Luminaire Efficacy	55.95
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 –CFL Products

Seasoning was performed in accordance with IESNA LM-66.

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

<u>Model No.</u>	<u>Total Hours</u>
APD.52	2

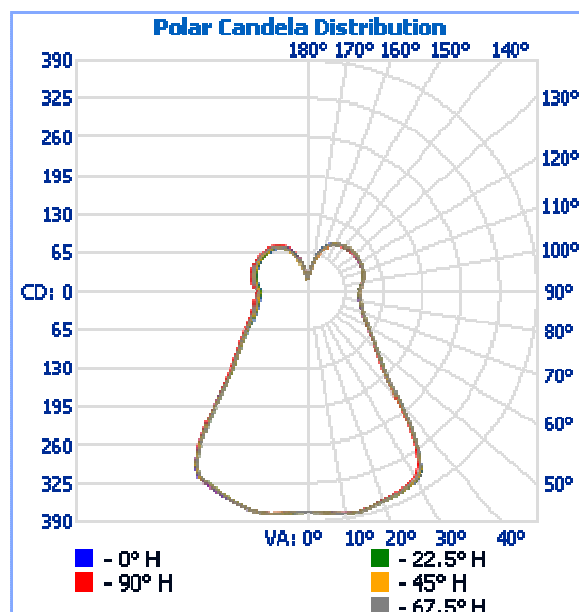
RESULTS OF TESTS

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.52							
CHI1209041744-014	Up	120.1	244.5	29.29	0.998	1639	55.95

Intensity (Candlepower) Summary at 25°C - Candelas

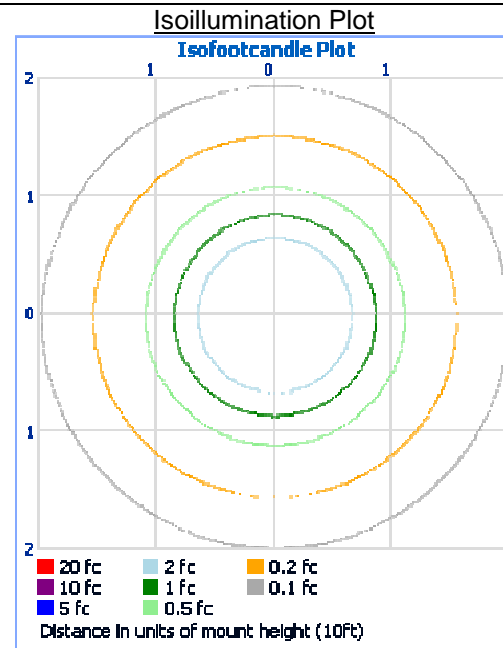
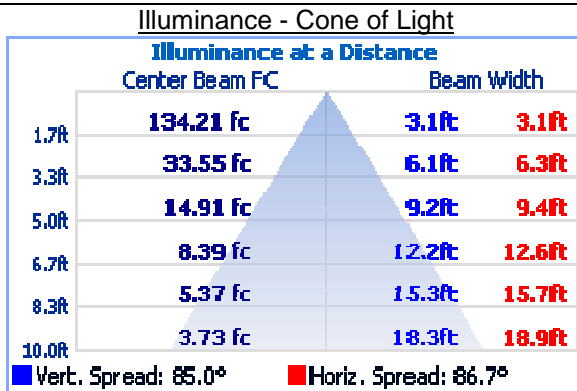
Angle	0	22.5	45	67.5	90
APD.52					
0	373	373	373	373	373
5	376	376	376	376	375
10	381	382	381	382	381
15	381	381	381	382	380
20	377	377	377	377	375
25	374	374	373	373	370
30	370	369	369	367	364
35	328	327	326	326	319
40	243	243	241	243	235
45	184	184	183	183	179
50	156	156	156	156	152
55	133	134	134	134	132
60	118	118	118	118	116
65	106	107	107	108	106
70	99	99	100	100	98
75	94	94	94	95	93
80	90	90	91	91	90
85	87	87	88	88	87
90	87	87	87	88	86
95	91	91	92	92	91
100	95	95	95	96	94
105	98	98	98	98	97
110	100	100	100	100	99
115	101	102	102	102	100
120	102	102	102	102	101
125	102	102	102	102	101
130	101	102	102	102	100
135	100	100	101	100	99
140	99	98	98	98	97
145	95	94	95	94	92
150	91	90	90	89	88
155	85	84	83	84	82
160	78	76	74	76	74
165	65	64	62	64	62
170	48	47	46	48	46
175	29	29	28	30	28
180	20	20	20	20	20



RESULTS OF TESTS (cont'd)

Illumination Plots

Model No.: APD.52
Mounting Height: 10 ft.



Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
	APD.52	
0-10	36.1	2.2
10-20	107.5	6.6
20-30	171.4	10.5
30-40	194.4	11.9
40-50	141.2	8.6
50-60	117.4	7.2
60-70	103.8	6.3
70-80	97.3	5.9
80-90	93.5	5.7
90-100	96.9	5.9
100-110	100.7	6.1
110-120	97.9	6.0
120-130	89.3	5.4
130-140	75.6	4.6
140-150	57.8	3.5
150-160	37.5	2.3
160-170	17.5	1.1
170-180	3.3	0.2

RESULTS OF TESTS (cont'd)Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
	APD.52	
0-30	315.0	19.2
0-40	509.4	31.1
0-60	767.9	46.9
60-90	294.5	18.0
0-90	1062	64.8
90-180	576.4	35.2
0-180	1639	100.0

Pictures (not to scale)

Model APD.52 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:

Report Reviewed By:

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