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## Indoor Distribution Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

**Prepared For**  
**Sonneman**  
Nicolas Carmichael  
106 Pierces Rd.  
Newburgh, NY 12550-9369

**Catalog Number**  
**2734**  
Order Number  
10977900  
Test Number  
1165576

Test Date

2015-10-06

Prepared By

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Approved By

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed white aluminum housing, upper white steel trim, frosted plastic enclosure  
**Lamp:** 36 white LEDs  
**Mounting:** Pendant  
**Ballast/Driver:** One ERP EBR015U-0350-42

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 5.00 in.  
Luminous Width: 5.000 in.

**Summary of Results**

Total Luminaire Output:	835.7 Lumens
Luminaire Efficacy:	58 lm/w
Maximum Candela:	301 Candela

**Electrical Data**

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1215 A
Power:	14.41 W
Power Factor:	0.989
Frequency:	60 Hz
Current THD:	12.9 %

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1215 A	14.41 W	0.989	60 Hz	12.9 %

### Summary of Results

#### Spacing Criteria

0-180: #N/A

90-270: #N/A

#### Total Lumen Output:

835.7 Lumens

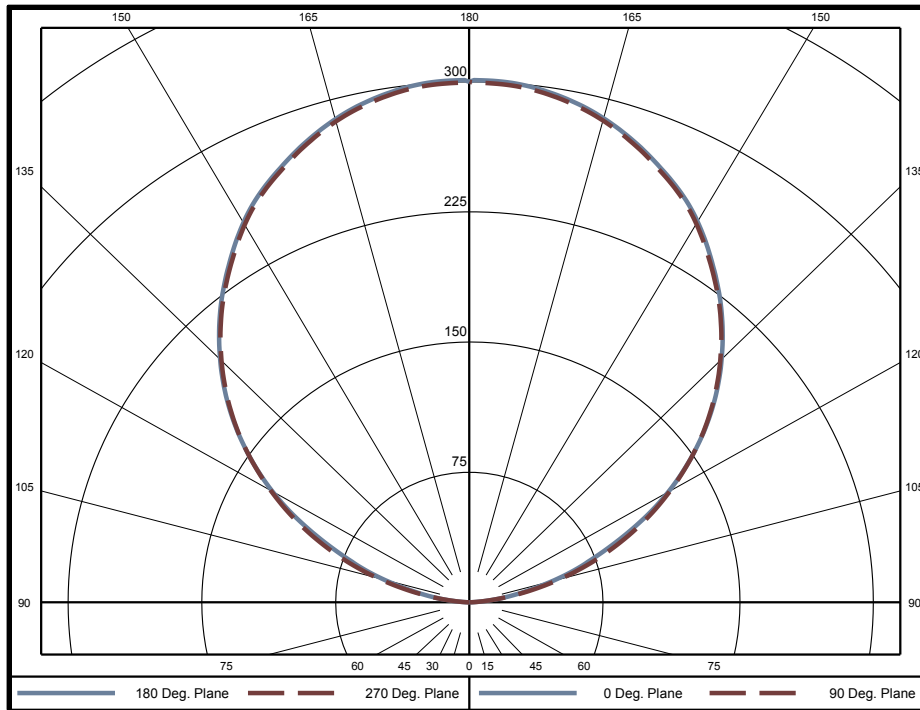
#### Luminaire Efficacy:

58.0 lm/w

#### Maximum Candela:

301 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	65.06	7.8%
5-10	0	0.0%	65-70	0	0.0%	125-130	71.63	8.6%
10-15	0	0.0%	70-75	0	0.0%	130-135	75.51	9.0%
15-20	0	0.0%	75-80	0	0.0%	135-140	76.80	9.2%
20-25	0	0.0%	80-85	0	0.0%	140-145	75.52	9.0%
25-30	0	0.0%	85-90	0	0.0%	145-150	71.81	8.6%
30-35	0	0.0%	90-95	2.00	0.2%	150-155	65.72	7.9%
35-40	0	0.0%	95-100	9.70	1.2%	155-160	57.05	6.8%
40-45	0	0.0%	100-105	20.91	2.5%	160-165	46.62	5.6%
45-50	0	0.0%	105-110	33.19	4.0%	165-170	34.57	4.1%
50-55	0	0.0%	110-115	45.10	5.4%	170-175	21.25	2.5%
55-60	0	0.0%	115-120	56.07	6.7%	175-180	7.16	0.9%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	836	100.0%



**Candela Tabulation**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	95	9.5	9.2	8.8	9.0	9.0	9.0	8.8	9.2	9.5	9.2	8.8	9.0	9.0	9.0	8.8
	100	26.7	28.2	27.4	27.7	28.6	27.7	27.4	28.2	26.7	28.2	27.4	27.7	28.6	27.7	27.4
	105	48.6	51.1	50.2	52.1	52.9	52.1	50.2	51.1	48.6	51.1	50.2	52.1	52.9	52.1	50.2
	110	72.5	75.3	75.6	77.9	78.4	77.9	75.6	75.3	72.5	75.3	75.6	77.9	78.4	77.9	75.6
	115	99.8	101.2	102.4	103.8	104.1	103.8	102.4	101.2	99.8	101.2	102.4	103.8	104.1	103.8	102.4
	120	128.1	127.6	128.1	129.0	129.1	129.0	128.1	127.6	128.1	127.6	128.1	129.0	129.1	129.0	128.1
	125	153.5	153.1	152.8	153.2	153.3	153.2	152.8	153.1	153.5	153.1	152.8	153.2	153.3	153.2	152.8
	130	177.0	176.4	175.9	176.0	176.2	176.0	175.9	176.4	177.0	176.4	175.9	176.0	176.2	176.0	175.9
	135	198.3	197.9	197.2	197.1	197.2	197.1	197.2	197.9	198.3	197.9	197.2	197.1	197.2	197.1	197.2
	140	218.2	217.9	217.0	216.9	217.0	216.9	217.0	217.9	218.2	217.9	217.0	216.9	217.0	216.9	217.0
	145	236.3	235.9	235.0	234.8	234.9	234.8	235.0	235.9	236.3	235.9	235.0	234.8	234.9	234.8	235.0
	150	253.6	253.0	252.1	252.0	252.1	252.0	252.1	253.0	253.6	253.0	252.1	252.0	252.1	252.0	253.0
	155	267.4	266.8	266.0	265.9	266.0	265.9	266.0	266.8	267.4	266.8	266.0	265.9	266.0	265.9	266.8
	160	279.0	278.4	277.6	277.5	277.6	277.5	277.6	278.4	279.0	278.4	277.6	277.5	277.6	277.5	278.4
	165	288.8	288.3	287.5	287.5	287.4	287.5	287.5	288.3	288.8	288.3	287.5	287.5	287.4	287.5	288.3
	170	295.9	295.3	294.5	294.4	294.5	294.4	294.5	295.3	295.9	295.3	294.5	294.4	294.5	294.4	295.3
	175	300.1	299.4	298.7	298.7	298.6	298.7	298.7	299.4	300.1	299.4	298.7	298.7	298.6	298.7	299.4
	180	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0