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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
United States

Catalog Number
2750-G
Order Number
11361882
Test Number
1268180

Test Date

2016-07-25

Prepared By

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Approved By

Edward Bush, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White Aluminum Formed Housing, White Inner Reflector, one MaxLED lamp (850 Lumens)
Lamp: One maxLED 76902 (850 Lumen) Lamp
Mounting: Pendant
Ballast/Driver: N/A

Luminaire



Luminaire Characteristics
Luminous Diameter: 8.00 in.

Summary of Results

Total Luminaire Output:	628.7 Lumens
Luminaire Efficacy:	70.6 lm/w
Maximum Candela:	512 Candela

Test Conditions

Test Temperature:	25.7 °C
Voltage:	120.1 VAC
Current:	0.07600 A
Power:	8.902 W
Power Factor:	0.966
Frequency:	60 Hz
Current THD:	15.6 %

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



Distribution - Goniophotometer

Distribution Test Conditions

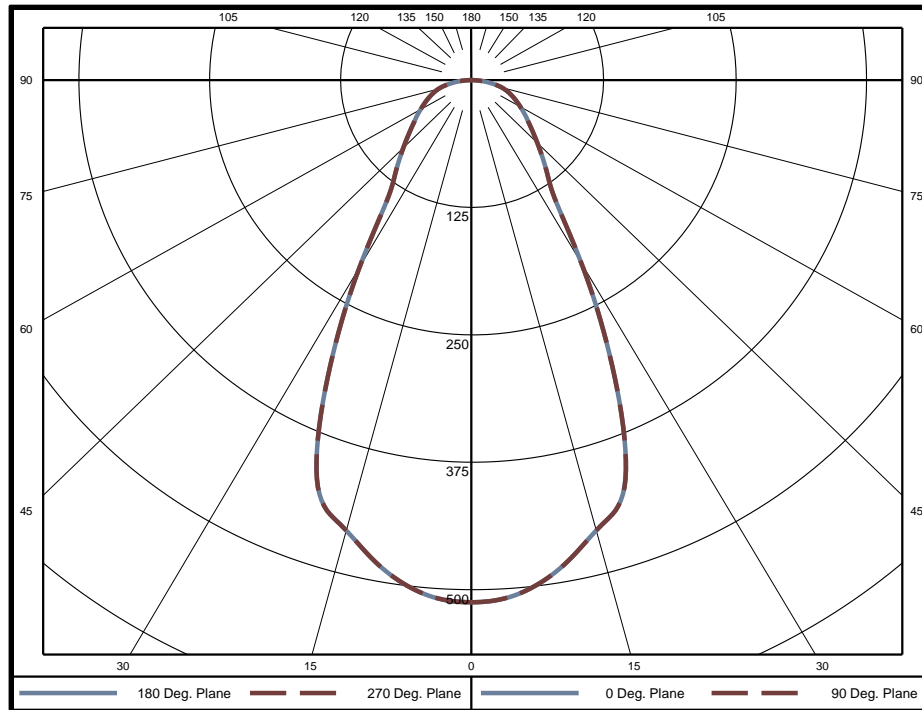
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	120.1 VAC	0.07600 A	8.902 W	0.966	60 Hz	15.6 %

Summary of Results

Spacing Criteria
 0-180: 0.90
 90-270: 0.90

Total Lumen Output: 628.7 Lumens
Luminaire Efficacy: 70.6 lm/w
Maximum Candela: 512 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	12.18	1.9%	60-65	24.52	3.9%	120-125	0	0.0%
5-10	35.51	5.6%	65-70	21.68	3.4%	125-130	0	0.0%
10-15	55.89	8.9%	70-75	18.51	2.9%	130-135	0	0.0%
15-20	73.21	11.6%	75-80	14.15	2.3%	135-140	0	0.0%
20-25	78.98	12.6%	80-85	8.37	1.3%	140-145	0	0.0%
25-30	67.06	10.7%	85-90	2.67	0.4%	145-150	0	0.0%
30-35	49.07	7.8%	90-95	0	0.0%	150-155	0	0.0%
35-40	40.06	6.4%	95-100	0	0.0%	155-160	0	0.0%
40-45	36.53	5.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	33.05	5.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	29.97	4.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	27.29	4.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	412	65.5%
0-60	539	85.7%
0-90	629	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal 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	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3	512.3
5	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4	506.4
10	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3	486.3
15	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7	457.7
20	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3
25	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9	322.9
30	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0
35	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5	134.5
40	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7
45	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
50	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
55	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
60	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
65	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
70	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
75	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
80	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9
85	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
90	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
95	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	0.0
100	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	0.0
105	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	0.0
110	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	0.0
115	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	0.0
120	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	0.0
125	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	0.0
130	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	0.0
135	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	0.0
140	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	0.0
145	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	0.0
150	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	0.0
155	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	0.0
160	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	0.0
165	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	0.0
170	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	0.0
175	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	0.0
180	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	0.0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

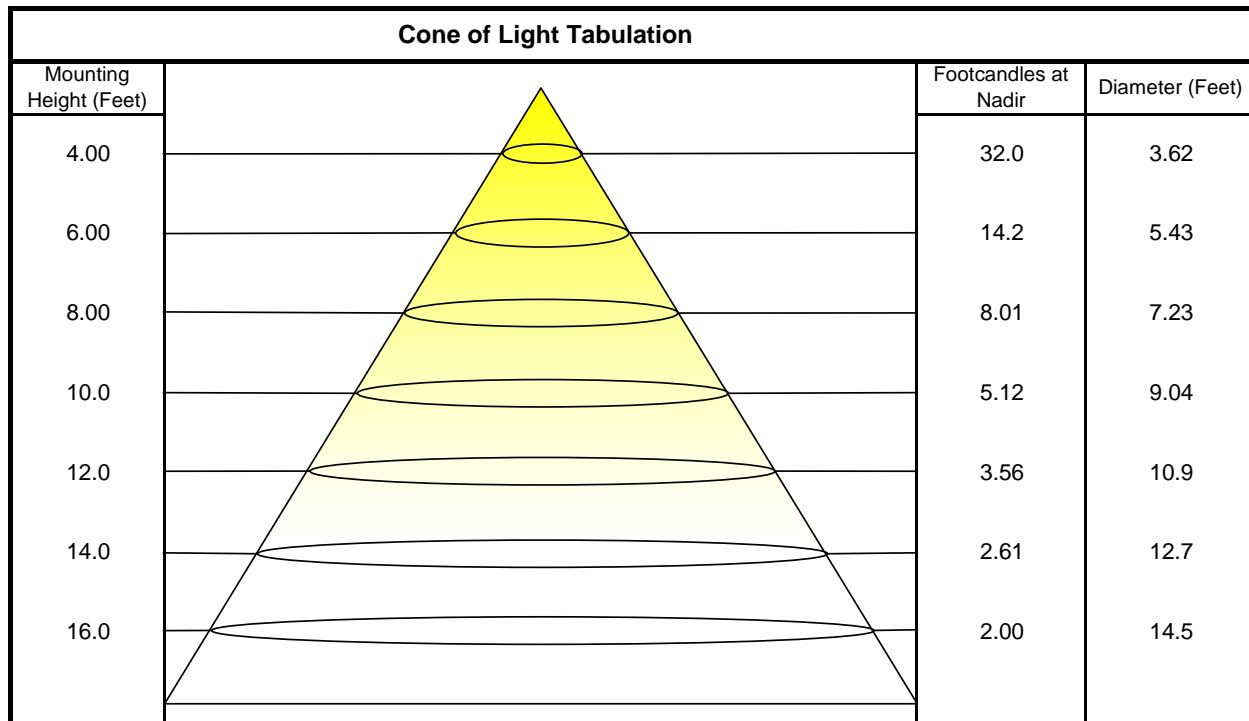
	0	45	90
0	15800	15800	15800
45	3908	3908	3908
55	3435	3435	3435
65	3396	3396	3396
75	3752	3752	3752
85	3537	3537	3537



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	748	748	748	748	731	731	731	731	699	699	699	669	669	669	642	642	642	629
1	695	669	646	626	678	655	634	616	629	612	596	605	591	578	582	571	561	549
2	644	601	565	535	629	590	557	529	568	540	517	548	525	505	530	511	494	482
3	600	544	501	467	585	535	495	463	517	483	455	500	472	448	485	461	440	428
4	560	497	450	415	547	489	446	412	474	437	407	460	428	402	447	420	397	385
5	524	456	409	374	512	450	405	372	437	398	368	426	391	365	415	385	361	349
6	493	422	374	340	482	416	371	339	406	366	336	396	360	333	387	355	331	320
7	464	392	345	312	454	387	342	311	378	338	309	370	334	307	362	330	305	294
8	438	365	320	288	429	361	318	287	354	314	286	346	311	284	340	307	283	273
9	415	342	298	268	407	339	296	267	332	293	266	326	290	265	320	288	264	254
10	394	322	278	250	386	319	277	249	313	275	249	307	272	248	302	270	247	237

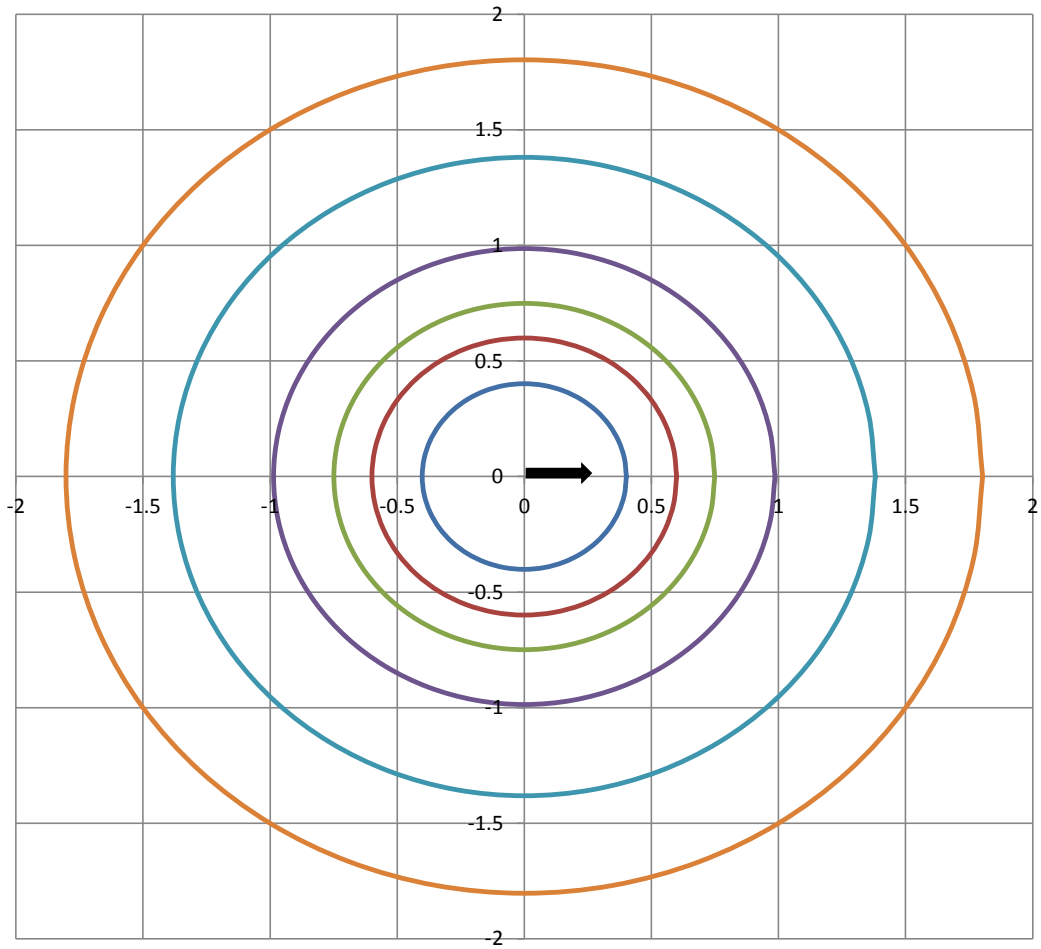
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	512.3 Candela
Central Cone Intensity:	510 Candela
Beam Flux:	297.3 Lumens
Beam Angle (0-180):	55.9 Degrees
Beam Angle (90-270):	55.9 Degrees
Field Angle (0-180):	124.0 Degrees
Field Angle (90-270):	124.0 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

