



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



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
2366
Order Number
10776086
Test Number
1053175

Test Date

2015-05-04

Prepared By

Javier Caban, Technician

Approved By

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White aluminum housing, frosted plastic enclosure
Lamp: 30 white upper LEDs and 15 white lower LEDs
Mounting: Surface - Wall
Ballast/Driver: One Eaglerise EEP60SE

Luminaire



Luminaire Characteristics

Luminous Length: 1.75 in.
Luminous Width: 5.500 in.
Luminous Height: 7.75 in.

Summary of Results

Total Luminaire Output: 813.2 Lumens
Luminaire Efficacy: 38.7 lm/w
Maximum Candela: 255 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.1836 A
Power: 21.03 W
Power Factor: 0.954
Frequency: 60 Hz
Current THD: 31.1 %

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
25.0 °C	120.0 VAC	0.1836 A	21.03 W	0.954	60 Hz	31.1 %

Summary of Results

Spacing Criteria

0-180: 0.63

90-270: 1.39

Total Lumen Output:

813.2 Lumens

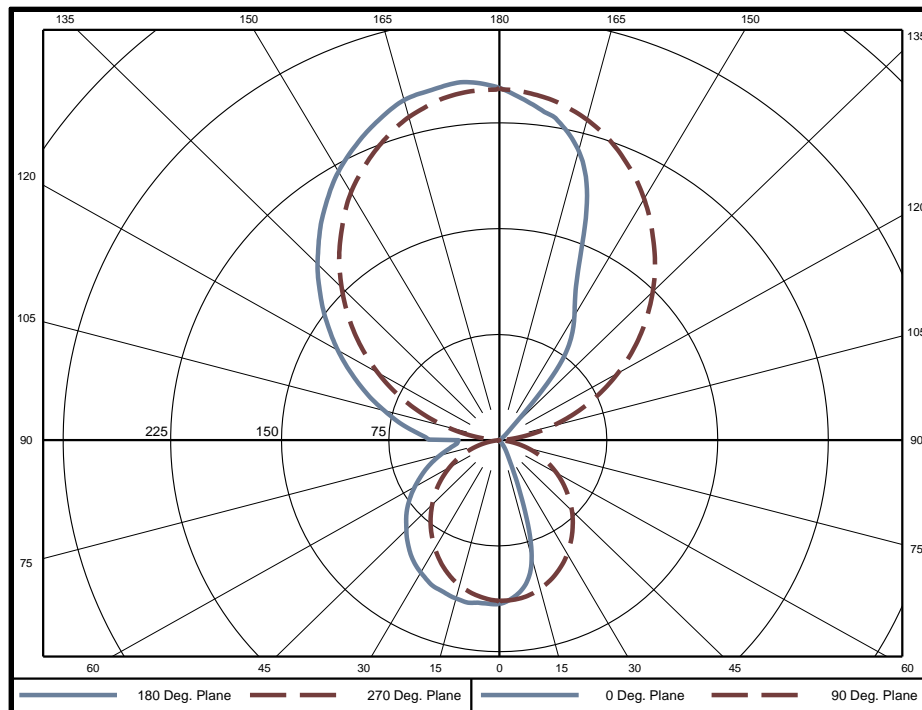
Luminaire Efficacy:

38.7 lm/w

Maximum Candela:

255 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	2.73	0.3%	60-65	14.76	1.8%	120-125	35.06	4.3%
5-10	8.04	1.0%	65-70	12.93	1.6%	125-130	39.16	4.8%
10-15	12.83	1.6%	70-75	10.87	1.3%	130-135	43.91	5.4%
15-20	16.43	2.0%	75-80	8.67	1.1%	135-140	47.88	5.9%
20-25	18.28	2.2%	80-85	6.57	0.8%	140-145	50.49	6.2%
25-30	19.24	2.4%	85-90	5.14	0.6%	145-150	50.08	6.2%
30-35	19.89	2.4%	90-95	9.57	1.2%	150-155	47.86	5.9%
35-40	20.09	2.5%	95-100	12.63	1.6%	155-160	43.84	5.4%
40-45	19.58	2.4%	100-105	16.83	2.1%	160-165	37.36	4.6%
45-50	18.66	2.3%	105-110	21.29	2.6%	165-170	28.24	3.5%
50-55	17.61	2.2%	110-115	25.98	3.2%	170-175	17.53	2.2%
55-60	16.36	2.0%	115-120	30.89	3.8%	175-180	5.95	0.7%

Zone	Lumens	% of Luminaire
0-40	118	14.5%
0-60	171	23.3%
0-90	249	30.6%
90-180	565	69.4%



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	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9
	5	111.7	111.6	112.5	113.3	113.5	114.9	116.7	116.6	116.1	116.4	115.5	114.2	112.5	111.9	111.3
	10	103.6	105.3	107.9	110.7	112.0	114.6	116.2	117.1	117.1	116.2	114.6	112.5	110.0	108.0	103.8
	15	84.8	91.2	99.6	105.7	108.8	112.4	114.7	116.6	116.0	115.1	113.1	109.8	106.4	102.7	87.5
	20	45.4	59.5	85.4	99.3	104.6	109.0	112.4	115.0	114.0	112.9	110.3	105.5	101.4	95.4	51.5
	25	17.9	24.2	59.4	91.5	99.3	104.6	109.0	111.9	112.0	109.7	106.3	100.8	95.3	86.5	20.3
	30	9.3	11.8	29.5	81.2	92.9	99.2	104.6	107.4	107.9	105.5	101.6	95.1	88.4	75.4	10.4
	35	4.5	6.6	14.3	68.2	85.8	93.1	99.4	102.3	103.1	100.7	96.3	89.0	81.1	61.2	5.6
	40	0.0	2.2	8.2	51.2	78.1	86.6	93.5	96.5	96.8	94.9	90.4	82.3	73.4	42.6	1.1
	45	0.0	0.0	4.1	31.3	70.1	79.8	86.9	89.9	89.7	88.2	83.7	75.5	65.2	23.9	0.0
	50	0.0	0.0	0.0	16.1	61.6	72.4	79.7	82.5	82.9	80.8	76.7	68.5	57.2	12.1	0.0
	55	0.0	0.0	0.0	8.4	53.1	65.1	72.0	75.0	75.2	73.0	69.1	61.0	48.7	6.4	0.0
	60	0.0	0.0	0.0	4.2	44.2	57.3	63.8	67.2	66.8	65.1	61.1	53.4	40.2	2.8	0.0
	65	0.0	0.0	0.0	1.1	35.6	49.3	55.7	58.9	58.4	57.1	53.0	45.5	32.0	0.1	0.0
	70	0.0	0.0	0.0	0.4	27.0	40.9	47.2	50.4	50.3	49.1	44.8	37.2	23.5	0.1	0.0
	75	0.0	0.0	0.0	0.3	18.2	32.2	38.7	42.2	42.2	40.9	36.4	28.8	15.3	0.0	0.0
	80	0.0	0.0	0.0	0.1	10.0	23.5	30.9	34.6	34.7	33.5	28.9	20.4	7.8	0.0	0.0
	85	0.0	0.0	0.0	0.0	3.2	15.9	24.0	28.2	29.3	27.4	22.4	13.4	1.8	0.0	0.0
	90	0.0	0.0	0.0	0.0	0.1	11.6	20.5	25.1	27.8	26.1	20.3	10.7	0.0	0.0	0.0
	95	0.0	0.0	0.0	0.9	5.4	22.8	42.2	53.6	55.7	56.4	45.2	25.8	7.1	0.9	0.0
	100	0.0	0.0	0.0	3.6	18.7	34.8	53.3	65.0	68.5	68.8	57.7	39.2	21.5	3.1	0.0
	105	0.0	0.0	0.0	7.6	35.6	50.7	66.3	77.8	81.3	82.9	72.2	55.8	38.7	5.9	0.0
	110	0.0	0.0	0.2	13.7	54.3	68.9	80.5	90.9	96.0	97.6	87.7	73.8	57.5	10.8	0.0
	115	0.0	0.0	0.3	31.7	73.3	87.3	96.7	104.6	111.0	112.4	103.9	92.9	77.2	28.2	0.1
	120	0.0	0.0	2.6	46.9	92.6	106.4	114.3	119.8	127.1	126.7	120.3	112.1	96.5	46.9	2.3
	125	0.0	0.7	7.8	63.0	111.8	125.3	131.7	136.5	143.0	142.4	136.9	130.8	115.7	62.6	7.5
	130	2.8	5.0	38.5	85.7	130.4	143.3	149.0	153.2	159.2	158.1	154.5	149.1	134.4	82.7	37.3
	135	8.3	15.0	67.2	114.6	148.4	160.8	166.1	169.5	175.3	173.9	171.3	166.4	152.8	112.0	69.2
	140	39.0	63.8	85.0	140.5	165.6	177.1	182.3	185.1	190.8	190.3	187.9	183.2	170.7	142.2	87.5
	145	82.6	88.0	104.4	161.9	182.0	192.8	197.4	199.9	205.7	205.1	202.9	198.7	187.2	166.6	107.1
	150	102.2	107.0	139.5	182.1	198.0	207.8	212.1	214.6	219.6	219.3	217.2	213.1	203.2	187.1	142.8
	155	124.5	137.1	178.2	199.4	212.2	221.0	225.1	227.0	231.0	230.8	228.8	224.9	216.2	204.0	182.4
	160	173.1	185.8	204.0	212.9	224.7	232.5	236.2	238.0	241.3	240.7	238.7	234.8	227.7	216.4	207.2
	165	210.8	214.9	221.2	226.3	234.7	241.3	244.8	246.4	249.9	248.8	246.5	243.0	237.6	229.6	224.2
	170	229.8	231.3	232.3	237.0	242.1	247.2	250.2	251.8	253.0	253.1	251.0	248.0	244.3	239.3	234.7
	175	239.9	241.6	242.8	244.5	246.8	249.8	252.2	253.5	254.9	253.7	252.3	250.0	248.0	245.9	244.5
	180	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7

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

Vertical Angle (Degrees)	0	45	90
	0	18500	18500
	45	0	6627
	55	0	4945
	65	0	3368
	75	0	1809
	85	0	340



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	834	834	834	834	749	749	749	749	590	590	590	445	445	445	311	311	311	249
1	757	722	690	661	678	648	622	598	512	493	477	386	374	363	270	263	257	203
2	689	629	580	539	616	566	525	489	448	419	394	338	319	303	237	226	216	170
3	628	553	495	449	561	498	449	409	395	360	331	299	276	256	211	196	184	144
4	575	489	427	379	513	441	388	346	351	312	282	267	241	220	189	172	159	125
5	527	435	371	324	471	393	338	297	314	274	243	240	212	190	171	153	139	109
6	485	390	326	281	434	353	298	257	283	242	212	217	189	167	155	137	123	97
7	448	352	289	245	401	319	264	226	256	216	186	197	169	148	142	124	110	86
8	416	319	258	216	372	289	236	199	233	194	165	181	152	132	131	113	99	78
9	387	291	232	192	347	264	213	177	214	175	148	166	138	118	121	103	90	71
10	361	266	209	172	324	242	192	159	197	159	133	154	126	107	113	95	82	65

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	7.18	3.90
6.00	3.19	5.85
8.00	1.80	7.80
10.0	1.15	9.75
12.0	0.798	11.7
14.0	0.586	13.6
16.0	0.449	15.6

Cone of Light Plot

