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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L061500308.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L061500308  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUEDATE] 6/10/2015  
 [MANUFAC] AIREY THOMPSON  
 [LUMCAT] 55LED2WWT8419X  
 [LUMINAIRE] 120"L. X 3-1/2"W. X 5"H. LED FIXTURE  
 [BALLASTCAT] SYLVANIA 73103-0 LED19T8L48/F/1X1HE/841/UNV  
 [BALLAST] INPUT: 120-277VAC, 0.16-0.07A, 50/60Hz OUTPUT: 18W, 60V, 0.29A  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [TEST CONDITIONS] CANDELA VALUES AND INPUT POWER ARE GENERATED FROM LIGHT LABORATORY L061500307  
 [MORE] BY USING LENGTH RATIO OF 2.5  
 [INPUT] 120VAC, 48.63W  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	48.63
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	10.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.08 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4925	4671	5742
55	4204	4969	5765
65	3252	5146	5523
75	1824	4918	4590
85	1492	3839	3094

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	1544	1544	1544	1544	1544	1544	1544	1544	1544	1544
<b>5</b>	1530	1530	1530	1530	1530	1530	1531	1531	1532	1532
<b>10</b>	1489	1489	1490	1490	1491	1492	1494	1497	1500	1503
<b>15</b>	1425	1425	1425	1426	1428	1432	1437	1442	1446	1447
<b>20</b>	1346	1346	1347	1349	1353	1359	1361	1356	1342	1328
<b>25</b>	1258	1258	1258	1262	1267	1264	1248	1229	1225	1232
<b>30</b>	1157	1157	1158	1162	1160	1137	1120	1125	1139	1155
<b>35</b>	1050	1049	1051	1053	1030	1011	1019	1036	1056	1080
<b>40</b>	936	935	937	927	898	905	924	948	978	1010
<b>45</b>	816	815	815	789	784	803	831	866	905	946
<b>50</b>	692	690	685	659	676	706	746	794	850	918
<b>55</b>	567	564	547	543	573	617	672	747	827	882
<b>60</b>	444	440	419	436	481	545	630	708	765	816
<b>65</b>	325	318	309	346	414	507	580	646	707	757
<b>70</b>	212	203	217	279	374	453	526	589	637	671
<b>75</b>	113	111	149	237	327	399	452	495	530	552
<b>80</b>	69	74	118	201	268	312	346	376	402	416
<b>85</b>	33	47	91	139	176	208	229	250	273	284
<b>90</b>	5	21	42	64	82	104	117	131	148	155
<b>95</b>	5	11	27	44	58	68	71	77	85	84
<b>100</b>	4	4	17	32	47	58	64	71	76	74
<b>105</b>	4	3	9	21	33	45	55	61	66	67
<b>110</b>	3	3	3	13	22	31	39	46	52	56
<b>115</b>	0	0	3	7	15	22	28	33	37	40
<b>120</b>	0	0	0	3	12	17	21	25	29	31
<b>125</b>	0	0	0	0	5	14	18	21	23	25
<b>130</b>	0	0	0	0	4	7	15	19	20	22
<b>135</b>	0	0	0	0	0	5	7	15	19	20
<b>140</b>	0	0	0	0	0	0	5	6	11	18
<b>145</b>	0	0	0	0	0	0	0	6	6	7
<b>150</b>	0	0	0	0	0	0	0	0	0	6
<b>155</b>	0	0	0	0	0	0	0	0	0	0
<b>160</b>	0	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0	0

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	1544	1544	1544	1544	1544	1544	1544	1544	1544
<b>5</b>	1533	1534	1535	1535	1536	1537	1537	1537	1539
<b>10</b>	1507	1511	1514	1517	1519	1521	1522	1523	1522
<b>15</b>	1444	1438	1431	1425	1421	1418	1418	1418	1417
<b>20</b>	1322	1324	1330	1337	1344	1352	1357	1361	1362
<b>25</b>	1245	1258	1271	1284	1295	1306	1315	1320	1322
<b>30</b>	1172	1191	1210	1229	1246	1262	1274	1282	1284
<b>35</b>	1105	1132	1158	1183	1205	1225	1240	1249	1253
<b>40</b>	1044	1077	1110	1145	1179	1211	1235	1251	1257
<b>45</b>	994	1049	1103	1151	1186	1212	1231	1242	1246
<b>50</b>	985	1034	1070	1101	1128	1150	1167	1178	1182
<b>55</b>	927	968	1005	1038	1066	1089	1106	1117	1120
<b>60</b>	864	907	944	974	998	1017	1031	1039	1041

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	799	831	856	875	890	902	910	915	915
<b>70</b>	697	719	735	748	757	764	768	770	770
<b>75</b>	570	582	593	600	605	607	609	608	606
<b>80</b>	428	436	442	446	448	448	448	446	442
<b>85</b>	291	296	300	301	301	300	298	295	292
<b>90</b>	159	161	162	161	159	156	152	148	145
<b>95</b>	82	80	76	72	67	62	56	51	48
<b>100</b>	72	67	63	57	50	44	37	31	28
<b>105</b>	66	63	59	55	49	43	37	32	30
<b>110</b>	58	57	55	52	48	43	38	34	32
<b>115</b>	41	44	46	47	45	42	38	35	34
<b>120</b>	32	32	31	29	26	24	23	22	21
<b>125</b>	26	27	26	25	23	21	19	17	15
<b>130</b>	23	23	23	23	22	20	19	18	17
<b>135</b>	21	22	22	21	21	20	20	19	18
<b>140</b>	20	21	21	21	21	21	20	20	20
<b>145</b>	12	17	21	21	22	22	21	21	21
<b>150</b>	6	6	8	11	14	17	18	20	20
<b>155</b>	0	6	6	6	7	7	7	7	7
<b>160</b>	0	0	0	0	0	0	0	0	0
<b>165</b>	0	0	0	0	0	0	0	0	0
<b>170</b>	0	0	0	0	0	0	0	0	0
<b>175</b>	0	0	0	0	0	0	0	0	0
<b>180</b>	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	548.31	N.A.	11.10
0-30	1133.39	N.A.	22.90
0-40	1832.4	N.A.	37.00
0-60	3345.49	N.A.	67.60
0-80	4504.66	N.A.	91.00
0-90	4761.89	N.A.	96.20
10-90	4616.43	N.A.	93.30
20-40	1284.09	N.A.	25.90
20-50	2044.43	N.A.	41.30
40-70	2181.04	N.A.	44.10
60-80	1159.17	N.A.	23.40
70-80	491.22	N.A.	9.90
80-90	257.23	N.A.	5.20
90-110	125.69	N.A.	2.50
90-120	154.93	N.A.	3.10
90-130	170.29	N.A.	3.40
90-150	186.87	N.A.	3.80
90-180	188.32	N.A.	3.80
110-180	62.63	N.A.	1.30
0-180	4950.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	145.46
10-20	402.86
20-30	585.08
30-40	699.01
40-50	760.34
50-60	752.75
60-70	667.95
70-80	491.22
80-90	257.23
90-100	79.97
100-110	45.73
110-120	29.24
120-130	15.35
130-140	10.39
140-150	6.20
150-160	1.45
160-170	0.00
170-180	0.00

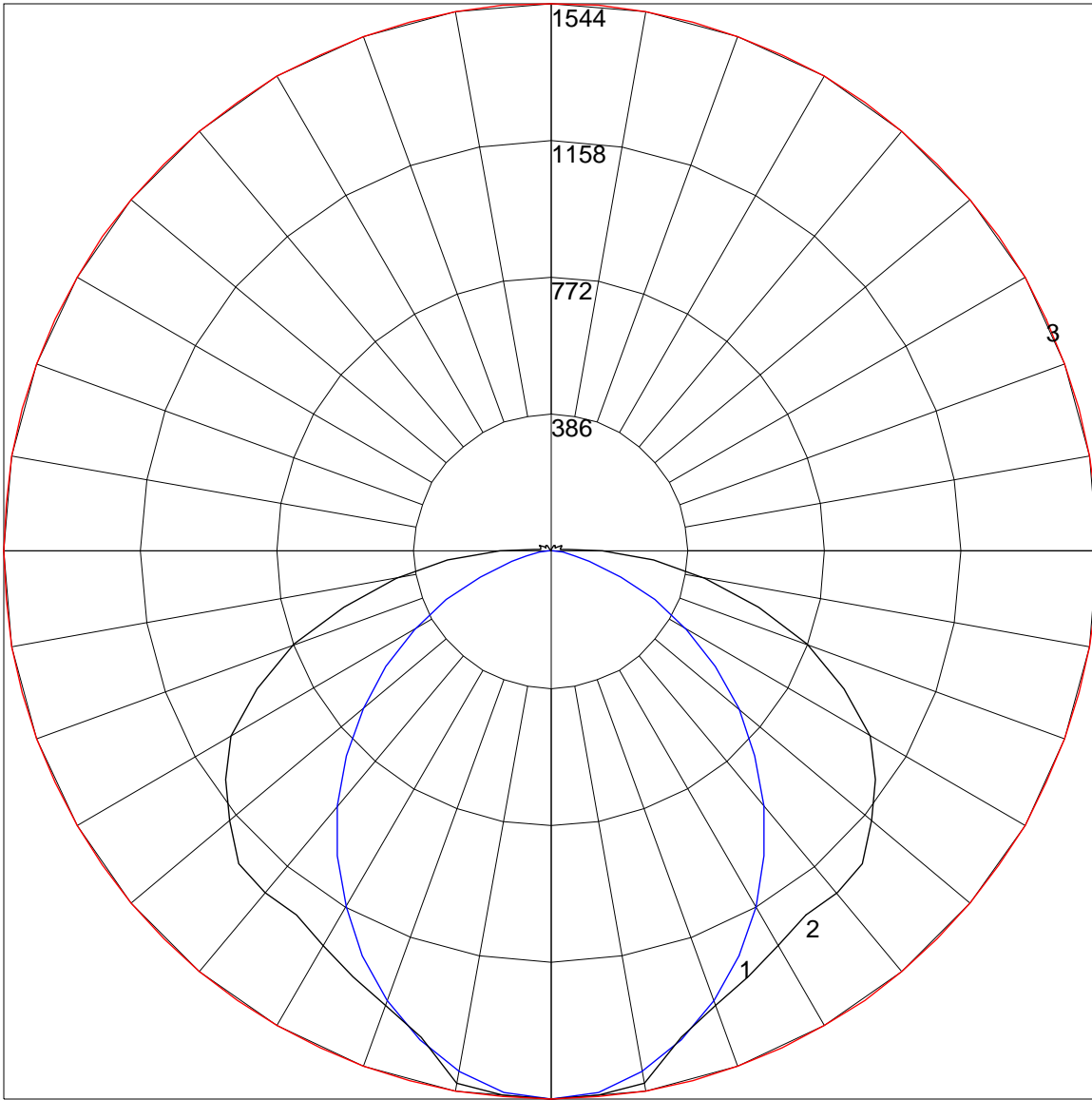
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30		10
0	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	106	100	95	91	91	103	97	93	89	92	89	85	88	85	82	84	81	79	76
2	95	86	78	72	72	92	84	77	71	79	74	68	76	71	66	72	68	64	62
3	86	75	66	59	59	83	73	65	58	69	62	56	66	60	55	63	58	53	51
4	79	66	56	49	49	76	64	55	49	61	54	48	58	52	46	56	50	45	43
5	72	59	49	42	42	70	57	48	42	55	47	41	52	45	40	50	44	39	37
6	67	53	43	36	36	64	51	43	36	49	41	35	47	40	35	45	39	34	32
7	62	48	38	32	32	60	47	38	32	45	37	31	43	36	31	41	35	30	28
8	57	43	35	29	29	56	43	34	28	41	33	28	39	32	27	38	32	27	25
9	54	40	31	26	26	52	39	31	25	38	30	25	36	30	25	35	29	24	22
10	50	37	29	23	23	49	36	28	23	35	28	23	34	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 1544 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)