



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AUL-30L-S-840-R16AC.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LED-12626  
 [TESTLAB] LSI INDUSTRIES, INC.  
 [ISSUEDATE] 05/25/21  
 [TESTDATE] 03/18/21  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] AUL-30L-S-840-R16AC  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Interior  
 [SEARCH\_COLORTEMP] 4000

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	30316
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	195
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.38
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.30 ft (Diameter)
Luminous Width (90-270)	1.30 ft (Diameter)
Luminous Height	0.70 ft



**AUL R16**

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	42559	41254	40003
55	31018	31118	31346
65	23608	24050	24042
75	9588	9597	9632
85	2904	2904	2798

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	10824	10824	10824	10824	10824
2.5	10889	10874	10848	10834	10829
5.0	11275	11267	11143	11015	10989
7.5	11746	11730	11598	11439	11311
10.0	12197	12136	12103	11948	11904
12.5	12531	12525	12454	12399	12443
15.0	12753	12745	12714	12623	12669
17.5	12797	12827	12754	12746	12720
20.0	12667	12656	12669	12641	12616
22.5	12196	12212	12186	12175	12137
25.0	11793	11753	11717	11676	11660
27.5	11426	11385	11369	11312	11265
30.0	10968	10926	10927	10992	11016
32.5	10490	10451	10487	10570	10580
35.0	9531	9586	9659	9678	9720
37.5	8166	8261	8306	8274	8274
40.0	7156	7175	7149	7076	6989
42.5	6650	6598	6507	6396	6354
45.0	6261	6169	6069	5991	5885
47.5	5888	5800	5677	5611	5546
50.0	5314	5336	5223	5151	5138
52.5	4783	4801	4753	4692	4664
55.0	4346	4334	4360	4406	4392
57.5	4068	4053	4082	4113	4132
60.0	3696	3688	3719	3768	3778
62.5	3336	3344	3381	3398	3396
65.0	3042	3068	3099	3105	3098
67.5	2740	2753	2772	2758	2763
70.0	2307	2274	2276	2271	2266
72.5	1655	1617	1599	1612	1607
75.0	1090	1091	1091	1092	1095
77.5	806	815	828	820	827
80.0	583	592	598	596	591
82.5	387	392	398	395	387
85.0	276	278	276	270	266
87.5	222	224	222	217	214
90.0	197	198	198	195	193
92.5	182	182	183	183	182
95.0	198	199	195	195	195
97.5	226	227	227	225	221
100.0	219	221	224	229	230
102.5	202	204	208	212	213
105.0	205	207	212	215	215
107.5	209	210	214	215	216
110.0	204	203	205	208	208
112.5	192	191	193	195	196
115.0	181	180	182	185	186
117.5	172	172	175	178	179
120.0	164	165	169	172	173
122.5	158	158	162	166	168
125.0	151	153	156	161	162
127.5	149	150	154	158	159
130.0	148	149	153	158	159
132.5	148	149	153	157	158

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	143	144	148	153	155
<b>137.5</b>	136	138	141	146	148
<b>140.0</b>	131	132	134	139	141
<b>142.5</b>	127	127	129	133	136
<b>145.0</b>	122	122	125	129	131
<b>147.5</b>	117	117	121	124	126
<b>150.0</b>	113	112	116	119	121
<b>152.5</b>	108	106	111	113	115
<b>155.0</b>	103	102	106	107	109
<b>157.5</b>	99	98	102	103	105
<b>160.0</b>	96	95	98	99	100
<b>162.5</b>	94	93	94	97	97
<b>165.0</b>	91	91	91	94	94
<b>167.5</b>	89	89	90	91	92
<b>170.0</b>	87	88	88	88	89
<b>172.5</b>	85	85	84	83	83
<b>175.0</b>	78	79	79	77	77
<b>177.5</b>	72	72	73	72	73
<b>180.0</b>	65	65	65	65	65

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4666.35	N.A.	15.40
0-30	10089.35	N.A.	33.30
0-40	15921.04	N.A.	52.50
0-60	24589.46	N.A.	81.10
0-80	28918.74	N.A.	95.40
0-90	29267.87	N.A.	96.50
10-90	28174.19	N.A.	92.90
20-40	11254.68	N.A.	37.10
20-50	15970.45	N.A.	52.70
40-70	11692.00	N.A.	38.60
60-80	4329.28	N.A.	14.30
70-80	1305.71	N.A.	4.30
80-90	349.13	N.A.	1.20
90-110	446.24	N.A.	1.50
90-120	629.63	N.A.	2.10
90-130	771.93	N.A.	2.50
90-150	965.01	N.A.	3.20
90-180	1048.39	N.A.	3.50
110-180	602.15	N.A.	2.00
0-180	30316.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1093.68
10-20	3572.67
20-30	5422.99
30-40	5831.69
40-50	4715.77
50-60	3952.66
60-70	3023.57
70-80	1305.71
80-90	349.13
90-100	222.25
100-110	223.99
110-120	183.38
120-130	142.31
130-140	113.97
140-150	79.11
150-160	49.27
160-170	26.35
170-180	7.77

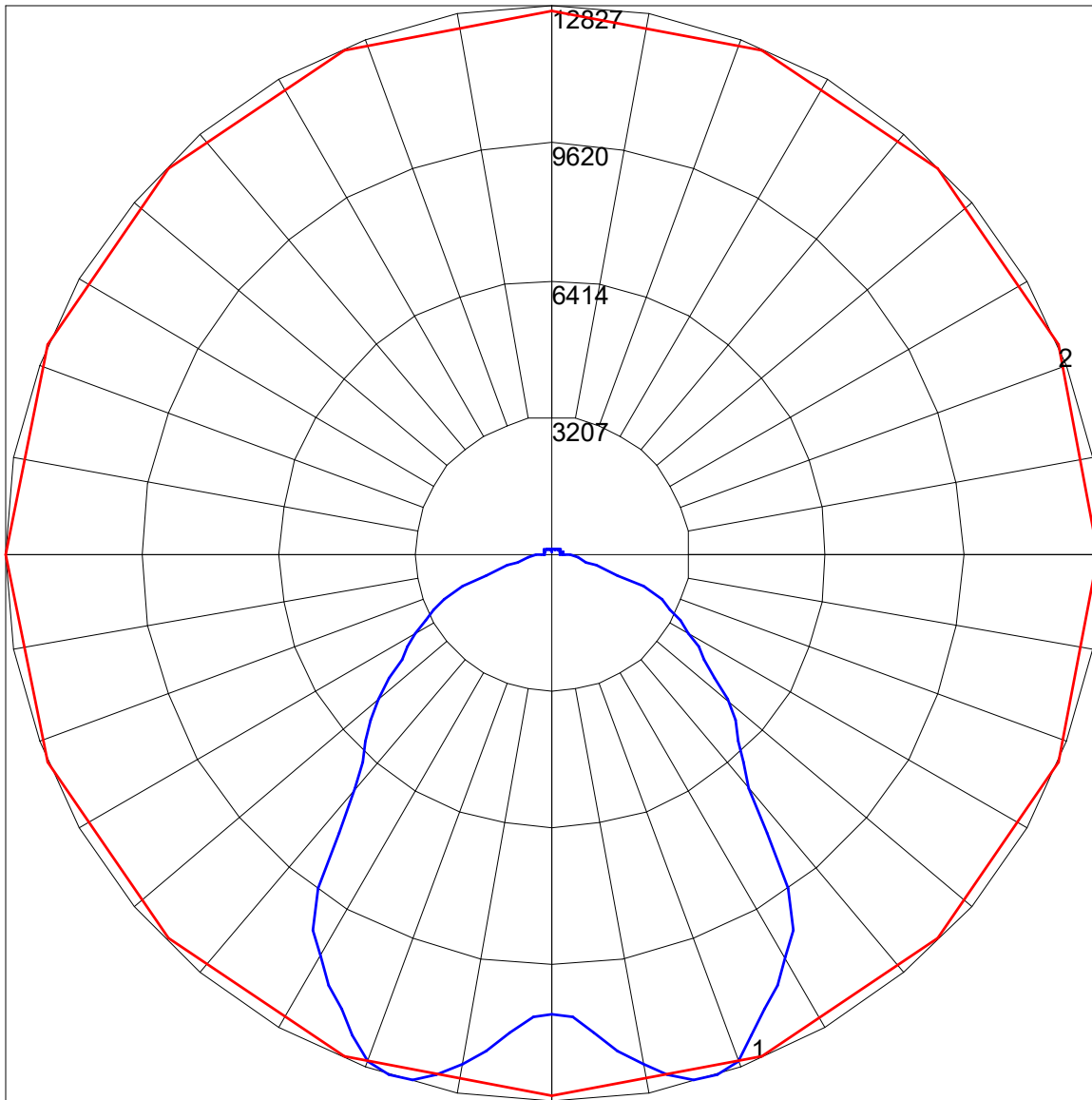
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	109	105	101	97	106	102	99	96	97	95	92	93	91	89	89	87	85	83
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	71
3	92	82	75	69	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	85	74	65	59	82	72	64	59	69	63	57	66	61	56	64	59	55	53
5	78	66	58	52	76	65	57	51	62	56	50	60	54	49	58	53	49	47
6	73	60	52	46	70	59	51	45	57	50	45	55	49	44	53	48	43	41
7	67	55	46	41	66	54	46	40	52	45	40	50	44	39	49	43	39	37
8	63	50	42	37	61	49	42	36	48	41	36	46	40	36	45	39	35	33
9	59	46	38	33	57	46	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	33	29	28

POLAR GRAPH



Maximum Candela = 12827 Located At Horizontal Angle = 22.5, Vertical Angle = 17.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)