



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AUL-18L-S-830-R16AC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-12592
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 05/25/21
[TEST DATE] 03/11/21
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] AUL-18L-S-830-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] 3000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16823
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	111
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	23166	22799	22588
55	17393	17265	17322
65	13154	13193	13325
75	5577	5331	5243
85	1589	1567	1589

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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	6038	6038	6038	6038	6038
2.5	6058	6069	6052	6043	6041
5.0	6266	6245	6201	6169	6136
7.5	6528	6488	6467	6398	6371
10.0	6817	6776	6725	6665	6697
12.5	7004	6991	6976	6950	6938
15.0	7122	7075	7094	7093	7075
17.5	7163	7098	7140	7132	7138
20.0	7042	7028	7056	7055	7066
22.5	6810	6808	6792	6782	6775
25.0	6543	6533	6512	6494	6506
27.5	6339	6335	6314	6299	6298
30.0	6120	6110	6096	6086	6112
32.5	5794	5817	5829	5819	5848
35.0	5306	5290	5331	5347	5362
37.5	4591	4549	4580	4602	4594
40.0	3987	3954	3966	3945	3929
42.5	3647	3647	3608	3566	3562
45.0	3408	3424	3354	3303	3323
47.5	3202	3210	3169	3101	3100
50.0	2957	2938	2915	2854	2818
52.5	2670	2661	2624	2599	2583
55.0	2437	2449	2419	2411	2427
57.5	2260	2265	2268	2263	2262
60.0	2053	2049	2071	2066	2068
62.5	1856	1861	1870	1873	1876
65.0	1695	1696	1700	1713	1717
67.5	1510	1515	1518	1532	1522
70.0	1243	1252	1254	1241	1247
72.5	905	911	896	878	873
75.0	634	628	606	598	596
77.5	456	453	451	452	456
80.0	326	319	323	326	329
82.5	217	215	215	217	217
85.0	151	150	149	150	151
87.5	121	121	121	120	121
90.0	105	106	106	106	107
92.5	99	100	100	100	101
95.0	109	110	109	108	108
97.5	123	123	123	123	124
100.0	118	116	120	125	126
102.5	113	113	116	118	119
105.0	114	115	117	119	120
107.5	116	117	118	120	121
110.0	114	114	115	117	119
112.5	106	107	108	110	112
115.0	99	100	102	104	106
117.5	94	96	97	99	100
120.0	91	92	94	95	96
122.5	87	89	90	91	92
125.0	84	85	87	88	88
127.5	83	84	85	86	87
130.0	84	84	86	86	87
132.5	84	84	85	86	86

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CANDELA TABULATION - (Cont.)

135.0	81	81	82	83	84
137.5	78	77	78	79	80
140.0	74	74	75	76	76
142.5	72	72	72	73	72
145.0	69	69	69	70	69
147.5	67	67	67	67	67
150.0	65	64	64	64	64
152.5	61	61	61	61	61
155.0	59	58	58	59	58
157.5	56	56	56	57	56
160.0	53	54	54	55	55
162.5	52	52	53	54	54
165.0	50	50	52	53	53
167.5	48	49	51	52	52
170.0	46	48	49	50	51
172.5	44	45	47	48	49
175.0	41	42	44	46	47
177.5	38	38	41	42	43
180.0	37	37	37	37	37

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2604.37	N.A.	15.50
0-30	5623.41	N.A.	33.40
0-40	8855.39	N.A.	52.60
0-60	13660.07	N.A.	81.20
0-80	16051.59	N.A.	95.40
0-90	16242.7	N.A.	96.60
10-90	15632.99	N.A.	92.90
20-40	6251.02	N.A.	37.20
20-50	8864.52	N.A.	52.70
40-70	6473.98	N.A.	38.50
60-80	2391.53	N.A.	14.20
70-80	722.23	N.A.	4.30
80-90	191.11	N.A.	1.10
90-110	245.57	N.A.	1.50
90-120	348.08	N.A.	2.10
90-130	426.85	N.A.	2.50
90-150	533.81	N.A.	3.20
90-180	580.16	N.A.	3.40
110-180	334.59	N.A.	2.00
0-180	16822.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	609.72
10-20	1994.65
20-30	3019.05
30-40	3231.98
40-50	2613.5
50-60	2191.18
60-70	1669.3
70-80	722.23
80-90	191.11
90-100	121.45
100-110	124.13
110-120	102.50
120-130	78.77
130-140	63.16
140-150	43.80
150-160	27.30
160-170	14.72
170-180	4.33

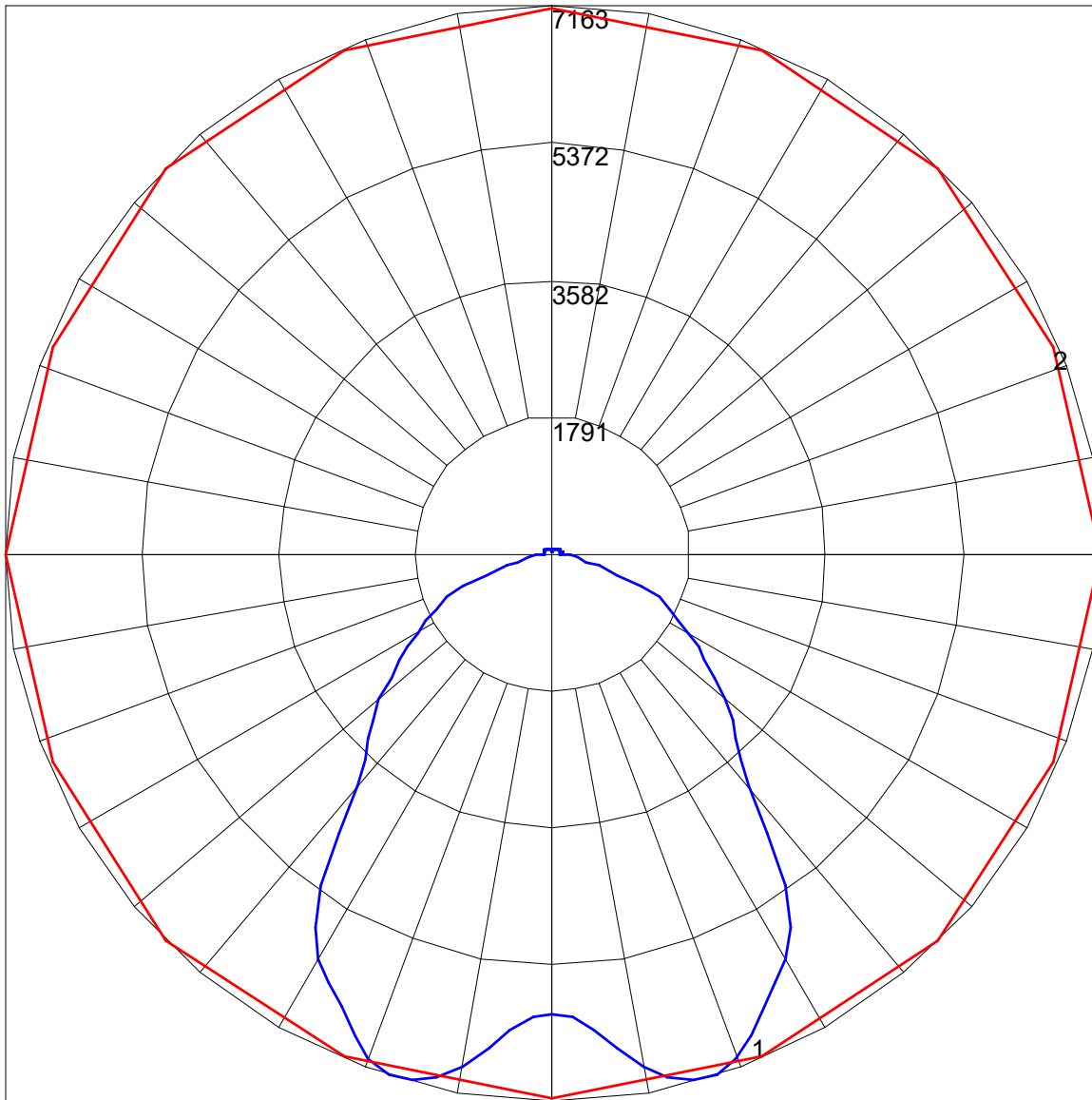
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	68	77	71	66	74	69	65	71	67	63	61
4	85	74	65	59	82	72	64	59	69	63	57	67	61	56	64	59	55	53
5	78	66	58	52	76	65	57	51	63	56	50	60	54	50	58	53	49	47
6	73	60	52	46	71	59	51	45	57	50	45	55	49	44	53	48	43	41
7	68	55	47	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	58	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 = 7163 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)