



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : XIRR-S-LED-18-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8211  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]10/12/16  
[TEST DATE]10/12/16  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]XIRR-S-LED-18-35  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17324
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	168.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.13 ft (Diameter)
Luminous Width (90-270)	1.13 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	61275	61505	61719
55	55283	55528	55774
65	48868	49175	49380
75	40044	40337	40128
85	23833	23584	24205

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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	6856	6856	6856	6856	6856
2.5	6866	6866	6867	6867	6867
5.0	6852	6852	6853	6852	6853
7.5	6815	6815	6814	6815	6816
10.0	6755	6756	6754	6756	6756
12.5	6671	6674	6675	6677	6678
15.0	6569	6568	6575	6578	6579
17.5	6441	6442	6451	6458	6459
20.0	6299	6302	6312	6317	6321
22.5	6139	6143	6149	6159	6165
25.0	5961	5965	5971	5984	5982
27.5	5764	5768	5775	5783	5787
30.0	5548	5553	5561	5569	5574
32.5	5315	5321	5329	5331	5329
35.0	5068	5074	5082	5085	5083
37.5	4812	4817	4820	4823	4826
40.0	4550	4550	4553	4562	4565
42.5	4272	4278	4287	4298	4300
45.0	4005	4004	4020	4031	4034
47.5	3738	3731	3746	3757	3766
50.0	3458	3464	3479	3489	3499
52.5	3193	3199	3206	3223	3220
55.0	2931	2936	2944	2953	2957
57.5	2673	2678	2686	2681	2685
60.0	2419	2423	2425	2426	2428
62.5	2168	2166	2168	2174	2177
65.0	1909	1913	1921	1926	1929
67.5	1666	1658	1671	1682	1684
70.0	1416	1420	1431	1437	1444
72.5	1183	1187	1191	1202	1198
75.0	958	961	965	970	960
77.5	742	745	747	741	743
80.0	539	541	539	537	539
82.5	355	353	351	353	354
85.0	192	193	190	194	195
87.5	64	66	69	68	71
90.0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2503.44	N.A.	14.50
0-30	5251.34	N.A.	30.30
0-40	8424.43	N.A.	48.60
0-60	14158.37	N.A.	81.70
0-80	17083.87	N.A.	98.60
0-90	17323.88	N.A.	100.00
10-90	16672.97	N.A.	96.20
20-40	5921.00	N.A.	34.20
20-50	9020.73	N.A.	52.10
40-70	7635.53	N.A.	44.10
60-80	2925.5	N.A.	16.90
70-80	1023.91	N.A.	5.90
80-90	240.01	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	17323.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	650.92
10-20	1852.52
20-30	2747.9
30-40	3173.09
40-50	3099.74
50-60	2634.2
60-70	1901.6
70-80	1023.91
80-90	240.01
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

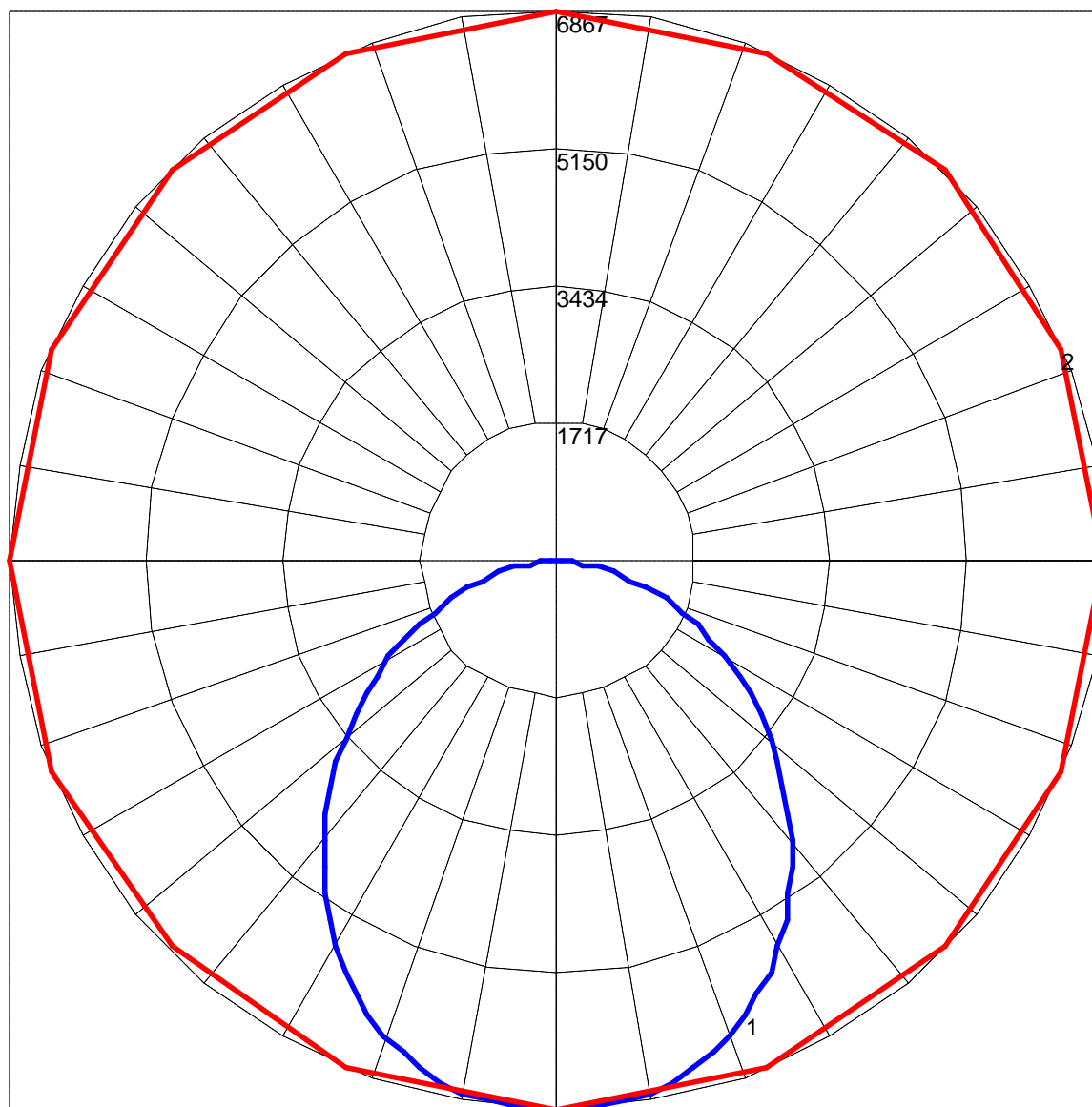
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 6867 Located At Horizontal Angle = 45, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)