



IES INDOOR REPORT
PHOTOMETRIC FILENAME : XIRR-S-LED-18-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8198
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]10/07/16
[TEST DATE]10/07/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XIRR-S-LED-18-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	167.4
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	63555	63739	63876
55	57301	57528	57697
65	50583	50839	51018
75	41382	41591	41298
85	22591	23584	24329

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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	7110	7110	7110	7110	7110
2.5	7121	7121	7121	7122	7123
5.0	7106	7106	7107	7107	7106
7.5	7066	7067	7068	7066	7067
10.0	7005	7004	7004	7005	7005
12.5	6921	6916	6921	6921	6923
15.0	6811	6810	6816	6817	6818
17.5	6679	6681	6687	6692	6693
20.0	6532	6535	6542	6548	6549
22.5	6367	6369	6372	6379	6385
25.0	6182	6185	6189	6197	6203
27.5	5978	5982	5985	5989	5991
30.0	5755	5759	5763	5761	5757
32.5	5514	5518	5522	5520	5516
35.0	5257	5263	5261	5258	5262
37.5	4992	4998	4989	4993	4997
40.0	4720	4720	4718	4722	4726
42.5	4431	4431	4443	4447	4452
45.0	4154	4153	4166	4171	4175
47.5	3877	3869	3881	3894	3899
50.0	3586	3591	3597	3610	3607
52.5	3311	3316	3322	3328	3332
55.0	3038	3044	3050	3049	3059
57.5	2770	2776	2782	2774	2777
60.0	2506	2511	2505	2509	2512
62.5	2245	2245	2244	2248	2250
65.0	1976	1981	1986	1991	1993
67.5	1724	1716	1721	1731	1739
70.0	1465	1469	1472	1482	1477
72.5	1224	1227	1230	1233	1235
75.0	990	992	995	993	988
77.5	765	767	764	762	762
80.0	554	556	553	550	550
82.5	354	355	357	359	359
85.0	182	183	190	192	196
87.5	58	60	62	65	67
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2595.43	N.A.	14.50
0-30	5443.13	N.A.	30.40
0-40	8730.44	N.A.	48.70
0-60	14668.58	N.A.	81.80
0-80	17688.42	N.A.	98.70
0-90	17928.82	N.A.	100.00
10-90	17253.82	N.A.	96.20
20-40	6135.01	N.A.	34.20
20-50	9346.22	N.A.	52.10
40-70	7903.81	N.A.	44.10
60-80	3019.84	N.A.	16.80
70-80	1054.16	N.A.	5.90
80-90	240.40	N.A.	1.30
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	17928.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	675.00
10-20	1920.43
20-30	2847.7
30-40	3287.32
40-50	3211.21
50-60	2726.92
60-70	1965.68
70-80	1054.16
80-90	240.40
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

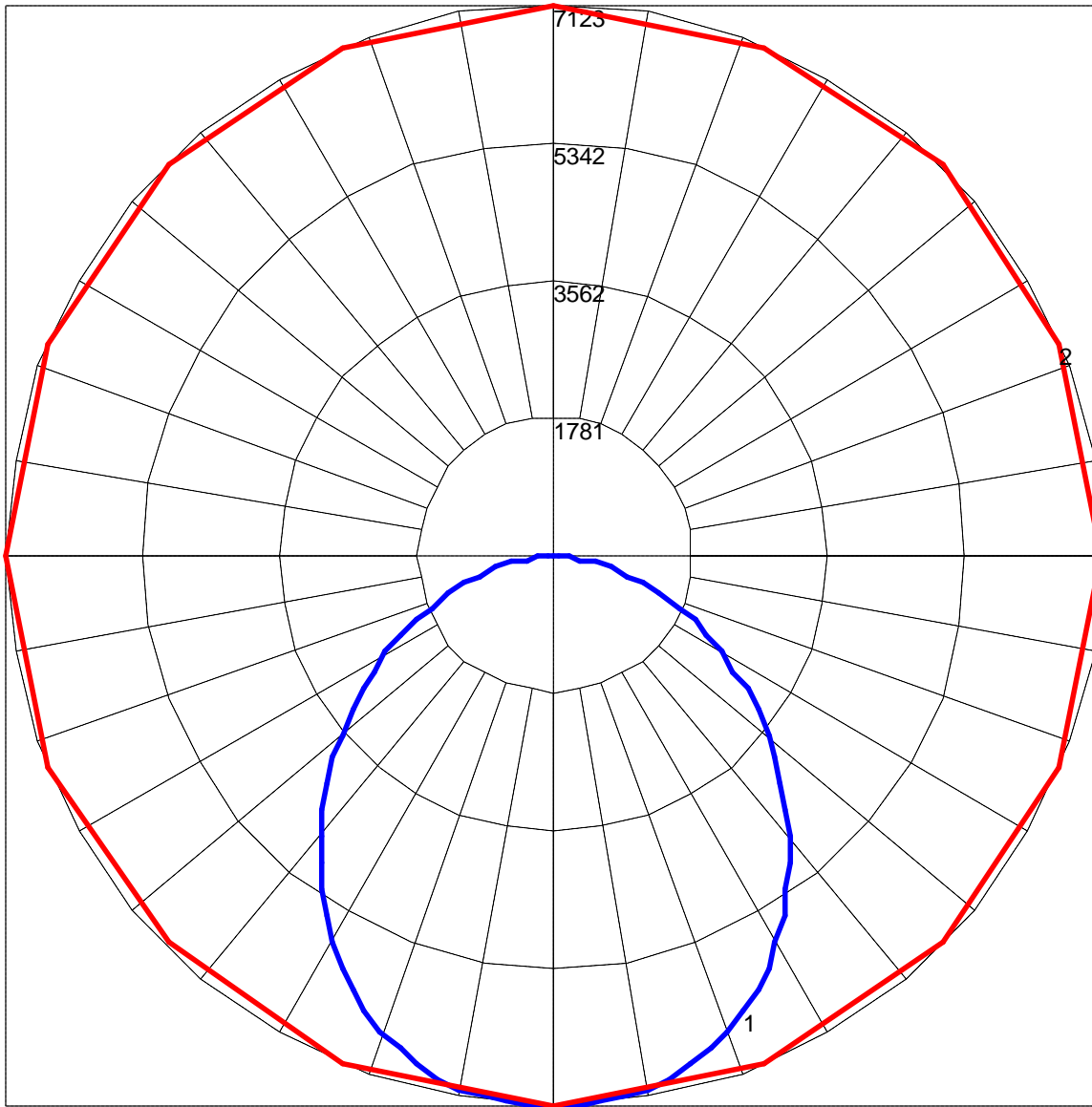
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	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	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	71	58	50	43	70	58	49	43	56	48	43	54	48	43	53	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 = 7123 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)