



IES INDOOR REPORT
PHOTOMETRIC FILENAME : XIRR-S-LED-12-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8216
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]10/13/16
[TEST DATE]10/13/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XIRR-S-LED-12-40
[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	12056
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	111.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
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	42977	42824	42732
55	38836	38760	38723
65	34379	34354	34072
75	27922	28048	28215
85	16509	16261	15764

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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	4757	4757	4757	4757	4757
2.5	4764	4764	4764	4764	4764
5.0	4754	4754	4754	4754	4754
7.5	4728	4728	4728	4727	4728
10.0	4688	4688	4687	4686	4687
12.5	4634	4634	4631	4628	4628
15.0	4565	4564	4562	4558	4558
17.5	4482	4482	4476	4474	4474
20.0	4387	4384	4380	4378	4377
22.5	4273	4273	4271	4269	4268
25.0	4152	4149	4149	4147	4147
27.5	4018	4011	4011	4013	4013
30.0	3872	3864	3864	3866	3866
32.5	3704	3704	3704	3706	3707
35.0	3534	3534	3530	3532	3537
37.5	3358	3358	3354	3356	3352
40.0	3178	3177	3173	3166	3171
42.5	2995	2994	2989	2982	2978
45.0	2809	2808	2799	2797	2793
47.5	2624	2623	2608	2607	2607
50.0	2437	2431	2423	2421	2421
52.5	2243	2237	2238	2236	2236
55.0	2059	2050	2055	2053	2053
57.5	1870	1870	1867	1869	1864
60.0	1691	1692	1689	1687	1687
62.5	1516	1517	1515	1508	1512
65.0	1343	1344	1342	1336	1331
67.5	1172	1173	1167	1162	1162
70.0	1005	1002	996	995	995
72.5	834	831	833	833	832
75.0	668	668	671	671	675
77.5	517	517	516	520	516
80.0	374	375	374	371	373
82.5	244	245	245	242	238
85.0	133	134	131	128	127
87.5	44	44	43	42	42
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1737.22	N.A.	14.40
0-30	3645.98	N.A.	30.20
0-40	5853.87	N.A.	48.60
0-60	9851.44	N.A.	81.70
0-80	11891.5	N.A.	98.60
0-90	12055.65	N.A.	100.00
10-90	11604.06	N.A.	96.30
20-40	4116.65	N.A.	34.10
20-50	6277.54	N.A.	52.10
40-70	5324.36	N.A.	44.20
60-80	2040.06	N.A.	16.90
70-80	713.27	N.A.	5.90
80-90	164.15	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	12055.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	451.59
10-20	1285.63
20-30	1908.76
30-40	2207.89
40-50	2160.9
50-60	1836.67
60-70	1326.79
70-80	713.27
80-90	164.15
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

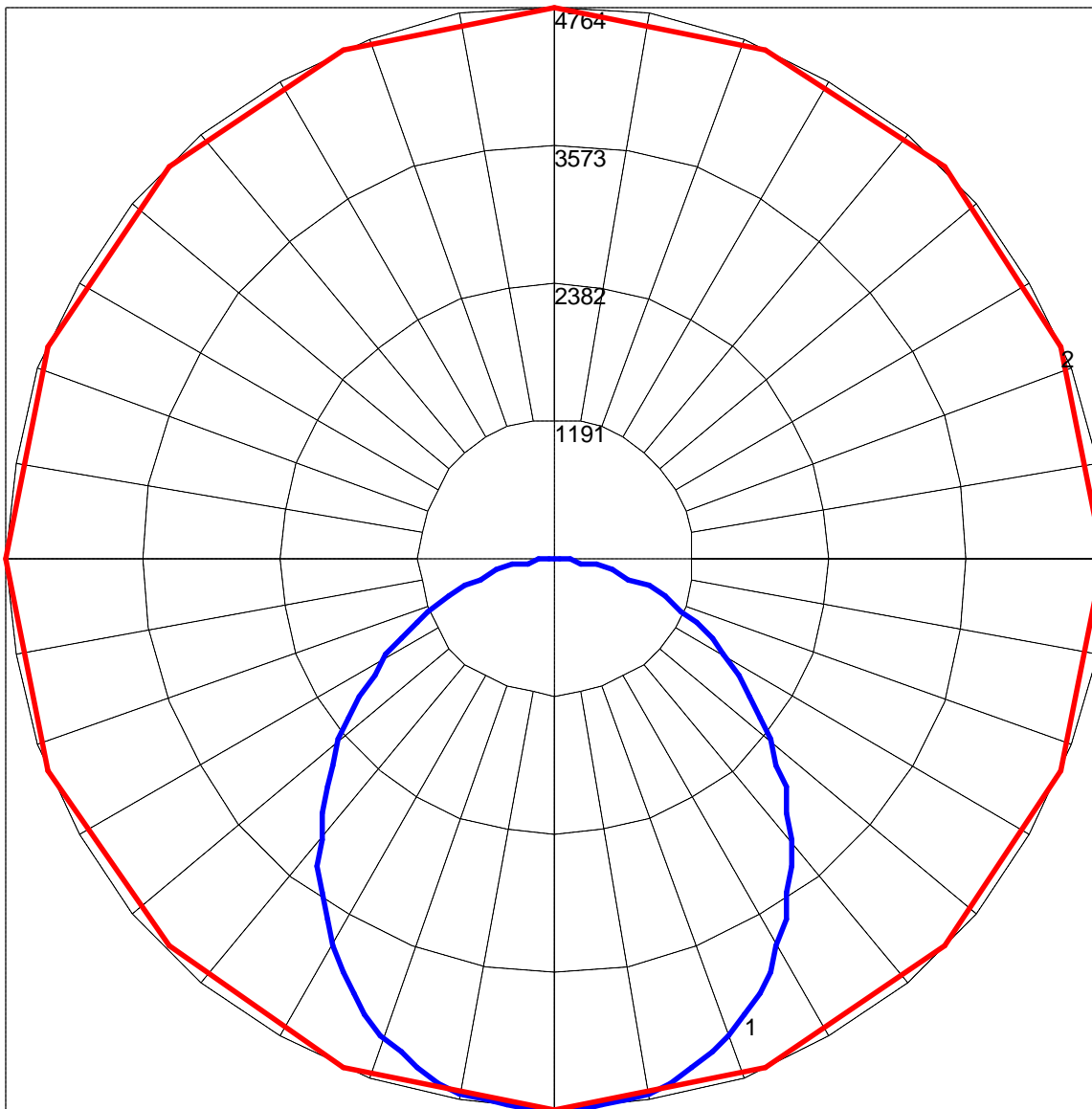
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	79	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	59	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	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	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	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 4764 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)