



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-FL-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_SS(750)_NA_N2S_5-16-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-16-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-FL-SS-35
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	36.8
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.60 ft
Luminous Height	0.13 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1286	1082	995
55	1251	1005	897
65	1177	885	756
75	1045	691	552
85	955	493	320

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	277.403	277.403	277.403	277.403	277.403	277.403	277.403	277.403	277.403	277.403
10	277.075	277.107	276.802	275.642	275.208	274.317	273.408	272.539	272.351	271.841
20	271.329	271.771	269.783	267.469	265.603	263.910	262.277	261.342	259.770	259.496
30	256.813	257.102	254.656	250.860	247.722	245.310	242.583	241.065	239.535	238.674
40	230.312	230.424	229.315	224.413	221.064	218.082	214.698	212.238	210.500	209.590
50	191.180	191.356	190.399	188.253	183.627	180.389	177.417	174.871	172.908	171.868
60	145.662	145.816	145.579	143.756	140.816	137.698	133.569	130.933	128.715	127.532
70	92.874	93.270	93.150	92.164	90.654	88.379	86.160	83.714	81.426	79.748
80	42.800	43.090	43.562	43.107	42.248	40.580	39.062	37.692	35.370	33.940
90	7.972	8.218	9.592	12.204	13.596	16.604	16.817	15.528	13.629	8.186
100	184.293	177.877	185.346	190.929	189.415	182.388	166.361	140.634	107.625	75.617
110	687.573	673.788	647.912	614.192	575.367	518.902	454.206	366.425	249.244	195.945
120	884.449	873.902	846.705	805.905	750.541	682.546	595.386	470.689	372.052	337.705
130	954.410	943.261	917.046	878.933	816.735	737.765	636.126	541.671	489.541	473.707
140	942.221	931.808	899.539	855.671	799.482	732.883	658.629	612.946	592.170	586.124
150	860.325	850.546	831.273	801.470	763.592	726.934	700.322	684.138	678.032	674.675
160	787.734	782.171	776.570	767.224	757.399	747.910	742.043	738.611	734.269	730.982
170	779.237	776.499	774.691	773.648	772.544	770.382	768.223	766.529	764.407	763.767
180	775.980	775.980	775.980	775.980	775.980	775.980	775.980	775.980	775.980	775.980

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	102.87	N.A.	2.40
0-30	221.52	N.A.	5.20
0-40	368.35	N.A.	8.70
0-60	667.92	N.A.	15.80
0-80	848.42	N.A.	20.00
0-90	877.35	N.A.	20.70
10-90	851.01	N.A.	20.10
20-40	265.48	N.A.	6.30
20-50	421.29	N.A.	9.90
40-70	411.99	N.A.	9.70
60-80	180.50	N.A.	4.30
70-80	68.08	N.A.	1.60
80-90	28.93	N.A.	0.70
90-110	449.42	N.A.	10.60
90-120	1031.24	N.A.	24.30
90-130	1663.44	N.A.	39.20
90-150	2721.66	N.A.	64.20
90-180	3361.89	N.A.	79.30
110-180	2912.47	N.A.	68.70
0-180	4239.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.35
10-20	76.52
20-30	118.65
30-40	146.83
40-50	155.81
50-60	143.76
60-70	112.43
70-80	68.08
80-90	28.93
90-100	96.06
100-110	353.36
110-120	581.82
120-130	632.20
130-140	581.80
140-150	476.42
150-160	349.96
160-170	216.44
170-180	73.83

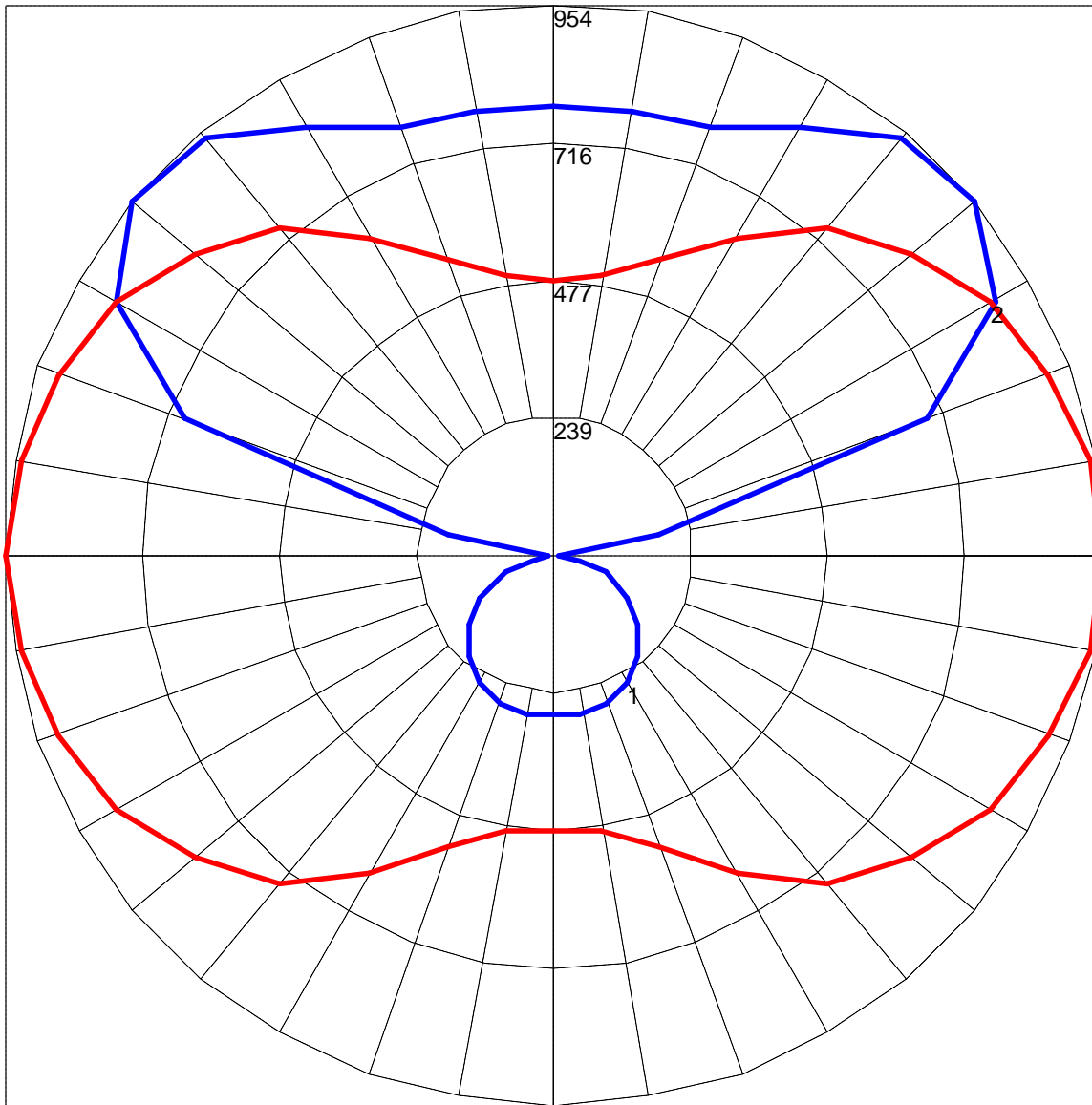
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	91	87	83	80	80	77	74	71	58	56	54	41	40	39	25	25	24	17
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20	14
3	75	66	59	54	66	59	53	48	45	41	37	32	29	27	20	18	17	12
4	69	58	51	45	60	52	45	40	39	35	32	28	25	23	17	16	14	10
5	63	52	44	38	55	46	39	34	35	30	27	25	22	20	15	14	12	9
6	58	46	38	33	51	41	34	30	31	27	23	22	19	17	14	12	11	7
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	13	11	10	7
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	12	10	8	6
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	11	9	8	5
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7	5

POLAR GRAPH



Maximum Candela = 954.41 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)