



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-FL-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_VHO(1250)_NA_N2S_5-11-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-11-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-FL-VHO-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	6443
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	62.9
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	1923	1599	1457
55	1883	1493	1316
65	1793	1321	1107
75	1636	1047	796
85	1507	680	430

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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	410.881	410.881	410.881	410.881	410.881	410.881	410.881	410.881	410.881	410.881
10	409.670	409.677	409.240	408.349	407.208	405.829	404.859	404.153	403.290	403.046
20	400.539	401.034	398.078	396.005	393.175	390.655	388.321	386.754	384.522	383.761
30	380.116	379.246	375.475	370.656	366.798	362.740	359.537	355.796	353.718	352.508
40	342.863	341.017	338.762	330.280	325.332	320.225	315.915	311.829	309.099	306.764
50	287.363	285.599	283.755	280.092	273.460	267.995	263.183	258.254	255.006	252.120
60	219.553	218.899	217.318	214.562	209.131	204.096	199.278	194.198	190.290	187.128
70	143.675	143.007	142.030	140.390	136.959	132.753	128.819	124.109	119.719	116.320
80	68.815	68.775	68.138	66.920	64.449	62.313	58.873	55.708	51.239	47.825
90	11.263	11.654	12.217	12.740	13.302	15.637	17.302	25.931	16.460	8.882
100	291.101	281.079	270.991	274.058	276.793	267.739	244.920	205.306	152.347	111.338
110	1061.908	1041.468	1004.910	947.511	881.312	800.462	694.097	560.852	385.370	299.643
120	1351.510	1333.211	1290.832	1226.979	1147.205	1034.707	900.814	719.798	570.622	520.243
130	1451.695	1433.457	1388.915	1326.183	1232.625	1122.643	977.393	830.269	755.064	726.211
140	1436.651	1417.534	1376.535	1306.290	1220.842	1119.012	1015.121	949.629	917.405	908.511
150	1318.939	1302.133	1270.284	1223.772	1167.975	1114.741	1080.761	1060.090	1046.013	1040.694
160	1218.497	1208.286	1196.647	1183.912	1170.625	1160.566	1150.519	1140.098	1132.802	1131.376
170	1221.307	1211.737	1207.013	1203.126	1199.098	1193.814	1188.938	1185.888	1183.610	1181.373
180	1208.834	1208.834	1208.834	1208.834	1208.834	1208.834	1208.834	1208.834	1208.834	1208.834

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	152.24	N.A.	2.40
0-30	327.64	N.A.	5.10
0-40	544.28	N.A.	8.40
0-60	988.38	N.A.	15.30
0-80	1259.52	N.A.	19.50
0-90	1301.34	N.A.	20.20
10-90	1262.33	N.A.	19.60
20-40	392.04	N.A.	6.10
20-50	622.41	N.A.	9.70
40-70	612.24	N.A.	9.50
60-80	271.13	N.A.	4.20
70-80	103.00	N.A.	1.60
80-90	41.83	N.A.	0.60
90-110	679.02	N.A.	10.50
90-120	1570.00	N.A.	24.40
90-130	2532.73	N.A.	39.30
90-150	4152.03	N.A.	64.40
90-180	5141.27	N.A.	79.80
110-180	4462.25	N.A.	69.30
0-180	6442.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.01
10-20	113.22
20-30	175.40
30-40	216.64
40-50	230.37
50-60	213.73
60-70	168.13
70-80	103.00
80-90	41.83
90-100	140.01
100-110	539.02
110-120	890.97
120-130	962.73
130-140	888.48
140-150	730.82
150-160	539.08
160-170	335.32
170-180	114.83

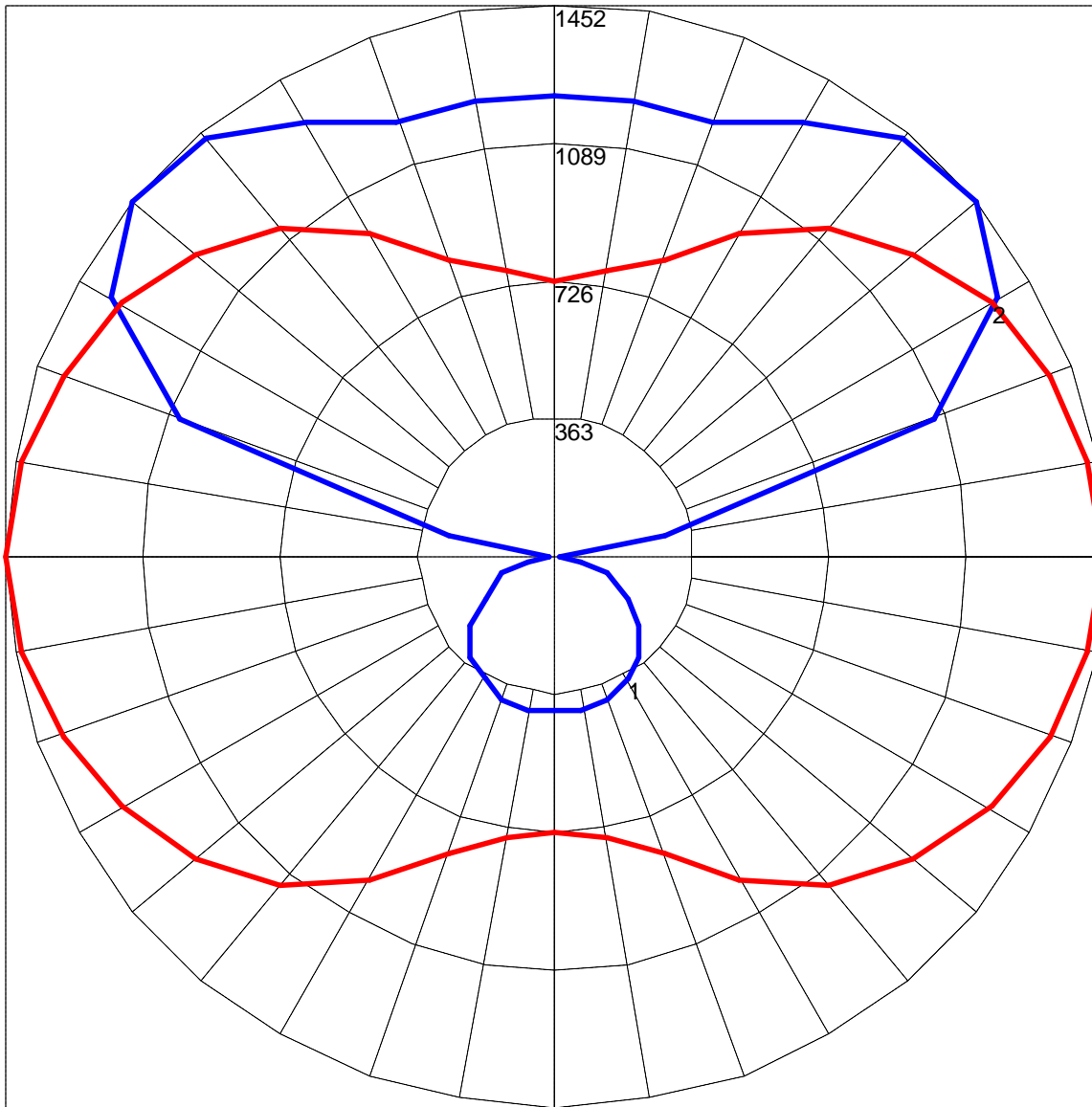
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	88	88	88	88	67	67	67	47	47	47	29	29	29	20
1	91	87	83	79	80	77	74	71	58	56	54	41	40	38	25	24	24	17
2	83	75	70	65	73	67	62	58	51	47	44	36	34	32	22	21	20	14
3	75	66	59	53	66	59	53	48	44	40	37	31	29	27	19	18	17	11
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	15	14	10
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12	8
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	12	11	9	6
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	11	10	8	6
9	46	34	27	22	40	30	24	20	23	19	16	17	14	11	10	9	7	5
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7	5

POLAR GRAPH



Maximum Candela = 1451.695 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.)