



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-FL-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_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-40
[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	6662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	1989	1653	1507
55	1947	1544	1360
65	1854	1366	1145
75	1692	1082	824
85	1558	703	445

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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	424.903	424.903	424.903	424.903	424.903	424.903	424.903	424.903	424.903	424.903
10	423.650	423.658	423.206	422.284	421.104	419.678	418.675	417.945	417.053	416.800
20	414.208	414.720	411.663	409.519	406.593	403.987	401.573	399.952	397.644	396.857
30	393.088	392.188	388.289	383.305	379.315	375.119	371.807	367.938	365.789	364.538
40	354.564	352.655	350.323	341.551	336.434	331.153	326.696	322.471	319.647	317.233
50	297.170	295.345	293.438	289.650	282.792	277.141	272.164	267.067	263.708	260.724
60	227.045	226.369	224.734	221.884	216.268	211.061	206.079	200.825	196.784	193.514
70	148.578	147.887	146.877	145.181	141.633	137.283	133.215	128.344	123.805	120.290
80	71.163	71.122	70.463	69.204	66.648	64.440	60.882	57.609	52.988	49.457
90	11.647	12.052	12.634	13.175	13.756	16.171	17.892	26.816	17.022	9.185
100	301.035	290.671	280.239	283.411	286.239	276.876	253.278	212.312	157.546	115.138
110	1098.147	1077.009	1039.204	979.846	911.388	827.779	717.784	579.992	398.521	309.869
120	1397.632	1378.708	1334.883	1268.851	1186.355	1070.018	931.555	744.362	590.095	537.997
130	1501.236	1482.375	1436.313	1371.441	1274.690	1160.954	1010.748	858.603	780.831	750.994
140	1485.678	1465.909	1423.511	1350.869	1262.505	1157.200	1049.763	982.036	948.713	939.515
150	1363.949	1346.570	1313.634	1265.535	1207.833	1152.783	1117.643	1096.267	1081.709	1076.209
160	1260.080	1249.520	1237.484	1224.314	1210.574	1200.172	1189.782	1179.005	1171.460	1169.985
170	1262.985	1253.089	1248.204	1244.184	1240.019	1234.554	1229.512	1226.358	1224.002	1221.689
180	1250.087	1250.087	1250.087	1250.087	1250.087	1250.087	1250.087	1250.087	1250.087	1250.087

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	157.43	N.A.	2.40
0-30	338.82	N.A.	5.10
0-40	562.85	N.A.	8.40
0-60	1022.11	N.A.	15.30
0-80	1302.5	N.A.	19.50
0-90	1345.75	N.A.	20.20
10-90	1305.41	N.A.	19.60
20-40	405.42	N.A.	6.10
20-50	643.65	N.A.	9.70
40-70	633.13	N.A.	9.50
60-80	280.39	N.A.	4.20
70-80	106.52	N.A.	1.60
80-90	43.25	N.A.	0.60
90-110	702.20	N.A.	10.50
90-120	1623.58	N.A.	24.40
90-130	2619.16	N.A.	39.30
90-150	4293.73	N.A.	64.40
90-180	5316.72	N.A.	79.80
110-180	4614.53	N.A.	69.30
0-180	6662.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.35
10-20	117.09
20-30	181.39
30-40	224.04
40-50	238.23
50-60	221.03
60-70	173.87
70-80	106.52
80-90	43.25
90-100	144.78
100-110	557.41
110-120	921.38
120-130	995.59
130-140	918.80
140-150	755.76
150-160	557.48
160-170	346.77
170-180	118.75

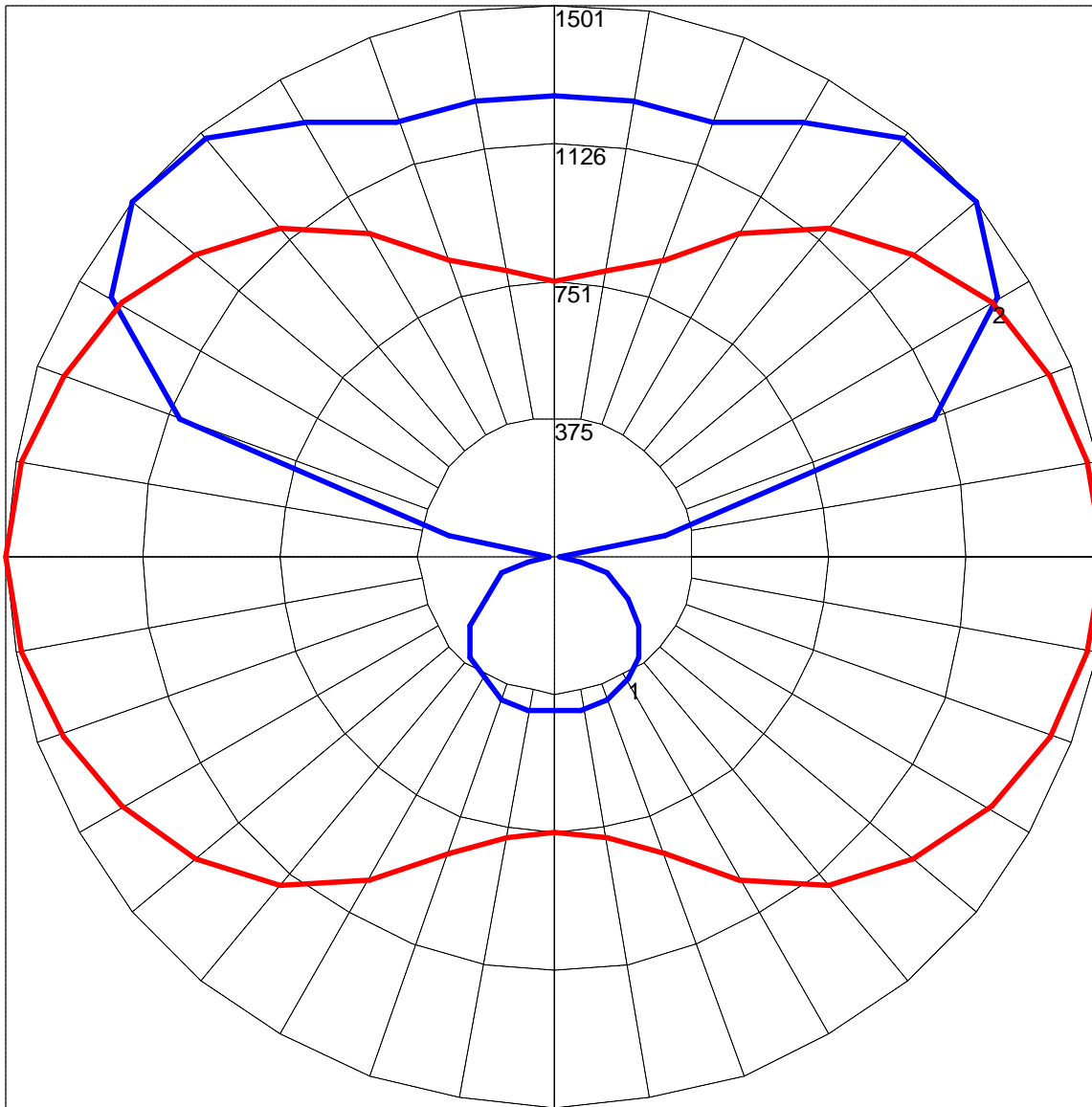
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1501.236 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.)