



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-VHO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L250\_4000K\_VHO(1250)\_0100\_N2S\_5-12-2016  
[TESTLAB] Orb Optronix, Inc.  
[ISSUE DATE] 05-12-2016  
[TEST DATE] 01-12-2017  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMEN CATEGORY] HRZ-4-LED-0100-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	4223
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	62.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	6099	5255	4975
55	5766	4756	4431
65	5258	4054	3693
75	4385	2994	2622
85	3054	1436	1163

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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>
<b>0</b>	1499.465	1499.465	1499.465	1499.465	1499.465	1499.465	1499.465	1499.465	1499.465	1499.465
<b>10</b>	1488.424	1479.360	1468.642	1466.067	1464.377	1462.288	1459.888	1457.543	1454.950	1452.024
<b>20</b>	1407.307	1396.448	1390.026	1385.055	1381.826	1378.959	1375.064	1371.872	1367.988	1364.046
<b>30</b>	1277.179	1269.020	1261.615	1256.379	1252.993	1248.247	1243.209	1238.864	1232.811	1229.779
<b>40</b>	1104.020	1091.308	1085.075	1082.477	1078.416	1073.189	1067.569	1061.924	1057.559	1053.611
<b>50</b>	894.168	887.676	882.116	880.816	876.509	873.528	868.368	862.990	858.016	854.001
<b>60</b>	658.312	654.800	651.895	649.438	648.206	642.677	638.425	635.123	629.795	625.379
<b>70</b>	407.096	404.940	403.501	404.077	403.078	402.077	399.225	395.853	391.095	387.016
<b>80</b>	162.341	162.169	163.003	164.203	164.652	164.412	162.465	160.008	156.856	153.320
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	544.89	N.A.	12.90
0-30	1154.06	N.A.	27.30
0-40	1884.62	N.A.	44.60
0-60	3319.95	N.A.	78.60
0-80	4135.12	N.A.	97.90
0-90	4223.35	N.A.	100.00
10-90	4081.87	N.A.	96.70
20-40	1339.73	N.A.	31.70
20-50	2094.4	N.A.	49.60
40-70	1953.32	N.A.	46.30
60-80	815.17	N.A.	19.30
70-80	297.19	N.A.	7.00
80-90	88.23	N.A.	2.10
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	4223.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	141.48
10-20	403.41
20-30	609.17
30-40	730.56
40-50	754.67
50-60	680.66
60-70	517.99
70-80	297.19
80-90	88.23
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

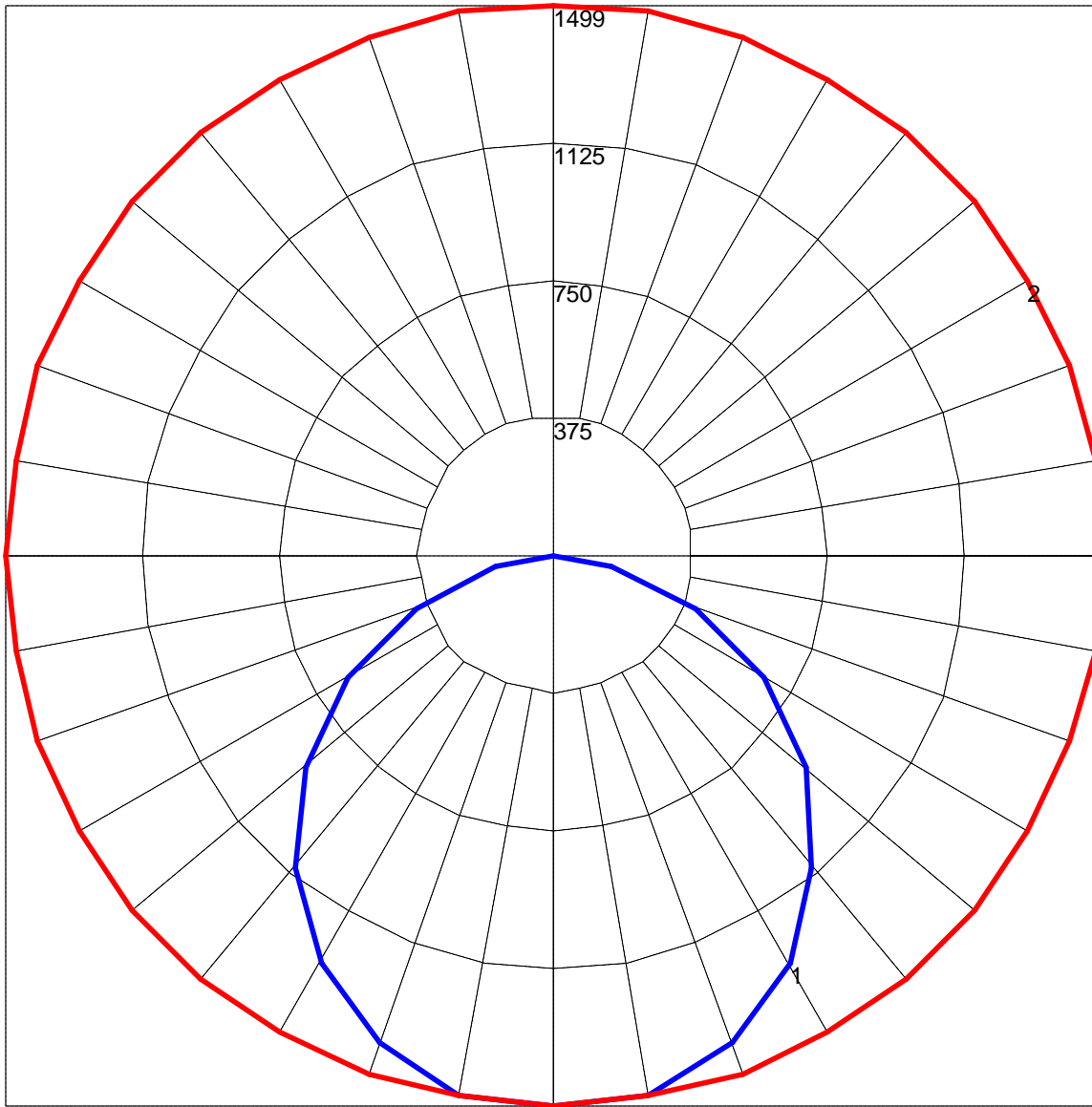
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1499.465 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)