



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-VHO-35.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L250\_3500K\_VHO(1250)\_0100\_N2S\_5-12-2016

[TESTLAB] Orb Optronix, Inc.

[ISSUE DATE] 05-12-2016

[TEST DATE] 01-12-2017

[MANUFACT] LSI INDUSTRIES, INC

[LUMCAT] HRZ-4-LED-0100-FL-VHO-35

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[\_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
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	5897	5081	4810
55	5576	4599	4284
65	5085	3921	3571
75	4240	2895	2535
85	2954	1389	1125

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-VHO-35.IES

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>	1449.983	1449.983	1449.983	1449.983	1449.983	1449.983	1449.983	1449.983	1449.983	1449.983
<b>10</b>	1439.306	1430.541	1420.177	1417.687	1416.053	1414.033	1411.712	1409.444	1406.937	1404.107
<b>20</b>	1360.866	1350.365	1344.155	1339.348	1336.226	1333.453	1329.687	1326.600	1322.844	1319.032
<b>30</b>	1235.032	1227.142	1219.982	1214.919	1211.644	1207.055	1202.183	1197.981	1192.128	1189.196
<b>40</b>	1067.587	1055.295	1049.268	1046.755	1042.828	1037.774	1032.339	1026.881	1022.660	1018.842
<b>50</b>	864.660	858.383	853.006	851.749	847.584	844.702	839.712	834.511	829.701	825.819
<b>60</b>	636.588	633.192	630.382	628.007	626.815	621.469	617.357	614.164	609.012	604.741
<b>70</b>	393.662	391.577	390.185	390.742	389.776	388.808	386.051	382.790	378.189	374.244
<b>80</b>	156.984	156.817	157.624	158.784	159.218	158.986	157.104	154.728	151.680	148.260
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-VHO-35.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	526.91	N.A.	12.90
0-30	1115.97	N.A.	27.30
0-40	1822.42	N.A.	44.60
0-60	3210.39	N.A.	78.60
0-80	3998.66	N.A.	97.90
0-90	4083.98	N.A.	100.00
10-90	3947.17	N.A.	96.70
20-40	1295.52	N.A.	31.70
20-50	2025.29	N.A.	49.60
40-70	1888.86	N.A.	46.30
60-80	788.27	N.A.	19.30
70-80	287.38	N.A.	7.00
80-90	85.32	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	4083.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	136.81
10-20	390.10
20-30	589.07
30-40	706.45
40-50	729.77
50-60	658.20
60-70	500.89
70-80	287.38
80-90	85.32
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

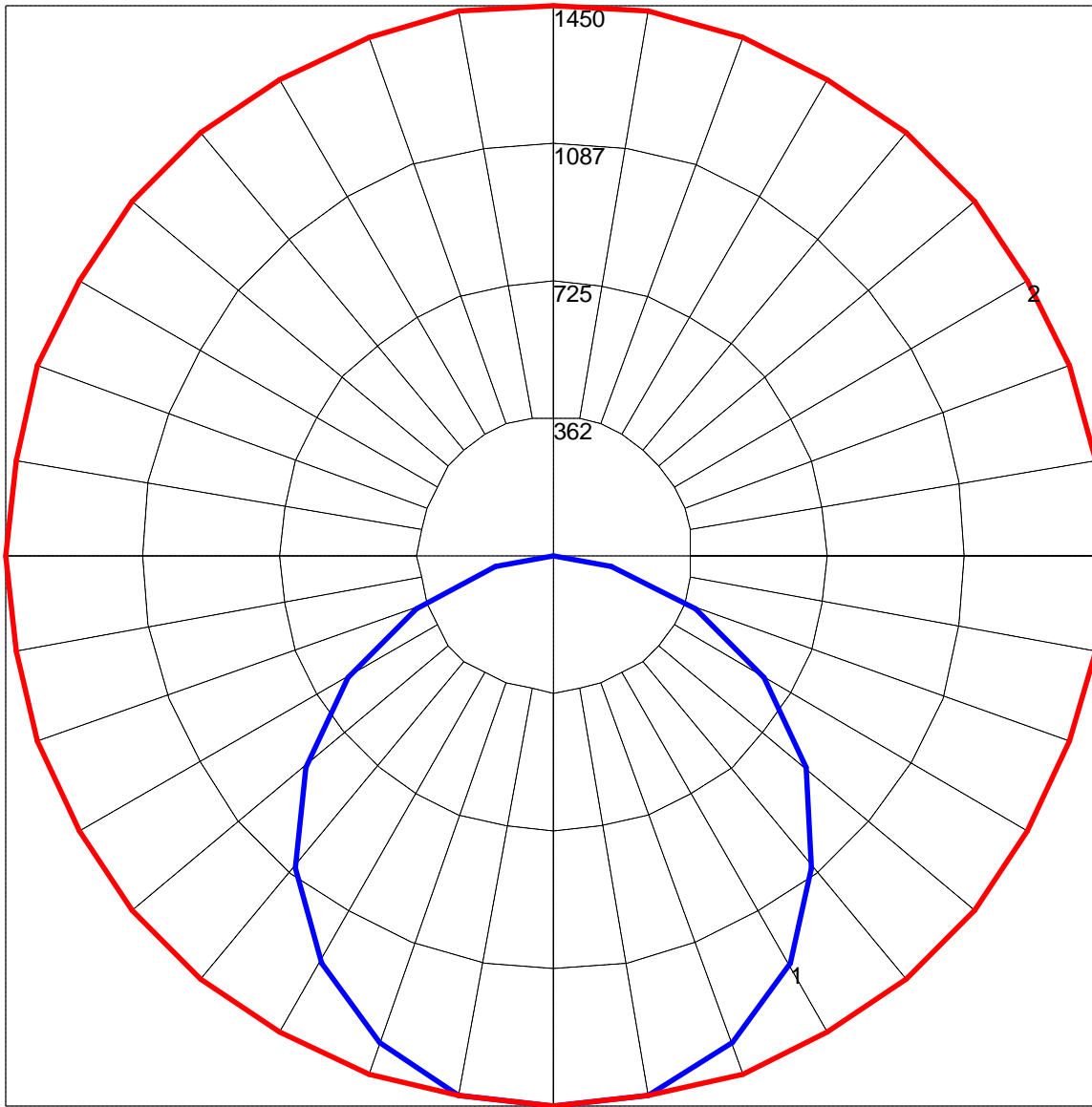
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-VHO-35.IES**

**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	101	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 = 1449.983 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.)