



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-VHO-30.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L250\_3000K\_VHO(1250)\_5050\_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-5050-FL-VHO-30  
[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	5150
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	62.6
Ballast Factor	1.00
CIE Type	General Diffuse
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	3768	3277	3166
55	3521	2940	2826
65	3122	2473	2367
75	2470	1772	1691
85	1821	980	859

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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>	940.060	940.060	940.060	940.060	940.060	940.060	940.060	940.060	940.060	940.060
<b>10</b>	927.858	924.042	922.065	920.974	919.176	918.466	917.950	916.873	916.642	915.862
<b>20</b>	876.371	874.680	871.796	869.700	867.728	865.039	863.879	863.543	863.457	862.702
<b>30</b>	795.747	794.308	791.365	787.705	785.138	783.874	781.221	780.668	780.758	781.097
<b>40</b>	683.409	681.696	679.734	677.137	674.727	673.005	671.359	670.766	670.212	671.179
<b>50</b>	551.071	549.655	546.885	545.934	542.896	542.114	541.587	540.932	541.903	542.915
<b>60</b>	396.982	396.714	397.692	397.558	397.502	397.310	397.324	398.117	398.917	400.684
<b>70</b>	235.615	236.604	238.279	240.006	241.092	242.673	243.830	244.938	245.881	248.278
<b>80</b>	85.091	86.214	88.260	90.555	92.483	94.842	97.227	98.117	98.602	100.286
<b>90</b>	11.699	12.359	13.185	13.751	15.292	21.905	21.940	22.599	19.124	12.976
<b>100</b>	162.070	174.413	170.654	168.546	168.085	162.878	143.350	123.342	107.333	87.731
<b>110</b>	473.309	475.944	464.696	446.489	408.096	374.628	331.204	280.893	222.221	194.845
<b>120</b>	603.491	573.911	598.211	550.355	532.044	492.970	433.303	367.643	318.782	303.372
<b>130</b>	662.098	630.700	610.065	624.529	589.603	529.455	474.419	434.453	411.390	404.979
<b>140</b>	672.029	651.943	619.168	599.168	582.062	564.829	531.049	501.852	485.966	480.854
<b>150</b>	637.587	629.708	599.012	575.838	558.806	541.598	536.338	536.157	534.730	536.033
<b>160</b>	605.587	604.835	596.394	581.790	568.617	562.392	560.184	558.216	558.654	558.959
<b>170</b>	606.512	607.684	606.581	605.119	601.641	596.512	593.609	590.349	587.553	586.926
<b>180</b>	602.172	602.172	602.172	602.172	602.172	602.172	602.172	602.172	602.172	602.172

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	342.11	N.A.	6.60
0-30	724.82	N.A.	14.10
0-40	1183.73	N.A.	23.00
0-60	2078.53	N.A.	40.40
0-80	2573.06	N.A.	50.00
0-90	2633.16	N.A.	51.10
10-90	2544.39	N.A.	49.40
20-40	841.62	N.A.	16.30
20-50	1313.81	N.A.	25.50
40-70	1212.17	N.A.	23.50
60-80	494.53	N.A.	9.60
70-80	177.16	N.A.	3.40
80-90	60.10	N.A.	1.20
90-110	365.84	N.A.	7.10
90-120	788.19	N.A.	15.30
90-130	1244.69	N.A.	24.20
90-150	2029.19	N.A.	39.40
90-180	2516.93	N.A.	48.90
110-180	2151.09	N.A.	41.80
0-180	5150.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	88.77
10-20	253.35
20-30	382.71
30-40	458.91
40-50	472.19
50-60	422.61
60-70	317.37
70-80	177.16
80-90	60.10
90-100	90.68
100-110	275.16
110-120	422.35
120-130	456.50
130-140	428.12
140-150	356.38
150-160	264.15
160-170	166.29
170-180	57.30

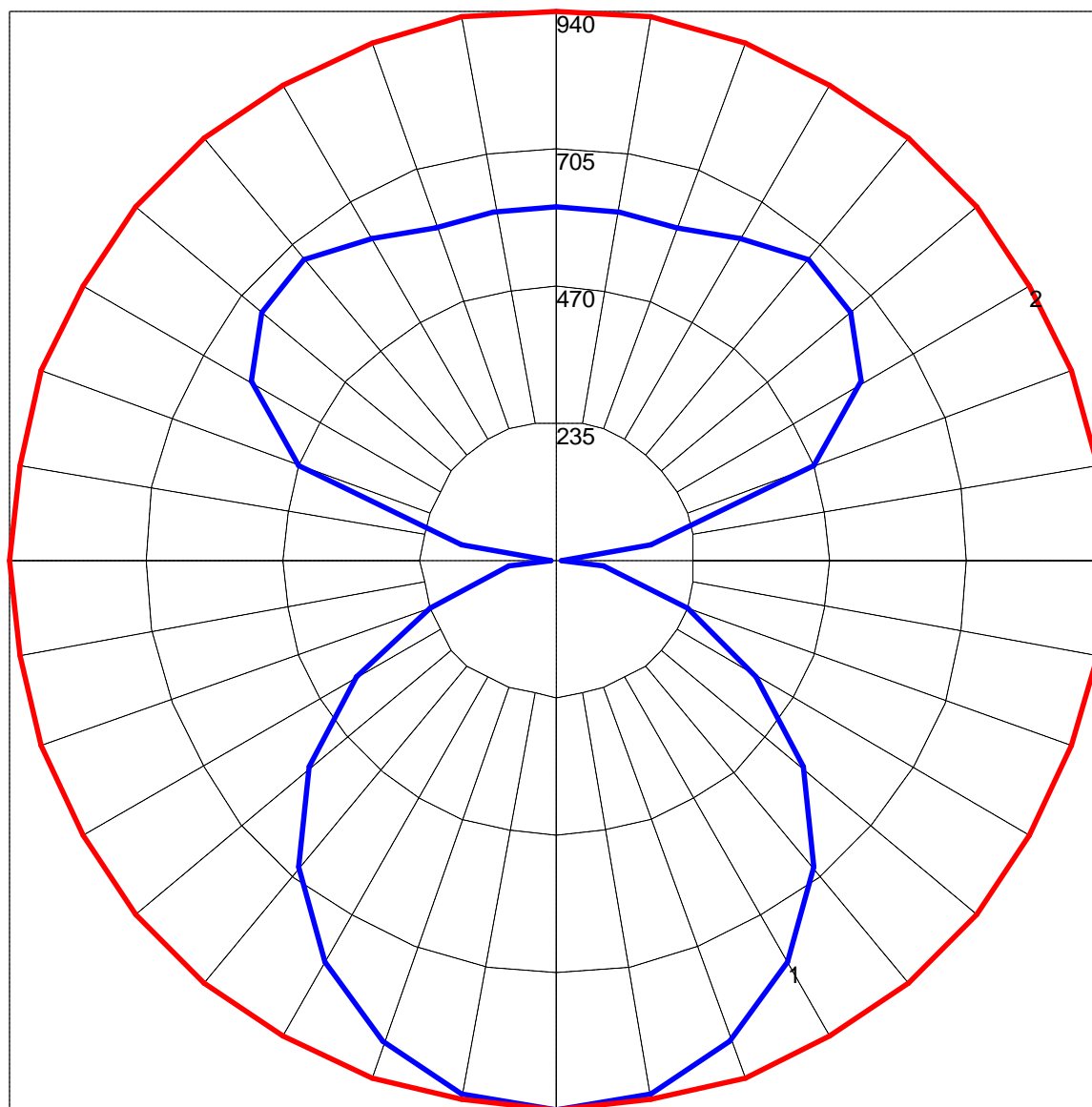
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43
2	89	81	75	70	82	75	70	65	64	60	57	54	51	48	44	42	40	36
3	81	71	64	58	75	66	60	54	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	39	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	26	33	28	23	28	24	21	24	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 940.06 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.)