



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-VHO-30.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L250\_3000K\_VHO(1250)\_3070\_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-3070-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	4933
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	62.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
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	4528	3925	3819
55	4205	3503	3399
65	3664	2903	2836
75	2800	2016	1995
85	1951	1069	954

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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>	1145.167	1145.167	1145.167	1145.167	1145.167	1145.167	1145.167	1145.167	1145.167	1145.167
<b>10</b>	1136.485	1126.358	1121.963	1119.345	1116.237	1115.103	1114.178	1111.055	1111.367	1111.680
<b>20</b>	1069.444	1061.001	1056.086	1052.807	1049.916	1048.464	1047.236	1047.239	1045.555	1046.760
<b>30</b>	965.396	958.142	954.097	950.353	948.280	945.325	943.620	943.192	944.243	945.883
<b>40</b>	823.386	818.292	814.119	811.410	808.640	808.205	807.265	807.308	808.301	810.788
<b>50</b>	660.320	656.002	653.854	649.966	649.389	648.267	648.388	649.775	651.599	653.631
<b>60</b>	471.882	470.332	469.958	470.177	470.478	471.610	472.998	474.665	477.404	481.293
<b>70</b>	270.529	270.061	276.561	273.104	275.734	282.942	286.231	288.846	292.191	296.176
<b>80</b>	93.085	94.034	95.905	98.119	101.086	104.011	107.282	109.973	112.259	115.056
<b>90</b>	10.633	12.875	14.644	15.954	17.964	21.846	23.036	21.353	19.446	10.743
<b>100</b>	114.142	122.888	131.850	143.258	151.031	154.461	145.221	127.465	104.723	84.555
<b>110</b>	301.500	309.963	317.882	295.751	290.334	272.567	252.433	220.739	183.128	160.077
<b>120</b>	399.236	378.344	389.431	398.107	361.416	326.706	325.608	293.450	248.671	231.935
<b>130</b>	439.372	424.086	409.509	416.723	400.954	391.648	360.078	314.634	289.067	279.048
<b>140</b>	451.018	446.780	417.626	408.777	410.169	393.989	368.182	353.772	347.256	343.340
<b>150</b>	438.252	440.224	422.169	398.793	385.517	378.491	376.582	376.378	375.848	374.816
<b>160</b>	411.860	413.439	412.353	403.411	393.815	385.341	381.389	378.537	378.010	378.661
<b>170</b>	409.475	410.273	412.070	413.707	412.848	411.299	409.227	406.857	407.121	407.015
<b>180</b>	402.531	402.531	402.531	402.531	402.531	402.531	402.531	402.531	402.531	402.531

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	415.50	N.A.	8.40
0-30	878.61	N.A.	17.80
0-40	1431.55	N.A.	29.00
0-60	2502.28	N.A.	50.70
0-80	3079.45	N.A.	62.40
0-90	3145.19	N.A.	63.80
10-90	3037.19	N.A.	61.60
20-40	1016.04	N.A.	20.60
20-50	1582.46	N.A.	32.10
40-70	1444.8	N.A.	29.30
60-80	577.17	N.A.	11.70
70-80	203.11	N.A.	4.10
80-90	65.74	N.A.	1.30
90-110	289.97	N.A.	5.90
90-120	588.36	N.A.	11.90
90-130	907.51	N.A.	18.40
90-150	1452.74	N.A.	29.40
90-180	1788.06	N.A.	36.20
110-180	1498.09	N.A.	30.40
0-180	4933.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	108.00
10-20	307.50
20-30	463.10
30-40	552.94
40-50	566.41
50-60	504.33
60-70	374.06
70-80	203.11
80-90	65.74
90-100	81.11
100-110	208.87
110-120	298.39
120-130	319.15
130-140	297.29
140-150	247.94
150-160	182.63
160-170	113.91
170-180	38.79

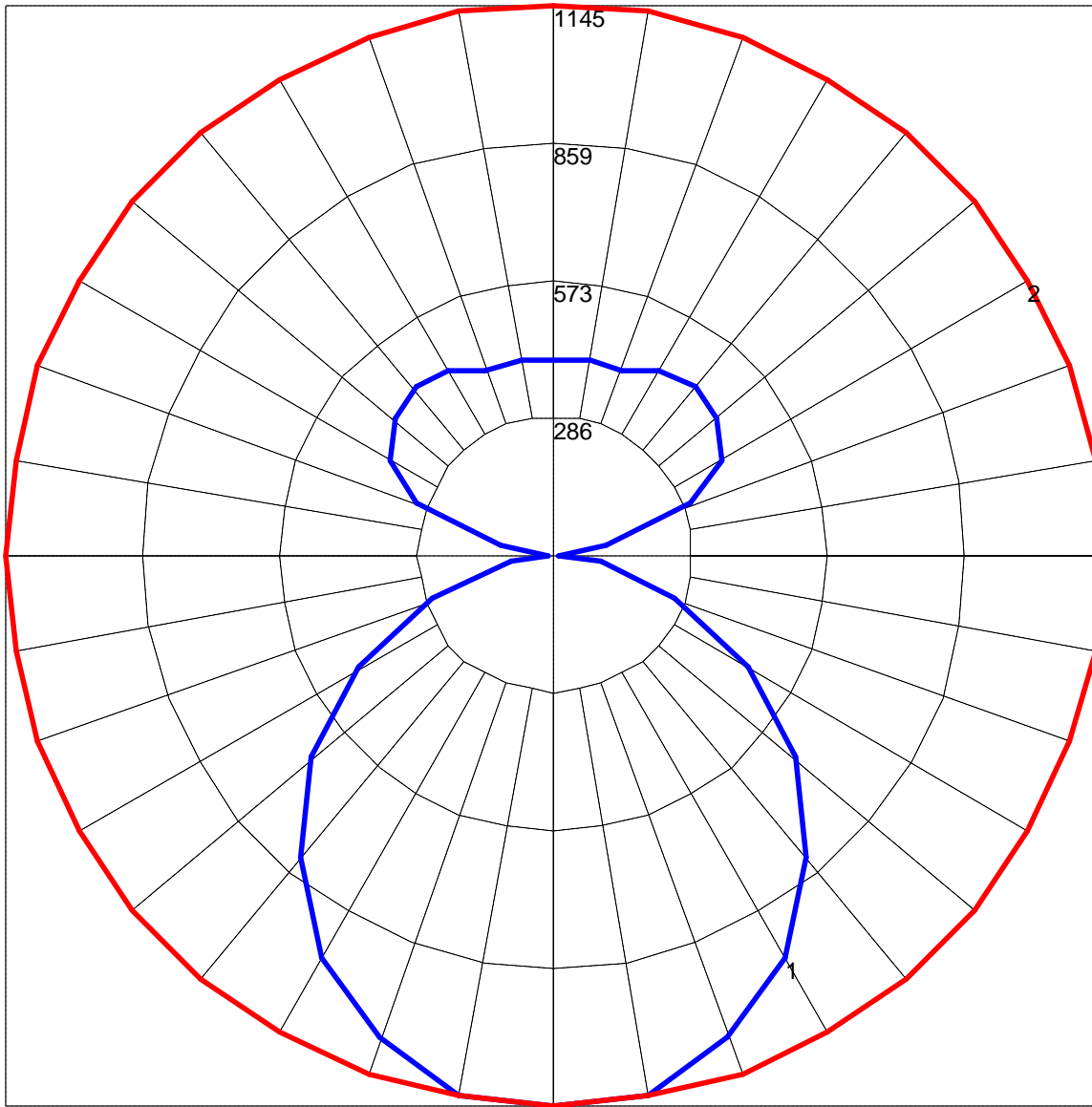
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	101	96	92	89	94	90	87	84	80	77	75	70	68	66	61	59	58	53
2	92	84	78	72	86	79	73	69	70	65	62	61	58	55	53	51	49	45
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	47	44	41	38
4	76	65	57	51	71	62	54	48	55	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	38	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	22
8	56	43	35	29	52	41	33	28	36	30	26	32	27	24	29	25	21	19
9	52	39	31	26	49	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	28	23	19	25	20	18	16

POLAR GRAPH



Maximum Candela = 1145.167 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.)