



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-SS-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L250\_3000K\_SS(750)\_5050\_N2S\_5-17-2016  
[TESTLAB] Orb Optronix, Inc.  
[ISSUE DATE] 05-17-2016  
[TEST DATE] 01-12-2017  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMEN CATEGORY] HRZ-4-LED-5050-FL-SS-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	3582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	36.7
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	2637	2291	2167
55	2526	2097	1944
65	2334	1820	1642
75	2021	1392	1201
85	1776	858	680

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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>	633.435	633.435	633.435	633.435	633.435	633.435	633.435	633.435	633.435	633.435
<b>10</b>	623.369	623.947	624.126	623.149	623.021	622.219	622.523	620.952	621.722	620.205
<b>20</b>	594.857	595.005	594.066	593.427	591.946	590.288	589.447	587.578	586.654	585.919
<b>30</b>	545.451	545.499	544.265	542.096	540.893	538.899	536.509	534.719	533.012	532.380
<b>40</b>	474.280	474.623	474.056	471.548	469.068	466.933	464.393	462.237	459.618	458.312
<b>50</b>	389.659	390.064	389.942	387.886	383.532	381.464	379.293	376.352	374.066	372.583
<b>60</b>	290.383	290.716	290.957	290.852	288.819	287.149	283.246	280.426	278.157	276.545
<b>70</b>	182.603	183.258	183.557	183.602	182.851	182.022	179.998	177.718	175.595	173.551
<b>80</b>	79.879	80.238	81.283	81.545	81.723	80.719	79.717	78.436	76.139	74.091
<b>90</b>	14.523	14.833	15.013	15.335	16.533	17.648	18.834	21.074	20.637	15.490
<b>100</b>	117.388	128.014	126.964	121.169	121.980	117.240	109.049	96.392	80.448	65.229
<b>110</b>	322.228	323.627	322.518	309.484	280.420	254.899	226.310	193.642	152.530	136.364
<b>120</b>	408.135	391.316	401.372	382.583	362.333	341.005	303.830	256.527	222.456	211.448
<b>130</b>	447.429	430.541	415.036	420.102	405.920	362.070	326.000	295.049	277.476	271.594
<b>140</b>	450.030	441.588	417.902	402.289	388.157	380.350	359.329	339.685	331.418	330.268
<b>150</b>	425.543	424.654	405.817	387.776	375.015	362.906	354.421	352.767	351.894	351.104
<b>160</b>	400.878	403.081	400.103	390.861	382.196	377.965	375.510	375.222	374.826	375.364
<b>170</b>	400.853	401.439	403.200	404.229	403.845	402.048	399.993	398.214	396.944	397.074
<b>180</b>	399.233	399.233	399.233	399.233	399.233	399.233	399.233	399.233	399.233	399.233

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	231.95	N.A.	6.50
0-30	493.56	N.A.	13.80
0-40	809.88	N.A.	22.60
0-60	1439.06	N.A.	40.20
0-80	1808.42	N.A.	50.50
0-90	1861.26	N.A.	52.00
10-90	1801.31	N.A.	50.30
20-40	577.93	N.A.	16.10
20-50	907.18	N.A.	25.30
40-70	860.81	N.A.	24.00
60-80	369.37	N.A.	10.30
70-80	137.73	N.A.	3.80
80-90	52.84	N.A.	1.50
90-110	262.64	N.A.	7.30
90-120	552.92	N.A.	15.40
90-130	865.08	N.A.	24.20
90-150	1394.4	N.A.	38.90
90-180	1720.73	N.A.	48.00
110-180	1458.09	N.A.	40.70
0-180	3582.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.95
10-20	172.01
20-30	261.61
30-40	316.32
40-50	329.25
50-60	299.93
60-70	231.64
70-80	137.73
80-90	52.84
90-100	69.55
100-110	193.09
110-120	290.28
120-130	312.16
130-140	290.10
140-150	239.22
150-160	176.70
160-170	111.45
170-180	38.19

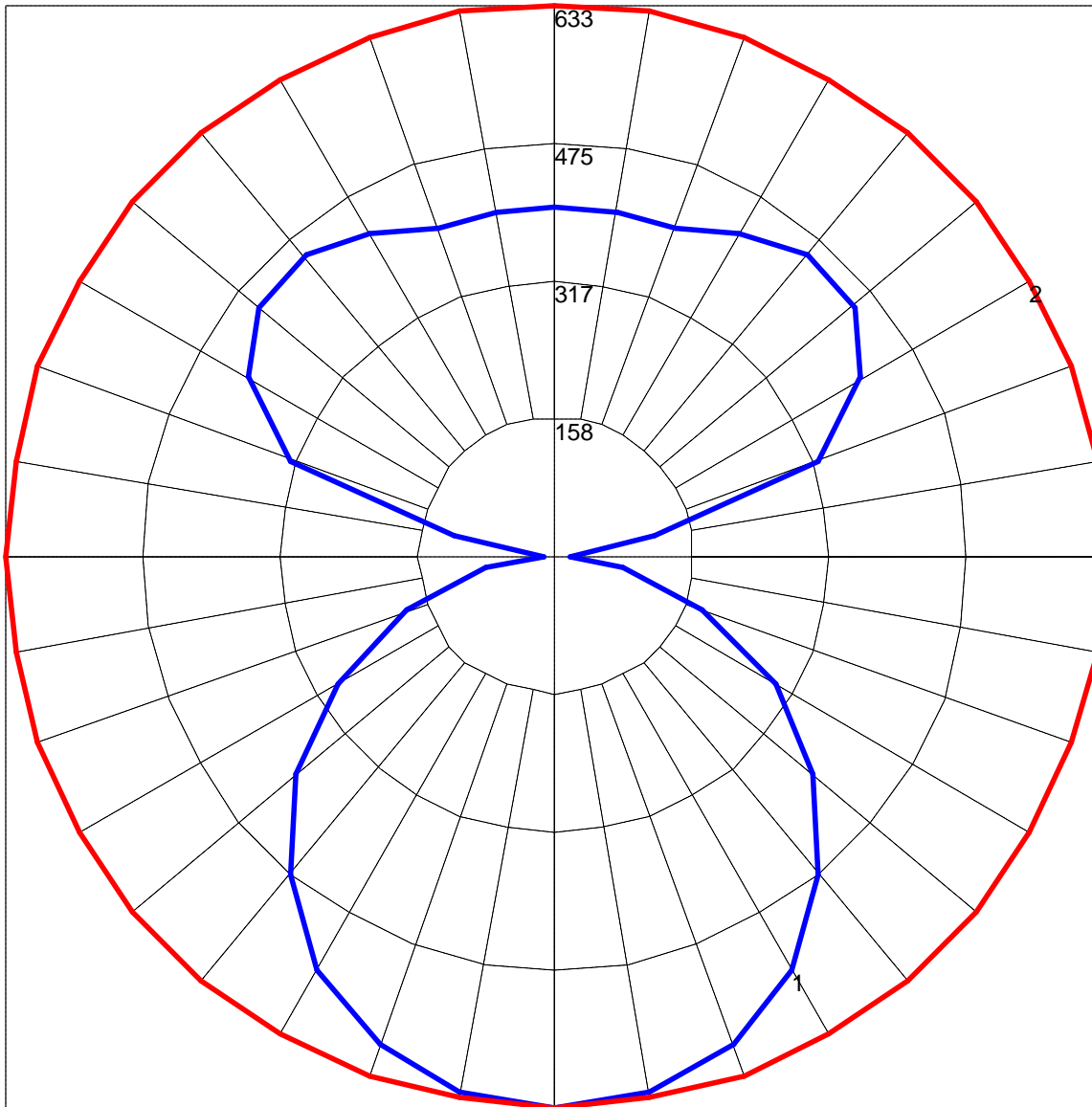
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	93	89	86	90	86	83	80	73	71	69	62	60	58	51	49	48	43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	36
3	81	71	64	58	74	66	59	54	56	51	47	47	44	40	39	36	34	30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	32	29	25
5	68	56	48	41	62	52	45	39	45	39	34	38	33	30	31	28	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	24	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

POLAR GRAPH



Maximum Candela = 633.435 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.)