



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-SS-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L250\_4000K\_SS(750)\_5050\_N2S\_5-17-2016  
[TESTLAB] Orb Optronix, Inc.  
[ISSUEDATE] 05-17-2016  
[TESTDATE] 01-12-2017  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] HRZ-4-LED-5050-FL-SS-40  
[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	3819
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	2811	2442	2310
55	2693	2236	2073
65	2489	1940	1750
75	2155	1484	1281
85	1894	915	725

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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>	675.304	675.304	675.304	675.304	675.304	675.304	675.304	675.304	675.304	675.304
<b>10</b>	664.572	665.189	665.380	664.338	664.202	663.346	663.671	661.996	662.817	661.199
<b>20</b>	634.176	634.334	633.333	632.651	631.073	629.305	628.408	626.416	625.431	624.647
<b>30</b>	581.504	581.555	580.240	577.928	576.645	574.519	571.971	570.063	568.243	567.569
<b>40</b>	505.629	505.995	505.390	502.716	500.072	497.796	495.089	492.790	489.998	488.606
<b>50</b>	415.415	415.846	415.716	413.524	408.883	406.678	404.364	401.228	398.791	397.210
<b>60</b>	309.577	309.932	310.189	310.077	307.909	306.129	301.968	298.962	296.543	294.824
<b>70</b>	194.673	195.371	195.690	195.738	194.937	194.053	191.895	189.465	187.202	185.022
<b>80</b>	85.159	85.542	86.656	86.935	87.125	86.054	84.986	83.621	81.172	78.988
<b>90</b>	15.483	15.813	16.005	16.349	17.626	18.815	20.079	22.467	22.001	16.514
<b>100</b>	125.147	136.476	135.356	129.178	130.043	124.989	116.257	102.763	85.765	69.540
<b>110</b>	343.527	345.018	343.836	329.940	298.955	271.747	241.269	206.441	162.612	145.377
<b>120</b>	435.112	417.181	427.902	407.871	386.282	363.545	323.913	273.483	237.160	225.424
<b>130</b>	477.003	458.999	442.469	447.870	432.750	386.002	347.548	314.551	295.817	289.546
<b>140</b>	479.776	470.776	445.525	428.879	413.813	405.490	383.080	362.137	353.324	352.098
<b>150</b>	453.671	452.723	432.641	413.407	399.803	386.893	377.848	376.084	375.153	374.311
<b>160</b>	427.375	429.724	426.549	416.696	407.458	402.948	400.330	400.023	399.601	400.175
<b>170</b>	427.349	427.973	429.851	430.948	430.538	428.623	426.432	424.535	423.181	423.320
<b>180</b>	425.622	425.622	425.622	425.622	425.622	425.622	425.622	425.622	425.622	425.622

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	247.28	N.A.	6.50
0-30	526.19	N.A.	13.80
0-40	863.41	N.A.	22.60
0-60	1534.17	N.A.	40.20
0-80	1927.96	N.A.	50.50
0-90	1984.29	N.A.	52.00
10-90	1920.38	N.A.	50.30
20-40	616.13	N.A.	16.10
20-50	967.14	N.A.	25.30
40-70	917.71	N.A.	24.00
60-80	393.78	N.A.	10.30
70-80	146.84	N.A.	3.80
80-90	56.33	N.A.	1.50
90-110	280.00	N.A.	7.30
90-120	589.47	N.A.	15.40
90-130	922.26	N.A.	24.20
90-150	1486.56	N.A.	38.90
90-180	1834.47	N.A.	48.00
110-180	1554.47	N.A.	40.70
0-180	3818.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.91
10-20	183.37
20-30	278.90
30-40	337.23
40-50	351.01
50-60	319.75
60-70	246.95
70-80	146.84
80-90	56.33
90-100	74.15
100-110	205.85
110-120	309.47
120-130	332.79
130-140	309.27
140-150	255.03
150-160	188.38
160-170	118.81
170-180	40.72

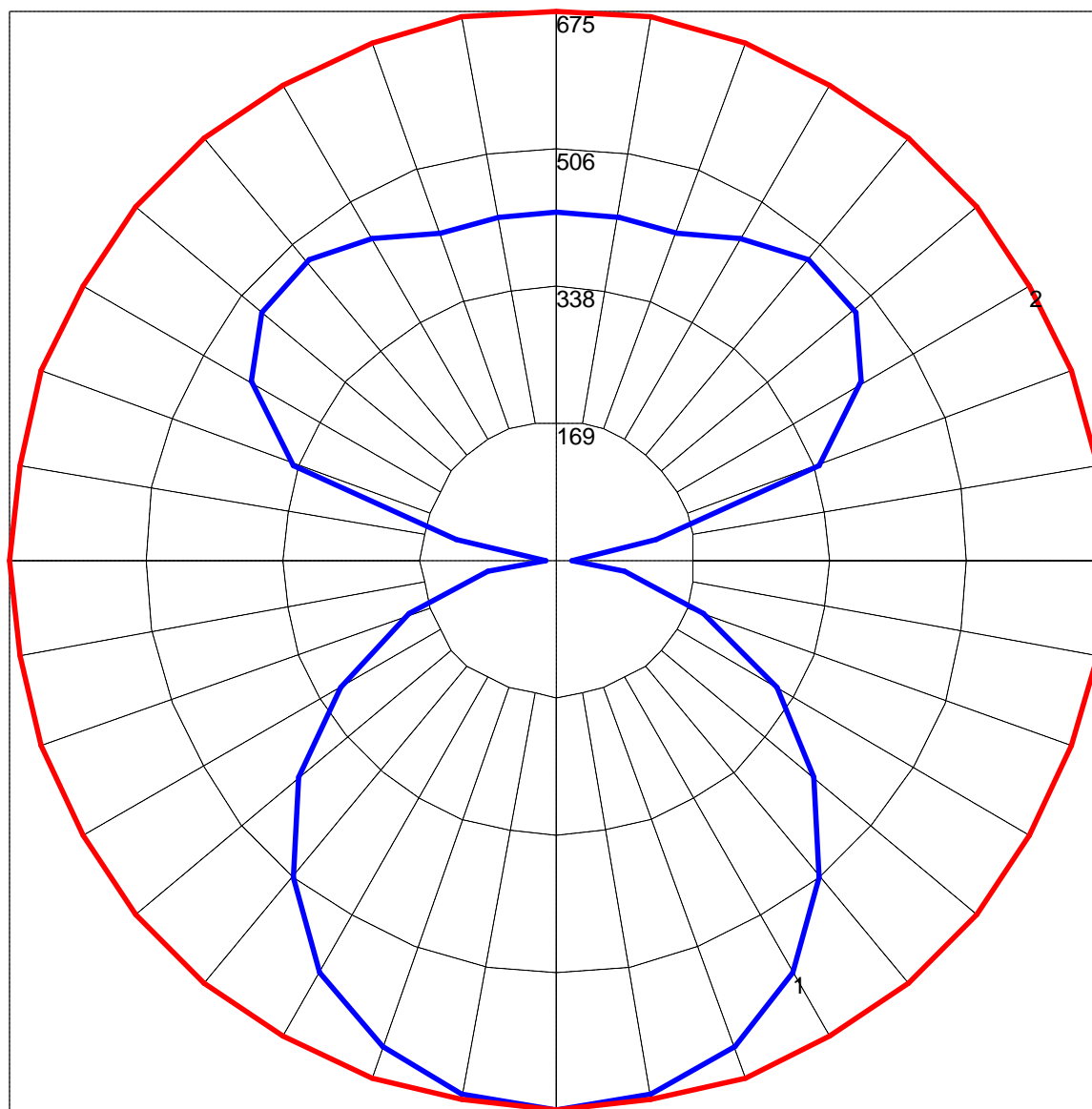
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 675.304 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.)