



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_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-35
[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	5309
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
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	3884	3378	3264
55	3630	3031	2913
65	3219	2550	2440
75	2546	1826	1743
85	1877	1010	886

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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>
0	969.124	969.124	969.124	969.124	969.124	969.124	969.124	969.124	969.124	969.124
10	956.545	952.610	950.573	949.448	947.594	946.862	946.330	945.220	944.981	944.178
20	903.465	901.723	898.749	896.588	894.555	891.783	890.588	890.241	890.153	889.374
30	820.349	818.865	815.832	812.059	809.412	808.109	805.374	804.804	804.897	805.246
40	704.538	702.772	700.749	698.072	695.587	693.812	692.116	691.504	690.933	691.930
50	568.109	566.648	563.793	562.812	559.680	558.875	558.331	557.656	558.657	559.701
60	409.256	408.979	409.988	409.849	409.791	409.593	409.608	410.426	411.251	413.071
70	242.900	243.919	245.646	247.426	248.546	250.175	251.369	252.511	253.483	255.954
80	87.721	88.880	90.989	93.354	95.342	97.774	100.232	101.150	101.650	103.387
90	12.060	12.741	13.593	14.176	15.765	22.582	22.618	23.298	19.715	13.377
100	167.081	179.805	175.930	173.757	173.282	167.914	147.782	127.156	110.651	90.444
110	487.942	490.659	479.063	460.293	420.713	386.210	341.444	289.578	229.091	200.869
120	622.149	591.654	616.706	567.370	548.493	508.211	446.699	379.009	328.638	312.751
130	682.568	650.199	628.926	643.837	607.832	545.824	489.086	447.884	424.109	417.499
140	692.806	672.099	638.311	617.693	600.057	582.292	547.467	517.367	500.990	495.720
150	657.299	649.177	617.531	593.641	576.083	558.343	552.920	552.733	551.263	552.606
160	624.310	623.534	614.832	599.777	586.197	579.779	577.503	575.474	575.926	576.240
170	625.263	626.472	625.335	623.827	620.242	614.954	611.961	608.601	605.718	605.072
180	620.789	620.789	620.789	620.789	620.789	620.789	620.789	620.789	620.789	620.789

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	352.69	N.A.	6.60
0-30	747.23	N.A.	14.10
0-40	1220.33	N.A.	23.00
0-60	2142.79	N.A.	40.40
0-80	2652.61	N.A.	50.00
0-90	2714.56	N.A.	51.10
10-90	2623.05	N.A.	49.40
20-40	867.64	N.A.	16.30
20-50	1354.43	N.A.	25.50
40-70	1249.65	N.A.	23.50
60-80	509.82	N.A.	9.60
70-80	182.63	N.A.	3.40
80-90	61.96	N.A.	1.20
90-110	377.15	N.A.	7.10
90-120	812.56	N.A.	15.30
90-130	1283.17	N.A.	24.20
90-150	2091.93	N.A.	39.40
90-180	2594.75	N.A.	48.90
110-180	2217.59	N.A.	41.80
0-180	5309.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.51
10-20	261.18
20-30	394.54
30-40	473.10
40-50	486.79
50-60	435.67
60-70	327.19
70-80	182.63
80-90	61.96
90-100	93.48
100-110	283.67
110-120	435.41
120-130	470.61
130-140	441.36
140-150	367.40
150-160	272.32
160-170	171.43
170-180	59.07

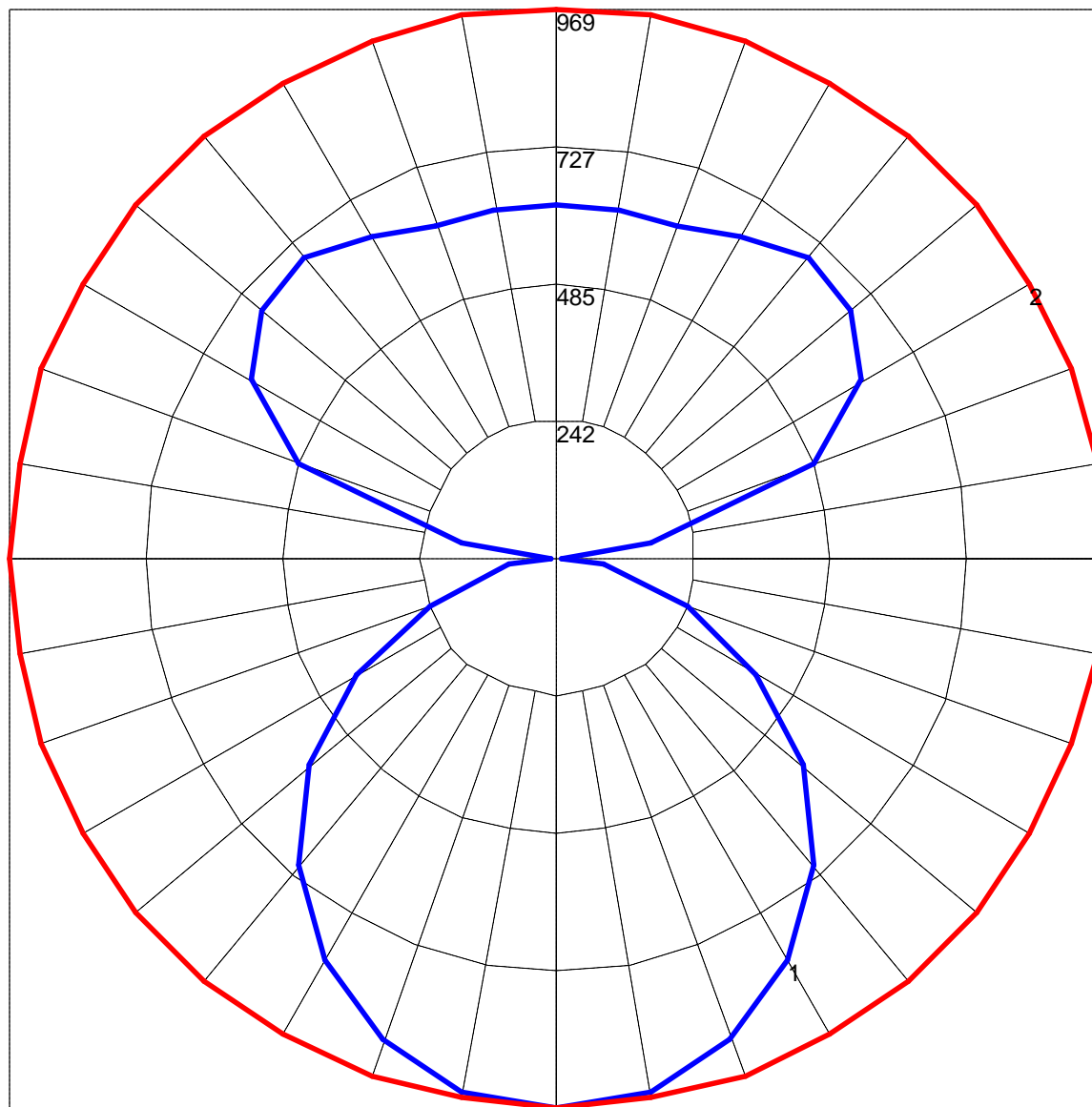
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 969.124 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.)