



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_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-40
[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	5490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
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	4017	3493	3375
55	3754	3134	3013
65	3328	2637	2523
75	2633	1889	1803
85	1941	1045	916

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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	1002.196	1002.196	1002.196	1002.196	1002.196	1002.196	1002.196	1002.196	1002.196	1002.196
10	989.188	985.119	983.012	981.849	979.932	979.175	978.625	977.477	977.230	976.399
20	934.297	932.495	929.420	927.185	925.083	922.216	920.980	920.622	920.530	919.725
30	848.344	846.810	843.673	839.771	837.034	835.687	832.858	832.269	832.365	832.726
40	728.581	726.755	724.663	721.894	719.325	717.489	715.735	715.102	714.512	715.543
50	587.496	585.986	583.033	582.019	578.780	577.947	577.385	576.687	577.722	578.801
60	423.222	422.936	423.979	423.836	423.776	423.571	423.586	424.432	425.285	427.168
70	251.189	252.243	254.029	255.870	257.028	258.713	259.947	261.128	262.133	264.689
80	90.715	91.913	94.094	96.540	98.596	101.111	103.653	104.602	105.119	106.915
90	12.472	13.176	14.057	14.660	16.303	23.353	23.390	24.093	20.388	13.834
100	172.783	185.941	181.934	179.687	179.195	173.644	152.825	131.495	114.427	93.530
110	504.594	507.403	495.412	476.001	435.070	399.390	353.096	299.460	236.909	207.724
120	643.381	611.845	637.752	586.732	567.211	525.554	461.943	391.943	339.853	323.424
130	705.861	672.388	650.389	665.809	628.575	564.451	505.777	463.169	438.582	431.747
140	716.449	695.035	660.094	638.772	620.535	602.163	566.150	535.023	518.087	512.637
150	679.730	671.331	638.605	613.900	595.742	577.397	571.789	571.596	570.075	571.464
160	645.615	644.813	635.814	620.245	606.202	599.565	597.211	595.113	595.580	595.905
170	646.601	647.851	646.675	645.116	641.408	635.940	632.845	629.370	626.389	625.721
180	641.974	641.974	641.974	641.974	641.974	641.974	641.974	641.974	641.974	641.974

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	364.73	N.A.	6.60
0-30	772.73	N.A.	14.10
0-40	1261.98	N.A.	23.00
0-60	2215.92	N.A.	40.40
0-80	2743.13	N.A.	50.00
0-90	2807.2	N.A.	51.10
10-90	2712.57	N.A.	49.40
20-40	897.25	N.A.	16.30
20-50	1400.65	N.A.	25.50
40-70	1292.29	N.A.	23.50
60-80	527.22	N.A.	9.60
70-80	188.87	N.A.	3.40
80-90	64.07	N.A.	1.20
90-110	390.02	N.A.	7.10
90-120	840.29	N.A.	15.30
90-130	1326.96	N.A.	24.20
90-150	2163.32	N.A.	39.40
90-180	2683.29	N.A.	48.90
110-180	2293.27	N.A.	41.80
0-180	5490.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.63
10-20	270.09
20-30	408.00
30-40	489.25
40-50	503.40
50-60	450.54
60-70	338.35
70-80	188.87
80-90	64.07
90-100	96.67
100-110	293.35
110-120	450.27
120-130	486.67
130-140	456.42
140-150	379.94
150-160	281.61
160-170	177.28
170-180	61.09

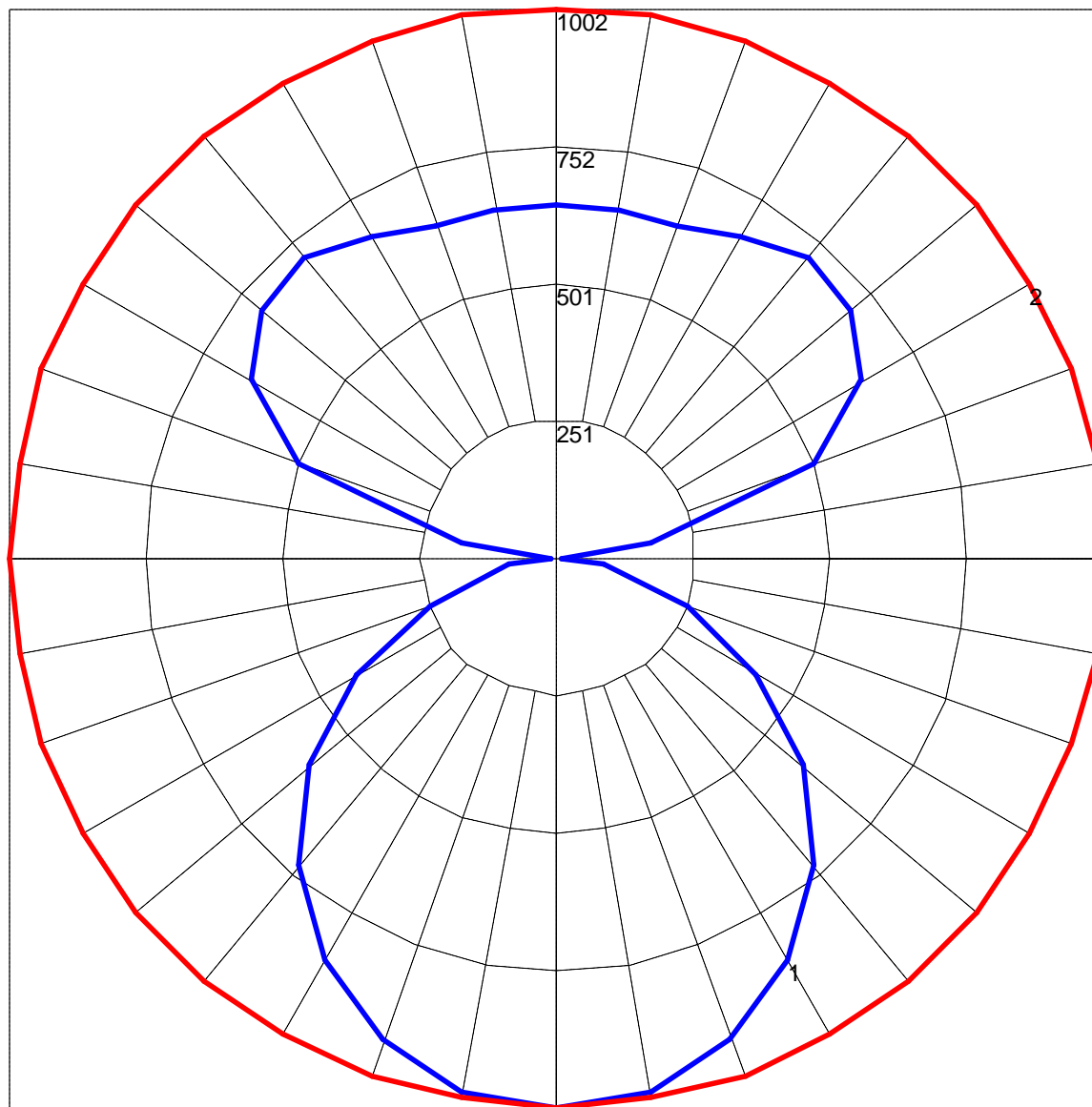
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1002.196 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.)