



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_VHO(1250)_NA_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-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	6249
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	62.9
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	1866	1551	1414
55	1826	1448	1276
65	1739	1281	1074
75	1587	1015	772
85	1461	659	417

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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	398.559	398.559	398.559	398.559	398.559	398.559	398.559	398.559	398.559	398.559
10	397.384	397.391	396.967	396.102	394.996	393.658	392.717	392.032	391.196	390.958
20	388.527	389.007	386.140	384.129	381.384	378.940	376.675	375.155	372.990	372.252
30	368.717	367.872	364.215	359.540	355.797	351.862	348.755	345.126	343.110	341.937
40	332.581	330.790	328.603	320.375	315.575	310.622	306.441	302.478	299.829	297.565
50	278.745	277.034	275.245	271.692	265.259	259.958	255.290	250.509	247.358	244.559
60	212.968	212.334	210.800	208.127	202.859	197.975	193.302	188.374	184.583	181.516
70	139.366	138.718	137.771	136.180	132.852	128.771	124.956	120.387	116.129	112.832
80	66.751	66.712	66.094	64.913	62.516	60.445	57.107	54.037	49.703	46.391
90	10.925	11.305	11.851	12.358	12.903	15.168	16.783	25.153	15.967	8.616
100	282.371	272.649	262.864	265.840	268.492	259.710	237.575	199.149	147.778	107.999
110	1030.062	1010.234	974.773	919.096	854.882	776.457	673.281	544.033	373.813	290.657
120	1310.979	1293.228	1252.120	1190.182	1112.801	1003.677	873.799	698.212	553.509	504.641
130	1408.159	1390.468	1347.262	1286.412	1195.659	1088.975	948.082	805.370	732.419	704.432
140	1393.566	1375.023	1335.253	1267.115	1184.230	1085.454	984.678	921.150	889.893	881.265
150	1279.384	1263.083	1232.189	1187.072	1132.947	1081.310	1048.349	1028.298	1014.643	1009.484
160	1181.955	1172.050	1160.760	1148.407	1135.518	1125.761	1116.016	1105.907	1098.830	1097.446
170	1184.680	1175.398	1170.815	1167.045	1163.138	1158.012	1153.282	1150.324	1148.114	1145.944
180	1172.582	1172.582	1172.582	1172.582	1172.582	1172.582	1172.582	1172.582	1172.582	1172.582

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	147.67	N.A.	2.40
0-30	317.81	N.A.	5.10
0-40	527.96	N.A.	8.40
0-60	958.74	N.A.	15.30
0-80	1221.74	N.A.	19.50
0-90	1262.32	N.A.	20.20
10-90	1224.47	N.A.	19.60
20-40	380.29	N.A.	6.10
20-50	603.75	N.A.	9.70
40-70	593.88	N.A.	9.50
60-80	263.00	N.A.	4.20
70-80	99.91	N.A.	1.60
80-90	40.57	N.A.	0.60
90-110	658.66	N.A.	10.50
90-120	1522.91	N.A.	24.40
90-130	2456.77	N.A.	39.30
90-150	4027.51	N.A.	64.40
90-180	4987.09	N.A.	79.80
110-180	4328.43	N.A.	69.30
0-180	6249.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.84
10-20	109.83
20-30	170.14
30-40	210.15
40-50	223.46
50-60	207.32
60-70	163.09
70-80	99.91
80-90	40.57
90-100	135.81
100-110	522.85
110-120	864.25
120-130	933.86
130-140	861.84
140-150	708.91
150-160	522.92
160-170	325.27
170-180	111.39

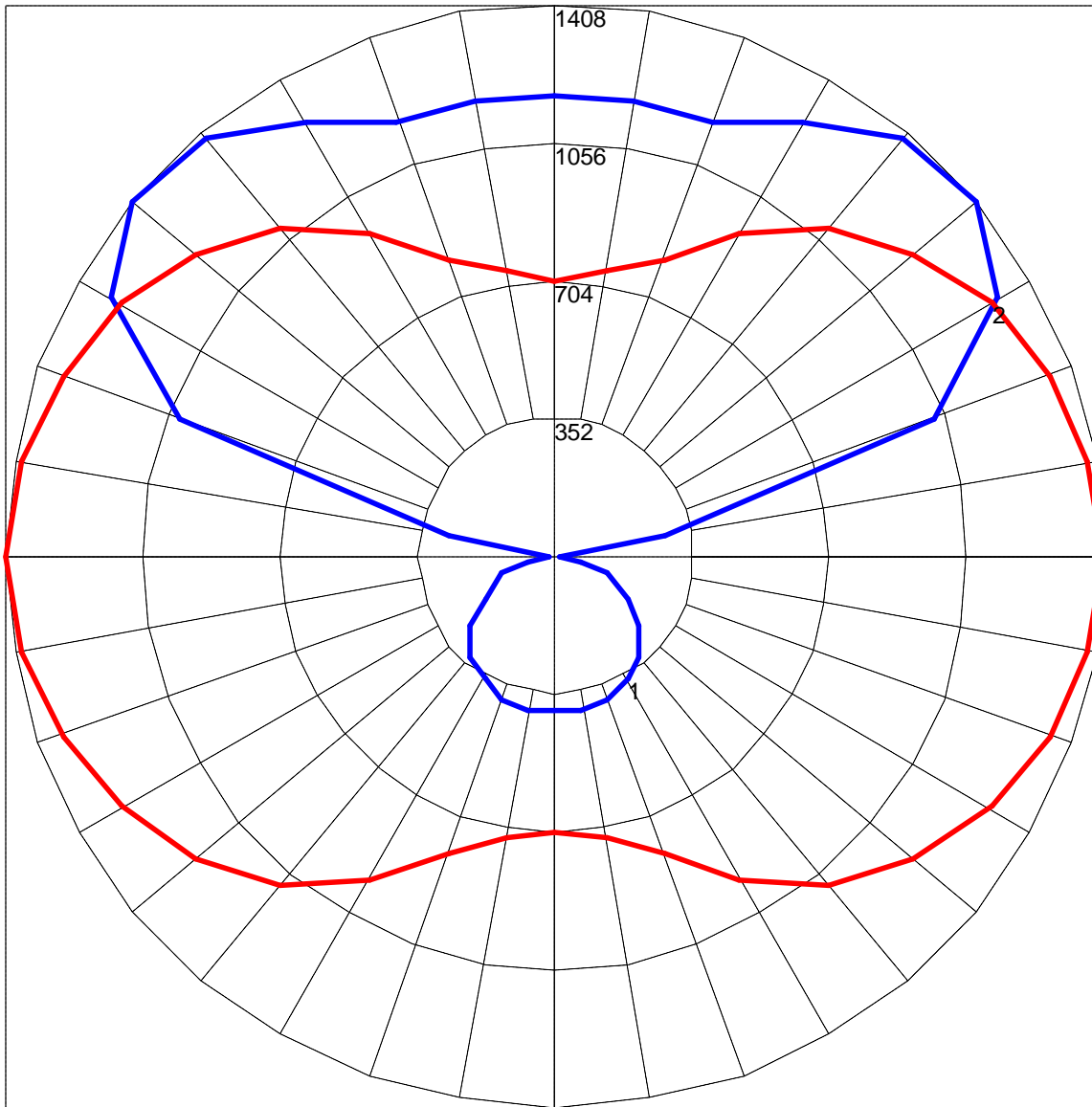
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29	20
1	91	87	83	79	80	77	74	71	58	56	54	41	40	38	25	24	24	17
2	83	75	70	65	73	67	62	58	51	47	44	36	34	32	22	21	20	14
3	75	66	59	53	66	59	53	48	44	40	37	31	29	27	19	18	17	11
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	15	14	10
5	63	52	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12	8
6	58	46	38	33	51	41	34	30	31	27	23	22	19	17	14	12	11	7
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	12	11	9	6
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	11	10	8	6
9	46	34	27	22	40	30	24	20	23	19	16	17	14	11	10	9	7	5
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7	5

POLAR GRAPH



Maximum Candela = 1408.159 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)