



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-VHO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_VHO(1250)_0100_N2S_5-12-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-12-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-0100-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	3962
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	62.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	5720	4929	4666
55	5409	4461	4156
65	4932	3803	3464
75	4113	2809	2459
85	2865	1347	1091

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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	1406.498	1406.498	1406.498	1406.498	1406.498	1406.498	1406.498	1406.498	1406.498	1406.498
10	1396.142	1387.640	1377.586	1375.171	1373.586	1371.626	1369.375	1367.175	1364.743	1361.999
20	1320.054	1309.868	1303.844	1299.182	1296.153	1293.464	1289.810	1286.816	1283.173	1279.475
30	1197.994	1190.341	1183.395	1178.484	1175.307	1170.856	1166.130	1162.054	1156.377	1153.533
40	1035.571	1023.647	1017.800	1015.364	1011.554	1006.651	1001.380	996.085	991.990	988.287
50	838.730	832.640	827.425	826.205	822.165	819.369	814.529	809.485	804.819	801.053
60	617.497	614.202	611.478	609.173	608.017	602.831	598.843	595.745	590.748	586.606
70	381.856	379.834	378.484	379.024	378.087	377.148	374.473	371.310	366.847	363.021
80	152.276	152.115	152.897	154.022	154.444	154.218	152.392	150.088	147.131	143.814
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	511.10	N.A.	12.90
0-30	1082.51	N.A.	27.30
0-40	1767.77	N.A.	44.60
0-60	3114.11	N.A.	78.60
0-80	3878.74	N.A.	97.90
0-90	3961.5	N.A.	100.00
10-90	3828.8	N.A.	96.70
20-40	1256.67	N.A.	31.70
20-50	1964.55	N.A.	49.60
40-70	1832.21	N.A.	46.30
60-80	764.63	N.A.	19.30
70-80	278.76	N.A.	7.00
80-90	82.76	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3961.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.71
10-20	378.40
20-30	571.40
30-40	685.26
40-50	707.88
50-60	638.46
60-70	485.87
70-80	278.76
80-90	82.76
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

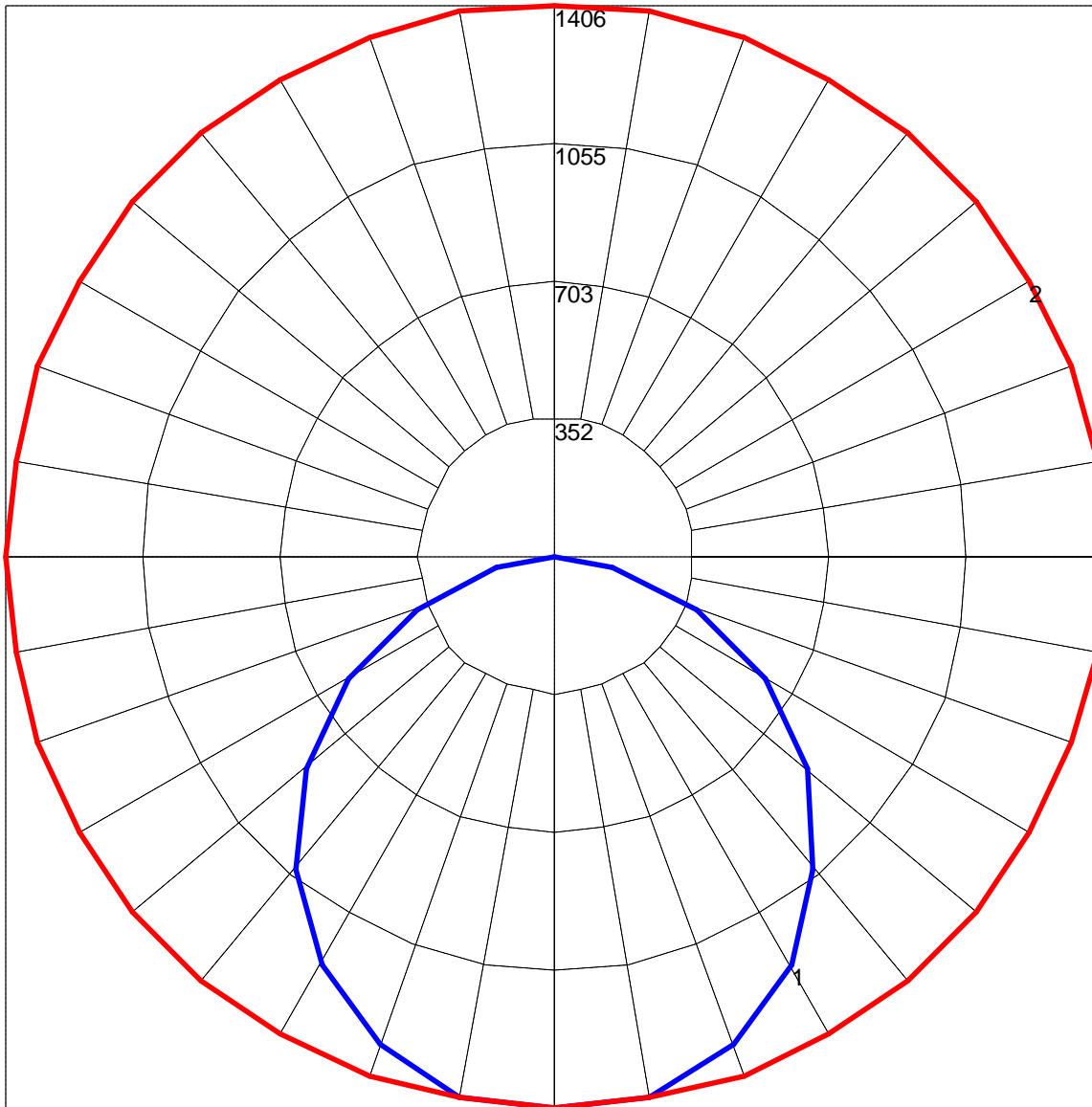
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1406.498 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.)