



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-2080-FL-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_VHO(1250)_2080_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-2080-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	5002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	62.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
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	5256	4593	4484
55	4881	4098	3997
65	4304	3410	3333
75	3341	2389	2353
85	2389	1267	1163

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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	1342.441	1342.441	1342.441	1342.441	1342.441	1342.441	1342.441	1342.441	1342.441	1342.441
10	1323.458	1317.776	1313.493	1310.289	1309.394	1308.053	1307.210	1306.980	1305.871	1305.340
20	1244.995	1237.512	1234.158	1232.186	1230.136	1228.299	1226.336	1227.660	1227.877	1228.984
30	1116.678	1111.075	1107.219	1105.693	1103.594	1102.193	1102.073	1101.329	1102.700	1104.704
40	957.752	952.171	951.006	947.928	946.669	946.534	946.150	947.653	949.224	951.577
50	764.332	760.399	759.404	758.677	758.006	759.282	760.409	762.101	764.150	767.898
60	549.891	548.104	548.964	549.541	550.583	552.539	554.370	556.727	561.440	566.553
70	322.166	321.263	323.677	325.549	328.453	331.288	335.153	339.056	343.412	347.253
80	111.634	112.340	114.673	117.154	120.216	124.978	127.955	130.885	134.365	137.647
90	15.315	16.232	17.332	18.401	20.211	24.965	27.353	26.831	23.541	15.593
100	89.454	89.318	98.480	110.174	117.962	119.824	113.160	96.997	78.624	61.279
110	218.723	222.815	217.252	203.387	199.654	189.530	176.381	157.179	133.897	118.666
120	293.929	269.998	285.762	278.363	261.865	236.617	231.863	212.674	181.640	172.672
130	325.402	299.032	307.495	306.559	297.833	276.517	262.355	235.864	220.699	216.318
140	335.643	320.462	303.560	309.361	308.141	293.767	279.083	267.407	258.445	257.340
150	331.616	327.505	307.027	292.893	293.772	290.800	289.383	287.089	284.785	284.022
160	312.174	309.567	305.429	296.585	289.545	286.830	285.246	285.824	285.900	285.695
170	309.873	308.794	308.832	309.126	307.963	305.447	303.017	301.706	301.550	303.009
180	310.846	310.846	310.846	310.846	310.846	310.846	310.846	310.846	310.846	310.846

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	486.85	N.A.	9.70
0-30	1027.57	N.A.	20.50
0-40	1672.82	N.A.	33.40
0-60	2924.58	N.A.	58.50
0-80	3604.07	N.A.	72.00
0-90	3682.72	N.A.	73.60
10-90	3556.11	N.A.	71.10
20-40	1185.97	N.A.	23.70
20-50	1848.15	N.A.	36.90
40-70	1690.89	N.A.	33.80
60-80	679.49	N.A.	13.60
70-80	240.37	N.A.	4.80
80-90	78.65	N.A.	1.60
90-110	217.05	N.A.	4.30
90-120	429.96	N.A.	8.60
90-130	662.69	N.A.	13.20
90-150	1068.31	N.A.	21.40
90-180	1319.66	N.A.	26.40
110-180	1102.61	N.A.	22.00
0-180	5002.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.61
10-20	360.23
20-30	540.72
30-40	645.25
40-50	662.17
50-60	589.59
60-70	439.13
70-80	240.37
80-90	78.65
90-100	66.08
100-110	150.97
110-120	212.91
120-130	232.73
130-140	220.03
140-150	185.59
150-160	136.93
160-170	84.99
170-180	29.43

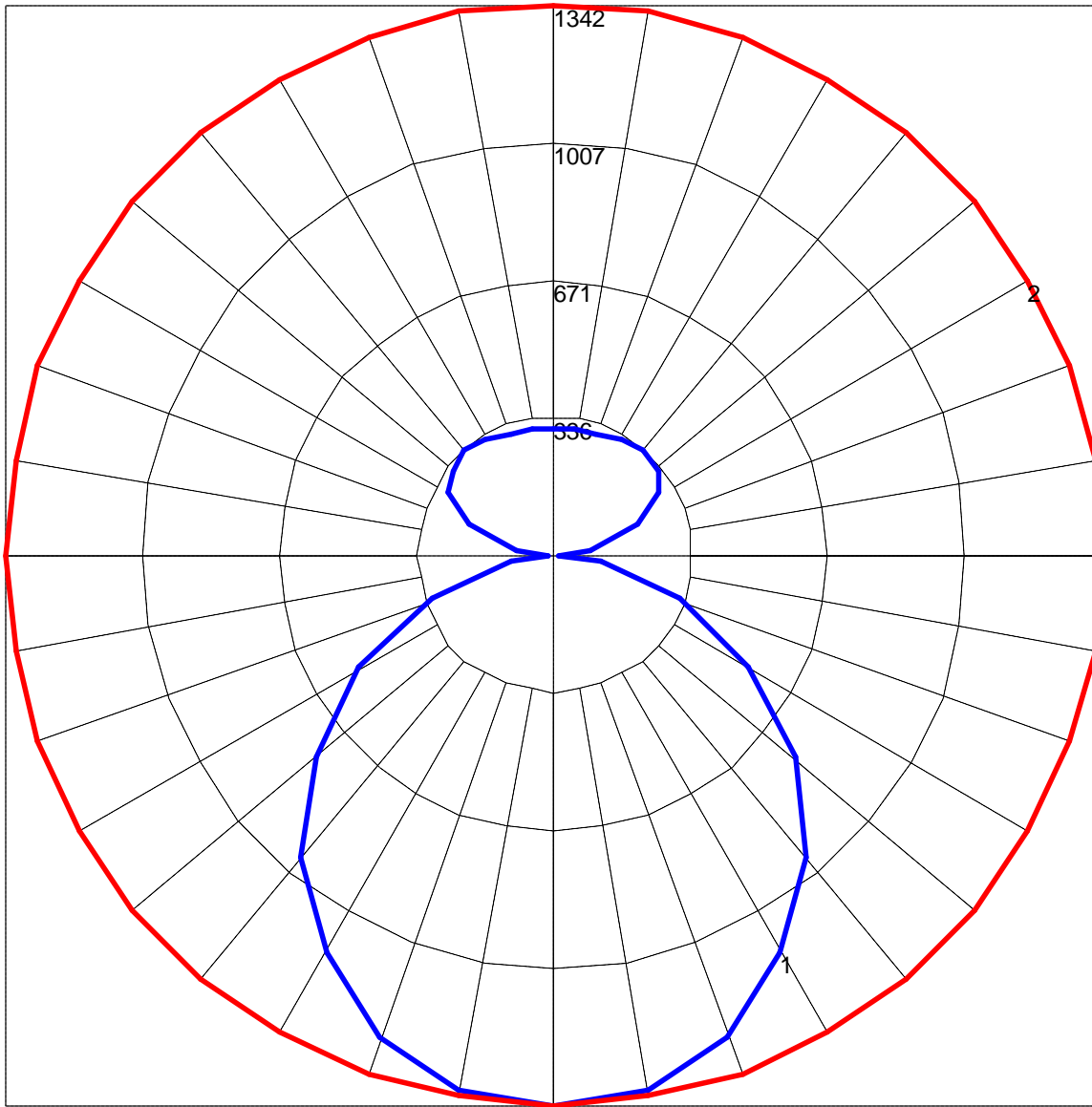
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	96	96	96	87	87	87	78	78	78	74
1	103	98	94	91	98	94	90	87	84	82	79	76	74	72	69	67	65	62
2	94	86	79	74	89	82	76	71	74	69	65	67	63	60	60	57	55	51
3	85	75	68	61	81	72	65	59	65	59	55	59	54	51	53	50	47	43
4	78	67	58	52	74	64	56	50	58	52	47	52	47	43	47	43	40	37
5	72	59	51	45	68	57	49	43	52	45	40	47	42	38	43	38	35	32
6	66	53	45	39	63	51	43	38	47	40	35	43	37	33	39	34	31	28
7	61	48	40	34	58	46	39	33	42	36	31	39	33	29	35	31	27	25
8	57	44	36	30	54	42	35	29	39	32	28	35	30	26	32	28	24	22
9	53	40	32	27	50	39	31	26	36	29	25	33	27	23	30	25	22	20
10	50	37	29	24	47	36	29	24	33	27	22	30	25	21	28	23	20	18

POLAR GRAPH



Maximum Candela = 1342.441 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.)