



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-2080-FL-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L250_3500K_VHO(1250)_2080_N2S_5-12-2016

[TESTLAB] Orb Optronix, Inc.

[ISSUE DATE] 05-12-2016

[TEST DATE] 01-12-2017

[MANUFACT] LSI INDUSTRIES, INC

[LUMCAT] HRZ-4-LED-2080-FL-VHO-35

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4837
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	5082	4442	4336
55	4720	3963	3865
65	4162	3297	3223
75	3230	2310	2275
85	2310	1226	1124

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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	1298.140	1298.140	1298.140	1298.140	1298.140	1298.140	1298.140	1298.140	1298.140	1298.140
10	1279.784	1274.289	1270.148	1267.049	1266.184	1264.887	1264.072	1263.850	1262.777	1262.264
20	1203.910	1196.674	1193.431	1191.524	1189.542	1187.765	1185.867	1187.147	1187.357	1188.428
30	1079.828	1074.410	1070.681	1069.205	1067.175	1065.821	1065.705	1064.985	1066.311	1068.249
40	926.146	920.749	919.623	916.646	915.429	915.298	914.927	916.380	917.900	920.175
50	739.109	735.306	734.344	733.641	732.992	734.226	735.316	736.952	738.933	742.557
60	531.745	530.017	530.848	531.406	532.414	534.305	536.076	538.355	542.912	547.857
70	311.535	310.661	312.996	314.806	317.614	320.355	324.093	327.867	332.079	335.794
80	107.950	108.633	110.889	113.288	116.249	120.854	123.732	126.566	129.931	133.105
90	14.810	15.696	16.760	17.794	19.544	24.141	26.450	25.946	22.764	15.078
100	86.502	86.371	95.230	106.538	114.069	115.870	109.426	93.796	76.029	59.257
110	211.505	215.462	210.083	196.675	193.065	183.276	170.560	151.992	129.478	114.750
120	284.229	261.088	276.332	269.177	253.223	228.809	224.212	205.656	175.646	166.974
130	314.664	289.164	297.348	296.443	288.005	267.392	253.697	228.080	213.416	209.180
140	324.567	309.887	293.543	299.152	297.972	284.073	269.873	258.583	249.916	248.848
150	320.673	316.697	296.895	283.228	284.078	281.204	279.833	277.615	275.387	274.649
160	301.872	299.351	295.350	286.798	279.990	277.365	275.833	276.392	276.465	276.267
170	299.647	298.604	298.641	298.925	297.800	295.367	293.017	291.750	291.599	293.010
180	300.588	300.588	300.588	300.588	300.588	300.588	300.588	300.588	300.588	300.588

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	470.78	N.A.	9.70
0-30	993.66	N.A.	20.50
0-40	1617.62	N.A.	33.40
0-60	2828.07	N.A.	58.50
0-80	3485.14	N.A.	72.00
0-90	3561.19	N.A.	73.60
10-90	3438.76	N.A.	71.10
20-40	1146.83	N.A.	23.70
20-50	1787.16	N.A.	36.90
40-70	1635.09	N.A.	33.80
60-80	657.07	N.A.	13.60
70-80	232.44	N.A.	4.80
80-90	76.05	N.A.	1.60
90-110	209.89	N.A.	4.30
90-120	415.77	N.A.	8.60
90-130	640.82	N.A.	13.20
90-150	1033.05	N.A.	21.40
90-180	1276.11	N.A.	26.40
110-180	1066.22	N.A.	22.00
0-180	4837.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.44
10-20	348.35
20-30	522.88
30-40	623.96
40-50	640.32
50-60	570.13
60-70	424.63
70-80	232.44
80-90	76.05
90-100	63.90
100-110	145.99
110-120	205.88
120-130	225.05
130-140	212.76
140-150	179.47
150-160	132.41
160-170	82.18
170-180	28.46

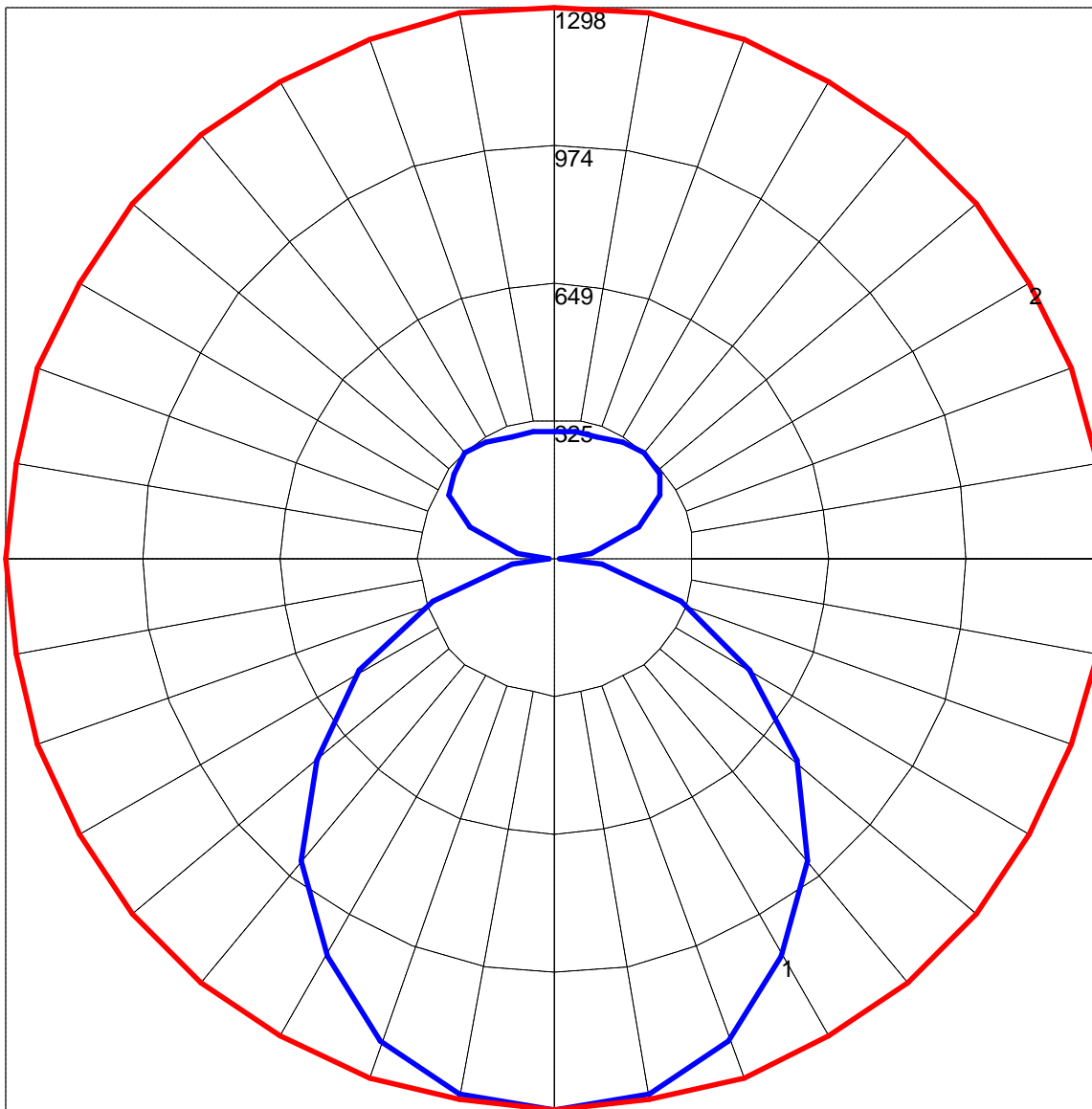
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1298.14 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.)