



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-2080-FL-VHO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_VHO(1250)_2080_N2S_5-12-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 05-12-2016
[TESTDATE] 01-12-2017
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] HRZ-4-LED-2080-FL-VHO-30
[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	4692
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	4930	4309	4206
55	4579	3844	3749
65	4037	3199	3126
75	3133	2241	2207
85	2240	1189	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	1259.210	1259.210	1259.210	1259.210	1259.210	1259.210	1259.210	1259.210	1259.210	1259.210
10	1241.404	1236.074	1232.056	1229.051	1228.212	1226.954	1226.163	1225.947	1224.907	1224.409
20	1167.805	1160.786	1157.640	1155.790	1153.868	1152.144	1150.303	1151.545	1151.749	1152.787
30	1047.444	1042.188	1038.571	1037.140	1035.171	1033.857	1033.744	1033.047	1034.333	1036.212
40	898.371	893.136	892.044	889.156	887.976	887.849	887.489	888.899	890.372	892.579
50	716.943	713.254	712.321	711.639	711.010	712.207	713.264	714.851	716.773	720.288
60	515.798	514.122	514.928	515.469	516.447	518.282	519.999	522.210	526.631	531.427
70	302.192	301.345	303.609	305.365	308.089	310.748	314.374	318.035	322.120	325.723
80	104.713	105.375	107.563	109.890	112.763	117.229	120.022	122.770	126.034	129.113
90	14.365	15.226	16.257	17.260	18.958	23.417	25.657	25.167	22.081	14.626
100	83.908	83.780	92.374	103.343	110.648	112.395	106.144	90.983	73.749	57.480
110	205.162	209.000	203.782	190.777	187.275	177.779	165.445	147.434	125.595	111.309
120	275.705	253.258	268.045	261.105	245.629	221.947	217.487	199.488	170.378	161.966
130	305.227	280.492	288.430	287.552	279.367	259.373	246.089	221.240	207.016	202.906
140	314.833	300.593	284.739	290.181	289.036	275.553	261.780	250.828	242.421	241.385
150	311.056	307.200	287.991	274.734	275.558	272.770	271.441	269.289	267.128	266.413
160	292.819	290.374	286.492	278.197	271.593	269.047	267.561	268.103	268.174	267.982
170	290.661	289.649	289.684	289.960	288.869	286.509	284.230	283.000	282.854	284.222
180	291.574	291.574	291.574	291.574	291.574	291.574	291.574	291.574	291.574	291.574

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	456.66	N.A.	9.70
0-30	963.86	N.A.	20.50
0-40	1569.1	N.A.	33.40
0-60	2743.25	N.A.	58.50
0-80	3380.62	N.A.	72.00
0-90	3454.39	N.A.	73.60
10-90	3335.63	N.A.	71.10
20-40	1112.44	N.A.	23.70
20-50	1733.56	N.A.	36.90
40-70	1586.05	N.A.	33.80
60-80	637.36	N.A.	13.60
70-80	225.46	N.A.	4.80
80-90	73.77	N.A.	1.60
90-110	203.60	N.A.	4.30
90-120	403.30	N.A.	8.60
90-130	621.60	N.A.	13.20
90-150	1002.07	N.A.	21.40
90-180	1237.84	N.A.	26.40
110-180	1034.24	N.A.	22.00
0-180	4692.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.76
10-20	337.90
20-30	507.20
30-40	605.24
40-50	621.12
50-60	553.03
60-70	411.90
70-80	225.46
80-90	73.77
90-100	61.99
100-110	141.61
110-120	199.71
120-130	218.30
130-140	206.38
140-150	174.08
150-160	128.44
160-170	79.72
170-180	27.61

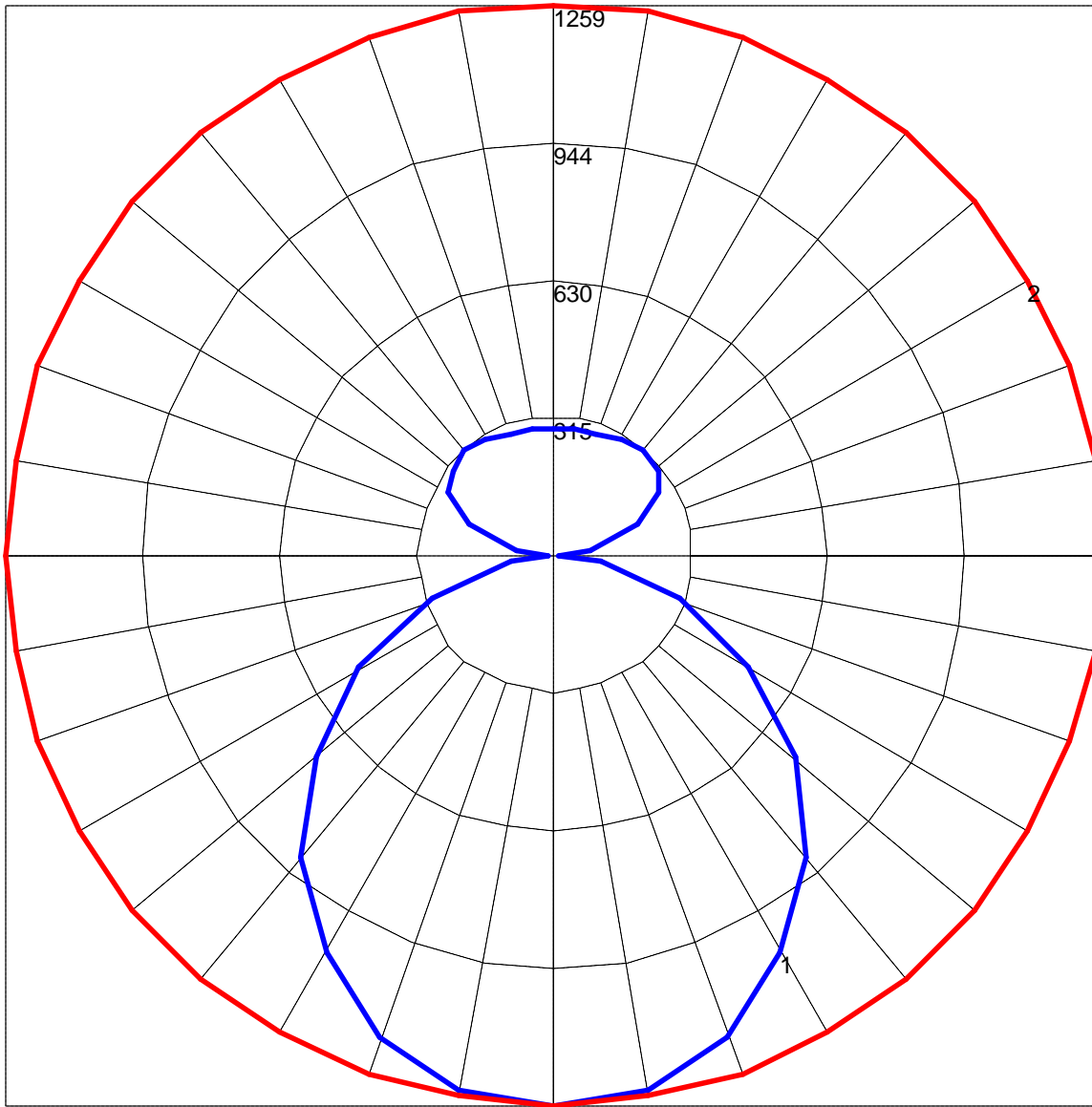
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1259.21 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.)