



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_HO(950)_2080_N2S_5-16-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-16-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-2080-FL-HO-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	4415
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	44.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.40
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	4652	4013	3710
55	4497	3699	3338
65	4224	3255	2823
75	3789	2573	2071
85	3511	1669	1195

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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	1094.896	1094.896	1094.896	1094.896	1094.896	1094.896	1094.896	1094.896	1094.896	1094.896
10	1091.257	1085.097	1083.391	1081.170	1079.502	1077.418	1075.323	1072.546	1070.853	1068.280
20	1040.909	1029.992	1029.014	1026.146	1022.007	1023.498	1014.204	1009.627	1006.481	1002.006
30	952.180	947.347	945.093	941.421	936.450	931.775	924.828	920.342	912.648	908.946
40	835.107	832.100	829.846	825.192	819.554	813.504	807.393	800.508	793.117	783.590
50	689.264	686.457	685.162	681.426	676.486	669.901	662.479	654.178	646.635	638.976
60	521.326	519.946	519.434	517.217	512.297	506.365	499.521	491.816	483.571	475.438
70	334.569	338.734	339.993	337.266	334.430	329.440	322.555	315.043	306.999	298.683
80	157.526	158.767	159.568	159.283	157.399	153.557	148.840	143.028	135.710	128.127
90	29.078	30.394	31.810	33.296	34.902	36.456	37.811	37.752	36.106	29.381
100	86.761	90.780	97.570	104.058	111.734	113.643	109.041	98.785	86.667	67.149
110	188.185	194.250	189.078	188.199	176.777	171.443	159.643	144.163	124.216	113.357
120	245.302	227.402	239.980	228.461	228.782	214.482	193.698	178.826	159.664	152.642
130	272.391	252.518	265.546	256.793	241.279	225.611	220.502	207.206	198.557	192.793
140	276.418	269.437	245.642	267.749	260.475	241.209	226.509	219.253	216.465	216.579
150	268.944	267.476	253.201	237.849	245.568	253.107	248.391	242.158	240.488	239.766
160	254.886	253.450	252.579	246.975	239.692	234.886	234.818	236.444	237.658	237.476
170	252.394	251.600	252.204	254.072	254.232	254.115	253.118	252.372	251.844	253.045
180	251.857	251.857	251.857	251.857	251.857	251.857	251.857	251.857	251.857	251.857

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	401.17	N.A.	9.10
0-30	853.05	N.A.	19.30
0-40	1401.71	N.A.	31.80
0-60	2503.51	N.A.	56.70
0-80	3169.26	N.A.	71.80
0-90	3270.29	N.A.	74.10
10-90	3166.56	N.A.	71.70
20-40	1000.54	N.A.	22.70
20-50	1575.24	N.A.	35.70
40-70	1514.82	N.A.	34.30
60-80	665.75	N.A.	15.10
70-80	252.73	N.A.	5.70
80-90	101.03	N.A.	2.30
90-110	212.89	N.A.	4.80
90-120	398.67	N.A.	9.00
90-130	596.58	N.A.	13.50
90-150	936.13	N.A.	21.20
90-180	1144.24	N.A.	25.90
110-180	931.35	N.A.	21.10
0-180	4414.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.72
10-20	297.44
20-30	451.88
30-40	548.66
40-50	574.70
50-60	527.10
60-70	413.02
70-80	252.73
80-90	101.03
90-100	72.56
100-110	140.34
110-120	185.77
120-130	197.92
130-140	184.74
140-150	154.81
150-160	113.79
160-170	70.22
170-180	24.09

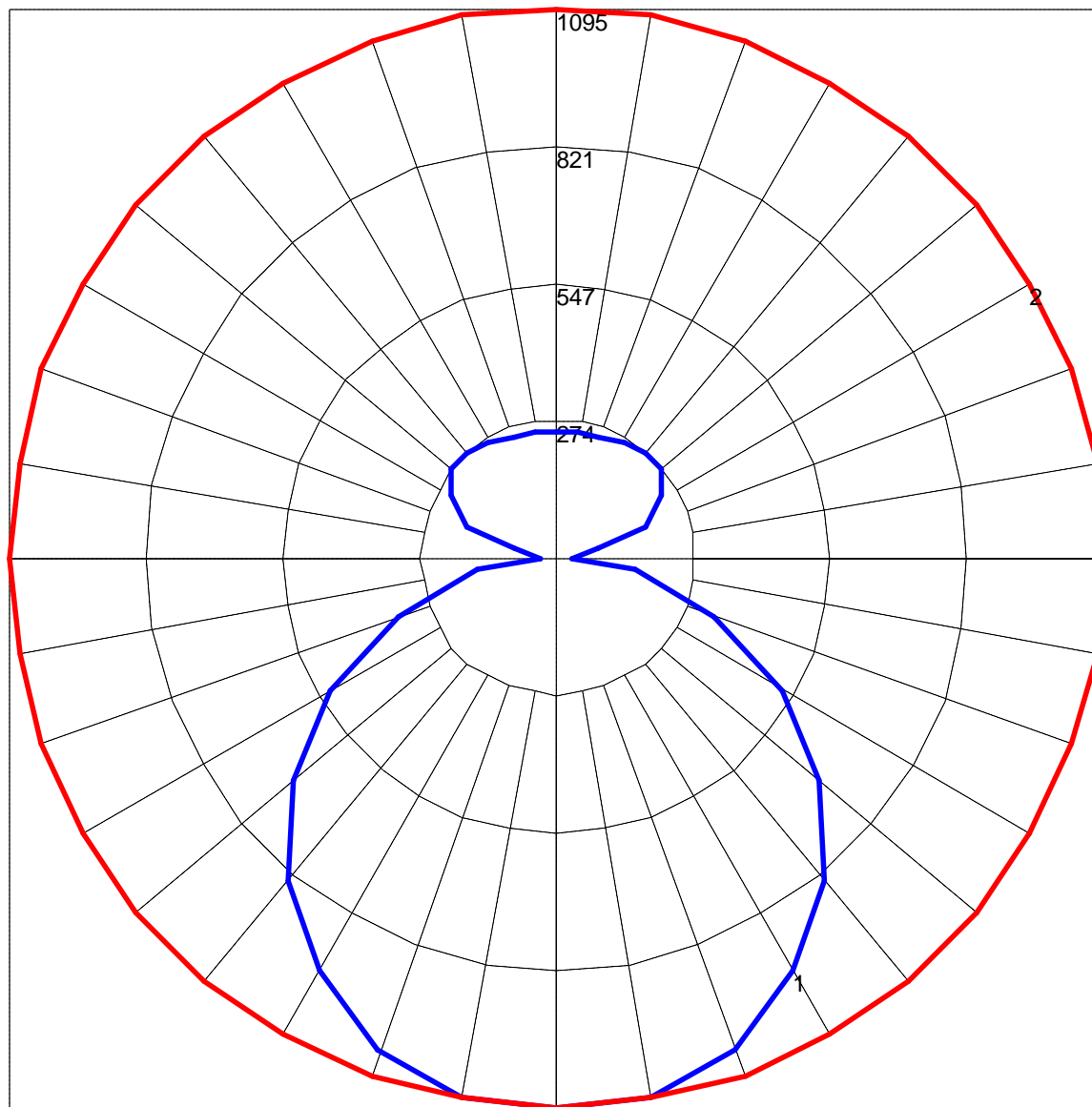
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	97	97	87	87	87	78	78	78	74
1	102	98	93	90	97	93	89	86	84	81	78	76	73	71	68	66	65	61
2	93	85	78	72	88	81	75	70	73	68	64	66	62	59	59	56	54	50
3	85	74	66	60	80	71	64	58	64	58	53	58	53	49	52	49	45	42
4	77	66	57	51	73	63	55	49	57	50	45	51	46	42	47	42	39	36
5	71	58	50	43	67	56	48	42	51	44	39	46	41	36	42	37	34	31
6	65	52	44	38	62	50	42	36	46	39	34	42	36	32	38	33	29	27
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	30	26	24
8	56	43	35	29	53	41	34	28	38	31	27	35	29	25	32	27	23	21
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21	19
10	49	36	29	23	46	35	28	23	32	26	22	29	24	20	27	22	19	17

POLAR GRAPH



Maximum Candela = 1094.896 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.)