



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-2080-FL-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_SS(750)_2080_N2S_5-17-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-17-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-2080-FL-SS-35
[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	3333
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	36.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
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	3511	3073	2930
55	3317	2783	2608
65	3011	2370	2174
75	2496	1743	1543
85	1865	957	761

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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	867.792	867.792	867.792	867.792	867.792	867.792	867.792	867.792	867.792	867.792
10	854.799	853.516	851.949	851.181	851.141	850.096	849.393	848.502	848.689	848.837
20	808.860	809.684	807.521	806.536	805.221	799.811	802.106	800.918	796.548	795.612
30	733.659	732.832	731.630	730.397	729.070	726.608	724.428	721.591	721.442	719.555
40	635.770	634.848	634.948	633.332	630.531	629.091	625.967	623.766	621.719	621.753
50	514.529	515.029	515.289	513.658	512.202	510.027	507.522	504.845	502.908	501.649
60	378.408	378.977	380.112	380.162	379.023	377.999	374.812	372.928	371.174	369.066
70	231.707	232.989	234.593	234.963	234.924	233.418	232.104	230.391	228.770	227.028
80	92.481	93.971	94.722	95.895	96.305	95.679	95.396	94.278	92.713	91.012
90	6.649	7.259	8.260	9.650	12.234	15.123	16.317	16.508	14.331	9.346
100	73.370	76.132	81.464	85.156	88.413	86.632	79.344	68.730	56.521	39.597
110	148.364	153.245	145.008	148.309	134.153	130.530	118.796	104.713	87.227	76.835
120	193.020	173.626	197.365	170.764	169.822	167.403	145.324	130.894	114.904	107.232
130	211.352	186.471	202.241	210.666	181.720	171.428	160.500	149.370	144.723	141.975
140	216.878	204.222	191.146	202.469	204.019	197.467	173.166	163.516	162.065	160.393
150	210.629	207.234	189.113	184.157	189.047	188.506	186.643	187.558	189.129	189.427
160	198.677	197.747	193.549	184.781	180.345	180.302	182.655	182.745	183.457	183.250
170	198.847	198.483	198.820	198.743	197.306	194.785	192.267	190.021	189.333	189.244
180	197.734	197.734	197.734	197.734	197.734	197.734	197.734	197.734	197.734	197.734

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	316.46	N.A.	9.50
0-30	670.69	N.A.	20.10
0-40	1096.73	N.A.	32.90
0-60	1935.51	N.A.	58.10
0-80	2410.65	N.A.	72.30
0-90	2468.74	N.A.	74.10
10-90	2386.72	N.A.	71.60
20-40	780.27	N.A.	23.40
20-50	1221.38	N.A.	36.60
40-70	1141.00	N.A.	34.20
60-80	475.14	N.A.	14.30
70-80	172.92	N.A.	5.20
80-90	58.09	N.A.	1.70
90-110	154.26	N.A.	4.60
90-120	295.14	N.A.	8.90
90-130	444.87	N.A.	13.30
90-150	704.53	N.A.	21.10
90-180	864.66	N.A.	25.90
110-180	710.40	N.A.	21.30
0-180	3333.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.02
10-20	234.44
20-30	354.22
30-40	426.04
40-50	441.11
50-60	397.67
60-70	302.22
70-80	172.92
80-90	58.09
90-100	47.68
100-110	106.58
110-120	140.89
120-130	149.73
130-140	140.71
140-150	118.94
150-160	87.38
160-170	54.02
170-180	18.74

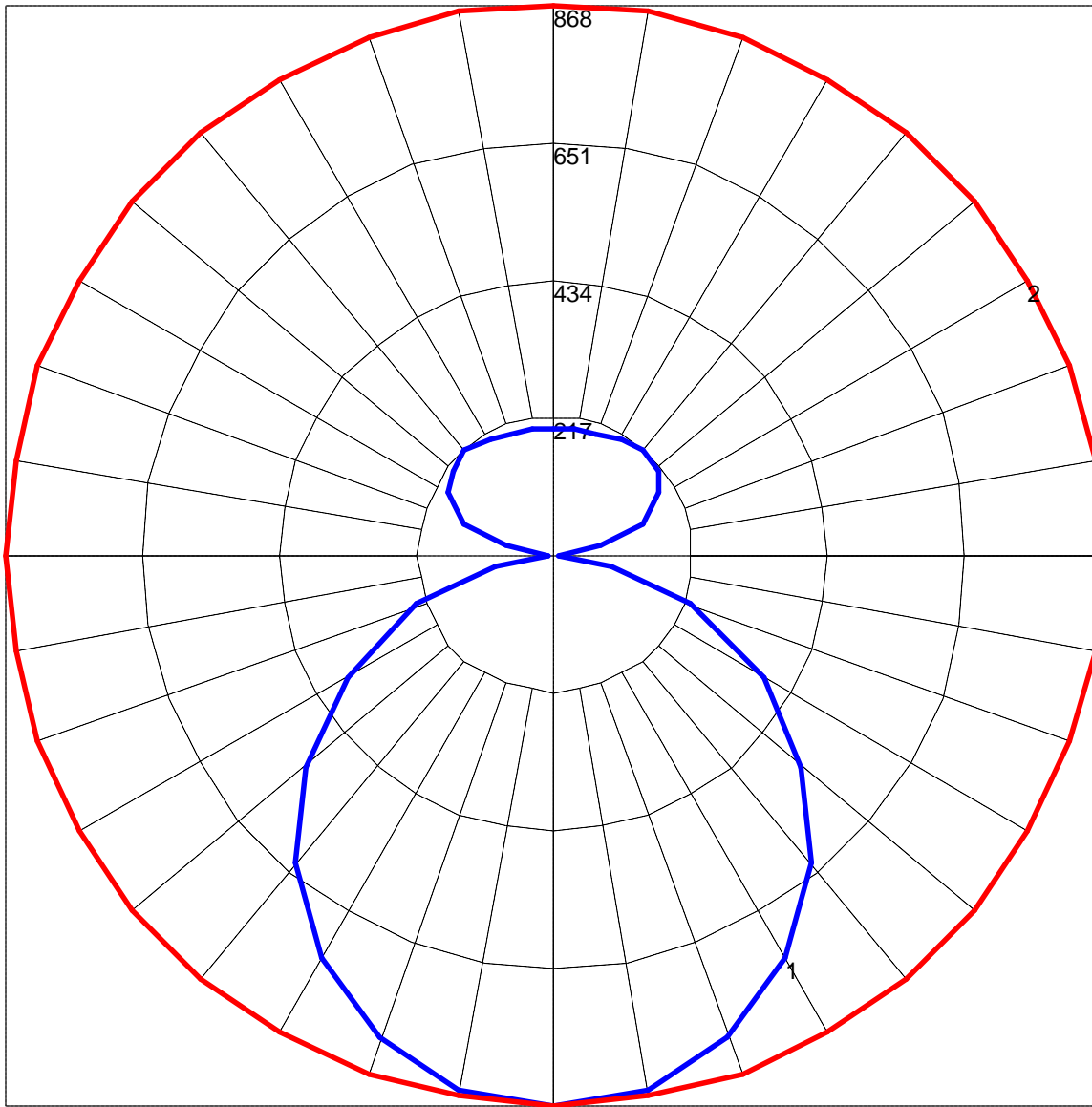
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	98	94	90	98	93	90	86	84	82	79	76	74	72	69	67	65	62
2	93	86	79	73	88	81	76	71	74	69	65	67	63	60	60	57	55	51
3	85	75	67	61	81	71	64	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	51	74	63	56	50	58	51	46	52	47	43	47	43	40	37
5	71	59	50	44	68	56	49	43	51	45	40	47	41	37	42	38	34	32
6	66	53	44	38	62	51	43	37	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	25
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	28	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

POLAR GRAPH



Maximum Candela = 867.792 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.)