



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_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-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	3447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
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	3631	3178	3029
55	3430	2877	2697
65	3114	2451	2248
75	2582	1803	1596
85	1929	990	787

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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	897.406	897.406	897.406	897.406	897.406	897.406	897.406	897.406	897.406	897.406
10	883.970	882.643	881.023	880.229	880.187	879.107	878.380	877.458	877.652	877.805
20	836.463	837.315	835.079	834.060	832.700	827.105	829.479	828.250	823.731	822.763
30	758.696	757.841	756.598	755.323	753.950	751.404	749.150	746.216	746.062	744.111
40	657.466	656.513	656.616	654.945	652.049	650.559	647.329	645.053	642.936	642.971
50	532.088	532.605	532.874	531.187	529.681	527.432	524.842	522.073	520.070	518.768
60	391.322	391.910	393.084	393.135	391.958	390.899	387.603	385.655	383.841	381.661
70	239.614	240.940	242.599	242.981	242.941	241.384	240.025	238.253	236.577	234.776
80	95.637	97.178	97.955	99.168	99.592	98.944	98.651	97.495	95.877	94.118
90	6.876	7.507	8.542	9.979	12.651	15.639	16.874	17.071	14.820	9.665
100	75.874	78.730	84.244	88.062	91.430	89.588	82.052	71.075	58.450	40.948
110	153.427	158.475	149.957	153.370	138.731	134.984	122.850	108.286	90.204	79.457
120	199.607	179.551	204.100	176.592	175.617	173.116	150.283	135.361	118.825	110.891
130	218.565	192.835	209.143	217.855	187.921	177.278	165.977	154.467	149.662	146.820
140	224.279	211.191	197.669	209.378	210.981	204.206	179.075	169.096	167.596	165.867
150	217.817	214.306	195.567	190.442	195.498	194.939	193.012	193.959	195.583	195.891
160	205.457	204.495	200.154	191.087	186.499	186.455	188.888	188.981	189.718	189.504
170	205.633	205.256	205.605	205.525	204.039	201.432	198.828	196.506	195.794	195.702
180	204.482	204.482	204.482	204.482	204.482	204.482	204.482	204.482	204.482	204.482

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	327.26	N.A.	9.50
0-30	693.57	N.A.	20.10
0-40	1134.16	N.A.	32.90
0-60	2001.56	N.A.	58.10
0-80	2492.92	N.A.	72.30
0-90	2552.99	N.A.	74.10
10-90	2468.17	N.A.	71.60
20-40	806.90	N.A.	23.40
20-50	1263.06	N.A.	36.60
40-70	1179.94	N.A.	34.20
60-80	491.36	N.A.	14.30
70-80	178.82	N.A.	5.20
80-90	60.07	N.A.	1.70
90-110	159.52	N.A.	4.60
90-120	305.22	N.A.	8.90
90-130	460.05	N.A.	13.30
90-150	728.57	N.A.	21.10
90-180	894.17	N.A.	25.90
110-180	734.65	N.A.	21.30
0-180	3447.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.82
10-20	242.44
20-30	366.31
30-40	440.58
40-50	456.17
50-60	411.24
60-70	312.53
70-80	178.82
80-90	60.07
90-100	49.30
100-110	110.22
110-120	145.69
120-130	154.84
130-140	145.51
140-150	123.00
150-160	90.36
160-170	55.87
170-180	19.38

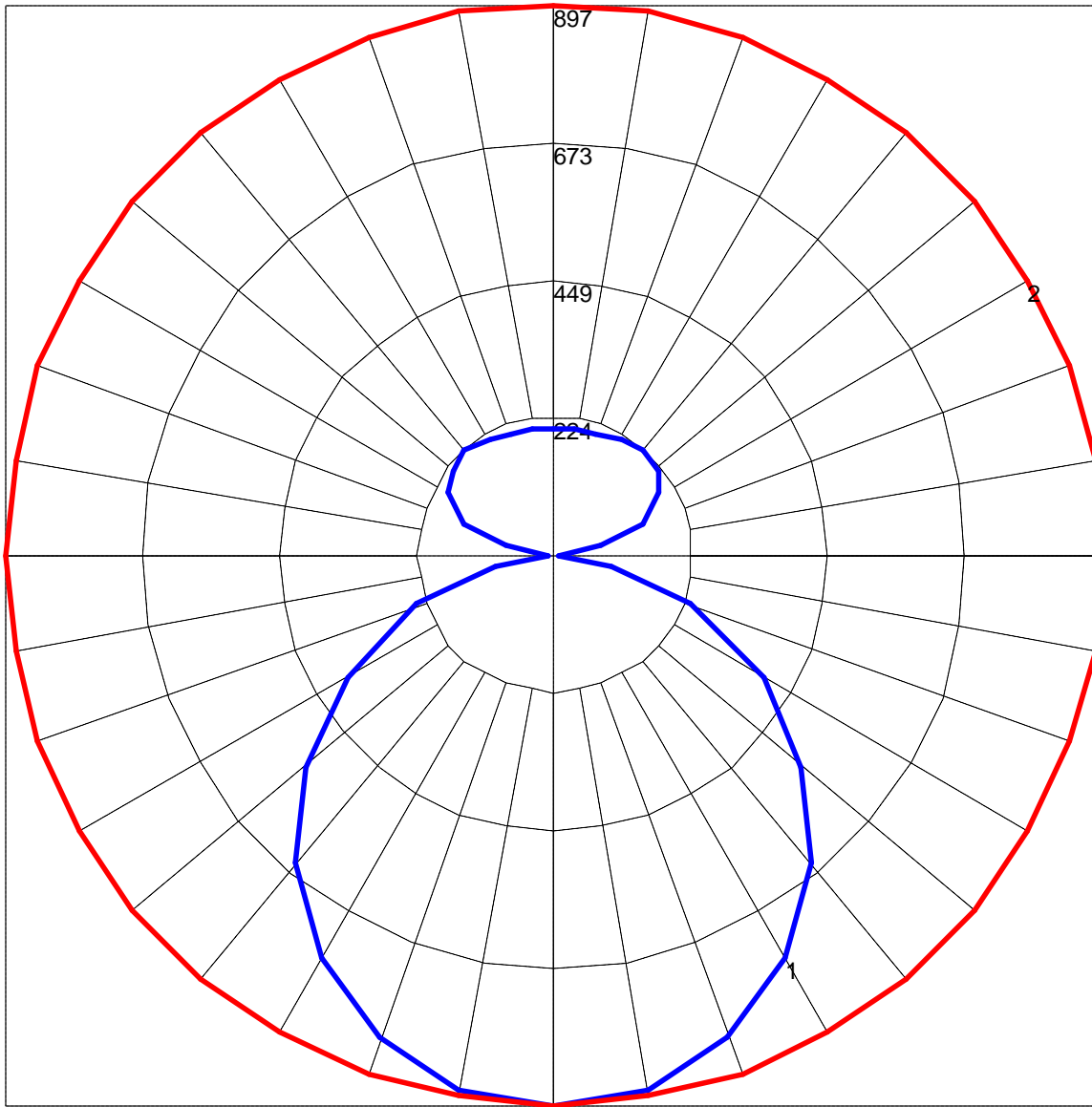
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	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 = 897.406 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.)