



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-FL-SS-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_SS(750)_NA_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-FL-SS-30
[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	4112
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	36.8
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	1248	1049	965
55	1214	975	870
65	1142	859	733
75	1013	671	535
85	927	479	310

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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	269.084	269.084	269.084	269.084	269.084	269.084	269.084	269.084	269.084	269.084
10	268.765	268.797	268.501	267.376	266.955	266.090	265.208	264.366	264.183	263.689
20	263.192	263.621	261.693	259.448	257.638	255.995	254.411	253.505	251.980	251.714
30	249.111	249.392	247.019	243.337	240.293	237.954	235.308	233.836	232.351	231.516
40	223.405	223.514	222.438	217.683	214.434	211.542	208.259	205.873	204.188	203.305
50	185.446	185.617	184.689	182.607	178.120	174.979	172.097	169.627	167.723	166.714
60	141.294	141.443	141.213	139.445	136.593	133.568	129.563	127.006	124.855	123.707
70	90.088	90.473	90.357	89.400	87.936	85.729	83.576	81.204	78.984	77.357
80	41.517	41.797	42.256	41.814	40.981	39.363	37.891	36.561	34.309	32.922
90	7.733	7.971	9.304	11.838	13.188	16.106	16.313	15.062	13.220	7.940
100	178.766	172.542	179.787	185.203	183.735	176.918	161.372	136.416	104.398	73.350
110	666.953	653.582	628.482	595.773	558.112	503.340	440.584	355.436	241.770	190.069
120	857.925	847.694	821.313	781.736	728.032	662.077	577.530	456.573	360.895	327.578
130	925.787	914.973	889.544	852.574	792.241	715.640	617.049	525.426	474.860	459.501
140	913.964	903.863	872.562	830.010	775.506	710.904	638.877	594.564	574.411	568.546
150	834.525	825.039	806.343	777.434	740.692	705.133	679.319	663.621	657.698	654.442
160	764.110	758.714	753.281	744.215	734.685	725.480	719.789	716.460	712.249	709.060
170	755.868	753.212	751.458	750.447	749.376	747.278	745.184	743.541	741.482	740.861
180	752.708	752.708	752.708	752.708	752.708	752.708	752.708	752.708	752.708	752.708

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	99.79	N.A.	2.40
0-30	214.87	N.A.	5.20
0-40	357.30	N.A.	8.70
0-60	647.89	N.A.	15.80
0-80	822.98	N.A.	20.00
0-90	851.04	N.A.	20.70
10-90	825.48	N.A.	20.10
20-40	257.52	N.A.	6.30
20-50	408.66	N.A.	9.90
40-70	399.64	N.A.	9.70
60-80	175.09	N.A.	4.30
70-80	66.04	N.A.	1.60
80-90	28.07	N.A.	0.70
90-110	435.95	N.A.	10.60
90-120	1000.31	N.A.	24.30
90-130	1613.55	N.A.	39.20
90-150	2640.04	N.A.	64.20
90-180	3261.07	N.A.	79.30
110-180	2825.13	N.A.	68.70
0-180	4112.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.56
10-20	74.23
20-30	115.09
30-40	142.43
40-50	151.14
50-60	139.45
60-70	109.05
70-80	66.04
80-90	28.07
90-100	93.18
100-110	342.76
110-120	564.37
120-130	613.24
130-140	564.35
140-150	462.14
150-160	339.47
160-170	209.95
170-180	71.62

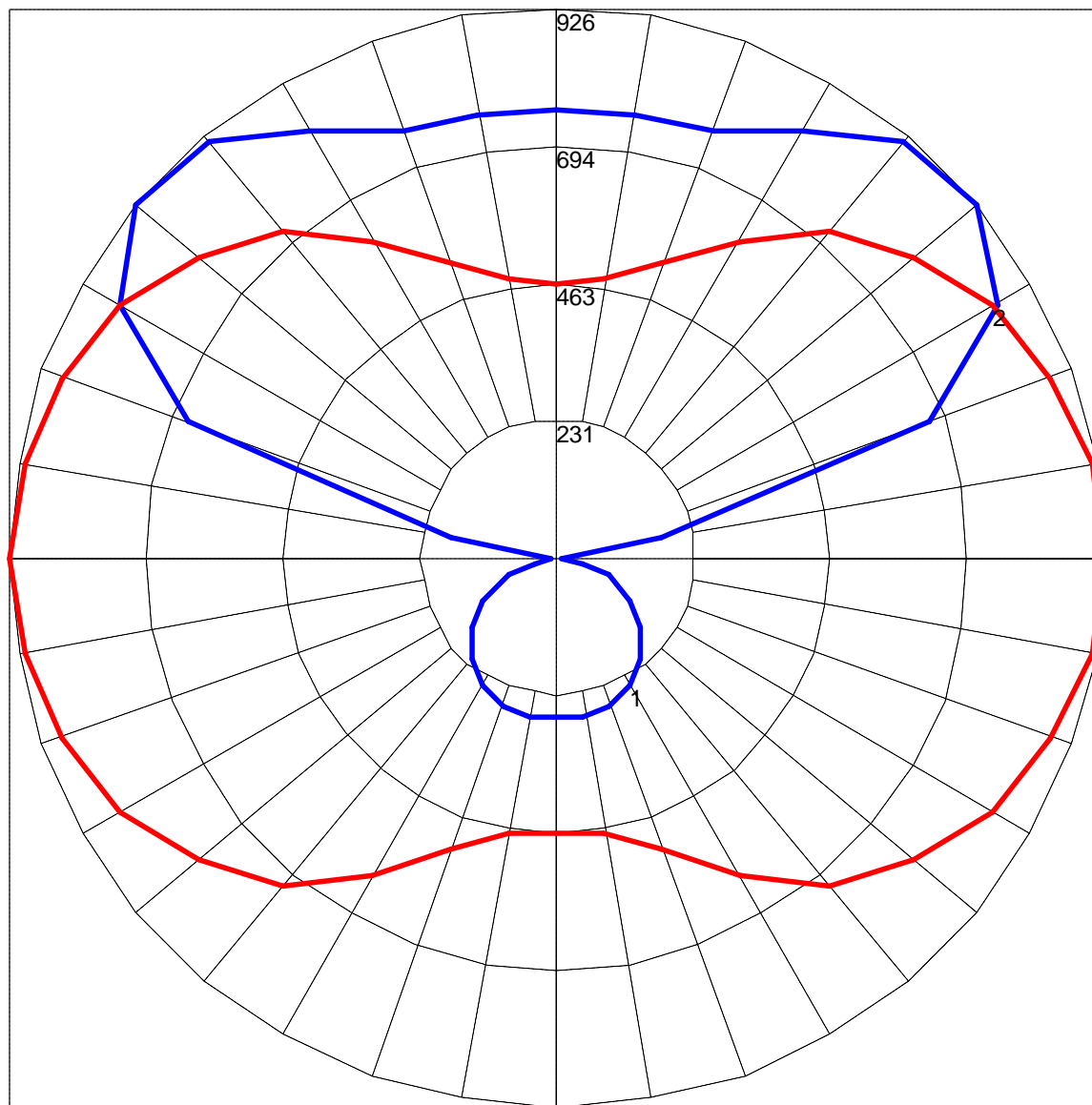
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	91	87	83	80	80	77	74	71	58	56	54	41	40	39	25	25	24	17
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20	14
3	75	66	59	54	66	59	53	48	45	41	37	32	29	27	20	18	17	12
4	69	58	51	45	60	52	45	40	39	35	31	28	25	23	17	16	14	10
5	63	52	44	38	55	46	39	34	35	30	27	25	22	20	15	14	12	9
6	58	46	38	33	51	41	34	30	31	27	23	22	19	17	14	12	11	7
7	53	41	34	28	47	37	30	26	28	24	20	20	17	15	13	11	10	7
8	49	37	30	25	43	33	27	22	26	21	18	18	15	13	12	10	8	6
9	46	34	27	22	40	30	24	20	23	19	16	17	14	12	11	9	8	5
10	42	31	24	19	37	28	22	18	21	17	14	15	12	10	10	8	7	5

POLAR GRAPH



Maximum Candela = 925.787 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)