IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-SS-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_SS(750)_0100_N2S_5-17-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 05-17-2016
[TESTDATE] 01-12-2017
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]HRZ-4-LED-0100-FL-SS-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	2691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	36.7
Ballast Factor	1.00
CIE Type	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	3814	3339	3191
55	3615	3024	2852
65	3306	2589	2400
75	2793	1937	1738
85	1994	951	798

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	946.370	946.370	946.370	946.370	946.370	946.370	946.370	946.370	946.370	946.370
10	932.127	929.881	929.694	928.619	927.070	927.040	926.225	926.038	925.149	925.364
20	882.138	879.161	878.052	877.706	876.379	875.827	873.165	873.512	871.839	870.940
30	799.825	799.474	799.546	796.965	795.517	793.039	790.388	789.974	788.255	786.222
40	689.629	689.731	688.655	687.386	685.520	682.915	680.302	678.830	677.495	676.228
50	560.058	559.040	558.982	557.219	556.562	554.361	552.549	550.815	548.796	547.436
60	413.179	412.749	413.474	413.168	412.044	410.913	409.233	407.652	406.076	404.770
70	256.670	257.362	258.561	258.295	258.137	257.560	256.628	255.748	254.507	253.207
80	105.986	107.012	107.912	108.536	108.809	109.169	109.142	107.570	106.750	105.124
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	345.04	N.A.	12.80
0-30	731.49	N.A.	27.20
0-40	1195.66	N.A.	44.40
0-60	2108.16	N.A.	78.30
0-80	2632.26	N.A.	97.80
0-90	2691.09	N.A.	100.00
10-90	2601.65	N.A.	96.70
20-40	850.62	N.A.	31.60
20-50	1330.16	N.A.	49.40
40-70	1243.7	N.A.	46.20
60-80	524.11	N.A.	19.50
70-80	192.90	N.A.	7.20
80-90	58.82	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2691.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.44
10-20	255.60
20-30	386.45
30-40	464.17
40-50	479.55
50-60	432.95
60-70	331.20
70-80	192.90
80-90	58.82
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	27
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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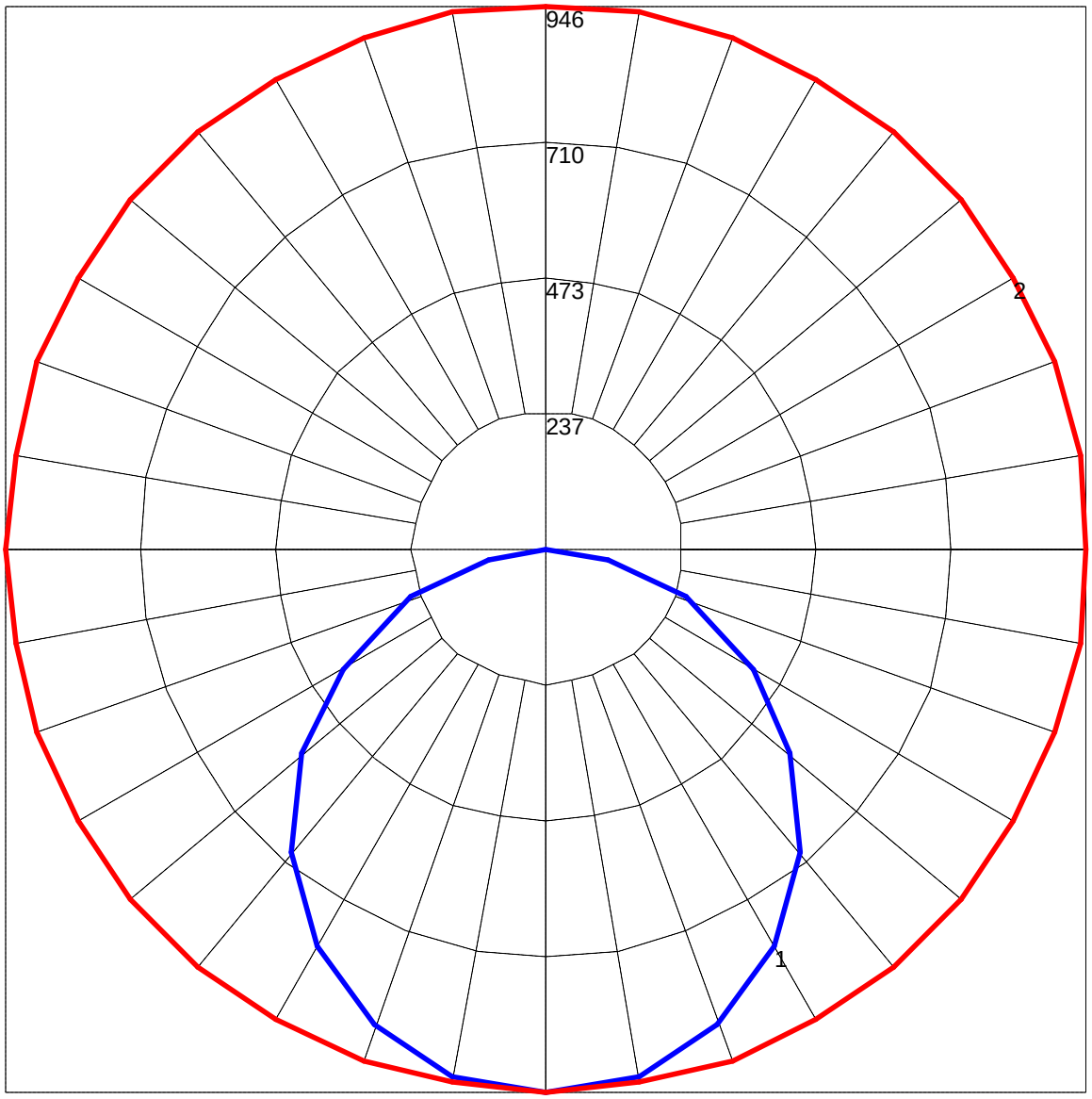
POLAR GRAPH



Maximum Candela = 946.37 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.)