



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-HO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_HO(950)_0100_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-0100-FL-HO-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	3242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	44.8
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	4614	4030	3839
55	4375	3656	3435
65	3983	3117	2885
75	3339	2319	2078
85	2393	1146	949

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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	1137.884	1137.884	1137.884	1137.884	1137.884	1137.884	1137.884	1137.884	1137.884	1137.884
10	1123.778	1120.146	1117.669	1116.720	1115.626	1113.626	1113.604	1112.846	1112.501	1110.812
20	1063.518	1060.565	1058.433	1056.665	1055.151	1053.080	1051.018	1049.863	1047.656	1047.391
30	966.724	964.659	962.553	960.850	957.990	955.324	953.061	949.759	947.503	946.135
40	834.613	832.134	831.125	830.010	826.808	824.006	821.049	817.918	814.294	812.911
50	677.139	676.969	675.980	674.650	672.713	669.011	666.103	663.213	661.183	659.195
60	500.693	501.180	501.412	500.842	499.139	496.803	494.367	492.246	489.247	487.786
70	306.365	307.520	308.468	309.223	308.497	307.192	305.588	306.545	301.397	303.242
80	127.207	129.069	130.333	131.513	131.688	130.984	130.168	128.864	127.179	125.088
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	415.08	N.A.	12.80
0-30	880.41	N.A.	27.20
0-40	1439.83	N.A.	44.40
0-60	2541.7	N.A.	78.40
0-80	3171.02	N.A.	97.80
0-90	3241.69	N.A.	100.00
10-90	3134.14	N.A.	96.70
20-40	1024.75	N.A.	31.60
20-50	1603.4	N.A.	49.50
40-70	1500.49	N.A.	46.30
60-80	629.32	N.A.	19.40
70-80	230.69	N.A.	7.10
80-90	70.67	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	3241.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.55
10-20	307.53
20-30	465.33
30-40	559.42
40-50	578.64
50-60	523.22
60-70	398.63
70-80	230.69
80-90	70.67
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

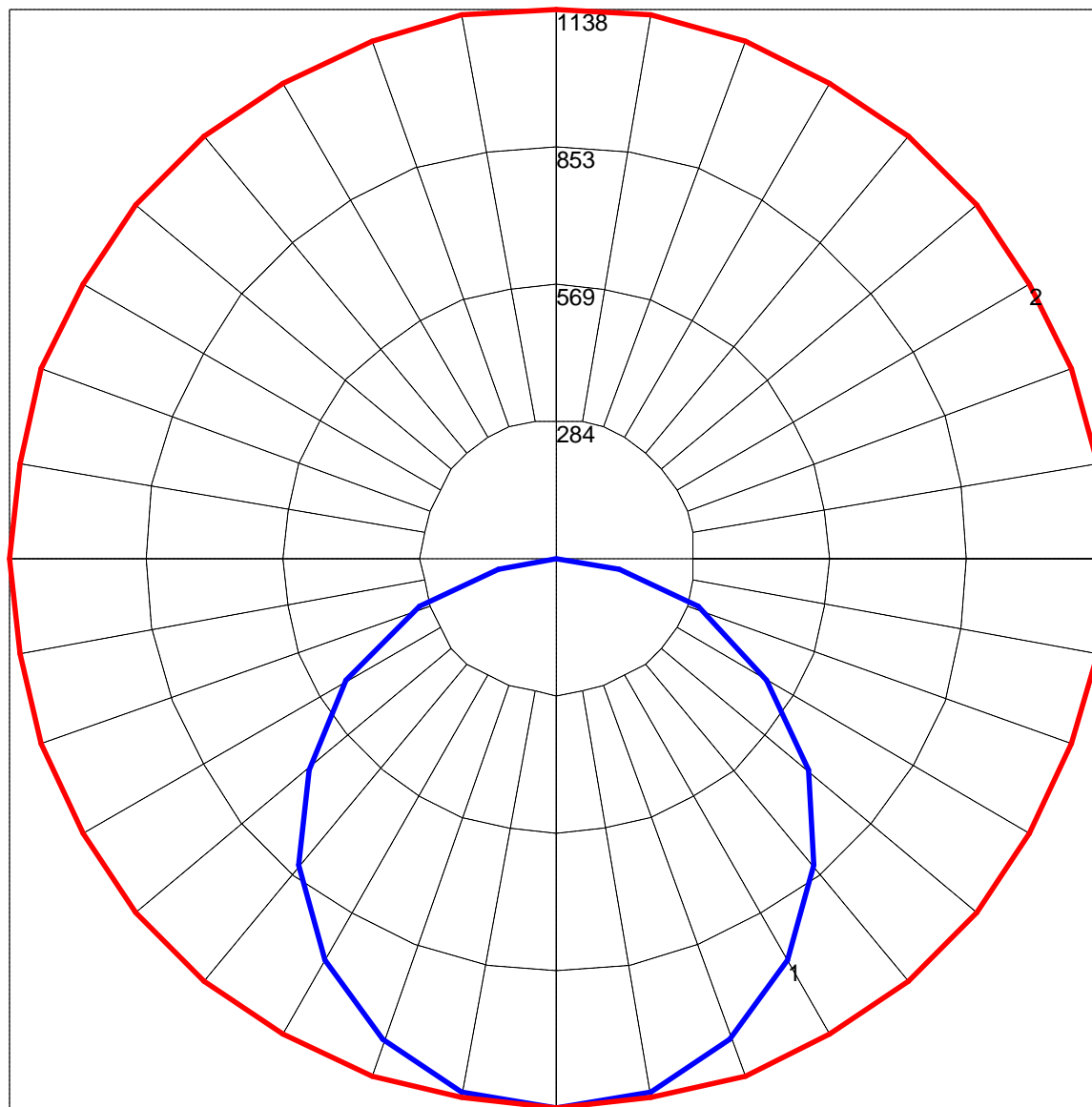
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	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	54	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	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1137.884 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.)