



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-SS-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_SS(750)_0100_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-0100-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	2869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	4066	3560	3402
55	3854	3224	3040
65	3524	2761	2558
75	2977	2065	1853
85	2126	1014	850

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-SS-40.IES

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	1008.923	1008.923	1008.923	1008.923	1008.923	1008.923	1008.923	1008.923	1008.923	1008.923
10	993.739	991.344	991.145	989.999	988.347	988.316	987.447	987.247	986.300	986.529
20	940.446	937.272	936.090	935.721	934.306	933.717	930.879	931.249	929.466	928.507
30	852.692	852.318	852.394	849.643	848.099	845.457	842.631	842.190	840.357	838.190
40	735.212	735.321	734.174	732.821	730.832	728.054	725.269	723.699	722.276	720.925
50	597.077	595.991	595.930	594.050	593.350	591.003	589.071	587.223	585.070	583.620
60	440.489	440.031	440.804	440.478	439.279	438.074	436.282	434.597	432.917	431.524
70	273.635	274.373	275.651	275.368	275.199	274.584	273.591	272.652	271.329	269.943
80	112.992	114.085	115.045	115.710	116.001	116.385	116.356	114.680	113.806	112.073
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-SS-40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	367.85	N.A.	12.80
0-30	779.84	N.A.	27.20
0-40	1274.69	N.A.	44.40
0-60	2247.5	N.A.	78.30
0-80	2806.25	N.A.	97.80
0-90	2868.96	N.A.	100.00
10-90	2773.61	N.A.	96.70
20-40	906.84	N.A.	31.60
20-50	1418.09	N.A.	49.40
40-70	1325.9	N.A.	46.20
60-80	558.75	N.A.	19.50
70-80	205.65	N.A.	7.20
80-90	62.71	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	2868.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.35
10-20	272.50
20-30	411.99
30-40	494.85
40-50	511.24
50-60	461.56
60-70	353.10
70-80	205.65
80-90	62.71
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

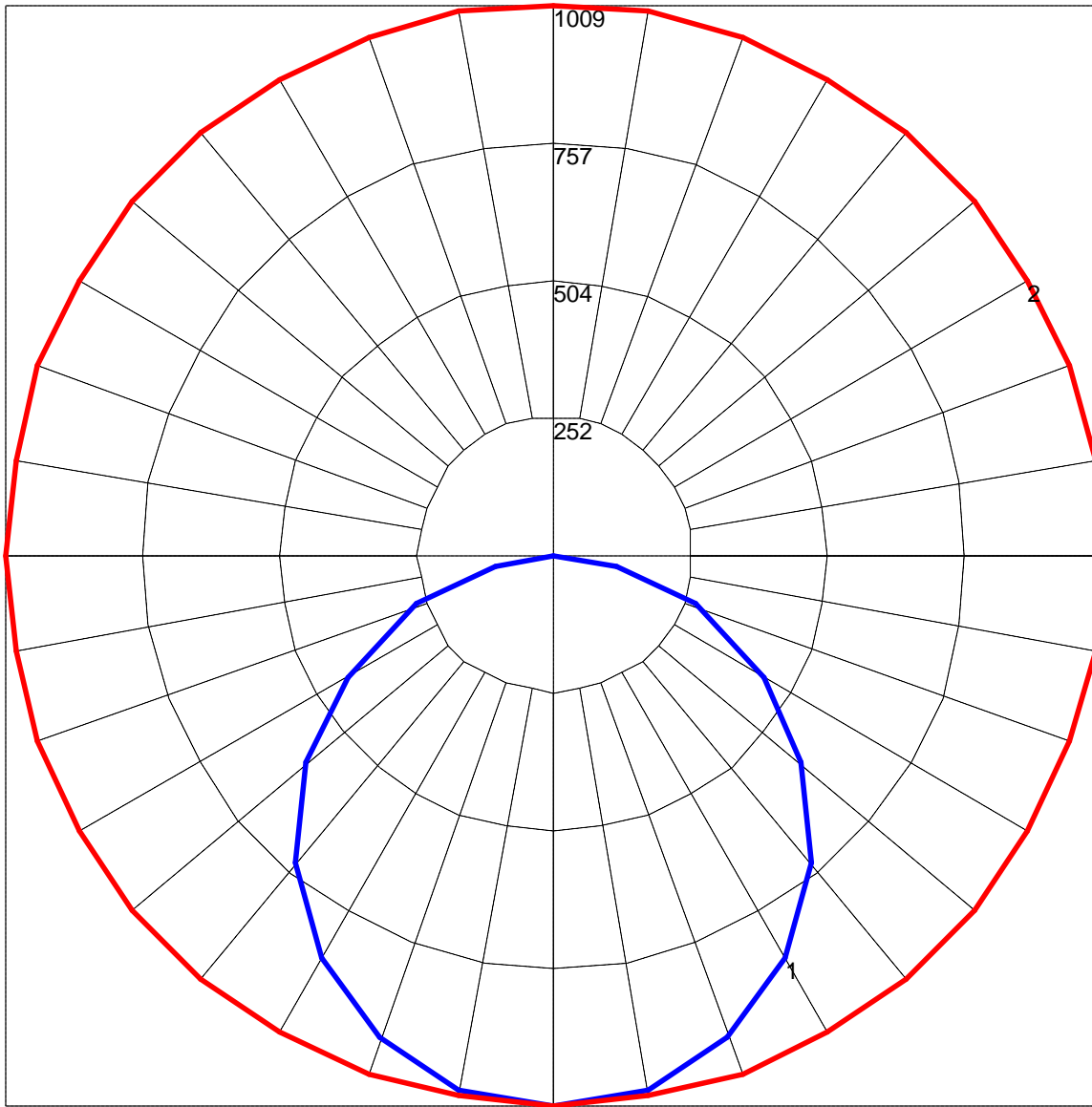
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-SS-40.IES

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	45	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

POLAR GRAPH



Maximum Candela = 1008.923 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.)