



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-HO-40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L250\_4000K\_HO(950)\_0100\_N2S\_5-16-2016  
[TESTLAB] Orb Optronix, Inc.  
[ISSUEDATE] 05-16-2016  
[TESTDATE] 01-12-2017  
[MANUFAC] LSI INDUSTRIES, INC  
[LUMCAT] HRZ-4-LED-0100-FL-HO-40  
[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	3342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	4757	4155	3958
55	4510	3769	3541
65	4106	3214	2974
75	3442	2391	2142
85	2467	1182	978

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-HO-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>
<b>0</b>	1173.064	1173.064	1173.064	1173.064	1173.064	1173.064	1173.064	1173.064	1173.064	1173.064
<b>10</b>	1158.522	1154.777	1152.224	1151.245	1150.118	1148.056	1148.033	1147.252	1146.896	1145.155
<b>20</b>	1096.399	1093.354	1091.156	1089.333	1087.773	1085.638	1083.512	1082.322	1080.046	1079.773
<b>30</b>	996.612	994.483	992.312	990.556	987.608	984.860	982.527	979.122	976.797	975.387
<b>40</b>	860.416	857.861	856.821	855.671	852.370	849.481	846.433	843.206	839.469	838.044
<b>50</b>	698.074	697.898	696.879	695.508	693.511	689.694	686.697	683.717	681.625	679.576
<b>60</b>	516.173	516.675	516.914	516.327	514.571	512.163	509.652	507.464	504.373	502.867
<b>70</b>	315.837	317.027	318.005	318.783	318.035	316.690	315.036	316.022	310.715	312.618
<b>80</b>	131.140	133.059	134.363	135.579	135.759	135.034	134.193	132.848	131.111	128.955
<b>90</b>	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-HO-40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	427.91	N.A.	12.80
0-30	907.63	N.A.	27.20
0-40	1484.35	N.A.	44.40
0-60	2620.28	N.A.	78.40
0-80	3269.06	N.A.	97.80
0-90	3341.92	N.A.	100.00
10-90	3231.04	N.A.	96.70
20-40	1056.44	N.A.	31.60
20-50	1652.97	N.A.	49.50
40-70	1546.88	N.A.	46.30
60-80	648.78	N.A.	19.40
70-80	237.83	N.A.	7.10
80-90	72.86	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	3341.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.88
10-20	317.04
20-30	479.72
30-40	576.71
40-50	596.53
50-60	539.39
60-70	410.95
70-80	237.83
80-90	72.86
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

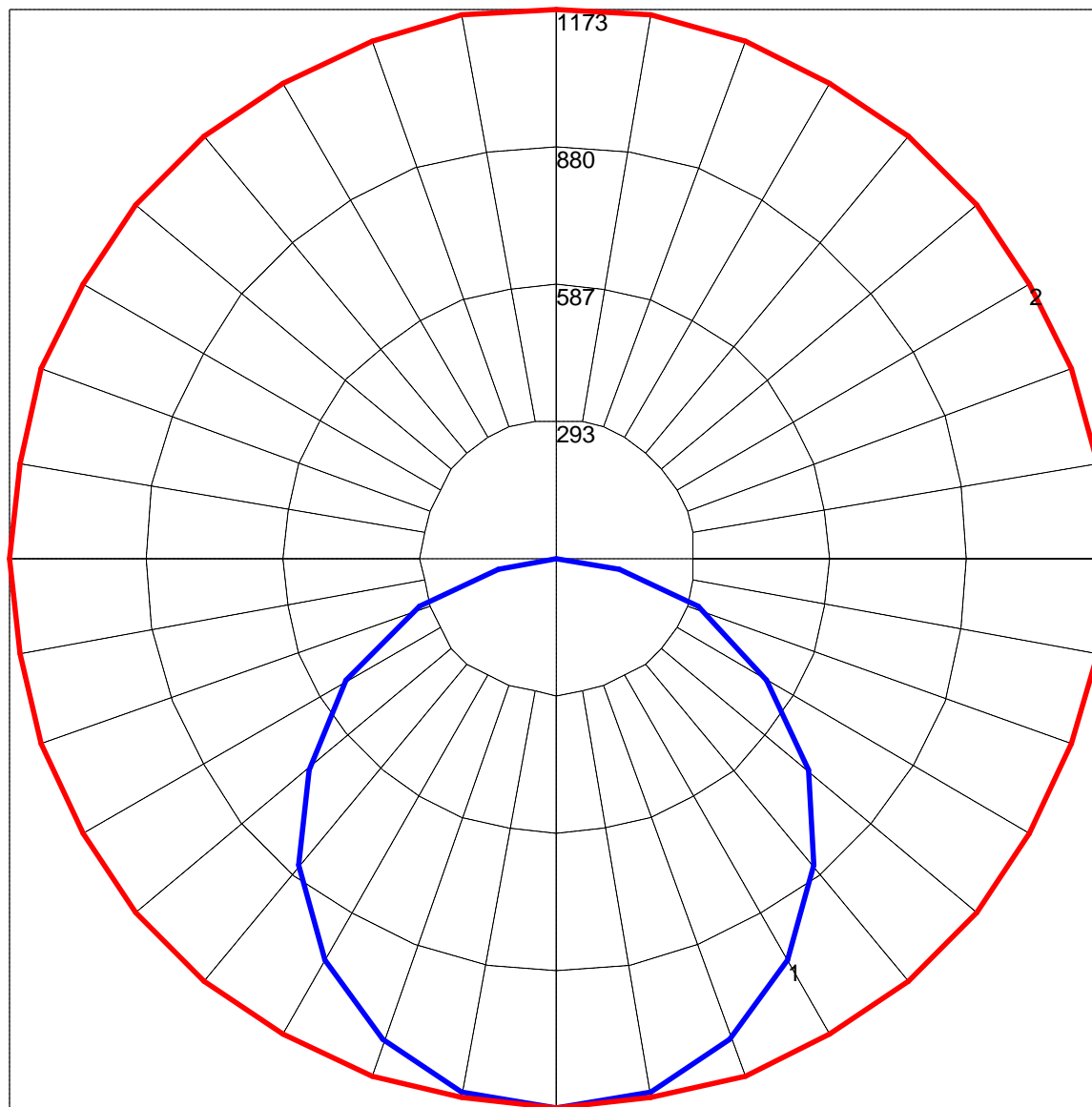
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-0100-FL-HO-40.IES**

**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	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 = 1173.064 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.)