



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-SS-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L250\_4000K\_SS(750)\_3070\_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-3070-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	3625
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	36.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
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	3347	2917	2780
55	3166	2643	2483
65	2882	2258	2080
75	2400	1673	1486
85	2004	975	760

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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>
<b>0</b>	822.620	822.620	822.620	822.620	822.620	822.620	822.620	822.620	822.620	822.620
<b>10</b>	813.316	809.920	808.563	807.531	806.255	805.220	804.849	804.622	803.509	803.944
<b>20</b>	771.043	769.469	766.162	764.833	763.735	761.749	761.555	759.803	758.691	758.253
<b>30</b>	702.451	700.759	699.050	697.050	694.213	692.547	690.304	687.849	686.829	685.047
<b>40</b>	605.889	604.631	603.695	601.754	598.568	596.737	594.590	592.809	590.795	589.157
<b>50</b>	490.871	490.413	489.023	488.292	486.249	484.553	481.908	480.191	478.128	476.932
<b>60</b>	361.538	361.595	360.875	360.923	360.366	359.059	356.685	354.992	353.163	352.294
<b>70</b>	222.491	222.311	223.149	224.168	224.239	223.702	222.582	221.308	219.161	217.959
<b>80</b>	89.227	89.623	90.959	92.001	92.496	93.316	92.179	91.624	89.821	88.404
<b>90</b>	17.270	18.016	18.421	18.529	18.741	18.881	18.496	17.951	18.278	11.720
<b>100</b>	114.212	130.668	106.295	97.784	103.917	105.581	102.256	91.817	81.694	67.022
<b>110</b>	184.639	200.577	200.848	199.343	192.976	185.747	174.105	157.878	132.667	119.115
<b>120</b>	269.659	258.256	274.013	266.653	262.971	241.001	222.548	205.613	177.906	168.314
<b>130</b>	306.512	293.589	292.140	299.894	285.553	268.222	252.994	229.027	216.589	212.910
<b>140</b>	318.332	315.692	291.763	292.206	297.702	284.641	264.534	253.603	247.784	246.334
<b>150</b>	311.545	312.409	298.565	281.802	274.169	272.353	272.338	272.362	274.130	274.240
<b>160</b>	291.988	293.026	291.885	285.972	277.997	272.243	268.262	266.553	267.114	266.443
<b>170</b>	288.979	289.703	290.285	291.458	292.146	291.210	290.200	289.355	288.806	288.627
<b>180</b>	286.746	286.746	286.746	286.746	286.746	286.746	286.746	286.746	286.746	286.746

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	300.27	N.A.	8.30
0-30	637.47	N.A.	17.60
0-40	1043.13	N.A.	28.80
0-60	1840.52	N.A.	50.80
0-80	2294.51	N.A.	63.30
0-90	2354.08	N.A.	64.90
10-90	2276.32	N.A.	62.80
20-40	742.85	N.A.	20.50
20-50	1162.08	N.A.	32.10
40-70	1085.55	N.A.	29.90
60-80	454.00	N.A.	12.50
70-80	165.84	N.A.	4.60
80-90	59.56	N.A.	1.60
90-110	212.33	N.A.	5.90
90-120	417.69	N.A.	11.50
90-130	643.26	N.A.	17.70
90-150	1032.62	N.A.	28.50
90-180	1270.64	N.A.	35.10
110-180	1058.31	N.A.	29.20
0-180	3624.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	77.76
10-20	222.52
20-30	337.20
30-40	405.66
40-50	419.22
50-60	378.16
60-70	288.16
70-80	165.84
80-90	59.56
90-100	65.01
100-110	147.32
110-120	205.36
120-130	225.57
130-140	212.03
140-150	177.34
150-160	129.94
160-170	80.54
170-180	27.54

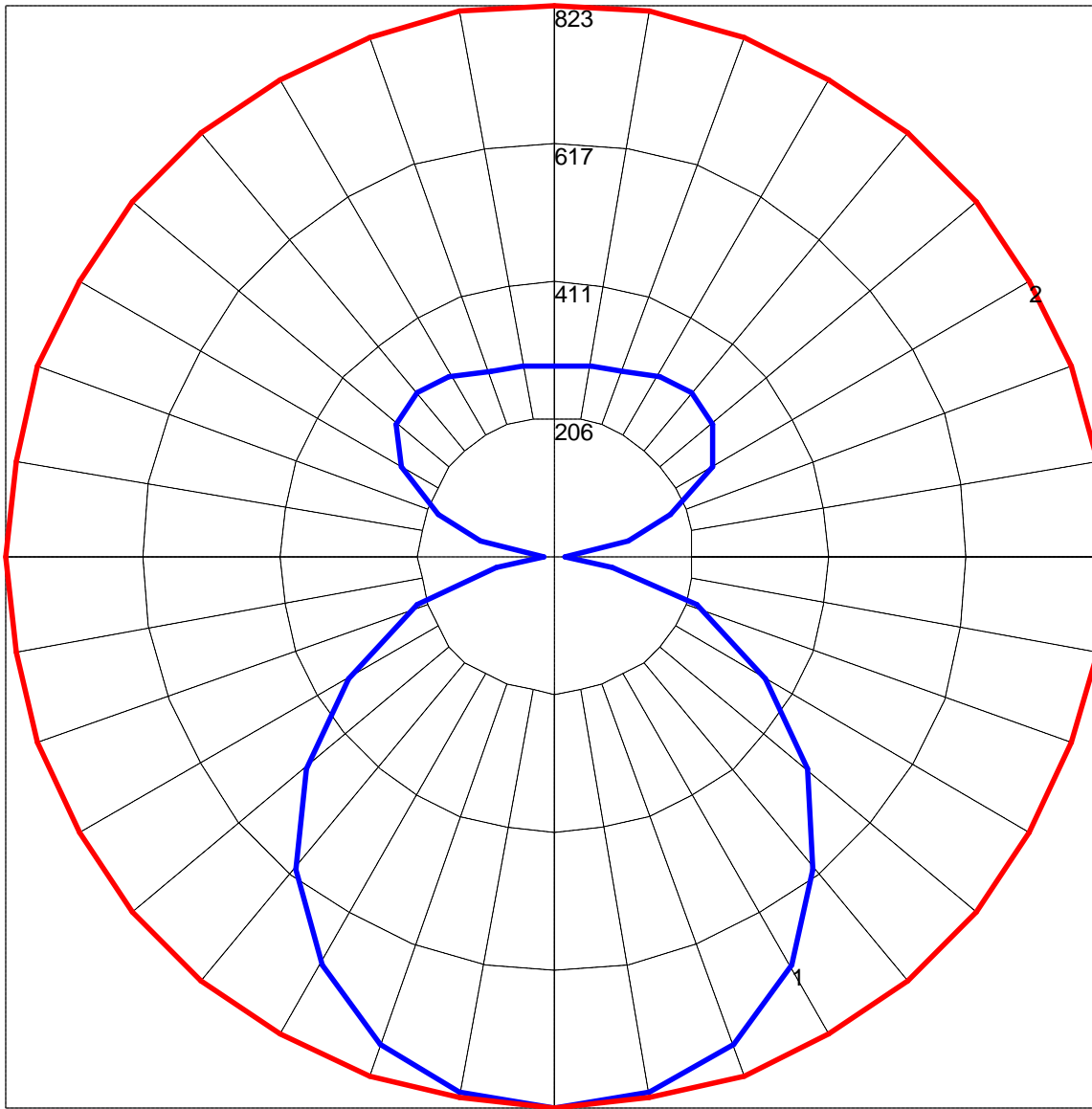
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	65
1	101	96	92	88	95	91	87	84	80	77	75	70	68	66	61	60	58	54
2	92	84	77	72	86	79	73	68	70	65	61	61	58	55	54	51	49	45
3	83	73	66	60	78	69	62	57	61	56	51	54	50	46	47	44	41	38
4	76	65	57	50	71	61	54	48	54	48	44	48	43	39	42	38	35	32
5	70	58	49	43	65	55	47	41	49	42	38	43	38	34	38	34	31	28
6	64	52	43	37	60	49	41	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	44	37	31	40	33	29	35	30	26	31	27	24	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	29	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	28	23	45	34	27	22	31	25	21	28	23	19	25	20	17	16

POLAR GRAPH



Maximum Candela = 822.62 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.)