



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-SS-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_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-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	3400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
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	3140	2737	2608
55	2970	2479	2330
65	2704	2118	1951
75	2252	1569	1394
85	1879	915	713

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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	771.618	771.618	771.618	771.618	771.618	771.618	771.618	771.618	771.618	771.618
10	762.890	759.705	758.432	757.464	756.267	755.296	754.948	754.735	753.691	754.099
20	723.238	721.762	718.660	717.413	716.383	714.521	714.339	712.695	711.652	711.241
30	658.899	657.312	655.709	653.833	651.172	649.609	647.505	645.202	644.246	642.574
40	568.324	567.144	566.266	564.445	561.457	559.739	557.725	556.055	554.166	552.629
50	460.437	460.007	458.704	458.018	456.102	454.511	452.030	450.419	448.484	447.362
60	339.123	339.176	338.501	338.546	338.023	336.797	334.571	332.983	331.267	330.452
70	208.697	208.528	209.314	210.270	210.336	209.832	208.782	207.587	205.573	204.446
80	83.695	84.066	85.320	86.297	86.761	87.530	86.464	85.943	84.252	82.923
90	16.199	16.899	17.279	17.380	17.579	17.710	17.349	16.838	17.145	10.993
100	107.131	122.567	99.705	91.721	97.474	99.035	95.916	86.124	76.629	62.867
110	173.191	188.141	188.395	186.984	181.011	174.231	163.310	148.090	124.442	111.730
120	252.940	242.244	257.024	250.121	246.667	226.059	208.750	192.865	166.876	157.879
130	287.508	275.386	274.027	281.301	267.849	251.592	237.308	214.827	203.160	199.710
140	298.595	296.119	273.674	274.089	279.244	266.993	248.133	237.880	232.421	231.061
150	292.229	293.040	280.054	264.330	257.171	255.467	255.453	255.476	257.134	257.237
160	273.885	274.858	273.788	268.242	260.761	255.364	251.630	250.027	250.553	249.924
170	271.062	271.741	272.287	273.388	274.033	273.155	272.208	271.415	270.900	270.732
180	268.968	268.968	268.968	268.968	268.968	268.968	268.968	268.968	268.968	268.968

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	281.66	N.A.	8.30
0-30	597.95	N.A.	17.60
0-40	978.46	N.A.	28.80
0-60	1726.41	N.A.	50.80
0-80	2152.25	N.A.	63.30
0-90	2208.12	N.A.	64.90
10-90	2135.19	N.A.	62.80
20-40	696.80	N.A.	20.50
20-50	1090.03	N.A.	32.10
40-70	1018.24	N.A.	29.90
60-80	425.85	N.A.	12.50
70-80	155.56	N.A.	4.60
80-90	55.87	N.A.	1.60
90-110	199.16	N.A.	5.90
90-120	391.79	N.A.	11.50
90-130	603.38	N.A.	17.70
90-150	968.60	N.A.	28.50
90-180	1191.86	N.A.	35.10
110-180	992.70	N.A.	29.20
0-180	3399.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.94
10-20	208.72
20-30	316.29
30-40	380.51
40-50	393.23
50-60	354.72
60-70	270.29
70-80	155.56
80-90	55.87
90-100	60.98
100-110	138.19
110-120	192.63
120-130	211.58
130-140	198.88
140-150	166.34
150-160	121.89
160-170	75.55
170-180	25.83

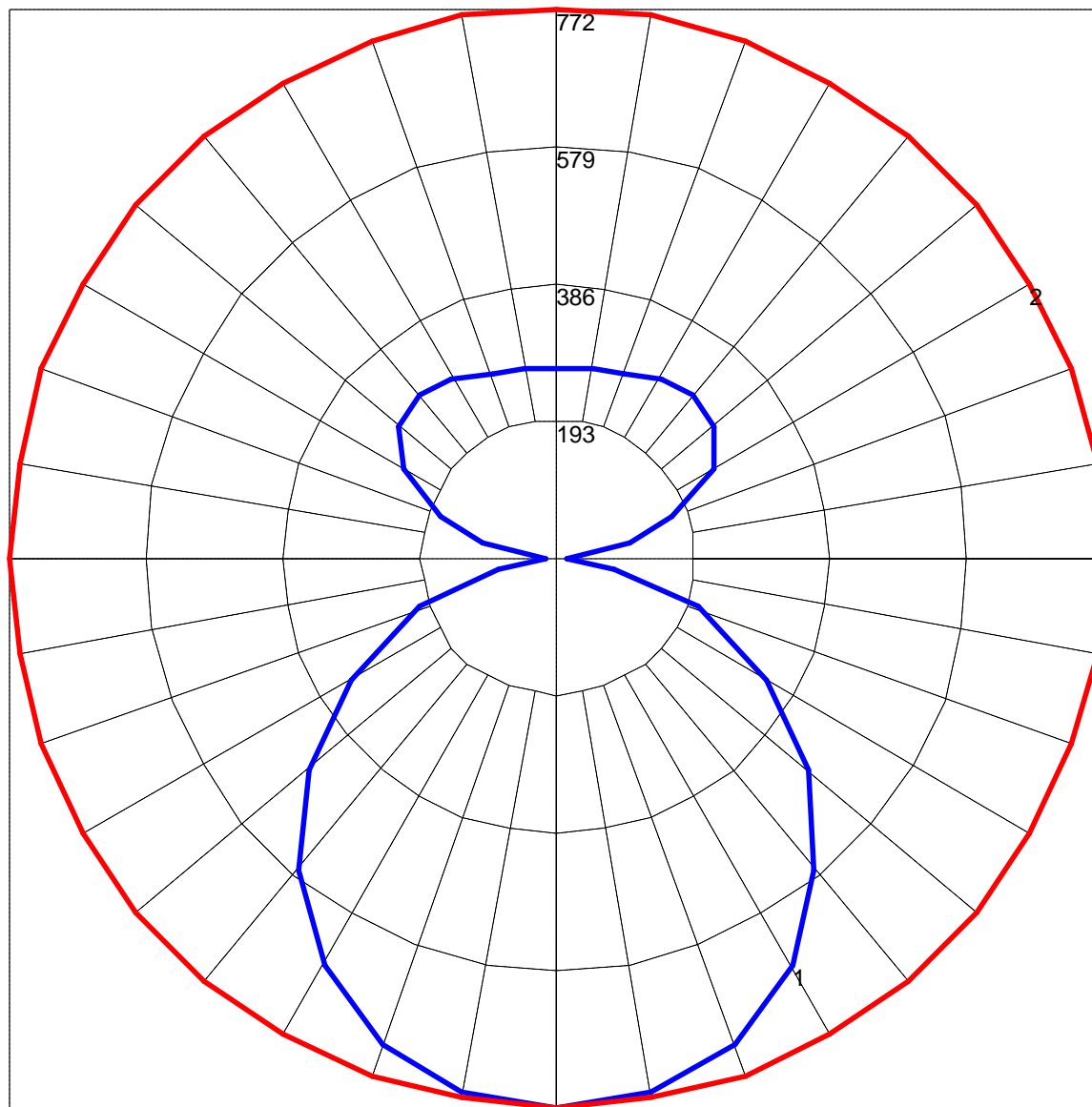
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 771.618 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.)