



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_HO(950)_3070_N2S_5-16-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 05-16-2016
[TESTDATE] 01-12-2017
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] HRZ-4-LED-3070-FL-HO-30
[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	4225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	44.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
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	3895	3395	3202
55	3723	3106	2879
65	3455	2704	2436
75	3004	2087	1788
85	2610	1285	1014

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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	938.466	938.466	938.466	938.466	938.466	938.466	938.466	938.466	938.466	938.466
10	929.082	925.384	924.211	922.440	922.060	921.828	920.305	919.584	917.975	917.871
20	883.611	880.587	879.308	877.849	874.902	873.391	872.110	870.502	867.741	865.983
30	807.912	805.825	804.222	802.519	799.623	797.174	793.127	789.678	787.780	785.105
40	702.170	700.290	700.052	697.251	694.690	691.355	687.620	683.554	680.079	676.846
50	573.948	572.980	572.955	571.872	569.517	565.167	561.996	557.638	554.207	551.230
60	428.426	428.436	429.264	429.297	426.995	424.622	420.848	416.070	412.834	409.902
70	271.571	272.830	274.246	274.686	274.083	272.070	269.394	265.549	261.664	258.104
80	118.559	119.905	121.456	122.808	122.635	121.932	120.079	117.222	114.236	110.370
90	20.138	20.795	21.367	22.255	23.826	25.991	26.630	29.563	29.555	23.251
100	95.494	107.090	115.993	123.335	129.569	131.140	126.474	115.853	101.763	83.594
110	234.740	252.618	258.586	252.900	243.262	231.509	214.529	190.764	160.747	143.295
120	301.732	319.548	316.052	319.327	306.026	278.155	267.706	245.612	208.239	196.028
130	338.096	330.209	356.817	344.581	312.902	316.783	305.804	266.074	246.553	240.825
140	345.770	324.916	342.300	353.709	341.153	318.987	289.289	277.102	276.076	276.158
150	337.144	320.986	316.825	325.870	330.849	323.380	313.668	310.301	307.175	306.217
160	315.531	305.549	301.163	300.625	304.666	310.290	315.144	317.842	317.657	317.729
170	313.813	308.380	305.634	303.513	302.911	302.886	303.194	302.968	303.567	303.743
180	314.628	314.628	314.628	314.628	314.628	314.628	314.628	314.628	314.628	314.628

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	343.42	N.A.	8.10
0-30	730.36	N.A.	17.30
0-40	1198.05	N.A.	28.40
0-60	2128.22	N.A.	50.40
0-80	2678.1	N.A.	63.40
0-90	2756.69	N.A.	65.20
10-90	2667.89	N.A.	63.10
20-40	854.63	N.A.	20.20
20-50	1341.39	N.A.	31.70
40-70	1274.11	N.A.	30.20
60-80	549.88	N.A.	13.00
70-80	205.95	N.A.	4.90
80-90	78.58	N.A.	1.90
90-110	254.88	N.A.	6.00
90-120	503.23	N.A.	11.90
90-130	766.33	N.A.	18.10
90-150	1206.54	N.A.	28.60
90-180	1468.76	N.A.	34.80
110-180	1213.88	N.A.	28.70
0-180	4225.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.79
10-20	254.62
20-30	386.95
30-40	467.69
40-50	486.75
50-60	443.42
60-70	343.94
70-80	205.95
80-90	78.58
90-100	76.52
100-110	178.36
110-120	248.35
120-130	263.10
130-140	241.10
140-150	199.11
150-160	145.55
160-170	87.11
170-180	29.56

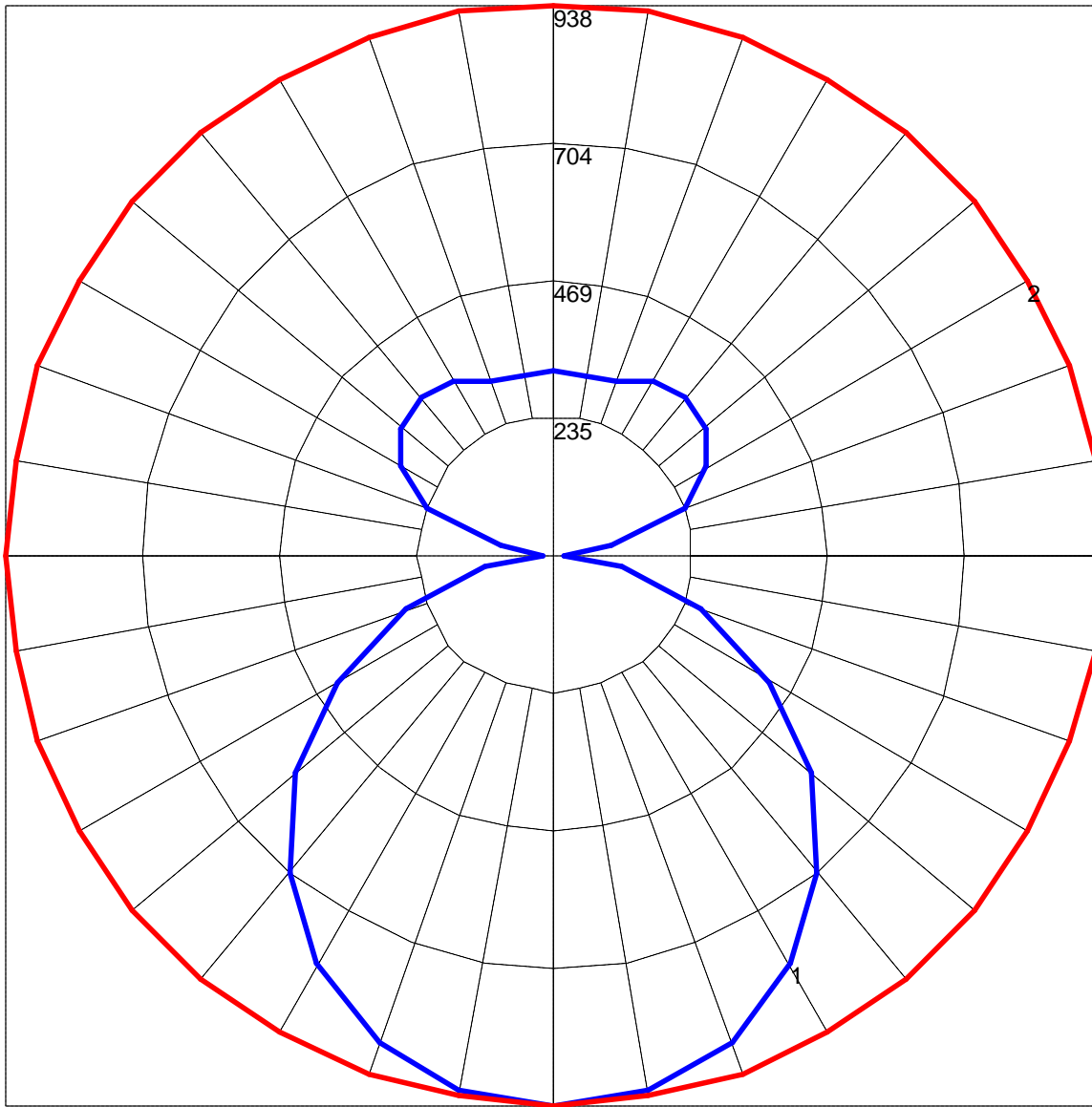
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	81	81	81	70	70	70	65
1	101	96	92	88	94	90	87	83	80	77	75	70	68	66	61	60	58	54
2	91	84	77	71	86	79	73	68	70	65	61	61	58	55	53	51	49	45
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	47	44	41	37
4	76	65	56	50	71	61	54	48	54	48	43	48	43	39	42	38	35	32
5	70	58	49	43	65	54	47	41	48	42	37	43	38	34	38	34	30	27
6	64	52	43	37	60	49	41	35	44	37	32	39	34	30	34	30	27	24
7	59	47	38	32	56	44	37	31	40	33	29	35	30	26	31	27	24	21
8	55	42	34	29	52	40	33	28	36	30	25	32	27	23	29	24	21	19
9	51	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	30	25	21	27	22	19	24	20	17	15

POLAR GRAPH



Maximum Candela = 938.466 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.)