



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_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-35
[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	3505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	3237	2821	2688
55	3062	2556	2402
65	2787	2184	2011
75	2321	1618	1437
85	1938	943	735

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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	795.474	795.474	795.474	795.474	795.474	795.474	795.474	795.474	795.474	795.474
10	786.477	783.193	781.880	780.882	779.649	778.648	778.289	778.069	776.993	777.414
20	745.599	744.077	740.879	739.594	738.532	736.611	736.424	734.730	733.654	733.231
30	679.270	677.634	675.981	674.047	671.304	669.693	667.524	665.150	664.164	662.440
40	585.895	584.678	583.773	581.896	578.815	577.045	574.969	573.246	571.299	569.715
50	474.672	474.229	472.885	472.178	470.203	468.563	466.005	464.345	462.350	461.193
60	349.607	349.662	348.966	349.013	348.474	347.210	344.914	343.277	341.509	340.668
70	215.149	214.975	215.785	216.770	216.839	216.320	215.237	214.005	211.929	210.766
80	86.283	86.665	87.957	88.965	89.444	90.237	89.137	88.600	86.857	85.487
90	16.700	17.421	17.813	17.918	18.123	18.258	17.886	17.359	17.675	11.333
100	110.443	126.356	102.787	94.557	100.488	102.097	98.882	88.787	78.998	64.810
110	178.546	193.958	194.220	192.765	186.608	179.617	168.360	152.668	128.289	115.184
120	260.760	249.734	264.971	257.853	254.293	233.048	215.204	198.828	172.035	162.760
130	296.397	283.901	282.499	289.998	276.130	259.371	244.645	221.469	209.442	205.884
140	307.827	305.274	282.135	282.563	287.878	275.248	255.804	245.234	239.607	238.205
150	301.264	302.100	288.712	272.503	265.121	263.365	263.351	263.374	265.084	265.190
160	282.352	283.356	282.253	276.535	268.823	263.259	259.409	257.757	258.299	257.650
170	279.443	280.143	280.706	281.840	282.505	281.600	280.623	279.806	279.275	279.102
180	277.283	277.283	277.283	277.283	277.283	277.283	277.283	277.283	277.283	277.283

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	290.37	N.A.	8.30
0-30	616.44	N.A.	17.60
0-40	1008.71	N.A.	28.80
0-60	1779.78	N.A.	50.80
0-80	2218.79	N.A.	63.30
0-90	2276.39	N.A.	64.90
10-90	2201.2	N.A.	62.80
20-40	718.34	N.A.	20.50
20-50	1123.73	N.A.	32.10
40-70	1049.72	N.A.	29.90
60-80	439.01	N.A.	12.50
70-80	160.37	N.A.	4.60
80-90	57.60	N.A.	1.60
90-110	205.32	N.A.	5.90
90-120	403.90	N.A.	11.50
90-130	622.03	N.A.	17.70
90-150	998.54	N.A.	28.50
90-180	1228.71	N.A.	35.10
110-180	1023.39	N.A.	29.20
0-180	3505.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.19
10-20	215.17
20-30	326.07
30-40	392.27
40-50	405.39
50-60	365.69
60-70	278.65
70-80	160.37
80-90	57.60
90-100	62.86
100-110	142.46
110-120	198.58
120-130	218.13
130-140	205.03
140-150	171.48
150-160	125.66
160-170	77.88
170-180	26.63

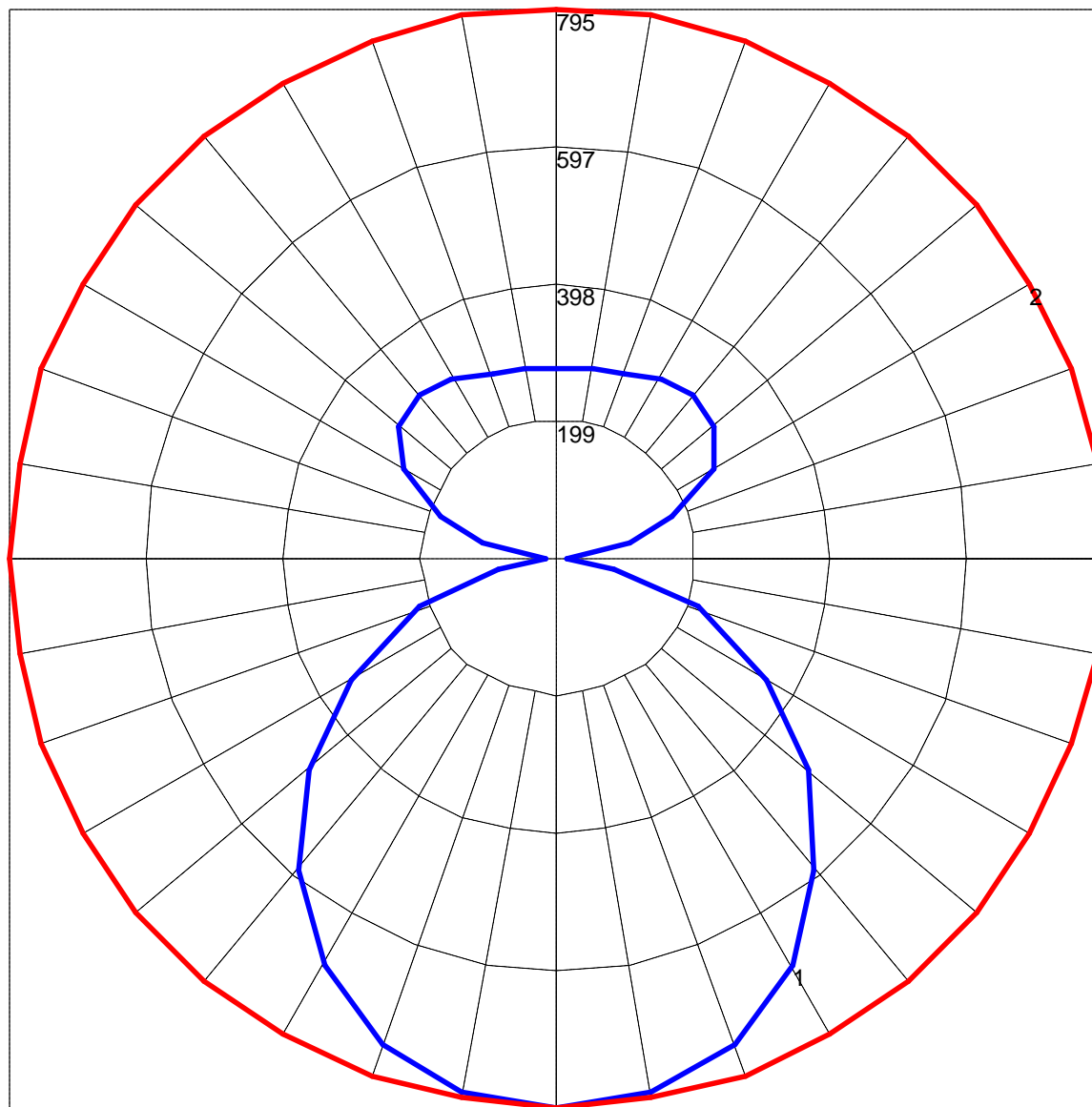
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 795.474 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.)