



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_SS(750)_5050_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-5050-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	3693
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	36.7
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	2718	2362	2234
55	2604	2162	2004
65	2407	1876	1692
75	2084	1435	1239
85	1831	885	701

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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	653.019	653.019	653.019	653.019	653.019	653.019	653.019	653.019	653.019	653.019
10	642.641	643.238	643.422	642.415	642.283	641.456	641.770	640.150	640.944	639.379
20	613.248	613.401	612.433	611.774	610.248	608.538	607.671	605.744	604.792	604.034
30	562.314	562.364	561.092	558.856	557.616	555.560	553.096	551.251	549.491	548.839
40	488.943	489.297	488.712	486.126	483.570	481.369	478.751	476.528	473.828	472.482
50	401.706	402.123	401.997	399.878	395.390	393.258	391.020	387.987	385.631	384.102
60	299.361	299.704	299.953	299.844	297.748	296.027	292.003	289.096	286.757	285.095
70	188.249	188.924	189.232	189.279	188.504	187.649	185.562	183.213	181.024	178.916
80	82.349	82.719	83.796	84.066	84.250	83.214	82.181	80.862	78.493	76.381
90	14.972	15.291	15.477	15.809	17.044	18.194	19.416	21.726	21.275	15.969
100	121.017	131.972	130.889	124.915	125.752	120.864	112.421	99.372	82.935	67.245
110	332.191	333.632	332.489	319.052	289.089	262.779	233.307	199.628	157.246	140.580
120	420.753	403.414	413.781	394.411	373.535	351.548	313.224	264.458	229.334	217.985
130	461.262	443.852	427.868	433.090	418.469	373.264	336.079	304.171	286.055	279.991
140	463.943	455.240	430.823	414.726	400.157	392.109	370.438	350.186	341.664	340.479
150	438.700	437.783	418.364	399.765	386.610	374.126	365.379	363.673	362.773	361.959
160	413.272	415.543	412.473	402.945	394.012	389.651	387.119	386.822	386.414	386.969
170	413.246	413.850	415.666	416.727	416.330	414.478	412.360	410.525	409.216	409.350
180	411.576	411.576	411.576	411.576	411.576	411.576	411.576	411.576	411.576	411.576

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	239.12	N.A.	6.50
0-30	508.82	N.A.	13.80
0-40	834.92	N.A.	22.60
0-60	1483.55	N.A.	40.20
0-80	1864.33	N.A.	50.50
0-90	1918.81	N.A.	52.00
10-90	1857.00	N.A.	50.30
20-40	595.80	N.A.	16.10
20-50	935.22	N.A.	25.30
40-70	887.42	N.A.	24.00
60-80	380.79	N.A.	10.30
70-80	141.99	N.A.	3.80
80-90	54.47	N.A.	1.50
90-110	270.76	N.A.	7.30
90-120	570.02	N.A.	15.40
90-130	891.83	N.A.	24.20
90-150	1437.51	N.A.	38.90
90-180	1773.93	N.A.	48.00
110-180	1503.17	N.A.	40.70
0-180	3692.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.80
10-20	177.32
20-30	269.70
30-40	326.10
40-50	339.43
50-60	309.20
60-70	238.80
70-80	141.99
80-90	54.47
90-100	71.70
100-110	199.06
110-120	299.26
120-130	321.81
130-140	299.07
140-150	246.62
150-160	182.16
160-170	114.89
170-180	39.37

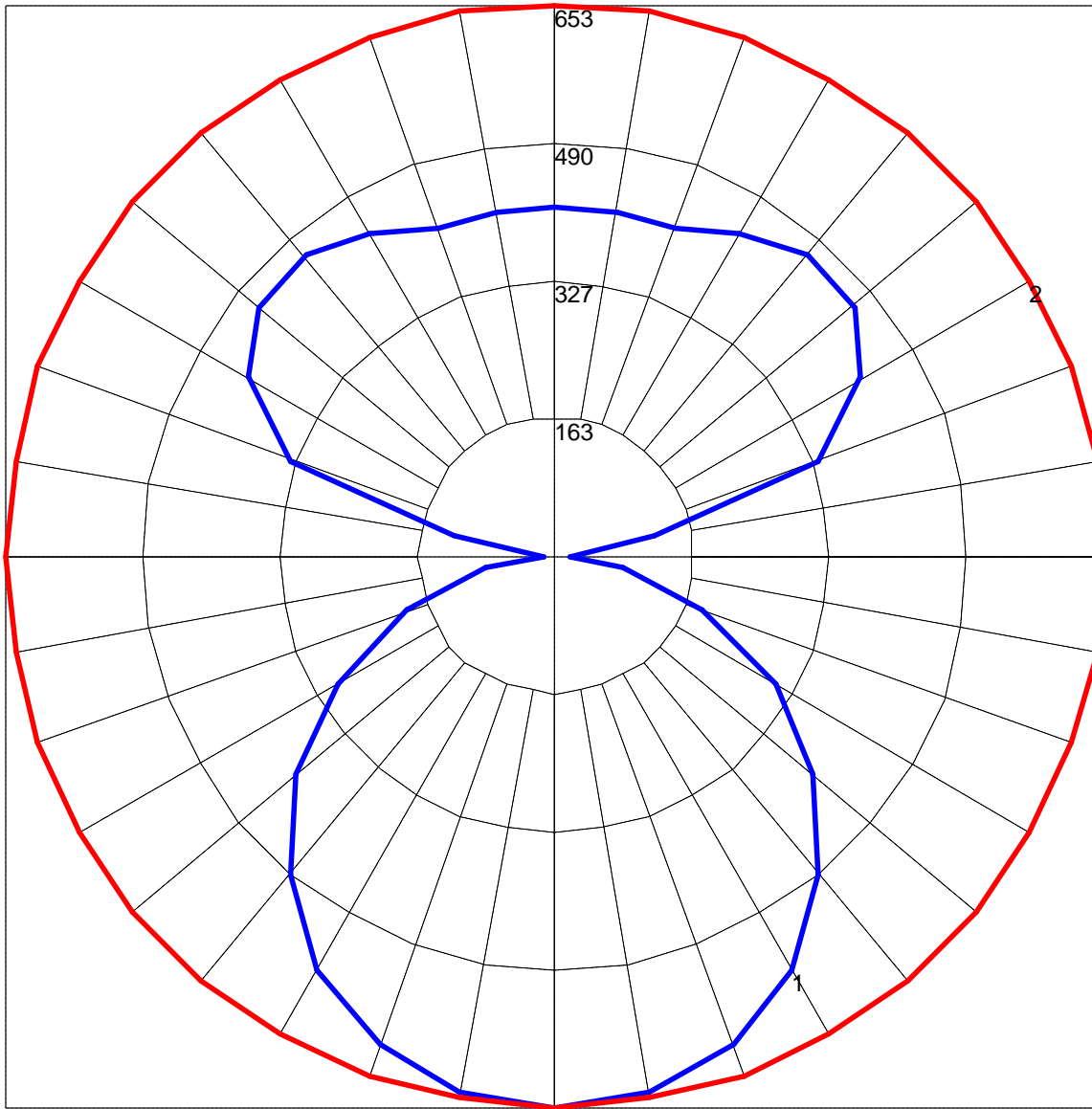
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	93	89	86	90	86	83	80	73	71	69	62	60	58	51	49	48	43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	36
3	81	71	64	58	74	66	59	54	56	51	47	47	44	40	39	36	34	30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	32	29	25
5	68	56	48	41	62	52	45	39	45	39	34	38	33	30	31	28	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	24	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12

POLAR GRAPH



Maximum Candela = 653.019 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.)