



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-HO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3500K_HO(950)_5050_N2S_5-16-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-16-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-5050-FL-HO-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	4387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	44.8
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	3298	2856	2684
55	3154	2610	2403
65	2916	2263	2020
75	2504	1725	1456
85	2042	1015	764

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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	787.078	787.078	787.078	787.078	787.078	787.078	787.078	787.078	787.078	787.078
10	779.717	776.545	775.988	774.654	774.025	772.802	772.586	771.463	770.661	769.418
20	743.873	741.559	740.168	737.977	736.072	734.053	731.548	729.774	727.673	725.994
30	682.549	681.254	679.744	675.435	673.094	666.284	663.146	660.538	657.571	656.223
40	594.025	593.235	591.789	588.336	584.822	581.340	578.063	574.076	570.384	567.934
50	486.668	485.234	484.016	482.384	478.812	475.219	471.678	466.852	463.749	461.174
60	362.511	362.077	362.610	361.583	358.774	355.834	351.958	348.362	344.863	341.202
70	228.363	229.102	229.866	229.796	228.690	226.584	223.763	219.672	216.127	212.707
80	96.865	98.058	99.601	99.938	99.608	98.684	96.955	94.603	91.003	87.323
90	11.653	12.069	12.675	13.330	14.736	19.451	20.659	23.958	22.681	13.417
100	135.568	147.613	141.093	138.679	139.497	135.358	126.014	111.362	94.132	74.697
110	391.846	398.907	396.996	373.837	335.343	306.353	273.468	232.028	181.681	159.791
120	501.454	485.403	500.521	473.118	449.410	413.582	363.534	310.245	265.186	244.757
130	549.651	520.725	523.593	526.325	477.385	442.791	403.243	360.413	336.166	326.174
140	549.392	525.255	503.600	501.796	498.188	468.451	427.948	403.063	394.436	393.259
150	519.289	501.556	484.816	469.297	460.812	453.563	445.352	440.675	438.597	437.850
160	485.547	476.068	468.080	459.542	450.273	445.870	444.804	446.118	444.821	444.504
170	479.847	475.341	472.336	470.997	468.395	465.638	464.273	462.360	461.916	462.176
180	477.001	477.001	477.001	477.001	477.001	477.001	477.001	477.001	477.001	477.001

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.31	N.A.	6.60
0-30	613.35	N.A.	14.00
0-40	1006.65	N.A.	22.90
0-60	1789.26	N.A.	40.80
0-80	2247.37	N.A.	51.20
0-90	2309.35	N.A.	52.60
10-90	2234.86	N.A.	50.90
20-40	718.34	N.A.	16.40
20-50	1128.15	N.A.	25.70
40-70	1070.59	N.A.	24.40
60-80	458.10	N.A.	10.40
70-80	170.13	N.A.	3.90
80-90	61.99	N.A.	1.40
90-110	308.25	N.A.	7.00
90-120	661.65	N.A.	15.10
90-130	1043.57	N.A.	23.80
90-150	1689.37	N.A.	38.50
90-180	2078.14	N.A.	47.40
110-180	1769.9	N.A.	40.30
0-180	4387.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.49
10-20	213.81
20-30	325.04
30-40	393.30
40-50	409.81
50-60	372.81
60-70	287.97
70-80	170.13
80-90	61.99
90-100	78.25
100-110	230.00
110-120	353.40
120-130	381.92
130-140	353.78
140-150	292.02
150-160	212.76
160-170	130.91
170-180	45.10

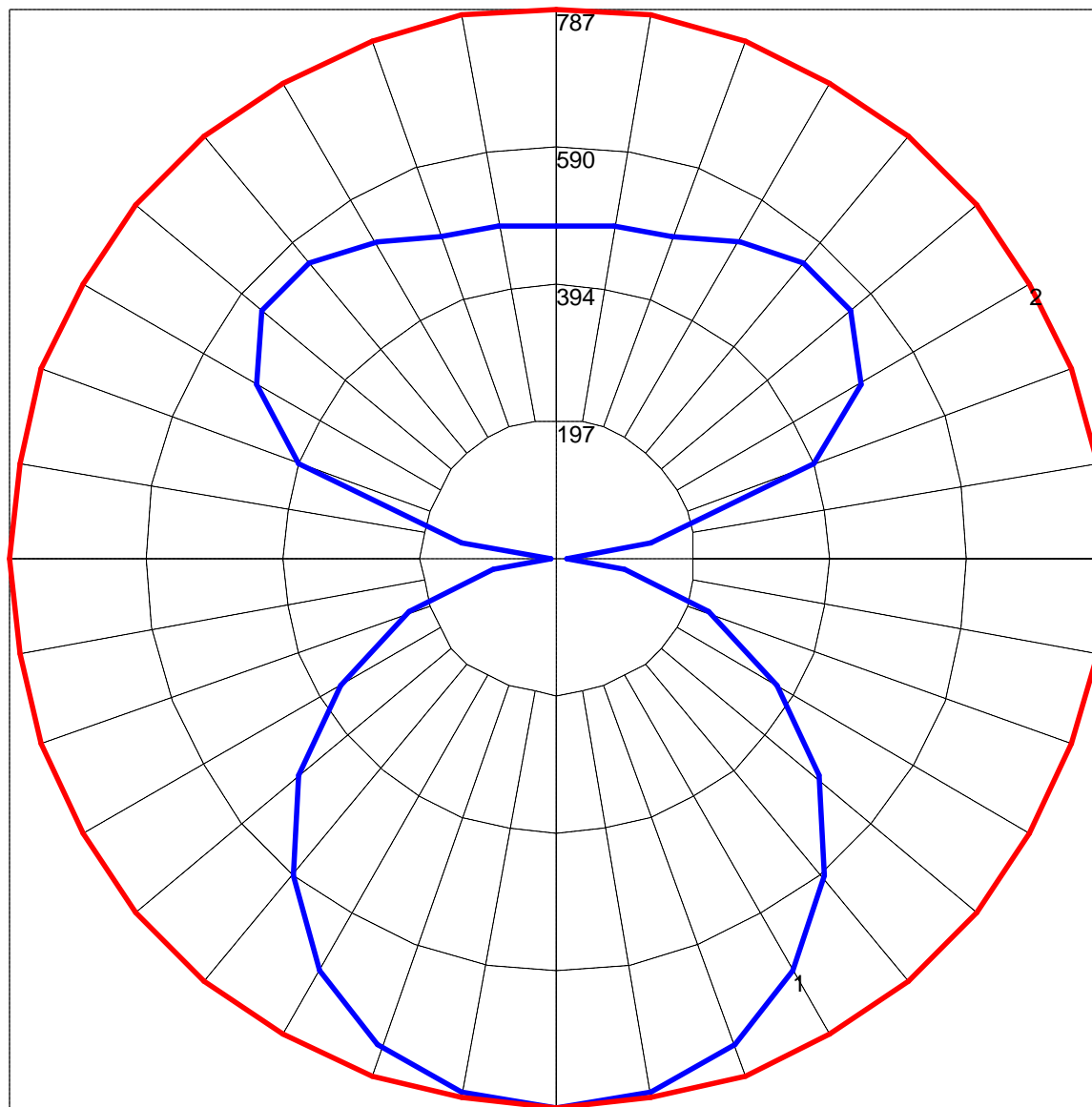
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	85	85	85	71	71	71	59	59	59	53
1	98	94	89	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	89	81	75	70	82	75	70	65	64	60	57	54	51	48	45	43	41	36
3	81	71	64	58	75	66	60	54	57	52	47	48	44	41	39	37	34	30
4	74	63	55	49	68	59	51	46	50	45	40	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	39	45	39	35	38	33	30	32	28	25	22
6	63	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22	19
7	58	45	37	31	53	42	35	30	36	31	26	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	26	33	27	23	28	24	20	24	20	18	15
9	50	37	30	25	46	35	28	23	30	25	21	26	22	18	22	18	16	14
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	20	17	14	12

POLAR GRAPH



Maximum Candela = 787.078 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.)