



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-HO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_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-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	4256
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
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	3199	2770	2603
55	3060	2531	2331
65	2829	2195	1960
75	2429	1674	1412
85	1981	984	741

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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	763.474	763.474	763.474	763.474	763.474	763.474	763.474	763.474	763.474	763.474
10	756.334	753.257	752.716	751.422	750.813	749.626	749.416	748.327	747.549	746.343
20	721.565	719.320	717.971	715.845	713.997	712.039	709.609	707.888	705.851	704.221
30	662.080	660.824	659.359	655.179	652.908	646.303	643.259	640.729	637.850	636.543
40	576.211	575.444	574.042	570.692	567.284	563.906	560.727	556.860	553.278	550.901
50	472.073	470.682	469.501	467.918	464.453	460.967	457.533	452.851	449.841	447.343
60	351.639	351.218	351.735	350.739	348.015	345.162	341.403	337.915	334.521	330.970
70	221.514	222.231	222.972	222.904	221.831	219.788	217.052	213.085	209.646	206.328
80	93.960	95.117	96.614	96.940	96.621	95.725	94.048	91.765	88.274	84.704
90	11.304	11.707	12.295	12.930	14.294	18.868	20.039	23.240	22.001	13.015
100	131.502	143.186	136.862	134.520	135.313	131.298	122.235	108.022	91.309	72.457
110	380.094	386.944	385.090	362.626	325.286	297.166	265.266	225.069	176.232	154.999
120	486.416	470.846	485.511	458.930	435.933	401.179	352.632	300.940	257.233	237.417
130	533.167	505.108	507.890	510.540	463.068	429.512	391.150	349.605	326.084	316.392
140	532.916	509.503	488.497	486.747	483.247	454.402	415.114	390.975	382.607	381.465
150	503.715	486.514	470.277	455.223	446.993	439.960	431.996	427.460	425.444	424.719
160	470.986	461.791	454.043	445.760	436.769	432.499	431.464	432.739	431.481	431.173
170	465.456	461.086	458.171	456.872	454.348	451.673	450.350	448.494	448.063	448.315
180	462.696	462.696	462.696	462.696	462.696	462.696	462.696	462.696	462.696	462.696

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	279.66	N.A.	6.60
0-30	594.95	N.A.	14.00
0-40	976.46	N.A.	22.90
0-60	1735.61	N.A.	40.80
0-80	2179.97	N.A.	51.20
0-90	2240.1	N.A.	52.60
10-90	2167.84	N.A.	50.90
20-40	696.80	N.A.	16.40
20-50	1094.32	N.A.	25.70
40-70	1038.48	N.A.	24.40
60-80	444.36	N.A.	10.40
70-80	165.03	N.A.	3.90
80-90	60.13	N.A.	1.40
90-110	299.00	N.A.	7.00
90-120	641.81	N.A.	15.10
90-130	1012.28	N.A.	23.80
90-150	1638.7	N.A.	38.50
90-180	2015.82	N.A.	47.40
110-180	1716.82	N.A.	40.30
0-180	4255.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	72.26
10-20	207.40
20-30	315.29
30-40	381.51
40-50	397.52
50-60	361.63
60-70	279.34
70-80	165.03
80-90	60.13
90-100	75.91
100-110	223.10
110-120	342.80
120-130	370.47
130-140	343.17
140-150	283.26
150-160	206.38
160-170	126.99
170-180	43.75

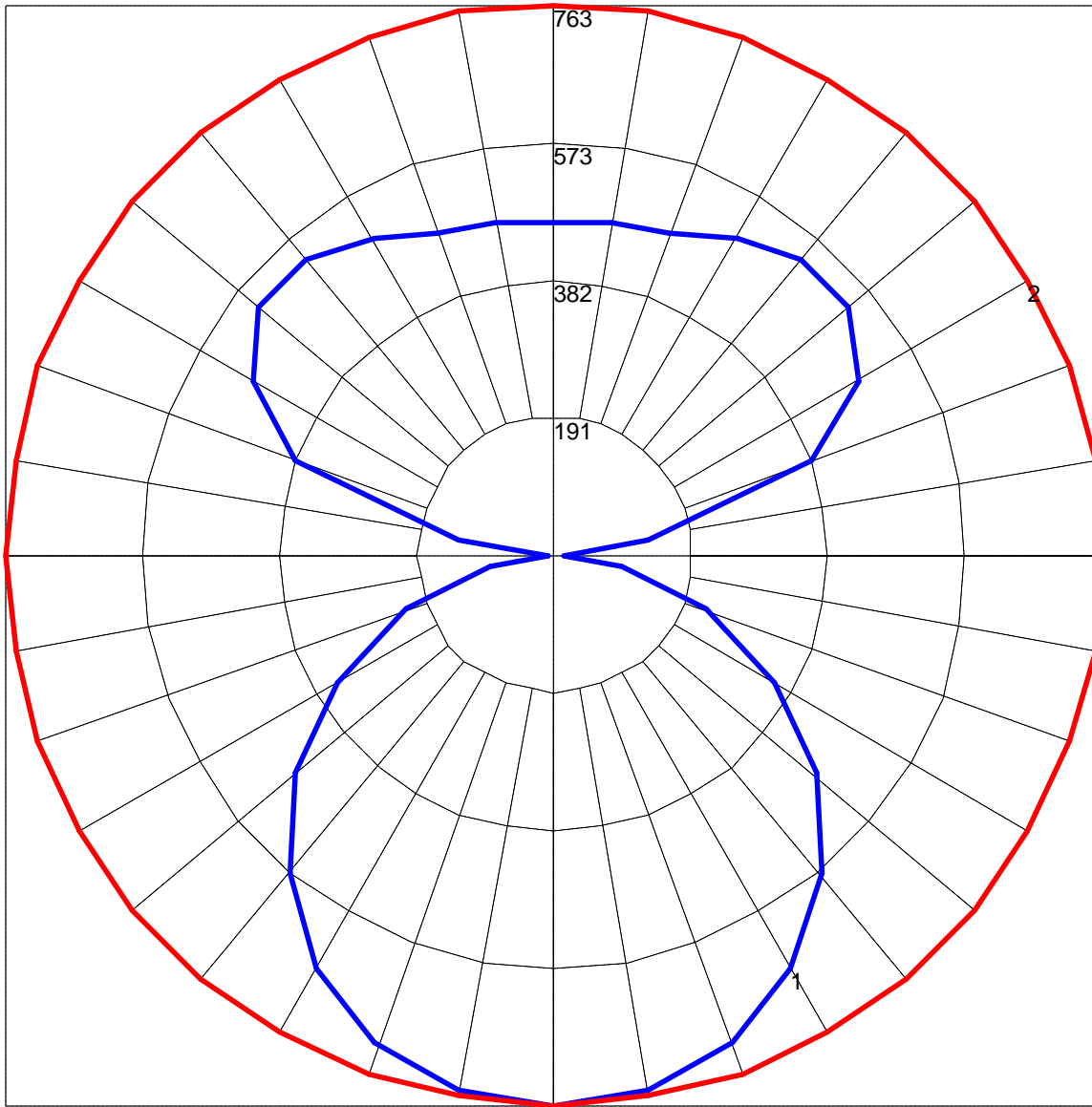
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	34	38	33	30	31	28	25	22
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	28	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 = 763.474 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.)