



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-5050-FL-HO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_HO(950)_5050_N2S_5-16-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 05-16-2016
[TESTDATE] 01-12-2017
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] HRZ-4-LED-5050-FL-HO-40
[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	4537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
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	3411	2953	2775
55	3262	2699	2485
65	3016	2340	2089
75	2590	1784	1505
85	2111	1049	790

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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	813.938	813.938	813.938	813.938	813.938	813.938	813.938	813.938	813.938	813.938
10	806.326	803.046	802.469	801.090	800.440	799.175	798.951	797.790	796.961	795.675
20	769.259	766.866	765.427	763.161	761.191	759.103	756.513	754.678	752.506	750.769
30	705.842	704.503	702.941	698.485	696.064	689.022	685.777	683.080	680.011	678.617
40	614.297	613.480	611.985	608.414	604.780	601.179	597.790	593.667	589.849	587.315
50	503.276	501.793	500.534	498.846	495.152	491.436	487.775	482.784	479.575	476.912
60	374.882	374.433	374.984	373.922	371.018	367.977	363.969	360.250	356.632	352.846
70	236.156	236.920	237.710	237.638	236.494	234.316	231.399	227.169	223.503	219.966
80	100.171	101.404	103.000	103.348	103.007	102.052	100.264	97.831	94.109	90.303
90	12.051	12.481	13.108	13.785	15.239	20.115	21.364	24.776	23.455	13.875
100	140.194	152.650	145.908	143.412	144.257	139.977	130.314	115.162	97.344	77.246
110	405.218	412.520	410.544	386.595	346.787	316.808	282.800	239.946	187.881	165.244
120	518.567	501.968	517.602	489.264	464.747	427.696	375.940	320.832	274.236	253.110
130	568.408	538.495	541.461	544.286	493.676	457.902	417.004	372.713	347.638	337.305
140	568.141	543.180	520.786	518.920	515.189	484.437	442.552	416.818	407.897	406.679
150	537.010	518.672	501.361	485.312	476.538	469.041	460.550	455.714	453.565	452.792
160	502.117	492.314	484.054	475.224	465.639	461.086	459.983	461.342	460.001	459.673
170	496.222	491.563	488.455	487.070	484.380	481.528	480.117	478.139	477.679	477.948
180	493.279	493.279	493.279	493.279	493.279	493.279	493.279	493.279	493.279	493.279

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	298.14	N.A.	6.60
0-30	634.28	N.A.	14.00
0-40	1041.00	N.A.	22.90
0-60	1850.33	N.A.	40.80
0-80	2324.06	N.A.	51.20
0-90	2388.16	N.A.	52.60
10-90	2311.13	N.A.	50.90
20-40	742.86	N.A.	16.40
20-50	1166.65	N.A.	25.70
40-70	1107.12	N.A.	24.40
60-80	473.73	N.A.	10.40
70-80	175.93	N.A.	3.90
80-90	64.10	N.A.	1.40
90-110	318.77	N.A.	7.00
90-120	684.23	N.A.	15.10
90-130	1079.19	N.A.	23.80
90-150	1747.02	N.A.	38.50
90-180	2149.06	N.A.	47.40
110-180	1830.3	N.A.	40.30
0-180	4537.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.03
10-20	221.11
20-30	336.13
30-40	406.73
40-50	423.79
50-60	385.53
60-70	297.80
70-80	175.93
80-90	64.10
90-100	80.92
100-110	237.85
110-120	365.46
120-130	394.96
130-140	365.85
140-150	301.98
150-160	220.02
160-170	135.38
170-180	46.64

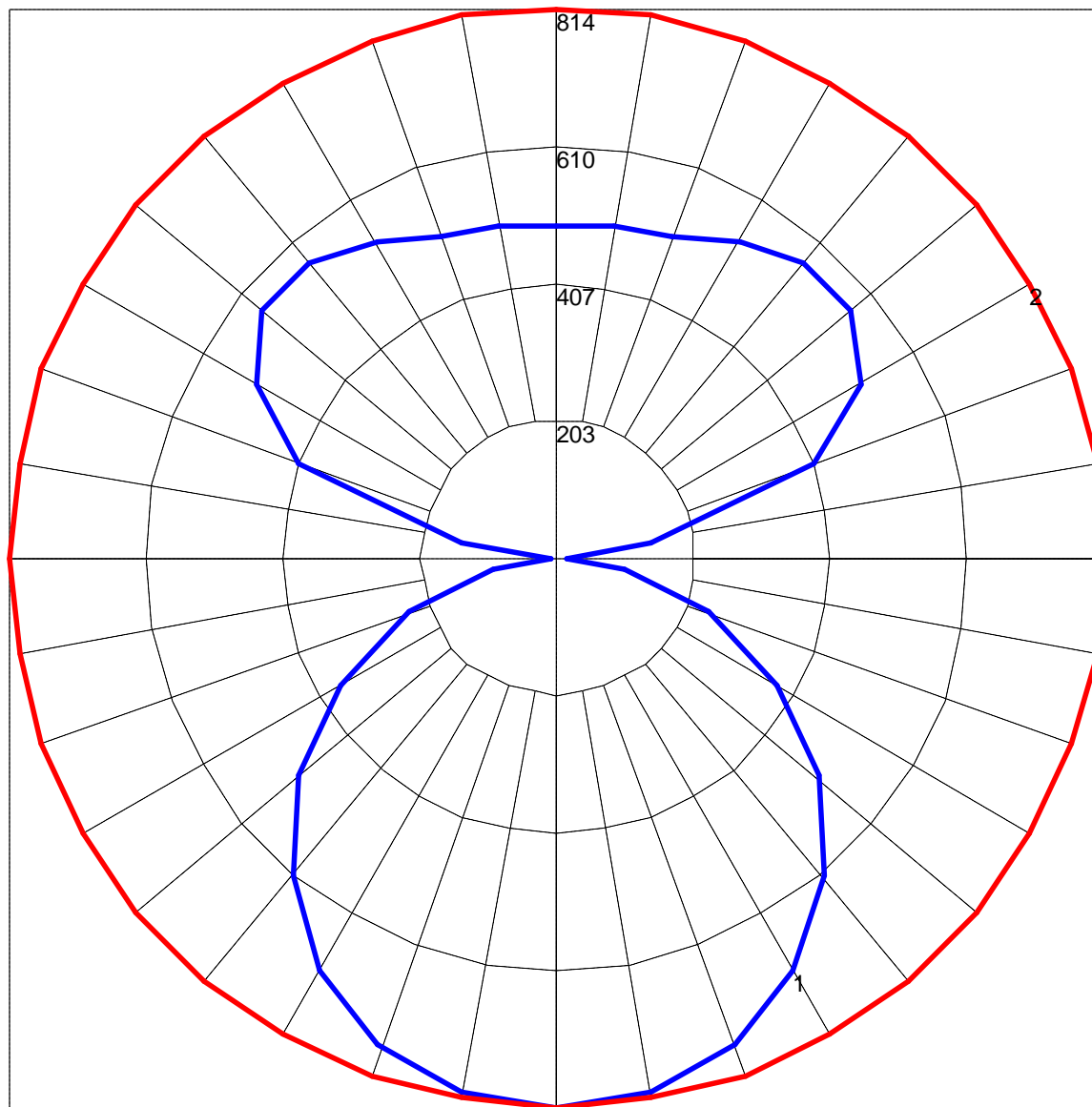
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	31	28	25	22
6	63	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 = 813.938 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.)