



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-6040-FL-SS-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_SS(750)_6040_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-6040-FL-SS-40
[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	4079
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	36.7
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	2204	1908	1806
55	2111	1752	1632
65	1956	1527	1390
75	1711	1194	1042
85	1646	821	644

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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	519.603	519.603	519.603	519.603	519.603	519.603	519.603	519.603	519.603	519.603
10	513.510	513.320	512.460	511.441	510.981	511.002	509.658	509.891	509.123	508.939
20	492.052	491.618	490.346	488.595	486.972	485.944	484.498	483.998	482.911	482.286
30	451.374	451.189	449.805	446.858	444.835	442.583	440.496	438.711	438.184	437.458
40	396.924	396.389	395.931	392.560	390.396	387.449	385.606	383.665	382.154	380.750
50	325.358	324.867	324.735	323.614	320.817	318.291	316.436	313.783	312.552	311.685
60	242.899	243.904	244.761	242.865	241.497	239.465	237.280	235.583	233.705	233.120
70	153.410	154.197	154.819	155.591	154.854	153.631	152.789	150.905	149.123	148.012
80	68.821	69.545	70.743	71.384	71.781	71.918	70.839	69.584	67.636	66.783
90	18.637	19.471	20.268	20.864	21.714	22.609	22.628	25.154	25.007	18.156
100	126.001	131.289	138.609	147.252	151.961	151.299	144.743	130.819	115.401	95.484
110	445.017	447.437	438.731	427.163	402.162	376.078	337.219	289.971	223.212	192.661
120	603.233	608.497	594.345	572.068	541.722	502.663	447.267	377.453	314.224	294.670
130	663.774	671.417	653.018	629.414	598.096	551.172	495.586	432.574	401.463	392.535
140	671.609	676.853	665.152	631.315	593.666	557.315	518.685	488.011	476.279	474.879
150	628.740	631.074	625.297	606.187	582.369	557.239	536.718	527.785	523.003	522.627
160	583.025	585.873	586.074	583.201	577.012	572.756	569.214	568.777	567.493	567.398
170	579.426	580.469	582.750	585.193	586.955	588.560	588.685	587.839	587.445	586.699
180	580.875	580.875	580.875	580.875	580.875	580.875	580.875	580.875	580.875	580.875

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	190.63	N.A.	4.70
0-30	406.09	N.A.	10.00
0-40	667.84	N.A.	16.40
0-60	1192.94	N.A.	29.20
0-80	1505.81	N.A.	36.90
0-90	1555.96	N.A.	38.10
10-90	1506.77	N.A.	36.90
20-40	477.22	N.A.	11.70
20-50	751.57	N.A.	18.40
40-70	719.96	N.A.	17.60
60-80	312.87	N.A.	7.70
70-80	118.01	N.A.	2.90
80-90	50.15	N.A.	1.20
90-110	349.44	N.A.	8.60
90-120	772.29	N.A.	18.90
90-130	1239.22	N.A.	30.40
90-150	2036.62	N.A.	49.90
90-180	2523.14	N.A.	61.90
110-180	2173.7	N.A.	53.30
0-180	4079.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.19
10-20	141.44
20-30	215.47
30-40	261.75
40-50	274.35
50-60	250.74
60-70	194.87
70-80	118.01
80-90	50.15
90-100	85.97
100-110	263.47
110-120	422.85
120-130	466.93
130-140	436.33
140-150	361.07
150-160	266.17
160-170	164.67
170-180	55.68

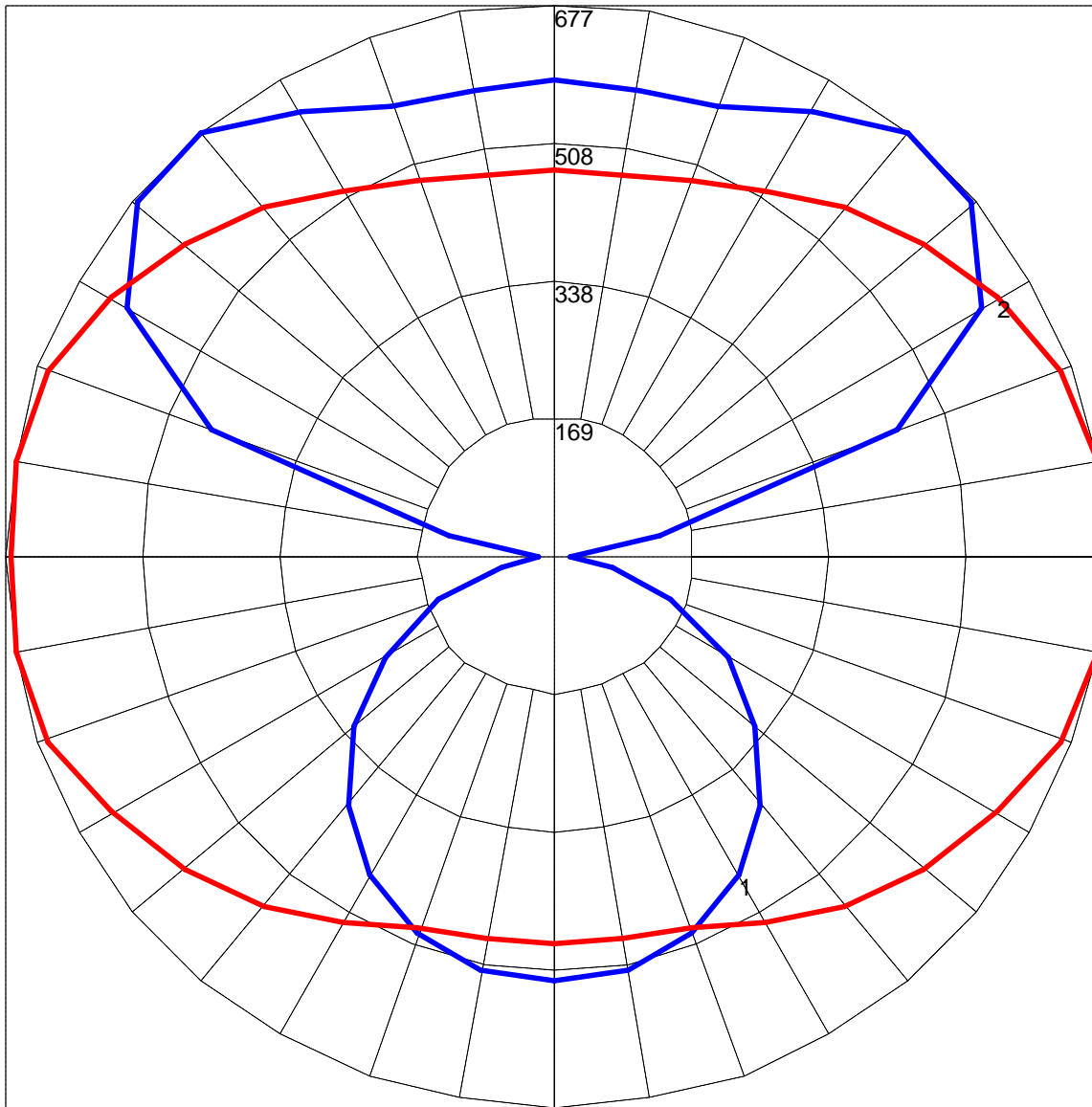
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	90	86	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	72	67	78	72	66	62	58	54	51	46	43	41	34	33	31	26
3	78	69	62	56	71	63	56	51	51	46	43	40	37	34	30	28	26	22
4	72	61	53	47	65	55	49	43	45	40	36	36	32	29	27	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	19	16
6	60	48	40	34	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	43	36	30	50	40	33	28	33	27	23	26	22	19	20	17	15	12
8	52	39	32	26	47	36	29	24	30	24	21	24	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	17	14	12	10
10	45	33	26	21	40	30	24	19	25	20	17	20	16	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 676.853 Located At Horizontal Angle = 10, Vertical Angle = 140
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (140) (Through Max. Cd.)