



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-6040-FL-VHO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_VHO(1250)_6040_N2S_5-11-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-11-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-6040-FL-VHO-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	5683
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	62.7
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	2960	2561	2454
55	2790	2322	2204
65	2520	1987	1861
75	2085	1484	1365
85	1785	928	770

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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	716.006	716.006	716.006	716.006	716.006	716.006	716.006	716.006	716.006	716.006
10	708.276	706.859	705.263	703.551	702.609	700.864	700.122	699.922	698.512	698.971
20	674.932	673.931	670.727	668.527	665.902	663.860	662.468	661.359	660.324	660.546
30	615.230	613.657	610.044	606.930	604.202	601.693	599.595	598.696	597.200	597.232
40	536.097	533.626	532.631	528.402	525.848	523.001	520.877	519.100	518.445	518.734
50	433.676	432.536	432.537	430.764	427.524	425.131	423.592	422.161	421.845	422.348
60	317.370	317.590	318.077	318.205	316.866	315.397	314.692	313.583	312.922	313.476
70	193.157	194.043	195.369	196.579	197.408	197.418	197.146	196.692	196.114	196.804
80	77.614	77.656	80.068	81.991	83.167	84.079	85.814	85.328	84.271	84.556
90	17.267	18.127	18.812	19.308	20.473	24.865	27.124	25.760	21.623	16.937
100	199.229	211.345	210.476	214.508	219.806	210.444	192.756	166.611	149.657	126.922
110	665.263	675.723	670.360	639.928	593.279	546.651	487.401	410.289	311.477	266.884
120	860.428	876.421	846.699	827.843	778.832	713.116	634.479	528.769	445.253	418.321
130	936.806	949.669	928.625	880.523	852.614	785.214	702.645	619.745	575.087	558.455
140	945.764	951.548	940.595	902.676	837.961	780.181	730.276	702.813	687.303	685.429
150	888.759	894.869	883.846	861.317	831.639	799.415	773.369	760.593	752.877	752.286
160	835.495	840.317	844.035	840.939	836.152	833.088	830.715	826.749	824.877	826.618
170	838.593	837.594	840.830	844.770	846.654	847.327	846.279	846.565	845.158	845.711
180	831.953	831.953	831.953	831.953	831.953	831.953	831.953	831.953	831.953	831.953

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	261.65	N.A.	4.60
0-30	555.65	N.A.	9.80
0-40	910.50	N.A.	16.00
0-60	1612.66	N.A.	28.40
0-80	2014.27	N.A.	35.40
0-90	2071.04	N.A.	36.40
10-90	2003.35	N.A.	35.30
20-40	648.85	N.A.	11.40
20-50	1017.72	N.A.	17.90
40-70	956.30	N.A.	16.80
60-80	401.61	N.A.	7.10
70-80	147.47	N.A.	2.60
80-90	56.77	N.A.	1.00
90-110	501.47	N.A.	8.80
90-120	1113.14	N.A.	19.60
90-130	1777.66	N.A.	31.30
90-150	2910.8	N.A.	51.20
90-180	3611.48	N.A.	63.60
110-180	3110.01	N.A.	54.70
0-180	5682.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.70
10-20	193.96
20-30	294.00
30-40	354.85
40-50	368.87
50-60	333.29
60-70	254.14
70-80	147.47
80-90	56.77
90-100	117.10
100-110	384.37
110-120	611.67
120-130	664.52
130-140	619.16
140-150	513.99
150-160	382.80
160-170	237.88
170-180	80.00

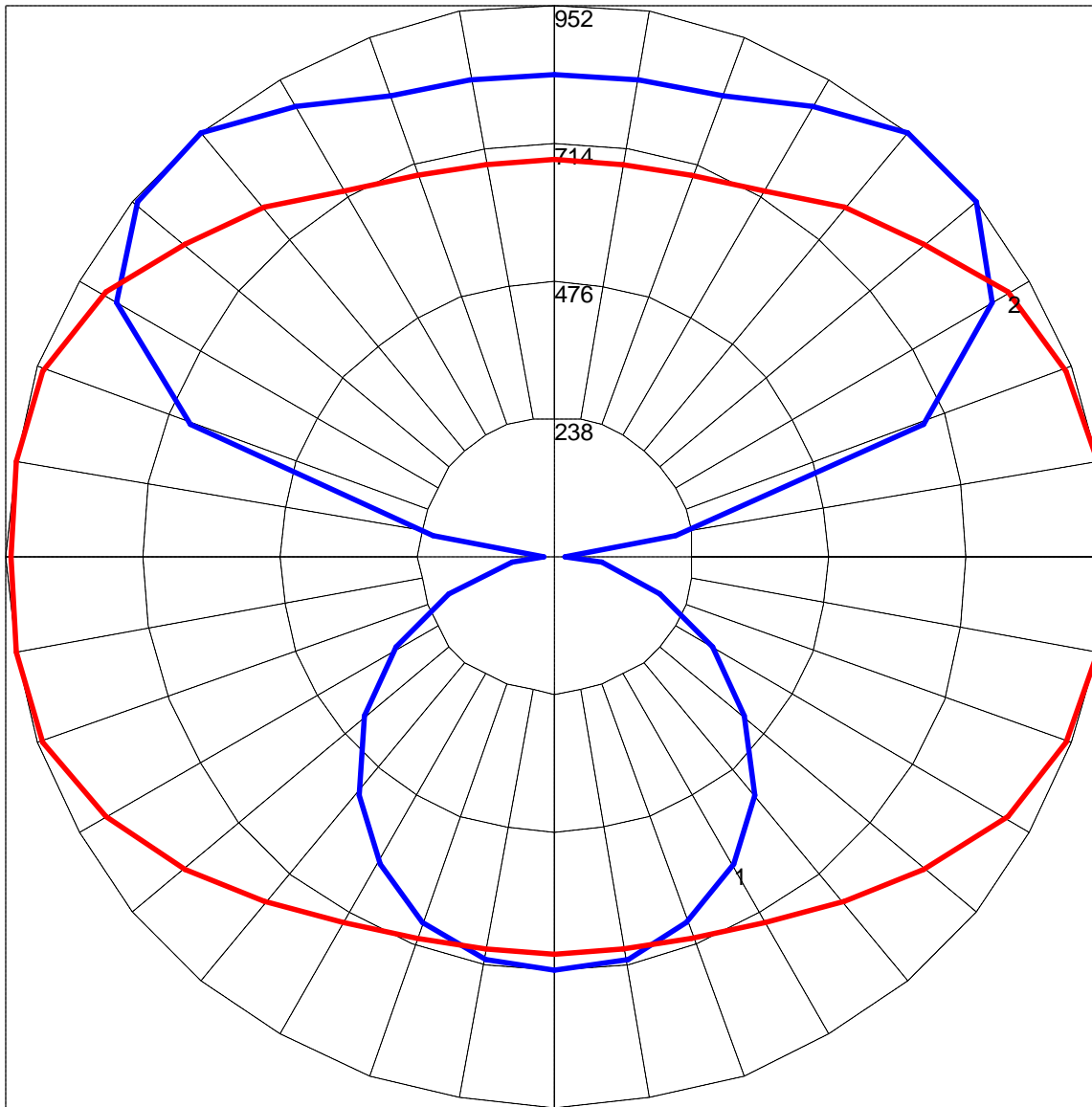
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	90	86	83	85	82	78	75	66	64	62	52	50	49	38	37	36	30
2	86	79	72	67	77	71	66	62	58	54	51	45	43	40	33	32	30	25
3	78	69	62	56	71	63	56	51	51	46	42	40	37	34	29	27	26	21
4	71	61	53	47	64	55	48	43	45	40	36	35	32	29	26	24	22	18
5	65	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	15
6	60	48	40	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14
7	56	43	36	30	50	40	33	28	32	27	23	26	22	19	19	17	15	12
8	51	39	32	26	46	36	29	25	30	24	21	23	20	17	18	15	13	11
9	48	36	28	23	43	33	26	22	27	22	18	22	18	15	16	14	12	10
10	45	33	26	21	40	30	24	19	25	20	16	20	16	14	15	13	11	9

POLAR GRAPH



Maximum Candela = 951.548 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.)