



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_3000K_HO(950)_6040_N2S_5-16-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 05-16-2016
[TESTDATE] 01-12-2017
[MANUFAC] LSI INDUSTRIES, INC
[LUMCAT] HRZ-4-LED-6040-FL-HO-30
[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	4489
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	44.9
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	2429	2097	1992
55	2301	1909	1786
65	2087	1634	1500
75	1728	1214	1077
85	1365	799	561

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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	578.187	578.187	578.187	578.187	578.187	578.187	578.187	578.187	578.187	578.187
10	571.226	570.366	570.243	569.188	568.181	567.129	566.337	566.500	565.970	565.074
20	547.292	546.609	544.206	541.887	540.971	538.818	537.633	536.369	535.530	535.516
30	500.524	500.131	497.841	495.137	492.655	489.644	488.113	486.023	484.794	484.724
40	438.850	437.455	437.301	432.804	430.035	427.330	424.693	422.698	421.716	421.101
50	356.952	356.203	355.703	354.644	351.198	348.542	346.103	344.239	342.719	342.710
60	262.440	262.566	262.987	262.910	261.512	259.228	257.311	255.074	254.293	253.585
70	160.423	160.862	161.645	162.683	162.475	161.760	161.006	159.226	158.047	157.559
80	64.006	64.514	65.586	66.985	67.633	67.810	67.380	66.934	65.216	64.480
90	8.530	9.478	10.549	11.397	12.270	35.447	14.208	16.602	16.081	9.415
100	139.472	147.066	155.364	159.529	163.570	162.567	154.680	138.659	117.240	94.620
110	513.899	521.142	508.378	494.750	459.576	424.713	380.942	320.925	241.296	204.451
120	682.884	694.585	680.916	643.567	614.279	568.415	495.107	410.828	340.941	316.865
130	749.298	757.941	743.463	709.395	668.706	608.569	541.558	477.025	438.421	425.805
140	743.459	747.831	736.401	707.605	666.682	622.523	575.084	531.810	514.342	512.063
150	698.519	702.158	695.301	675.830	651.612	620.555	595.937	579.763	573.033	570.661
160	644.298	645.405	646.751	641.305	634.816	627.263	623.279	621.138	618.246	617.356
170	630.843	630.107	631.926	634.505	636.803	636.502	635.925	634.524	634.343	633.445
180	626.797	626.797	626.797	626.797	626.797	626.797	626.797	626.797	626.797	626.797

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	211.80	N.A.	4.70
0-30	450.70	N.A.	10.00
0-40	740.05	N.A.	16.50
0-60	1315.08	N.A.	29.30
0-80	1643.64	N.A.	36.60
0-90	1687.97	N.A.	37.60
10-90	1633.26	N.A.	36.40
20-40	528.25	N.A.	11.80
20-50	829.99	N.A.	18.50
40-70	783.51	N.A.	17.50
60-80	328.55	N.A.	7.30
70-80	120.07	N.A.	2.70
80-90	44.33	N.A.	1.00
90-110	383.36	N.A.	8.50
90-120	860.89	N.A.	19.20
90-130	1383.29	N.A.	30.80
90-150	2267.78	N.A.	50.50
90-180	2801.03	N.A.	62.40
110-180	2417.66	N.A.	53.90
0-180	4489.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.71
10-20	157.10
20-30	238.90
30-40	289.35
40-50	301.74
50-60	273.29
60-70	208.48
70-80	120.07
80-90	44.33
90-100	87.94
100-110	295.43
110-120	477.53
120-130	522.40
130-140	484.57
140-150	399.91
150-160	293.61
160-170	179.46
170-180	60.18

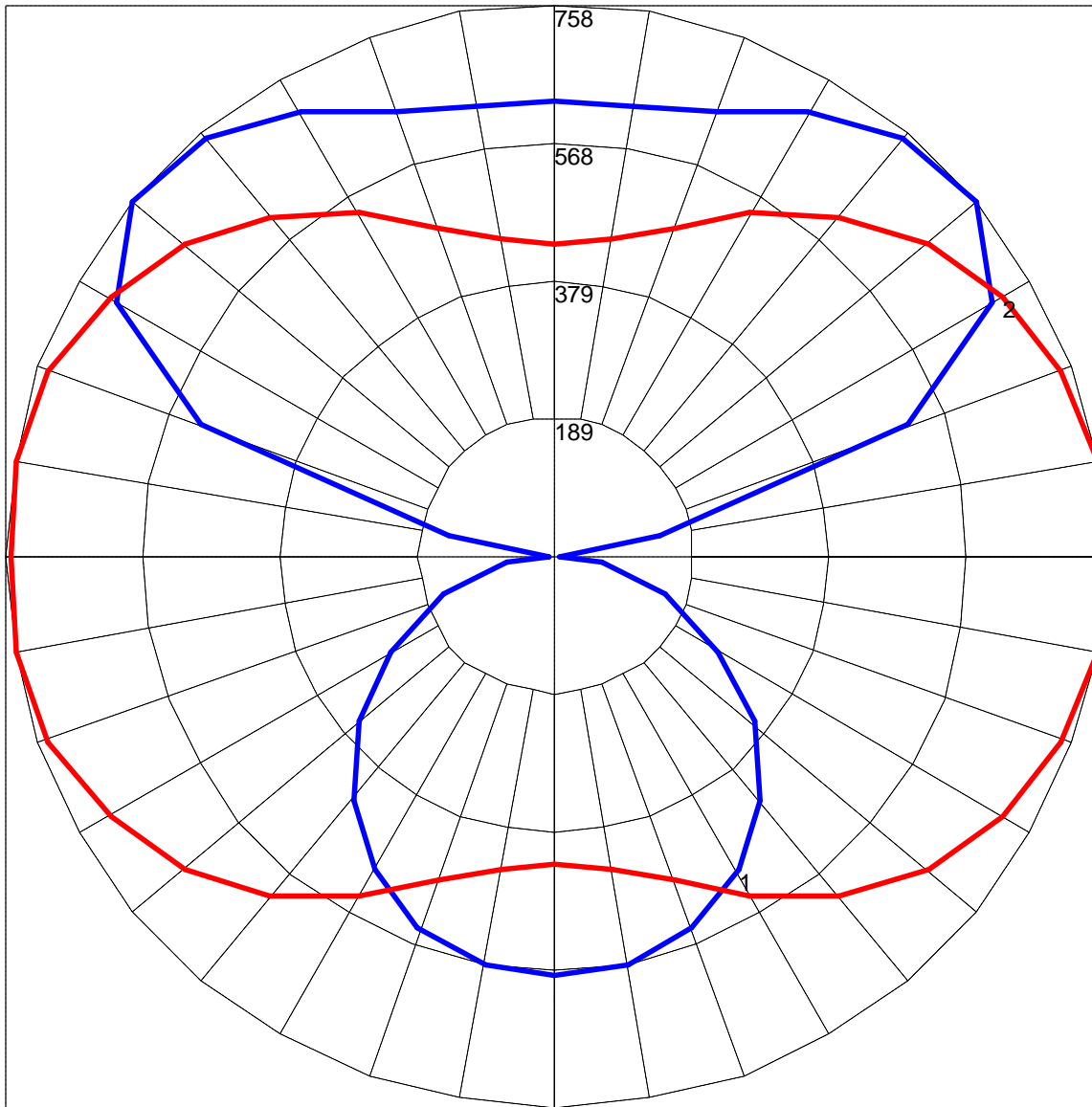
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	76	76	76	60	60	60	45	45	45	38
1	95	90	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	46	43	41	34	33	31	26
3	78	69	62	56	71	63	57	51	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	56	49	43	45	40	36	36	32	29	27	24	23	19
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	28	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	16	13	11	9

POLAR GRAPH



Maximum Candela = 757.941 Located At Horizontal Angle = 10, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (10 - 190) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)