



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L250_4000K_VHO(1250)_3070_N2S_5-12-2016
[TESTLAB] Orb Optronix, Inc.
[ISSUE DATE] 05-12-2016
[TEST DATE] 01-12-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] HRZ-4-LED-3070-FL-VHO-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	5259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	62.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	4828	4185	4071
55	4483	3734	3624
65	3906	3095	3023
75	2985	2150	2127
85	2080	1140	1018

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-VHO-40.IES

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	1220.860	1220.860	1220.860	1220.860	1220.860	1220.860	1220.860	1220.860	1220.860	1220.860
10	1211.604	1200.808	1196.123	1193.332	1190.018	1188.809	1187.823	1184.494	1184.826	1185.160
20	1140.132	1131.131	1125.891	1122.395	1119.313	1117.765	1116.456	1116.459	1114.664	1115.949
30	1029.207	1021.473	1017.161	1013.169	1010.959	1007.809	1005.991	1005.535	1006.656	1008.404
40	877.810	872.379	867.931	865.043	862.090	861.626	860.624	860.670	861.728	864.379
50	703.966	699.362	697.073	692.927	692.312	691.116	691.245	692.724	694.668	696.835
60	503.072	501.420	501.021	501.255	501.576	502.782	504.262	506.039	508.960	513.105
70	288.410	287.911	294.841	291.156	293.960	301.644	305.150	307.938	311.504	315.753
80	99.238	100.249	102.244	104.605	107.768	110.886	114.373	117.242	119.679	122.661
90	11.336	13.726	15.612	17.008	19.151	23.290	24.559	22.764	20.731	11.453
100	121.687	131.011	140.565	152.727	161.014	164.671	154.820	135.890	111.645	90.144
110	321.429	330.451	338.893	315.300	309.524	290.583	269.118	235.329	195.232	170.658
120	425.625	403.352	415.172	424.421	385.305	348.301	347.130	312.847	265.108	247.265
130	468.414	452.117	436.577	444.268	427.456	417.535	383.878	335.431	308.174	297.492
140	480.829	476.311	445.230	435.796	437.280	420.031	392.518	377.156	370.209	366.034
150	467.220	469.322	450.074	425.152	410.999	403.509	401.473	401.256	400.691	399.591
160	439.083	440.767	439.609	430.076	419.845	410.811	406.598	403.558	402.996	403.690
170	436.540	437.391	439.307	441.052	440.136	438.485	436.276	433.749	434.031	433.918
180	429.138	429.138	429.138	429.138	429.138	429.138	429.138	429.138	429.138	429.138

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-VHO-40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	442.97	N.A.	8.40
0-30	936.68	N.A.	17.80
0-40	1526.17	N.A.	29.00
0-60	2667.68	N.A.	50.70
0-80	3283.00	N.A.	62.40
0-90	3353.08	N.A.	63.80
10-90	3237.94	N.A.	61.60
20-40	1083.2	N.A.	20.60
20-50	1687.05	N.A.	32.10
40-70	1540.3	N.A.	29.30
60-80	615.32	N.A.	11.70
70-80	216.53	N.A.	4.10
80-90	70.08	N.A.	1.30
90-110	309.14	N.A.	5.90
90-120	627.25	N.A.	11.90
90-130	967.50	N.A.	18.40
90-150	1548.76	N.A.	29.40
90-180	1906.25	N.A.	36.20
110-180	1597.11	N.A.	30.40
0-180	5259.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.14
10-20	327.83
20-30	493.71
30-40	589.49
40-50	603.85
50-60	537.66
60-70	398.79
70-80	216.53
80-90	70.08
90-100	86.47
100-110	222.67
110-120	318.11
120-130	340.25
130-140	316.94
140-150	264.33
150-160	194.70
160-170	121.44
170-180	41.35

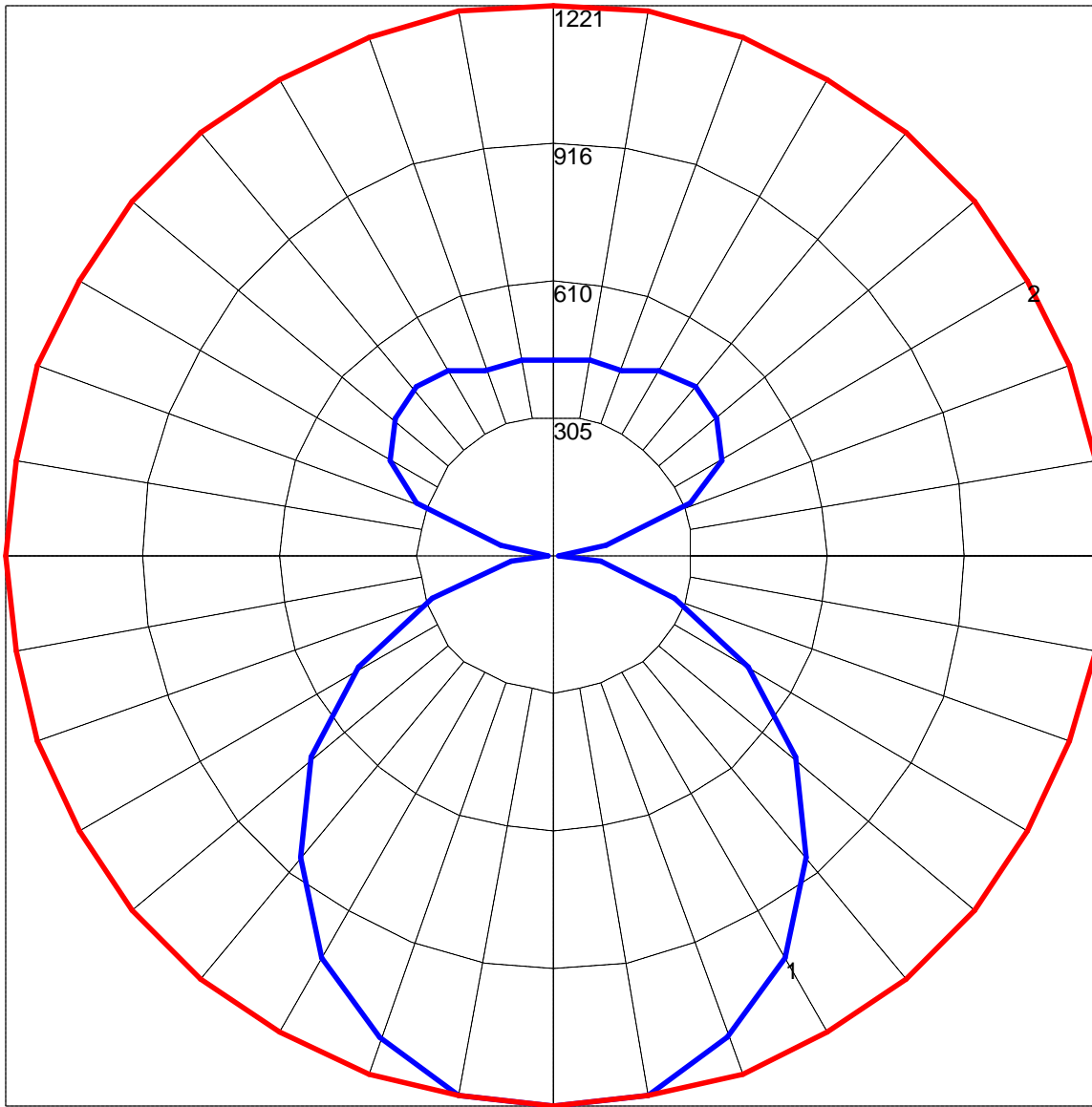
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HRZ-4-LED-3070-FL-VHO-40.IES

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	101	96	92	89	94	90	87	84	80	77	75	70	68	66	61	59	58	53
2	92	84	78	72	86	79	73	69	70	65	62	61	58	55	53	51	49	45
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	47	44	41	38
4	76	65	57	51	71	62	54	48	55	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	38	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	22
8	56	43	35	29	52	41	33	28	36	30	26	32	27	24	29	25	21	19
9	52	39	31	26	49	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	28	23	19	25	20	18	16

POLAR GRAPH



Maximum Candela = 1220.86 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.)