



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-6040-FL-HO-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L450 VHO NW 60 40_Scaled
[TESTLAB] Dekko
[ISSUE DATE] 6/29/2017
[TEST DATE] 04-03-2017
[LUMCAT] CURV-8-LED-6040-FL-HO-30
[MANUFAC] LSI INDUSTRIES, INC.
[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	9884
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	98
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
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.75 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2775	2473	1964
55	2673	2456	1964
65	2419	2331	1937
75	2085	2176	1923
85	2816	3096	2836

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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	1033.709	1033.709	1033.709	1033.709	1033.709	1033.709	1033.709	1033.709	1033.709	1033.709
10	1093.743	1093.743	1086.239	1076.858	1063.726	1050.594	1037.461	1028.081	1020.577	1014.948
20	1195.050	1191.298	1174.414	1148.149	1110.628	1076.858	1043.089	1016.825	996.188	984.932
30	1251.332	1247.580	1221.315	1183.794	1135.016	1084.363	1024.329	977.427	945.534	928.650
40	1193.174	1189.422	1168.785	1131.264	1082.487	1022.453	956.791	898.633	857.359	840.475
50	996.188	996.188	984.932	962.419	924.898	872.368	819.838	769.185	726.035	709.151
60	714.779	718.531	716.655	707.275	688.514	658.497	622.852	589.083	557.190	547.810
70	425.866	431.494	433.370	435.246	431.494	420.237	405.229	384.592	369.584	365.832
80	176.350	181.978	189.482	196.986	202.614	202.614	200.738	196.986	191.358	189.482
90	97.555	97.555	101.307	99.431	99.431	97.555	95.679	93.803	91.927	86.299
100	345.195	352.699	386.468	386.468	362.080	343.319	324.558	305.798	275.781	253.268
110	1029.957	1016.825	1005.568	983.055	934.278	879.872	797.326	671.629	551.562	485.900
120	1422.053	1408.921	1382.656	1330.127	1258.836	1159.405	1039.337	885.500	759.804	694.142
130	1564.634	1559.006	1513.980	1461.451	1382.656	1270.093	1140.644	1041.213	926.774	874.244
140	1547.750	1547.750	1508.352	1457.699	1392.037	1307.614	1228.819	1133.140	1052.470	1016.825
150	1463.327	1467.079	1455.823	1420.177	1388.284	1332.003	1258.836	1183.794	1131.264	1110.628
160	1393.913	1382.656	1382.656	1365.772	1332.003	1294.481	1251.332	1215.687	1196.926	1183.794
170	1275.721	1271.969	1271.969	1268.217	1264.464	1258.836	1249.456	1245.704	1238.200	1230.695
180	1223.191	1223.191	1223.191	1223.191	1223.191	1223.191	1223.191	1223.191	1223.191	1223.191

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	404.65	N.A.	4.10
0-30	912.69	N.A.	9.20
0-40	1583.93	N.A.	16.00
0-60	3013.1	N.A.	30.50
0-80	3862.81	N.A.	39.10
0-90	4021.27	N.A.	40.70
10-90	3921.49	N.A.	39.70
20-40	1179.28	N.A.	11.90
20-50	1920.71	N.A.	19.40
40-70	1958.4	N.A.	19.80
60-80	849.70	N.A.	8.60
70-80	320.47	N.A.	3.20
80-90	158.46	N.A.	1.60
90-110	861.72	N.A.	8.70
90-120	1847.76	N.A.	18.70
90-130	2934.22	N.A.	29.70
90-150	4773.91	N.A.	48.30
90-180	5862.81	N.A.	59.30
110-180	5001.09	N.A.	50.60
0-180	9884.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.78
10-20	304.87
20-30	508.04
30-40	671.24
40-50	741.43
50-60	687.74
60-70	529.23
70-80	320.47
80-90	158.46
90-100	236.70
100-110	625.02
110-120	986.04
120-130	1086.46
130-140	1007.87
140-150	831.82
150-160	607.76
160-170	362.72
170-180	118.42

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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39	33
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32	27
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27	22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	28	25	23	19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20	16
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17	14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	11.4	12.2	12.4	13.2	14.6	9.9	10.7	10.9	11.7	13.1
	3H	13.1	13.8	14.1	14.8	16.3	11.7	12.4	12.7	13.5	14.9
	4H	13.7	14.4	14.7	15.4	16.8	12.4	13.1	13.5	14.2	15.6
	6H	14.1	14.8	15.2	15.8	17.2	13.1	13.7	14.1	14.8	16.2
	8H	14.3	14.9	15.4	16.0	17.4	13.4	14.0	14.4	15.1	16.5
	12H	14.5	15.1	15.6	16.2	17.6	13.7	14.3	14.8	15.4	16.8

UGR Viewed Endwise

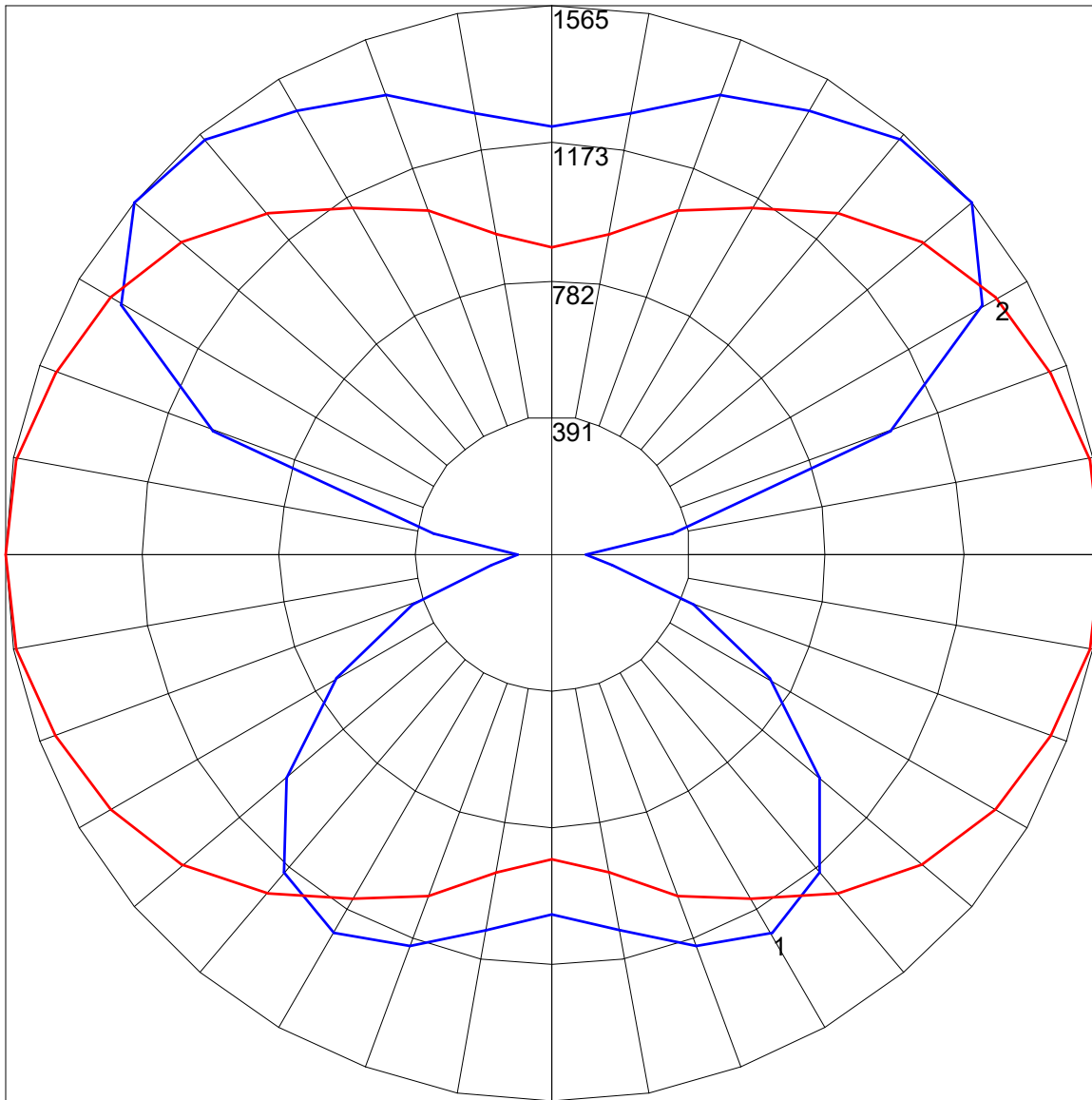
4H	2H	11.9	12.6	12.9	13.6	15.0	10.7	11.4	11.7	12.4	13.8
	3H	13.8	14.4	14.8	15.4	16.9	12.7	13.3	13.8	14.4	15.8
	4H	14.5	15.1	15.6	16.1	17.6	13.6	14.1	14.7	15.2	16.7
	6H	15.1	15.6	16.2	16.7	18.1	14.4	14.8	15.4	15.9	17.4
	8H	15.4	15.8	16.5	16.9	18.4	14.7	15.2	15.8	16.3	17.7
	12H	15.7	16.1	16.8	17.2	18.7	15.1	15.5	16.2	16.6	18.1

8H	4H	14.8	15.2	15.9	16.3	17.8	14.0	14.4	15.1	15.5	17.0
	6H	15.6	15.9	16.7	17.0	18.5	14.9	15.3	16.0	16.4	17.9
	8H	16.0	16.3	17.1	17.4	18.9	15.5	15.8	16.6	16.9	18.4
	12H	16.4	16.7	17.5	17.8	19.3	16.0	16.3	17.1	17.4	18.9

12H	4H	14.8	15.2	15.9	16.3	17.8	14.0	14.4	15.1	15.5	17.0
	6H	15.6	16.0	16.7	17.1	18.6	15.0	15.4	16.1	16.5	18.0
	8H	16.1	16.4	17.2	17.5	19.0	15.6	15.9	16.7	17.0	18.5

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 1564.634 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)