



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-2080-FL-HO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 VHO NW 20 80_Scaled
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-03-2017
 [LUMCAT] CURV-8-LED-2080-FL-HO-35
 [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	7570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	98
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.52
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	4008	3688	3147
55	3786	3573	3037
65	3338	3267	2842
75	2719	2813	2538
85	2923	3222	2864

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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	1810.355	1810.355	1810.355	1810.355	1810.355	1810.355	1810.355	1810.355	1810.355	1810.355
10	1850.972	1845.170	1835.499	1825.828	1812.289	1798.750	1787.145	1779.409	1771.672	1769.738
20	1901.260	1891.589	1874.182	1847.104	1816.157	1779.409	1746.528	1717.516	1700.109	1694.307
30	1899.325	1887.721	1862.577	1818.092	1769.738	1711.714	1655.624	1609.204	1574.390	1560.851
40	1742.660	1732.989	1711.714	1671.097	1620.809	1556.983	1493.156	1429.329	1386.778	1365.503
50	1419.659	1417.725	1408.054	1384.844	1348.096	1293.940	1233.981	1177.891	1135.340	1117.933
60	1003.819	1007.687	1005.753	999.950	982.543	949.663	910.980	870.363	839.417	825.878
70	570.571	576.374	580.242	582.176	580.242	568.637	553.164	539.625	522.218	514.481
80	214.690	222.426	228.229	234.031	237.899	237.899	234.031	228.229	222.426	218.558
90	69.629	71.563	75.431	75.431	75.431	75.431	71.563	71.563	67.695	59.958
100	160.534	162.468	174.073	185.677	179.875	172.138	156.665	137.324	106.378	92.839
110	276.582	276.582	266.911	266.911	263.043	255.306	230.163	191.480	164.402	152.797
120	328.804	332.672	326.870	313.331	292.055	272.714	241.767	220.492	208.887	205.019
130	344.277	352.013	348.145	330.738	313.331	297.858	280.450	264.977	253.372	251.438
140	340.409	355.882	350.079	344.277	334.606	319.133	311.397	301.726	293.989	290.121
150	338.474	350.079	350.079	346.211	346.211	340.409	334.606	324.936	321.067	321.067
160	334.606	346.211	350.079	350.079	348.145	346.211	346.211	344.277	340.409	338.474
170	328.804	340.409	344.277	346.211	348.145	346.211	348.145	348.145	348.145	348.145
180	340.409	340.409	340.409	340.409	340.409	340.409	340.409	340.409	340.409	340.409

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	683.48	N.A.	9.00
0-30	1500.94	N.A.	19.80
0-40	2540.12	N.A.	33.60
0-60	4655.58	N.A.	61.50
0-80	5819.2	N.A.	76.90
0-90	5983.5	N.A.	79.00
10-90	5810.84	N.A.	76.80
20-40	1856.64	N.A.	24.50
20-50	2967.78	N.A.	39.20
40-70	2861.37	N.A.	37.80
60-80	1163.62	N.A.	15.40
70-80	417.70	N.A.	5.50
80-90	164.31	N.A.	2.20
90-110	331.79	N.A.	4.40
90-120	585.74	N.A.	7.70
90-130	845.64	N.A.	11.20
90-150	1297.72	N.A.	17.10
90-180	1586.53	N.A.	21.00
110-180	1254.75	N.A.	16.60
0-180	7570.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.67
10-20	510.81
20-30	817.46
30-40	1039.18
40-50	1111.14
50-60	1004.32
60-70	745.92
70-80	417.70
80-90	164.31
90-100	124.27
100-110	207.51
110-120	253.95
120-130	259.90
130-140	243.74
140-150	208.34
150-160	158.18
160-170	97.90
170-180	32.73

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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	104	99	95	91	99	95	91	87	87	84	81	79	77	75	72	71	69	65
2	94	86	79	74	90	82	76	71	75	70	66	69	65	62	63	60	57	54
3	86	75	67	61	81	72	65	59	66	60	55	61	56	52	56	52	48	45
4	78	66	58	51	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	59	50	44	68	57	49	43	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	43	37	33	40	35	31	29
7	61	48	39	33	58	46	38	32	43	36	31	39	33	29	36	31	27	25
8	57	43	35	29	54	42	34	29	39	32	27	36	30	26	33	28	24	22
9	53	40	32	26	50	38	31	26	36	29	24	33	27	23	31	26	22	20
10	49	36	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

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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	15.6	16.8	16.2	17.5	18.3	UGR Viewed Endwise			
	3H	17.2	18.3	17.8	19.0	19.8	14.5	15.7	15.1	16.4
	4H	17.7	18.8	18.4	19.5	20.3	16.2	17.3	16.9	18.0
	6H	18.1	19.1	18.8	19.8	20.6	16.8	17.9	17.5	18.6
	8H	18.2	19.2	19.0	19.9	20.8	17.3	18.3	18.0	19.0
	12H	18.4	19.3	19.1	20.0	20.9	17.5	18.4	18.2	19.1

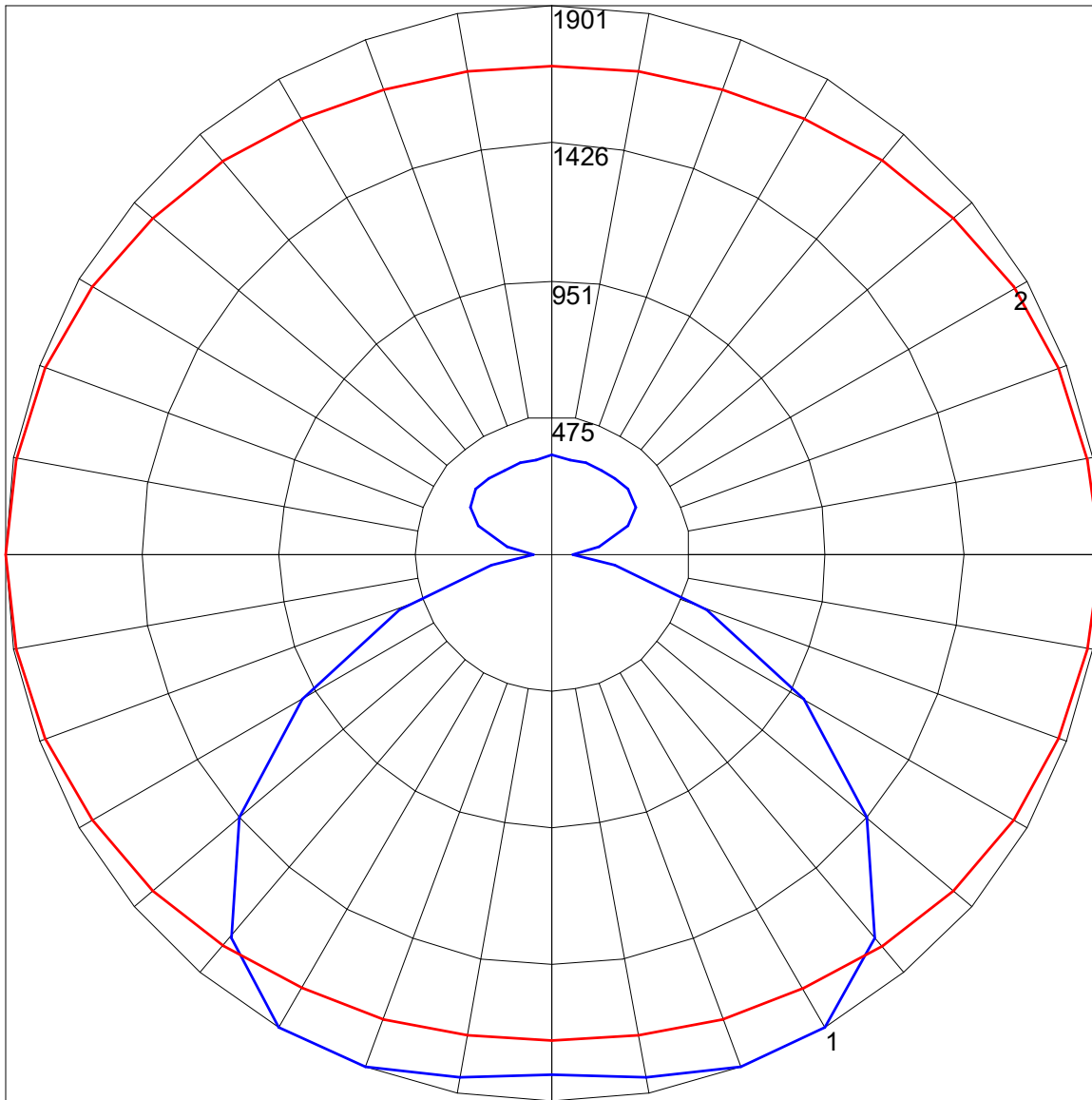
4H	2H	16.1	17.1	16.8	17.8	18.7	17.7	18.6	18.4	19.3
	3H	17.9	18.8	18.6	19.5	20.4	15.2	16.3	15.9	17.0
	4H	18.6	19.4	19.3	20.1	21.0	17.1	18.0	17.8	18.7
	6H	19.1	19.8	19.8	20.6	21.5	17.9	18.7	18.6	19.4
	8H	19.3	20.0	20.0	20.7	21.6	18.5	19.2	19.2	20.0
	12H	19.5	20.1	20.3	20.9	21.8	18.7	19.4	19.5	20.1

8H	4H	18.9	19.5	19.6	20.3	21.2	19.0	19.6	19.8	20.4
	6H	19.5	20.0	20.3	20.8	21.7	18.2	18.9	19.0	19.7
	8H	19.8	20.3	20.6	21.1	22.0	19.0	19.5	19.7	20.3
	12H	20.1	20.6	20.9	21.3	22.3	19.3	19.8	20.1	20.6

12H	4H	18.9	19.5	19.6	20.2	21.1	20.5	20.9	21.9	
	6H	19.6	20.0	20.3	20.8	21.8	18.3	18.9	19.0	19.6
	8H	19.9	20.3	20.7	21.1	22.1	19.1	19.5	19.8	20.3

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 1901.26 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)