



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-2080-FL-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 VHO NW 20 80
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-03-2017
 [LUMCAT] CURV-8-LED-2080-FL-VHO-40
 [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	11546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	143.8
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	6113	5625	4800
55	5775	5450	4632
65	5092	4982	4335
75	4147	4290	3871
85	4459	4914	4368

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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	2761.20	2761.20	2761.20	2761.20	2761.20	2761.20	2761.20	2761.20	2761.20	2761.20
10	2823.15	2814.30	2799.55	2784.80	2764.15	2743.50	2725.80	2714.00	2702.20	2699.25
20	2899.85	2885.10	2858.55	2817.25	2770.05	2714.00	2663.85	2619.60	2593.05	2584.20
30	2896.90	2879.20	2840.85	2773.00	2699.25	2610.75	2525.20	2454.40	2401.30	2380.65
40	2657.95	2643.20	2610.75	2548.80	2472.10	2374.75	2277.40	2180.05	2115.15	2082.70
50	2165.30	2162.35	2147.60	2112.20	2056.15	1973.55	1882.10	1796.55	1731.65	1705.10
60	1531.05	1536.95	1534.00	1525.15	1498.60	1448.45	1389.45	1327.50	1280.30	1259.65
70	870.25	879.10	885.00	887.95	885.00	867.30	843.70	823.05	796.50	784.70
80	327.45	339.25	348.10	356.95	362.85	362.85	356.95	348.10	339.25	333.35
90	106.20	109.15	115.05	115.05	115.05	115.05	109.15	109.15	103.25	91.45
100	244.85	247.80	265.50	283.20	274.35	262.55	238.95	209.45	162.25	141.60
110	421.85	421.85	407.10	407.10	401.20	389.40	351.05	292.05	250.75	233.05
120	501.50	507.40	498.55	477.90	445.45	415.95	368.75	336.30	318.60	312.70
130	525.10	536.90	531.00	504.45	477.90	454.30	427.75	404.15	386.45	383.50
140	519.20	542.80	533.95	525.10	510.35	486.75	474.95	460.20	448.40	442.50
150	516.25	533.95	533.95	528.05	528.05	519.20	510.35	495.60	489.70	489.70
160	510.35	528.05	533.95	533.95	531.00	528.05	528.05	525.10	519.20	516.25
170	501.50	519.20	525.10	528.05	531.00	528.05	531.00	531.00	531.00	531.00
180	519.20	519.20	519.20	519.20	519.20	519.20	519.20	519.20	519.20	519.20

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Zone	Lumens	%Lamp	%Fixt
0-20	1042.46	N.A.	9.00
0-30	2289.27	N.A.	19.80
0-40	3874.26	N.A.	33.60
0-60	7100.81	N.A.	61.50
0-80	8875.59	N.A.	76.90
0-90	9126.19	N.A.	79.00
10-90	8862.84	N.A.	76.80
20-40	2831.8	N.A.	24.50
20-50	4526.54	N.A.	39.20
40-70	4364.24	N.A.	37.80
60-80	1774.78	N.A.	15.40
70-80	637.09	N.A.	5.50
80-90	250.61	N.A.	2.20
90-110	506.05	N.A.	4.40
90-120	893.39	N.A.	7.70
90-130	1289.79	N.A.	11.20
90-150	1979.32	N.A.	17.10
90-180	2419.82	N.A.	21.00
110-180	1913.77	N.A.	16.60
0-180	11546.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	263.35
10-20	779.11
20-30	1246.81
30-40	1584.99
40-50	1694.74
50-60	1531.81
60-70	1137.69
70-80	637.09
80-90	250.61
90-100	189.54
100-110	316.51
110-120	387.34
120-130	396.41
130-140	371.76
140-150	317.77
150-160	241.27
160-170	149.31
170-180	49.92

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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

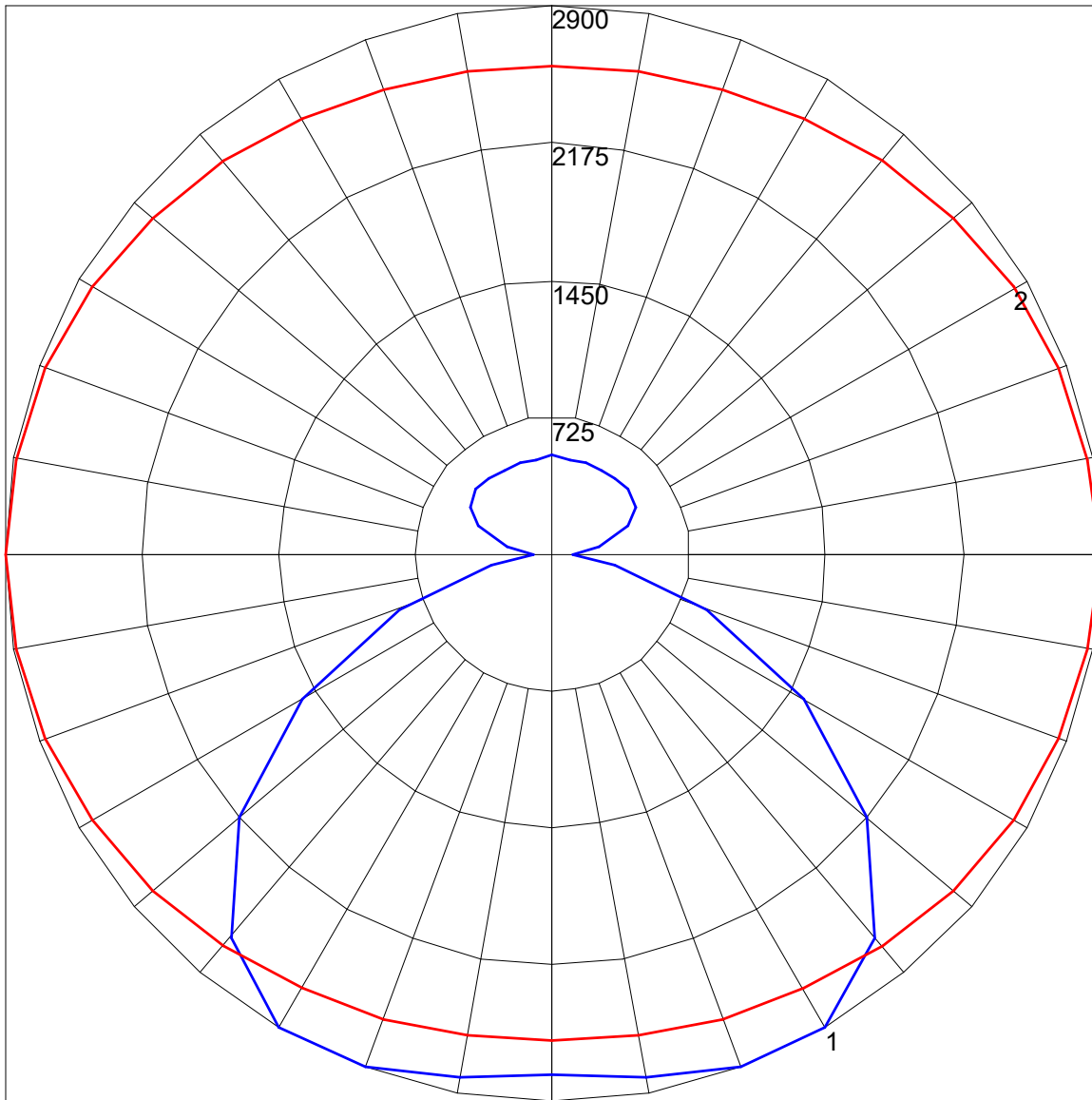
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	17.1	18.3	17.7	19.0	19.8	16.0	17.2	16.6	17.9	18.7
	3H	18.7	19.8	19.3	20.5	21.3	17.7	18.8	18.4	19.5	20.3
	4H	19.2	20.3	19.9	21.0	21.8	18.3	19.4	19.0	20.1	20.9
	6H	19.6	20.6	20.3	21.3	22.1	18.8	19.8	19.5	20.5	21.3
	8H	19.7	20.7	20.5	21.4	22.3	19.0	19.9	19.7	20.6	21.5
	12H	19.9	20.8	20.6	21.5	22.4	19.2	20.1	19.9	20.8	21.7
4H	2H	17.6	18.6	18.3	19.3	20.2	16.7	17.8	17.4	18.5	19.3
	3H	19.4	20.3	20.1	21.0	21.9	18.6	19.5	19.3	20.2	21.1
	4H	20.1	20.9	20.8	21.6	22.5	19.4	20.2	20.1	20.9	21.8
	6H	20.6	21.3	21.3	22.1	23.0	20.0	20.7	20.7	21.5	22.3
	8H	20.8	21.5	21.5	22.2	23.1	20.2	20.9	21.0	21.6	22.5
	12H	21.0	21.6	21.8	22.4	23.3	20.5	21.1	21.3	21.9	22.8
8H	4H	20.4	21.0	21.1	21.8	22.7	19.7	20.4	20.5	21.2	22.1
	6H	21.0	21.5	21.8	22.3	23.2	20.5	21.0	21.2	21.8	22.7
	8H	21.3	21.8	22.1	22.6	23.5	20.8	21.3	21.6	22.1	23.0
	12H	21.6	22.1	22.4	22.8	23.8	21.2	21.6	22.0	22.4	23.4
12H	4H	20.4	21.0	21.1	21.7	22.6	19.8	20.4	20.5	21.1	22.0
	6H	21.1	21.5	21.8	22.3	23.3	20.6	21.0	21.3	21.8	22.8
	8H	21.4	21.8	22.2	22.6	23.6	21.0	21.4	21.7	22.2	23.2

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 2899.85 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.)