



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-2080-FL-VHO-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-VHO-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	11166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	144
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	5912	5440	4642
55	5585	5271	4480
65	4924	4818	4192
75	4011	4149	3744
85	4312	4752	4224

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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	2670.333	2670.333	2670.333	2670.333	2670.333	2670.333	2670.333	2670.333	2670.333	2670.333
10	2730.244	2721.686	2707.421	2693.157	2673.186	2653.216	2636.098	2624.686	2613.275	2610.422
20	2804.420	2790.156	2764.480	2724.539	2678.892	2624.686	2576.187	2533.393	2507.717	2499.158
30	2801.567	2784.450	2747.362	2681.745	2610.422	2524.834	2442.100	2373.629	2322.277	2302.306
40	2570.481	2556.216	2524.834	2464.923	2390.747	2296.601	2202.454	2108.308	2045.544	2014.162
50	2094.043	2091.190	2076.926	2042.691	1988.485	1908.604	1820.163	1737.428	1674.664	1648.988
60	1480.666	1486.371	1483.518	1474.960	1449.283	1400.784	1343.725	1283.814	1238.167	1218.197
70	841.611	850.170	855.876	858.729	855.876	838.758	815.935	795.965	770.288	758.877
80	316.674	328.086	336.645	345.203	350.909	350.909	345.203	336.645	328.086	322.380
90	102.705	105.558	111.264	111.264	111.264	111.264	105.558	105.558	99.852	88.441
100	236.792	239.645	256.763	273.880	265.322	253.910	231.087	202.557	156.911	136.940
110	407.968	407.968	393.703	393.703	387.997	376.585	339.497	282.439	242.498	225.381
120	484.996	490.702	482.143	462.173	430.791	402.262	356.615	325.233	308.115	302.410
130	507.820	519.231	513.526	487.849	462.173	439.350	413.673	390.850	373.733	370.880
140	502.114	524.937	516.379	507.820	493.555	470.732	459.320	445.056	433.644	427.938
150	499.261	516.379	516.379	510.673	510.673	502.114	493.555	479.291	473.585	473.585
160	493.555	510.673	516.379	516.379	513.526	510.673	510.673	507.820	502.114	499.261
170	484.996	502.114	507.820	510.673	513.526	510.673	513.526	513.526	513.526	513.526
180	502.114	502.114	502.114	502.114	502.114	502.114	502.114	502.114	502.114	502.114

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1008.16	N.A.	9.00
0-30	2213.93	N.A.	19.80
0-40	3746.76	N.A.	33.60
0-60	6867.13	N.A.	61.50
0-80	8583.5	N.A.	76.90
0-90	8825.86	N.A.	79.00
10-90	8571.18	N.A.	76.80
20-40	2738.61	N.A.	24.50
20-50	4377.58	N.A.	39.20
40-70	4220.62	N.A.	37.80
60-80	1716.37	N.A.	15.40
70-80	616.12	N.A.	5.50
80-90	242.36	N.A.	2.20
90-110	489.39	N.A.	4.40
90-120	863.99	N.A.	7.70
90-130	1247.35	N.A.	11.20
90-150	1914.18	N.A.	17.10
90-180	2340.19	N.A.	21.00
110-180	1850.79	N.A.	16.60
0-180	11166.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	254.69
10-20	753.47
20-30	1205.78
30-40	1532.83
40-50	1638.97
50-60	1481.4
60-70	1100.25
70-80	616.12
80-90	242.36
90-100	183.30
100-110	306.09
110-120	374.59
120-130	383.36
130-140	359.52
140-150	307.31
150-160	233.33
160-170	144.40
170-180	48.28

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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	17.0	18.2	17.6	18.9	19.7	15.9	17.1	16.5	17.8	18.6
	3H	18.6	19.7	19.2	20.4	21.2	17.6	18.7	18.3	19.4	20.2
	4H	19.1	20.2	19.8	20.9	21.7	18.2	19.3	18.9	20.0	20.8
	6H	19.5	20.5	20.2	21.2	22.0	18.7	19.7	19.4	20.4	21.2
	8H	19.6	20.6	20.4	21.3	22.2	18.9	19.8	19.6	20.5	21.4
	12H	19.8	20.7	20.5	21.4	22.3	19.1	20.0	19.8	20.7	21.6

UGR Viewed Endwise

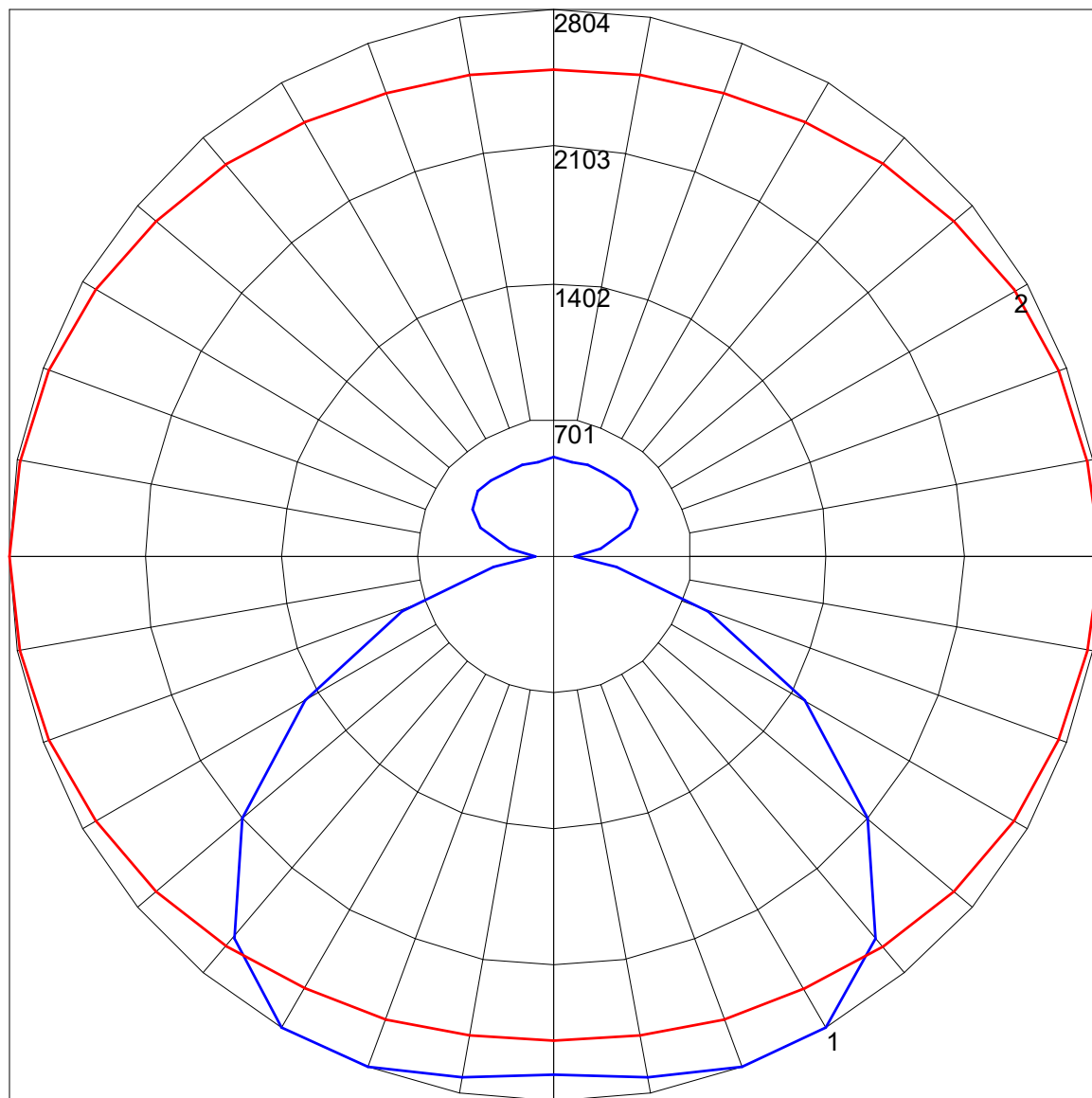
4H	2H	17.5	18.5	18.2	19.2	20.1	16.6	17.7	17.3	18.4	19.2
	3H	19.3	20.2	20.0	20.9	21.8	18.5	19.4	19.2	20.1	21.0
	4H	20.0	20.8	20.7	21.5	22.4	19.3	20.1	20.0	20.8	21.7
	6H	20.5	21.2	21.2	22.0	22.9	19.9	20.6	20.6	21.4	22.2
	8H	20.7	21.4	21.5	22.1	23.0	20.1	20.8	20.9	21.5	22.4
	12H	20.9	21.5	21.7	22.3	23.2	20.4	21.0	21.2	21.8	22.7

8H	4H	20.3	20.9	21.0	21.7	22.6	19.6	20.3	20.4	21.1	22.0
	6H	20.9	21.4	21.7	22.2	23.1	20.4	20.9	21.1	21.7	22.6
	8H	21.2	21.7	22.0	22.5	23.4	20.7	21.2	21.5	22.0	22.9
	12H	21.5	22.0	22.3	22.7	23.7	21.1	21.5	21.9	22.3	23.3

12H	4H	20.3	20.9	21.0	21.6	22.5	19.7	20.3	20.4	21.0	21.9
	6H	21.0	21.4	21.7	22.2	23.2	20.5	20.9	21.2	21.7	22.7
	8H	21.3	21.7	22.1	22.5	23.5	20.9	21.3	21.7	22.1	23.1

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 2804.42 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.)