



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-2080-FL-VHO-30.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-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	10830
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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	5734	5276	4503
55	5417	5112	4345
65	4776	4673	4066
75	3890	4024	3631
85	4182	4609	4097

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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	2589.968	2589.968	2589.968	2589.968	2589.968	2589.968	2589.968	2589.968	2589.968	2589.968
10	2648.076	2639.775	2625.940	2612.105	2592.735	2573.366	2556.763	2545.695	2534.627	2531.860
20	2720.020	2706.185	2681.281	2642.542	2598.269	2545.695	2498.655	2457.149	2432.246	2423.945
30	2717.253	2700.651	2664.679	2601.036	2531.860	2448.848	2368.603	2302.194	2252.387	2233.017
40	2493.121	2479.286	2448.848	2390.740	2318.796	2227.483	2136.170	2044.857	1983.982	1953.544
50	2031.022	2028.255	2014.420	1981.215	1928.641	1851.163	1765.384	1685.140	1624.264	1599.361
60	1436.104	1441.638	1438.871	1430.570	1405.667	1358.626	1303.285	1245.177	1200.904	1181.535
70	816.283	824.584	830.118	832.885	830.118	813.516	791.379	772.010	747.106	736.038
80	307.144	318.212	326.513	334.814	340.348	340.348	334.814	326.513	318.212	312.678
90	99.614	102.381	107.915	107.915	107.915	107.915	102.381	102.381	96.847	85.779
100	229.666	232.433	249.035	265.638	257.337	246.268	224.132	196.461	152.188	132.819
110	395.690	395.690	381.854	381.854	376.320	365.252	329.280	273.939	235.200	218.598
120	470.400	475.934	467.633	448.264	417.826	390.155	345.883	315.445	298.842	293.308
130	492.537	503.605	498.071	473.167	448.264	426.127	401.224	379.087	362.485	359.718
140	487.003	509.139	500.838	492.537	478.701	456.565	445.497	431.661	420.593	415.059
150	484.236	500.838	500.838	495.304	495.304	487.003	478.701	464.866	459.332	459.332
160	478.701	495.304	500.838	500.838	498.071	495.304	495.304	492.537	487.003	484.236
170	470.400	487.003	492.537	495.304	498.071	495.304	498.071	498.071	498.071	498.071
180	487.003	487.003	487.003	487.003	487.003	487.003	487.003	487.003	487.003	487.003

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	977.81	N.A.	9.00
0-30	2147.3	N.A.	19.80
0-40	3634.00	N.A.	33.60
0-60	6660.46	N.A.	61.50
0-80	8325.18	N.A.	76.90
0-90	8560.24	N.A.	79.00
10-90	8313.22	N.A.	76.80
20-40	2656.19	N.A.	24.50
20-50	4245.83	N.A.	39.20
40-70	4093.6	N.A.	37.80
60-80	1664.72	N.A.	15.40
70-80	597.58	N.A.	5.50
80-90	235.07	N.A.	2.20
90-110	474.67	N.A.	4.40
90-120	837.98	N.A.	7.70
90-130	1209.81	N.A.	11.20
90-150	1856.57	N.A.	17.10
90-180	2269.76	N.A.	21.00
110-180	1795.09	N.A.	16.60
0-180	10830.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.02
10-20	730.79
20-30	1169.49
30-40	1486.7
40-50	1589.64
50-60	1436.81
60-70	1067.14
70-80	597.58
80-90	235.07
90-100	177.79
100-110	296.88
110-120	363.32
120-130	371.82
130-140	348.70
140-150	298.06
150-160	226.31
160-170	140.05
170-180	46.82

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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

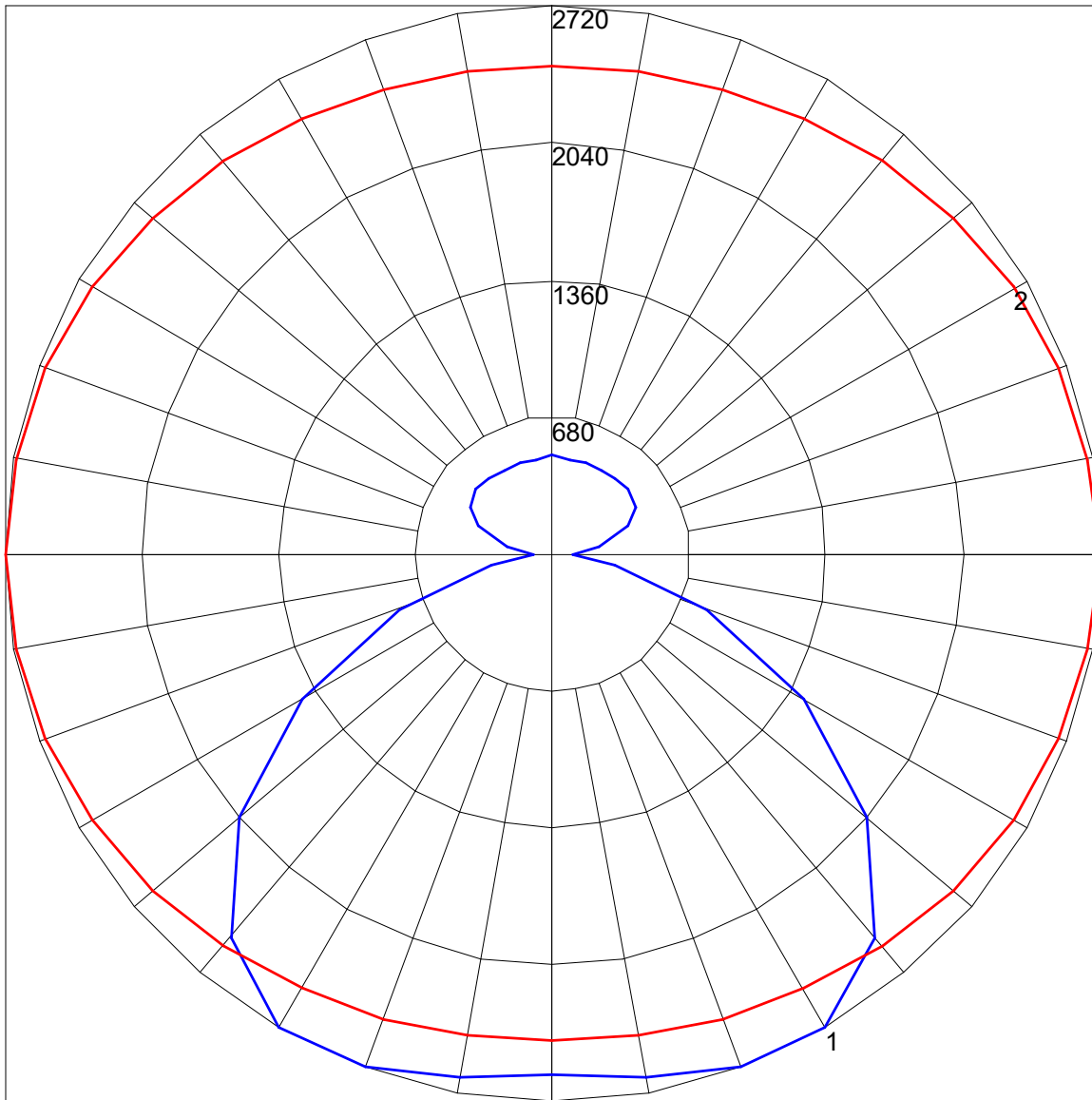
Reflectances

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	16.9	18.1	17.5	18.8	19.6	15.8	17.0	16.4	17.7	18.5
	3H	18.5	19.6	19.1	20.3	21.1	17.5	18.6	18.2	19.3	20.1
	4H	19.0	20.1	19.7	20.8	21.6	18.1	19.2	18.8	19.9	20.7
	6H	19.4	20.4	20.1	21.1	21.9	18.6	19.6	19.3	20.3	21.1
	8H	19.5	20.5	20.3	21.2	22.1	18.8	19.7	19.5	20.4	21.3
	12H	19.7	20.6	20.4	21.3	22.2	19.0	19.9	19.7	20.6	21.5
4H	2H	17.4	18.4	18.1	19.1	20.0	16.5	17.6	17.2	18.3	19.1
	3H	19.2	20.1	19.9	20.8	21.7	18.4	19.3	19.1	20.0	20.9
	4H	19.9	20.7	20.6	21.4	22.3	19.2	20.0	19.9	20.7	21.6
	6H	20.4	21.1	21.1	21.9	22.8	19.8	20.5	20.5	21.3	22.1
	8H	20.6	21.3	21.4	22.0	22.9	20.0	20.7	20.8	21.4	22.3
	12H	20.8	21.4	21.6	22.2	23.1	20.3	20.9	21.1	21.7	22.6
8H	4H	20.2	20.8	20.9	21.6	22.5	19.5	20.2	20.3	21.0	21.9
	6H	20.8	21.3	21.6	22.1	23.0	20.3	20.8	21.0	21.6	22.5
	8H	21.1	21.6	21.9	22.4	23.3	20.6	21.1	21.4	21.9	22.8
	12H	21.4	21.9	22.2	22.6	23.6	21.0	21.4	21.8	22.2	23.2
12H	4H	20.2	20.8	20.9	21.5	22.4	19.6	20.2	20.3	20.9	21.8
	6H	20.9	21.3	21.6	22.1	23.1	20.4	20.8	21.1	21.6	22.6
	8H	21.2	21.6	22.0	22.4	23.4	20.8	21.2	21.5	22.0	23.0

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 2720.02 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.)