



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 VHO NW _Scaled
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-3-2017
 [LUMCAT] CURV-8-LED-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	18297
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	144
Ballast Factor	1.00
CIE Type	Semi-Indirect
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	2755	2129	1410
55	2932	2337	1497
65	2867	2407	1554
75	2746	2444	1630
85	3813	3637	2728

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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	604.713	604.713	604.713	604.713	604.713	604.713	604.713	604.713	604.713	604.713
10	661.761	664.614	658.909	650.352	638.942	627.532	618.975	610.418	604.713	607.565
20	807.235	807.235	787.268	758.744	724.515	687.433	656.057	630.385	613.270	613.270
30	1006.904	992.642	952.708	898.512	832.907	761.596	698.843	650.352	618.975	610.418
40	1118.149	1109.591	1066.805	986.937	904.217	812.940	718.810	647.499	601.861	584.746
50	1055.395	1052.543	1015.462	952.708	867.136	775.858	678.876	601.861	547.665	527.698
60	821.497	824.349	807.235	770.153	707.400	641.795	564.779	499.174	450.682	430.715
70	530.550	533.403	527.698	510.583	479.207	442.125	396.486	353.700	319.471	302.357
80	262.423	268.127	268.127	262.423	253.865	236.751	219.636	199.669	179.702	168.293
90	108.392	108.392	108.392	108.392	108.392	108.392	105.540	102.687	99.835	96.982
100	1058.248	1021.166	1021.166	995.495	909.922	790.120	670.319	547.665	416.453	350.848
110	3297.398	3243.202	3137.662	2940.845	2706.947	2396.033	2033.776	1583.093	1109.591	869.988
120	4127.452	4058.994	3936.340	3742.375	3445.723	3092.023	2624.226	2102.234	1623.027	1391.981
130	4347.088	4290.040	4147.419	3933.487	3648.245	3274.578	2838.158	2407.443	1979.580	1828.401
140	4150.271	4098.928	3979.126	3788.014	3539.853	3277.431	2949.402	2581.440	2253.412	2159.282
150	3805.128	3768.047	3702.441	3611.164	3402.937	3160.481	2920.878	2624.226	2461.639	2401.738
160	3405.790	3374.413	3320.217	3237.497	3123.400	2972.222	2809.634	2695.537	2627.079	2578.588
170	2935.140	2926.583	2903.764	2866.682	2838.158	2803.929	2778.257	2741.176	2712.652	2704.094
180	2755.438	2755.438	2755.438	2755.438	2755.438	2755.438	2755.438	2755.438	2755.438	2755.438

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	249.44	N.A.	1.40
0-30	598.91	N.A.	3.30
0-40	1119.46	N.A.	6.10
0-60	2420.82	N.A.	13.20
0-80	3322.65	N.A.	18.20
0-90	3507.91	N.A.	19.20
10-90	3448.77	N.A.	18.80
20-40	870.02	N.A.	4.80
20-50	1514.69	N.A.	8.30
40-70	1845.69	N.A.	10.10
60-80	901.83	N.A.	4.90
70-80	357.50	N.A.	2.00
80-90	185.26	N.A.	1.00
90-110	2150.67	N.A.	11.80
90-120	4831.81	N.A.	26.40
90-130	7672.39	N.A.	41.90
90-150	12258.08	N.A.	67.00
90-180	14789.34	N.A.	80.80
110-180	12638.67	N.A.	69.10
0-180	18297.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.14
10-20	190.31
20-30	349.47
30-40	520.54
40-50	644.67
50-60	656.69
60-70	544.33
70-80	357.50
80-90	185.26
90-100	486.71
100-110	1663.96
110-120	2681.14
120-130	2840.58
130-140	2548.32
140-150	2037.38
150-160	1437.64
160-170	827.46
170-180	266.16

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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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19
1	90	86	82	79	79	76	73	70	57	55	53	40	38	37	24	23	22	15
2	82	75	69	63	72	66	61	57	49	46	43	34	32	30	20	19	18	12
3	74	65	58	52	65	58	51	47	43	39	36	30	27	25	18	16	15	10
4	68	57	49	44	59	51	44	39	38	33	30	26	23	21	16	14	13	8
5	62	51	43	37	54	45	38	33	34	29	25	23	20	18	14	12	11	7
6	57	45	37	32	50	40	33	28	30	25	22	21	18	15	12	11	9	6
7	52	40	33	27	46	36	29	24	27	22	19	19	16	13	11	9	8	5
8	48	36	29	24	42	32	26	21	24	20	16	17	14	12	10	8	7	4
9	45	33	26	21	39	29	23	19	22	18	14	15	12	10	9	7	6	4
10	42	30	23	18	36	27	20	16	20	16	13	14	11	9	8	7	5	3

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UGR TABLE - CORRECTED

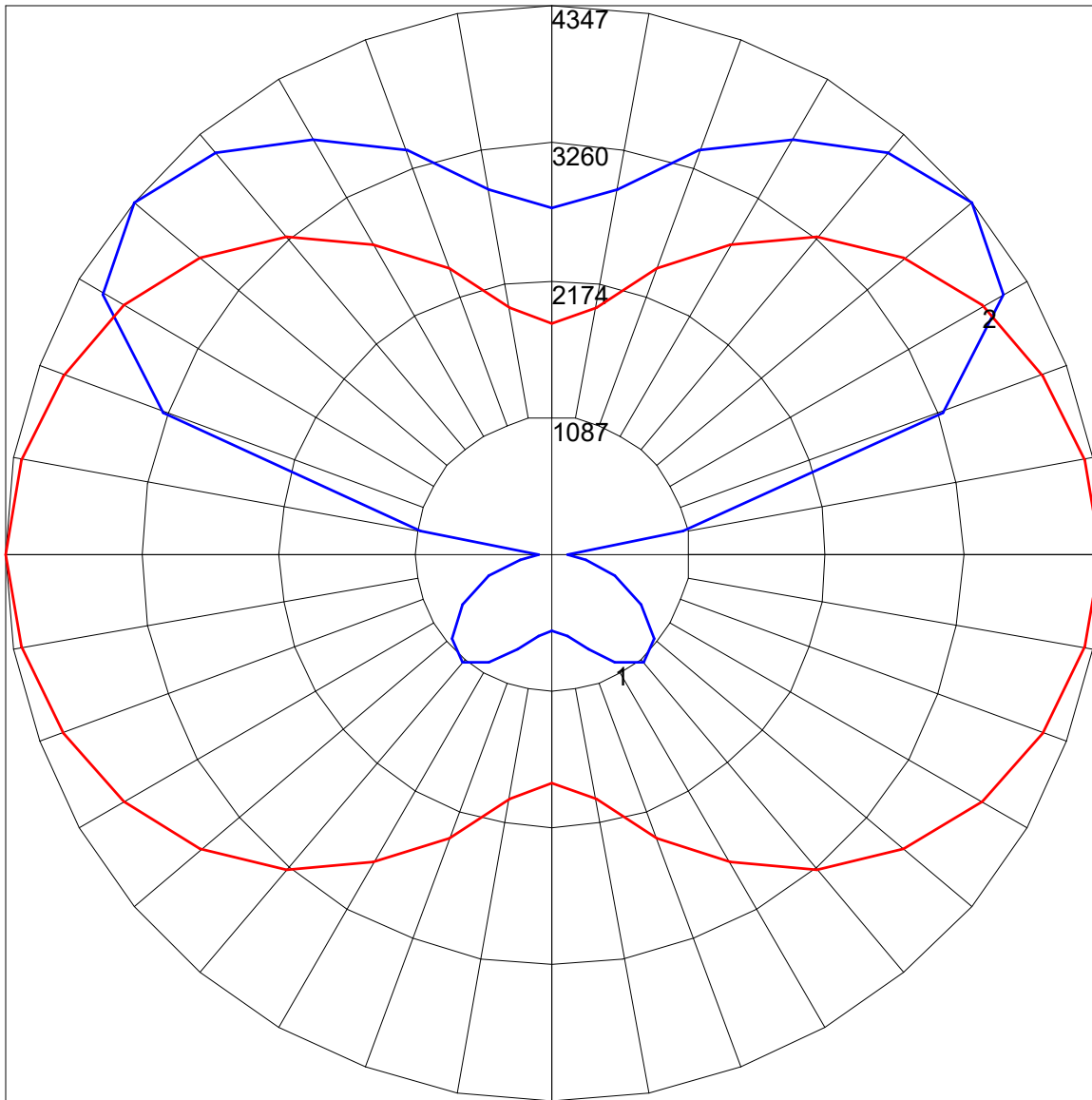
Reflectances

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	10.1	10.1	10.6	11.3	12.9	10.1	10.1	10.1	10.1	10.1
	3H	11.4	12.0	12.6	13.2	14.8	10.1	10.1	10.1	10.1	11.3
	4H	12.2	12.7	13.4	13.9	15.6	10.1	10.1	10.1	10.4	12.1
	6H	12.8	13.3	14.0	14.5	16.2	10.1	10.1	10.6	11.1	12.7
	8H	13.1	13.6	14.3	14.8	16.4	10.1	10.2	10.9	11.4	13.1
	12H	13.4	13.9	14.6	15.0	16.7	10.1	10.6	11.3	11.8	13.5
4H	2H	10.1	10.4	11.0	11.5	13.2	10.1	10.1	10.1	10.1	10.6
	3H	12.0	12.5	13.2	13.7	15.4	10.1	10.1	10.5	11.0	12.6
	4H	13.0	13.4	14.2	14.6	16.3	10.2	10.7	11.4	11.8	13.5
	6H	13.8	14.2	15.0	15.4	17.1	11.0	11.4	12.2	12.6	14.3
	8H	14.2	14.5	15.4	15.7	17.4	11.4	11.8	12.6	13.0	14.7
	12H	14.6	14.9	15.8	16.1	17.8	11.9	12.2	13.1	13.4	15.1
8H	4H	13.2	13.6	14.4	14.8	16.5	10.9	11.2	12.1	12.4	14.1
	6H	14.2	14.5	15.5	15.8	17.5	11.9	12.2	13.1	13.5	15.2
	8H	14.8	15.0	16.0	16.2	18.0	12.5	12.7	13.7	13.9	15.7
	12H	15.3	15.6	16.6	16.8	18.5	13.1	13.3	14.3	14.5	16.3
12H	4H	13.2	13.5	14.4	14.7	16.4	11.0	11.3	12.2	12.5	14.2
	6H	14.3	14.5	15.5	15.8	17.5	12.1	12.4	13.4	13.6	15.3
	8H	14.9	15.1	16.1	16.3	18.1	12.8	13.0	14.0	14.2	16.0

Maximum UGR = 18.5

POLAR GRAPH



Maximum Candela = 4347.088 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.)