



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 VHO NW
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-3-2017
 [LUMCAT] CURV-8-LED-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	18923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	143.8
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	2849	2202	1458
55	3033	2417	1549
65	2965	2490	1608
75	2840	2528	1685
85	3943	3761	2821

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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	625.40	625.40	625.40	625.40	625.40	625.40	625.40	625.40	625.40	625.40
10	684.40	687.35	681.45	672.60	660.80	649.00	640.15	631.30	625.40	628.35
20	834.85	834.85	814.20	784.70	749.30	710.95	678.50	651.95	634.25	634.25
30	1041.35	1026.60	985.30	929.25	861.40	787.65	722.75	672.60	640.15	631.30
40	1156.40	1147.55	1103.30	1020.70	935.15	840.75	743.40	669.65	622.45	604.75
50	1091.50	1088.55	1050.20	985.30	896.80	802.40	702.10	622.45	566.40	545.75
60	849.60	852.55	834.85	796.50	731.60	663.75	584.10	516.25	466.10	445.45
70	548.70	551.65	545.75	528.05	495.60	457.25	410.05	365.80	330.40	312.70
80	271.40	277.30	277.30	271.40	262.55	244.85	227.15	206.50	185.85	174.05
90	112.10	112.10	112.10	112.10	112.10	112.10	109.15	106.20	103.25	100.30
100	1094.45	1056.10	1056.10	1029.55	941.05	817.15	693.25	566.40	430.70	362.85
110	3410.20	3354.15	3245.00	3041.45	2799.55	2478.00	2103.35	1637.25	1147.55	899.75
120	4268.65	4197.85	4071.00	3870.40	3563.60	3197.80	2714.00	2174.15	1678.55	1439.60
130	4495.80	4436.80	4289.30	4068.05	3773.05	3386.60	2935.25	2489.80	2047.30	1890.95
140	4292.25	4239.15	4115.25	3917.60	3660.95	3389.55	3050.30	2669.75	2330.50	2233.15
150	3935.30	3896.95	3829.10	3734.70	3519.35	3268.60	3020.80	2714.00	2545.85	2483.90
160	3522.30	3489.85	3433.80	3348.25	3230.25	3073.90	2905.75	2787.75	2716.95	2666.80
170	3035.55	3026.70	3003.10	2964.75	2935.25	2899.85	2873.30	2834.95	2805.45	2796.60
180	2849.70	2849.70	2849.70	2849.70	2849.70	2849.70	2849.70	2849.70	2849.70	2849.70

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	257.98	N.A.	1.40
0-30	619.40	N.A.	3.30
0-40	1157.75	N.A.	6.10
0-60	2503.63	N.A.	13.20
0-80	3436.32	N.A.	18.20
0-90	3627.92	N.A.	19.20
10-90	3566.75	N.A.	18.80
20-40	899.78	N.A.	4.80
20-50	1566.5	N.A.	8.30
40-70	1908.83	N.A.	10.10
60-80	932.68	N.A.	4.90
70-80	369.73	N.A.	2.00
80-90	191.60	N.A.	1.00
90-110	2224.24	N.A.	11.80
90-120	4997.1	N.A.	26.40
90-130	7934.86	N.A.	41.90
90-150	12677.42	N.A.	67.00
90-180	15295.28	N.A.	80.80
110-180	13071.03	N.A.	69.10
0-180	18923.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.16
10-20	196.82
20-30	361.43
30-40	538.35
40-50	666.73
50-60	679.15
60-70	562.95
70-80	369.73
80-90	191.60
90-100	503.36
100-110	1720.88
110-120	2772.86
120-130	2937.75
130-140	2635.49
140-150	2107.07
150-160	1486.82
160-170	855.76
170-180	275.27

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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

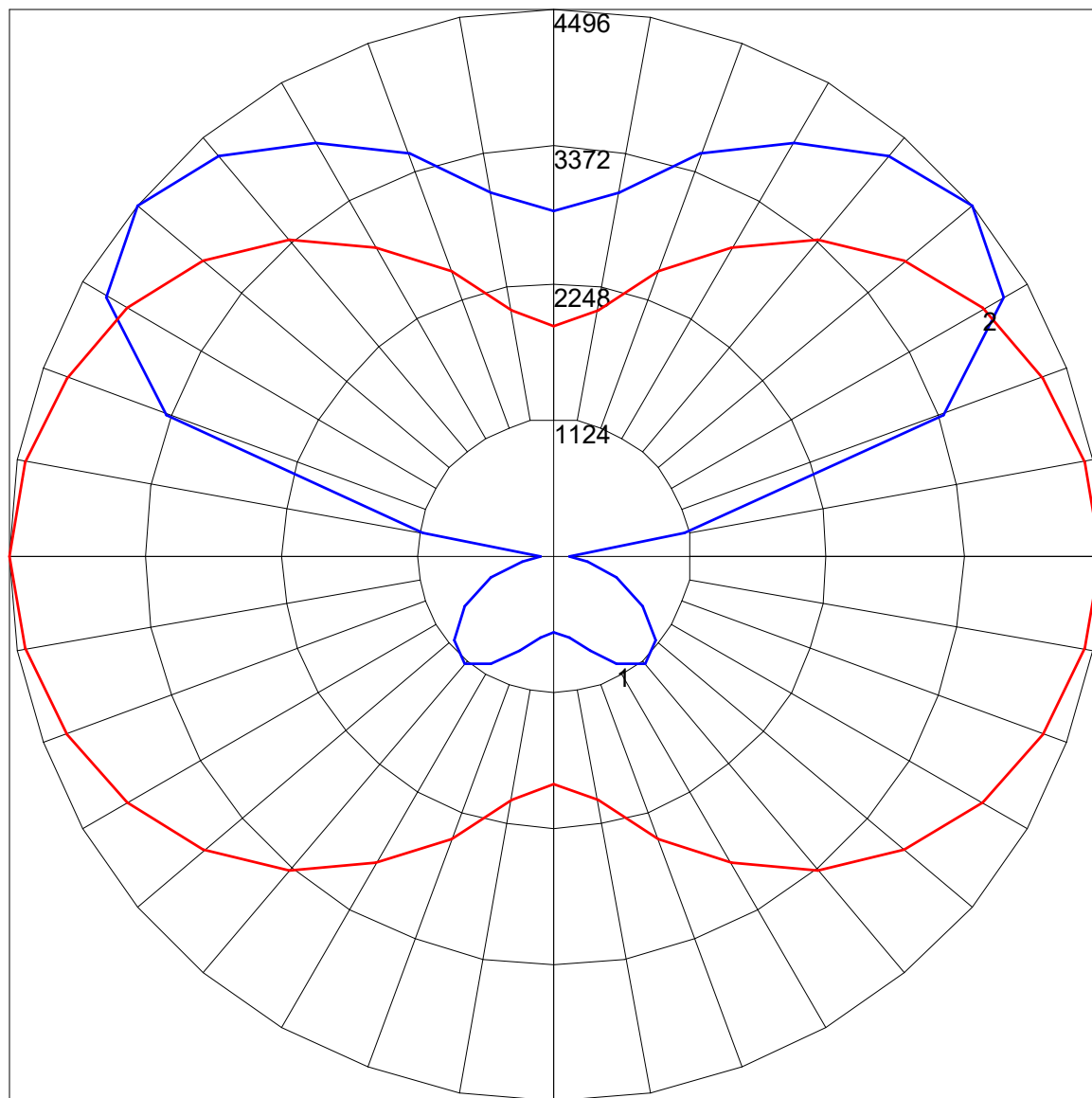
Reflectances

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	10.2	10.2	10.7	11.4	13.0	10.2	10.2	10.2	10.2	10.2
	3H	11.5	12.1	12.7	13.3	14.9	10.2	10.2	10.2	10.2	11.4
	4H	12.3	12.8	13.5	14.0	15.7	10.2	10.2	10.2	10.5	12.2
	6H	12.9	13.4	14.1	14.6	16.3	10.2	10.2	10.7	11.2	12.8
	8H	13.2	13.7	14.4	14.9	16.5	10.2	10.3	11.0	11.5	13.2
	12H	13.5	14.0	14.7	15.1	16.8	10.2	10.7	11.4	11.9	13.6
4H	2H	10.2	10.5	11.1	11.6	13.3	10.2	10.2	10.2	10.2	10.7
	3H	12.1	12.6	13.3	13.8	15.5	10.2	10.2	10.6	11.1	12.7
	4H	13.1	13.5	14.3	14.7	16.4	10.3	10.8	11.5	11.9	13.6
	6H	13.9	14.3	15.1	15.5	17.2	11.1	11.5	12.3	12.7	14.4
	8H	14.3	14.6	15.5	15.8	17.5	11.5	11.9	12.7	13.1	14.8
	12H	14.7	15.0	15.9	16.2	17.9	12.0	12.3	13.2	13.5	15.2
8H	4H	13.3	13.7	14.5	14.9	16.6	11.0	11.3	12.2	12.5	14.2
	6H	14.3	14.6	15.6	15.9	17.6	12.0	12.3	13.2	13.6	15.3
	8H	14.9	15.1	16.1	16.3	18.1	12.6	12.8	13.8	14.0	15.8
	12H	15.4	15.7	16.7	16.9	18.6	13.2	13.4	14.4	14.6	16.4
12H	4H	13.3	13.6	14.5	14.8	16.5	11.1	11.4	12.3	12.6	14.3
	6H	14.4	14.6	15.6	15.9	17.6	12.2	12.5	13.5	13.7	15.4
	8H	15.0	15.2	16.2	16.4	18.2	12.9	13.1	14.1	14.3	16.1

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 4495.8 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.)