



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-5050-FL-SS-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L450 VHO NW 50 50\_Scaled  
 [TESTLAB] Dekko  
 [ISSUE DATE] 6/29/2017  
 [TEST DATE] 04-03-2017  
 [LUMCAT] CURV-8-LED-5050-FL-SS-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	8000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	82
Ballast Factor	1.00
CIE Type	General Diffuse
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	2656	2381	1948
55	2570	2364	1923
65	2320	2222	1862
75	1992	2028	1774
85	2501	2700	2501

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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>
<b>0</b>	1058.519	1058.519	1058.519	1058.519	1058.519	1058.519	1058.519	1058.519	1058.519	1058.519
<b>10</b>	1097.186	1095.575	1087.520	1081.075	1069.797	1061.741	1053.686	1045.630	1042.408	1040.796
<b>20</b>	1160.021	1155.187	1140.687	1121.353	1097.186	1068.186	1044.019	1023.074	1008.574	1003.740
<b>30</b>	1200.299	1195.466	1176.132	1143.909	1103.631	1055.297	1010.185	971.517	947.350	937.683
<b>40</b>	1140.687	1135.854	1118.131	1085.908	1040.796	986.018	932.850	884.516	850.682	837.793
<b>50</b>	955.406	953.795	944.128	921.572	886.127	844.237	795.903	745.958	712.124	699.235
<b>60</b>	689.568	691.179	687.957	679.901	660.567	634.789	602.566	567.121	541.343	531.676
<b>70</b>	404.396	406.007	412.452	410.841	407.618	393.118	383.451	365.729	351.229	346.395
<b>80</b>	170.781	175.614	178.837	183.670	185.281	185.281	182.059	177.225	169.170	165.947
<b>90</b>	72.501	74.112	75.724	77.335	77.335	77.335	77.335	77.335	77.335	77.335
<b>100</b>	290.005	302.894	315.783	315.783	301.283	277.116	254.560	235.226	214.282	199.781
<b>110</b>	725.013	713.735	720.180	708.902	678.290	634.789	571.955	499.453	420.508	380.229
<b>120</b>	940.906	936.072	928.017	908.683	866.793	808.792	729.846	638.011	565.510	530.065
<b>130</b>	1024.685	1031.130	1013.407	990.851	942.517	870.016	799.125	742.736	679.901	647.678
<b>140</b>	1016.629	1026.296	1003.740	977.962	950.573	900.627	857.126	802.348	754.014	736.291
<b>150</b>	974.740	979.573	969.906	952.184	934.461	910.294	881.294	847.460	816.848	805.570
<b>160</b>	932.850	934.461	939.295	926.406	911.905	897.405	878.071	858.738	850.682	842.626
<b>170</b>	879.682	878.071	879.682	879.682	878.071	873.238	870.016	868.404	863.571	861.960
<b>180</b>	860.349	860.349	860.349	860.349	860.349	860.349	860.349	860.349	860.349	860.349

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	406.14	N.A.	5.10
0-30	905.33	N.A.	11.30
0-40	1557.83	N.A.	19.50
0-60	2937.68	N.A.	36.70
0-80	3744.43	N.A.	46.80
0-90	3883.49	N.A.	48.50
10-90	3782.03	N.A.	47.30
20-40	1151.7	N.A.	14.40
20-50	1868.28	N.A.	23.40
40-70	1886.18	N.A.	23.60
60-80	806.75	N.A.	10.10
70-80	300.41	N.A.	3.80
80-90	139.07	N.A.	1.70
90-110	658.94	N.A.	8.20
90-120	1354.74	N.A.	16.90
90-130	2103.53	N.A.	26.30
90-150	3364.25	N.A.	42.10
90-180	4116.43	N.A.	51.50
110-180	3457.49	N.A.	43.20
0-180	7999.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.46
10-20	304.67
20-30	499.19
30-40	652.51
40-50	716.58
50-60	663.26
60-70	506.34
70-80	300.41
80-90	139.07
90-100	190.97
100-110	467.96
110-120	695.80
120-130	748.78
130-140	690.76
140-150	569.96
150-160	418.30
160-170	251.12
170-180	82.75

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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	40
2	88	80	74	68	80	74	68	64	62	58	54	51	48	46	41	39	37	32
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31	27
4	73	62	53	47	67	57	50	44	48	42	38	40	36	32	32	29	26	23
5	67	55	46	40	61	51	43	38	43	37	33	35	31	28	29	25	23	19
6	61	49	40	35	56	45	38	32	38	32	28	32	27	24	26	22	20	17
7	56	44	36	30	52	41	33	28	35	29	25	29	24	21	23	20	17	15
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	15	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	16	20	16	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

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**UGR TABLE - CORRECTED**

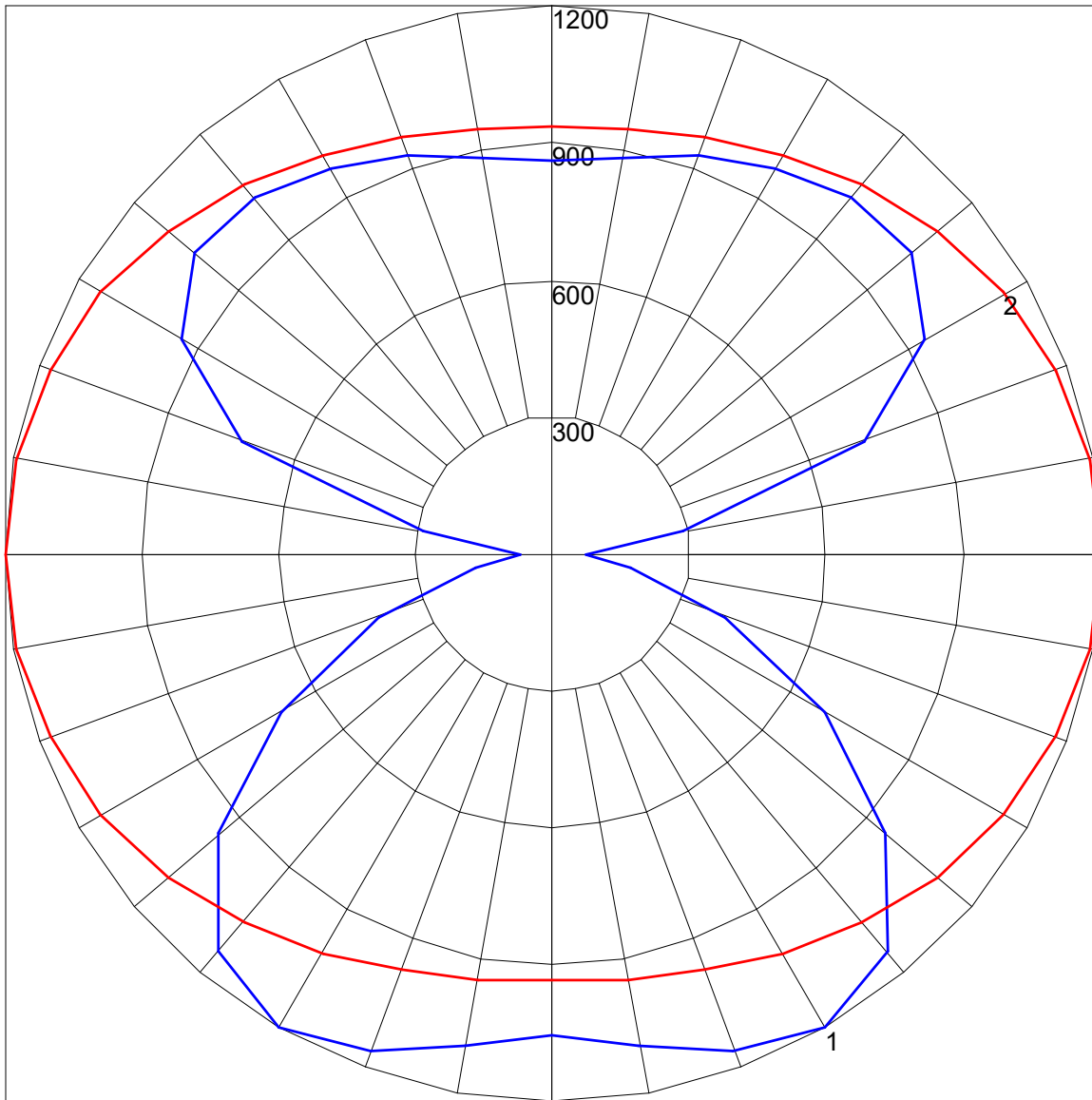
Reflectances

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	12.0	12.8	12.9	13.8	15.1	10.5	11.4	11.4	12.3	13.6
	3H	13.6	14.4	14.6	15.4	16.7	12.3	13.1	13.2	14.0	15.3
	4H	14.2	15.0	15.2	16.0	17.3	13.0	13.7	14.0	14.7	16.0
	6H	14.6	15.3	15.6	16.3	17.7	13.5	14.2	14.5	15.2	16.6
	8H	14.8	15.5	15.8	16.5	17.8	13.8	14.5	14.8	15.5	16.8
	12H	15.0	15.7	16.1	16.7	18.0	14.1	14.7	15.1	15.7	17.1
4H	2H	12.4	13.2	13.4	14.2	15.5	11.3	12.0	12.3	13.0	14.3
	3H	14.3	14.9	15.3	15.9	17.3	13.3	13.9	14.3	14.9	16.2
	4H	15.1	15.6	16.1	16.7	18.0	14.1	14.7	15.1	15.7	17.1
	6H	15.7	16.2	16.7	17.2	18.5	14.8	15.3	15.8	16.3	17.7
	8H	15.9	16.4	16.9	17.4	18.8	15.1	15.6	16.1	16.6	18.0
	12H	16.2	16.6	17.2	17.7	19.0	15.5	15.9	16.5	17.0	18.3
8H	4H	15.3	15.8	16.3	16.8	18.2	14.5	15.0	15.5	16.0	17.4
	6H	16.1	16.5	17.1	17.5	18.9	15.4	15.7	16.4	16.8	18.2
	8H	16.4	16.8	17.5	17.8	19.2	15.8	16.2	16.9	17.2	18.6
	12H	16.9	17.2	17.9	18.2	19.7	16.3	16.6	17.4	17.7	19.1
12H	4H	15.3	15.7	16.4	16.8	18.2	14.5	14.9	15.6	16.0	17.4
	6H	16.1	16.5	17.2	17.5	18.9	15.4	15.8	16.5	16.9	18.3
	8H	16.6	16.9	17.6	17.9	19.4	16.0	16.3	17.0	17.3	18.8

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 1200.299 Located At Horizontal Angle = 0, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)