



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-3070-FL-VHO-30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 30 70\_Scaled  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-8-LED-3070-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	12140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	144
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.60
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.56
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	5810	5137	4155
55	5810	5172	4025
65	5515	5025	3767
75	5135	4780	3401
85	6031	5761	4239

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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>	2373.880	2373.880	2373.880	2373.880	2373.880	2373.880	2373.880	2373.880	2373.880	2373.880
<b>10</b>	2418.148	2418.148	2404.315	2390.481	2379.414	2360.046	2348.979	2340.679	2332.379	2332.379
<b>20</b>	2517.752	2506.685	2476.250	2437.516	2390.481	2343.446	2299.178	2260.443	2235.542	2232.775
<b>30</b>	2573.087	2553.720	2514.985	2448.583	2371.113	2282.577	2196.808	2124.872	2066.770	2050.169
<b>40</b>	2462.416	2448.583	2398.781	2329.612	2232.775	2124.872	2003.134	1903.531	1834.362	1801.161
<b>50</b>	2122.105	2108.271	2075.070	2016.968	1931.199	1817.761	1707.091	1601.954	1516.185	1477.450
<b>60</b>	1596.421	1590.887	1571.520	1532.785	1477.450	1394.447	1305.911	1214.608	1139.905	1098.404
<b>70</b>	1004.334	1007.101	998.800	990.500	957.299	910.264	835.562	782.993	730.425	677.856
<b>80</b>	478.649	484.183	484.183	475.883	459.282	434.381	403.947	367.979	334.778	304.344
<b>90</b>	107.904	110.670	110.670	113.437	113.437	113.437	110.670	107.904	107.904	107.904
<b>100</b>	318.177	323.711	343.078	348.612	323.711	271.142	240.708	215.807	193.673	182.606
<b>110</b>	614.221	647.422	603.154	592.087	581.020	536.751	500.784	437.148	365.212	351.379
<b>120</b>	860.462	816.194	777.460	741.492	716.591	661.256	608.687	550.585	495.250	478.649
<b>130</b>	962.833	702.757	885.363	816.194	769.159	722.124	691.690	636.355	597.620	583.786
<b>140</b>	968.366	758.092	882.596	835.562	749.792	807.894	755.326	705.524	680.623	675.089
<b>150</b>	937.932	888.130	708.291	874.296	890.897	771.926	733.191	738.725	741.492	744.258
<b>160</b>	893.664	918.564	794.060	722.124	758.092	816.194	832.795	821.728	802.360	794.060
<b>170</b>	841.095	865.996	857.696	821.728	777.460	747.025	733.191	727.658	727.658	730.425
<b>180</b>	849.395	849.395	849.395	849.395	849.395	849.395	849.395	849.395	849.395	849.395

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	898.56	N.A.	7.40
0-30	1983.62	N.A.	16.30
0-40	3389.34	N.A.	27.90
0-60	6390.3	N.A.	52.60
0-80	8226.71	N.A.	67.80
0-90	8519.61	N.A.	70.20
10-90	8293.09	N.A.	68.30
20-40	2490.77	N.A.	20.50
20-50	4038.88	N.A.	33.30
40-70	4138.56	N.A.	34.10
60-80	1836.41	N.A.	15.10
70-80	698.82	N.A.	5.80
80-90	292.90	N.A.	2.40
90-110	639.09	N.A.	5.30
90-120	1233.75	N.A.	10.20
90-130	1863.34	N.A.	15.30
90-150	2943.18	N.A.	24.20
90-180	3619.93	N.A.	29.80
110-180	2980.84	N.A.	24.60
0-180	12139.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	226.52
10-20	672.04
20-30	1085.05
30-40	1405.72
40-50	1548.1
50-60	1452.86
60-70	1137.59
70-80	698.82
80-90	292.90
90-100	212.57
100-110	426.53
110-120	594.66
120-130	629.59
130-140	584.78
140-150	495.06
150-160	372.81
160-170	226.05
170-180	77.90

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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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70
1	101	96	92	88	96	91	87	84	82	79	76	73	70	68	65	63	61	57
2	92	84	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	70	57	48	42	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	35	44	37	32	39	34	29	35	30	27	24
7	59	46	37	31	56	44	36	30	39	33	28	35	30	26	32	27	24	21
8	55	42	33	28	52	40	32	27	36	29	25	32	27	23	29	24	21	19
9	51	38	30	24	48	36	29	24	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

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**UGR TABLE - CORRECTED**

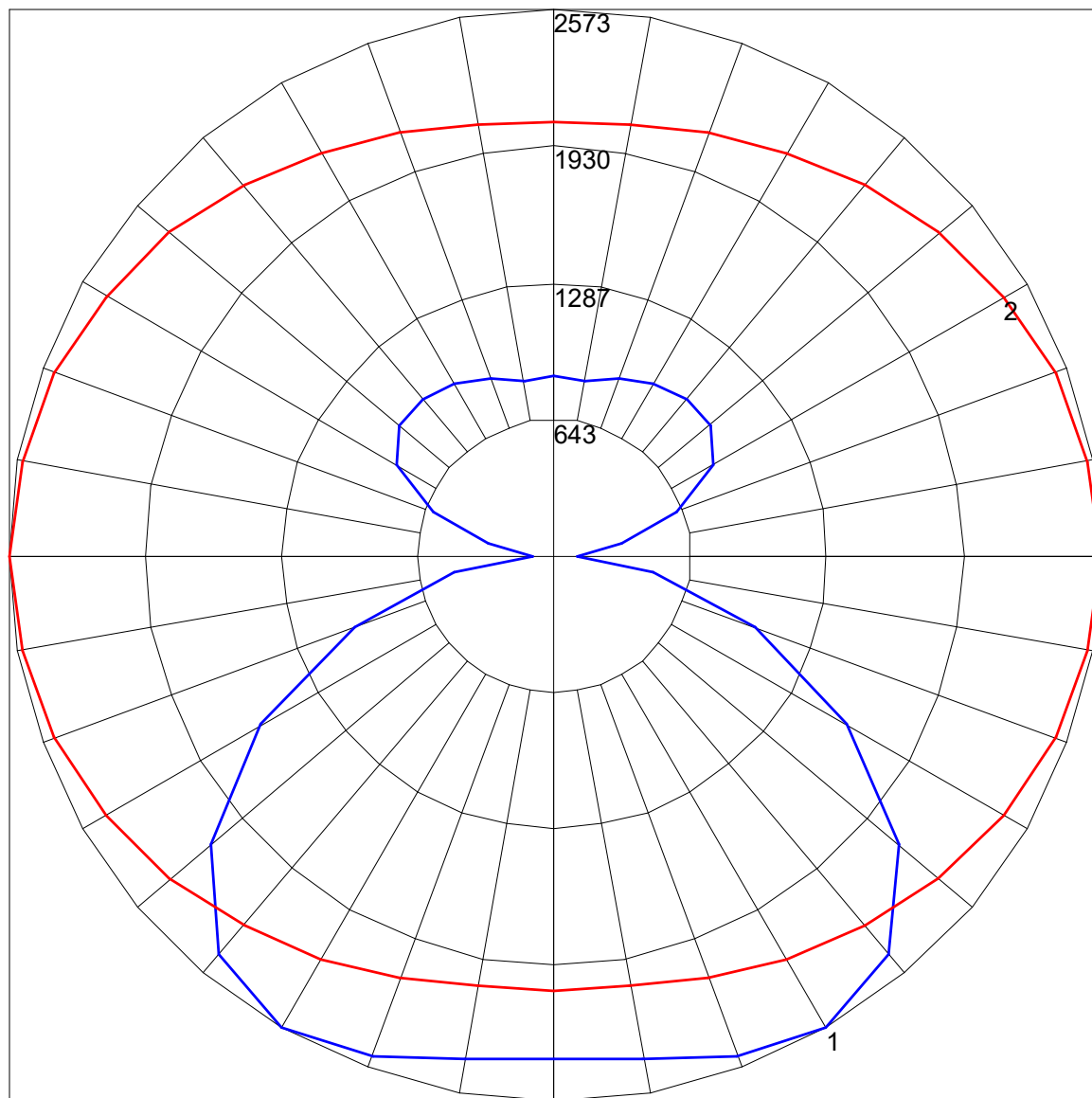
Reflectances

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	16.7	17.8	17.5	18.6	19.6	14.9	16.0	15.6	16.8	17.7
	3H	18.6	19.6	19.4	20.4	21.4	16.6	17.6	17.4	18.4	19.4
	4H	19.3	20.3	20.1	21.1	22.1	17.3	18.2	18.0	19.0	20.0
	6H	19.9	20.8	20.7	21.6	22.6	17.7	18.6	18.5	19.5	20.5
	8H	20.2	21.0	21.0	21.9	22.9	18.0	18.8	18.8	19.6	20.6
	12H	20.4	21.2	21.2	22.0	23.1	18.2	19.0	19.0	19.8	20.8
4H	2H	17.2	18.2	18.0	19.0	20.0	15.8	16.7	16.6	17.5	18.5
	3H	19.3	20.2	20.1	21.0	22.0	17.7	18.5	18.5	19.4	20.4
	4H	20.2	21.0	21.1	21.8	22.9	18.5	19.3	19.3	20.1	21.1
	6H	21.0	21.6	21.8	22.5	23.5	19.1	19.8	20.0	20.7	21.7
	8H	21.3	21.9	22.2	22.8	23.8	19.4	20.0	20.3	20.9	21.9
	12H	21.6	22.2	22.5	23.0	24.1	19.7	20.2	20.5	21.1	22.2
8H	4H	20.5	21.1	21.4	22.0	23.0	19.0	19.6	19.9	20.5	21.6
	6H	21.4	21.9	22.3	22.8	23.9	19.8	20.3	20.7	21.2	22.3
	8H	21.9	22.3	22.7	23.2	24.3	20.2	20.7	21.1	21.6	22.6
	12H	22.3	22.7	23.2	23.6	24.7	20.6	21.0	21.5	21.9	23.0
12H	4H	20.5	21.1	21.4	21.9	23.0	19.1	19.7	20.0	20.5	21.6
	6H	21.5	22.0	22.4	22.8	23.9	20.0	20.4	20.9	21.3	22.4
	8H	22.0	22.4	22.9	23.3	24.4	20.5	20.8	21.3	21.7	22.9

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 2573.087 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.)