



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-3070-FL-VHO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 VHO NW 30 70  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-03-2017  
[LUMCAT] CURV-8-LED-3070-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	12944
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	143.8
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	6195	5477	4430
55	6195	5515	4291
65	5880	5358	4016
75	5475	5097	3626
85	6430	6142	4520

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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>	2531.10	2531.10	2531.10	2531.10	2531.10	2531.10	2531.10	2531.10	2531.10	2531.10
<b>10</b>	2578.30	2578.30	2563.55	2548.80	2537.00	2516.35	2504.55	2495.70	2486.85	2486.85
<b>20</b>	2684.50	2672.70	2640.25	2598.95	2548.80	2498.65	2451.45	2410.15	2383.60	2380.65
<b>30</b>	2743.50	2722.85	2681.55	2610.75	2528.15	2433.75	2342.30	2265.60	2203.65	2185.95
<b>40</b>	2625.50	2610.75	2557.65	2483.90	2380.65	2265.60	2135.80	2029.60	1955.85	1920.45
<b>50</b>	2262.65	2247.90	2212.50	2150.55	2059.10	1938.15	1820.15	1708.05	1616.60	1575.30
<b>60</b>	1702.15	1696.25	1675.60	1634.30	1575.30	1486.80	1392.40	1295.05	1215.40	1171.15
<b>70</b>	1070.85	1073.80	1064.95	1056.10	1020.70	970.55	890.90	834.85	778.80	722.75
<b>80</b>	510.35	516.25	516.25	507.40	489.70	463.15	430.70	392.35	356.95	324.50
<b>90</b>	115.05	118.00	118.00	120.95	120.95	120.95	118.00	115.05	115.05	115.05
<b>100</b>	339.25	345.15	365.80	371.70	345.15	289.10	256.65	230.10	206.50	194.70
<b>110</b>	654.90	690.30	643.10	631.30	619.50	572.30	533.95	466.10	389.40	374.65
<b>120</b>	917.45	870.25	828.95	790.60	764.05	705.05	649.00	587.05	528.05	510.35
<b>130</b>	1026.60	749.30	944.00	870.25	820.10	769.95	737.50	678.50	637.20	622.45
<b>140</b>	1032.50	808.30	941.05	890.90	799.45	861.40	805.35	752.25	725.70	719.80
<b>150</b>	1000.05	946.95	755.20	932.20	949.90	823.05	781.75	787.65	790.60	793.55
<b>160</b>	952.85	979.40	846.65	769.95	808.30	870.25	887.95	876.15	855.50	846.65
<b>170</b>	896.80	923.35	914.50	876.15	828.95	796.50	781.75	775.85	775.85	778.80
<b>180</b>	905.65	905.65	905.65	905.65	905.65	905.65	905.65	905.65	905.65	905.65

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	958.08	N.A.	7.40
0-30	2114.99	N.A.	16.30
0-40	3613.81	N.A.	27.90
0-60	6813.53	N.A.	52.60
0-80	8771.56	N.A.	67.80
0-90	9083.86	N.A.	70.20
10-90	8842.34	N.A.	68.30
20-40	2655.73	N.A.	20.50
20-50	4306.37	N.A.	33.30
40-70	4412.65	N.A.	34.10
60-80	1958.03	N.A.	15.10
70-80	745.10	N.A.	5.80
80-90	312.30	N.A.	2.40
90-110	681.42	N.A.	5.30
90-120	1315.46	N.A.	10.20
90-130	1986.75	N.A.	15.30
90-150	3138.11	N.A.	24.20
90-180	3859.68	N.A.	29.80
110-180	3178.26	N.A.	24.60
0-180	12943.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	241.52
10-20	716.55
20-30	1156.92
30-40	1498.82
40-50	1650.63
50-60	1549.08
60-70	1212.93
70-80	745.10
80-90	312.30
90-100	226.65
100-110	454.78
110-120	634.04
120-130	671.29
130-140	623.51
140-150	527.85
150-160	397.50
160-170	241.02
170-180	83.05

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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

X=2H	Y=2H	16.9	18.0	17.7	18.8	19.8	UGR Viewed Endwise			
	3H	18.8	19.8	19.6	20.6	21.6	15.1	16.2	15.8	17.0
	4H	19.5	20.5	20.3	21.3	22.3	16.8	17.8	17.6	18.6
	6H	20.1	21.0	20.9	21.8	22.8	17.5	18.4	18.2	19.2
	8H	20.4	21.2	21.2	22.1	23.1	18.2	18.8	18.7	19.7
	12H	20.6	21.4	21.4	22.2	23.3	17.9	19.0	19.0	19.8
							18.2	19.0	19.0	19.8
							18.4	19.2	19.2	20.0

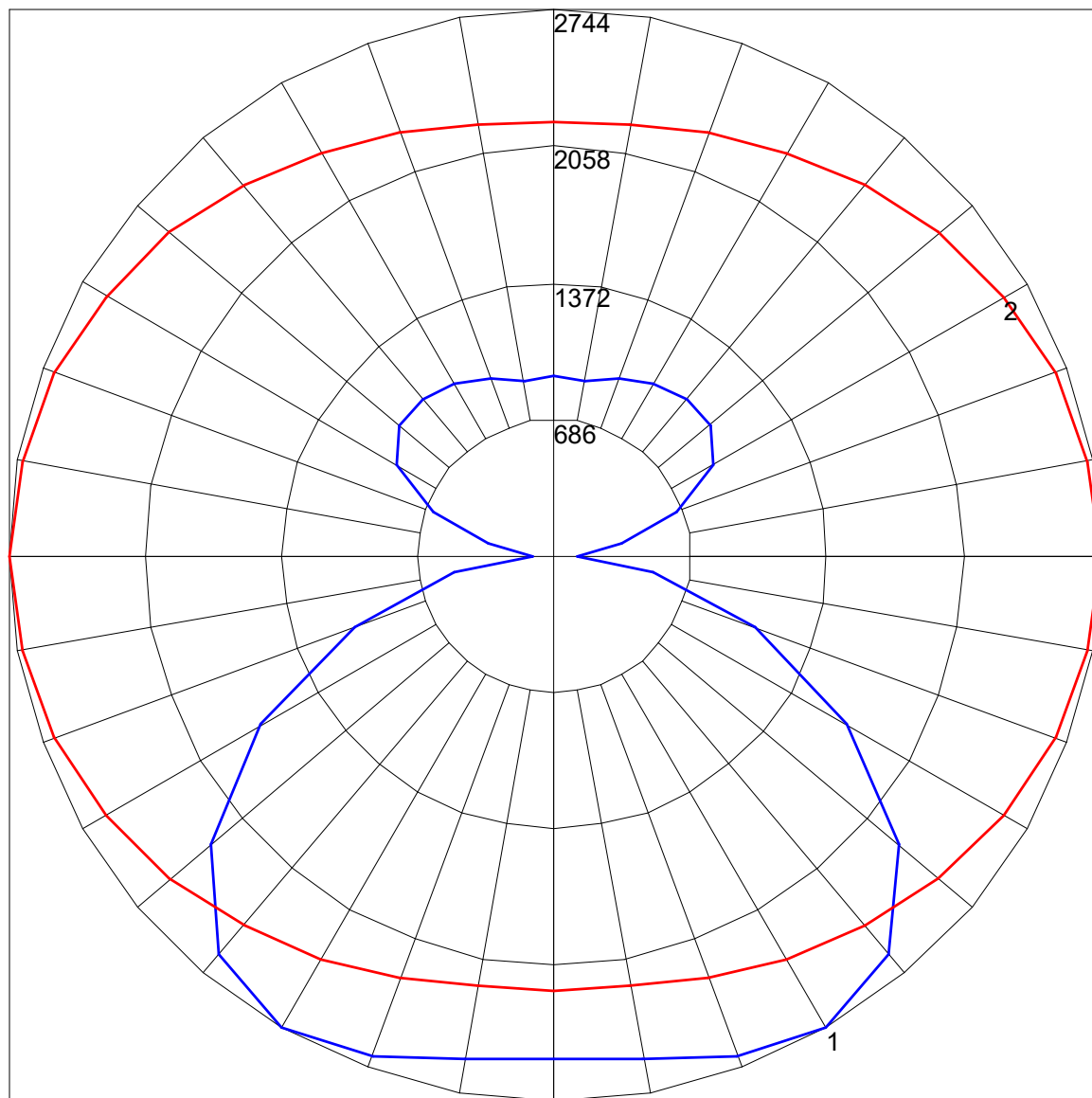
4H	2H	17.4	18.4	18.2	19.2	20.2	16.0	16.9	16.8	17.7
	3H	19.5	20.3	20.3	21.2	22.2	17.9	18.7	18.7	19.6
	4H	20.4	21.2	21.3	22.0	23.1	18.7	19.5	19.5	20.3
	6H	21.2	21.8	22.0	22.7	23.7	19.3	20.0	20.2	20.9
	8H	21.5	22.1	22.4	23.0	24.0	19.6	20.2	20.5	21.1
	12H	21.8	22.4	22.7	23.2	24.3	19.9	20.4	20.7	21.3

8H	4H	20.7	21.3	21.6	22.2	23.2	19.2	19.8	20.1	20.7
	6H	21.6	22.1	22.5	23.0	24.1	20.0	20.5	20.9	21.4
	8H	22.1	22.5	22.9	23.4	24.5	20.4	20.9	21.3	21.8
	12H	22.5	22.9	23.4	23.8	24.9	20.8	21.2	21.7	22.1

12H	4H	20.7	21.3	21.6	22.1	23.2	19.3	19.9	20.2	20.7
	6H	21.7	22.2	22.6	23.0	24.1	20.2	20.6	21.1	21.5
	8H	22.2	22.6	23.1	23.5	24.6	20.7	21.0	21.5	21.9

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 2743.5 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.)