



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-LED-2080-FL-HO-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] L450 HO NW 20 80  
[TESTLAB] Dekko  
[ISSUE DATE] 6/29/2017  
[TEST DATE] 04-05-2017  
[LUMCAT] CURV-8-LED-2080-FL-HO-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	7828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	97
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.52
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.52
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	4144	3813	3255
55	3915	3695	3140
65	3452	3378	2939
75	2812	2908	2625
85	3023	3331	2961

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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>	1872	1872	1872	1872	1872	1872	1872	1872	1872	1872
<b>10</b>	1914	1908	1898	1888	1874	1860	1848	1840	1832	1830
<b>20</b>	1966	1956	1938	1910	1878	1840	1806	1776	1758	1752
<b>30</b>	1964	1952	1926	1880	1830	1770	1712	1664	1628	1614
<b>40</b>	1802	1792	1770	1728	1676	1610	1544	1478	1434	1412
<b>50</b>	1468	1466	1456	1432	1394	1338	1276	1218	1174	1156
<b>60</b>	1038	1042	1040	1034	1016	982	942	900	868	854
<b>70</b>	590	596	600	602	600	588	572	558	540	532
<b>80</b>	222	230	236	242	246	246	242	236	230	226
<b>90</b>	72	74	78	78	78	78	74	74	70	62
<b>100</b>	166	168	180	192	186	178	162	142	110	96
<b>110</b>	286	286	276	276	272	264	238	198	170	158
<b>120</b>	340	344	338	324	302	282	250	228	216	212
<b>130</b>	356	364	360	342	324	308	290	274	262	260
<b>140</b>	352	368	362	356	346	330	322	312	304	300
<b>150</b>	350	362	362	358	358	352	346	336	332	332
<b>160</b>	346	358	362	362	360	358	358	356	352	350
<b>170</b>	340	352	356	358	360	358	360	360	360	360
<b>180</b>	352	352	352	352	352	352	352	352	352	352

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	706.75	N.A.	9.00
0-30	1552.05	N.A.	19.80
0-40	2626.62	N.A.	33.60
0-60	4814.11	N.A.	61.50
0-80	6017.35	N.A.	76.90
0-90	6187.25	N.A.	79.00
10-90	6008.7	N.A.	76.80
20-40	1919.86	N.A.	24.50
20-50	3068.84	N.A.	39.20
40-70	2958.81	N.A.	37.80
60-80	1203.24	N.A.	15.40
70-80	431.92	N.A.	5.50
80-90	169.90	N.A.	2.20
90-110	343.08	N.A.	4.40
90-120	605.69	N.A.	7.70
90-130	874.43	N.A.	11.20
90-150	1341.91	N.A.	17.10
90-180	1640.56	N.A.	21.00
110-180	1297.47	N.A.	16.60
0-180	7827.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	178.54
10-20	528.21
20-30	845.29
30-40	1074.57
40-50	1148.98
50-60	1038.51
60-70	771.32
70-80	431.92
80-90	169.90
90-100	128.50
100-110	214.58
110-120	262.60
120-130	268.75
130-140	252.04
140-150	215.44
150-160	163.57
160-170	101.23
170-180	33.84

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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	104	99	95	91	99	95	91	87	87	84	81	79	77	75	72	71	69	65
2	94	86	79	74	90	82	76	71	75	70	66	69	65	62	63	60	57	54
3	86	75	67	61	81	72	65	59	66	60	55	61	56	52	56	52	48	45
4	78	66	58	51	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	59	50	44	68	57	49	43	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	43	37	33	40	35	31	29
7	61	48	39	33	58	46	38	32	43	36	31	39	33	29	36	31	27	25
8	57	43	35	29	54	42	34	29	39	32	27	36	30	26	33	28	24	22
9	53	40	32	26	50	38	31	26	36	29	24	33	27	23	31	26	22	20
10	49	36	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

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**UGR TABLE - CORRECTED**

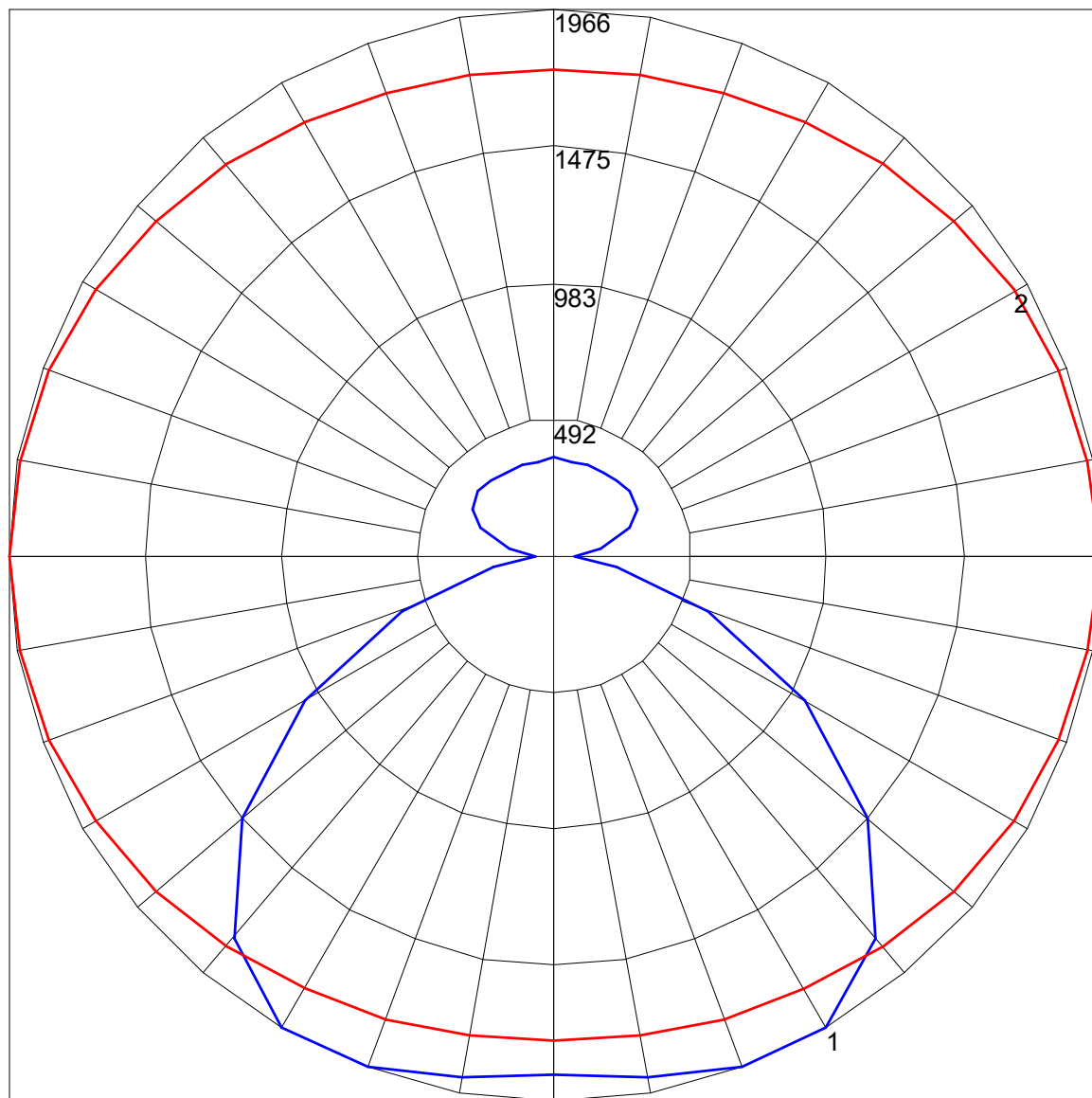
Reflectances

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	15.7	16.9	16.3	17.6	18.4	14.6	15.8	15.2	16.5	17.3
	3H	17.3	18.4	17.9	19.1	19.9	16.3	17.4	17.0	18.1	18.9
	4H	17.8	18.9	18.5	19.6	20.4	16.9	18.0	17.6	18.7	19.5
	6H	18.2	19.2	18.9	19.9	20.7	17.4	18.4	18.1	19.1	19.9
	8H	18.3	19.3	19.1	20.0	20.9	17.6	18.5	18.3	19.2	20.1
	12H	18.5	19.4	19.2	20.1	21.0	17.8	18.7	18.5	19.4	20.3
4H	2H	16.2	17.2	16.9	17.9	18.8	15.3	16.4	16.0	17.1	17.9
	3H	18.0	18.9	18.7	19.6	20.5	17.2	18.1	17.9	18.8	19.7
	4H	18.7	19.5	19.4	20.2	21.1	18.0	18.8	18.7	19.5	20.4
	6H	19.2	19.9	19.9	20.7	21.6	18.6	19.3	19.3	20.1	20.9
	8H	19.4	20.1	20.1	20.8	21.7	18.8	19.5	19.6	20.2	21.1
	12H	19.6	20.2	20.4	21.0	21.9	19.1	19.7	19.9	20.5	21.4
8H	4H	19.0	19.6	19.7	20.4	21.3	18.3	19.0	19.1	19.8	20.7
	6H	19.6	20.1	20.4	20.9	21.8	19.1	19.6	19.8	20.4	21.3
	8H	19.9	20.4	20.7	21.2	22.1	19.4	19.9	20.2	20.7	21.6
	12H	20.2	20.7	21.0	21.4	22.4	19.8	20.2	20.6	21.0	22.0
12H	4H	19.0	19.6	19.7	20.3	21.2	18.4	19.0	19.1	19.7	20.6
	6H	19.7	20.1	20.4	20.9	21.9	19.1	19.6	19.9	20.4	21.4
	8H	20.0	20.4	20.8	21.2	22.2	19.6	20.0	20.3	20.8	21.8

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1966 Located At Horizontal Angle = 0, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)