



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L445 HO NW 20 80  
 [TESTLAB] Dekko  
 [TESTDATE] 04-10-2017  
 [ISSUE DATE] 9/2/2020  
 [MANUFAC] LSI INDUSTRIES, INC.  
 [LUMCAT] CURV-8-LED-2080-FB-HO-40  
 [OTHER] TEST PROCEDURE: IESNA LM-79-08  
 [ ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
 [OTHER] SCALED FROM ORIGINAL TEST DATA  
 [ SEARCH\_SOURCETYPE] LED  
 [ SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4672
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	96.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
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	2431	2177	2119
55	1996	1550	1335
65	1358	818	601
75	714	428	386
85	834	912	901

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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>	1678.266	1678.266	1678.266	1678.266	1678.266	1678.266	1678.266	1678.266	1678.266	1678.266
<b>10</b>	1659.434	1655.728	1652.354	1650.446	1648.892	1643.140	1639.694	1636.190	1634.854	1634.178
<b>20</b>	1552.778	1551.338	1548.962	1541.820	1532.290	1520.212	1511.220	1501.020	1496.006	1494.932
<b>30</b>	1368.858	1366.876	1354.664	1331.010	1317.770	1304.866	1305.156	1300.646	1297.352	1297.434
<b>40</b>	1115.536	1107.158	1078.350	1050.578	1035.724	1029.650	1030.258	1036.000	1034.282	1033.222
<b>50</b>	802.774	790.302	753.074	720.758	694.026	675.496	657.064	646.036	641.732	638.890
<b>60</b>	474.604	456.552	408.278	369.710	329.422	285.322	247.138	225.404	219.170	215.814
<b>70</b>	165.740	155.670	132.722	101.756	81.710	75.112	70.806	68.764	67.682	67.706
<b>80</b>	40.534	42.502	43.000	44.348	45.174	45.330	45.158	44.356	43.974	43.674
<b>90</b>	40.604	42.254	43.242	43.676	43.586	43.250	43.152	43.042	43.614	43.996
<b>100</b>	112.526	97.224	86.116	84.756	84.810	86.542	83.402	80.030	75.716	75.144
<b>110</b>	211.772	199.694	172.500	147.926	142.798	129.982	121.688	114.032	109.866	108.110
<b>120</b>	265.842	262.188	238.840	216.886	187.570	171.784	162.978	159.024	150.836	149.532
<b>130</b>	292.580	293.536	275.332	259.312	244.130	233.384	221.186	206.566	192.016	192.416
<b>140</b>	307.578	311.098	307.270	293.142	281.462	273.688	266.858	247.346	243.676	244.716
<b>150</b>	320.116	322.656	322.148	321.326	307.036	296.254	277.792	272.272	272.262	273.210
<b>160</b>	309.956	313.850	312.186	307.612	301.814	297.658	295.376	295.548	295.630	296.084
<b>170</b>	297.190	299.270	300.562	303.062	303.994	305.158	306.662	307.256	307.732	307.492
<b>180</b>	304.536	304.536	304.536	304.536	304.536	304.536	304.536	304.536	304.536	304.536

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	608.00	N.A.	13.00
0-30	1267.28	N.A.	27.10
0-40	2013.71	N.A.	43.10
0-60	3150.29	N.A.	67.40
0-80	3431.94	N.A.	73.50
0-90	3479.46	N.A.	74.50
10-90	3320.83	N.A.	71.10
20-40	1405.71	N.A.	30.10
20-50	2084.46	N.A.	44.60
40-70	1343.76	N.A.	28.80
60-80	281.65	N.A.	6.00
70-80	74.46	N.A.	1.60
80-90	47.53	N.A.	1.00
90-110	192.06	N.A.	4.10
90-120	360.59	N.A.	7.70
90-130	556.26	N.A.	11.90
90-150	938.23	N.A.	20.10
90-180	1192.38	N.A.	25.50
110-180	1000.33	N.A.	21.40
0-180	4671.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	158.63
10-20	449.37
20-30	659.28
30-40	746.44
40-50	678.75
50-60	457.83
60-70	207.19
70-80	74.46
80-90	47.53
90-100	70.35
100-110	121.71
110-120	168.54
120-130	195.67
130-140	200.87
140-150	181.10
150-160	139.14
160-170	85.96
170-180	29.04

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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	104	100	97	94	99	96	93	90	87	85	82	79	77	75	71	70	69	65
2	96	89	84	79	91	85	80	76	78	74	70	71	68	65	64	62	60	57
3	89	80	73	67	84	76	70	65	70	65	61	64	60	57	58	55	53	50
4	82	71	64	58	78	68	62	56	63	57	53	58	53	50	53	49	46	44
5	76	64	56	51	72	62	55	49	57	51	46	52	48	44	48	44	41	38
6	70	58	50	45	67	56	49	43	52	46	41	48	43	39	44	40	37	34
7	65	53	45	40	62	51	44	39	47	41	37	44	39	35	40	36	33	31
8	61	48	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	28
9	57	45	37	32	54	43	36	31	40	34	30	37	32	28	35	30	27	25
10	53	41	34	29	51	40	33	29	37	31	27	35	30	26	32	28	25	23

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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	11.8	12.8	12.5	13.5	14.4	8.8	9.8	9.5	10.5	11.4
	3H	12.5	13.4	13.2	14.2	15.1	9.1	10.0	9.8	10.8	11.7
	4H	12.7	13.6	13.5	14.3	15.2	9.2	10.1	10.0	10.8	11.7
	6H	12.8	13.6	13.5	14.3	15.3	9.4	10.2	10.2	10.9	11.9
	8H	12.8	13.5	13.6	14.3	15.2	9.5	10.3	10.3	11.1	12.0
	12H	12.8	13.6	13.6	14.3	15.3	9.8	10.5	10.5	11.3	12.2

UGR Viewed Endwise

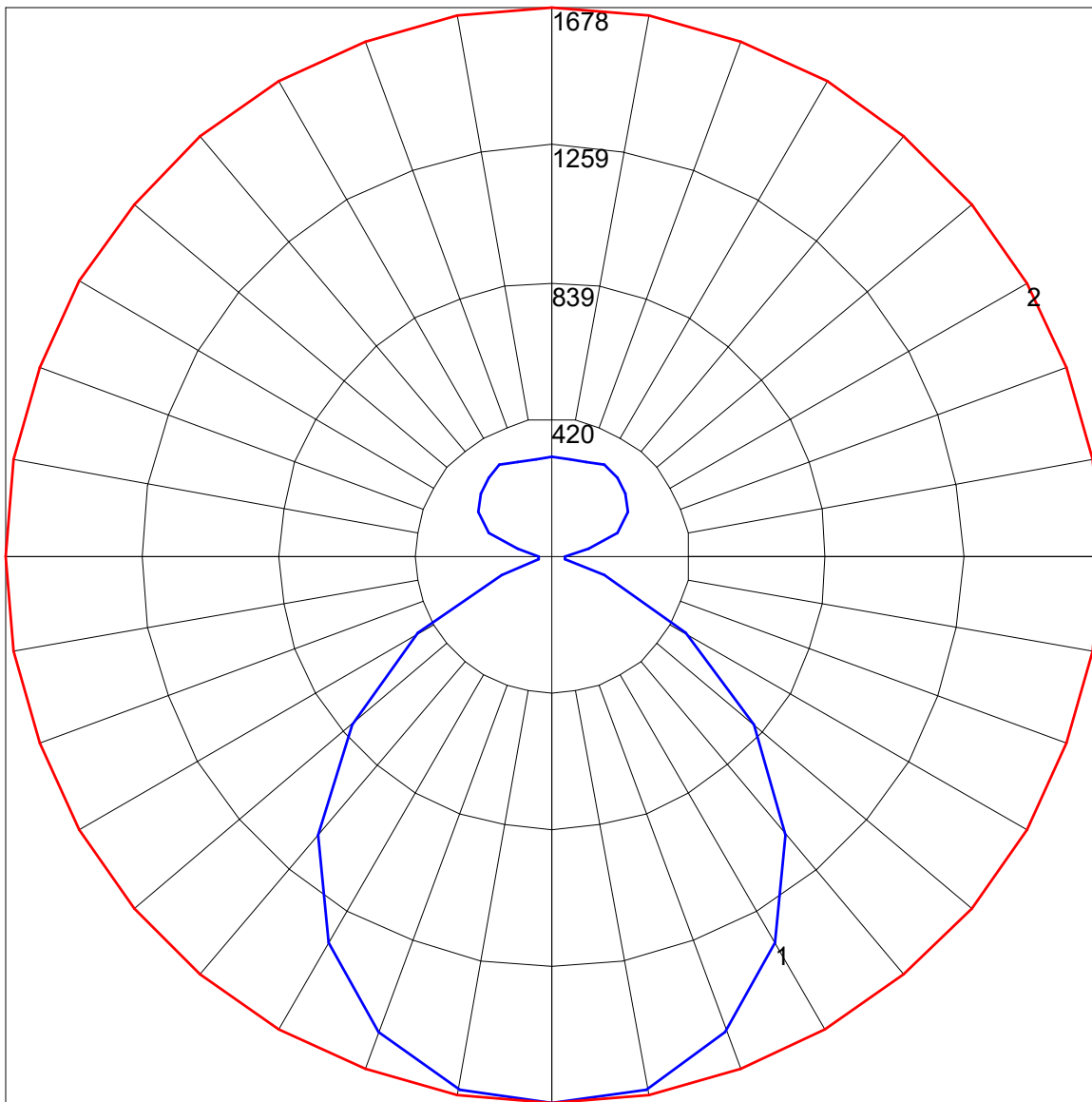
4H	2H	11.8	12.6	12.5	13.4	14.3	9.1	10.0	9.8	10.7	11.6
	3H	12.5	13.3	13.3	14.1	15.0	9.5	10.2	10.2	11.0	11.9
	4H	12.8	13.5	13.6	14.3	15.2	9.7	10.3	10.5	11.1	12.1
	6H	12.9	13.5	13.7	14.3	15.3	10.0	10.5	10.8	11.3	12.3
	8H	13.0	13.5	13.8	14.3	15.3	10.2	10.7	11.0	11.5	12.5
	12H	13.1	13.6	14.0	14.4	15.4	10.6	11.0	11.4	11.9	12.8

8H	4H	12.8	13.3	13.6	14.1	15.1	9.7	10.3	10.6	11.1	12.1
	6H	12.9	13.4	13.8	14.2	15.2	10.2	10.6	11.0	11.5	12.4
	8H	13.1	13.5	13.9	14.3	15.3	10.5	10.9	11.4	11.8	12.8
	12H	13.3	13.7	14.2	14.5	15.6	11.1	11.5	12.0	12.3	13.4

12H	4H	12.7	13.2	13.5	14.0	15.0	9.7	10.2	10.6	11.0	12.0
	6H	12.9	13.3	13.8	14.2	15.2	10.2	10.6	11.1	11.4	12.5
	8H	13.1	13.4	13.9	14.3	15.3	10.7	11.0	11.5	11.8	12.9

Maximum UGR = 15.6

POLAR GRAPH



Maximum Candela = 1678.266 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)