



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-4-LED-2080-FB-HO-35.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-4-LED-2080-FB-HO-35  
 [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	2259
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	47
Total Luminaire Watts	48.4
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)	4.00 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	2351	2105	2049
55	1930	1499	1291
65	1313	791	581
75	691	414	373
85	807	882	872

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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>	811.442	811.442	811.442	811.442	811.442	811.442	811.442	811.442	811.442	811.442
<b>10</b>	802.336	800.544	798.913	797.991	797.239	794.458	792.792	791.098	790.452	790.125
<b>20</b>	750.768	750.072	748.923	745.470	740.862	735.023	730.675	725.743	723.319	722.800
<b>30</b>	661.843	660.885	654.980	643.543	637.142	630.903	631.043	628.862	627.270	627.309
<b>40</b>	539.362	535.311	521.382	507.954	500.773	497.836	498.130	500.906	500.075	499.563
<b>50</b>	388.141	382.111	364.111	348.486	335.562	326.602	317.690	312.358	310.277	308.903
<b>60</b>	229.471	220.743	197.402	178.755	159.276	137.953	119.491	108.983	105.969	104.346
<b>70</b>	80.135	75.266	64.171	49.199	39.507	36.317	34.235	33.247	32.724	32.736
<b>80</b>	19.598	20.550	20.791	21.442	21.842	21.917	21.834	21.446	21.261	21.116
<b>90</b>	19.632	20.430	20.908	21.117	21.074	20.911	20.864	20.811	21.087	21.272
<b>100</b>	54.406	47.008	41.637	40.980	41.006	41.843	40.325	38.695	36.609	36.332
<b>110</b>	102.392	96.552	83.404	71.522	69.043	62.846	58.836	55.134	53.120	52.271
<b>120</b>	128.535	126.768	115.479	104.864	90.690	83.058	78.800	76.888	72.929	72.299
<b>130</b>	141.462	141.925	133.123	125.377	118.037	112.841	106.943	99.875	92.840	93.033
<b>140</b>	148.714	150.416	148.565	141.734	136.087	132.328	129.026	119.592	117.817	118.320
<b>150</b>	154.776	156.004	155.759	155.361	148.452	143.239	134.312	131.644	131.639	132.097
<b>160</b>	149.864	151.746	150.942	148.730	145.927	143.918	142.814	142.897	142.937	143.157
<b>170</b>	143.691	144.697	145.322	146.530	146.981	147.544	148.271	148.558	148.788	148.672
<b>180</b>	147.243	147.243	147.243	147.243	147.243	147.243	147.243	147.243	147.243	147.243

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	293.97	N.A.	13.00
0-30	612.73	N.A.	27.10
0-40	973.63	N.A.	43.10
0-60	1523.16	N.A.	67.40
0-80	1659.34	N.A.	73.50
0-90	1682.32	N.A.	74.50
10-90	1605.62	N.A.	71.10
20-40	679.66	N.A.	30.10
20-50	1007.84	N.A.	44.60
40-70	649.71	N.A.	28.80
60-80	136.18	N.A.	6.00
70-80	36.00	N.A.	1.60
80-90	22.98	N.A.	1.00
90-110	92.86	N.A.	4.10
90-120	174.35	N.A.	7.70
90-130	268.95	N.A.	11.90
90-150	453.63	N.A.	20.10
90-180	576.52	N.A.	25.50
110-180	483.66	N.A.	21.40
0-180	2258.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.70
10-20	217.27
20-30	318.76
30-40	360.90
40-50	328.17
50-60	221.36
60-70	100.18
70-80	36.00
80-90	22.98
90-100	34.01
100-110	58.85
110-120	81.49
120-130	94.61
130-140	97.12
140-150	87.56
150-160	67.28
160-170	41.56
170-180	14.04

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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**

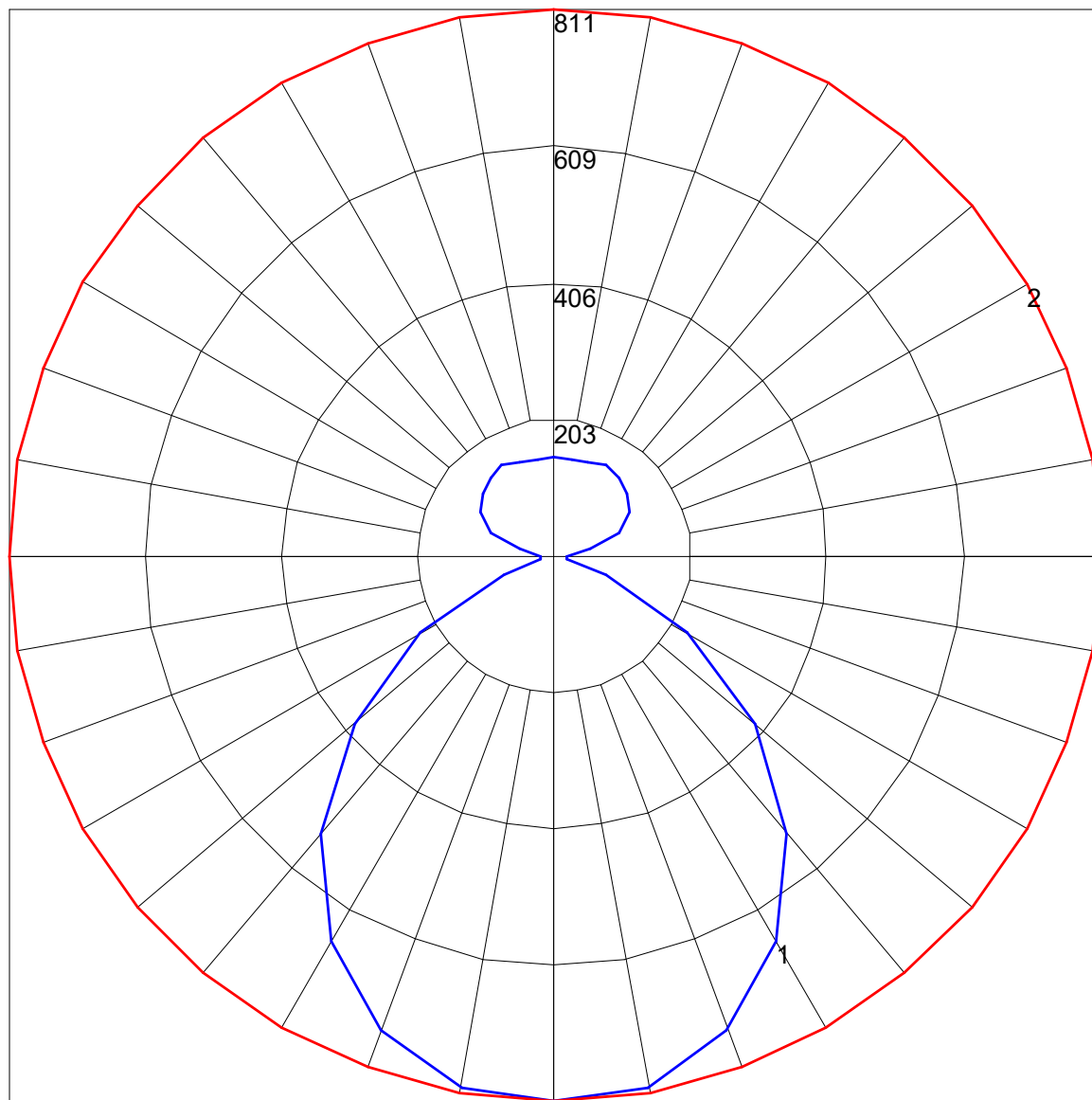
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.7	12.7	12.4	13.4	14.3	8.7	9.7	9.4	10.4	11.3
	3H	12.4	13.3	13.2	14.1	15.0	9.0	9.9	9.7	10.7	11.6
	4H	12.6	13.5	13.4	14.2	15.1	9.1	10.0	9.9	10.7	11.7
	6H	12.7	13.5	13.4	14.2	15.2	9.3	10.1	10.1	10.9	11.8
	8H	12.7	13.4	13.5	14.2	15.2	9.4	10.2	10.2	11.0	11.9
	12H	12.7	13.5	13.5	14.2	15.2	9.7	10.4	10.5	11.2	12.1
4H	2H	11.7	12.5	12.4	13.3	14.2	9.0	9.9	9.8	10.6	11.5
	3H	12.4	13.2	13.2	14.0	14.9	9.4	10.1	10.1	10.9	11.8
	4H	12.7	13.4	13.5	14.2	15.1	9.6	10.2	10.4	11.0	12.0
	6H	12.8	13.4	13.6	14.2	15.2	9.9	10.4	10.7	11.2	12.2
	8H	12.9	13.4	13.7	14.2	15.2	10.1	10.6	10.9	11.4	12.4
	12H	13.0	13.5	13.9	14.3	15.3	10.5	10.9	11.3	11.8	12.8
8H	4H	12.7	13.2	13.5	14.0	15.0	9.7	10.2	10.5	11.0	12.0
	6H	12.8	13.3	13.7	14.1	15.1	10.1	10.5	10.9	11.4	12.3
	8H	13.0	13.4	13.8	14.2	15.2	10.4	10.8	11.3	11.7	12.7
	12H	13.2	13.6	14.1	14.4	15.5	11.0	11.4	11.9	12.2	13.3
12H	4H	12.6	13.1	13.4	13.9	14.9	9.6	10.1	10.5	10.9	11.9
	6H	12.8	13.2	13.7	14.1	15.1	10.1	10.5	11.0	11.3	12.4
	8H	13.0	13.4	13.9	14.2	15.2	10.6	10.9	11.4	11.8	12.8

Maximum UGR = 15.5

POLAR GRAPH



Maximum Candela = 811.442 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.)