



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-2080-FB-SS-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L445 HO SS 20 80
[TESTLAB] Dekko
[TESTDATE] 04-10-2017
[ISSUE DATE] 9/2/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CURV-4-LED-2080-FB-SS-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	1946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
Total Luminaire Watts	40.6
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	2025	1813	1765
55	1662	1291	1112
65	1131	681	501
75	595	357	321
85	695	759	751

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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>
0	698.998	698.998	698.998	698.998	698.998	698.998	698.998	698.998	698.998	698.998
10	691.154	689.611	688.205	687.411	686.764	684.368	682.933	681.473	680.917	680.635
20	646.732	646.132	645.143	642.168	638.199	633.168	629.423	625.175	623.087	622.639
30	570.129	569.304	564.218	554.366	548.851	543.477	543.597	541.719	540.347	540.381
40	464.621	461.131	449.133	437.566	431.379	428.849	429.102	431.494	430.778	430.337
50	334.355	329.161	313.655	300.196	289.062	281.344	273.667	269.074	267.281	266.098
60	197.673	190.154	170.048	153.984	137.204	118.837	102.933	93.881	91.284	89.887
70	69.031	64.837	55.279	42.381	34.032	31.284	29.491	28.640	28.190	28.200
80	16.882	17.702	17.910	18.471	18.815	18.880	18.808	18.474	18.315	18.190
90	16.912	17.599	18.010	18.191	18.154	18.014	17.973	17.927	18.165	18.324
100	46.867	40.494	35.867	35.301	35.323	36.045	34.737	33.332	31.536	31.297
110	88.203	83.173	71.846	61.611	59.475	54.138	50.683	47.494	45.759	45.028
120	110.723	109.201	99.477	90.333	78.123	71.548	67.880	66.233	62.823	62.280
130	121.860	122.258	114.676	108.003	101.680	97.204	92.124	86.035	79.975	80.141
140	128.106	129.572	127.978	122.094	117.229	113.991	111.146	103.020	101.491	101.924
150	133.328	134.386	134.175	133.832	127.880	123.390	115.700	113.401	113.397	113.792
160	129.097	130.719	130.025	128.120	125.706	123.975	123.024	123.096	123.130	123.319
170	123.780	124.646	125.184	126.225	126.614	127.098	127.725	127.972	128.170	128.070
180	126.839	126.839	126.839	126.839	126.839	126.839	126.839	126.839	126.839	126.839

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	253.23	N.A.	13.00
0-30	527.82	N.A.	27.10
0-40	838.71	N.A.	43.10
0-60	1312.09	N.A.	67.40
0-80	1429.4	N.A.	73.50
0-90	1449.2	N.A.	74.50
10-90	1383.13	N.A.	71.10
20-40	585.48	N.A.	30.10
20-50	868.18	N.A.	44.60
40-70	559.68	N.A.	28.80
60-80	117.31	N.A.	6.00
70-80	31.01	N.A.	1.60
80-90	19.79	N.A.	1.00
90-110	79.99	N.A.	4.10
90-120	150.19	N.A.	7.70
90-130	231.68	N.A.	11.90
90-150	390.77	N.A.	20.10
90-180	496.63	N.A.	25.50
110-180	416.64	N.A.	21.40
0-180	1945.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.07
10-20	187.16
20-30	274.59
30-40	310.89
40-50	282.70
50-60	190.69
60-70	86.29
70-80	31.01
80-90	19.79
90-100	29.30
100-110	50.69
110-120	70.20
120-130	81.50
130-140	83.66
140-150	75.43
150-160	57.95
160-170	35.80
170-180	12.10

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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

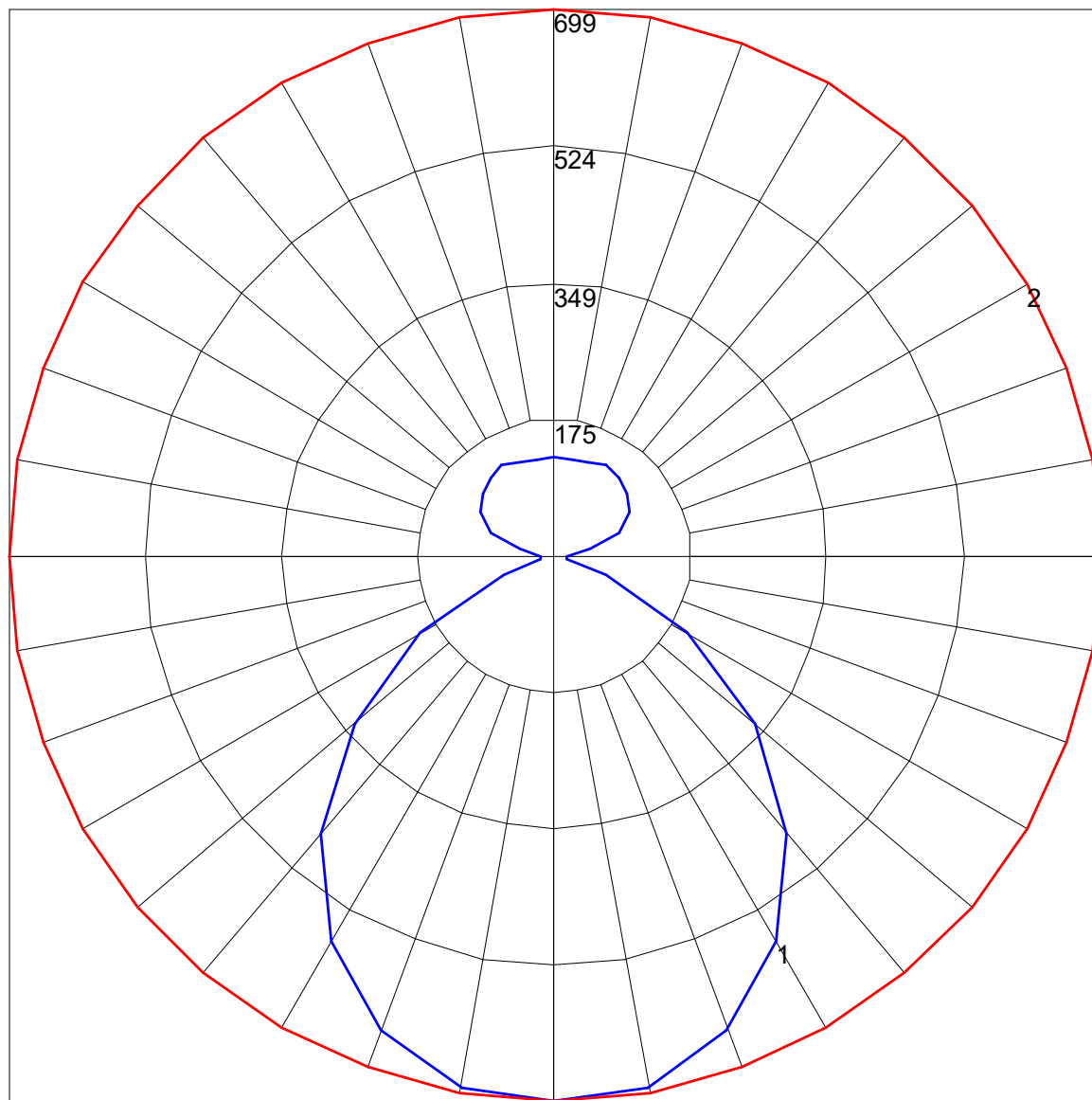
Reflectances

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	11.2	12.2	11.9	12.9	13.8	8.2	9.2	8.9	9.9	10.8
	3H	11.9	12.8	12.7	13.6	14.5	8.5	9.4	9.2	10.2	11.1
	4H	12.1	13.0	12.9	13.7	14.6	8.6	9.5	9.4	10.2	11.2
	6H	12.2	13.0	12.9	13.7	14.7	8.8	9.6	9.6	10.4	11.3
	8H	12.2	12.9	13.0	13.7	14.7	8.9	9.7	9.7	10.5	11.4
	12H	12.2	13.0	13.0	13.7	14.7	9.2	9.9	10.0	10.7	11.6
4H	2H	11.2	12.0	11.9	12.8	13.7	8.5	9.4	9.3	10.1	11.0
	3H	11.9	12.7	12.7	13.5	14.4	8.9	9.6	9.6	10.4	11.3
	4H	12.2	12.9	13.0	13.7	14.6	9.1	9.7	9.9	10.5	11.5
	6H	12.3	12.9	13.1	13.7	14.7	9.4	9.9	10.2	10.7	11.7
	8H	12.4	12.9	13.2	13.7	14.7	9.6	10.1	10.4	10.9	11.9
	12H	12.5	13.0	13.4	13.8	14.8	10.0	10.4	10.8	11.3	12.3
8H	4H	12.2	12.7	13.0	13.5	14.5	9.2	9.7	10.0	10.5	11.5
	6H	12.3	12.8	13.2	13.6	14.6	9.6	10.0	10.4	10.9	11.8
	8H	12.5	12.9	13.3	13.7	14.7	9.9	10.3	10.8	11.2	12.2
	12H	12.7	13.1	13.6	13.9	15.0	10.5	10.9	11.4	11.7	12.8
12H	4H	12.1	12.6	12.9	13.4	14.4	9.1	9.6	10.0	10.4	11.4
	6H	12.3	12.7	13.2	13.6	14.6	9.6	10.0	10.5	10.8	11.9
	8H	12.5	12.9	13.4	13.7	14.7	10.1	10.4	10.9	11.3	12.3

Maximum UGR = 15.0

POLAR GRAPH



Maximum Candela = 698.998 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.)