



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-2080-FB-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 HO SS 20 80
 [TESTLAB] Dekko
 [TESTDATE] 04-10-2017
 [ISSUEDATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-2080-FB-SS-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	1882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
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	1958	1753	1707
55	1608	1249	1076
65	1094	659	484
75	575	345	311
85	672	734	726

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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	675.931	675.931	675.931	675.931	675.931	675.931	675.931	675.931	675.931	675.931
10	668.346	666.854	665.495	664.726	664.100	661.784	660.396	658.985	658.446	658.174
20	625.390	624.810	623.853	620.976	617.138	612.274	608.652	604.544	602.525	602.092
30	551.315	550.517	545.598	536.072	530.739	525.542	525.659	523.842	522.516	522.549
40	449.288	445.914	434.311	423.126	417.144	414.697	414.942	417.255	416.563	416.136
50	323.322	318.298	303.305	290.289	279.523	272.060	264.636	260.195	258.461	257.316
60	191.149	183.879	164.436	148.903	132.677	114.915	99.536	90.783	88.272	86.920
70	66.753	62.697	53.455	40.983	32.909	30.252	28.518	27.695	27.259	27.269
80	16.325	17.118	17.318	17.861	18.194	18.257	18.188	17.865	17.711	17.590
90	16.353	17.018	17.416	17.591	17.555	17.419	17.380	17.335	17.566	17.720
100	45.320	39.158	34.684	34.136	34.158	34.855	33.591	32.233	30.495	30.265
110	85.292	80.428	69.475	59.578	57.513	52.351	49.011	45.927	44.249	43.542
120	107.069	105.598	96.194	87.352	75.545	69.187	65.640	64.048	60.750	60.225
130	117.838	118.223	110.891	104.439	98.325	93.997	89.084	83.196	77.335	77.497
140	123.879	125.296	123.755	118.065	113.360	110.229	107.479	99.620	98.142	98.561
150	128.928	129.951	129.747	129.416	123.660	119.318	111.882	109.659	109.655	110.037
160	124.836	126.405	125.735	123.892	121.557	119.883	118.964	119.034	119.067	119.249
170	119.695	120.533	121.053	122.060	122.435	122.904	123.510	123.749	123.941	123.844
180	122.654	122.654	122.654	122.654	122.654	122.654	122.654	122.654	122.654	122.654

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	244.88	N.A.	13.00
0-30	510.40	N.A.	27.10
0-40	811.03	N.A.	43.10
0-60	1268.8	N.A.	67.40
0-80	1382.23	N.A.	73.50
0-90	1401.37	N.A.	74.50
10-90	1337.48	N.A.	71.10
20-40	566.16	N.A.	30.10
20-50	839.53	N.A.	44.60
40-70	541.21	N.A.	28.80
60-80	113.44	N.A.	6.00
70-80	29.99	N.A.	1.60
80-90	19.14	N.A.	1.00
90-110	77.35	N.A.	4.10
90-120	145.23	N.A.	7.70
90-130	224.04	N.A.	11.90
90-150	377.88	N.A.	20.10
90-180	480.24	N.A.	25.50
110-180	402.89	N.A.	21.40
0-180	1881.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.89
10-20	180.99
20-30	265.53
30-40	300.63
40-50	273.37
50-60	184.39
60-70	83.45
70-80	29.99
80-90	19.14
90-100	28.33
100-110	49.02
110-120	67.88
120-130	78.81
130-140	80.90
140-150	72.94
150-160	56.04
160-170	34.62
170-180	11.70

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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

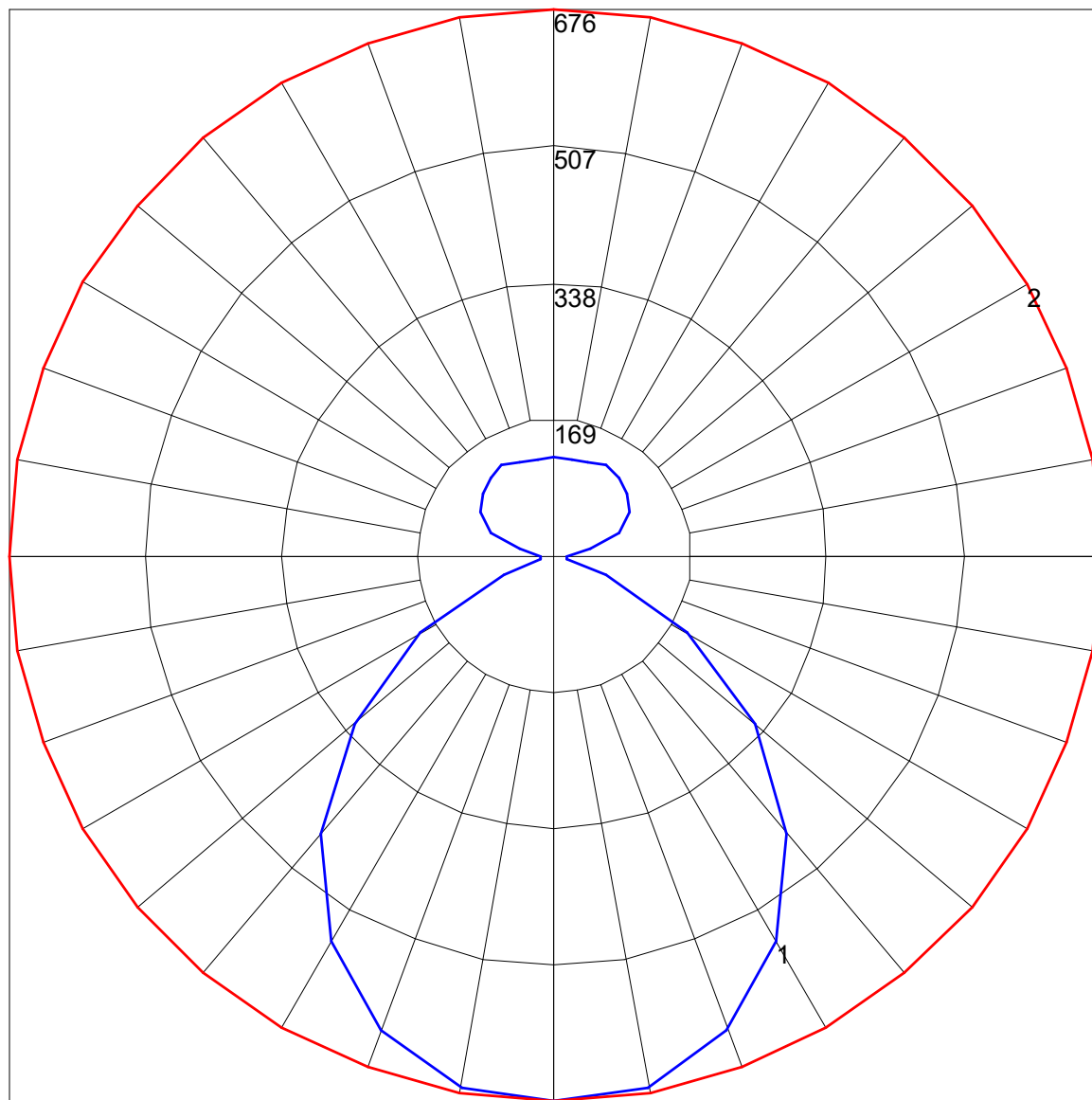
Reflectances

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	11.1	12.1	11.8	12.8	13.7	8.1	9.1	8.8	9.8	10.7
	3H	11.8	12.7	12.6	13.5	14.4	8.4	9.3	9.1	10.1	11.0
	4H	12.0	12.9	12.8	13.6	14.5	8.5	9.4	9.3	10.1	11.1
	6H	12.1	12.9	12.8	13.6	14.6	8.7	9.5	9.5	10.3	11.2
	8H	12.1	12.8	12.9	13.6	14.6	8.8	9.6	9.6	10.4	11.3
	12H	12.1	12.9	12.9	13.6	14.6	9.1	9.8	9.9	10.6	11.5
4H	2H	11.1	11.9	11.8	12.7	13.6	8.4	9.3	9.2	10.0	10.9
	3H	11.8	12.6	12.6	13.4	14.3	8.8	9.5	9.5	10.3	11.2
	4H	12.1	12.8	12.9	13.6	14.5	9.0	9.6	9.8	10.4	11.4
	6H	12.2	12.8	13.0	13.6	14.6	9.3	9.8	10.1	10.6	11.6
	8H	12.3	12.8	13.1	13.6	14.6	9.5	10.0	10.3	10.8	11.8
	12H	12.4	12.9	13.3	13.7	14.7	9.9	10.3	10.7	11.2	12.2
8H	4H	12.1	12.6	12.9	13.4	14.4	9.1	9.6	9.9	10.4	11.4
	6H	12.2	12.7	13.1	13.5	14.5	9.5	9.9	10.3	10.8	11.7
	8H	12.4	12.8	13.2	13.6	14.6	9.8	10.2	10.7	11.1	12.1
	12H	12.6	13.0	13.5	13.8	14.9	10.4	10.8	11.3	11.6	12.7
12H	4H	12.0	12.5	12.8	13.3	14.3	9.0	9.5	9.9	10.3	11.3
	6H	12.2	12.6	13.1	13.5	14.5	9.5	9.9	10.4	10.7	11.8
	8H	12.4	12.8	13.3	13.6	14.6	10.0	10.3	10.8	11.2	12.2

Maximum UGR = 14.9

POLAR GRAPH



Maximum Candela = 675.931 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.)