



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-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-4-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	2336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	48
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	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>
0	839.133	839.133	839.133	839.133	839.133	839.133	839.133	839.133	839.133	839.133
10	829.717	827.864	826.177	825.223	824.446	821.570	819.847	818.095	817.427	817.089
20	776.389	775.669	774.481	770.910	766.145	760.106	755.610	750.510	748.003	747.466
30	684.429	683.438	677.332	665.505	658.885	652.433	652.578	650.323	648.676	648.717
40	557.768	553.579	539.175	525.289	517.862	514.825	515.129	518.000	517.141	516.611
50	401.387	395.151	376.537	360.379	347.013	337.748	328.532	323.018	320.866	319.445
60	237.302	228.276	204.139	184.855	164.711	142.661	123.569	112.702	109.585	107.907
70	82.870	77.835	66.361	50.878	40.855	37.556	35.403	34.382	33.841	33.853
80	20.267	21.251	21.500	22.174	22.587	22.665	22.579	22.178	21.987	21.837
90	20.302	21.127	21.621	21.838	21.793	21.625	21.576	21.521	21.807	21.998
100	56.263	48.612	43.058	42.378	42.405	43.271	41.701	40.015	37.858	37.572
110	105.886	99.847	86.250	73.963	71.399	64.991	60.844	57.016	54.933	54.055
120	132.921	131.094	119.420	108.443	93.785	85.892	81.489	79.512	75.418	74.766
130	146.290	146.768	137.666	129.656	122.065	116.692	110.593	103.283	96.008	96.208
140	153.789	155.549	153.635	146.571	140.731	136.844	133.429	123.673	121.838	122.358
150	160.058	161.328	161.074	160.663	153.518	148.127	138.896	136.136	136.131	136.605
160	154.978	156.925	156.093	153.806	150.907	148.829	147.688	147.774	147.815	148.042
170	148.595	149.635	150.281	151.531	151.997	152.579	153.331	153.628	153.866	153.746
180	152.268	152.268	152.268	152.268	152.268	152.268	152.268	152.268	152.268	152.268

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	304.00	N.A.	13.00
0-30	633.64	N.A.	27.10
0-40	1006.86	N.A.	43.10
0-60	1575.14	N.A.	67.40
0-80	1715.97	N.A.	73.50
0-90	1739.73	N.A.	74.50
10-90	1660.42	N.A.	71.10
20-40	702.86	N.A.	30.10
20-50	1042.23	N.A.	44.60
40-70	671.88	N.A.	28.80
60-80	140.82	N.A.	6.00
70-80	37.23	N.A.	1.60
80-90	23.76	N.A.	1.00
90-110	96.03	N.A.	4.10
90-120	180.30	N.A.	7.70
90-130	278.13	N.A.	11.90
90-150	469.11	N.A.	20.10
90-180	596.19	N.A.	25.50
110-180	500.16	N.A.	21.40
0-180	2335.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.31
10-20	224.69
20-30	329.64
30-40	373.22
40-50	339.37
50-60	228.91
60-70	103.59
70-80	37.23
80-90	23.76
90-100	35.17
100-110	60.86
110-120	84.27
120-130	97.83
130-140	100.43
140-150	90.55
150-160	69.57
160-170	42.98
170-180	14.52

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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

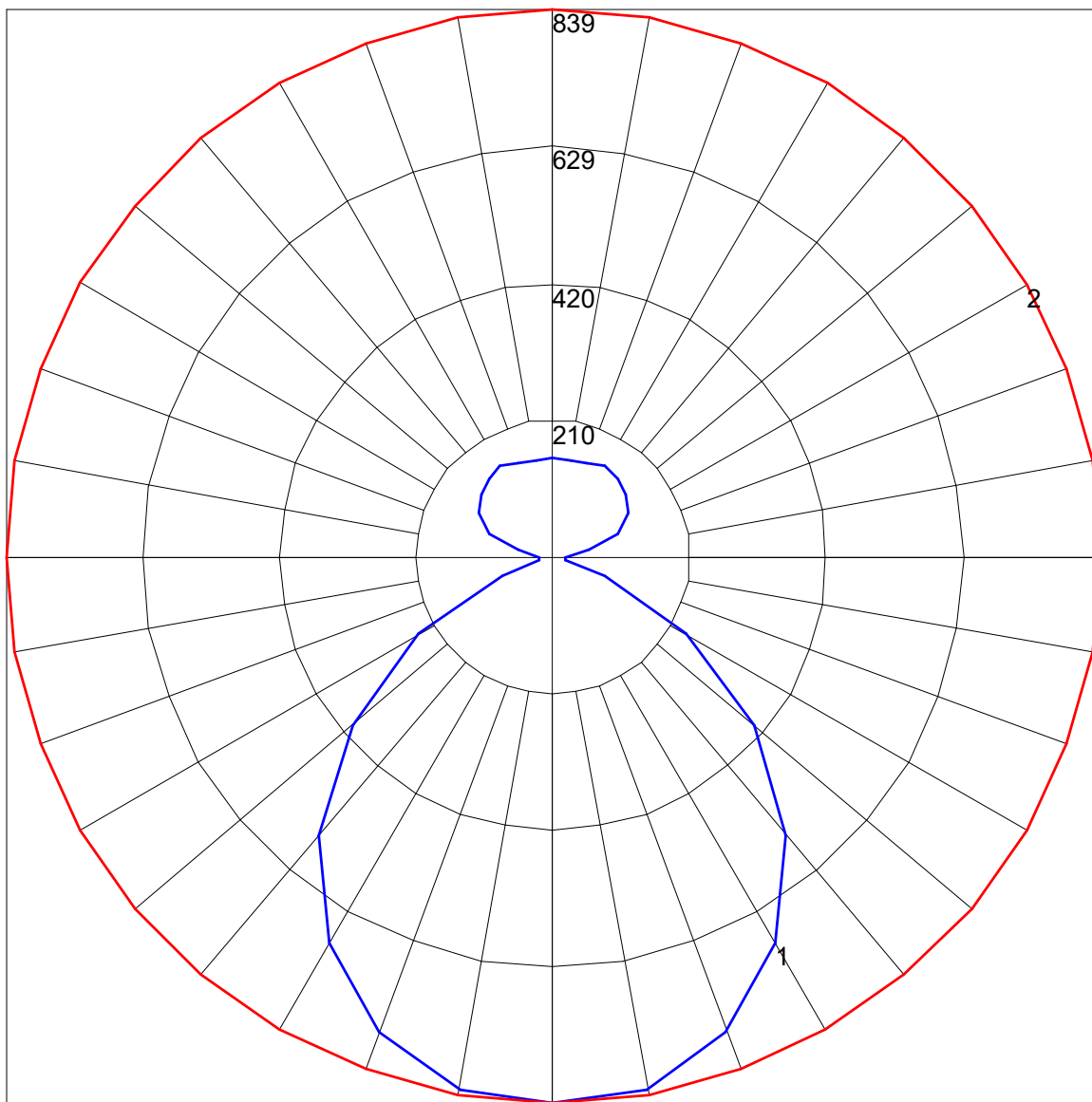
Reflectances

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	11.8	12.8	12.5	13.5	14.4	8.8	9.8	9.5	10.6	11.4
	3H	12.5	13.4	13.3	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	11.8
	6H	12.8	13.6	13.5	14.3	15.3	9.4	10.2	10.2	11.0	11.9
	8H	12.8	13.6	13.6	14.3	15.3	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	10.6	11.3	12.2
4H	2H	11.8	12.6	12.5	13.4	14.3	9.1	10.0	9.9	10.7	11.6
	3H	12.6	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	13.0	13.5	13.8	14.3	15.3	10.0	10.5	10.8	11.3	12.3
	8H	13.0	13.5	13.8	14.4	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	12.9
8H	4H	12.8	13.3	13.6	14.1	15.1	9.8	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	13.5	14.0	14.3	15.3	10.7	11.0	11.5	11.9	12.9

Maximum UGR = 15.6

POLAR GRAPH



Maximum Candela = 839.133 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.)