



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-2080-FB-HO-30.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-30
[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	4382
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
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	2280	2042	1988
55	1872	1454	1253
65	1274	767	564
75	670	402	362
85	783	855	846

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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	1574.214	1574.214	1574.214	1574.214	1574.214	1574.214	1574.214	1574.214	1574.214	1574.214
10	1556.549	1553.073	1549.908	1548.118	1546.661	1541.265	1538.033	1534.746	1533.493	1532.859
20	1456.506	1455.155	1452.926	1446.227	1437.288	1425.959	1417.524	1407.957	1403.254	1402.246
30	1283.989	1282.130	1270.675	1248.487	1236.068	1223.964	1224.236	1220.006	1216.916	1216.993
40	1046.373	1038.514	1011.492	985.442	971.509	965.812	966.382	971.768	970.157	969.162
50	753.002	741.303	706.383	676.071	650.996	633.615	616.326	605.982	601.945	599.279
60	445.179	428.246	382.965	346.788	308.998	267.632	231.815	211.429	205.581	202.434
70	155.464	146.018	124.493	95.447	76.644	70.455	66.416	64.501	63.486	63.508
80	38.021	39.867	40.334	41.598	42.373	42.520	42.358	41.606	41.248	40.966
90	38.087	39.634	40.561	40.968	40.884	40.569	40.477	40.373	40.910	41.268
100	105.549	91.196	80.777	79.501	79.552	81.176	78.231	75.068	71.022	70.485
110	198.642	187.313	161.805	138.755	133.945	121.923	114.143	106.962	103.054	101.407
120	249.360	245.932	224.032	203.439	175.941	161.133	152.873	149.165	141.484	140.261
130	274.440	275.337	258.261	243.235	228.994	218.914	207.472	193.759	180.111	180.486
140	288.508	291.810	288.219	274.967	264.011	256.719	250.313	232.011	228.568	229.544
150	300.269	302.651	302.175	301.404	288.000	277.886	260.569	255.391	255.382	256.271
160	290.739	294.391	292.830	288.540	283.102	279.203	277.063	277.224	277.301	277.727
170	278.764	280.715	281.927	284.272	285.146	286.238	287.649	288.206	288.653	288.428
180	285.655	285.655	285.655	285.655	285.655	285.655	285.655	285.655	285.655	285.655

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	570.30	N.A.	13.00
0-30	1188.71	N.A.	27.10
0-40	1888.86	N.A.	43.10
0-60	2954.97	N.A.	67.40
0-80	3219.16	N.A.	73.50
0-90	3263.73	N.A.	74.50
10-90	3114.94	N.A.	71.10
20-40	1318.56	N.A.	30.10
20-50	1955.22	N.A.	44.60
40-70	1260.45	N.A.	28.80
60-80	264.19	N.A.	6.00
70-80	69.84	N.A.	1.60
80-90	44.58	N.A.	1.00
90-110	180.15	N.A.	4.10
90-120	338.24	N.A.	7.70
90-130	521.77	N.A.	11.90
90-150	880.06	N.A.	20.10
90-180	1118.45	N.A.	25.50
110-180	938.31	N.A.	21.40
0-180	4382.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.79
10-20	421.51
20-30	618.40
30-40	700.16
40-50	636.66
50-60	429.44
60-70	194.34
70-80	69.84
80-90	44.58
90-100	65.98
100-110	114.16
110-120	158.09
120-130	183.54
130-140	188.41
140-150	169.87
150-160	130.52
160-170	80.64
170-180	27.24

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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	101	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	29	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

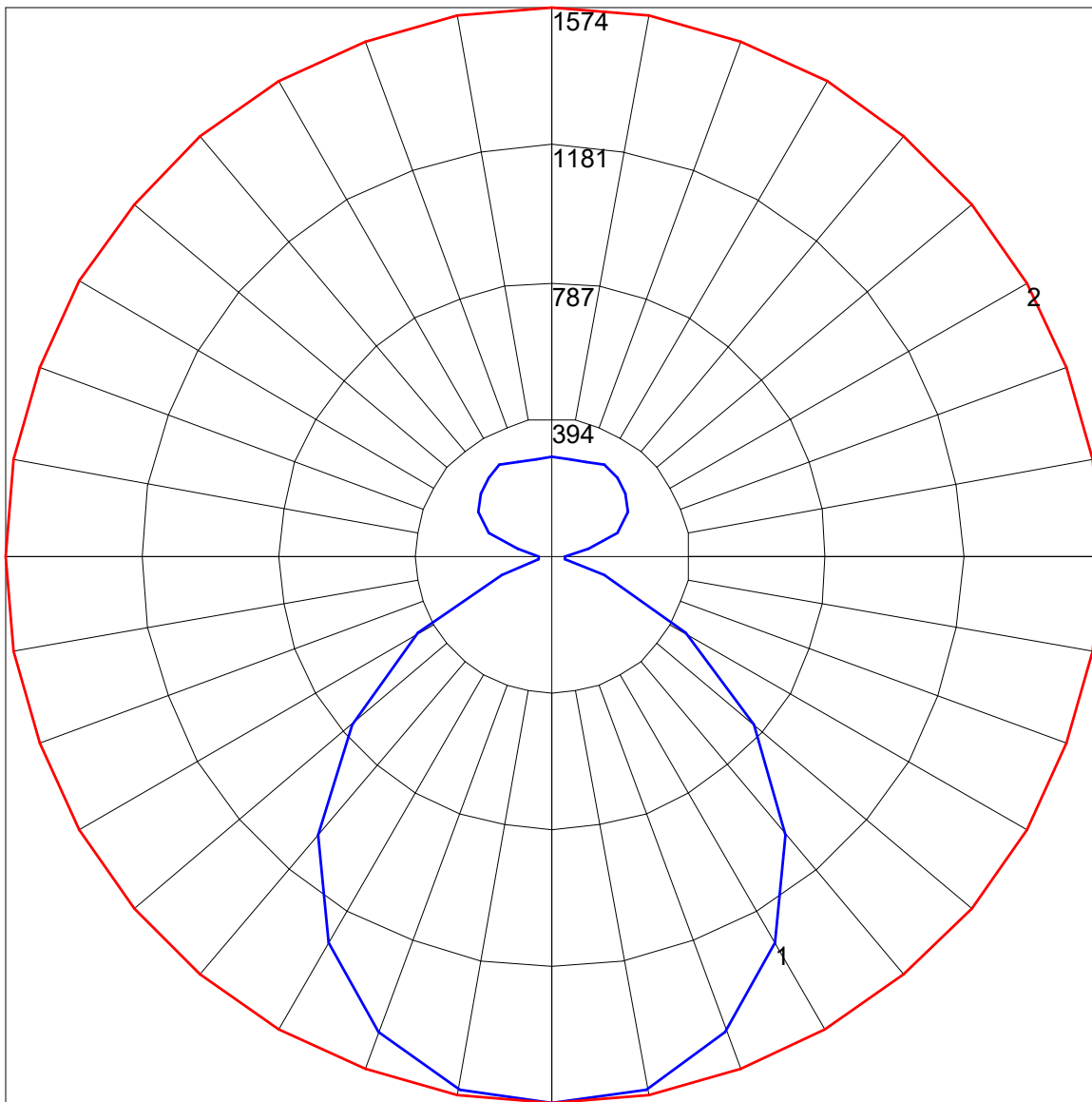
Reflectances

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	11.6	12.6	12.3	13.3	14.2	8.6	9.6	9.3	10.3	11.2
	3H	12.3	13.2	13.0	14.0	14.9	8.9	9.8	9.6	10.6	11.5
	4H	12.5	13.4	13.3	14.1	15.0	9.0	9.9	9.8	10.6	11.5
	6H	12.6	13.4	13.3	14.1	15.1	9.2	10.0	10.0	10.7	11.7
	8H	12.6	13.3	13.4	14.1	15.0	9.3	10.1	10.1	10.9	11.8
	12H	12.6	13.4	13.4	14.1	15.1	9.6	10.3	10.3	11.1	12.0
4H	2H	11.6	12.4	12.3	13.2	14.1	8.9	9.8	9.6	10.5	11.4
	3H	12.3	13.1	13.1	13.9	14.8	9.3	10.0	10.0	10.8	11.7
	4H	12.6	13.3	13.4	14.1	15.0	9.5	10.1	10.3	10.9	11.9
	6H	12.7	13.3	13.5	14.1	15.1	9.8	10.3	10.6	11.1	12.1
	8H	12.8	13.3	13.6	14.1	15.1	10.0	10.5	10.8	11.3	12.3
	12H	12.9	13.4	13.8	14.2	15.2	10.4	10.8	11.2	11.7	12.6
8H	4H	12.6	13.1	13.4	13.9	14.9	9.5	10.1	10.4	10.9	11.9
	6H	12.7	13.2	13.6	14.0	15.0	10.0	10.4	10.8	11.3	12.2
	8H	12.9	13.3	13.7	14.1	15.1	10.3	10.7	11.2	11.6	12.6
	12H	13.1	13.5	14.0	14.3	15.4	10.9	11.3	11.8	12.1	13.2
12H	4H	12.5	13.0	13.3	13.8	14.8	9.5	10.0	10.4	10.8	11.8
	6H	12.7	13.1	13.6	14.0	15.0	10.0	10.4	10.9	11.2	12.3
	8H	12.9	13.3	13.7	14.1	15.1	10.5	10.8	11.3	11.6	12.7

Maximum UGR = 15.4

POLAR GRAPH



Maximum Candela = 1574.214 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.)