



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L445 VHO NW
 [TESTLAB] Dekko
 [TESTDATE] 03-31-2017
 [ISSUE DATE] 9/2/2020
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CURV-4-LED-FB-VHO-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	8705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	71.9
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
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	894	735	591
55	791	548	314
65	649	325	96
75	512	260	52
85	749	631	183

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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	268.739	268.739	268.739	268.739	268.739	268.739	268.739	268.739	268.739	268.739
10	266.687	268.227	269.272	268.053	266.563	264.168	261.459	259.975	258.283	256.772
20	256.613	258.513	257.843	254.178	249.033	244.493	240.614	237.133	234.928	232.765
30	233.344	236.649	231.276	223.036	217.239	213.502	209.745	206.224	202.597	199.556
40	199.640	202.321	193.794	181.733	174.987	169.581	165.635	161.464	156.546	151.500
50	153.071	153.643	145.221	132.521	122.425	113.345	103.959	96.141	88.189	81.771
60	100.008	98.244	89.736	79.147	64.506	50.460	37.536	28.124	22.634	18.612
70	53.017	51.034	43.412	30.951	21.298	16.887	13.756	9.819	6.539	4.049
80	20.961	22.396	21.758	21.507	19.640	17.377	15.108	11.110	6.934	3.471
90	15.483	15.346	14.681	14.073	12.825	11.568	9.893	8.177	6.295	5.415
100	419.344	404.666	392.285	386.561	358.792	321.040	283.799	240.072	177.597	149.347
110	1612.715	1576.667	1516.712	1426.334	1321.301	1196.555	1036.062	818.479	577.336	459.439
120	2193.868	2169.148	2096.301	1974.128	1831.416	1631.826	1404.172	1157.705	907.781	798.347
130	2327.251	2280.456	2207.619	2100.722	1969.722	1808.323	1609.433	1390.041	1175.846	1104.434
140	2294.531	2271.289	2225.074	2144.705	2032.844	1893.344	1734.599	1555.454	1381.936	1341.594
150	2229.082	2209.729	2170.548	2106.458	2025.138	1912.531	1783.451	1644.110	1551.902	1534.401
160	2088.897	2073.686	2045.064	1998.424	1936.632	1859.903	1779.136	1714.806	1678.203	1677.227
170	1882.014	1872.010	1860.133	1842.626	1821.846	1802.766	1782.532	1766.920	1762.983	1765.119
180	1799.795	1799.795	1799.795	1799.795	1799.795	1799.795	1799.795	1799.795	1799.795	1799.795

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	97.86	N.A.	1.10
0-30	205.30	N.A.	2.40
0-40	328.79	N.A.	3.80
0-60	522.88	N.A.	6.00
0-80	586.10	N.A.	6.70
0-90	601.34	N.A.	6.90
10-90	575.90	N.A.	6.60
20-40	230.93	N.A.	2.70
20-50	345.14	N.A.	4.00
40-70	235.55	N.A.	2.70
60-80	63.23	N.A.	0.70
70-80	21.76	N.A.	0.20
80-90	15.24	N.A.	0.20
90-110	963.86	N.A.	11.10
90-120	2352.09	N.A.	27.00
90-130	3893.54	N.A.	44.70
90-150	6525.49	N.A.	75.00
90-180	8103.35	N.A.	93.10
110-180	7139.49	N.A.	82.00
0-180	8704.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.44
10-20	72.43
20-30	107.44
30-40	123.49
40-50	114.21
50-60	79.88
60-70	41.47
70-80	21.76
80-90	15.24
90-100	178.96
100-110	784.89
110-120	1388.24
120-130	1541.45
130-140	1433.38
140-150	1198.57
150-160	880.85
160-170	524.48
170-180	172.53

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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	97	97	97	97	84	84	84	84	59	59	59	37	37	37	17	17	17	7
1	88	84	81	77	76	73	70	67	52	50	48	32	32	31	15	14	14	6
2	80	74	68	63	69	64	59	55	45	43	40	29	27	26	13	12	12	5
3	73	65	58	52	63	56	51	46	40	37	34	25	23	22	12	11	10	4
4	67	57	50	44	58	50	44	39	35	32	29	22	20	19	10	9	9	4
5	61	51	43	38	53	44	38	33	32	28	24	20	18	16	9	8	8	3
6	56	45	38	32	48	39	33	29	28	24	21	18	16	14	8	7	7	3
7	52	40	33	28	45	35	29	25	25	21	18	16	14	12	8	7	6	3
8	48	36	29	24	41	32	26	22	23	19	16	15	12	11	7	6	5	2
9	44	33	26	21	38	29	23	19	21	17	14	13	11	9	6	5	5	2
10	41	30	23	19	36	26	21	17	19	15	13	12	10	8	6	5	4	2

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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

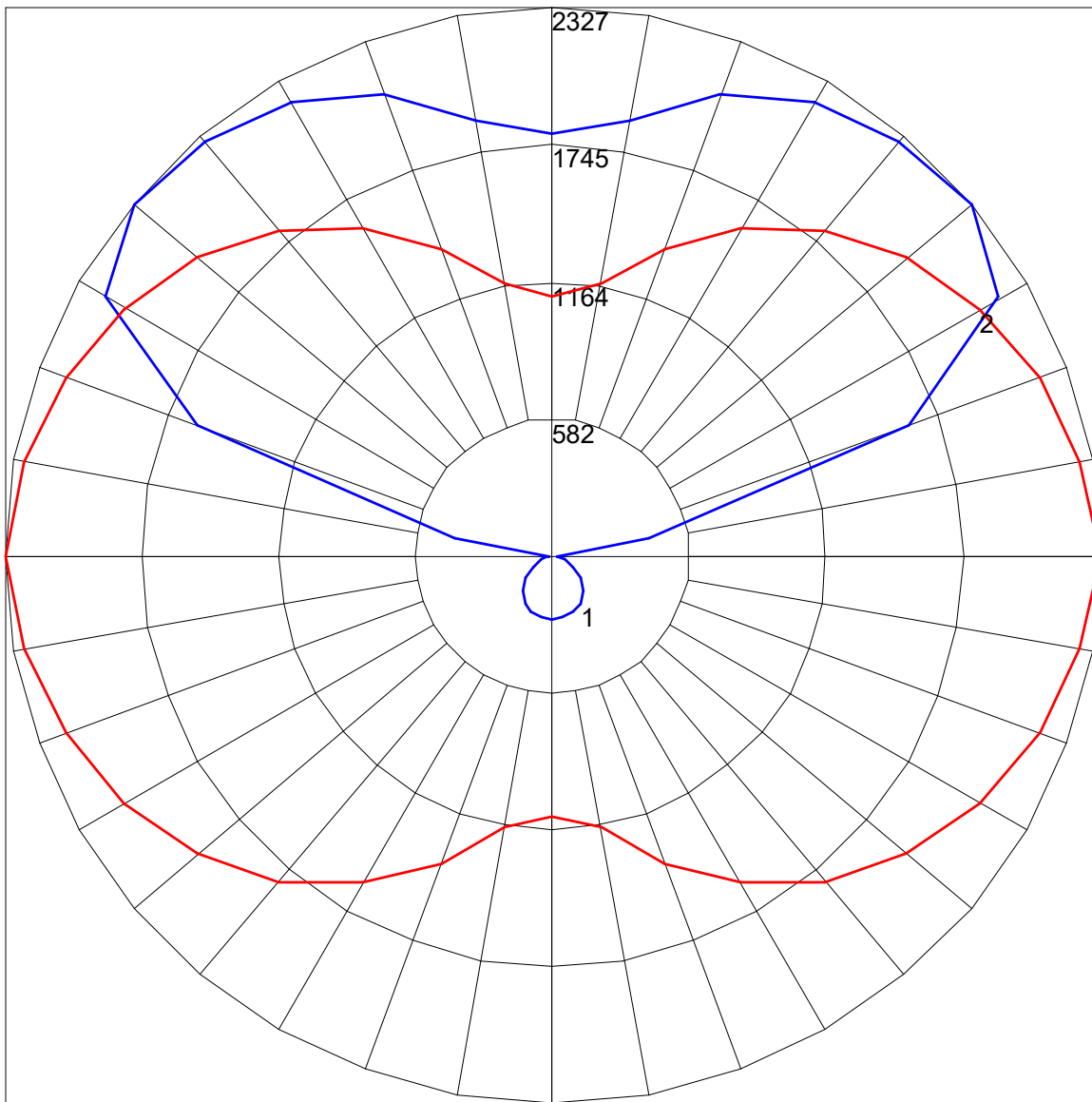
X=2H	Y=2H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	3H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	4H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	6H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	8H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	12H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

UGR Viewed Endwise

4H	2H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	3H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	4H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	6H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	8H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	12H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
8H	4H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	6H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	8H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	12H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
12H	4H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	6H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	8H	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

Maximum UGR = 7.5

POLAR GRAPH



Maximum Candela = 2327.251 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)