



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-5050-FB-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L445 VHO NW 50 50
[TESTLAB] Dekko
[TESTDATE] 03-31-2017
[ISSUE DATE] 9/2/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CURV-4-LED-5050-FB-VHO-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	3695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	71.9
Ballast Factor	1.00
CIE Type	General Diffuse
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	2898	2496	2189
55	2369	1710	1171
65	1587	787	363
75	697	227	124
85	171	260	177

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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	998.701	998.701	998.701	998.701	998.701	998.701	998.701	998.701	998.701	998.701
10	984.748	984.178	982.942	979.723	977.395	973.919	969.252	964.906	961.045	957.699
20	923.284	922.623	920.396	913.006	902.849	890.787	881.693	874.690	868.228	863.419
30	813.790	811.667	801.362	784.303	771.954	764.908	757.080	749.712	740.953	735.660
40	663.833	659.537	637.918	616.024	601.751	592.440	586.478	580.432	569.208	560.054
50	479.637	471.576	443.919	419.157	397.734	377.214	354.102	335.228	317.247	303.394
60	278.430	270.374	241.792	209.822	178.141	141.695	109.596	90.599	79.536	71.206
70	95.830	87.405	68.536	44.638	28.220	23.303	19.773	17.179	15.039	14.296
80	4.814	5.747	6.644	6.953	7.036	6.873	6.423	5.585	4.196	3.567
90	3.499	3.994	4.932	5.905	5.668	5.732	5.393	4.841	4.462	5.029
100	111.520	115.856	111.790	112.750	90.436	80.890	69.161	65.575	59.696	57.659
110	282.151	289.928	286.991	279.369	252.835	231.260	215.034	195.424	173.281	167.920
120	349.833	407.598	398.568	370.916	357.768	331.267	292.816	265.013	257.359	258.467
130	394.723	508.075	383.288	458.816	380.224	361.354	331.471	325.797	325.407	326.570
140	407.433	429.616	441.656	388.184	387.765	381.543	382.376	382.142	382.528	382.656
150	396.464	398.920	405.956	409.917	415.644	419.720	422.132	422.774	422.737	425.106
160	424.842	425.083	430.197	435.377	438.502	441.248	443.240	444.896	445.560	447.415
170	442.487	441.242	442.756	445.851	447.505	448.932	449.686	451.460	451.669	454.892
180	446.327	446.327	446.327	446.327	446.327	446.327	446.327	446.327	446.327	446.327

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	359.22	N.A.	9.70
0-30	745.57	N.A.	20.20
0-40	1178.76	N.A.	31.90
0-60	1813.82	N.A.	49.10
0-80	1940.41	N.A.	52.50
0-90	1946.4	N.A.	52.70
10-90	1852.25	N.A.	50.10
20-40	819.54	N.A.	22.20
20-50	1205.19	N.A.	32.60
40-70	737.39	N.A.	20.00
60-80	126.59	N.A.	3.40
70-80	24.26	N.A.	0.70
80-90	5.99	N.A.	0.20
90-110	223.46	N.A.	6.00
90-120	506.61	N.A.	13.70
90-130	826.62	N.A.	22.40
90-150	1382.8	N.A.	37.40
90-180	1748.14	N.A.	47.30
110-180	1524.69	N.A.	41.30
0-180	3694.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.15
10-20	265.08
20-30	386.35
30-40	433.19
40-50	385.65
50-60	249.41
60-70	102.32
70-80	24.26
80-90	5.99
90-100	50.67
100-110	172.79
110-120	283.15
120-130	320.01
130-140	301.43
140-150	254.75
150-160	197.20
160-170	125.48
170-180	42.66

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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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	100	96	92	89	92	89	86	83	76	74	72	64	63	62	54	53	52	47
2	92	85	79	75	85	79	74	70	68	65	62	58	56	53	49	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	46	44	42	40	36
4	78	68	60	55	72	63	57	52	55	50	46	47	44	41	40	37	35	32
5	72	61	53	47	66	57	50	45	50	44	40	43	39	36	36	34	31	28
6	66	55	47	42	61	51	45	40	45	40	36	39	35	32	33	30	28	25
7	61	50	42	37	57	47	40	35	41	36	32	36	32	28	31	28	25	23
8	57	45	38	33	53	43	36	31	38	32	28	33	29	26	28	25	23	20
9	53	42	34	29	50	39	33	28	35	29	26	30	26	23	26	23	21	19
10	50	38	31	27	46	36	30	26	32	27	23	28	24	21	24	21	19	17

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UGR TABLE - CORRECTED

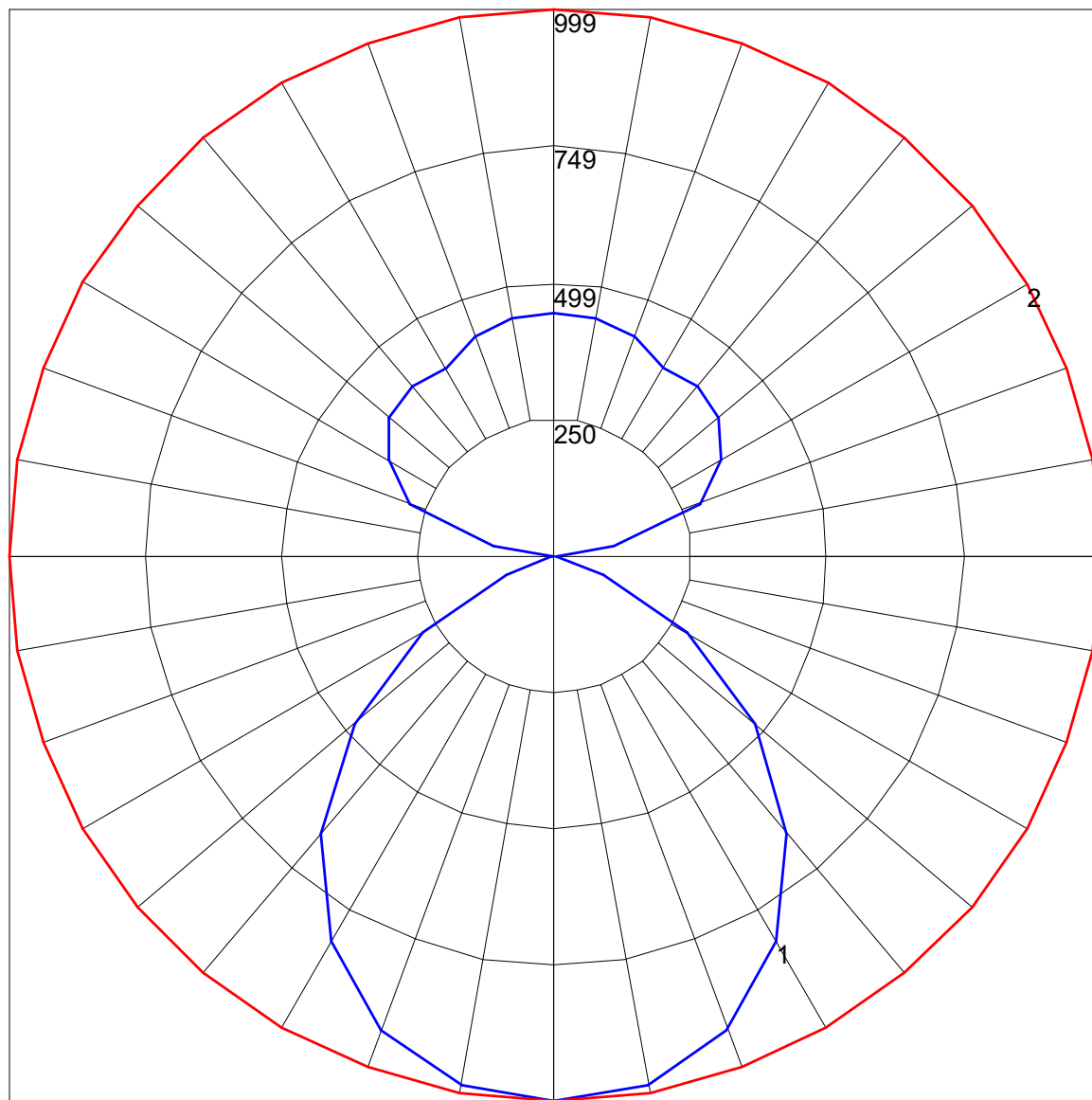
Reflectances

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	10.8	11.6	11.7	12.5	13.8	5.9	6.7	6.8	7.6	8.9
	3H	11.4	12.1	12.4	13.1	14.4	5.9	6.6	6.8	7.6	8.8
	4H	11.5	12.2	12.5	13.2	14.4	5.8	6.5	6.8	7.5	8.7
	6H	11.5	12.1	12.5	13.1	14.4	5.7	6.4	6.7	7.3	8.6
	8H	11.4	12.0	12.4	13.0	14.3	5.7	6.3	6.7	7.3	8.6
	12H	11.4	11.9	12.4	12.9	14.2	5.7	6.2	6.6	7.2	8.5
4H	2H	10.6	11.3	11.6	12.3	13.6	6.2	6.9	7.2	7.9	9.2
	3H	11.3	11.9	12.3	12.9	14.2	6.3	6.8	7.3	7.8	9.1
	4H	11.5	12.0	12.5	13.0	14.3	6.2	6.7	7.2	7.7	9.0
	6H	11.4	11.9	12.4	12.9	14.2	6.2	6.6	7.2	7.6	8.9
	8H	11.4	11.8	12.4	12.8	14.1	6.1	6.5	7.1	7.5	8.9
	12H	11.3	11.7	12.4	12.7	14.0	6.1	6.5	7.1	7.5	8.8
8H	4H	11.3	11.7	12.3	12.7	14.1	6.2	6.6	7.2	7.6	8.9
	6H	11.3	11.6	12.3	12.7	14.0	6.1	6.5	7.2	7.5	8.8
	8H	11.2	11.5	12.3	12.6	13.9	6.1	6.4	7.2	7.4	8.8
	12H	11.2	11.5	12.2	12.5	13.9	6.1	6.4	7.2	7.4	8.8
12H	4H	11.3	11.6	12.3	12.6	14.0	6.1	6.5	7.2	7.5	8.8
	6H	11.2	11.5	12.3	12.6	13.9	6.1	6.4	7.1	7.4	8.8
	8H	11.2	11.4	12.2	12.5	13.9	6.1	6.3	7.1	7.4	8.7

Maximum UGR = 14.4

POLAR GRAPH



Maximum Candela = 998.701 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.)