



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L445 HO NW 50 50
[TESTLAB] Dekko
[TESTDATE] 04-05-2017
[ISSUE DATE] 9/2/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CURV-4-LED-5050-FB-HO-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	2505
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	48.5
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	1965	1692	1484
55	1606	1160	794
65	1076	534	246
75	473	154	84
85	116	176	120

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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	677.086	677.086	677.086	677.086	677.086	677.086	677.086	677.086	677.086	677.086
10	667.626	667.240	666.401	664.219	662.641	660.284	657.120	654.174	651.556	649.287
20	625.956	625.507	623.997	618.987	612.101	603.923	597.758	593.010	588.629	585.369
30	551.722	550.283	543.296	531.731	523.359	518.582	513.275	508.279	502.341	498.752
40	450.056	447.144	432.487	417.643	407.967	401.654	397.612	393.513	385.904	379.697
50	325.178	319.712	300.962	284.174	269.650	255.739	240.069	227.273	215.083	205.691
60	188.766	183.305	163.927	142.252	120.773	96.065	74.302	61.423	53.923	48.276
70	64.970	59.258	46.465	30.263	19.132	15.799	13.406	11.647	10.196	9.692
80	3.264	3.896	4.504	4.714	4.770	4.660	4.354	3.787	2.845	2.418
90	2.372	2.708	3.344	4.003	3.843	3.886	3.656	3.282	3.025	3.410
100	75.607	78.547	75.790	76.440	61.313	54.841	46.889	44.458	40.472	39.091
110	191.289	196.561	194.570	189.402	171.413	156.786	145.786	132.491	117.479	113.844
120	237.175	276.338	270.216	251.468	242.555	224.588	198.519	179.670	174.481	175.232
130	267.609	344.458	259.856	311.062	257.779	244.986	224.726	220.879	220.615	221.403
140	276.225	291.265	299.428	263.176	262.892	258.673	259.238	259.080	259.341	259.428
150	268.789	270.454	275.225	277.910	281.793	284.556	286.191	286.627	286.601	288.208
160	288.029	288.192	291.659	295.171	297.290	299.151	300.502	301.625	302.074	303.332
170	299.991	299.147	300.173	302.272	303.393	304.360	304.872	306.075	306.216	308.401
180	302.595	302.595	302.595	302.595	302.595	302.595	302.595	302.595	302.595	302.595

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	243.54	N.A.	9.70
0-30	505.47	N.A.	20.20
0-40	799.16	N.A.	31.90
0-60	1229.71	N.A.	49.10
0-80	1315.53	N.A.	52.50
0-90	1319.59	N.A.	52.70
10-90	1255.76	N.A.	50.10
20-40	555.62	N.A.	22.20
20-50	817.08	N.A.	32.60
40-70	499.92	N.A.	20.00
60-80	85.82	N.A.	3.40
70-80	16.45	N.A.	0.70
80-90	4.06	N.A.	0.20
90-110	151.50	N.A.	6.00
90-120	343.46	N.A.	13.70
90-130	560.42	N.A.	22.40
90-150	937.49	N.A.	37.40
90-180	1185.18	N.A.	47.30
110-180	1033.69	N.A.	41.30
0-180	2504.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.83
10-20	179.71
20-30	261.93
30-40	293.69
40-50	261.46
50-60	169.09
60-70	69.37
70-80	16.45
80-90	4.06
90-100	34.35
100-110	117.14
110-120	191.97
120-130	216.96
130-140	204.36
140-150	172.71
150-160	133.70
160-170	85.07
170-180	28.92

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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

X=2H	Y=2H	9.5	10.3	10.4	11.2	12.5	4.6	5.4	5.5	6.3	7.6
	3H	10.1	10.8	11.1	11.8	13.1	4.6	5.3	5.5	6.3	7.5
	4H	10.2	10.9	11.2	11.9	13.1	4.5	5.2	5.5	6.2	7.4
	6H	10.2	10.8	11.2	11.8	13.1	4.4	5.1	5.4	6.0	7.3
	8H	10.1	10.7	11.1	11.7	13.0	4.4	5.0	5.4	6.0	7.3
	12H	10.1	10.6	11.1	11.6	12.9	4.4	4.9	5.4	5.9	7.2

UGR Viewed Endwise

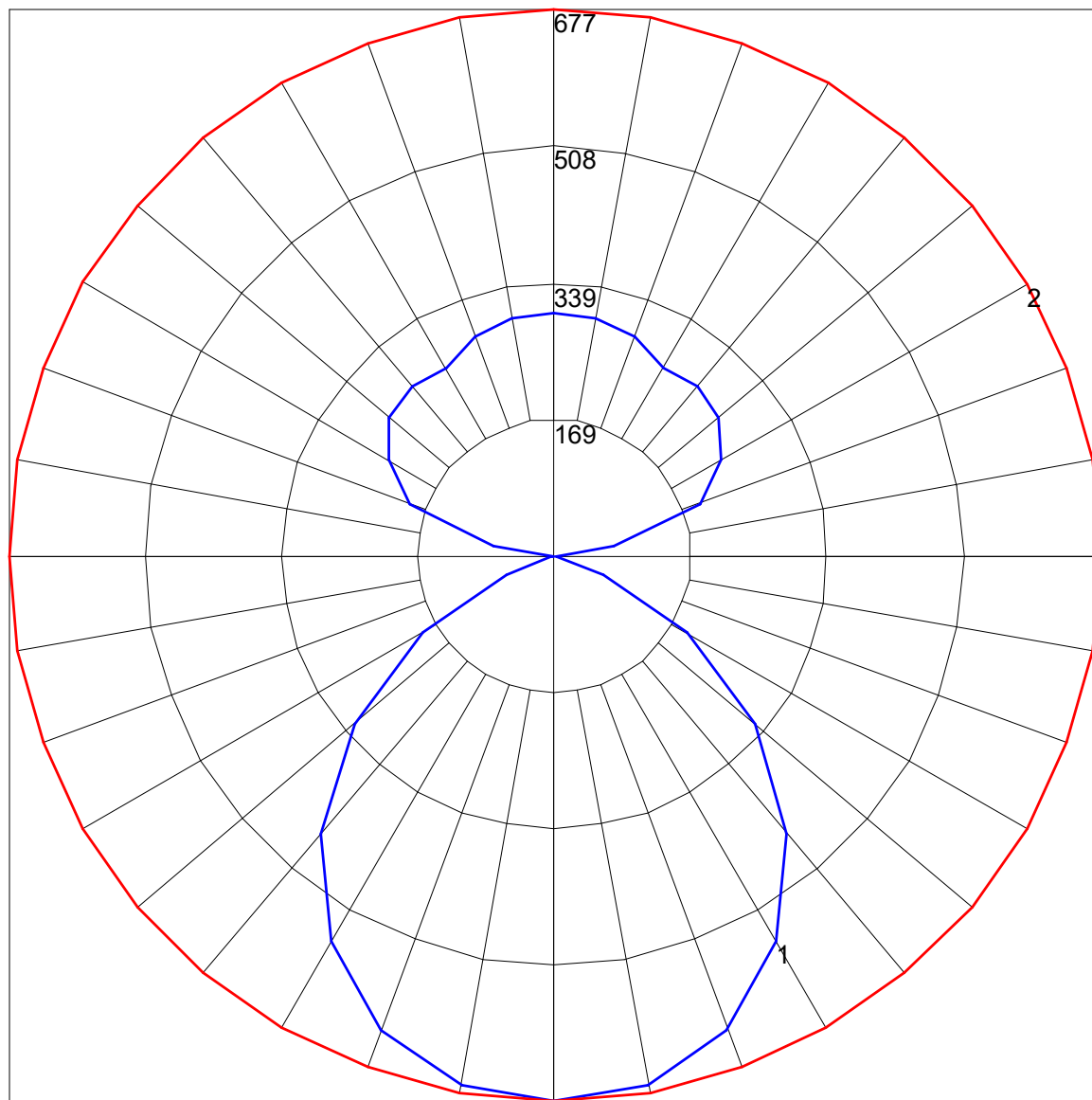
4H	2H	9.3	10.0	10.3	11.0	12.3	4.9	5.6	5.9	6.6	7.9
	3H	10.0	10.6	11.0	11.6	12.9	5.0	5.5	6.0	6.5	7.8
	4H	10.2	10.7	11.2	11.7	13.0	4.9	5.4	5.9	6.4	7.7
	6H	10.1	10.6	11.1	11.6	12.9	4.9	5.3	5.9	6.3	7.6
	8H	10.1	10.5	11.1	11.5	12.8	4.8	5.2	5.8	6.2	7.6
	12H	10.0	10.4	11.1	11.4	12.7	4.8	5.2	5.8	6.2	7.5

8H	4H	10.0	10.4	11.0	11.4	12.8	4.9	5.3	5.9	6.3	7.6
	6H	10.0	10.3	11.0	11.4	12.7	4.8	5.2	5.9	6.2	7.5
	8H	9.9	10.2	11.0	11.3	12.6	4.8	5.1	5.9	6.1	7.5
	12H	9.9	10.2	10.9	11.2	12.6	4.8	5.1	5.9	6.1	7.5

12H	4H	10.0	10.3	11.0	11.3	12.7	4.8	5.2	5.9	6.2	7.5
	6H	9.9	10.2	11.0	11.3	12.6	4.8	5.1	5.8	6.1	7.5
	8H	9.9	10.1	10.9	11.2	12.6	4.8	5.0	5.8	6.1	7.5

Maximum UGR = 13.1

POLAR GRAPH



Maximum Candela = 677.086 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.)