



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-5050-FB-VHO-30.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-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	3584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
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	2811	2421	2123
55	2298	1659	1135
65	1540	764	352
75	676	220	120
85	166	252	171

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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	968.751	968.751	968.751	968.751	968.751	968.751	968.751	968.751	968.751	968.751
10	955.215	954.663	953.464	950.341	948.083	944.711	940.185	935.969	932.224	928.978
20	895.595	894.953	892.794	885.626	875.773	864.073	855.251	848.458	842.190	837.525
30	789.384	787.326	777.330	760.782	748.804	741.969	734.376	727.228	718.732	713.598
40	643.925	639.758	618.787	597.550	583.705	574.673	568.889	563.025	552.137	543.258
50	465.253	457.433	430.606	406.587	385.806	365.902	343.483	325.174	307.733	294.295
60	270.080	262.266	234.541	203.530	172.798	137.446	106.309	87.882	77.151	69.071
70	92.957	84.784	66.481	43.300	27.374	22.604	19.180	16.663	14.588	13.867
80	4.669	5.574	6.445	6.745	6.825	6.667	6.230	5.418	4.070	3.460
90	3.394	3.874	4.784	5.728	5.498	5.560	5.231	4.696	4.328	4.878
100	108.176	112.382	108.437	109.368	87.724	78.464	67.087	63.609	57.906	55.930
110	273.690	281.233	278.384	270.990	245.252	224.325	208.585	189.563	168.085	162.884
120	339.342	395.374	386.615	359.792	347.039	321.332	284.035	257.065	249.641	250.716
130	382.885	492.839	371.793	445.056	368.821	350.517	321.530	316.026	315.649	316.776
140	395.214	416.732	428.411	376.543	376.136	370.101	370.909	370.682	371.056	371.180
150	384.574	386.957	393.782	397.624	403.179	407.133	409.473	410.095	410.059	412.357
160	412.101	412.335	417.295	422.320	425.352	428.015	429.948	431.554	432.198	433.998
170	429.217	428.010	429.477	432.480	434.085	435.468	436.200	437.921	438.123	441.250
180	432.942	432.942	432.942	432.942	432.942	432.942	432.942	432.942	432.942	432.942

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	348.45	N.A.	9.70
0-30	723.21	N.A.	20.20
0-40	1143.41	N.A.	31.90
0-60	1759.43	N.A.	49.10
0-80	1882.22	N.A.	52.50
0-90	1888.03	N.A.	52.70
10-90	1796.7	N.A.	50.10
20-40	794.96	N.A.	22.20
20-50	1169.04	N.A.	32.60
40-70	715.27	N.A.	20.00
60-80	122.79	N.A.	3.40
70-80	23.53	N.A.	0.70
80-90	5.81	N.A.	0.20
90-110	216.75	N.A.	6.00
90-120	491.41	N.A.	13.70
90-130	801.83	N.A.	22.40
90-150	1341.33	N.A.	37.40
90-180	1695.72	N.A.	47.30
110-180	1478.96	N.A.	41.30
0-180	3583.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.32
10-20	257.13
20-30	374.76
30-40	420.20
40-50	374.08
50-60	241.93
60-70	99.26
70-80	23.53
80-90	5.81
90-100	49.15
100-110	167.60
110-120	274.66
120-130	310.42
130-140	292.39
140-150	247.11
150-160	191.29
160-170	121.72
170-180	41.38

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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

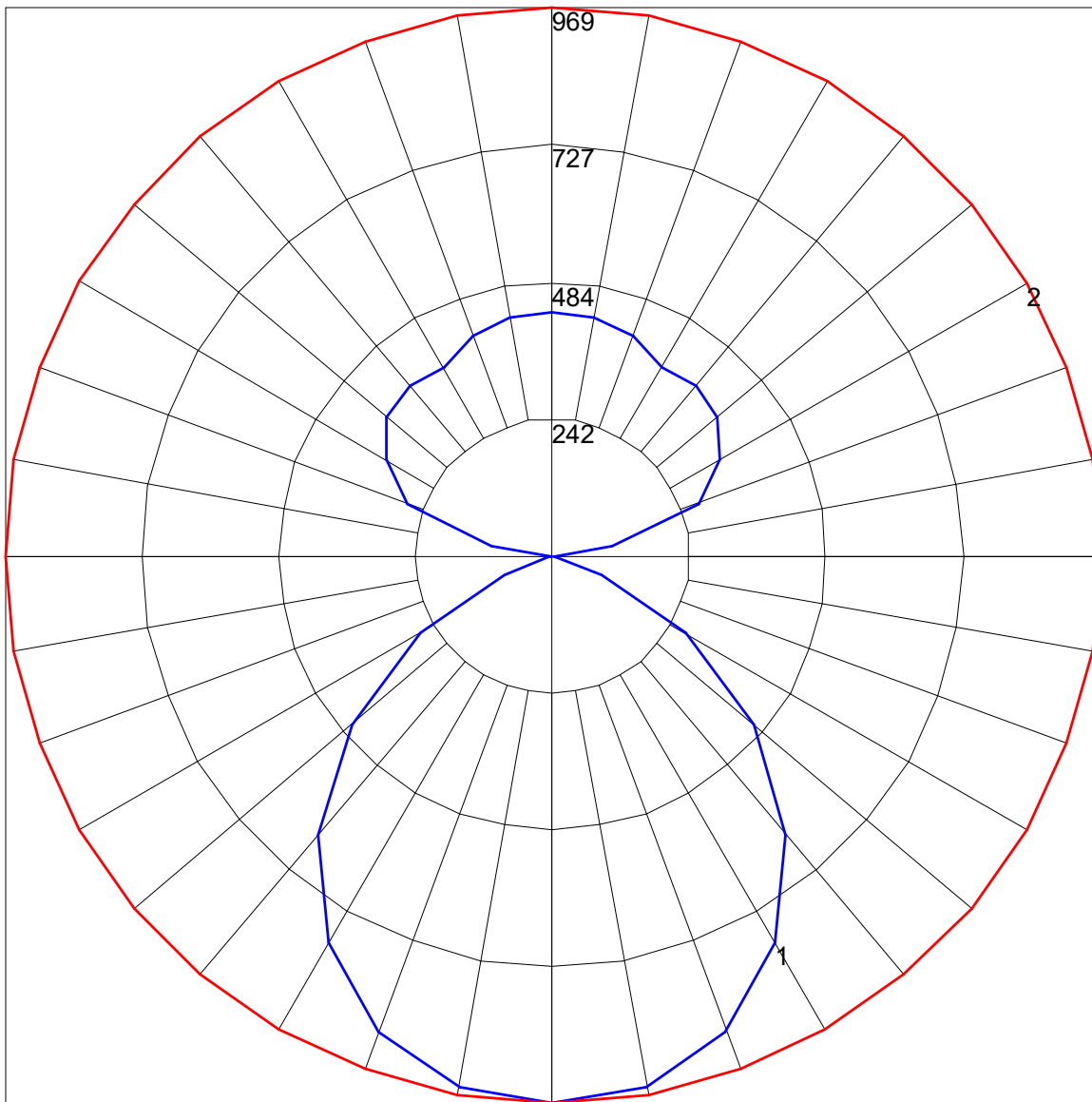
Reflectances

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	10.7	11.5	11.6	12.4	13.7	5.8	6.6	6.7	7.5	8.8
	3H	11.3	12.0	12.3	13.0	14.3	5.8	6.5	6.7	7.5	8.7
	4H	11.4	12.1	12.4	13.1	14.3	5.7	6.4	6.7	7.4	8.6
	6H	11.4	12.0	12.4	13.0	14.3	5.6	6.3	6.6	7.2	8.5
	8H	11.3	11.9	12.3	12.9	14.2	5.6	6.2	6.6	7.2	8.5
	12H	11.3	11.8	12.3	12.8	14.1	5.6	6.1	6.6	7.1	8.4
4H	2H	10.5	11.2	11.5	12.2	13.5	6.1	6.8	7.1	7.8	9.1
	3H	11.2	11.8	12.2	12.8	14.1	6.2	6.7	7.2	7.7	9.0
	4H	11.4	11.9	12.4	12.9	14.2	6.1	6.6	7.1	7.6	8.9
	6H	11.3	11.8	12.3	12.8	14.1	6.1	6.5	7.1	7.5	8.8
	8H	11.3	11.7	12.3	12.7	14.0	6.0	6.4	7.0	7.4	8.8
	12H	11.2	11.6	12.3	12.6	13.9	6.0	6.4	7.0	7.4	8.7
8H	4H	11.2	11.6	12.2	12.6	14.0	6.1	6.5	7.1	7.5	8.8
	6H	11.2	11.5	12.2	12.6	13.9	6.0	6.4	7.1	7.4	8.7
	8H	11.1	11.4	12.2	12.5	13.8	6.0	6.3	7.1	7.3	8.7
	12H	11.1	11.4	12.1	12.4	13.8	6.0	6.3	7.1	7.3	8.7
12H	4H	11.2	11.5	12.2	12.5	13.9	6.0	6.4	7.1	7.4	8.7
	6H	11.1	11.4	12.2	12.5	13.8	6.0	6.3	7.0	7.3	8.7
	8H	11.1	11.3	12.1	12.4	13.8	6.0	6.2	7.0	7.3	8.7

Maximum UGR = 14.3

POLAR GRAPH



Maximum Candela = 968.751 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.)