



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-5050-FB-VHO-40.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-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	3821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
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	2997	2581	2263
55	2450	1769	1210
65	1641	814	375
75	721	234	128
85	177	269	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	1032.783	1032.783	1032.783	1032.783	1032.783	1032.783	1032.783	1032.783	1032.783	1032.783
10	1018.353	1017.765	1016.486	1013.157	1010.750	1007.155	1002.329	997.835	993.842	990.381
20	954.793	954.108	951.806	944.164	933.660	921.186	911.782	904.539	897.858	892.884
30	841.561	839.366	828.710	811.069	798.298	791.012	782.917	775.297	766.239	760.765
40	686.487	682.044	659.688	637.047	622.286	612.657	606.492	600.239	588.633	579.166
50	496.006	487.669	459.069	433.461	411.307	390.087	366.186	346.668	328.074	313.747
60	287.932	279.601	250.043	216.983	184.220	146.531	113.336	93.691	82.250	73.636
70	99.101	90.388	70.875	46.162	29.183	24.099	20.448	17.765	15.552	14.784
80	4.978	5.943	6.871	7.191	7.276	7.108	6.642	5.776	4.339	3.689
90	3.618	4.130	5.101	6.107	5.862	5.928	5.577	5.006	4.614	5.201
100	115.326	119.810	115.605	116.597	93.522	83.650	71.521	67.813	61.733	59.627
110	291.780	299.822	296.785	288.902	261.463	239.152	222.372	202.093	179.195	173.650
120	361.772	421.508	412.170	383.574	369.977	342.572	302.809	274.056	266.142	267.288
130	408.193	525.414	396.368	474.474	393.200	373.685	342.783	336.915	336.512	337.715
140	421.337	444.277	456.728	401.432	400.998	394.564	395.425	395.183	395.582	395.714
150	409.994	412.534	419.810	423.906	429.828	434.044	436.538	437.202	437.163	439.613
160	439.341	439.590	444.878	450.235	453.467	456.306	458.367	460.079	460.765	462.684
170	457.588	456.300	457.865	461.066	462.777	464.252	465.032	466.867	467.082	470.416
180	461.558	461.558	461.558	461.558	461.558	461.558	461.558	461.558	461.558	461.558

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	371.48	N.A.	9.70
0-30	771.01	N.A.	20.20
0-40	1218.99	N.A.	31.90
0-60	1875.72	N.A.	49.10
0-80	2006.63	N.A.	52.50
0-90	2012.82	N.A.	52.70
10-90	1915.46	N.A.	50.10
20-40	847.50	N.A.	22.20
20-50	1246.31	N.A.	32.60
40-70	762.55	N.A.	20.00
60-80	130.91	N.A.	3.40
70-80	25.09	N.A.	0.70
80-90	6.20	N.A.	0.20
90-110	231.08	N.A.	6.00
90-120	523.89	N.A.	13.70
90-130	854.83	N.A.	22.40
90-150	1429.99	N.A.	37.40
90-180	1807.8	N.A.	47.30
110-180	1576.72	N.A.	41.30
0-180	3820.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.36
10-20	274.12
20-30	399.53
30-40	447.98
40-50	398.81
50-60	257.93
60-70	105.82
70-80	25.09
80-90	6.20
90-100	52.40
100-110	178.68
110-120	292.81
120-130	330.93
130-140	311.72
140-150	263.44
150-160	203.93
160-170	129.76
170-180	44.12

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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

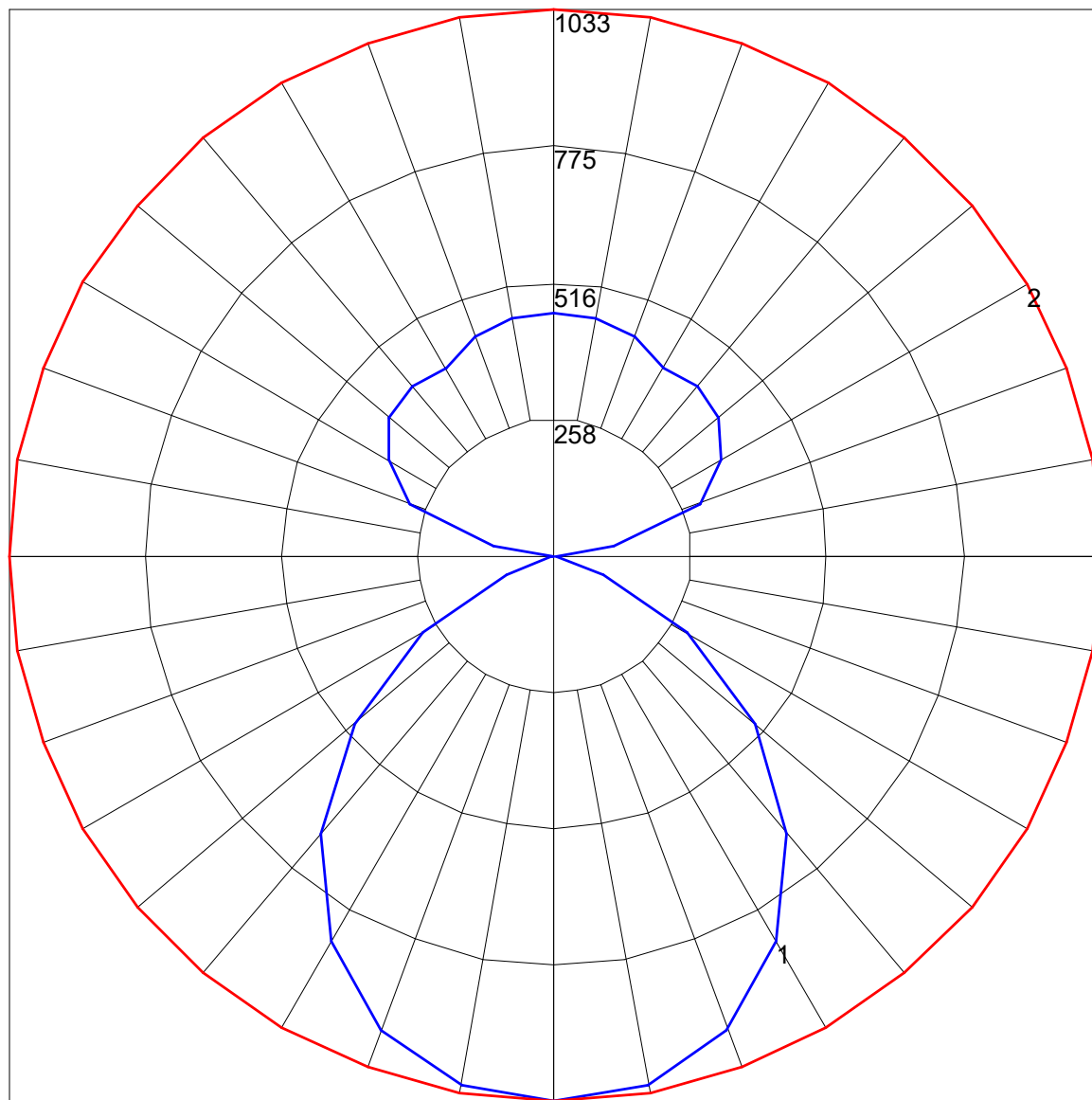
Reflectances

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	10.9	11.7	11.8	12.6	13.9	6.0	6.8	6.9	7.7	9.0
	3H	11.5	12.2	12.5	13.2	14.5	6.0	6.7	6.9	7.7	8.9
	4H	11.6	12.3	12.6	13.3	14.5	5.9	6.6	6.9	7.6	8.8
	6H	11.6	12.2	12.6	13.2	14.5	5.8	6.5	6.8	7.4	8.7
	8H	11.5	12.1	12.5	13.1	14.4	5.8	6.4	6.8	7.4	8.7
	12H	11.5	12.0	12.5	13.0	14.3	5.8	6.3	6.8	7.3	8.6
4H	2H	10.7	11.4	11.7	12.4	13.7	6.3	7.0	7.3	8.0	9.3
	3H	11.4	12.0	12.4	13.0	14.3	6.4	6.9	7.4	7.9	9.2
	4H	11.6	12.1	12.6	13.1	14.4	6.3	6.8	7.3	7.8	9.1
	6H	11.5	12.0	12.5	13.0	14.3	6.3	6.7	7.3	7.7	9.0
	8H	11.5	11.9	12.5	12.9	14.2	6.2	6.6	7.2	7.6	9.0
	12H	11.4	11.8	12.5	12.8	14.1	6.2	6.6	7.2	7.6	8.9
8H	4H	11.4	11.8	12.4	12.8	14.2	6.3	6.7	7.3	7.7	9.0
	6H	11.4	11.7	12.4	12.8	14.1	6.2	6.6	7.3	7.6	8.9
	8H	11.3	11.6	12.4	12.7	14.0	6.2	6.5	7.3	7.5	8.9
	12H	11.3	11.6	12.3	12.6	14.0	6.2	6.5	7.3	7.5	8.9
12H	4H	11.4	11.7	12.4	12.7	14.1	6.2	6.6	7.3	7.6	8.9
	6H	11.3	11.6	12.4	12.7	14.0	6.2	6.5	7.2	7.5	8.9
	8H	11.3	11.5	12.3	12.6	14.0	6.2	6.4	7.2	7.5	8.9

Maximum UGR = 14.5

POLAR GRAPH



Maximum Candela = 1032.783 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.)