



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-2080-FB-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L445 VHO NW 20 80
[TESTLAB] Dekko
[TESTDATE] 04-10-2017
[ISSUE DATE] 9/2/2020
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CURV-4-LED-2080-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	3332
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	46
Total Luminaire Watts	71.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
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	3468	3105	3023
55	2847	2211	1905
65	1937	1167	858
75	1019	611	550
85	1190	1300	1286

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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	1196.876	1196.876	1196.876	1196.876	1196.876	1196.876	1196.876	1196.876	1196.876	1196.876
10	1183.446	1180.803	1178.397	1177.036	1175.928	1171.826	1169.368	1166.869	1165.917	1165.434
20	1107.383	1106.356	1104.662	1099.568	1092.772	1084.158	1077.745	1070.471	1066.895	1066.129
30	976.218	974.805	966.096	949.226	939.784	930.581	930.788	927.572	925.223	925.281
40	795.558	789.584	769.039	749.233	738.639	734.308	734.741	738.836	737.611	736.855
50	572.508	563.614	537.064	514.018	494.953	481.738	468.593	460.729	457.659	455.632
60	338.470	325.596	291.169	263.663	234.931	203.481	176.250	160.750	156.304	153.910
70	118.200	111.018	94.652	72.569	58.273	53.567	50.496	49.040	48.268	48.285
80	28.907	30.311	30.666	31.627	32.216	32.328	32.205	31.633	31.361	31.147
90	28.957	30.134	30.839	31.148	31.084	30.844	30.774	30.696	31.104	31.376
100	80.249	69.337	61.415	60.445	60.483	61.719	59.479	57.074	53.998	53.590
110	151.028	142.414	123.021	105.495	101.838	92.698	86.783	81.323	78.352	77.100
120	189.589	186.983	170.332	154.675	133.768	122.510	116.230	113.410	107.571	106.641
130	208.657	209.339	196.356	184.932	174.104	166.441	157.742	147.315	136.939	137.224
140	219.353	221.863	219.133	209.058	200.728	195.184	190.313	176.398	173.781	174.522
150	228.295	230.106	229.744	229.158	218.967	211.277	198.111	194.174	194.167	194.843
160	221.049	223.826	222.639	219.377	215.242	212.279	210.651	210.774	210.832	211.156
170	211.945	213.428	214.350	216.132	216.797	217.627	218.700	219.123	219.463	219.292
180	217.184	217.184	217.184	217.184	217.184	217.184	217.184	217.184	217.184	217.184

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	433.60	N.A.	13.00
0-30	903.78	N.A.	27.10
0-40	1436.11	N.A.	43.10
0-60	2246.67	N.A.	67.40
0-80	2447.53	N.A.	73.50
0-90	2481.42	N.A.	74.50
10-90	2368.29	N.A.	71.10
20-40	1002.5	N.A.	30.10
20-50	1486.56	N.A.	44.60
40-70	958.32	N.A.	28.80
60-80	200.86	N.A.	6.00
70-80	53.10	N.A.	1.60
80-90	33.89	N.A.	1.00
90-110	136.97	N.A.	4.10
90-120	257.16	N.A.	7.70
90-130	396.70	N.A.	11.90
90-150	669.11	N.A.	20.10
90-180	850.36	N.A.	25.50
110-180	713.39	N.A.	21.40
0-180	3331.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.13
10-20	320.47
20-30	470.17
30-40	532.33
40-50	484.06
50-60	326.51
60-70	147.76
70-80	53.10
80-90	33.89
90-100	50.17
100-110	86.80
110-120	120.19
120-130	139.54
130-140	143.25
140-150	129.15
150-160	99.23
160-170	61.31
170-180	20.71

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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	104	100	97	94	99	96	93	90	87	85	82	79	77	75	71	70	69	65
2	96	89	84	79	91	85	80	76	78	74	70	71	68	65	64	62	60	57
3	89	80	73	67	84	76	70	65	70	65	61	64	60	57	58	55	53	50
4	82	71	64	58	78	68	62	56	63	57	53	58	53	50	53	49	46	44
5	76	64	56	51	72	62	55	49	57	51	46	52	48	44	48	44	41	38
6	70	58	50	45	67	56	49	43	52	46	41	48	43	39	44	40	37	34
7	65	53	45	40	62	51	44	39	47	41	37	44	39	35	40	36	33	31
8	61	48	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	28
9	57	45	37	32	54	43	36	31	40	34	30	37	32	28	35	30	27	25
10	53	41	34	29	51	40	33	29	37	31	27	35	30	26	32	28	25	23

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UGR TABLE - CORRECTED

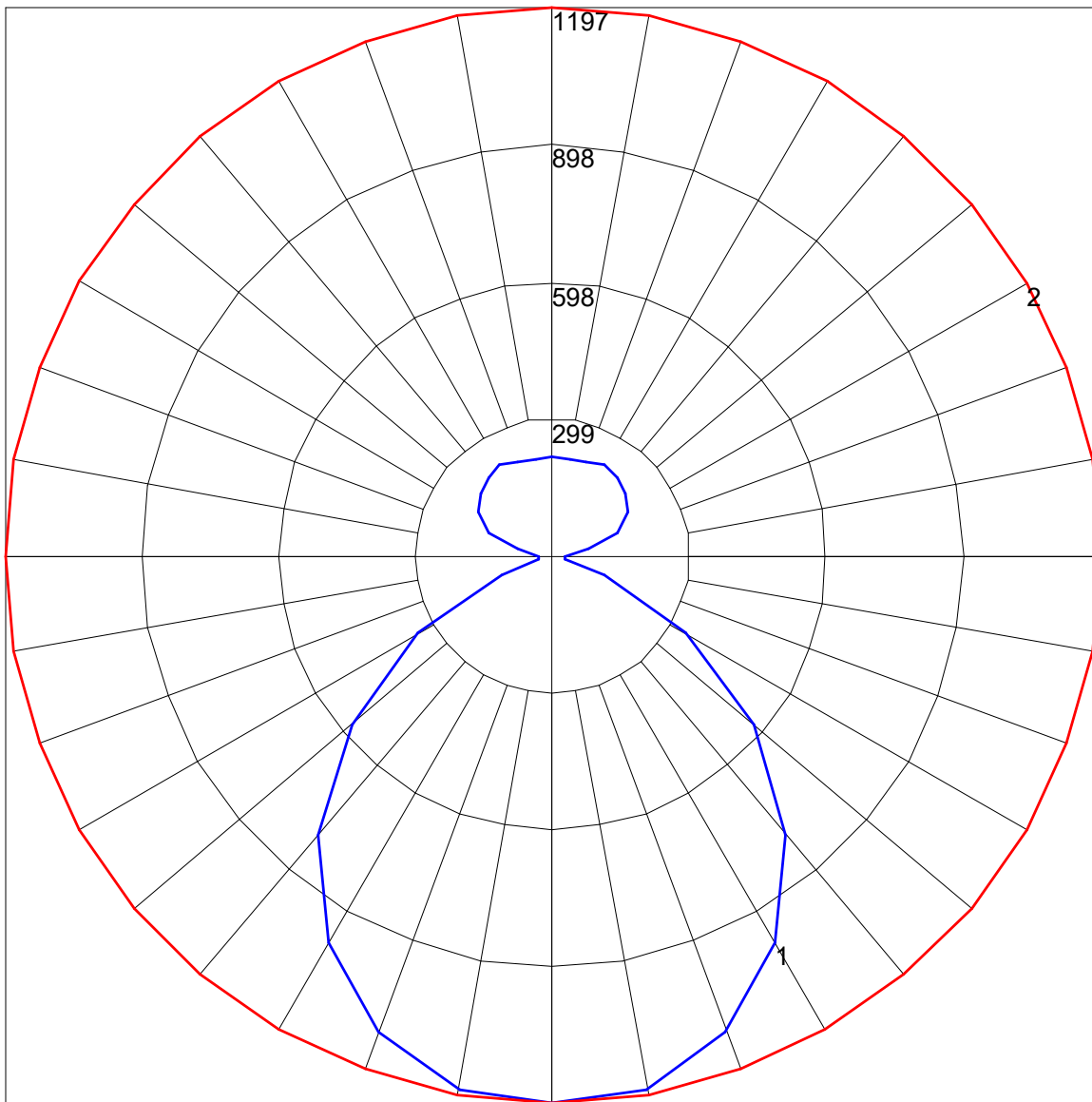
Reflectances

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	13.1	14.1	13.8	14.8	15.7	10.1	11.1	10.8	11.8	12.7
	3H	13.8	14.7	14.6	15.5	16.4	10.4	11.3	11.1	12.1	13.0
	4H	14.0	14.9	14.8	15.6	16.5	10.5	11.4	11.3	12.1	13.1
	6H	14.1	14.9	14.8	15.6	16.6	10.7	11.5	11.5	12.3	13.2
	8H	14.1	14.8	14.9	15.6	16.6	10.8	11.6	11.6	12.4	13.3
	12H	14.1	14.9	14.9	15.6	16.6	11.1	11.8	11.9	12.6	13.5
4H	2H	13.1	13.9	13.8	14.7	15.6	10.4	11.3	11.2	12.0	12.9
	3H	13.8	14.6	14.6	15.4	16.3	10.8	11.5	11.5	12.3	13.2
	4H	14.1	14.8	14.9	15.6	16.5	11.0	11.6	11.8	12.4	13.4
	6H	14.3	14.8	15.1	15.6	16.6	11.3	11.8	12.1	12.6	13.6
	8H	14.3	14.8	15.1	15.7	16.6	11.5	12.0	12.3	12.8	13.8
	12H	14.4	14.9	15.3	15.7	16.7	11.9	12.3	12.7	13.2	14.2
8H	4H	14.1	14.6	14.9	15.4	16.4	11.1	11.6	11.9	12.4	13.4
	6H	14.2	14.7	15.1	15.5	16.5	11.5	11.9	12.3	12.8	13.7
	8H	14.4	14.8	15.2	15.6	16.6	11.8	12.2	12.7	13.1	14.1
	12H	14.6	15.0	15.5	15.8	16.9	12.4	12.8	13.3	13.6	14.7
12H	4H	14.0	14.5	14.8	15.3	16.3	11.0	11.5	11.9	12.3	13.3
	6H	14.2	14.6	15.1	15.5	16.5	11.5	11.9	12.4	12.7	13.8
	8H	14.4	14.8	15.3	15.6	16.6	12.0	12.3	12.8	13.2	14.2

Maximum UGR = 16.9

POLAR GRAPH



Maximum Candela = 1196.876 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.)