



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-4-LED-2080-FB-VHO-30.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-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	3232
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
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	3364	3011	2932
55	2761	2145	1848
65	1879	1132	832
75	988	592	534
85	1154	1261	1247

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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	1160.983	1160.983	1160.983	1160.983	1160.983	1160.983	1160.983	1160.983	1160.983	1160.983
10	1147.955	1145.391	1143.057	1141.737	1140.662	1136.683	1134.299	1131.875	1130.951	1130.484
20	1074.173	1073.177	1071.533	1066.593	1060.000	1051.645	1045.424	1038.368	1034.900	1034.157
30	946.942	945.571	937.123	920.759	911.600	902.674	902.874	899.754	897.476	897.532
40	771.700	765.904	745.976	726.764	716.488	712.286	712.707	716.679	715.490	714.757
50	555.339	546.711	520.958	498.602	480.110	467.291	454.540	446.912	443.934	441.968
60	328.319	315.831	282.437	255.756	227.886	197.379	170.964	155.929	151.616	149.295
70	114.655	107.689	91.814	70.392	56.525	51.961	48.982	47.569	46.821	46.837
80	28.040	29.402	29.746	30.679	31.250	31.358	31.239	30.684	30.420	30.213
90	28.089	29.230	29.914	30.214	30.152	29.919	29.851	29.775	30.171	30.435
100	77.843	67.257	59.573	58.632	58.669	59.868	57.695	55.363	52.378	51.983
110	146.499	138.143	119.331	102.332	98.784	89.918	84.181	78.884	76.003	74.788
120	183.903	181.375	165.224	150.036	129.756	118.836	112.744	110.009	104.345	103.443
130	202.400	203.061	190.468	179.386	168.883	161.449	153.011	142.897	132.832	133.109
140	212.775	215.210	212.562	202.788	194.708	189.331	184.606	171.108	168.569	169.288
150	221.448	223.205	222.854	222.285	212.400	204.941	192.170	188.351	188.344	189.000
160	214.420	217.114	215.962	212.798	208.787	205.912	204.334	204.453	204.509	204.824
170	205.589	207.028	207.921	209.651	210.295	211.101	212.141	212.552	212.881	212.715
180	210.670	210.670	210.670	210.670	210.670	210.670	210.670	210.670	210.670	210.670

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	420.60	N.A.	13.00
0-30	876.67	N.A.	27.10
0-40	1393.04	N.A.	43.10
0-60	2179.29	N.A.	67.40
0-80	2374.13	N.A.	73.50
0-90	2407.00	N.A.	74.50
10-90	2297.27	N.A.	71.10
20-40	972.44	N.A.	30.10
20-50	1441.98	N.A.	44.60
40-70	929.58	N.A.	28.80
60-80	194.84	N.A.	6.00
70-80	51.51	N.A.	1.60
80-90	32.88	N.A.	1.00
90-110	132.86	N.A.	4.10
90-120	249.45	N.A.	7.70
90-130	384.81	N.A.	11.90
90-150	649.04	N.A.	20.10
90-180	824.86	N.A.	25.50
110-180	692.00	N.A.	21.40
0-180	3231.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.74
10-20	310.86
20-30	456.07
30-40	516.37
40-50	469.54
50-60	316.71
60-70	143.33
70-80	51.51
80-90	32.88
90-100	48.66
100-110	84.20
110-120	116.59
120-130	135.36
130-140	138.96
140-150	125.28
150-160	96.26
160-170	59.47
170-180	20.09

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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

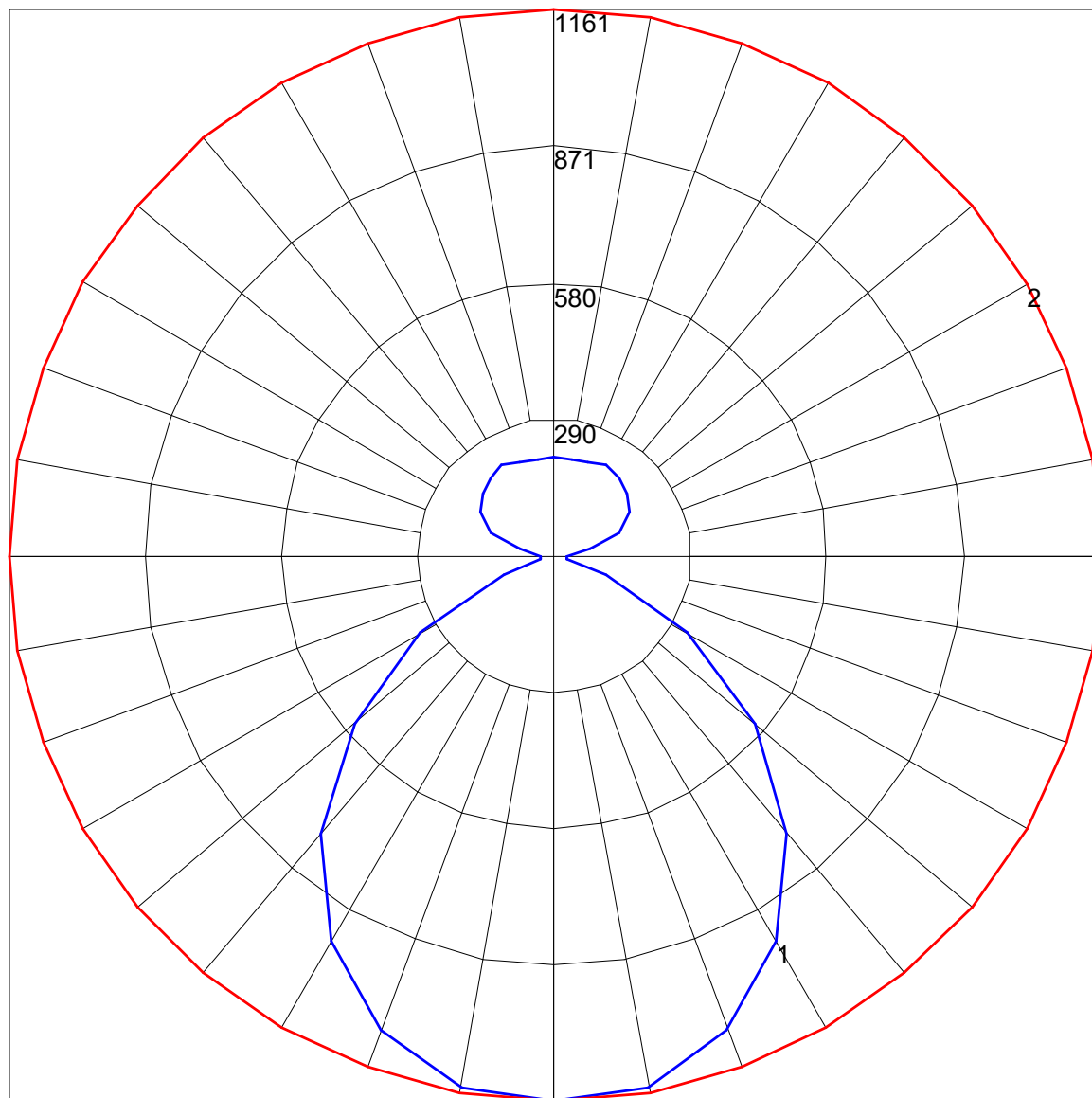
Reflectances

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	13.0	14.0	13.7	14.7	15.6	10.0	11.0	10.7	11.7	12.6
	3H	13.7	14.6	14.5	15.4	16.3	10.3	11.2	11.0	12.0	12.9
	4H	13.9	14.8	14.7	15.5	16.4	10.4	11.3	11.2	12.0	13.0
	6H	14.0	14.8	14.7	15.5	16.5	10.6	11.4	11.4	12.2	13.1
	8H	14.0	14.7	14.8	15.5	16.5	10.7	11.5	11.5	12.3	13.2
	12H	14.0	14.8	14.8	15.5	16.5	11.0	11.7	11.8	12.5	13.4
4H	2H	13.0	13.8	13.7	14.6	15.5	10.3	11.2	11.1	11.9	12.8
	3H	13.7	14.5	14.5	15.3	16.2	10.7	11.4	11.4	12.2	13.1
	4H	14.0	14.7	14.8	15.5	16.4	10.9	11.5	11.7	12.3	13.3
	6H	14.1	14.7	14.9	15.5	16.5	11.2	11.7	12.0	12.5	13.5
	8H	14.2	14.7	15.0	15.5	16.5	11.4	11.9	12.2	12.7	13.7
	12H	14.3	14.8	15.2	15.6	16.6	11.8	12.2	12.6	13.1	14.1
8H	4H	14.0	14.5	14.8	15.3	16.3	11.0	11.5	11.8	12.3	13.3
	6H	14.1	14.6	15.0	15.4	16.4	11.4	11.8	12.2	12.7	13.6
	8H	14.3	14.7	15.1	15.5	16.5	11.7	12.1	12.6	13.0	14.0
	12H	14.5	14.9	15.4	15.7	16.8	12.3	12.7	13.2	13.5	14.6
12H	4H	13.9	14.4	14.7	15.2	16.2	10.9	11.4	11.8	12.2	13.2
	6H	14.1	14.5	15.0	15.4	16.4	11.4	11.8	12.3	12.6	13.7
	8H	14.3	14.7	15.2	15.5	16.5	11.9	12.2	12.7	13.1	14.1

Maximum UGR = 16.8

POLAR GRAPH



Maximum Candela = 1160.983 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.)