



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CURV-8-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-8-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	6464
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	143.8
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)	8.00 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>
<b>0</b>	2321.965	2321.965	2321.965	2321.965	2321.965	2321.965	2321.965	2321.965	2321.965	2321.965
<b>10</b>	2295.910	2290.783	2286.114	2283.475	2281.325	2273.366	2268.599	2263.751	2261.902	2260.967
<b>20</b>	2148.346	2146.354	2143.066	2133.185	2120.000	2103.289	2090.849	2076.736	2069.799	2068.313
<b>30</b>	1893.884	1891.141	1874.245	1841.519	1823.201	1805.347	1805.749	1799.509	1794.951	1795.065
<b>40</b>	1543.400	1531.809	1491.951	1453.527	1432.976	1424.572	1425.414	1433.358	1430.981	1429.514
<b>50</b>	1110.678	1093.422	1041.916	997.205	960.220	934.583	909.081	893.823	887.868	883.936
<b>60</b>	656.638	631.663	564.873	511.512	455.772	394.757	341.928	311.858	303.233	298.589
<b>70</b>	229.310	215.377	183.628	140.785	113.050	103.921	97.964	95.138	93.641	93.675
<b>80</b>	56.081	58.804	59.493	61.358	62.500	62.716	62.478	61.369	60.840	60.425
<b>90</b>	56.178	58.461	59.827	60.428	60.303	59.839	59.703	59.551	60.342	60.871
<b>100</b>	155.685	134.514	119.146	117.264	117.339	119.735	115.391	110.726	104.757	103.965
<b>110</b>	292.997	276.287	238.662	204.663	197.568	179.837	168.361	157.769	152.005	149.576
<b>120</b>	367.806	362.750	330.447	300.073	259.512	237.672	225.488	220.018	208.689	206.885
<b>130</b>	404.799	406.122	380.936	358.771	337.766	322.898	306.022	285.794	265.664	266.217
<b>140</b>	425.550	430.420	425.123	405.577	389.417	378.661	369.211	342.216	337.138	338.577
<b>150</b>	442.897	446.411	445.708	444.571	424.800	409.882	384.339	376.702	376.688	378.000
<b>160</b>	428.840	434.227	431.925	425.597	417.575	411.825	408.667	408.905	409.019	409.647
<b>170</b>	411.177	414.055	415.843	419.301	420.591	422.201	424.282	425.104	425.763	425.431
<b>180</b>	421.341	421.341	421.341	421.341	421.341	421.341	421.341	421.341	421.341	421.341

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	841.20	N.A.	13.00
0-30	1753.34	N.A.	27.10
0-40	2786.07	N.A.	43.10
0-60	4358.58	N.A.	67.40
0-80	4748.25	N.A.	73.50
0-90	4814.01	N.A.	74.50
10-90	4594.54	N.A.	71.10
20-40	1944.88	N.A.	30.10
20-50	2883.95	N.A.	44.60
40-70	1859.16	N.A.	28.80
60-80	389.67	N.A.	6.00
70-80	103.02	N.A.	1.60
80-90	65.75	N.A.	1.00
90-110	265.72	N.A.	4.10
90-120	498.90	N.A.	7.70
90-130	769.62	N.A.	11.90
90-150	1298.09	N.A.	20.10
90-180	1649.72	N.A.	25.50
110-180	1384.00	N.A.	21.40
0-180	6463.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	219.47
10-20	621.73
20-30	912.15
30-40	1032.73
40-50	939.08
50-60	633.43
60-70	286.66
70-80	103.02
80-90	65.75
90-100	97.33
100-110	168.39
110-120	233.18
120-130	270.72
130-140	277.91
140-150	250.56
150-160	192.51
160-170	118.94
170-180	40.18

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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**

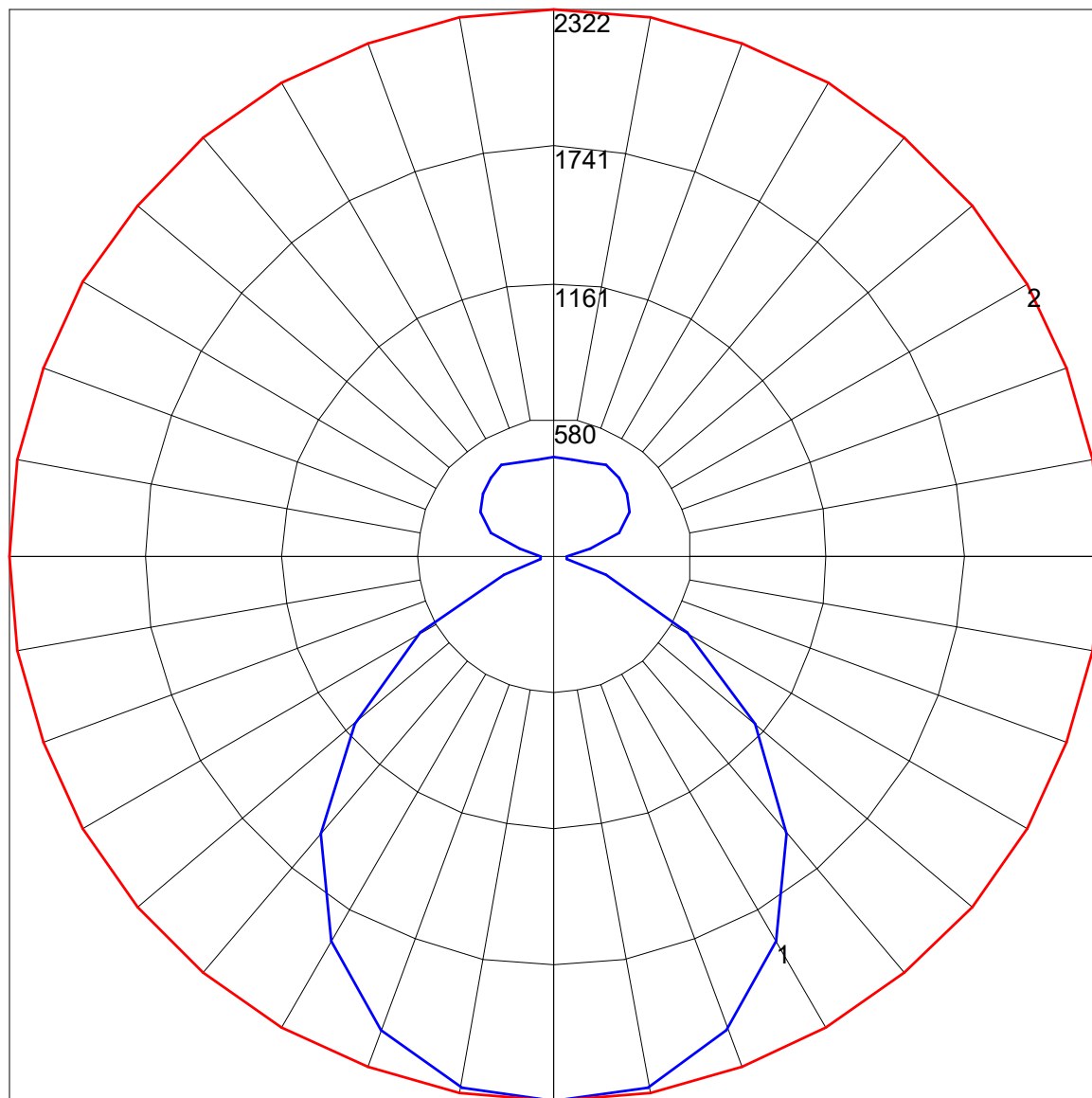
Reflectances

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	14.4	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	12.9
	6H	14.0	14.8	14.7	15.5	16.5	10.6	11.4	11.4	12.1	13.1
	8H	14.0	14.7	14.8	15.5	16.4	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	11.7	12.5	13.4
4H	2H	13.0	13.8	13.7	14.6	15.5	10.3	11.2	11.0	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	14.0
8H	4H	14.0	14.5	14.8	15.3	16.3	10.9	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	14.6	15.1	15.5	16.5	11.9	12.2	12.7	13.0	14.1

Maximum UGR = 16.8

POLAR GRAPH



Maximum Candela = 2321.965 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.)