



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-6040-FL-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 VHO NW 60 40_Scaled
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-03-2017
 [LUMCAT] CURV-8-LED-6040-FL-VHO-35
 [MANUFAC] LSI INDUSTRIES, INC.
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15030
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	144
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)	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	4219	3760	2986
55	4065	3735	2986
65	3678	3545	2946
75	3171	3309	2924
85	4283	4708	4312

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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	1571.904	1571.904	1571.904	1571.904	1571.904	1571.904	1571.904	1571.904	1571.904	1571.904
10	1663.194	1663.194	1651.783	1637.519	1617.549	1597.579	1577.609	1563.345	1551.934	1543.376
20	1817.246	1811.541	1785.865	1745.926	1688.869	1637.519	1586.168	1546.228	1514.847	1497.730
30	1902.831	1897.125	1857.186	1800.129	1725.956	1648.930	1557.640	1486.319	1437.821	1412.146
40	1814.393	1808.688	1777.307	1720.250	1646.077	1554.787	1454.938	1366.501	1303.739	1278.063
50	1514.847	1514.847	1497.730	1463.497	1406.440	1326.561	1246.682	1169.656	1104.041	1078.366
60	1086.924	1092.630	1089.777	1075.513	1046.985	1001.340	947.136	895.785	847.288	833.023
70	647.590	656.149	659.001	661.854	656.149	639.032	616.209	584.828	562.006	556.300
80	268.165	276.724	288.135	299.546	308.105	308.105	305.252	299.546	290.988	288.135
90	148.347	148.347	154.052	151.199	151.199	148.347	145.494	142.641	139.788	131.230
100	524.919	536.330	587.681	587.681	550.594	522.066	493.538	465.010	419.365	385.131
110	1566.198	1546.228	1529.111	1494.878	1420.704	1337.973	1212.448	1021.310	838.729	738.880
120	2162.437	2142.468	2102.528	2022.649	1914.242	1763.043	1580.462	1346.531	1155.392	1055.543
130	2379.252	2370.693	2302.226	2222.347	2102.528	1931.359	1734.515	1583.315	1409.293	1329.414
140	2353.576	2353.576	2293.667	2216.641	2116.792	1988.415	1868.597	1723.103	1600.432	1546.228
150	2225.200	2230.905	2213.788	2159.585	2111.087	2025.502	1914.242	1800.129	1720.250	1688.869
160	2119.645	2102.528	2102.528	2076.853	2025.502	1968.446	1902.831	1848.627	1820.099	1800.129
170	1939.918	1934.212	1934.212	1928.506	1922.801	1914.242	1899.978	1894.272	1882.861	1871.450
180	1860.039	1860.039	1860.039	1860.039	1860.039	1860.039	1860.039	1860.039	1860.039	1860.039

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	615.32	N.A.	4.10
0-30	1387.87	N.A.	9.20
0-40	2408.6	N.A.	16.00
0-60	4581.86	N.A.	30.50
0-80	5873.95	N.A.	39.10
0-90	6114.92	N.A.	40.70
10-90	5963.19	N.A.	39.70
20-40	1793.27	N.A.	11.90
20-50	2920.72	N.A.	19.40
40-70	2978.03	N.A.	19.80
60-80	1292.1	N.A.	8.60
70-80	487.33	N.A.	3.20
80-90	240.97	N.A.	1.60
90-110	1310.37	N.A.	8.70
90-120	2809.78	N.A.	18.70
90-130	4461.9	N.A.	29.70
90-150	7259.42	N.A.	48.30
90-180	8915.24	N.A.	59.30
110-180	7604.87	N.A.	50.60
0-180	15030.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.73
10-20	463.60
20-30	772.55
30-40	1020.72
40-50	1127.45
50-60	1045.81
60-70	804.77
70-80	487.33
80-90	240.97
90-100	359.94
100-110	950.43
110-120	1499.42
120-130	1652.12
130-140	1532.62
140-150	1264.9
150-160	924.18
160-170	551.56
170-180	180.08

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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	95	91	87	83	86	83	79	76	68	65	63	54	52	51	41	40	39	33
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32	27
3	78	69	61	55	71	63	56	51	51	47	43	41	38	35	31	29	27	22
4	71	60	52	46	65	55	48	43	45	40	36	36	32	29	28	25	23	19
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	25	22	20	16
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17	14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	18	15	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

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UGR TABLE - CORRECTED

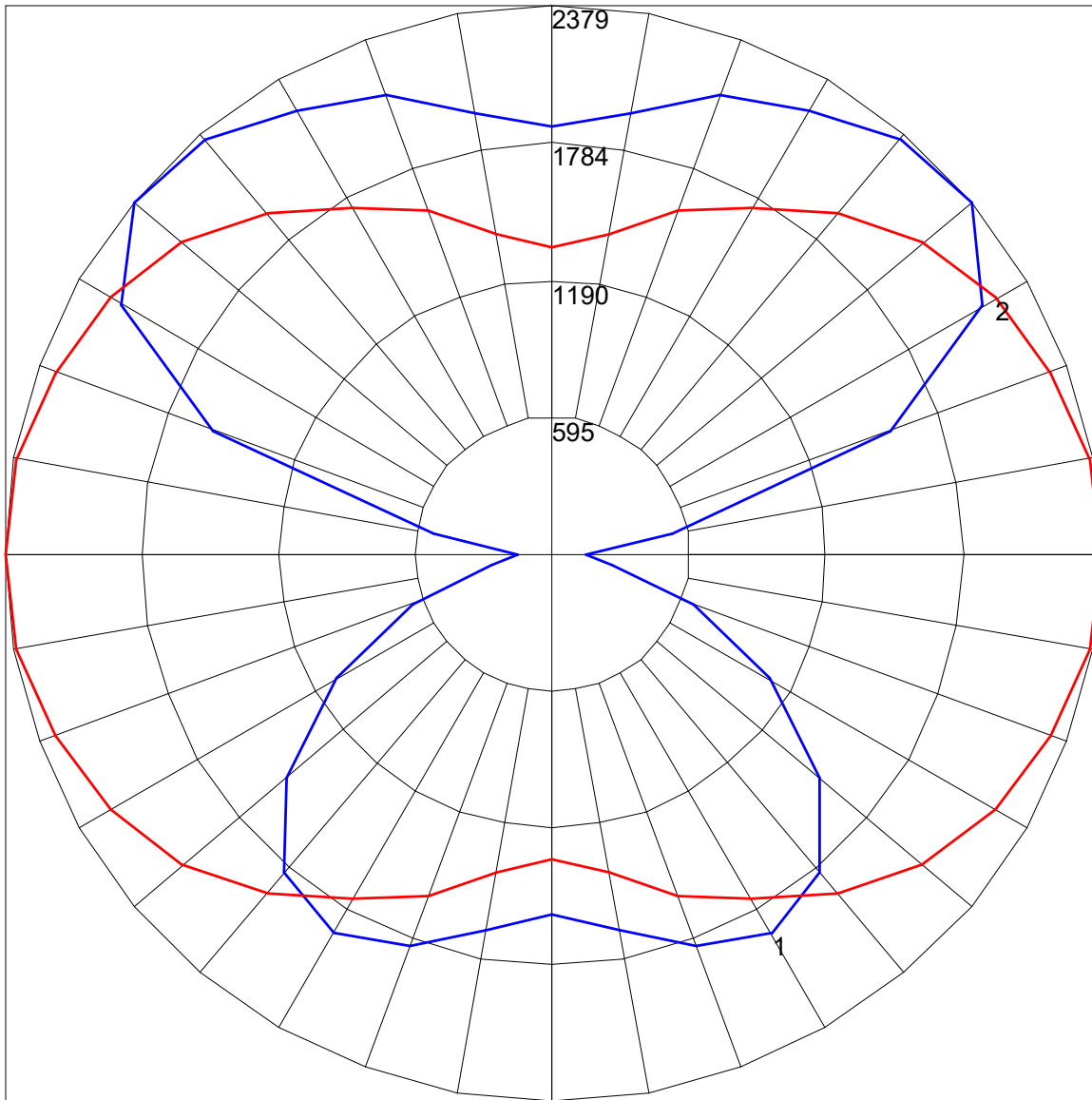
Reflectances

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	12.8	13.6	13.8	14.6	16.0	11.3	12.1	12.3	13.1	14.5
	3H	14.5	15.2	15.5	16.2	17.7	13.1	13.8	14.1	14.9	16.3
	4H	15.1	15.8	16.1	16.8	18.2	13.8	14.5	14.9	15.6	17.0
	6H	15.5	16.2	16.6	17.2	18.6	14.5	15.1	15.5	16.2	17.6
	8H	15.7	16.3	16.8	17.4	18.8	14.8	15.4	15.8	16.5	17.9
	12H	15.9	16.5	17.0	17.6	19.0	15.1	15.7	16.2	16.8	18.2
4H	2H	13.3	14.0	14.3	15.0	16.4	12.1	12.8	13.1	13.8	15.2
	3H	15.2	15.8	16.2	16.8	18.3	14.1	14.7	15.2	15.8	17.2
	4H	15.9	16.5	17.0	17.5	19.0	15.0	15.5	16.1	16.6	18.1
	6H	16.5	17.0	17.6	18.1	19.5	15.8	16.2	16.8	17.3	18.8
	8H	16.8	17.2	17.9	18.3	19.8	16.1	16.6	17.2	17.7	19.1
	12H	17.1	17.5	18.2	18.6	20.1	16.5	16.9	17.6	18.0	19.5
8H	4H	16.2	16.6	17.3	17.7	19.2	15.4	15.8	16.5	16.9	18.4
	6H	17.0	17.3	18.1	18.4	19.9	16.3	16.7	17.4	17.8	19.3
	8H	17.4	17.7	18.5	18.8	20.3	16.9	17.2	18.0	18.3	19.8
	12H	17.8	18.1	18.9	19.2	20.7	17.4	17.7	18.5	18.8	20.3
12H	4H	16.2	16.6	17.3	17.7	19.2	15.4	15.8	16.5	16.9	18.4
	6H	17.0	17.4	18.1	18.5	20.0	16.4	16.8	17.5	17.9	19.4
	8H	17.5	17.8	18.6	18.9	20.4	17.0	17.3	18.1	18.4	19.9

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 2379.252 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)