



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-5050-FL-VHO-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L450 VHO NW 50 50_Scaled
 [TESTLAB] Dekko
 [ISSUE DATE] 6/29/2017
 [TEST DATE] 04-03-2017
 [LUMCAT] CURV-8-LED-5050-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	14164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	4703	4215	3449
55	4550	4185	3405
65	4107	3935	3297
75	3526	3590	3141
85	4429	4781	4429

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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	1874.119	1874.119	1874.119	1874.119	1874.119	1874.119	1874.119	1874.119	1874.119	1874.119
10	1942.580	1939.727	1925.465	1914.054	1894.087	1879.824	1865.561	1851.298	1845.593	1842.741
20	2053.829	2045.271	2019.598	1985.368	1942.580	1891.234	1848.446	1811.363	1785.690	1777.132
30	2125.142	2116.585	2082.354	2025.303	1953.990	1868.414	1788.543	1720.082	1677.294	1660.178
40	2019.598	2011.041	1979.663	1922.612	1842.741	1745.754	1651.621	1566.044	1506.141	1483.321
50	1691.556	1688.704	1671.588	1631.653	1568.897	1494.731	1409.155	1320.726	1260.823	1238.002
60	1220.887	1223.740	1218.035	1203.772	1169.541	1123.901	1066.850	1004.094	958.453	941.338
70	715.988	718.840	730.250	727.398	721.693	696.020	678.905	647.527	621.854	613.296
80	302.369	310.927	316.632	325.190	328.042	328.042	322.337	313.779	299.517	293.812
90	128.364	131.217	134.069	136.922	136.922	136.922	136.922	136.922	136.922	136.922
100	513.457	536.278	559.098	559.098	533.425	490.637	450.701	416.471	379.388	353.715
110	1283.643	1263.675	1275.085	1255.118	1200.919	1123.901	1012.652	884.287	744.513	673.199
120	1665.883	1657.326	1643.063	1608.833	1534.667	1431.975	1292.201	1129.606	1001.242	938.486
130	1814.215	1825.626	1794.248	1754.312	1668.736	1540.372	1414.860	1315.021	1203.772	1146.721
140	1799.953	1817.068	1777.132	1731.492	1682.999	1594.570	1517.551	1420.565	1334.989	1303.611
150	1725.787	1734.344	1717.229	1685.851	1654.473	1611.685	1560.339	1500.436	1446.238	1426.270
160	1651.621	1654.473	1663.031	1640.211	1614.538	1588.865	1554.634	1520.404	1506.141	1491.878
170	1557.487	1554.634	1557.487	1557.487	1554.634	1546.077	1540.372	1537.519	1528.961	1526.109
180	1523.256	1523.256	1523.256	1523.256	1523.256	1523.256	1523.256	1523.256	1523.256	1523.256

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	719.07	N.A.	5.10
0-30	1602.89	N.A.	11.30
0-40	2758.16	N.A.	19.50
0-60	5201.19	N.A.	36.70
0-80	6629.54	N.A.	46.80
0-90	6875.76	N.A.	48.50
10-90	6696.12	N.A.	47.30
20-40	2039.09	N.A.	14.40
20-50	3307.81	N.A.	23.40
40-70	3339.51	N.A.	23.60
60-80	1428.35	N.A.	10.10
70-80	531.88	N.A.	3.80
80-90	246.22	N.A.	1.70
90-110	1166.65	N.A.	8.20
90-120	2398.58	N.A.	16.90
90-130	3724.31	N.A.	26.30
90-150	5956.44	N.A.	42.10
90-180	7288.17	N.A.	51.50
110-180	6121.52	N.A.	43.20
0-180	14163.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.64
10-20	539.43
20-30	883.82
30-40	1155.27
40-50	1268.72
50-60	1174.31
60-70	896.48
70-80	531.88
80-90	246.22
90-100	338.12
100-110	828.54
110-120	1231.93
120-130	1325.73
130-140	1223.00
140-150	1009.12
150-160	740.60
160-170	444.62
170-180	146.52

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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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	40
2	88	80	74	68	80	74	68	64	62	58	54	51	48	46	41	39	37	32
3	80	70	62	56	73	65	58	53	54	49	45	45	41	38	36	33	31	27
4	73	62	53	47	67	57	50	44	48	42	38	40	36	32	32	29	26	23
5	67	55	46	40	61	51	43	38	43	37	33	35	31	28	29	25	23	19
6	61	49	40	35	56	45	38	32	38	32	28	32	27	24	26	22	20	17
7	56	44	36	30	52	41	33	28	35	29	25	29	24	21	23	20	17	15
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	15	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	16	20	16	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12	10

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UGR TABLE - CORRECTED

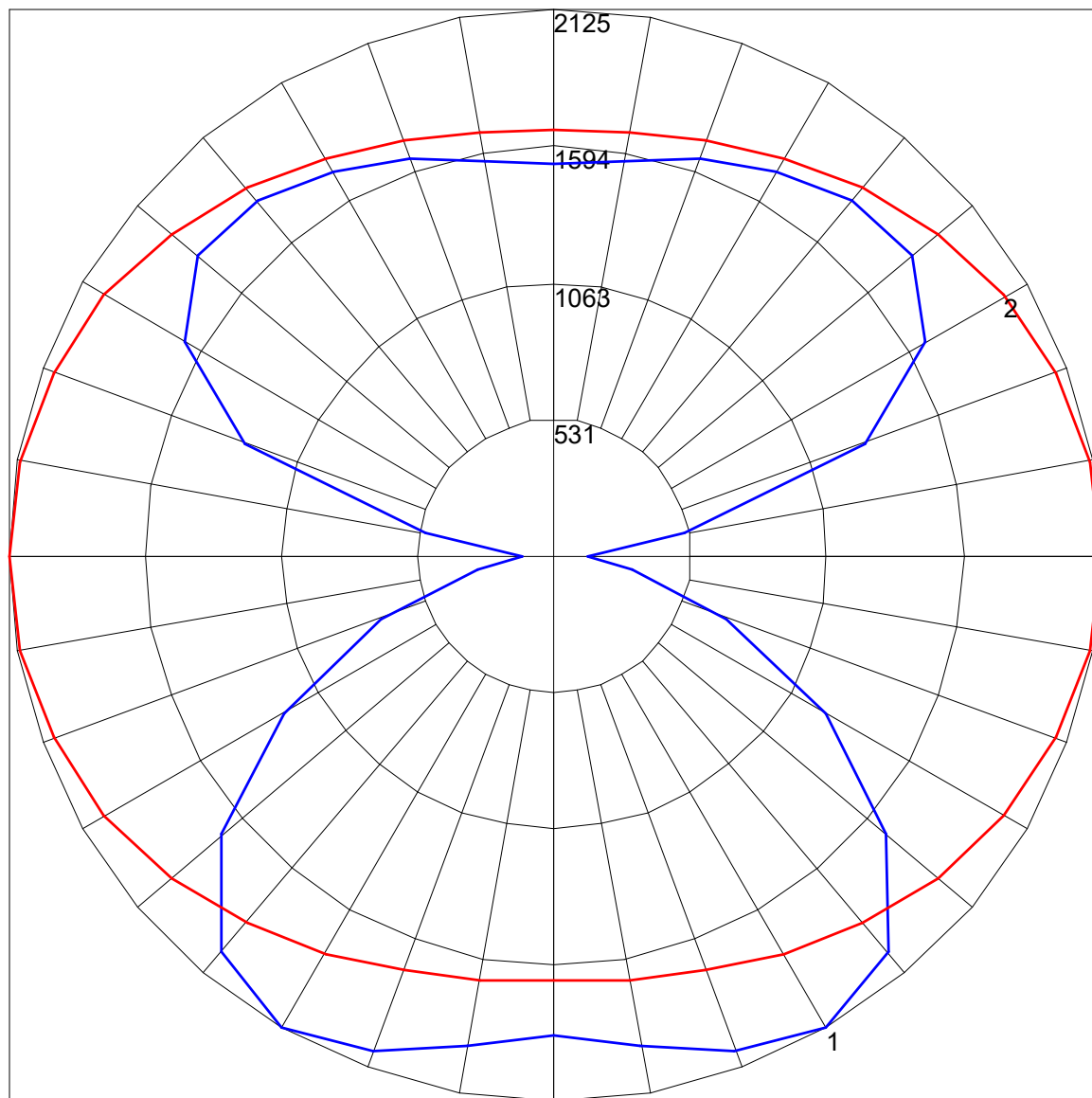
Reflectances

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	14.0	14.8	14.9	15.8	17.1	12.5	13.4	13.4	14.3	15.6
	3H	15.6	16.4	16.6	17.4	18.7	14.3	15.1	15.2	16.0	17.3
	4H	16.2	17.0	17.2	18.0	19.3	15.0	15.7	16.0	16.7	18.0
	6H	16.6	17.3	17.6	18.3	19.7	15.5	16.2	16.5	17.2	18.6
	8H	16.8	17.5	17.8	18.5	19.8	15.8	16.5	16.8	17.5	18.8
	12H	17.0	17.7	18.1	18.7	20.0	16.1	16.7	17.1	17.7	19.1
4H	2H	14.4	15.2	15.4	16.2	17.5	13.3	14.0	14.3	15.0	16.3
	3H	16.3	16.9	17.3	17.9	19.3	15.3	15.9	16.3	16.9	18.2
	4H	17.1	17.6	18.1	18.7	20.0	16.1	16.7	17.1	17.7	19.1
	6H	17.7	18.2	18.7	19.2	20.5	16.8	17.3	17.8	18.3	19.7
	8H	17.9	18.4	18.9	19.4	20.8	17.1	17.6	18.1	18.6	20.0
	12H	18.2	18.6	19.2	19.7	21.0	17.5	17.9	18.5	19.0	20.3
8H	4H	17.3	17.8	18.3	18.8	20.2	16.5	17.0	17.5	18.0	19.4
	6H	18.1	18.5	19.1	19.5	20.9	17.4	17.7	18.4	18.8	20.2
	8H	18.4	18.8	19.5	19.8	21.2	17.8	18.2	18.9	19.2	20.6
	12H	18.9	19.2	19.9	20.2	21.7	18.3	18.6	19.4	19.7	21.1
12H	4H	17.3	17.7	18.4	18.8	20.2	16.5	16.9	17.6	18.0	19.4
	6H	18.1	18.5	19.2	19.5	20.9	17.4	17.8	18.5	18.9	20.3
	8H	18.6	18.9	19.6	19.9	21.4	18.0	18.3	19.0	19.3	20.8

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 2125.142 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)