IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-5050-FL-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L450 VHO NW 50 50
[TESTLAB] Dekko
[ISSUEDATE] 6/29/2017
[TESTDATE] 04-03-2017
[LUMCAT] CURV-8-LED-5050-FL-VHO-40
[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	14648
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	143.8
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	4864	4359	3567
55	4706	4328	3521
65	4247	4069	3409
75	3646	3713	3248
85	4580	4944	4580

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CURV-8-LED-5050-FL-VHO-40.IES

CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0	1938.15	1938.15	1938.15	1938.15	1938.15	1938.15	1938.15	1938.15	1938.15	1938.15
10	2008.95	2006.00	1991.25	1979.45	1958.80	1944.05	1929.30	1914.55	1908.65	1905.70
20	2124.00	2115.15	2088.60	2053.20	2008.95	1955.85	1911.60	1873.25	1846.70	1837.85
30	2197.75	2188.90	2153.50	2094.50	2020.75	1932.25	1849.65	1778.85	1734.60	1716.90
40	2088.60	2079.75	2047.30	1988.30	1905.70	1805.40	1708.05	1619.55	1557.60	1534.00
50	1749.35	1746.40	1728.70	1687.40	1622.50	1545.80	1457.30	1365.85	1303.90	1280.30
60	1262.60	1265.55	1259.65	1244.90	1209.50	1162.30	1103.30	1038.40	991.20	973.50
70	740.45	743.40	755.20	752.25	746.35	719.80	702.10	669.65	643.10	634.25
80	312.70	321.55	327.45	336.30	339.25	339.25	333.35	324.50	309.75	303.85
90	132.75	135.70	138.65	141.60	141.60	141.60	141.60	141.60	141.60	141.60
100	531.00	554.60	578.20	578.20	551.65	507.40	466.10	430.70	392.35	365.80
110	1327.50	1306.85	1318.65	1298.00	1241.95	1162.30	1047.25	914.50	769.95	696.20
120	1722.80	1713.95	1699.20	1663.80	1587.10	1480.90	1336.35	1168.20	1035.45	970.55
130	1876.20	1888.00	1855.55	1814.25	1725.75	1593.00	1463.20	1359.95	1244.90	1185.90
140	1861.45	1879.15	1837.85	1790.65	1740.50	1649.05	1569.40	1469.10	1380.60	1348.15
150	1784.75	1793.60	1775.90	1743.45	1711.00	1666.75	1613.65	1551.70	1495.65	1475.00
160	1708.05	1711.00	1719.85	1696.25	1669.70	1643.15	1607.75	1572.35	1557.60	1542.85
170	1610.70	1607.75	1610.70	1610.70	1607.75	1598.90	1593.00	1590.05	1581.20	1578.25
180	1575.30	1575.30	1575.30	1575.30	1575.30	1575.30	1575.30	1575.30	1575.30	1575.30

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PHOTOMETRIC FILENAME : CURV-8-LED-5050-FL-VHO-40.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	743.64	N.A.	5.10
0-30	1657.66	N.A.	11.30
0-40	2852.4	N.A.	19.50
0-60	5378.9	N.A.	36.70
0-80	6856.05	N.A.	46.80
0-90	7110.68	N.A.	48.50
10-90	6924.9	N.A.	47.30
20-40	2108.76	N.A.	14.40
20-50	3420.82	N.A.	23.40
40-70	3453.61	N.A.	23.60
60-80	1477.16	N.A.	10.10
70-80	550.05	N.A.	3.80
80-90	254.63	N.A.	1.70
90-110	1206.51	N.A.	8.20
90-120	2480.53	N.A.	16.90
90-130	3851.56	N.A.	26.30
90-150	6159.95	N.A.	42.10
90-180	7537.18	N.A.	51.50
110-180	6330.67	N.A.	43.20
0-180	14647.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.78
10-20	557.86
20-30	914.02
30-40	1194.74
40-50	1312.07
50-60	1214.43
60-70	927.11
70-80	550.05
80-90	254.63
90-100	349.67
100-110	856.84
110-120	1274.02
120-130	1371.03
130-140	1264.79
140-150	1043.6
150-160	765.90
160-170	459.81
170-180	151.52

IES INDOOR REPORT
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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	14.1	14.9	15.0	15.9	17.2	12.6	13.5	13.5	14.4	15.7
	3H	15.7	16.5	16.7	17.5	18.8	14.4	15.2	15.3	16.1	17.4
	4H	16.3	17.1	17.3	18.1	19.4	15.1	15.8	16.1	16.8	18.1
	6H	16.7	17.4	17.7	18.4	19.8	15.6	16.3	16.6	17.3	18.7
	8H	16.9	17.6	17.9	18.6	19.9	15.9	16.6	16.9	17.6	18.9
	12H	17.1	17.8	18.2	18.8	20.1	16.2	16.8	17.2	17.8	19.2
4H	2H	14.5	15.3	15.5	16.3	17.6	13.4	14.1	14.4	15.1	16.4
	3H	16.4	17.0	17.4	18.1	19.4	15.4	16.0	16.4	17.0	18.3
	4H	17.2	17.7	18.2	18.8	20.1	16.2	16.8	17.2	17.8	19.2
	6H	17.8	18.3	18.8	19.3	20.6	16.9	17.4	17.9	18.4	19.8
	8H	18.0	18.5	19.0	19.5	20.9	17.2	17.7	18.2	18.7	20.1
	12H	18.3	18.7	19.3	19.8	21.1	17.6	18.0	18.6	19.1	20.4
8H	4H	17.4	17.9	18.4	18.9	20.3	16.6	17.1	17.6	18.1	19.5
	6H	18.2	18.6	19.2	19.6	21.0	17.5	17.8	18.5	18.9	20.3
	8H	18.5	18.9	19.6	19.9	21.3	17.9	18.3	19.0	19.3	20.7
	12H	19.0	19.3	20.0	20.3	21.8	18.4	18.7	19.5	19.8	21.2
12H	4H	17.4	17.8	18.5	18.9	20.3	16.6	17.0	17.7	18.1	19.5
	6H	18.2	18.6	19.3	19.6	21.0	17.5	17.9	18.6	19.0	20.4
	8H	18.7	19.0	19.7	20.0	21.5	18.1	18.4	19.1	19.4	20.9

Maximum UGR = 21.8

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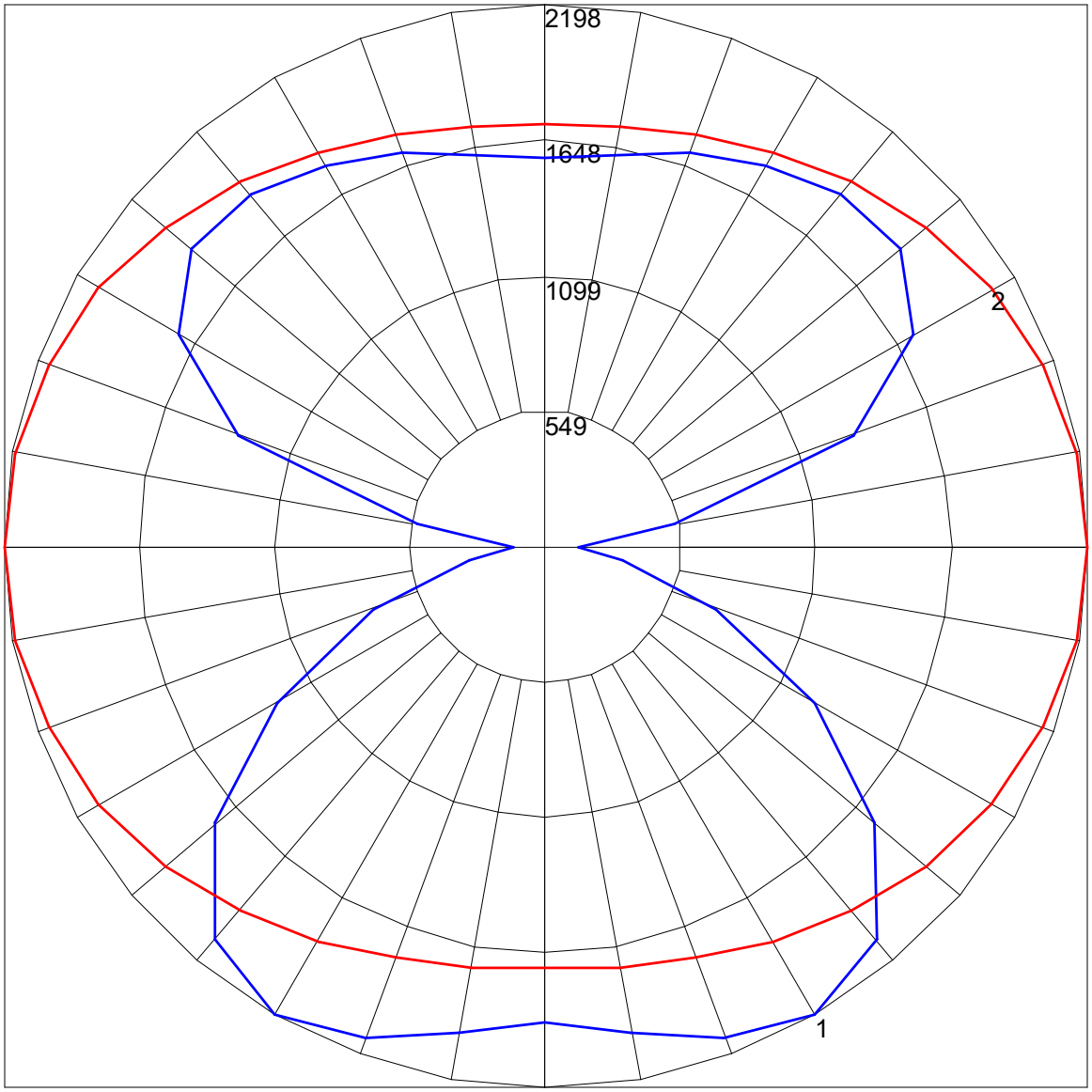
PHOTOMETRIC FILENAME : CURV-8-LED-5050-FL-VHO-40.IES

POLAR GRAPH



Maximum Candela = 2197.75 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.)