



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]  
 [ISSUE DATE] 2017-5-17 15:37  
 [MANUFAC]  
 [LUMCAT]  
 [LUMINAIRE] CPYRA12-LED60DMVxx50  
 [LAMPCAT] L130-5070-Qμμ  
 [LAMP] DIM70W12S-1580  
 [VOLTAGE] 119.6 V  
 [CURRENT] 0.500 A  
 [POWERFACTOR] 0.993  
 [TESTLAB]  
 [TESTINST] GPM-1800B  
 [TESTDIST] 11.672 m

**CHARACTERISTICS**

Lumens Per Lamp	7607.6 (1 lamp)
Total Lamp Lumens	7607.6
Luminaire Lumens	7608
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	59.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.40
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	2075.79	2071.08	2070.80	2072.53	2070.24	2063.95	2075.79	2071.08	2070.80	2072.53
1	2075.60	2076.72	2070.90	2067.73	2065.58	2064.05	2077.51	2071.32	2070.99	2072.15
2	2075.51	2076.77	2070.29	2067.73	2064.98	2064.75	2077.23	2071.83	2070.80	2072.20
3	2074.81	2075.88	2068.99	2066.84	2063.91	2064.05	2076.67	2071.27	2070.52	2071.55
4	2073.37	2073.79	2070.99	2065.35	2062.70	2062.28	2076.12	2073.60	2070.24	2066.28
5	2069.03	2071.04	2067.59	2062.18	2060.04	2060.18	2070.06	2072.62	2069.27	2065.31
6	2065.40	2062.23	2064.00	2058.64	2056.68	2056.92	2067.54	2070.66	2069.78	2063.21
7	2061.25	2057.85	2059.71	2053.52	2054.31	2057.24	2063.81	2066.94	2066.56	2060.23
8	2055.89	2053.47	2054.82	2048.39	2049.79	2052.86	2059.62	2062.60	2062.18	2056.22
9	2050.86	2048.30	2043.78	2043.31	2045.32	2048.58	2055.24	2059.20	2057.57	2052.49
10	2048.67	2043.73	2038.70	2038.14	2040.98	2044.20	2054.31	2054.82	2052.91	2047.41
11	2043.64	2037.30	2033.39	2037.95	2035.72	2033.15	2050.02	2049.88	2047.74	2042.33
12	2038.98	2032.73	2028.40	2034.23	2032.18	2029.01	2045.46	2045.41	2038.84	2036.88
13	2034.27	2027.89	2024.44	2029.99	2027.94	2024.72	2041.17	2040.98	2033.90	2032.08
14	2030.36	2024.02	2022.90	2026.44	2023.60	2020.43	2037.39	2031.90	2029.15	2028.45
15	2021.32	2023.23	2018.85	2022.90	2019.64	2016.10	2030.40	2027.89	2024.67	2023.74
16	2017.08	2019.36	2014.05	2018.99	2013.12	2011.30	2026.40	2024.07	2020.43	2019.59
17	2012.47	2015.21	2009.25	2008.64	2009.16	2009.44	2022.48	2020.15	2016.01	2015.31
18	2007.25	2010.60	2004.50	2004.68	2005.34	2004.26	2018.48	2018.48	2010.88	2008.60
19	2003.01	2006.32	2002.07	2001.19	2001.24	1999.79	2013.40	2014.33	2006.59	2004.26
20	2000.16	2002.31	1998.16	1997.83	1997.88	1995.69	2009.16	2010.28	2002.59	1999.88
21	1995.92	1993.87	1994.48	1995.60	1996.90	1993.31	2005.38	2006.32	1998.81	1996.02
22	1991.36	1989.91	1990.75	1991.40	1992.76	1989.49	2001.47	2002.17	1994.34	1991.45
23	1986.42	1985.86	1980.92	1986.93	1988.14	1984.79	1997.18	1997.65	1989.96	1986.37
24	1981.67	1982.50	1976.31	1982.60	1983.30	1975.10	1995.32	1993.13	1985.35	1981.71
25	1975.98	1977.01	1971.14	1980.22	1974.77	1969.69	1990.24	1988.28	1978.73	1975.70
26	1969.83	1970.62	1965.68	1974.77	1968.95	1963.40	1984.79	1982.92	1973.09	1969.97
27	1963.49	1964.10	1963.77	1968.81	1963.03	1956.88	1978.45	1977.19	1966.85	1964.61
28	1952.87	1957.30	1956.08	1962.19	1955.81	1948.96	1966.06	1968.85	1960.00	1957.76
29	1944.53	1949.42	1947.56	1954.73	1947.74	1940.34	1958.37	1961.58	1951.38	1950.35
30	1936.37	1941.69	1938.43	1940.15	1940.24	1932.13	1949.56	1952.78	1942.43	1942.01
31	1926.17	1932.09	1926.17	1930.69	1930.18	1921.65	1939.87	1943.22	1932.74	1931.02
32	1917.64	1921.32	1915.36	1920.58	1919.51	1910.89	1932.41	1932.83	1922.30	1921.05
33	1906.04	1906.65	1903.39	1909.02	1904.97	1898.77	1920.86	1921.65	1911.03	1909.91
34	1893.41	1893.74	1890.34	1897.89	1892.48	1885.21	1908.56	1909.63	1898.17	1897.70
35	1879.48	1879.99	1876.41	1883.95	1878.74	1871.61	1895.28	1895.88	1884.51	1881.16
36	1861.17	1865.22	1857.26	1869.00	1864.01	1856.79	1880.74	1882.00	1870.12	1866.57
37	1845.37	1848.64	1840.62	1851.76	1847.42	1837.08	1862.52	1867.18	1854.69	1851.29
38	1827.71	1831.07	1822.59	1834.70	1830.28	1819.84	1846.07	1850.87	1836.29	1834.94
39	1809.22	1812.52	1806.19	1816.53	1812.48	1801.57	1828.18	1833.54	1818.16	1816.95
40	1789.97	1792.49	1785.54	1796.59	1793.00	1782.19	1809.59	1813.50	1798.82	1799.62
41	1767.23	1771.85	1764.44	1776.65	1773.48	1761.55	1786.94	1794.30	1775.25	1780.09
42	1745.99	1749.01	1742.44	1755.35	1752.97	1740.77	1766.67	1774.41	1754.14	1759.50
43	1723.53	1726.51	1719.47	1729.12	1727.35	1716.58	1745.61	1753.39	1732.10	1734.66
44	1700.88	1704.05	1690.49	1706.84	1705.26	1693.75	1723.48	1727.72	1708.85	1712.34
45	1677.63	1680.70	1665.79	1683.73	1682.01	1669.71	1701.77	1704.98	1684.81	1689.19
46	1652.00	1653.87	1640.12	1658.34	1657.59	1643.01	1678.10	1681.64	1660.02	1665.61
47	1626.84	1628.61	1613.42	1633.08	1633.18	1617.47	1653.68	1656.99	1634.06	1640.82
48	1600.79	1602.70	1584.25	1607.27	1607.88	1591.38	1628.38	1632.25	1607.18	1610.72
49	1569.81	1576.42	1556.25	1580.57	1581.50	1564.26	1595.90	1606.15	1579.78	1584.07
50	1542.04	1544.60	1526.89	1549.68	1549.31	1532.48	1569.11	1579.27	1547.12	1556.90
51	1513.71	1515.85	1497.02	1520.93	1520.65	1503.73	1540.64	1550.94	1517.67	1529.69
52	1483.56	1485.84	1465.85	1489.99	1490.69	1473.21	1511.66	1517.20	1487.94	1500.24
53	1452.67	1454.11	1431.51	1458.30	1459.28	1442.27	1480.44	1487.29	1457.79	1469.77

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54	1418.42	1421.68	1397.92	1425.78	1427.18	1410.03	1448.57	1455.88	1421.96	1437.89
55	1385.06	1386.03	1363.30	1392.18	1391.53	1372.10	1415.62	1419.77	1389.02	1398.85
56	1350.57	1350.71	1327.37	1352.62	1356.77	1337.90	1380.95	1385.33	1354.35	1364.60
57	1315.12	1314.46	1285.43	1316.33	1321.59	1302.86	1341.49	1350.25	1319.40	1329.28
58	1274.95	1277.84	1248.34	1279.24	1285.67	1266.98	1305.19	1314.37	1281.85	1293.77
59	1237.86	1236.28	1210.37	1237.58	1245.32	1229.57	1268.01	1277.61	1245.08	1256.78
60	1199.33	1197.83	1168.81	1198.58	1207.01	1191.31	1229.85	1238.42	1207.62	1215.26
61	1160.28	1158.27	1128.69	1158.65	1167.64	1153.01	1186.56	1201.00	1169.32	1176.91
62	1116.34	1118.02	1088.43	1118.48	1127.71	1114.66	1147.37	1160.60	1124.63	1138.05
63	1076.50	1072.17	1048.12	1075.29	1082.46	1070.30	1107.39	1120.86	1085.49	1098.68
64	1035.96	1030.56	1006.93	1033.86	1042.25	1030.88	1066.99	1073.94	1046.07	1057.81
65	994.77	989.13	961.08	992.30	1000.69	991.14	1024.82	1033.82	1006.84	1017.97
66	950.88	947.99	920.22	950.74	960.10	951.44	983.73	992.91	964.25	977.76
67	910.25	904.89	879.49	909.59	917.84	907.12	943.14	952.00	924.13	930.56
68	869.94	864.21	839.37	863.51	876.93	867.80	901.58	907.82	884.15	889.88
69	825.53	823.11	794.83	822.74	836.76	828.38	855.17	866.49	844.27	849.76
70	785.98	783.51	755.55	782.62	796.93	789.70	815.47	826.28	801.26	810.02
71	746.88	738.82	716.69	739.01	750.75	749.35	775.91	786.35	762.49	770.74
72	708.49	700.38	676.01	700.33	712.40	711.84	736.77	744.37	724.47	729.41
73	667.39	662.50	638.69	661.75	674.70	674.84	695.63	705.88	686.77	691.48
74	630.16	625.22	602.44	624.33	637.20	638.13	658.02	667.95	645.44	654.30
75	594.05	585.47	567.49	585.75	599.17	597.36	621.17	630.44	609.80	618.18
76	558.73	550.20	533.15	550.48	563.81	562.88	581.51	589.25	575.04	580.16
77	524.76	516.09	500.11	516.51	529.33	529.33	547.27	554.53	539.48	546.33
78	492.05	483.66	465.21	483.90	496.24	497.18	513.67	520.75	506.59	513.02
79	457.48	450.30	434.83	452.12	460.36	462.83	481.19	487.90	475.00	476.49
80	427.28	420.20	405.66	417.82	429.38	432.55	445.97	453.98	444.06	445.50
81	397.55	390.89	374.49	388.37	399.56	402.68	415.45	423.32	414.00	415.17
82	369.22	362.33	347.14	359.81	370.25	373.84	385.81	393.31	381.57	386.18
83	338.33	334.65	320.67	331.95	338.89	345.79	356.13	363.73	353.24	354.87
84	310.84	303.15	294.44	301.05	309.58	315.41	326.22	330.36	324.82	325.84
85	281.81	273.10	262.57	269.98	277.99	284.79	290.85	297.98	294.48	295.00
86	248.35	242.86	232.33	239.41	246.30	252.22	257.53	263.73	257.67	262.47
87	220.72	213.27	205.91	212.15	215.78	219.56	227.62	233.07	227.29	229.62
88	195.84	188.57	182.19	185.73	190.62	193.60	200.92	202.78	200.31	203.06
89	171.24	163.92	155.30	160.48	164.30	167.42	171.15	176.22	172.59	178.09
90	148.87	143.89	137.83	142.58	145.70	146.45	150.18	151.95	147.94	153.07
91	138.76	134.52	129.35	132.75	136.71	136.80	141.09	141.74	138.20	141.42
92	130.56	126.60	121.61	124.88	127.44	128.37	131.96	132.89	128.79	132.19
93	122.92	119.28	113.83	117.42	120.08	120.54	124.13	124.55	119.70	123.29
94	115.98	112.44	107.22	110.71	113.18	113.18	116.96	116.77	110.57	115.46
95	108.61	105.03	101.07	104.00	106.10	105.91	110.20	109.64	103.02	107.96
96	102.60	99.11	95.33	98.18	99.99	99.76	103.40	102.51	95.89	100.65
97	96.97	93.56	89.56	92.77	94.22	94.03	97.66	96.50	89.04	94.40
98	91.37	88.49	84.57	87.79	88.90	88.72	92.49	90.95	82.94	88.67
99	86.62	83.73	79.96	83.13	83.27	83.08	87.55	85.50	77.40	82.80
100	82.05	79.17	75.67	78.19	78.70	78.56	82.57	80.80	72.13	77.91
101	78.19	75.07	71.52	73.95	74.27	74.37	78.56	76.74	66.82	73.34
102	74.13	71.48	67.52	70.22	70.50	70.45	74.74	72.88	62.44	68.68
103	70.78	67.56	64.21	66.59	66.63	66.59	70.87	68.91	58.48	64.58
104	67.14	64.16	60.90	63.00	63.04	63.37	67.47	65.56	54.61	60.76
105	64.35	61.18	57.73	60.02	59.88	59.97	64.49	62.48	50.60	57.22
106	61.32	58.38	55.03	57.13	56.80	57.08	61.46	59.36	47.67	53.54
107	58.38	55.77	52.19	54.42	53.82	54.52	58.66	56.75	44.92	50.42
108	56.01	53.31	49.67	51.81	50.93	51.81	55.91	54.28	42.50	47.39
109	53.77	50.98	47.48	49.48	48.32	49.30	53.63	51.91	40.31	44.69

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110	51.63	48.83	44.96	47.20	45.76	47.20	51.16	49.53	38.26	41.80
111	49.34	46.64	42.77	44.69	43.47	45.20	49.16	47.53	36.44	39.33
112	47.20	44.83	40.68	39.93	41.42	43.24	46.97	45.62	34.43	36.58
113	45.15	42.73	38.63	36.76	39.19	41.14	45.10	43.66	33.41	33.92
114	43.29	41.05	36.62	34.85	37.14	39.37	43.29	41.80	32.06	32.29
115	41.47	39.37	34.95	33.36	35.23	37.88	41.19	40.03	30.94	30.71
116	39.84	37.88	33.32	31.82	33.46	36.30	39.56	38.49	29.96	29.50
117	37.98	36.11	31.73	30.15	31.73	34.62	37.84	36.95	28.84	28.28
118	36.34	34.62	30.24	28.94	30.19	33.41	36.20	35.55	27.96	27.35
119	34.90	33.32	28.80	27.63	28.89	32.06	34.85	34.20	26.93	26.28
120	33.50	32.10	27.63	26.37	27.68	30.89	33.50	32.76	26.23	25.49
121	32.24	30.66	26.51	25.16	26.42	29.54	32.06	31.59	25.44	24.65
122	30.94	29.54	25.39	24.09	25.39	28.38	30.80	30.38	24.51	23.67
123	29.77	28.56	24.37	23.02	24.42	27.44	29.77	29.50	23.90	23.06
124	28.33	27.63	23.44	21.95	23.44	26.56	28.56	28.38	23.30	22.13
125	27.21	26.47	22.65	21.29	22.60	25.58	27.35	27.31	22.79	21.43
126	26.05	25.39	21.85	20.32	21.67	24.74	26.33	26.37	22.04	21.06
127	25.25	24.51	21.20	19.43	21.06	23.86	25.49	25.53	21.71	20.41
128	24.37	23.72	20.41	18.92	20.60	23.02	23.62	24.60	21.06	19.66
129	23.39	23.06	20.08	18.31	19.71	22.37	21.99	23.90	20.74	19.43
130	22.60	22.09	19.52	17.71	19.29	21.53	21.15	23.11	20.13	18.82
131	21.25	21.48	18.96	17.29	18.92	20.87	20.32	22.37	19.76	18.41
132	19.90	20.78	18.59	17.01	18.41	20.22	19.71	21.99	19.48	18.08
133	19.06	20.27	18.27	16.82	18.08	19.76	19.20	21.20	19.10	17.66
134	18.55	19.48	17.89	16.49	17.80	19.20	18.78	20.60	18.78	17.43
135	18.03	19.01	17.61	16.40	17.43	18.64	18.27	19.99	18.50	17.29
136	17.80	18.41	17.33	16.26	17.43	18.27	17.89	19.43	18.22	17.05
137	17.24	18.08	17.01	16.26	17.15	17.94	17.52	18.92	18.13	16.82
138	16.91	17.66	16.77	16.12	17.05	17.52	17.15	18.64	17.80	16.77
139	16.68	17.19	16.73	15.98	16.68	17.15	16.87	18.22	17.47	16.49
140	16.54	16.91	16.45	16.03	16.45	16.91	16.77	17.66	17.47	16.40
141	16.40	16.77	16.31	16.08	16.31	16.82	16.40	17.19	16.96	16.26
142	16.22	16.54	16.31	16.08	16.31	16.45	16.36	17.01	17.01	16.36
143	16.08	16.36	16.17	16.17	16.26	16.54	16.36	16.87	16.77	16.31
144	16.12	16.31	16.26	16.49	16.26	16.26	16.36	16.73	16.63	16.31
145	16.12	16.22	16.45	16.45	16.26	16.26	16.26	16.54	16.49	16.45
146	16.31	16.31	16.45	16.73	16.40	16.26	16.22	16.45	16.54	16.63
147	16.45	16.49	16.59	16.73	16.59	16.49	16.63	16.63	16.49	16.77
148	16.59	16.59	16.54	16.82	16.68	16.54	16.59	16.63	16.68	16.91
149	16.68	16.87	16.87	16.96	16.77	16.82	16.77	16.77	16.82	17.01
150	16.91	17.10	17.01	17.05	16.96	16.87	16.91	16.96	16.96	17.15
151	17.01	17.10	17.29	17.15	16.96	16.87	17.05	17.19	17.05	17.38
152	17.19	17.10	17.29	17.43	17.19	16.87	17.05	17.43	17.15	17.43
153	17.29	17.19	17.38	17.43	17.52	17.05	17.24	17.57	17.15	17.61
154	17.47	17.43	17.66	17.43	17.75	17.24	17.43	17.80	17.33	17.75
155	17.71	17.43	17.61	17.66	17.71	17.33	17.61	17.66	17.43	17.80
156	17.89	17.61	17.85	17.80	17.85	17.61	17.66	17.89	17.52	17.99
157	17.89	17.66	17.94	17.89	17.99	17.85	17.85	18.03	17.99	18.03
158	18.13	17.80	18.08	18.27	17.94	17.94	18.03	18.27	18.03	18.03
159	18.17	17.99	18.36	18.13	18.17	18.17	18.27	18.31	18.17	18.27
160	18.31	18.03	18.31	18.22	18.31	18.31	18.41	18.41	18.27	18.31
161	18.36	18.17	18.59	18.36	18.55	18.31	18.55	18.64	18.27	18.50
162	18.45	18.17	18.73	18.59	18.50	18.36	18.55	18.73	18.41	18.59
163	18.73	18.27	18.92	18.55	18.50	18.50	18.59	18.64	18.59	18.82
164	18.73	18.50	18.82	18.68	18.59	18.64	18.73	18.78	18.68	18.82
165	18.73	18.68	18.92	18.87	18.92	18.64	18.78	19.01	18.82	19.06

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

166	18.87	18.73	18.96	18.96	19.01	18.78	18.92	19.01	18.64	19.38
167	18.87	18.73	19.20	19.01	19.06	18.87	19.01	19.24	18.78	19.20
168	19.01	18.87	19.20	19.01	19.20	18.92	19.20	19.34	18.87	19.48
169	19.10	19.10	19.24	19.01	19.10	19.01	19.29	19.52	18.96	19.38
170	19.48	19.15	19.34	19.29	19.29	19.15	19.43	19.57	19.15	19.38
171	19.43	19.20	19.24	19.48	19.38	19.24	19.48	19.71	19.10	19.52
172	19.52	19.24	19.48	19.48	19.24	19.29	19.66	19.90	19.24	19.62
173	19.80	19.34	19.48	19.43	19.43	19.29	19.76	19.85	19.29	19.76
174	19.62	19.38	19.71	19.48	19.52	19.34	19.94	19.80	19.29	19.85
175	19.71	19.29	19.66	19.66	19.57	19.43	19.99	19.90	19.38	19.85
176	19.85	19.38	19.66	19.62	19.52	19.52	20.04	19.85	19.43	19.76
177	19.80	19.52	20.04	19.66	19.66	19.62	19.90	19.94	19.52	19.85
178	19.94	19.66	19.90	19.66	19.52	19.52	20.04	19.99	19.43	19.48
179	19.90	19.71	19.99	19.62	19.71	19.57	20.08	19.90	19.43	19.62
180	19.99	19.52	19.90	19.48	19.57	19.52	20.27	20.04	19.76	19.85

**Vert. Horizontal Angles**

	<u>300</u>	<u>330</u>	<u>360</u>
0	2070.24	2063.95	2075.79
1	2069.96	2063.58	2075.60
2	2069.87	2063.30	2075.51
3	2069.13	2062.23	2074.81
4	2062.18	2065.63	2073.37
5	2060.69	2063.49	2069.03
6	2057.99	2060.41	2065.40
7	2054.87	2056.31	2061.25
8	2050.11	2051.51	2055.89
9	2049.65	2041.68	2050.86
10	2044.62	2036.70	2048.67
11	2039.82	2032.04	2043.64
12	2035.16	2027.42	2038.98
13	2030.78	2022.39	2034.27
14	2024.21	2018.57	2030.36
15	2019.59	2013.63	2021.32
16	2014.75	2008.18	2017.08
17	2010.14	2002.91	2012.47
18	2002.91	1998.58	2007.25
19	1998.11	1993.41	2003.01
20	1993.04	1987.91	2000.16
21	1988.61	1983.11	1995.92
22	1984.28	1974.21	1991.36
23	1984.32	1969.27	1986.42
24	1979.43	1964.43	1981.67
25	1974.07	1958.83	1975.98
26	1967.78	1952.87	1969.83
27	1954.36	1947.09	1963.49
28	1947.00	1939.12	1952.87
29	1938.84	1930.13	1944.53
30	1930.32	1920.44	1936.37
31	1924.12	1908.32	1926.17
32	1913.17	1897.09	1917.64
33	1901.15	1885.21	1906.04
34	1889.13	1871.98	1893.41
35	1873.00	1855.02	1879.48
36	1858.37	1839.64	1861.17

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**CANDELA TABULATION - (Cont.)**

37	1842.62	1823.05	1845.37
38	1825.80	1805.44	1827.71
39	1807.54	1786.10	1809.22
40	1784.43	1766.49	1789.97
41	1764.86	1745.85	1767.23
42	1744.12	1724.09	1745.99
43	1725.62	1698.27	1723.53
44	1702.56	1674.37	1700.88
45	1679.26	1650.00	1677.63
46	1655.40	1624.70	1652.00
47	1630.20	1598.14	1626.84
48	1597.35	1568.78	1600.79
49	1571.02	1540.82	1569.81
50	1543.62	1512.77	1542.04
51	1515.34	1480.90	1513.71
52	1486.07	1450.71	1483.56
53	1455.69	1419.77	1452.67
54	1423.78	1386.97	1418.42
55	1388.08	1349.64	1385.06
56	1353.84	1314.56	1350.57
57	1318.70	1279.14	1315.12
58	1283.24	1243.08	1274.95
59	1246.29	1206.03	1237.86
60	1202.49	1165.08	1199.33
61	1164.33	1126.92	1160.28
62	1125.42	1088.47	1116.34
63	1085.91	1049.43	1076.50
64	1045.75	1006.19	1035.96
65	1005.91	967.19	994.77
66	965.42	927.72	950.88
67	918.91	884.01	910.25
68	878.65	844.69	869.94
69	838.72	806.06	825.53
70	799.44	767.76	785.98
71	757.09	726.57	746.88
72	718.83	689.66	708.49
73	681.04	653.13	667.39
74	644.56	617.67	630.16
75	608.26	582.96	594.05
76	570.47	545.68	558.73
77	536.46	513.02	524.76
78	503.51	481.10	492.05
79	467.49	447.74	457.48
80	436.55	418.06	427.28
81	407.01	389.49	397.55
82	378.17	361.86	369.22
83	349.84	332.37	338.33
84	319.69	305.95	310.84
85	289.69	278.13	281.81
86	258.28	247.84	248.35
87	229.25	220.21	220.72
88	200.41	193.14	195.84
89	175.81	169.28	171.24
90	151.48	147.29	148.87
91	140.16	137.32	138.76
92	130.33	128.88	130.56

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

93	121.10	120.87	122.92
94	112.71	113.60	115.98
95	104.89	106.80	108.61
96	97.01	100.04	102.60
97	90.35	94.17	96.97
98	84.24	89.04	91.37
99	77.44	83.78	86.62
100	72.18	79.26	82.05
101	67.24	75.30	78.19
102	62.53	71.10	74.13
103	58.38	67.70	70.78
104	54.80	64.58	67.14
105	51.39	61.55	64.35
106	47.90	58.52	61.32
107	45.24	56.05	58.38
108	42.91	53.54	56.01
109	40.72	51.35	53.77
110	38.58	48.97	51.63
111	36.62	47.02	49.34
112	35.13	45.01	47.20
113	33.55	42.96	45.15
114	32.29	41.19	43.29
115	31.36	39.51	41.47
116	30.29	37.84	39.84
117	29.17	36.39	37.98
118	28.24	34.81	36.34
119	27.35	33.60	34.90
120	26.47	32.29	33.50
121	25.77	31.03	32.24
122	25.02	29.87	30.94
123	24.18	28.80	29.77
124	23.58	27.58	28.33
125	22.93	26.75	27.21
126	22.18	25.86	26.05
127	21.48	25.25	25.25
128	21.06	24.09	24.37
129	20.50	23.34	23.39
130	20.13	22.88	22.60
131	19.48	22.04	21.25
132	19.24	21.34	19.90
133	18.92	20.64	19.06
134	18.55	20.04	18.55
135	18.17	19.66	18.03
136	17.89	19.15	17.80
137	17.80	18.64	17.24
138	17.33	18.31	16.91
139	17.19	17.80	16.68
140	16.91	17.43	16.54
141	16.77	17.15	16.40
142	16.68	16.91	16.22
143	16.68	16.73	16.08
144	16.59	16.49	16.12
145	16.17	16.40	16.12
146	16.26	16.49	16.31
147	16.40	16.45	16.45
148	16.45	16.63	16.59

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>149</b>	16.45	16.82	16.68
<b>150</b>	16.77	16.96	16.91
<b>151</b>	16.87	17.01	17.01
<b>152</b>	16.96	17.10	17.19
<b>153</b>	17.10	17.19	17.29
<b>154</b>	17.24	17.47	17.47
<b>155</b>	17.61	17.52	17.71
<b>156</b>	17.61	17.71	17.89
<b>157</b>	17.80	17.80	17.89
<b>158</b>	17.85	17.89	18.13
<b>159</b>	17.94	18.03	18.17
<b>160</b>	17.94	18.08	18.31
<b>161</b>	18.03	18.17	18.36
<b>162</b>	18.08	18.31	18.45
<b>163</b>	18.31	18.45	18.73
<b>164</b>	18.45	18.50	18.73
<b>165</b>	18.59	18.73	18.73
<b>166</b>	18.73	18.82	18.87
<b>167</b>	18.50	18.92	18.87
<b>168</b>	18.78	18.96	19.01
<b>169</b>	18.92	19.01	19.10
<b>170</b>	18.96	19.24	19.48
<b>171</b>	18.96	19.01	19.43
<b>172</b>	19.01	19.24	19.52
<b>173</b>	19.10	19.29	19.80
<b>174</b>	19.06	19.57	19.62
<b>175</b>	19.20	19.48	19.71
<b>176</b>	19.34	19.57	19.85
<b>177</b>	19.20	19.62	19.80
<b>178</b>	19.29	19.71	19.94
<b>179</b>	19.34	19.52	19.90
<b>180</b>	19.38	19.76	19.99



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	768.95	10.10	10.10
0-30	1681.75	22.10	22.10
0-40	2857.62	37.60	37.60
0-60	5391.65	70.90	70.90
0-80	7017.22	92.20	92.20
0-90	7326.59	96.30	96.30
10-90	7130.07	93.70	93.70
20-40	2088.67	27.50	27.50
20-50	3384.68	44.50	44.50
40-70	3522.06	46.30	46.30
60-80	1625.57	21.40	21.40
70-80	637.53	8.40	8.40
80-90	309.37	4.10	4.10
90-110	182.08	2.40	2.40
90-120	218.77	2.90	2.90
90-130	241.04	3.20	3.20
90-150	265.76	3.50	3.50
90-180	281.06	3.70	3.70
110-180	98.97	1.30	1.30
0-180	7607.64	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.52
10-20	572.43
20-30	912.79
30-40	1175.88
40-50	1296.01
50-60	1238.02
60-70	988.04
70-80	637.53
80-90	309.37
90-100	118.25
100-110	63.84
110-120	36.69
120-130	22.27
130-140	14.32
140-150	10.40
150-160	8.13
160-170	5.31
170-180	1.86

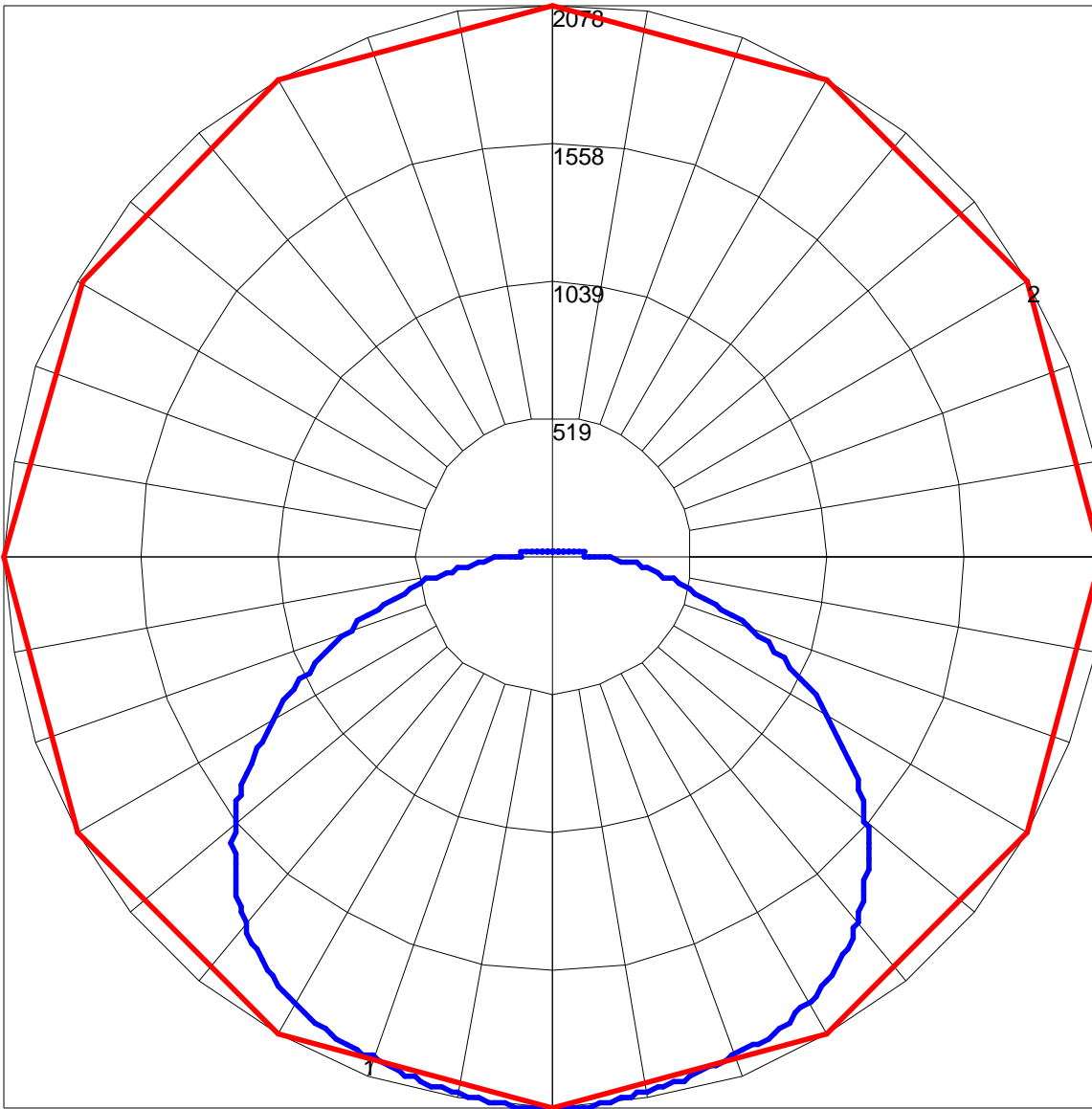
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX50.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	106	101	96	92	103	98	94	90	93	90	87	89	86	83	85	82	80	78
2	96	87	80	74	93	85	78	72	81	75	70	77	72	68	73	69	66	63
3	87	76	67	60	84	74	66	59	70	64	58	67	61	56	64	59	55	52
4	79	67	57	50	77	65	56	50	62	55	49	59	53	48	57	51	47	44
5	73	59	50	43	70	58	49	42	55	48	42	53	46	41	51	45	40	38
6	67	53	44	37	65	52	43	37	50	42	36	48	41	35	46	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	43	36	31	42	35	31	29
8	58	44	35	29	56	43	34	28	41	33	28	39	33	28	38	32	27	25
9	54	40	31	26	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	37	28	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 2077.51 Located At Horizontal Angle = 180, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)