



**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : L45PSF96-LED1U2D108DMVWH30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L45PSF96-LED1U2D108DMVWH30  
 [TESTDATE] 24-Jan-2018 06:47:38  
 [TESTLAB] Radiant Vision Systems ProSource  
 [ISSUE DATE] 1/24/2018 9:19:26 AM  
 [MANUFAC] Mobern Lighting Co.  
 [LAMP] LED Module  
 [\_TOTALLUMINAIRELUMENS] 7042.4  
 [DRIVER TYPE] (2) OSRAM OT30W (UPL) - (2) OSRAM OT50W (DWNL)  
 [BOARD/LAMP TYPE] (2) LED TAPE - 43" (UPL) - (2) LED TAPE - 23" & 24" (DWNL)  
 [COLOR TEMP] 3,051 CCT  
 [LUMEN/WATT] 68 LM/WT  
 [CRI] 82.7  
 [\_NUMBEROFRAYS]10000000  
 [OTHER] Absolute Photometry measurement

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7046
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	105
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.44 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.13 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7269	3791	3094
55	6969	2912	2333
65	5957	2067	1613
75	5678	1202	865
85	3908	368	267

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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>	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02
<b>3</b>	2083.60	2082.86	2082.30	2081.99	2081.54	2080.80	2079.99	2079.07	2078.17	2077.66
<b>6</b>	2079.67	2078.57	2079.01	2079.37	2079.01	2077.78	2075.30	2071.13	2067.07	2063.23
<b>9</b>	2071.37	2067.06	2065.77	2063.68	2064.27	2063.34	2058.89	2051.77	2044.15	2037.61
<b>12</b>	2051.49	2043.63	2037.35	2032.85	2034.11	2031.88	2027.74	2018.35	2008.31	2000.14
<b>15</b>	2014.69	2010.07	2007.60	1996.08	1987.08	1985.38	1982.32	1977.70	1963.67	1952.36
<b>18</b>	1966.34	1971.29	1967.97	1954.31	1935.28	1928.21	1926.24	1926.97	1916.52	1899.88
<b>21</b>	1913.34	1909.76	1909.94	1901.25	1884.50	1870.79	1867.08	1870.06	1859.46	1846.74
<b>24</b>	1857.38	1840.04	1838.30	1835.25	1829.26	1815.51	1805.04	1803.37	1793.45	1787.07
<b>27</b>	1798.13	1785.21	1769.72	1771.45	1763.35	1748.41	1737.96	1727.92	1723.00	1715.74
<b>30</b>	1732.52	1731.94	1701.98	1696.39	1680.61	1661.65	1654.01	1645.18	1649.55	1640.27
<b>33</b>	1659.11	1656.04	1630.29	1619.52	1606.89	1588.81	1574.81	1556.42	1564.78	1567.50
<b>36</b>	1585.22	1561.51	1558.68	1539.47	1532.19	1523.11	1507.37	1484.17	1475.47	1489.70
<b>39</b>	1514.88	1465.63	1488.81	1437.77	1451.08	1442.84	1424.28	1416.86	1398.51	1400.00
<b>42</b>	1430.94	1379.46	1407.32	1353.41	1377.45	1349.92	1332.80	1329.04	1320.78	1309.40
<b>45</b>	1321.55	1309.47	1315.35	1268.99	1299.25	1262.05	1242.19	1238.26	1234.55	1228.38
<b>48</b>	1216.58	1230.38	1221.39	1177.22	1203.13	1172.56	1160.27	1155.61	1147.89	1147.28
<b>51</b>	1143.21	1128.65	1128.31	1091.80	1099.03	1078.18	1075.95	1066.47	1071.53	1055.92
<b>54</b>	1076.42	1019.75	1042.61	1004.00	1001.16	988.80	977.28	972.13	987.94	962.26
<b>57</b>	997.20	927.71	931.81	916.33	909.46	899.78	886.64	874.97	893.58	875.07
<b>60</b>	873.50	844.78	826.79	814.26	806.42	810.96	794.30	783.32	788.09	788.37
<b>63</b>	752.87	749.78	753.69	718.36	703.36	719.12	700.70	695.56	688.70	695.00
<b>66</b>	650.73	645.75	657.19	632.67	617.19	623.60	598.36	603.14	593.70	597.94
<b>69</b>	584.38	549.71	543.41	529.65	530.33	519.35	498.60	508.99	500.61	502.04
<b>72</b>	521.64	457.66	436.35	435.53	451.59	424.15	413.34	419.75	413.46	408.87
<b>75</b>	430.02	368.86	340.11	341.60	357.90	336.48	328.17	330.51	326.58	319.62
<b>78</b>	324.82	279.29	253.42	255.65	262.80	248.96	247.63	244.30	243.74	236.57
<b>81</b>	241.14	202.44	190.43	192.44	194.17	187.47	182.37	182.97	174.50	172.18
<b>84</b>	157.58	129.60	109.53	119.69	112.75	113.17	113.11	111.59	108.82	109.46
<b>87</b>	86.20	63.62	47.00	45.16	56.99	52.30	49.76	50.06	50.81	51.61
<b>90</b>	36.34	16.49	10.92	15.30	12.76	18.32	17.70	16.81	20.52	17.53
<b>93</b>	26.09	18.73	14.97	17.48	20.82	21.93	23.49	24.88	28.50	26.01
<b>96</b>	47.62	40.78	34.73	37.33	38.73	41.21	42.21	40.96	42.58	41.62
<b>99</b>	74.05	62.93	58.81	58.58	62.02	63.30	61.62	62.69	60.88	60.33
<b>102</b>	99.29	87.16	79.31	81.44	85.00	86.50	86.41	85.75	85.64	86.19
<b>105</b>	128.48	115.05	104.54	107.54	112.41	111.80	112.28	110.74	109.69	109.74
<b>108</b>	153.28	141.27	133.07	134.79	140.71	137.14	138.23	136.33	135.74	134.05
<b>111</b>	171.45	162.36	164.67	161.22	163.91	165.43	162.25	162.28	162.51	160.05
<b>114</b>	192.73	190.74	199.42	192.19	188.60	195.35	189.82	190.21	190.63	187.10
<b>117</b>	225.37	223.19	228.15	218.67	213.45	221.86	218.35	217.75	217.63	214.20
<b>120</b>	260.12	252.72	246.75	245.97	243.60	247.58	244.64	244.02	243.42	240.70
<b>123</b>	286.33	278.09	273.08	272.63	272.42	272.08	271.48	270.76	270.17	266.27
<b>126</b>	305.39	302.54	303.56	296.24	296.75	294.94	297.61	296.47	295.62	291.51
<b>129</b>	322.22	328.96	327.45	316.32	320.77	317.09	322.59	319.66	319.62	316.77
<b>132</b>	343.19	349.78	351.30	338.76	346.28	341.03	342.71	342.73	340.73	340.58
<b>135</b>	371.75	365.44	372.07	363.79	372.00	364.06	364.16	365.13	362.72	361.90
<b>138</b>	398.68	381.31	392.89	384.97	393.23	384.96	387.89	387.79	384.12	383.32
<b>141</b>	415.31	403.60	412.49	403.88	410.24	405.50	408.80	408.11	404.68	406.61
<b>144</b>	427.89	426.85	430.15	427.45	427.01	425.30	427.64	426.40	424.58	427.02
<b>147</b>	443.90	446.63	446.78	445.86	443.91	445.93	445.84	446.19	443.57	440.70
<b>150</b>	460.65	463.47	462.03	461.79	461.46	466.51	462.81	462.19	460.33	453.83
<b>153</b>	474.40	477.70	477.59	476.62	479.07	483.71	476.52	475.33	477.50	472.17
<b>156</b>	487.50	491.35	493.67	490.44	492.78	496.63	491.56	491.93	493.98	489.90
<b>159</b>	502.36	506.82	508.43	506.09	506.66	509.51	508.23	506.70	505.55	500.74

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**CANDELA TABULATION - (Cont.)**

162	515.46	519.09	519.42	518.19	518.04	520.14	518.56	515.90	513.20	508.30
165	523.41	524.57	525.70	525.95	526.75	526.94	524.94	522.48	519.88	517.10
168	529.33	529.15	530.05	531.53	533.03	532.55	530.71	528.40	526.81	525.43
171	536.26	535.58	536.53	537.02	537.68	537.21	535.55	533.61	532.00	530.83
174	540.75	540.36	540.34	540.16	539.71	538.98	537.74	536.22	534.99	533.97
177	539.47	539.44	539.39	538.83	538.67	538.11	537.48	536.88	536.34	535.92
180	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02
3	2077.16	2077.28	2077.79	2078.67	2080.28	2081.98	2083.53	2085.24	2086.71	2087.95
6	2060.61	2059.90	2060.59	2061.86	2065.06	2069.01	2072.80	2075.00	2078.21	2079.92
9	2034.09	2032.29	2031.90	2033.12	2036.02	2040.29	2046.81	2049.51	2054.29	2056.32
12	1995.65	1994.22	1994.53	1995.14	1999.31	2001.07	2007.32	2014.30	2021.46	2024.65
15	1944.78	1944.80	1941.99	1940.14	1938.02	1943.83	1955.69	1969.57	1986.26	1978.39
18	1892.60	1888.00	1884.50	1878.91	1869.44	1872.59	1879.25	1915.70	1941.96	1941.17
21	1840.16	1837.70	1833.47	1825.28	1814.34	1800.42	1797.27	1832.85	1883.21	1859.88
24	1783.70	1783.43	1775.20	1769.08	1761.17	1726.59	1719.90	1748.07	1822.15	1768.59
27	1713.54	1713.87	1703.39	1692.97	1707.71	1679.56	1677.27	1659.37	1768.97	1682.75
30	1636.89	1635.89	1618.78	1593.40	1628.94	1594.95	1626.05	1580.89	1708.53	1599.12
33	1556.92	1550.72	1542.02	1512.33	1535.26	1564.72	1554.20	1497.55	1626.09	1501.78
36	1475.23	1471.99	1472.04	1449.64	1436.95	1464.56	1482.34	1391.19	1533.54	1408.74
39	1399.01	1394.11	1383.24	1381.68	1355.16	1347.60	1399.17	1288.21	1444.86	1335.71
42	1317.84	1299.73	1290.65	1293.15	1281.41	1267.29	1300.73	1190.94	1355.52	1267.48
45	1228.61	1209.71	1207.60	1199.62	1185.69	1205.38	1184.02	1106.25	1258.34	1196.05
48	1135.97	1132.47	1130.01	1110.55	1088.30	1146.06	1069.89	1026.97	1154.82	1122.63
51	1048.44	1050.29	1041.69	1018.55	1014.70	1063.00	957.42	954.70	1049.20	1056.20
54	955.79	961.23	947.45	922.03	939.45	949.33	879.02	872.89	947.65	984.10
57	870.21	865.39	863.29	832.26	858.83	846.42	795.91	790.25	853.90	891.28
60	784.68	769.31	764.72	744.67	757.88	751.42	694.56	706.93	760.93	790.91
63	694.19	678.07	666.50	652.75	658.57	657.80	611.66	624.44	661.20	686.44
66	593.47	584.80	571.02	566.67	575.68	561.09	513.04	534.48	556.37	575.66
69	491.75	489.16	478.20	482.42	480.60	455.81	423.18	447.42	449.87	471.12
72	399.79	401.24	395.83	399.36	394.46	366.87	341.91	362.19	343.50	374.59
75	313.41	317.75	313.56	315.86	310.49	283.78	263.17	279.12	240.25	282.51
78	235.39	240.58	235.81	230.42	231.60	210.52	189.65	200.11	149.35	196.10
81	167.03	169.10	162.72	159.54	157.30	144.14	126.45	117.39	74.03	113.59
84	101.75	102.16	99.24	92.46	90.11	85.21	67.27	63.52	31.66	61.80
87	49.32	46.34	44.29	39.19	38.88	31.80	22.83	20.83	6.88	22.16
90	17.53	19.08	13.06	11.95	12.20	14.00	9.22	6.97	0.86	2.94
93	25.44	21.26	19.38	17.61	16.87	10.67	7.48	5.18	4.29	10.49
96	40.36	39.14	36.69	30.42	30.43	26.06	19.76	16.89	15.03	22.71
99	56.74	57.63	55.12	51.43	49.82	43.41	37.70	32.53	32.91	37.36
102	82.22	82.35	80.08	76.50	74.64	65.51	58.29	55.70	59.37	60.44
105	106.36	106.99	102.45	101.06	98.89	87.42	80.52	80.63	85.63	83.16
108	132.63	132.14	127.38	124.36	124.00	112.01	104.39	107.58	112.44	107.89
111	159.28	157.32	152.37	148.06	148.74	138.24	128.77	135.95	139.32	134.57
114	186.99	183.50	178.18	173.13	176.74	169.85	153.96	163.83	167.34	161.93
117	213.49	209.55	202.65	198.25	201.16	197.96	179.34	190.22	197.18	189.10
120	238.42	236.19	228.07	223.60	227.85	222.54	195.34	215.76	226.52	213.06
123	263.40	262.82	256.29	247.90	253.57	245.86	225.24	243.10	253.33	240.70
126	287.59	285.99	282.48	273.36	275.20	272.19	251.07	267.03	279.57	263.15
129	311.72	307.01	309.11	299.61	297.31	302.99	275.10	285.49	307.02	282.88
132	334.17	328.31	331.42	323.89	318.91	326.60	307.83	300.95	332.82	300.41

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**CANDELA TABULATION - (Cont.)**

135	359.30	349.29	351.29	348.72	344.66	344.44	338.78	319.59	354.30	318.68
138	382.53	373.78	372.71	375.11	366.16	360.12	368.83	339.17	374.38	335.62
141	399.99	397.64	393.36	396.93	381.01	381.48	391.08	359.72	396.21	353.87
144	415.41	414.51	410.18	410.69	402.08	410.29	408.88	381.46	418.23	375.72
147	433.88	430.52	424.92	423.82	429.39	434.55	421.61	405.56	438.20	401.67
150	452.07	448.75	443.14	441.61	451.78	446.95	434.45	429.91	456.04	419.93
153	469.07	464.84	461.19	460.45	465.40	458.73	454.96	449.63	472.09	446.45
156	483.38	477.73	474.79	473.88	472.68	466.87	471.18	460.07	486.13	469.18
159	492.67	486.64	485.81	485.35	482.87	480.71	481.95	488.71	497.93	485.66
162	501.88	496.85	496.82	497.48	495.06	495.13	497.34	499.73	507.61	503.44
165	513.10	510.84	510.39	510.62	509.01	508.65	510.90	513.81	515.54	511.82
168	523.97	522.90	522.59	522.13	521.56	520.28	521.10	522.46	522.48	519.39
171	530.26	530.02	529.94	529.76	529.41	529.04	529.50	529.15	528.85	527.38
174	533.46	533.40	533.54	533.65	533.82	533.91	533.81	533.43	533.25	532.85
177	535.58	535.38	535.25	535.16	535.11	535.12	534.96	534.89	534.77	534.58
180	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14

**Vert. Angles**      **Horizontal Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02
3	2088.92	2090.06	2090.58	2091.31	2091.84	2092.23	2092.49	2092.45	2092.33	2091.83
6	2082.81	2084.31	2085.03	2085.89	2087.82	2089.60	2091.08	2092.60	2093.60	2094.03
9	2060.90	2061.08	2064.01	2067.37	2072.07	2076.07	2078.77	2080.75	2083.11	2085.34
12	2026.45	2027.79	2033.45	2037.76	2045.44	2051.10	2053.20	2054.33	2057.08	2061.68
15	1982.93	1975.75	1975.53	1987.19	2000.14	2012.78	2013.48	2013.76	2016.49	2025.52
18	1916.40	1905.52	1902.86	1920.22	1939.17	1960.09	1967.85	1967.24	1972.93	1979.72
21	1843.42	1834.74	1848.78	1864.86	1879.27	1901.93	1914.19	1921.37	1927.06	1933.68
24	1767.32	1773.66	1812.94	1827.58	1824.77	1840.20	1856.96	1868.76	1873.47	1878.70
27	1708.61	1733.70	1776.90	1777.98	1769.17	1776.03	1801.80	1801.72	1805.33	1811.03
30	1620.00	1683.51	1696.07	1684.30	1690.89	1704.40	1742.24	1725.89	1731.63	1738.49
33	1565.34	1610.66	1592.32	1592.57	1606.46	1618.73	1659.05	1648.10	1656.08	1658.85
36	1513.93	1515.85	1492.08	1527.43	1534.38	1545.72	1562.62	1567.21	1580.69	1583.44
39	1445.36	1400.12	1415.50	1464.69	1451.01	1476.05	1478.89	1481.80	1507.79	1509.43
42	1331.33	1316.39	1343.24	1369.40	1360.18	1386.03	1395.11	1397.83	1424.46	1418.18
45	1213.09	1250.09	1242.89	1265.55	1278.48	1293.17	1302.14	1319.74	1323.86	1323.68
48	1100.45	1183.99	1141.49	1177.70	1205.43	1206.51	1207.79	1238.38	1220.05	1236.74
51	991.70	1101.28	1062.48	1085.49	1116.22	1114.20	1121.54	1145.04	1134.12	1147.67
54	907.13	994.22	976.46	976.71	1009.03	1025.35	1025.71	1045.70	1049.95	1055.57
57	813.47	888.77	891.71	874.98	911.85	936.33	927.24	947.97	963.00	956.50
60	723.96	779.17	797.11	787.04	810.69	841.75	828.20	850.70	866.88	855.61
63	639.11	680.76	705.96	696.64	714.45	743.61	735.91	751.31	766.55	754.05
66	549.19	591.62	622.54	607.09	617.01	640.05	641.13	650.63	658.43	651.97
69	455.31	485.52	521.24	515.44	518.00	535.27	544.48	550.58	552.53	554.58
72	369.87	392.17	429.49	425.59	428.38	437.79	452.15	453.96	456.94	460.52
75	284.43	307.29	338.95	339.73	340.13	342.99	355.96	362.59	360.67	362.23
78	205.53	230.21	250.90	252.66	257.87	253.02	262.71	273.01	268.04	267.35
81	132.97	149.31	156.29	164.83	162.81	169.78	165.60	174.89	173.01	181.90
84	71.24	87.32	84.48	93.69	95.47	99.10	100.94	101.09	106.32	102.91
87	23.41	32.10	35.74	42.16	39.39	42.03	42.93	48.00	46.36	43.86
90	2.80	6.03	9.00	14.06	14.25	11.71	12.64	19.65	15.77	15.45
93	18.67	27.62	37.76	45.77	53.08	59.02	61.99	67.22	66.23	65.68
96	30.26	44.31	53.18	63.44	69.77	74.05	78.88	82.59	81.40	79.77
99	47.15	60.06	74.11	82.34	86.87	92.26	97.85	99.80	101.20	99.10
102	65.34	77.78	94.98	100.42	106.49	109.83	117.18	118.73	119.41	115.16
105	85.13	98.13	116.13	121.62	127.34	130.71	137.37	141.41	140.08	137.89

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

108	106.89	121.30	138.43	143.83	149.20	152.84	159.26	164.44	160.88	160.88
111	129.48	145.78	161.20	166.86	170.62	176.44	182.90	187.26	182.35	183.15
114	156.04	174.28	186.12	188.65	191.59	201.85	207.87	210.61	206.84	206.72
117	167.91	199.96	208.01	209.96	212.01	226.79	230.95	235.08	232.50	231.30
120	202.62	225.14	233.84	232.42	236.85	250.09	252.73	259.38	257.52	255.88
123	228.67	250.25	258.48	253.35	265.42	273.36	275.89	282.32	281.94	280.23
126	249.86	276.12	277.61	276.26	290.22	296.92	298.63	304.90	303.43	302.38
129	272.70	304.16	294.97	300.73	314.55	318.06	320.82	327.91	322.88	322.60
132	303.84	324.67	311.90	323.27	334.31	335.77	340.99	348.91	341.53	343.96
135	334.45	340.24	336.89	346.57	351.97	353.63	362.32	365.97	363.84	365.29
138	364.19	355.18	360.51	371.36	372.66	376.73	381.69	382.23	384.96	387.71
141	385.70	373.86	374.94	390.81	391.98	398.12	398.18	400.79	401.04	407.39
144	401.75	398.95	392.34	403.52	406.32	412.18	415.54	419.50	416.11	421.00
147	416.71	421.66	416.18	418.13	421.13	427.47	436.68	435.74	434.70	434.86
150	432.91	437.07	439.60	438.78	442.54	446.67	453.14	450.44	452.83	451.78
153	454.96	449.71	457.42	460.01	462.08	461.04	462.85	464.98	468.17	467.98
156	459.95	458.17	466.01	471.85	473.64	473.11	473.87	479.09	481.11	481.88
159	478.76	473.12	476.31	481.45	484.39	487.32	489.43	492.04	491.28	491.53
162	494.79	489.43	489.86	494.32	496.44	500.11	503.31	503.35	500.97	499.53
165	506.27	502.53	503.68	506.21	507.05	509.40	511.85	512.66	510.83	510.15
168	515.65	513.84	515.46	516.05	516.23	516.96	518.64	520.03	520.61	521.65
171	526.40	525.05	525.09	525.01	524.49	524.20	524.61	525.70	527.76	530.65
174	532.69	532.23	531.56	530.82	530.12	529.50	529.42	530.25	532.12	534.42
177	534.33	534.13	533.83	533.53	533.39	533.37	533.53	534.00	534.62	535.51
180	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14	536.14

**Vert. Horizontal Angles**

	<b>300</b>	<b>310</b>	<b>320</b>	<b>330</b>	<b>340</b>	<b>350</b>	<b>360</b>
0	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02	2086.02
3	2091.06	2089.97	2088.50	2087.36	2085.61	2084.52	2083.60
6	2093.66	2092.36	2090.49	2087.94	2084.72	2081.57	2079.67
9	2086.98	2087.48	2086.77	2084.27	2081.25	2075.61	2071.37
12	2067.02	2070.18	2072.04	2069.49	2065.52	2058.77	2051.49
15	2031.83	2035.96	2034.70	2034.86	2033.19	2021.65	2014.69
18	1986.63	1988.49	1979.06	1981.21	1981.64	1977.92	1966.34
21	1939.53	1938.81	1926.97	1921.95	1927.69	1925.02	1913.34
24	1883.43	1888.62	1878.37	1865.88	1870.92	1867.22	1857.38
27	1819.62	1826.89	1829.73	1818.01	1805.90	1803.54	1798.13
30	1744.08	1745.86	1759.24	1754.80	1738.03	1734.25	1732.52
33	1668.62	1669.82	1682.04	1676.94	1671.38	1665.76	1659.11
36	1596.23	1596.94	1599.27	1586.49	1602.16	1590.30	1585.22
39	1509.75	1515.90	1518.19	1479.98	1527.98	1495.83	1514.88
42	1417.74	1426.14	1445.24	1404.44	1444.31	1400.42	1430.94
45	1320.15	1335.58	1357.10	1326.73	1354.30	1326.07	1321.55
48	1229.92	1243.87	1253.19	1231.37	1266.59	1247.34	1216.58
51	1148.26	1149.17	1147.78	1137.91	1170.93	1148.52	1143.21
54	1055.07	1053.06	1042.12	1046.81	1079.51	1040.95	1076.42
57	957.00	953.45	949.31	965.72	965.59	944.79	997.20
60	847.94	858.40	854.60	865.14	861.98	873.10	873.50
63	749.72	764.98	755.07	762.29	783.37	775.93	752.87
66	657.66	667.57	661.94	665.82	676.43	664.90	650.73
69	562.07	557.64	561.35	557.08	560.35	562.29	584.38
72	464.21	457.29	472.88	463.45	452.83	475.91	521.64
75	360.27	366.97	375.91	367.92	356.47	384.61	430.02
78	269.15	274.52	280.01	275.31	260.52	288.47	324.82

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

<b>81</b>	183.02	190.24	193.17	192.76	192.46	207.82	241.14
<b>84</b>	111.20	111.71	109.49	114.95	109.50	134.11	157.58
<b>87</b>	41.14	51.94	47.19	40.89	38.53	60.49	86.20
<b>90</b>	14.66	10.21	10.25	7.82	5.51	14.41	36.34
<b>93</b>	61.67	55.47	50.10	38.90	28.90	27.10	26.09
<b>96</b>	82.19	74.24	67.94	59.00	46.71	47.95	47.62
<b>99</b>	99.36	94.42	90.22	79.31	69.93	67.74	74.05
<b>102</b>	117.15	111.43	108.23	96.91	87.73	90.09	99.29
<b>105</b>	135.96	135.61	131.73	121.27	113.93	117.05	128.48
<b>108</b>	159.24	158.90	155.00	146.67	138.92	142.10	153.28
<b>111</b>	181.65	183.12	176.41	176.01	168.04	166.64	171.45
<b>114</b>	206.77	208.92	200.20	199.46	198.72	192.12	192.73
<b>117</b>	233.50	232.95	223.59	225.10	225.12	221.61	225.37
<b>120</b>	258.71	256.87	251.78	249.02	244.32	248.58	260.12
<b>123</b>	283.77	279.13	278.32	274.44	271.59	263.32	286.33
<b>126</b>	307.00	300.50	300.89	296.42	301.05	296.05	305.39
<b>129</b>	328.24	322.31	322.82	319.02	322.73	322.16	322.22
<b>132</b>	345.13	345.10	344.56	339.68	345.29	345.54	343.19
<b>135</b>	363.23	364.67	367.19	361.54	367.56	362.15	371.75
<b>138</b>	384.50	381.73	388.21	380.77	388.82	377.44	398.68
<b>141</b>	405.88	400.37	406.01	399.14	407.53	399.83	415.31
<b>144</b>	424.94	418.54	422.91	423.10	424.93	422.97	427.89
<b>147</b>	439.14	435.05	439.45	442.17	441.55	441.00	443.90
<b>150</b>	453.82	451.02	454.67	457.30	456.13	457.47	460.65
<b>153</b>	469.91	467.86	469.19	470.61	472.07	474.45	474.40
<b>156</b>	484.71	483.50	483.14	484.70	488.54	489.28	487.50
<b>159</b>	496.09	496.84	497.29	499.89	501.32	502.30	502.36
<b>162</b>	502.93	505.88	507.74	510.98	511.94	513.89	515.46
<b>165</b>	512.02	515.69	519.22	522.08	523.06	522.46	523.41
<b>168</b>	524.85	528.96	532.62	533.22	532.23	530.46	529.33
<b>171</b>	534.41	538.31	540.56	540.86	539.96	537.51	536.26
<b>174</b>	537.34	539.85	541.29	542.03	542.01	541.37	540.75
<b>177</b>	536.51	537.56	538.46	538.71	539.49	539.49	539.47
<b>180</b>	536.14	536.14	536.14	536.14	536.14	536.14	536.14

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L45PSF96-LED1U2D108DMVWH30.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	621.13	N.A.	8.80
0-30	1585.87	N.A.	22.50
0-40	2456.04	N.A.	34.90
0-60	4392.55	N.A.	62.30
0-80	5336.94	N.A.	75.70
0-90	5481.07	N.A.	77.80
10-90	5320.46	N.A.	75.50
20-40	1834.91	N.A.	26.00
20-50	2721.05	N.A.	38.60
40-70	2523.15	N.A.	35.80
60-80	944.39	N.A.	13.40
70-80	357.75	N.A.	5.10
80-90	144.13	N.A.	2.00
90-110	135.76	N.A.	1.90
90-120	360.27	N.A.	5.10
90-130	584.32	N.A.	8.30
90-150	1149.05	N.A.	16.30
90-180	1564.79	N.A.	22.20
110-180	1429.03	N.A.	20.30
0-180	7045.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.60
10-20	460.53
20-30	964.74
30-40	870.17
40-50	886.14
50-60	1050.37
60-70	586.64
70-80	357.75
80-90	144.13
90-100	39.05
100-110	96.71
110-120	224.51
120-130	224.05
130-140	245.91
140-150	318.82
150-160	200.34
160-170	142.40
170-180	73.00

**IES INDOOR REPORT**  
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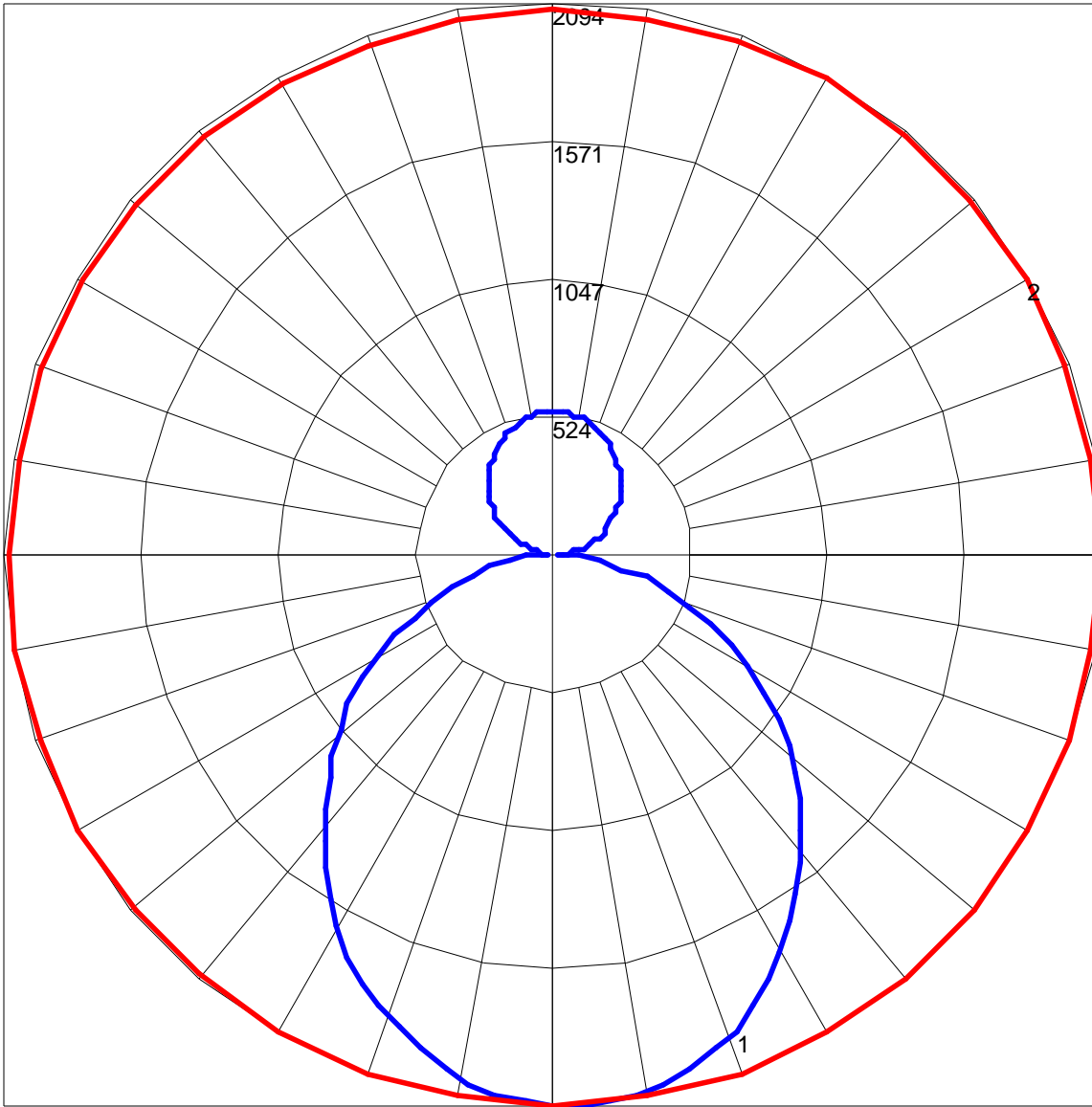
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	104	99	95	91	99	95	91	87	86	83	81	79	76	74	72	70	68	65
2	94	86	80	74	90	82	77	72	75	71	67	69	65	62	63	60	57	54
3	86	76	68	62	82	72	65	60	66	61	56	61	56	52	55	52	48	45
4	79	67	58	52	75	64	56	50	59	52	47	54	49	44	49	45	42	39
5	72	60	51	45	68	57	49	43	53	46	41	48	43	38	44	40	36	33
6	66	54	45	39	63	51	43	38	47	41	36	44	38	34	40	35	32	29
7	61	48	40	34	58	47	39	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	51	39	31	26	36	30	25	33	28	24	31	26	23	21
10	50	37	29	24	47	36	29	24	33	27	23	31	25	21	29	24	20	19



POLAR GRAPH



Maximum Candela = 2094.03 Located At Horizontal Angle = 290, Vertical Angle = 6  
# 1 - Vertical Plane Through Horizontal Angles (290 - 110) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (6) (Through Max. Cd.)