

IES ROAD REPORT PHOTOMETRIC FILENAME : 1459-2410001.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[NAME] INFORME DE RESULTADOS SIMPLIFICADO - FSLA01b V03 2023-04-14
[TESTING METHOD] ANSI/IES LM-79-19 Numerales 5 y 7.3
[TEST] 1459-2410001
[ISSUEDATE] 23-ene-24
[MANUFAC] ELECTROCONTROL S.A.S.
[LUMCAT] LED
[LUMINAIRE] Luminaria LED 40 W - T1M-1-40W T1S1211 5000K
[LAMPCAT] T1M-1-40
[LAMP] LEDs - HPWINNER - 5050 - Optica T1S1211 - 5000 K
[BALLAST] LED Driver Interno
[TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL
[MORE] Voltaje (V): 219.98; Corriente (A): 0.1901; Potencia (W): 39.1193; Frecuencia (Hz): 60
[MORE] Este informe contiene 10 paginas.
[MORE] El Anexo IES es parte integral de este informe.
[MORE] El presente informe NO puede reproducirse parcialmente sin la aprobacion del Laboratorio.
[MORE] El Laboratorio LAPEC NO es responsable de los perjuicios por el uso inadecuado de este informe.
[MORE] Calle 59 No. 59-194 Copacabana, Antioquia; Tel: (+57) 314 488 7855
[MORE] Lapec@electrocontrol.com.co; Tlaboratorio@electrocontrol.com.co; https://www.electrocontrol.com.co/

CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6793
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	174
Total Luminaire Watts	39.1193
Ballast Factor	1.00
Maximum Candela	5608.959
Maximum Candela Angle	90H 62.5V
Maximum Candela (<90 Degrees Vertical)	5608.959
Maximum Candela Angle (<90 Degrees Vertical)	90H 62.5V
Maximum Candela At 90 Degrees Vertical	100.83 (1.5% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	702.301 (10.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1456.367	1465.883	1459.539	1453.195	1453.195	1456.367	1453.195	1454.814	1454.814	1456.367
5.0	1472.227	1476.951	1475.399	1475.399	1478.503	1475.399	1470.607	1472.227	1476.951	1472.227
7.5	1502.327	1500.775	1505.499	1505.499	1510.291	1505.499	1502.327	1505.499	1497.603	1494.364
10.0	1546.938	1532.563	1543.699	1546.938	1543.699	1543.699	1545.319	1537.355	1532.563	1526.219
12.5	1593.304	1582.101	1586.892	1594.924	1591.684	1586.892	1590.064	1580.481	1575.689	1567.658
15.0	1649.591	1646.351	1644.731	1651.143	1647.971	1643.112	1636.700	1633.460	1625.429	1617.398
17.5	1720.725	1719.105	1717.486	1722.345	1715.866	1704.527	1699.668	1691.569	1681.851	1668.893
20.0	1807.180	1812.039	1815.346	1812.039	1800.633	1790.780	1782.613	1767.901	1746.776	1733.751
22.5	1891.002	1899.236	1897.616	1892.622	1881.081	1871.228	1867.921	1856.380	1835.053	1818.653
25.0	1947.289	1958.897	1958.897	1947.289	1938.988	1935.681	1937.300	1930.686	1920.765	1909.157
27.5	1975.567	1983.869	1978.874	1970.573	1967.199	1973.880	1982.181	1985.556	1988.863	1985.556
30.0	1965.579	1962.204	1963.892	1958.897	1962.204	1977.187	1997.164	2010.527	2027.265	2040.628
32.5	1909.157	1895.929	1904.230	1904.230	1915.771	1940.675	1975.567	2018.896	2042.315	2067.489
35.0	1820.273	1810.419	1818.653	1820.273	1836.673	1882.769	1912.464	1978.874	2028.952	2072.550
37.5	1712.626	1699.668	1714.246	1714.246	1736.990	1798.946	1839.980	1919.078	1985.556	2054.058
40.0	1577.309	1570.897	1575.689	1582.101	1615.778	1678.611	1732.131	1818.653	1912.464	2002.226
42.5	1390.159	1394.883	1401.160	1409.056	1453.195	1529.391	1596.476	1696.429	1803.873	1914.151
45.0	1171.086	1176.486	1180.063	1194.506	1245.191	1324.424	1412.228	1532.563	1678.611	1807.180
47.5	895.390	898.967	902.544	913.207	968.482	1059.660	1174.663	1302.624	1476.951	1651.143
50.0	663.562	668.826	670.648	681.177	709.387	771.208	877.640	1006.006	1220.489	1424.781
52.5	455.153	462.104	462.104	474.320	491.800	540.730	609.097	718.229	870.486	1140.514
55.0	324.829	328.271	330.026	335.223	338.665	354.255	389.012	456.907	575.757	772.963
57.5	248.701	247.013	250.455	250.455	253.897	262.536	274.617	295.404	347.371	484.781
60.0	224.607	224.607	226.294	231.491	233.178	238.375	241.817	243.571	247.013	309.239
62.5	207.329	209.084	210.771	212.526	219.410	228.049	234.933	229.736	222.852	226.294
65.0	184.990	186.677	181.548	183.235	191.874	205.642	217.723	221.165	209.084	200.445
67.5	164.338	164.338	160.896	162.651	169.467	183.235	200.445	200.445	195.316	183.235
70.0	152.325	159.209	152.325	160.896	169.467	178.106	183.235	179.793	169.467	162.651
72.5	117.973	117.973	117.973	126.544	141.999	155.767	167.780	172.909	178.106	169.467
75.0	97.388	97.388	100.830	112.843	128.298	140.312	145.441	143.754	152.325	162.651
77.5	85.442	78.558	87.130	97.388	114.531	129.986	133.428	128.298	121.415	131.740
80.0	75.184	68.300	80.313	100.830	121.415	136.870	129.986	111.156	100.830	100.830
82.5	52.912	51.225	59.729	87.130	114.531	128.298	119.727	100.830	82.000	80.313
85.0	46.096	40.966	51.225	70.055	80.313	105.959	133.428	126.544	76.871	59.729
87.5	34.150	34.150	37.524	52.912	70.055	100.830	133.428	133.428	66.613	49.538
90.0	25.579	23.891	32.395	46.096	70.055	87.130	100.830	97.388	49.538	35.837

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1453.195	1454.814	1456.367	1456.367	1451.642	1453.195	1448.470	1448.470	1451.642	1451.642
5.0	1472.227	1472.227	1470.607	1469.055	1467.435	1464.263	1459.539	1456.367	1456.367	1451.642
7.5	1491.192	1488.020	1486.467	1481.675	1481.675	1473.779	1469.055	1467.435	1459.539	1450.023
10.0	1521.427	1510.291	1505.499	1499.155	1494.364	1488.020	1481.675	1478.503	1469.055	1456.367
12.5	1558.074	1542.147	1534.183	1522.979	1516.635	1510.291	1500.775	1494.364	1481.675	1469.055
15.0	1602.888	1588.512	1574.069	1556.522	1545.319	1532.563	1522.979	1510.291	1497.603	1481.675
17.5	1647.971	1635.080	1617.398	1598.096	1580.481	1561.314	1551.730	1530.943	1515.083	1502.327
20.0	1712.626	1698.048	1673.752	1647.971	1623.809	1596.476	1578.861	1559.694	1540.527	1529.391
22.5	1790.780	1774.447	1730.511	1711.006	1676.992	1644.731	1622.190	1593.304	1570.897	1556.522
25.0	1887.695	1862.994	1815.346	1789.160	1732.131	1701.288	1673.752	1633.460	1606.127	1591.684
27.5	1973.880	1953.903	1909.157	1864.614	1818.653	1763.041	1715.866	1668.893	1649.591	1623.809
30.0	2044.002	2037.321	2010.527	1968.886	1904.230	1838.293	1790.780	1730.511	1686.710	1665.721
32.5	2092.730	2099.411	2092.730	2075.857	2012.214	1942.295	1861.307	1792.399	1748.396	1701.288
35.0	2119.658	2139.905	2158.533	2158.533	2138.218	2065.801	1970.573	1876.155	1808.799	1745.089
37.5	2119.658	2172.098	2212.862	2229.937	2233.312	2190.793	2109.535	1997.164	1899.236	1812.039

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CANDELA TABULATION - (Cont.)

40.0	2092.730	2173.785	2255.516	2289.801	2329.282	2331.037	2282.917	2168.724	2023.890	1902.543
42.5	2045.689	2156.845	2272.658	2363.770	2448.740	2473.104	2476.613	2391.441	2217.991	2039.008
45.0	1963.892	2117.971	2272.658	2410.473	2558.883	2645.406	2682.660	2648.915	2460.888	2228.250
47.5	1851.453	2048.996	2258.958	2452.182	2663.155	2833.028	2930.753	2950.730	2779.103	2469.594
50.0	1689.950	1967.199	2235.066	2485.319	2773.704	3031.178	3223.457	3285.143	3139.837	2770.127
52.5	1457.986	1812.039	2178.915	2532.562	2907.132	3257.067	3544.710	3710.600	3594.652	3173.245
55.0	1133.292	1561.314	2057.433	2544.845	3062.359	3533.236	3979.548	4270.700	4244.311	3735.841
57.5	735.843	1183.707	1825.200	2509.818	3277.652	3969.627	4556.115	4973.608	5018.624	4448.603
60.0	432.476	765.877	1434.297	2300.059	3390.563	4266.650	4937.231	5437.467	5521.829	5031.582
62.5	312.681	488.290	1009.583	1910.844	3275.762	4376.727	4952.214	5535.192	5608.959	5316.187
65.0	234.933	364.716	631.909	1390.159	2780.858	4089.219	4683.334	5172.029	5217.787	5057.363
67.5	186.677	279.814	460.349	884.726	1995.544	3635.079	4450.696	4856.310	4860.562	4756.898
70.0	167.780	228.049	347.371	610.852	1294.863	2485.319	3577.307	4161.501	4242.286	4270.700
72.5	143.754	179.793	236.687	371.600	801.309	1609.367	2286.359	2887.222	3049.468	3215.966
75.0	128.298	124.857	148.883	228.049	488.290	1068.637	1543.699	1835.053	1957.277	2096.037
77.5	119.727	107.714	112.843	155.767	328.271	667.071	993.453	1151.312	1206.586	1283.997
80.0	107.714	94.014	97.388	109.401	215.968	413.309	603.833	660.052	702.301	642.437
82.5	80.313	76.871	76.871	85.442	150.570	245.259	352.568	354.255	354.255	248.701
85.0	61.483	54.599	59.729	63.171	85.442	128.298	178.106	178.106	172.909	121.415
87.5	46.096	42.654	44.408	46.096	59.729	75.184	95.701	87.130	90.572	82.000
90.0	32.395	32.395	30.708	34.150	35.837	46.096	47.783	46.096	44.408	40.966

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1446.918	1445.298	1445.298	1446.918	1445.298	1446.918	1442.126	1440.574	1445.298	1446.918
5.0	1445.298	1446.918	1446.918	1446.918	1450.023	1446.918	1445.298	1440.574	1442.126	1443.746
7.5	1448.470	1450.023	1451.642	1448.470	1451.642	1450.023	1450.023	1445.298	1445.298	1445.298
10.0	1456.367	1457.986	1451.642	1454.814	1451.642	1454.814	1456.367	1451.642	1451.642	1450.023
12.5	1464.263	1465.883	1465.883	1459.539	1459.539	1462.711	1462.711	1462.711	1459.539	1454.814
15.0	1476.951	1476.951	1472.227	1469.055	1469.055	1470.607	1469.055	1469.055	1469.055	1464.263
17.5	1494.364	1494.364	1483.295	1480.123	1481.675	1480.123	1483.295	1481.675	1481.675	1481.675
20.0	1516.635	1513.463	1500.775	1497.603	1495.983	1495.983	1497.603	1494.364	1491.192	1491.192
22.5	1540.527	1529.391	1521.427	1515.083	1511.843	1510.291	1513.463	1510.291	1502.327	1499.155
25.0	1569.277	1551.730	1540.527	1538.907	1529.391	1526.219	1522.979	1516.635	1503.947	1500.775
27.5	1596.476	1574.069	1561.314	1556.522	1548.491	1543.699	1534.183	1522.979	1502.327	1491.192
30.0	1620.570	1598.096	1588.512	1582.101	1570.897	1556.522	1535.735	1522.979	1494.364	1472.227
32.5	1657.622	1628.601	1614.158	1604.507	1590.064	1566.105	1535.735	1510.291	1470.607	1445.298
35.0	1689.950	1659.242	1641.492	1622.190	1596.476	1558.074	1522.979	1491.192	1435.850	1390.159
37.5	1741.849	1698.048	1667.273	1626.981	1596.476	1538.907	1494.364	1454.814	1394.883	1332.253
40.0	1805.492	1741.849	1701.288	1639.872	1585.273	1513.463	1448.470	1394.883	1326.044	1262.265
42.5	1894.309	1792.399	1725.584	1643.112	1569.277	1472.227	1391.779	1327.596	1249.847	1185.529
45.0	2010.527	1869.540	1767.901	1659.242	1542.147	1426.401	1322.871	1226.698	1156.711	1066.882
47.5	2156.845	1950.596	1798.946	1649.591	1503.947	1355.672	1229.735	1126.071	1016.737	934.602
50.0	2325.840	2042.315	1833.366	1635.080	1448.470	1266.922	1122.494	982.722	879.395	788.891
52.5	2578.253	2143.347	1864.614	1615.778	1390.159	1174.663	979.145	840.318	728.825	653.033
55.0	2936.220	2325.840	1895.929	1578.861	1304.177	1048.930	840.318	679.422	586.286	488.290
57.5	3527.500	2560.638	1957.277	1538.907	1205.101	920.294	688.263	540.730	444.692	350.813
60.0	4017.342	2887.222	2059.120	1508.671	1083.012	762.367	538.975	413.309	319.633	252.210
62.5	4393.127	3128.769	2123.033	1459.539	927.448	602.078	432.476	324.829	238.375	207.329
65.0	4252.410	3138.015	2104.473	1369.777	778.295	469.056	356.010	265.978	203.887	188.432
67.5	3878.785	2788.079	1872.848	1209.691	638.928	385.503	285.010	212.526	186.677	169.467
70.0	3407.570	2370.654	1469.055	968.482	523.250	333.468	245.259	195.316	169.467	162.651
72.5	2643.651	1798.946	1059.660	702.301	413.309	255.652	215.968	184.990	166.025	152.325
75.0	1662.481	1106.364	635.418	413.309	247.013	178.106	162.651	164.338	155.767	129.986
77.5	849.159	512.722	314.436	207.329	162.651	131.740	126.544	131.740	123.102	112.843
80.0	343.862	200.445	147.128	124.857	107.714	100.830	95.701	94.014	94.014	90.572
82.5	148.883	97.388	87.130	82.000	80.313	76.871	75.184	70.055	71.742	68.300
85.0	85.442	68.300	66.613	63.171	66.613	59.729	56.354	54.599	51.225	52.912

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CANDELA TABULATION - (Cont.)

87.5	61.483	51.225	51.225	47.783	51.225	49.538	40.966	37.524	35.837	35.837
90.0	37.524	37.524	34.150	35.837	39.279	35.837	34.150	30.708	30.708	27.266

**Vert.
Angles**

Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1450.023	1451.642	1448.470	1446.918	1446.918	1440.574	1437.402	1440.574	1446.918	1446.918
5.0	1445.298	1445.298	1445.298	1439.022	1439.022	1439.022	1432.678	1439.022	1439.022	1439.022
7.5	1448.470	1445.298	1443.746	1439.022	1439.022	1440.574	1434.297	1440.574	1439.022	1439.022
10.0	1451.642	1450.023	1446.918	1446.918	1450.023	1450.023	1445.298	1450.023	1450.023	1446.918
12.5	1456.367	1456.367	1453.195	1454.814	1456.367	1456.367	1451.642	1456.367	1456.367	1454.814
15.0	1467.435	1469.055	1464.263	1464.263	1465.883	1465.883	1462.711	1465.883	1465.883	1464.263
17.5	1481.675	1476.951	1472.227	1472.227	1472.227	1475.399	1464.263	1475.399	1472.227	1472.227
20.0	1491.192	1486.467	1480.123	1469.055	1469.055	1470.607	1465.883	1470.607	1469.055	1469.055
22.5	1494.364	1489.639	1478.503	1465.883	1459.539	1461.091	1453.195	1461.091	1459.539	1465.883
25.0	1488.020	1478.503	1464.263	1445.298	1439.022	1437.402	1429.506	1437.402	1439.022	1445.298
27.5	1476.951	1456.367	1439.022	1424.781	1410.608	1401.160	1396.503	1401.160	1410.608	1424.781
30.0	1450.023	1426.401	1402.780	1380.778	1363.500	1352.567	1349.463	1352.567	1363.500	1380.778
32.5	1401.160	1379.226	1343.186	1324.424	1305.729	1291.759	1285.550	1291.759	1305.729	1324.424
35.0	1363.500	1324.424	1291.759	1263.818	1237.497	1220.489	1212.795	1220.489	1237.497	1263.818
37.5	1291.759	1251.400	1218.937	1194.506	1158.466	1138.691	1133.292	1138.691	1158.466	1194.506
40.0	1209.691	1158.466	1135.114	1084.767	1063.237	1045.353	1039.953	1045.353	1063.237	1084.767
42.5	1117.094	1050.752	1022.069	973.813	955.996	938.111	931.025	938.111	955.996	973.813
45.0	993.453	925.693	904.299	868.731	843.895	829.655	819.059	829.655	843.895	868.731
47.5	854.491	806.640	774.718	742.930	712.897	693.527	681.177	693.527	712.897	742.930
50.0	719.983	672.403	612.607	575.757	540.730	516.231	502.261	516.231	540.730	575.757
52.5	563.474	491.800	444.692	399.406	375.109	357.764	343.862	357.764	375.109	399.406
55.0	399.406	333.468	302.288	274.617	259.094	252.210	247.013	252.210	259.094	274.617
57.5	279.814	243.571	233.178	231.491	233.178	231.491	228.049	231.491	233.178	231.491
60.0	224.607	217.723	222.852	219.410	221.165	215.968	210.771	215.968	221.165	219.410
62.5	198.758	202.200	203.887	207.329	205.642	205.642	197.003	205.642	205.642	207.329
65.0	183.235	184.990	186.677	191.874	191.874	183.235	178.106	183.235	191.874	191.874
67.5	169.467	176.351	176.351	174.664	169.467	164.338	157.454	164.338	169.467	174.664
70.0	164.338	164.338	152.325	150.570	147.128	141.999	135.115	141.999	147.128	150.570
72.5	138.557	128.298	126.544	129.986	128.298	119.727	112.843	119.727	128.298	129.986
75.0	119.727	114.531	116.285	117.973	117.973	105.959	99.143	105.959	117.973	117.973
77.5	102.585	105.959	104.272	105.959	100.830	90.572	82.000	90.572	100.830	105.959
80.0	97.388	97.388	88.884	87.130	85.442	70.055	59.729	70.055	85.442	87.130
82.5	73.429	73.429	75.184	73.429	76.871	61.483	46.096	61.483	76.871	73.429
85.0	54.599	56.354	58.041	59.729	63.171	64.925	46.096	64.925	63.171	59.729
87.5	39.279	46.096	52.912	64.925	59.729	40.966	23.891	40.966	59.729	64.925
90.0	29.021	30.708	39.279	35.837	27.266	15.320	10.258	15.320	27.266	35.837

**Vert.
Angles**

Horizontal Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1448.470	1451.642	1450.023	1446.918	1445.298	1440.574	1442.126	1446.918	1445.298	1446.918
5.0	1445.298	1445.298	1445.298	1443.746	1442.126	1440.574	1445.298	1446.918	1450.023	1446.918
7.5	1443.746	1445.298	1448.470	1445.298	1445.298	1445.298	1450.023	1450.023	1451.642	1448.470
10.0	1446.918	1450.023	1451.642	1450.023	1451.642	1451.642	1456.367	1454.814	1451.642	1454.814
12.5	1453.195	1456.367	1456.367	1454.814	1459.539	1462.711	1462.711	1462.711	1459.539	1459.539
15.0	1464.263	1469.055	1467.435	1464.263	1469.055	1469.055	1469.055	1470.607	1469.055	1469.055
17.5	1472.227	1476.951	1481.675	1481.675	1481.675	1481.675	1483.295	1480.123	1481.675	1480.123
20.0	1480.123	1486.467	1491.192	1491.192	1491.192	1494.364	1497.603	1495.983	1495.983	1497.603
22.5	1478.503	1489.639	1494.364	1499.155	1502.327	1510.291	1513.463	1510.291	1511.843	1515.083
25.0	1464.263	1478.503	1488.020	1500.775	1503.947	1516.635	1522.979	1526.219	1529.391	1538.907
27.5	1439.022	1456.367	1476.951	1491.192	1502.327	1522.979	1534.183	1543.699	1548.491	1556.522
30.0	1402.780	1426.401	1450.023	1472.227	1494.364	1522.979	1535.735	1556.522	1570.897	1582.101

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CANDELA TABULATION - (Cont.)

32.5	1343.186	1379.226	1401.160	1445.298	1470.607	1510.291	1535.735	1566.105	1590.064	1604.507
35.0	1291.759	1324.424	1363.500	1390.159	1435.850	1491.192	1522.979	1558.074	1596.476	1622.190
37.5	1218.937	1251.400	1291.759	1332.253	1394.883	1454.814	1494.364	1538.907	1596.476	1626.981
40.0	1135.114	1158.466	1209.691	1262.265	1326.044	1394.883	1448.470	1513.463	1585.273	1639.872
42.5	1022.069	1050.752	1117.094	1185.529	1249.847	1327.596	1391.779	1472.227	1569.277	1643.112
45.0	904.299	925.693	993.453	1066.882	1156.711	1226.698	1322.871	1426.401	1542.147	1659.242
47.5	774.718	806.640	854.491	934.602	1016.737	1126.071	1229.735	1355.672	1503.947	1649.591
50.0	612.607	672.403	719.983	788.891	879.395	982.722	1122.494	1266.922	1448.470	1635.080
52.5	444.692	491.800	563.474	653.033	728.825	840.318	979.145	1174.663	1390.159	1615.778
55.0	302.288	333.468	399.406	488.290	586.286	679.422	840.318	1048.930	1304.177	1578.861
57.5	233.178	243.571	279.814	350.813	444.692	540.730	688.263	920.294	1205.101	1538.907
60.0	222.852	217.723	224.607	252.210	319.633	413.309	538.975	762.367	1083.012	1508.671
62.5	203.887	202.200	198.758	207.329	238.375	324.829	432.476	602.078	927.448	1459.539
65.0	186.677	184.990	183.235	188.432	203.887	265.978	356.010	469.056	778.295	1369.777
67.5	176.351	176.351	169.467	169.467	186.677	212.526	285.010	385.503	638.928	1209.691
70.0	152.325	164.338	164.338	162.651	169.467	195.316	245.259	333.468	523.250	968.482
72.5	126.544	128.298	138.557	152.325	166.025	184.990	215.968	255.652	413.309	702.301
75.0	116.285	114.531	119.727	129.986	155.767	164.338	162.651	178.106	247.013	413.309
77.5	104.272	105.959	102.585	112.843	123.102	131.740	126.544	131.740	162.651	207.329
80.0	88.884	97.388	97.388	90.572	94.014	94.014	95.701	100.830	107.714	124.857
82.5	75.184	73.429	73.429	68.300	71.742	70.055	75.184	76.871	80.313	82.000
85.0	58.041	56.354	54.599	52.912	51.225	54.599	56.354	59.729	66.613	63.171
87.5	52.912	46.096	39.279	35.837	35.837	37.524	40.966	49.538	51.225	47.783
90.0	39.279	30.708	29.021	27.266	30.708	30.708	34.150	35.837	39.279	35.837

**Vert.
Angles**

Horizontal Angles

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1445.298	1445.298	1446.918	1451.642	1451.642	1448.470	1448.470	1453.195	1451.642	1456.367
5.0	1446.918	1446.918	1445.298	1451.642	1456.367	1456.367	1459.539	1464.263	1467.435	1469.055
7.5	1451.642	1450.023	1448.470	1450.023	1459.539	1467.435	1469.055	1473.779	1481.675	1481.675
10.0	1451.642	1457.986	1456.367	1456.367	1469.055	1478.503	1481.675	1488.020	1494.364	1499.155
12.5	1465.883	1465.883	1464.263	1469.055	1481.675	1494.364	1500.775	1510.291	1516.635	1522.979
15.0	1472.227	1476.951	1476.951	1481.675	1497.603	1510.291	1522.979	1532.563	1545.319	1556.522
17.5	1483.295	1494.364	1494.364	1502.327	1515.083	1530.943	1551.730	1561.314	1580.481	1598.096
20.0	1500.775	1513.463	1516.635	1529.391	1540.527	1559.694	1578.861	1596.476	1623.809	1647.971
22.5	1521.427	1529.391	1540.527	1556.522	1570.897	1593.304	1622.190	1644.731	1676.992	1711.006
25.0	1540.527	1551.730	1569.277	1591.684	1606.127	1633.460	1673.752	1701.288	1732.131	1789.160
27.5	1561.314	1574.069	1596.476	1623.809	1649.591	1668.893	1715.866	1763.041	1818.653	1864.614
30.0	1588.512	1598.096	1620.570	1665.721	1686.710	1730.511	1790.780	1838.293	1904.230	1968.886
32.5	1614.158	1628.601	1657.622	1701.288	1748.396	1792.399	1861.307	1942.295	2012.214	2075.857
35.0	1641.492	1659.242	1689.950	1745.089	1808.799	1876.155	1970.573	2065.801	2138.218	2158.533
37.5	1667.273	1698.048	1741.849	1812.039	1899.236	1997.164	2109.535	2190.793	2233.312	2229.937
40.0	1701.288	1741.849	1805.492	1902.543	2023.890	2168.724	2282.917	2331.037	2329.282	2289.801
42.5	1725.584	1792.399	1894.309	2039.008	2217.991	2391.441	2476.613	2473.104	2448.740	2363.770
45.0	1767.901	1869.540	2010.527	2228.250	2460.888	2648.915	2682.660	2645.406	2558.883	2410.473
47.5	1798.946	1950.596	2156.845	2469.594	2779.103	2950.730	2930.753	2833.028	2663.155	2452.182
50.0	1833.366	2042.315	2325.840	2770.127	3139.837	3285.143	3223.457	3031.178	2773.704	2485.319
52.5	1864.614	2143.347	2578.253	3173.245	3594.652	3710.600	3544.710	3257.067	2907.132	2532.562
55.0	1895.929	2325.840	2936.220	3735.841	4244.311	4270.700	3979.548	3533.236	3062.359	2544.845
57.5	1957.277	2560.638	3527.500	4448.603	5018.624	4973.608	4556.115	3969.627	3277.652	2509.818
60.0	2059.120	2887.222	4017.342	5031.582	5521.829	5437.467	4937.231	4266.650	3390.563	2300.059
62.5	2123.033	3128.769	4393.127	5316.187	5608.959	5535.192	4952.214	4376.727	3275.762	1910.844
65.0	2104.473	3138.015	4252.410	5057.363	5217.787	5172.029	4683.334	4089.219	2780.858	1390.159
67.5	1872.848	2788.079	3878.785	4756.898	4860.562	4856.310	4450.696	3635.079	1995.544	884.726
70.0	1469.055	2370.654	3407.570	4270.700	4242.286	4161.501	3577.307	2485.319	1294.863	610.852
72.5	1059.660	1798.946	2643.651	3215.966	3049.468	2887.222	2286.359	1609.367	801.309	371.600
75.0	635.418	1106.364	1662.481	2096.037	1957.277	1835.053	1543.699	1068.637	488.290	228.049
77.5	314.436	512.722	849.159	1283.997	1206.586	1151.312	993.453	667.071	328.271	155.767

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CANDELA TABULATION - (Cont.)

80.0	147.128	200.445	343.862	642.437	702.301	660.052	603.833	413.309	215.968	109.401
82.5	87.130	97.388	148.883	248.701	354.255	354.255	352.568	245.259	150.570	85.442
85.0	66.613	68.300	85.442	121.415	172.909	178.106	178.106	128.298	85.442	63.171
87.5	51.225	51.225	61.483	82.000	90.572	87.130	95.701	75.184	59.729	46.096
90.0	34.150	37.524	37.524	40.966	44.408	46.096	47.783	46.096	35.837	34.150

Vert. Horizontal Angles

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337	1470.337
2.5	1456.367	1454.814	1453.195	1456.367	1454.814	1454.814	1453.195	1456.367	1453.195	1453.195
5.0	1470.607	1472.227	1472.227	1472.227	1476.951	1472.227	1470.607	1475.399	1478.503	1475.399
7.5	1486.467	1488.020	1491.192	1494.364	1497.603	1505.499	1502.327	1505.499	1510.291	1505.499
10.0	1505.499	1510.291	1521.427	1526.219	1532.563	1537.355	1545.319	1543.699	1543.699	1546.938
12.5	1534.183	1542.147	1558.074	1567.658	1575.689	1580.481	1590.064	1586.892	1591.684	1594.924
15.0	1574.069	1588.512	1602.888	1617.398	1625.429	1633.460	1636.700	1643.112	1647.971	1651.143
17.5	1617.398	1635.080	1647.971	1668.893	1681.851	1691.569	1699.668	1704.527	1715.866	1722.345
20.0	1673.752	1698.048	1712.626	1733.751	1746.776	1767.901	1782.613	1790.780	1800.633	1812.039
22.5	1730.511	1774.447	1790.780	1818.653	1835.053	1856.380	1867.921	1871.228	1881.081	1892.622
25.0	1815.346	1862.994	1887.695	1909.157	1920.765	1930.686	1937.300	1935.681	1938.988	1947.289
27.5	1909.157	1953.903	1973.880	1985.556	1988.863	1985.556	1982.181	1973.880	1967.199	1970.573
30.0	2010.527	2037.321	2044.002	2040.628	2027.265	2010.527	1997.164	1977.187	1962.204	1958.897
32.5	2092.730	2099.411	2092.730	2067.489	2042.315	2018.896	1975.567	1940.675	1915.771	1904.230
35.0	2158.533	2139.905	2119.658	2072.550	2028.952	1978.874	1912.464	1882.769	1836.673	1820.273
37.5	2212.862	2172.098	2119.658	2054.058	1985.556	1919.078	1839.980	1798.946	1736.990	1714.246
40.0	2255.516	2173.785	2092.730	2002.226	1912.464	1818.653	1732.131	1678.611	1615.778	1582.101
42.5	2272.658	2156.845	2045.689	1914.151	1803.873	1696.429	1596.476	1529.391	1453.195	1409.056
45.0	2272.658	2117.971	1963.892	1807.180	1678.611	1532.563	1412.228	1324.424	1245.191	1194.506
47.5	2258.958	2048.996	1851.453	1651.143	1476.951	1302.624	1174.663	1059.660	968.482	913.207
50.0	2235.066	1967.199	1689.950	1424.781	1220.489	1006.006	877.640	771.208	709.387	681.177
52.5	2178.915	1812.039	1457.986	1140.514	870.486	718.229	609.097	540.730	491.800	474.320
55.0	2057.433	1561.314	1133.292	772.963	575.757	456.907	389.012	354.255	338.665	335.223
57.5	1825.200	1183.707	735.843	484.781	347.371	295.404	274.617	262.536	253.897	250.455
60.0	1434.297	765.877	432.476	309.239	247.013	243.571	241.817	238.375	233.178	231.491
62.5	1009.583	488.290	312.681	226.294	222.852	229.736	234.933	228.049	219.410	212.526
65.0	631.909	364.716	234.933	200.445	209.084	221.165	217.723	205.642	191.874	183.235
67.5	460.349	279.814	186.677	183.235	195.316	200.445	200.445	183.235	169.467	162.651
70.0	347.371	228.049	167.780	162.651	169.467	179.793	183.235	178.106	169.467	160.896
72.5	236.687	179.793	143.754	169.467	178.106	172.909	167.780	155.767	141.999	126.544
75.0	148.883	124.857	128.298	162.651	152.325	143.754	145.441	140.312	128.298	112.843
77.5	112.843	107.714	119.727	131.740	121.415	128.298	133.428	129.986	114.531	97.388
80.0	97.388	94.014	107.714	100.830	100.830	111.156	129.986	136.870	121.415	100.830
82.5	76.871	76.871	80.313	80.313	82.000	100.830	119.727	128.298	114.531	87.130
85.0	59.729	54.599	61.483	59.729	76.871	126.544	133.428	105.959	80.313	70.055
87.5	44.408	42.654	46.096	49.538	66.613	133.428	133.428	100.830	70.055	52.912
90.0	30.708	32.395	32.395	35.837	49.538	97.388	100.830	87.130	70.055	46.096

Vert. Horizontal Angles

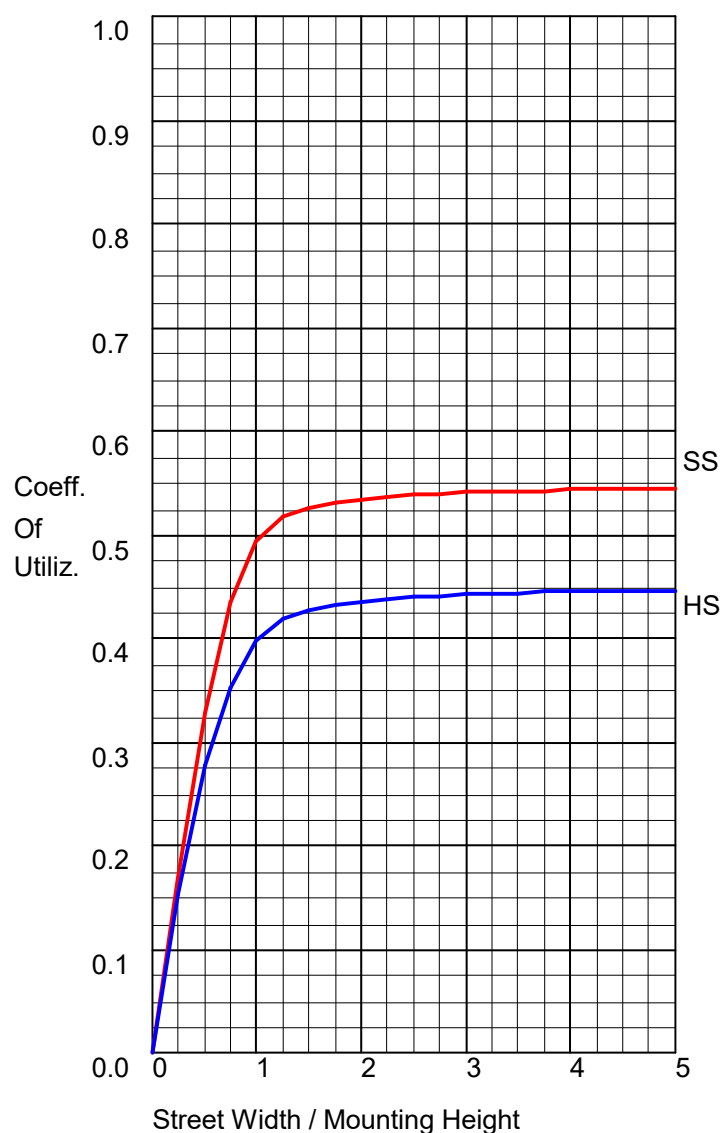
	<u>350</u>	<u>355</u>	<u>360</u>
0.0	1470.337	1470.337	1470.337
2.5	1459.539	1465.883	1456.367
5.0	1475.399	1476.951	1472.227
7.5	1505.499	1500.775	1502.327
10.0	1543.699	1532.563	1546.938
12.5	1586.892	1582.101	1593.304
15.0	1644.731	1646.351	1649.591
17.5	1717.486	1719.105	1720.725
20.0	1815.346	1812.039	1807.180
22.5	1897.616	1899.236	1891.002

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CANDELA TABULATION - (Cont.)

25.0	1958.897	1958.897	1947.289
27.5	1978.874	1983.869	1975.567
30.0	1963.892	1962.204	1965.579
32.5	1904.230	1895.929	1909.157
35.0	1818.653	1810.419	1820.273
37.5	1714.246	1699.668	1712.626
40.0	1575.689	1570.897	1577.309
42.5	1401.160	1394.883	1390.159
45.0	1180.063	1176.486	1171.086
47.5	902.544	898.967	895.390
50.0	670.648	668.826	663.562
52.5	462.104	462.104	455.153
55.0	330.026	328.271	324.829
57.5	250.455	247.013	248.701
60.0	226.294	224.607	224.607
62.5	210.771	209.084	207.329
65.0	181.548	186.677	184.990
67.5	160.896	164.338	164.338
70.0	152.325	159.209	152.325
72.5	117.973	117.973	117.973
75.0	100.830	97.388	97.388
77.5	87.130	78.558	85.442
80.0	80.313	68.300	75.184
82.5	59.729	51.225	52.912
85.0	51.225	40.966	46.096
87.5	37.524	34.150	34.150
90.0	32.395	23.891	25.579

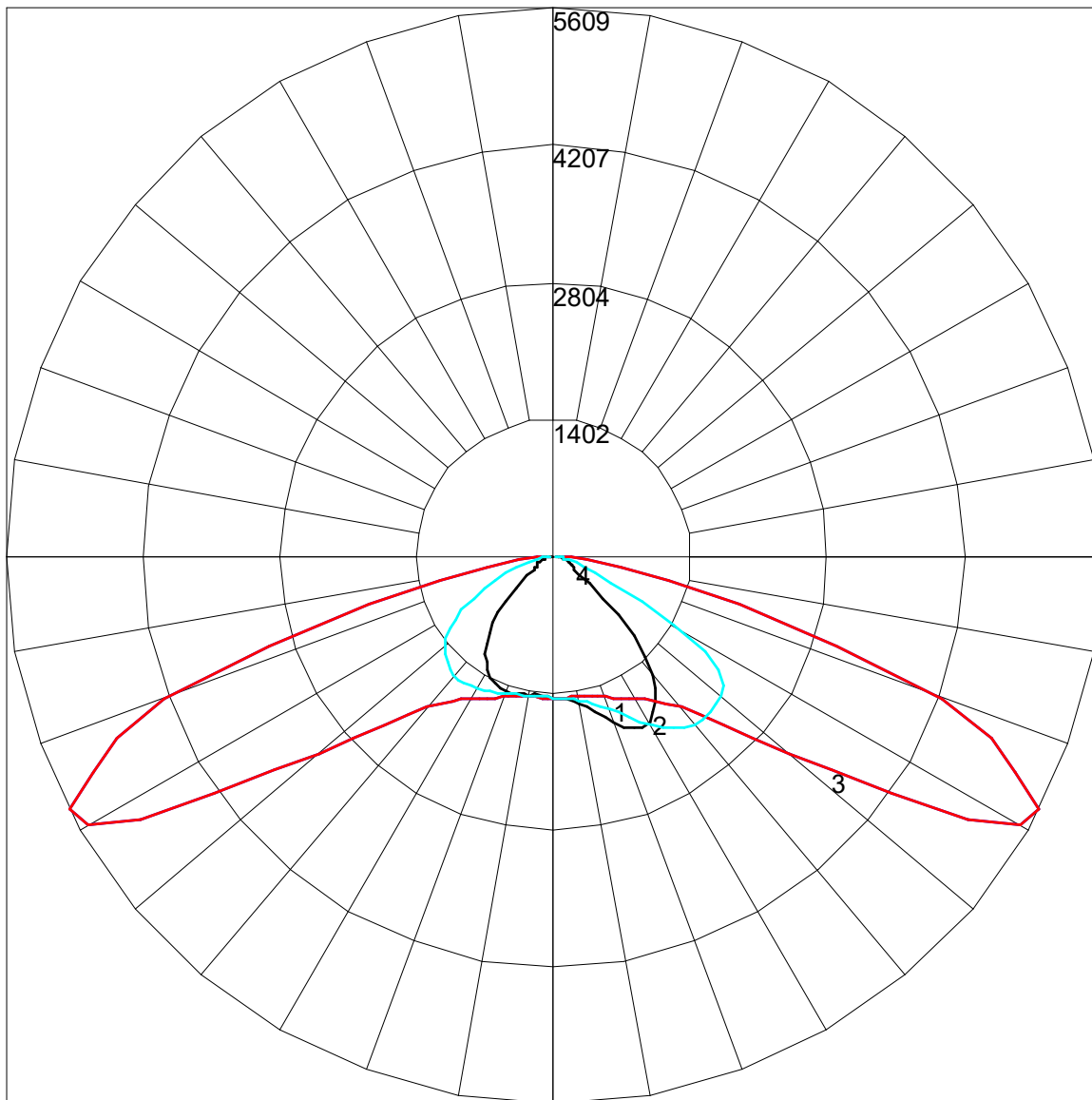
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	3734.2	55.0
Downward House Side	3058.9	45.0
Downward Total	6793.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6793.1	100.0

POLAR GRAPH



Maximum Candela = 5608.959 Located At Horizontal Angle = 90, Vertical Angle = 62.5

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (0 - 180)

3 - Vertical Plane Through Horizontal Angles (90 - 270)

4 - Vertical Plane Through Horizontal Angles (60 - 240)

ISOLUX LINES OF HORIZONTAL ILLUMINANCE

