

PHOTOMETRIC FILENAME : E18184.IES

DESCRIPTION

IESNA:LM-63-1995
[TEST] 18184
[MANUFAC]ESCO LIGHTING - INDUCTION FLOODLIGHT LUMINAIRE
[LUMCAT]FL80
[LUMINAIRE]WITH SPECULAR REFLECTOR AND CLEAR FLAT GLASS LENS
[LAMP]ONE PHILIPS 85 WATT INDUCTION LAMP
[LAMP]ONE PHILIPS 85W/840. LUMEN RATING: 6000 Lms.
[OTHER]ONE PHILIPS QL85WS/13 GENERATOR OPERATING AT 120 VAC AND 95 WATTS

ROAD REPORT CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Cutoff Classification	Cutoff
Rated Total Lamp Lumens	6000
Maximum Candela	1810.8
Maximum Candela Angle	45 H 20 V
Maximum Candela at 90 Degrees Vertical	0
Maximum Candela at 80 Degrees Vertical	115.7
Downward Total Efficiency	77.8 %

CANDELA TABULATION

	0	5	15	25	35	45	55	60	62.5	65
0	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3
2.5	1509.9	1511.3	1514.9	1518.8	1520.9	1519.1	1517.4	1515.6	1514	1513.7
5	1548.2	1551.8	1562.3	1570.1	1571.9	1566.4	1560.5	1556.2	1554.2	1552.4
7.5	1587.2	1589.8	1606	1613.3	1615.8	1611.4	1593.6	1581.4	1575.1	1569.5
10	1623.6	1628.7	1646.1	1654.6	1655.8	1637.2	1608.4	1594.6	1587.7	1580.7
12.5	1664.3	1667.5	1689	1693.5	1687.2	1678.2	1662.2	1650.4	1642.5	1635.1
15	1704.5	1702	1728.2	1733	1740.3	1739	1719.5	1702.2	1691.1	1679.8
17.5	1709.9	1704.3	1734.5	1759	1791.8	1783.6	1752.3	1729.8	1715.7	1700.4
20	1677.6	1672.2	1707.9	1755.7	1804.9	1810.8	1762.5	1711.2	1687.5	1667.7
22.5	1615.2	1607.5	1645.3	1713.5	1778.7	1803.1	1733	1694.7	1680	1666.6
25	1520	1511.7	1560.1	1641.6	1716.3	1742.6	1733.6	1701.8	1684.2	1669.8
27.5	1403.7	1390.6	1449.3	1540.7	1617.1	1680.6	1714.1	1685.9	1663.8	1645.3
30	1283.9	1269.6	1328.8	1425.7	1502.7	1606.4	1665.9	1659.9	1652.8	1641.6
32.5	1172	1158.2	1209.1	1299	1391.2	1524.5	1619.9	1648.2	1645	1630.6
35	1089.3	1074	1109.1	1190.2	1293.9	1440.3	1570.4	1595	1593.1	1579.9
37.5	1029.9	1016.2	1033.9	1089.2	1190.4	1351.7	1490.9	1525.5	1526.9	1522.1
40	994.6	981.7	985.3	1013.1	1093.7	1251	1405.7	1461	1478.4	1486.5
42.5	965.9	952	953	955.1	1010.4	1146.1	1318.4	1402	1437.1	1459.3
45	933	917.9	922.1	918.3	952.6	1064.4	1246.8	1339.1	1374.1	1396.1
47.5	894	877.4	882.3	882	902.9	996.9	1164.7	1239.6	1268.3	1291.2
50	843.7	826.3	834.4	837.7	849.3	932.9	1062.1	1126.4	1154.2	1174.6
52.5	787.2	768.5	777.7	786.1	795.5	858.3	975.2	1027.6	1050.3	1066.9
55	717.8	702	711.8	724.1	731.9	781	888.2	932.3	950.6	967.6
57.5	648.8	635.7	644.4	656.7	668.1	706.4	804.1	850.8	868.5	886.3
60	577.7	563.8	571.4	584.3	599.1	626.4	709.1	755.8	772.3	787
62.5	509.9	494.4	500	511.7	527.9	554	606.4	648.6	668.3	685.4
65	436.8	419.8	425.8	434.1	449.1	477.7	505.8	533.9	554	572.3
67.5	363.7	348.1	352.6	357.7	370.1	399.8	421.8	430.3	442.2	457.2
70	289.3	276.6	280.4	282.8	291.5	319.6	335.2	339.5	340.1	345.8
72.5	220.6	207.2	209.2	209	214.6	236.4	247.1	249.7	250.8	252
75	157.5	147.5	147.1	144.5	148	164.9	172	172.6	172.9	174.1
77.5	101.4	92.6	91.8	88.2	89.7	103.2	107.6	107	107	107
80	56.9	50.1	49.4	47.7	48	56.1	61.1	60	58.5	57.3
82.5	22.3	18	18	18.4	18.7	22.5	25.5	25.2	23.7	22.2
85	4.2	3.1	3.3	3.3	3.9	5.4	6.6	6.4	6.1	5.4
87.5	2	2	1.2	1.2	0.7	0.7	1	1	1	1
90	0	0	0	0	0	0	0	0	0	0

	67.5	70	72.5	75	77.5	80	82.5	85	87.5	90
0	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3
2.5	1513.5	1511.7	1510.2	1509.6	1508.4	1506.8	1505.7	1504.4	1503.3	1502.1
5	1550.3	1547.2	1544.7	1541.8	1539.5	1536.2	1533.3	1530.3	1527.5	1524.3
7.5	1563.4	1556.8	1551.2	1545.9	1540.7	1535.3	1530.4	1525.8	1521.2	1517.1
10	1574.6	1567.4	1560.1	1552.6	1545.5	1538.7	1531.7	1526	1519.6	1514.2

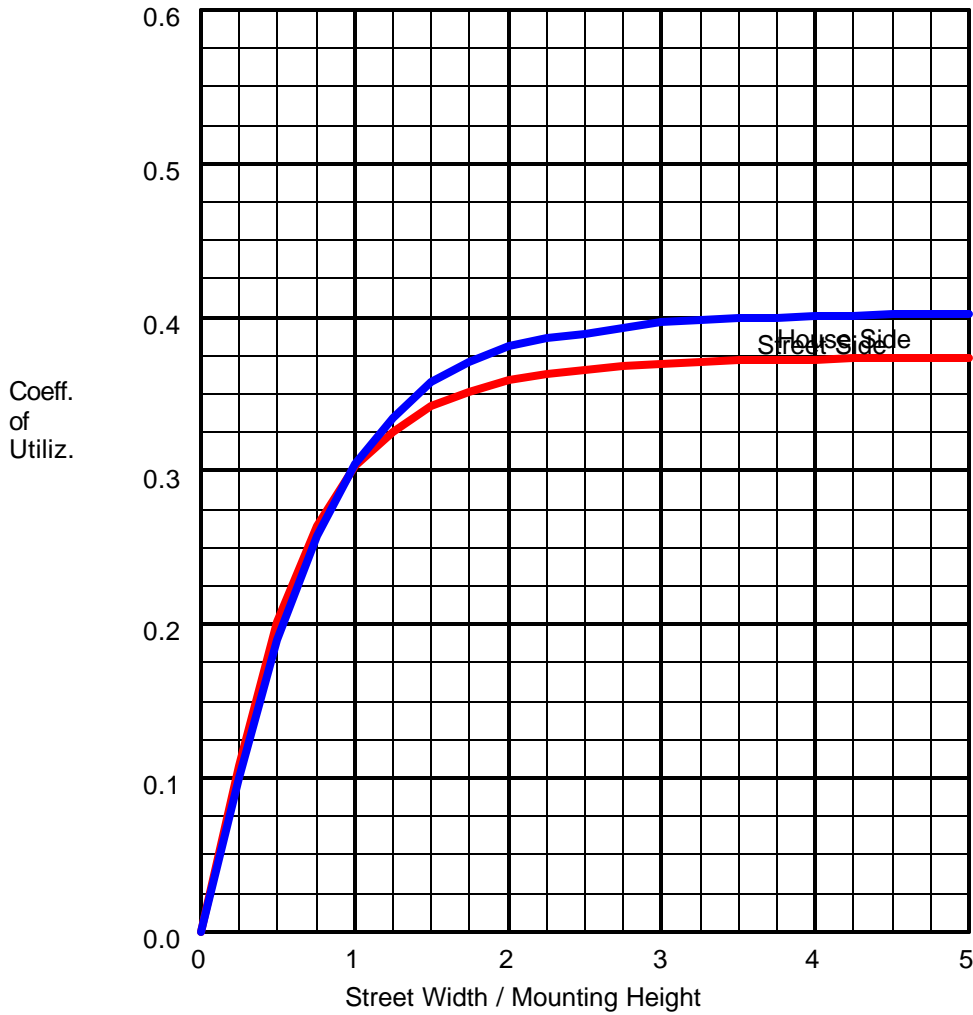
CANDELA TABULATION (Cont.)

12.5	1627	1617.3	1607.5	1597.1	1586.3	1575.8	1565.3	1555.7	1546.9	1539.1
15	1668	1655.5	1644.1	1631.4	1619.8	1606.9	1596.4	1584.7	1574.9	1567.4
17.5	1682.7	1664.4	1646.4	1627.4	1609.6	1593	1578.2	1564.4	1554	1543.9
20	1649.5	1632.4	1616.2	1599.6	1583.6	1567	1552.4	1537.4	1523.7	1511.9
22.5	1653.9	1640.7	1628.2	1614.1	1599.5	1582.6	1566.1	1549.1	1533.5	1519.8
25	1655.3	1641.7	1626	1608.7	1591.1	1574	1558.4	1543.2	1529.6	1518.5
27.5	1627.4	1612.4	1600	1588.4	1576.3	1562.2	1547.9	1532.3	1517.9	1505.7
30	1629.9	1621	1610.8	1597.9	1583	1564.1	1545.4	1525.8	1509	1495.1
32.5	1611.9	1593.1	1574.5	1555.6	1538	1520.3	1498.5	1475.3	1454.7	1436.4
35	1558.9	1538.5	1519.6	1499.3	1480.5	1460.7	1437.7	1411.3	1388.8	1369
37.5	1506.5	1486.3	1468.8	1452.6	1435	1413.7	1388.8	1362.8	1340.6	1322.3
40	1483.2	1470.1	1454.4	1437.7	1420	1397.8	1373.5	1346	1321.7	1301.4
42.5	1465.4	1457.7	1441.2	1421.2	1399	1371.2	1343.3	1311.5	1284.9	1264.2
45	1400.9	1392.2	1370.2	1346	1323	1296.8	1270.4	1240.5	1219.9	1204.3
47.5	1299	1294.5	1275.8	1254.4	1232.6	1210.9	1187.9	1164.4	1148.3	1133.9
50	1181.8	1180	1167.1	1146.1	1127	1106.6	1090.7	1071.5	1057.2	1043.1
52.5	1072.2	1069.5	1060.3	1047.4	1036.2	1025.8	1014.6	997.6	982	969.2
55	978.5	983.8	983.8	976.9	969.1	961.4	952.4	938.9	925.8	916.1
57.5	897.3	902.3	903.3	895.7	885.9	874.7	865.2	854.1	844.8	836.4
60	799.3	804.1	804.9	797.5	786.6	773.5	762.7	751.4	743.3	737.9
62.5	696.3	701.1	702.2	694.9	684.2	668.7	654.6	641.4	633.6	627
65	583.6	589.8	591	585.4	572.5	556.4	539	521.4	508.5	500
67.5	469.2	478.2	482.7	477.9	467.6	452.4	433.9	411.7	392.9	378.4
70	355.3	365.5	373.4	372.8	365.8	353	338.5	317.9	300.9	290.1
72.5	251.7	257.1	267.9	271.8	268.2	258.9	250.2	237.9	227.7	220.9
75	173.7	172	177.3	181.6	180.7	174.4	167.5	162.2	158.3	155.6
77.5	105.9	105.2	105.9	106.4	105.9	102.6	99.5	97.7	96.8	95.3
80	55.7	55.2	55.5	55.2	55.2	55	54	53.7	53.4	53.1
82.5	20.4	19.3	19.3	19.9	20.5	21.7	22.2	22	22.2	22.2
85	4.5	3.6	3.3	3.9	5.2	5.8	5.8	5.8	6	6
87.5	1	1	1.2	1.2	1	1.2	1	1	1.2	1.2
90	0	0	0	0	0	0	0	0	0	0
	95	105	115	125	135	145	155	165	175	180
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0	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3	1476.3
2.5	1498.8	1494.2	1489	1484.7	1480.7	1477.2	1473.5	1469.9	1469.3	1478
5	1518.5	1509.2	1502.7	1496.1	1493.1	1491.3	1489.8	1483.6	1477.4	1491.3
7.5	1510.8	1502.5	1500	1501.1	1502.7	1503	1505.9	1507.2	1500.4	1514.6
10	1504.8	1492.2	1486.8	1487.6	1498.8	1515	1524.3	1537.4	1531.9	1545.3
12.5	1528.1	1517.1	1512.3	1505.3	1497.9	1509.8	1529.6	1554.7	1556.3	1564.9
15	1554.7	1547	1551.2	1550.3	1533.1	1509.2	1521.8	1548.7	1568.8	1574
17.5	1533.3	1540.4	1574.9	1595.8	1579.6	1527.9	1509	1536	1577.6	1581.8
20	1495.2	1494	1527.9	1602.7	1624.9	1557.8	1500.9	1525.5	1582	1583.6
22.5	1498.4	1482.6	1500.3	1553.6	1630.8	1586.9	1510.6	1519.4	1569.2	1567.4
25	1502.3	1489.8	1497.1	1524.2	1588.2	1601.2	1528.1	1514.6	1534.5	1526.6
27.5	1488.8	1490.4	1500.5	1507.5	1554.2	1591.4	1535.6	1505	1480.5	1468

CANDELA TABULATION (Cont.)

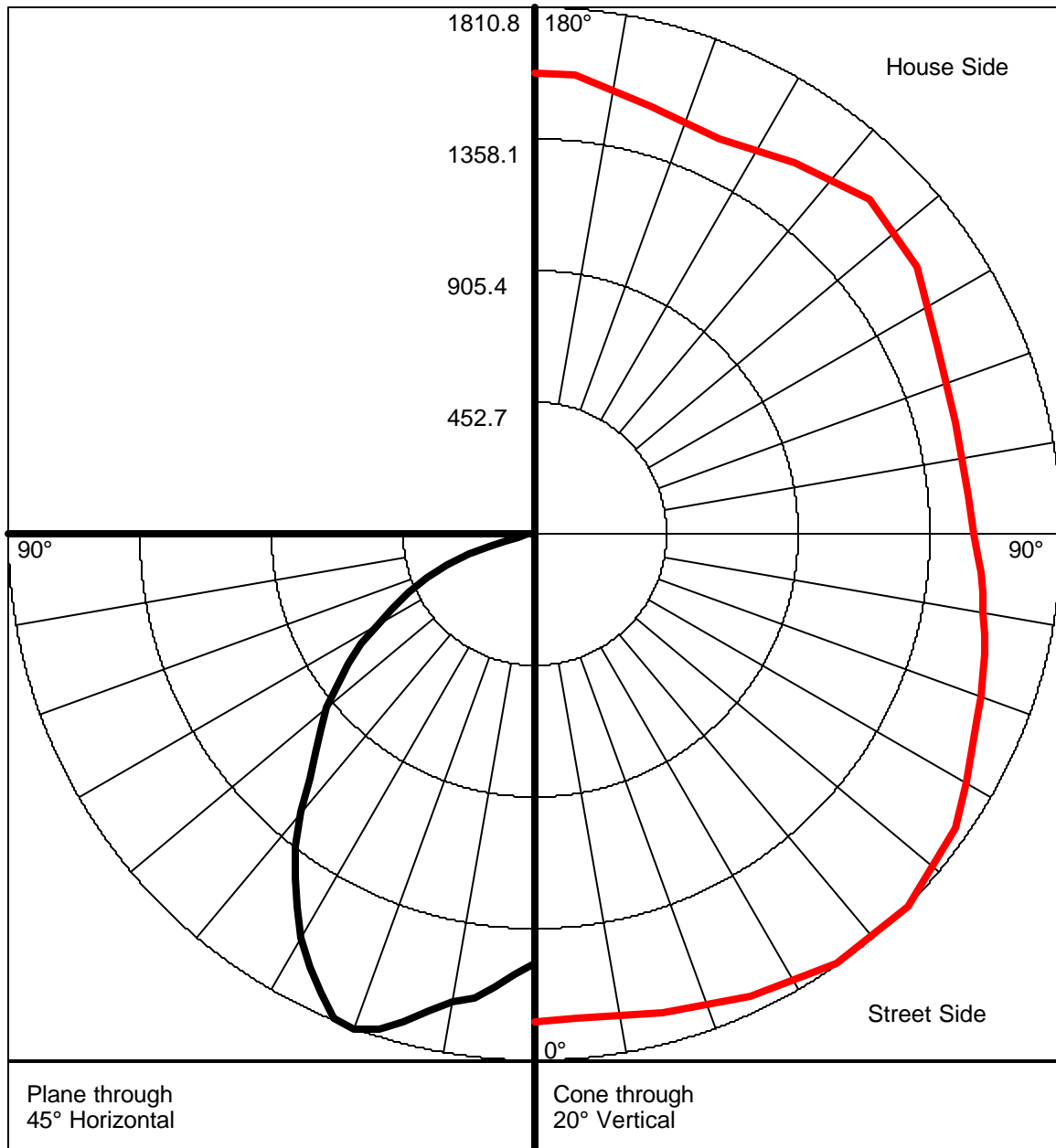
30	1476.8	1482.6	1487.5	1486.5	1532.9	1557.4	1523.1	1490.3	1422.7	1411.5
32.5	1414	1432.6	1471.2	1472	1484.9	1506.5	1488	1463.4	1360.6	1346.3
35	1347.1	1376.8	1430.8	1456	1439.1	1437.1	1429.2	1429.6	1313	1291.8
37.5	1302.6	1332.5	1382.8	1414.9	1405.7	1377.8	1366.9	1400.5	1290.1	1254.7
40	1281	1307.6	1339.8	1370.6	1363.3	1308.2	1310.1	1367.9	1287.9	1253.5
42.5	1248.6	1293.9	1312.5	1321.4	1288.2	1247.7	1257.9	1340	1291.2	1258.2
45	1190.8	1235.5	1293.6	1276.2	1205.2	1200.4	1234.9	1310.3	1277.1	1245.7
47.5	1123.4	1164.2	1227	1230.7	1135.1	1156.3	1218	1262.1	1252.2	1222.3
50	1038	1083.8	1140.5	1142	1086.3	1104.3	1194.4	1207	1212.8	1179.1
52.5	966.1	1000.3	1048.2	1039.5	1028.5	1046.5	1171	1141.4	1141.4	1103.1
55	914.6	947.5	956	922.7	929.6	985.5	1138.4	1044.7	1008.7	974.7
57.5	836.8	882	896.3	811.9	814.6	930.6	1073	933.3	852	821.4
60	741.7	796.6	817.3	726.5	699.5	854.4	964.1	812.5	689.1	663.3
62.5	634.2	703.8	724.4	642.1	617.4	760.2	857.1	692.4	571.3	553.6
65	512.9	599.8	623.2	550.4	558.5	660.9	724.4	575.2	501	492.5
67.5	398.5	495.6	518	453.3	481.7	569.8	597.7	493.5	449.1	439.8
70	299.4	387.1	409.8	350.1	384.7	490.2	500.4	427	384.4	374
72.5	222.9	282.2	298.2	256.4	282.8	384.2	399.8	347.5	309	297.2
75	160.2	193.5	207.7	172	199.3	267.4	294.8	264.5	238.3	222.8
77.5	99.3	114.7	121.4	107.2	131.7	160.2	195.1	180.6	164.3	149.9
80	54.8	63.3	65.9	61.2	75.3	88.8	115.7	109.2	100.1	88.8
82.5	23.4	26.4	28.2	25.2	29.1	36.3	49.8	49.2	45.6	37.3
85	6.4	7.6	7.9	6	6.4	7.5	11	12	11.2	7.4
87.5	1.2	1	1	1.2	1.2	2	2	2.2	2.7	2.5
90	0	0	0	0	0	0	0	0	0	0

COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



	Lumens	Percent of Lamp
Downward Street Side	2246	37.4
Downward House Side	2424	40.4
Downward Total	4670	77.8
Upward Street Side	0	.0
Upward House Side	0	.0
Upward Total	0	.0
Total Flux	4670	77.8

POLAR GRAPH



ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION

