

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P837725

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837725
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

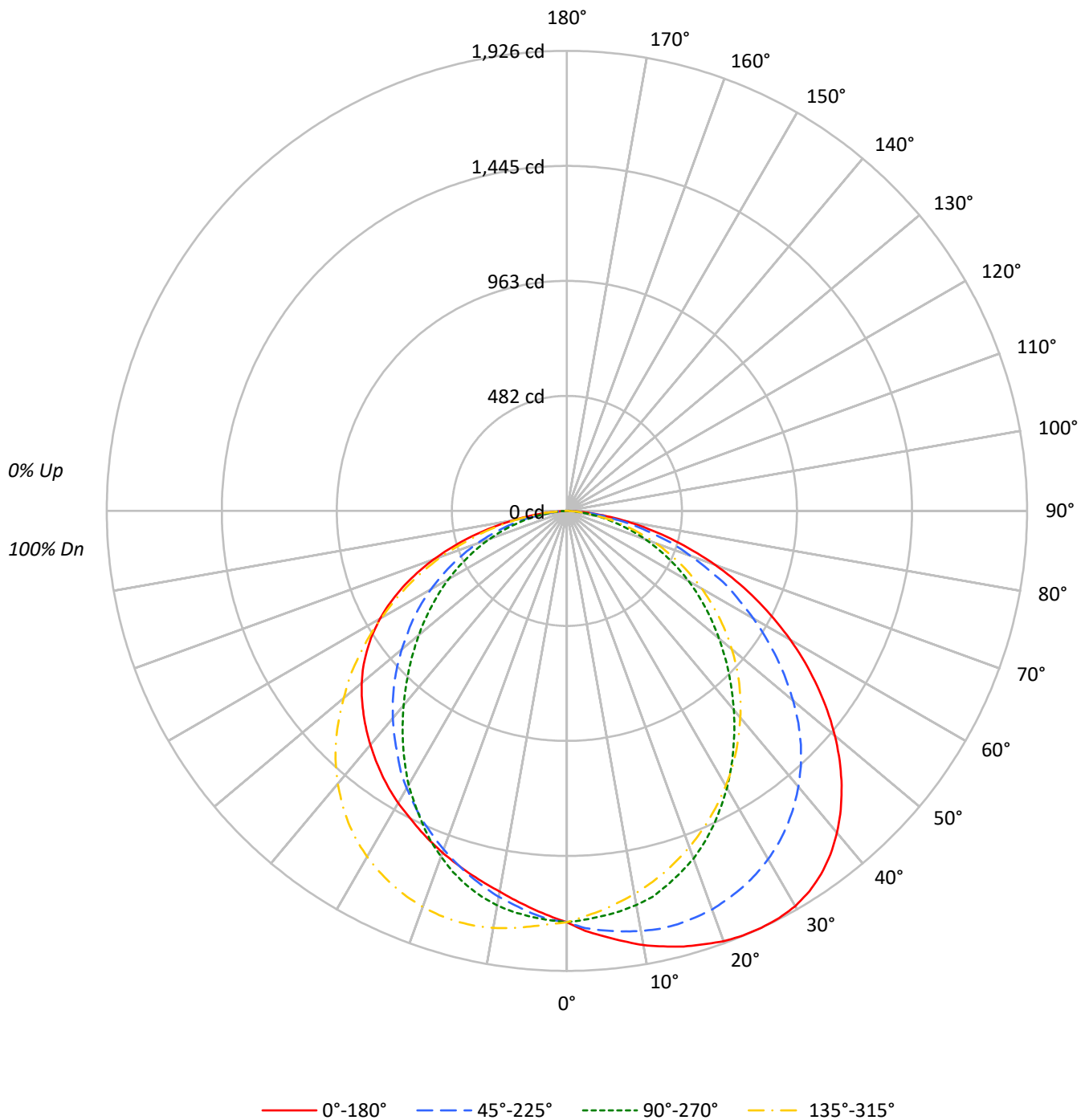
Lumens per Lamp: N/A
Luminaire Lumens: 5052.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4634	4634	4634	4634
5°	4830	4601	4514	4608
10°	5044	4577	4422	4583
15°	5261	4519	4379	4520
20°	5490	4437	4360	4411
25°	5717	4313	4359	4268
30°	5939	4163	4388	4116
35°	6096	3992	4432	3928
40°	6177	3819	4494	3733
45°	6189	3646	4581	3554
50°	6131	3479	4693	3387
55°	6004	3324	4798	3232
60°	5815	3163	4862	3081
65°	5555	2977	4837	2908
70°	5190	2759	4665	2708
75°	4669	2460	4281	2447
80°	3959	2061	3598	2092
85°	2754	1365	2282	1402

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	3.2
10°-20°	473.4	9.4
20°-30°	725.6	14.4
30°-40°	882.2	17.5
40°-50°	917.1	18.2
50°-60°	828.4	16.4
60°-70°	629.8	12.5
70°-80°	351.1	7.0
80°-90°	80.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1362.5	27.0
0°-40°	2244.7	44.4
0°-60°	3990.3	79.0
0°-90°	5052.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5052.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1722	1722	1722	1722	1722	
5°	1788	1703	1671	1706	1788	172
15°	1888	1622	1572	1622	1888	535
25°	1926	1452	1468	1438	1926	889
35°	1856	1215	1349	1196	1856	1159
45°	1626	958	1204	934	1626	1252
55°	1280	709	1023	689	1280	1142
65°	872	468	760	457	872	862
75°	449	237	412	235	449	477
85°	89	44	74	45	89	112
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1760.2	1734.4	1734.9	1757.3	1740.1	1748.5	1724.4	1733.6	1730.8	1732.8	1713.2
5°	1787.9	1760.2	1759.8	1779.0	1759.8	1763.4	1732.8	1738.9	1730.0	1724.4	1703.1
7.5°	1817.2	1789.5	1786.7	1803.5	1778.2	1775.4	1741.7	1741.7	1725.6	1711.6	1691.5
10°	1846.1	1817.6	1814.0	1826.8	1795.5	1786.3	1745.3	1738.9	1717.6	1696.7	1675.0
12.5°	1867.8	1838.9	1836.1	1844.1	1808.8	1791.9	1745.3	1732.8	1701.5	1672.2	1655.3
15°	1888.3	1858.6	1850.9	1855.0	1814.4	1791.9	1739.7	1720.4	1680.2	1641.7	1622.0
17.5°	1902.8	1874.2	1866.6	1866.2	1817.2	1785.1	1727.6	1701.1	1652.9	1606.3	1586.6
20°	1917.2	1888.7	1879.1	1871.8	1816.4	1775.8	1709.9	1674.2	1618.0	1565.7	1549.3
22.5°	1924.4	1895.1	1884.7	1873.8	1811.2	1759.0	1688.3	1642.9	1578.6	1516.3	1502.7
25°	1925.6	1895.5	1884.3	1868.6	1800.7	1738.9	1660.1	1605.1	1533.2	1464.1	1452.5
27.5°	1922.4	1889.5	1878.2	1859.4	1785.1	1714.4	1626.8	1562.1	1485.0	1408.7	1396.2
30°	1911.2	1877.8	1867.0	1842.5	1763.0	1684.2	1590.2	1514.3	1431.6	1350.4	1339.6
32.5°	1888.7	1856.2	1847.3	1822.8	1738.9	1649.3	1547.7	1462.9	1372.5	1295.0	1278.9
35°	1855.8	1823.2	1817.6	1791.9	1705.1	1607.5	1501.1	1406.7	1309.9	1230.7	1215.1
37.5°	1812.8	1785.5	1777.0	1751.7	1665.4	1560.1	1447.7	1345.6	1246.0	1160.9	1151.2
40°	1758.5	1732.8	1726.4	1703.9	1619.2	1507.5	1389.8	1282.6	1180.1	1101.0	1087.3
42.5°	1696.7	1672.6	1669.0	1645.7	1562.1	1449.3	1327.1	1217.1	1111.4	1035.1	1021.5
45°	1626.4	1603.1	1602.3	1580.2	1499.9	1384.6	1261.3	1150.8	1044.4	965.2	958.0
47.5°	1548.9	1528.0	1528.0	1507.5	1430.4	1313.5	1193.4	1081.7	976.9	907.0	894.1
50°	1464.5	1444.8	1438.8	1428.8	1353.7	1236.0	1121.9	1014.2	910.2	843.5	831.1
52.5°	1374.5	1357.7	1361.7	1343.2	1270.5	1155.2	1049.6	938.3	843.1	782.5	770.0
55°	1279.7	1255.6	1259.3	1252.4	1183.7	1072.1	968.4	875.7	777.2	720.2	708.6
57.5°	1181.3	1150.0	1162.9	1158.8	1091.4	986.9	894.1	804.6	711.8	659.2	647.9
60°	1080.5	1050.4	1063.6	1060.0	996.6	901.8	817.4	734.3	646.7	598.9	587.7
62.5°	976.9	949.2	961.2	958.4	900.2	814.6	741.1	664.8	581.2	538.2	527.8
65°	872.4	845.9	856.8	854.8	800.9	735.9	662.8	592.9	515.4	478.0	467.6
67.5°	765.6	741.1	751.1	751.1	701.7	639.5	584.0	520.2	450.7	418.5	408.9
70°	659.6	636.7	645.5	644.7	602.9	552.3	504.5	447.5	385.2	358.7	350.7
72.5°	552.7	532.6	540.7	539.9	504.9	472.4	425.0	375.6	321.3	300.1	292.8
75°	449.1	430.2	437.8	437.0	408.5	378.0	346.2	305.3	258.7	243.8	236.6
77.5°	350.3	331.0	337.4	337.4	316.5	294.4	269.1	237.4	204.5	188.4	183.2
80°	255.5	246.2	243.0	243.4	229.4	214.9	202.0	171.5	147.4	136.6	133.0
82.5°	167.9	160.3	157.1	157.9	149.8	141.0	133.0	111.7	95.6	89.2	87.2
85°	89.2	83.5	80.7	82.7	81.1	76.3	72.3	57.8	47.8	45.4	44.2
87.5°	28.1	24.5	22.5	29.7	25.3	22.5	21.7	17.3	13.3	13.3	12.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1719.6	1719.6	1703.9	1700.3	1698.7	1700.7	1685.0	1682.2	1704.7	1697.1	1679.8
5°	1705.9	1705.1	1683.0	1679.0	1679.0	1676.6	1658.9	1654.9	1677.4	1671.0	1652.1
7.5°	1689.1	1686.6	1660.5	1657.7	1653.7	1652.1	1632.4	1629.6	1648.9	1644.9	1627.2
10°	1668.6	1666.2	1635.2	1633.2	1628.8	1625.6	1607.1	1605.1	1624.8	1618.4	1604.3
12.5°	1641.7	1637.2	1605.5	1603.5	1599.9	1598.7	1580.6	1579.8	1601.5	1595.1	1580.2
15°	1606.3	1602.7	1567.4	1568.2	1568.6	1568.6	1554.1	1553.3	1574.6	1571.8	1555.7
17.5°	1567.4	1562.5	1528.8	1531.2	1534.0	1537.2	1526.0	1528.0	1550.5	1546.9	1532.4
20°	1523.2	1518.3	1485.4	1492.2	1498.3	1504.7	1497.5	1503.1	1524.0	1522.4	1511.5
22.5°	1473.8	1468.9	1438.4	1448.9	1458.9	1470.9	1467.7	1474.2	1496.3	1495.9	1486.2
25°	1413.5	1414.7	1387.8	1400.7	1417.5	1434.4	1435.6	1446.0	1470.5	1468.1	1459.3
27.5°	1357.3	1358.9	1330.4	1352.1	1374.5	1396.2	1401.5	1415.9	1440.8	1438.8	1431.2
30°	1298.2	1300.2	1272.5	1302.2	1329.6	1356.1	1367.3	1387.0	1412.3	1412.3	1404.3
32.5°	1236.8	1240.4	1211.5	1251.2	1283.0	1313.9	1333.6	1354.1	1383.0	1382.2	1375.3
35°	1173.7	1177.7	1151.2	1201.8	1233.6	1271.3	1295.8	1323.1	1348.8	1349.2	1344.0
37.5°	1109.4	1114.3	1090.2	1145.6	1181.7	1226.3	1257.7	1285.0	1313.5	1315.1	1310.3
40°	1045.6	1050.8	1029.9	1083.3	1129.1	1178.9	1215.1	1247.2	1278.5	1279.3	1276.1
42.5°	981.7	987.3	971.7	1023.9	1075.7	1129.1	1171.7	1208.2	1240.4	1242.4	1238.8
45°	919.4	924.3	913.0	970.1	1019.9	1078.1	1127.1	1168.5	1201.0	1203.8	1202.6
47.5°	857.6	862.0	852.0	904.2	961.6	1023.5	1080.1	1125.9	1160.4	1163.7	1162.9
50°	796.9	800.5	789.7	844.3	901.4	967.2	1026.3	1079.3	1117.9	1121.1	1120.7
52.5°	736.7	740.3	731.1	788.5	840.3	909.8	974.1	1031.5	1069.7	1074.5	1075.3
55°	678.4	680.0	672.8	727.8	778.1	850.8	924.7	980.5	1018.7	1022.7	1025.1
57.5°	620.2	620.6	614.6	667.2	715.4	789.7	867.2	925.9	962.0	966.0	969.7
60°	562.4	561.9	555.1	606.1	652.3	725.8	806.6	864.8	899.8	903.4	908.2
62.5°	504.9	503.7	497.7	544.7	588.1	660.8	741.9	798.1	831.5	833.9	840.3
65°	447.9	446.7	441.0	484.4	523.8	593.3	672.8	726.2	756.4	759.6	758.4
67.5°	391.6	389.2	384.8	423.8	459.5	523.8	600.1	651.1	676.0	678.8	686.5
70°	335.4	332.6	322.5	363.9	395.3	452.7	523.8	569.2	590.1	592.9	591.7
72.5°	280.0	277.2	266.3	304.5	331.0	381.2	444.7	482.4	500.5	502.9	502.9
75°	226.1	224.5	217.7	246.6	268.7	309.7	363.5	394.9	408.9	411.7	410.9
77.5°	174.3	173.1	166.3	191.2	208.5	239.0	282.4	306.9	317.3	320.5	327.4
80°	124.9	124.5	113.7	138.2	145.8	171.5	203.2	222.1	227.8	232.2	237.0
82.5°	79.9	80.3	69.5	90.4	93.6	110.1	129.7	141.4	145.4	149.0	152.6
85°	39.0	40.6	34.5	47.8	48.2	56.6	65.1	69.5	71.1	73.9	77.1
87.5°	10.0	11.6	6.4	13.7	12.1	15.7	18.1	19.3	18.9	20.9	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1685.4	1698.3	1691.9	1712.8	1720.8	1707.9	1730.4	1730.8	1714.8	1733.6	1744.1
5°	1659.3	1672.6	1668.6	1690.3	1700.3	1689.1	1716.4	1721.6	1705.9	1727.2	1744.1
7.5°	1632.8	1648.5	1643.3	1665.4	1677.4	1668.6	1697.9	1706.3	1694.3	1717.6	1740.1
10°	1609.9	1623.2	1617.6	1640.9	1651.3	1644.1	1673.0	1688.7	1677.4	1705.9	1732.8
12.5°	1587.4	1598.3	1591.9	1611.1	1621.2	1611.9	1647.3	1661.7	1653.7	1683.4	1718.0
15°	1558.5	1570.6	1561.7	1579.0	1586.6	1578.6	1607.5	1632.4	1622.4	1654.9	1693.1
17.5°	1536.4	1543.2	1531.2	1544.9	1549.3	1538.4	1567.8	1592.3	1585.0	1620.4	1664.6
20°	1511.9	1517.5	1500.7	1508.3	1507.9	1494.2	1521.2	1545.3	1540.4	1579.4	1629.6
22.5°	1484.6	1487.4	1467.7	1469.3	1468.5	1446.0	1470.1	1494.6	1492.6	1532.0	1588.2
25°	1455.7	1456.1	1430.8	1430.0	1421.1	1394.6	1415.9	1443.6	1437.6	1480.2	1539.2
27.5°	1427.2	1423.1	1392.6	1385.4	1371.3	1339.6	1358.5	1383.4	1379.8	1421.5	1487.0
30°	1396.6	1391.4	1354.1	1340.8	1320.3	1283.8	1299.4	1322.7	1324.7	1361.3	1430.0
32.5°	1367.7	1354.5	1313.1	1293.8	1268.1	1225.5	1234.0	1257.7	1260.9	1297.8	1368.5
35°	1330.4	1321.5	1270.5	1237.6	1212.3	1165.7	1174.5	1191.0	1195.8	1231.9	1303.8
37.5°	1295.0	1281.0	1226.7	1186.6	1154.0	1105.0	1107.4	1124.3	1129.1	1165.7	1236.8
40°	1258.5	1238.4	1180.1	1133.1	1095.8	1044.4	1041.6	1059.2	1062.8	1098.6	1162.9
42.5°	1219.5	1195.4	1129.9	1078.5	1035.5	983.3	977.7	992.9	997.0	1031.9	1095.0
45°	1180.1	1151.2	1078.5	1022.3	975.3	921.9	916.2	927.9	933.9	966.8	1027.5
47.5°	1138.4	1104.6	1025.5	962.8	914.2	860.8	854.0	865.6	870.4	903.0	960.4
50°	1094.6	1053.6	970.9	901.8	853.6	800.9	790.9	804.6	809.0	839.5	895.7
52.5°	1046.4	1001.0	912.6	840.3	792.1	741.9	729.9	743.1	748.3	778.1	829.9
55°	995.4	946.4	854.0	783.7	731.5	682.5	672.4	677.6	688.9	717.0	765.2
57.5°	937.9	889.3	792.1	720.6	670.4	623.4	615.0	619.8	630.2	657.5	700.9
60°	876.9	825.4	729.0	657.5	608.9	564.4	556.7	561.1	572.4	597.3	637.5
62.5°	816.6	758.8	664.0	592.9	548.7	507.3	505.3	503.7	514.1	538.2	573.6
65°	743.5	688.1	596.1	528.6	488.4	451.1	443.1	446.7	456.7	478.8	515.8
67.5°	665.2	615.0	526.6	464.3	428.6	395.3	388.4	390.0	400.5	419.8	451.9
70°	582.0	537.8	455.5	399.7	369.5	338.2	333.8	334.2	344.2	361.1	389.2
72.5°	494.9	455.1	383.6	335.8	310.9	288.4	284.4	279.6	288.8	303.3	327.4
75°	406.1	371.2	312.1	273.1	253.5	234.6	231.0	226.1	235.4	247.8	266.7
77.5°	316.5	288.4	242.6	212.5	197.2	183.2	180.0	174.7	184.0	193.2	208.1
80°	229.0	208.5	181.2	149.4	144.2	135.0	131.8	126.1	135.0	141.0	152.2
82.5°	147.8	134.2	118.5	96.4	95.6	88.8	87.2	80.7	88.8	92.4	100.8
85°	74.7	68.3	64.3	49.0	50.6	46.2	45.8	39.0	45.4	47.0	51.8
87.5°	21.3	22.5	20.1	12.1	15.3	14.5	14.5	10.4	14.5	14.5	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837725

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1723.6	1730.4	1732.0	1731.6	1736.1	1760.2	1752.1	1760.2
5°	1727.6	1742.9	1746.9	1752.5	1759.8	1787.1	1778.2	1787.9
7.5°	1730.0	1752.9	1761.8	1772.6	1784.3	1814.8	1807.6	1817.2
10°	1730.0	1759.8	1772.6	1790.7	1806.3	1841.7	1834.9	1846.1
12.5°	1722.8	1761.0	1779.0	1804.3	1824.4	1862.6	1859.8	1867.8
15°	1707.9	1754.9	1779.8	1812.4	1837.3	1879.9	1878.7	1888.3
17.5°	1687.9	1744.5	1774.6	1815.6	1846.9	1894.7	1897.5	1902.8
20°	1662.5	1724.8	1764.2	1814.4	1853.7	1906.4	1910.0	1917.2
22.5°	1629.2	1701.1	1748.5	1809.2	1854.6	1911.2	1917.6	1924.4
25°	1589.8	1672.6	1728.0	1799.1	1850.5	1910.8	1919.6	1925.6
27.5°	1544.9	1635.6	1701.9	1783.1	1839.3	1904.4	1915.2	1922.4
30°	1492.6	1596.3	1672.2	1762.2	1824.0	1892.3	1904.0	1911.2
32.5°	1438.8	1552.9	1636.8	1735.3	1801.9	1873.0	1883.1	1888.7
35°	1380.2	1500.3	1594.3	1700.7	1773.4	1842.1	1849.7	1855.8
37.5°	1316.3	1443.2	1545.7	1661.7	1733.2	1799.1	1805.9	1812.8
40°	1250.4	1383.4	1491.0	1613.9	1685.4	1746.5	1753.7	1758.5
42.5°	1184.1	1317.1	1432.8	1557.7	1628.8	1687.5	1691.9	1696.7
45°	1117.1	1248.4	1367.3	1495.4	1565.7	1620.8	1622.4	1626.4
47.5°	1048.8	1177.3	1295.4	1424.4	1493.8	1544.1	1545.7	1548.9
50°	980.1	1106.2	1218.7	1347.6	1415.5	1468.5	1461.3	1464.5
52.5°	912.6	1031.5	1146.4	1264.9	1332.0	1379.0	1381.0	1374.5
55°	846.3	958.4	1064.0	1178.1	1242.0	1278.5	1277.3	1279.7
57.5°	779.3	884.5	981.3	1085.7	1148.0	1182.5	1189.8	1181.3
60°	711.0	809.8	896.5	990.9	1051.2	1080.1	1088.5	1080.5
62.5°	643.1	733.9	812.6	894.9	950.8	986.5	985.7	976.9
65°	575.2	657.5	727.8	797.7	846.3	882.1	880.5	872.4
67.5°	512.5	580.4	643.5	700.1	742.3	766.8	775.2	765.6
70°	443.5	502.1	557.5	602.9	637.9	660.0	668.0	659.6
72.5°	374.4	424.2	463.1	506.9	533.8	552.3	560.7	552.7
75°	306.1	347.1	378.8	412.9	431.8	447.5	457.1	449.1
77.5°	239.8	271.5	296.8	321.7	343.4	347.1	355.5	350.3
80°	176.7	199.6	218.1	234.6	250.2	251.9	258.7	255.5
82.5°	117.7	133.0	137.8	155.0	165.1	163.5	170.3	167.9
85°	62.3	71.5	79.9	85.2	90.8	85.6	91.6	89.2
87.5°	20.9	22.1	19.3	27.3	30.1	25.7	29.3	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)