

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: P838008

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

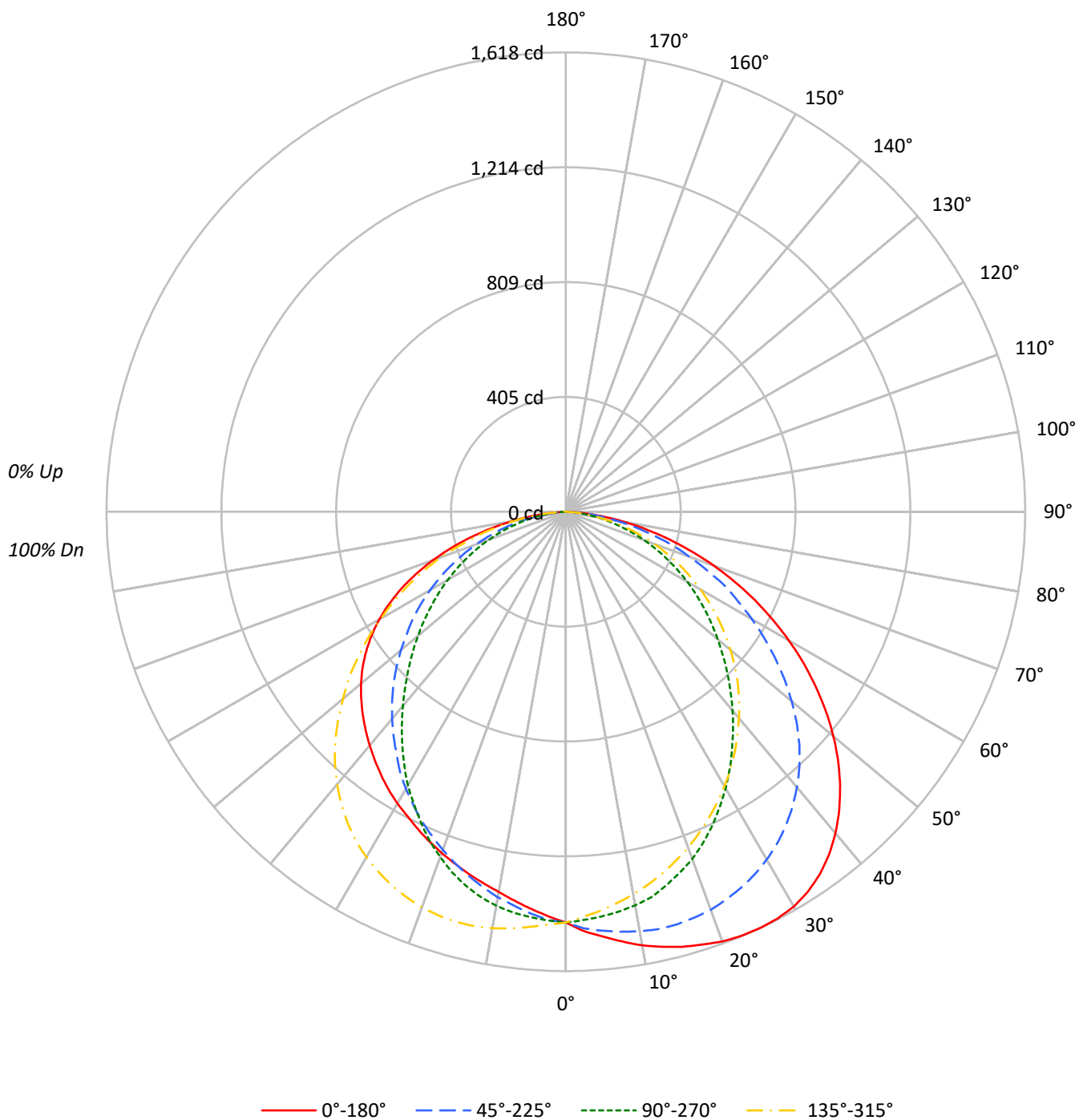
Lumens per Lamp: N/A
Luminaire Lumens: 4244.5 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3893	3893	3893	3893
5°	4058	3865	3792	3871
10°	4238	3845	3715	3851
15°	4420	3796	3679	3797
20°	4613	3727	3663	3706
25°	4804	3623	3662	3586
30°	4989	3497	3687	3458
35°	5122	3353	3724	3300
40°	5190	3209	3776	3137
45°	5200	3063	3849	2986
50°	5151	2923	3943	2846
55°	5044	2793	4031	2715
60°	4886	2657	4085	2588
65°	4667	2501	4064	2443
70°	4360	2318	3919	2275
75°	3923	2067	3596	2057
80°	3326	1731	3023	1757
85°	2313	1145	1917	1176

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.2
10°-20°	397.8	9.4
20°-30°	609.6	14.4
30°-40°	741.2	17.5
40°-50°	770.5	18.2
50°-60°	696.0	16.4
60°-70°	529.2	12.5
70°-80°	295.0	7.0
80°-90°	67.9	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°	1144.7	27.0
0°-40°	1885.9	44.4
0°-60°	3352.4	79.0
0°-90°	4244.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1447	1447	1447	1447	1447	
5°	1502	1431	1404	1433	1502	145
15°	1586	1363	1320	1363	1586	450
25°	1618	1220	1233	1208	1618	747
35°	1559	1021	1134	1005	1559	974
45°	1366	805	1011	785	1366	1052
55°	1075	595	859	579	1075	960
65°	733	393	638	384	733	724
75°	377	199	346	198	377	401
85°	75	37	62	38	75	94
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1478.8	1457.2	1457.5	1476.4	1461.9	1469.0	1448.8	1456.5	1454.2	1455.8	1439.3
5°	1502.1	1478.8	1478.5	1494.6	1478.5	1481.5	1455.8	1460.9	1453.5	1448.8	1430.9
7.5°	1526.7	1503.4	1501.1	1515.2	1494.0	1491.6	1463.3	1463.3	1449.8	1438.0	1421.1
10°	1551.0	1527.0	1524.0	1534.8	1508.5	1500.7	1466.3	1460.9	1443.0	1425.5	1407.2
12.5°	1569.2	1544.9	1542.6	1549.3	1519.6	1505.4	1466.3	1455.8	1429.5	1404.9	1390.7
15°	1586.4	1561.5	1555.1	1558.4	1524.3	1505.4	1461.6	1445.4	1411.6	1379.2	1362.7
17.5°	1598.6	1574.6	1568.2	1567.9	1526.7	1499.7	1451.5	1429.2	1388.7	1349.5	1333.0
20°	1610.7	1586.8	1578.7	1572.6	1526.0	1491.9	1436.6	1406.6	1359.3	1315.5	1301.6
22.5°	1616.8	1592.2	1583.4	1574.3	1521.6	1477.8	1418.4	1380.2	1326.3	1273.9	1262.5
25°	1617.8	1592.5	1583.1	1569.9	1512.9	1460.9	1394.8	1348.5	1288.1	1230.1	1220.3
27.5°	1615.1	1587.5	1578.0	1562.1	1499.7	1440.3	1366.7	1312.4	1247.6	1183.5	1173.0
30°	1605.7	1577.7	1568.6	1548.0	1481.2	1415.0	1336.0	1272.3	1202.7	1134.6	1125.5
32.5°	1586.8	1559.4	1552.0	1531.4	1460.9	1385.6	1300.3	1229.1	1153.1	1088.0	1074.5
35°	1559.1	1531.8	1527.0	1505.4	1432.6	1350.5	1261.1	1181.8	1100.5	1034.0	1020.8
37.5°	1523.0	1500.0	1493.0	1471.7	1399.1	1310.7	1216.2	1130.5	1046.8	975.3	967.2
40°	1477.4	1455.8	1450.4	1431.5	1360.3	1266.5	1167.6	1077.5	991.5	925.0	913.5
42.5°	1425.5	1405.2	1402.2	1382.6	1312.4	1217.6	1115.0	1022.5	933.8	869.7	858.2
45°	1366.4	1346.8	1346.2	1327.6	1260.1	1163.3	1059.7	966.8	877.4	810.9	804.9
47.5°	1301.3	1283.7	1283.7	1266.5	1201.7	1103.5	1002.6	908.8	820.7	762.0	751.2
50°	1230.4	1213.9	1208.8	1200.4	1137.3	1038.4	942.6	852.1	764.7	708.7	698.2
52.5°	1154.8	1140.6	1144.0	1128.5	1067.4	970.6	881.8	788.3	708.3	657.4	646.9
55°	1075.2	1054.9	1058.0	1052.2	994.5	900.7	813.6	735.7	653.0	605.1	595.3
57.5°	992.5	966.2	977.0	973.6	916.9	829.2	751.2	675.9	598.0	553.8	544.3
60°	907.8	882.5	893.6	890.6	837.3	757.6	686.7	616.9	543.3	503.2	493.7
62.5°	820.7	797.4	807.6	805.2	756.3	684.4	622.6	558.5	488.3	452.2	443.4
65°	733.0	710.7	719.8	718.1	672.9	618.2	556.8	498.1	433.0	401.6	392.8
67.5°	643.2	622.6	631.1	631.1	589.6	537.3	490.7	437.0	378.6	351.6	343.5
70°	554.1	534.9	542.3	541.6	506.5	464.0	423.9	375.9	323.6	301.4	294.6
72.5°	464.4	447.5	454.2	453.6	424.2	396.9	357.0	315.5	270.0	252.1	246.0
75°	377.3	361.4	367.8	367.2	343.2	317.6	290.9	256.5	217.3	204.8	198.8
77.5°	294.3	278.1	283.5	283.5	265.9	247.4	226.1	199.4	171.8	158.3	153.9
80°	214.6	206.9	204.2	204.5	192.7	180.5	169.7	144.1	123.9	114.7	111.7
82.5°	141.1	134.7	132.0	132.6	125.9	118.5	111.7	93.8	80.3	74.9	73.2
85°	74.9	70.2	67.8	69.5	68.2	64.1	60.7	48.6	40.2	38.1	37.1
87.5°	23.6	20.6	18.9	25.0	21.3	18.9	18.2	14.5	11.1	11.1	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1444.7	1444.7	1431.5	1428.5	1427.2	1428.8	1415.7	1413.3	1432.2	1425.8	1411.3
5°	1433.2	1432.6	1414.0	1410.6	1410.6	1408.6	1393.7	1390.4	1409.3	1403.9	1388.0
7.5°	1419.1	1417.0	1395.1	1392.7	1389.4	1388.0	1371.5	1369.1	1385.3	1381.9	1367.1
10°	1401.8	1399.8	1373.8	1372.1	1368.4	1365.7	1350.2	1348.5	1365.1	1359.7	1347.8
12.5°	1379.2	1375.5	1348.9	1347.2	1344.1	1343.1	1327.9	1327.3	1345.5	1340.1	1327.6
15°	1349.5	1346.5	1316.8	1317.5	1317.8	1317.8	1305.7	1305.0	1322.9	1320.5	1307.0
17.5°	1316.8	1312.8	1284.4	1286.4	1288.8	1291.5	1282.0	1283.7	1302.6	1299.6	1287.4
20°	1279.7	1275.6	1248.0	1253.7	1258.8	1264.2	1258.1	1262.8	1280.4	1279.0	1269.9
22.5°	1238.2	1234.1	1208.5	1217.2	1225.7	1235.8	1233.1	1238.5	1257.1	1256.7	1248.6
25°	1187.6	1188.6	1166.0	1176.8	1190.9	1205.1	1206.1	1214.9	1235.5	1233.4	1226.0
27.5°	1140.3	1141.7	1117.7	1135.9	1154.8	1173.0	1177.4	1189.6	1210.5	1208.8	1202.4
30°	1090.7	1092.4	1069.1	1094.1	1117.0	1139.3	1148.7	1165.3	1186.5	1186.5	1179.8
32.5°	1039.1	1042.1	1017.8	1051.2	1077.9	1103.9	1120.4	1137.6	1161.9	1161.2	1155.5
35°	986.1	989.5	967.2	1009.7	1036.4	1068.1	1088.7	1111.6	1133.2	1133.6	1129.2
37.5°	932.1	936.1	915.9	962.5	992.8	1030.3	1056.6	1079.6	1103.5	1104.9	1100.8
40°	878.4	882.8	865.3	910.2	948.6	990.5	1020.8	1047.8	1074.2	1074.8	1072.1
42.5°	824.8	829.5	816.3	860.2	903.7	948.6	984.4	1015.1	1042.1	1043.8	1040.8
45°	772.5	776.5	767.1	815.0	856.8	905.8	946.9	981.7	1009.0	1011.4	1010.4
47.5°	720.5	724.2	715.8	759.6	807.9	859.9	907.5	945.9	974.9	977.6	977.0
50°	669.5	672.6	663.5	709.4	757.3	812.6	862.2	906.8	939.2	941.9	941.5
52.5°	618.9	622.0	614.2	662.5	706.0	764.4	818.4	866.6	898.7	902.7	903.4
55°	570.0	571.3	565.3	611.5	653.7	714.8	776.9	823.8	855.8	859.2	861.2
57.5°	521.1	521.4	516.3	560.5	601.0	663.5	728.6	777.9	808.2	811.6	814.6
60°	472.5	472.1	466.4	509.2	548.0	609.8	677.6	726.6	755.9	759.0	763.0
62.5°	424.2	423.2	418.1	457.6	494.1	555.1	623.3	670.6	698.6	700.6	706.0
65°	376.3	375.3	370.5	407.0	440.1	498.4	565.3	610.1	635.5	638.2	637.1
67.5°	329.0	327.0	323.3	356.0	386.1	440.1	504.2	547.0	568.0	570.3	576.7
70°	281.8	279.4	271.0	305.7	332.1	380.3	440.1	478.2	495.7	498.1	497.1
72.5°	235.2	232.9	223.7	255.8	278.1	320.3	373.6	405.3	420.5	422.5	422.5
75°	190.0	188.6	182.9	207.2	225.8	260.2	305.4	331.7	343.5	345.9	345.2
77.5°	146.5	145.4	139.7	160.6	175.1	200.8	237.2	257.8	266.6	269.3	275.0
80°	105.0	104.6	95.5	116.1	122.5	144.1	170.8	186.6	191.3	195.1	199.1
82.5°	67.2	67.5	58.4	75.9	78.6	92.5	109.0	118.8	122.2	125.2	128.2
85°	32.7	34.1	29.0	40.2	40.5	47.6	54.7	58.4	59.7	62.1	64.8
87.5°	8.4	9.8	5.4	11.5	10.1	13.2	15.2	16.2	15.9	17.5	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1416.0	1426.8	1421.4	1439.0	1445.7	1434.9	1453.8	1454.2	1440.7	1456.5	1465.3
5°	1394.1	1405.2	1401.8	1420.1	1428.5	1419.1	1442.0	1446.4	1433.2	1451.1	1465.3
7.5°	1371.8	1385.0	1380.6	1399.1	1409.3	1401.8	1426.5	1433.6	1423.4	1443.0	1461.9
10°	1352.6	1363.7	1359.0	1378.6	1387.3	1381.3	1405.6	1418.7	1409.3	1433.2	1455.8
12.5°	1333.7	1342.8	1337.4	1353.6	1362.0	1354.3	1384.0	1396.1	1389.4	1414.3	1443.4
15°	1309.4	1319.5	1312.1	1326.6	1333.0	1326.3	1350.5	1371.5	1363.0	1390.4	1422.4
17.5°	1290.8	1296.6	1286.4	1297.9	1301.6	1292.5	1317.1	1337.7	1331.7	1361.3	1398.5
20°	1270.2	1275.0	1260.8	1267.2	1266.9	1255.4	1278.0	1298.2	1294.2	1326.9	1369.1
22.5°	1247.3	1249.6	1233.1	1234.5	1233.8	1214.9	1235.1	1255.7	1254.0	1287.1	1334.4
25°	1223.0	1223.3	1202.1	1201.4	1194.0	1171.7	1189.6	1212.9	1207.8	1243.6	1293.2
27.5°	1199.0	1195.7	1170.0	1163.9	1152.1	1125.5	1141.3	1162.2	1159.2	1194.3	1249.3
30°	1173.4	1169.0	1137.6	1126.5	1109.3	1078.5	1091.7	1111.3	1113.0	1143.7	1201.4
32.5°	1149.1	1137.9	1103.2	1087.0	1065.4	1029.6	1036.7	1056.6	1059.3	1090.4	1149.8
35°	1117.7	1110.3	1067.4	1039.7	1018.5	979.3	986.8	1000.6	1004.6	1035.0	1095.4
37.5°	1088.0	1076.2	1030.6	996.9	969.5	928.4	930.4	944.6	948.6	979.3	1039.1
40°	1057.3	1040.4	991.5	952.0	920.6	877.4	875.1	889.9	892.9	923.0	977.0
42.5°	1024.6	1004.3	949.3	906.1	870.0	826.1	821.4	834.2	837.6	867.0	919.9
45°	991.5	967.2	906.1	858.9	819.4	774.5	769.8	779.6	784.6	812.3	863.2
47.5°	956.4	928.0	861.6	808.9	768.1	723.2	717.5	727.2	731.3	758.6	806.9
50°	919.6	885.2	815.7	757.6	717.1	672.9	664.5	675.9	679.7	705.3	752.6
52.5°	879.1	841.0	766.7	706.0	665.5	623.3	613.2	624.3	628.7	653.7	697.2
55°	836.2	795.1	717.5	658.4	614.5	573.4	564.9	569.3	578.8	602.4	642.9
57.5°	788.0	747.2	665.5	605.4	563.2	523.8	516.7	520.7	529.5	552.4	588.9
60°	736.7	693.5	612.5	552.4	511.6	474.1	467.7	471.4	480.9	501.8	535.6
62.5°	686.1	637.5	557.8	498.1	461.0	426.2	424.5	423.2	432.0	452.2	481.9
65°	624.7	578.1	500.8	444.1	410.4	379.0	372.2	375.3	383.7	402.3	433.3
67.5°	558.8	516.7	442.4	390.1	360.1	332.1	326.3	327.7	336.5	352.7	379.7
70°	489.0	451.9	382.7	335.8	310.5	284.1	280.4	280.8	289.2	303.4	327.0
72.5°	415.8	382.4	322.3	282.1	261.2	242.3	238.9	234.9	242.6	254.8	275.0
75°	341.2	311.8	262.2	229.5	212.9	197.1	194.0	190.0	197.8	208.2	224.1
77.5°	265.9	242.3	203.8	178.5	165.7	153.9	151.2	146.8	154.6	162.3	174.8
80°	192.4	175.1	152.2	125.5	121.2	113.4	110.7	106.0	113.4	118.5	127.9
82.5°	124.2	112.7	99.6	81.0	80.3	74.6	73.2	67.8	74.6	77.6	84.7
85°	62.8	57.4	54.0	41.2	42.5	38.8	38.5	32.7	38.1	39.5	43.5
87.5°	17.9	18.9	16.9	10.1	12.8	12.1	12.1	8.8	12.1	12.1	13.8
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: P838008

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3STD-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7	1446.7
2.5°	1448.1	1453.8	1455.2	1454.8	1458.5	1478.8	1472.0	1478.8
5°	1451.5	1464.3	1467.7	1472.4	1478.5	1501.4	1494.0	1502.1
7.5°	1453.5	1472.7	1480.1	1489.2	1499.0	1524.7	1518.6	1526.7
10°	1453.5	1478.5	1489.2	1504.4	1517.6	1547.3	1541.6	1551.0
12.5°	1447.4	1479.5	1494.6	1515.9	1532.8	1564.8	1562.5	1569.2
15°	1434.9	1474.4	1495.3	1522.7	1543.6	1579.4	1578.3	1586.4
17.5°	1418.0	1465.6	1490.9	1525.4	1551.7	1591.8	1594.2	1598.6
20°	1396.8	1449.1	1482.2	1524.3	1557.4	1601.6	1604.7	1610.7
22.5°	1368.8	1429.2	1469.0	1520.0	1558.1	1605.7	1611.1	1616.8
25°	1335.7	1405.2	1451.8	1511.5	1554.7	1605.3	1612.8	1617.8
27.5°	1297.9	1374.2	1429.9	1498.0	1545.3	1599.9	1609.1	1615.1
30°	1254.0	1341.1	1404.9	1480.5	1532.4	1589.8	1599.6	1605.7
32.5°	1208.8	1304.7	1375.2	1457.9	1513.9	1573.6	1582.1	1586.8
35°	1159.5	1260.4	1339.4	1428.8	1489.9	1547.6	1554.0	1559.1
37.5°	1105.9	1212.5	1298.6	1396.1	1456.2	1511.5	1517.3	1523.0
40°	1050.5	1162.2	1252.7	1355.9	1416.0	1467.3	1473.4	1477.4
42.5°	994.9	1106.6	1203.8	1308.7	1368.4	1417.7	1421.4	1425.5
45°	938.5	1048.9	1148.7	1256.4	1315.5	1361.7	1363.0	1366.4
47.5°	881.1	989.1	1088.3	1196.7	1255.0	1297.2	1298.6	1301.3
50°	823.4	929.4	1023.9	1132.2	1189.2	1233.8	1227.7	1230.4
52.5°	766.7	866.6	963.1	1062.7	1119.0	1158.5	1160.2	1154.8
55°	711.0	805.2	894.0	989.8	1043.5	1074.2	1073.2	1075.2
57.5°	654.7	743.1	824.4	912.2	964.5	993.5	999.6	992.5
60°	597.3	680.3	753.2	832.5	883.2	907.5	914.5	907.8
62.5°	540.3	616.6	682.7	751.9	798.8	828.8	828.1	820.7
65°	483.3	552.4	611.5	670.2	711.0	741.1	739.7	733.0
67.5°	430.6	487.6	540.6	588.2	623.6	644.2	651.3	643.2
70°	372.6	421.8	468.4	506.5	535.9	554.5	561.2	554.1
72.5°	314.5	356.4	389.1	425.9	448.5	464.0	471.1	464.4
75°	257.2	291.6	318.2	346.9	362.8	375.9	384.0	377.3
77.5°	201.5	228.1	249.4	270.3	288.5	291.6	298.7	294.3
80°	148.5	167.7	183.2	197.1	210.2	211.6	217.3	214.6
82.5°	98.9	111.7	115.8	130.3	138.7	137.3	143.1	141.1
85°	52.3	60.1	67.2	71.5	76.3	71.9	76.9	74.9
87.5°	17.5	18.6	16.2	22.9	25.3	21.6	24.6	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)