

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: P837898

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-2HI-40-120-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: P837898
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-LD4-2HI-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

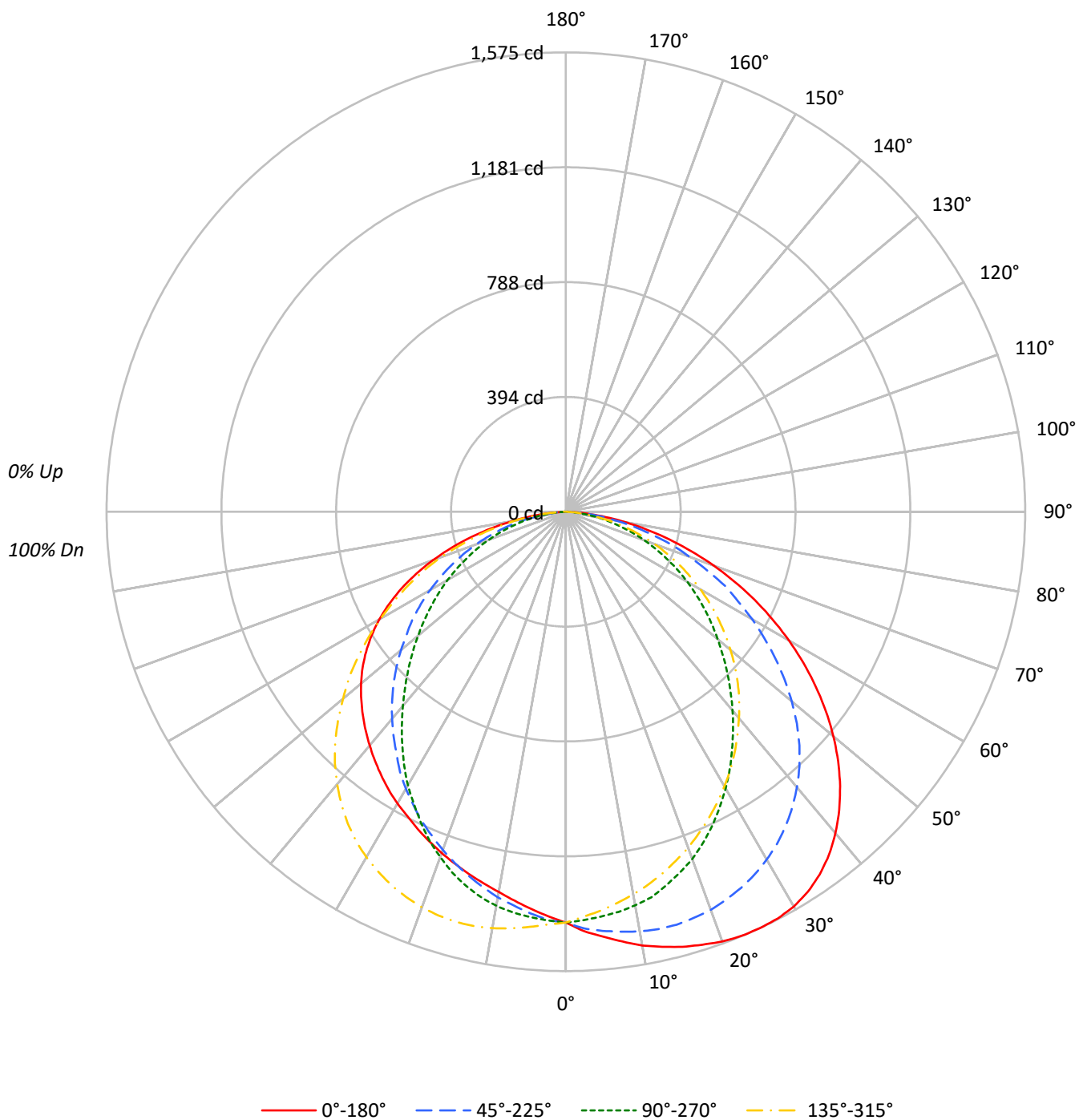
Lumens per Lamp: N/A
Luminaire Lumens: 4132.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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



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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	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°	3790	3790	3790	3790
5°	3950	3763	3692	3769
10°	4126	3744	3617	3749
15°	4303	3696	3582	3697
20°	4491	3629	3566	3608
25°	4676	3527	3565	3491
30°	4857	3405	3589	3367
35°	4986	3265	3625	3213
40°	5052	3124	3676	3054
45°	5062	2982	3747	2907
50°	5014	2846	3839	2770
55°	4911	2719	3924	2643
60°	4757	2587	3977	2520
65°	4544	2435	3956	2378
70°	4245	2257	3815	2216
75°	3819	2012	3501	2001
80°	3237	1684	2943	1711
85°	2251	1115	1868	1145

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	3.2
10°-20°	387.2	9.4
20°-30°	593.4	14.4
30°-40°	721.6	17.5
40°-50°	750.1	18.2
50°-60°	677.6	16.4
60°-70°	515.1	12.5
70°-80°	287.2	7.0
80°-90°	66.1	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°	1114.4	27.0
0°-40°	1836.0	44.4
0°-60°	3263.7	79.0
0°-90°	4132.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4132.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1462	1393	1367	1395	1462	141
15°	1544	1327	1286	1327	1544	438
25°	1575	1188	1201	1176	1575	727
35°	1518	994	1104	978	1518	948
45°	1330	784	985	764	1330	1024
55°	1047	580	836	563	1047	934
65°	714	382	621	374	714	705
75°	367	194	337	192	367	390
85°	73	36	60	37	73	92
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°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1439.6	1418.6	1418.9	1437.3	1423.2	1430.1	1410.4	1418.0	1415.7	1417.3	1401.2
5°	1462.3	1439.6	1439.3	1455.1	1439.3	1442.3	1417.3	1422.2	1415.0	1410.4	1393.0
7.5°	1486.3	1463.6	1461.3	1475.1	1454.4	1452.1	1424.5	1424.5	1411.4	1399.9	1383.5
10°	1509.9	1486.6	1483.7	1494.2	1468.5	1461.0	1427.5	1422.2	1404.8	1387.7	1370.0
12.5°	1527.7	1504.0	1501.7	1508.3	1479.4	1465.6	1427.5	1417.3	1391.7	1367.7	1353.9
15°	1544.4	1520.1	1513.9	1517.2	1484.0	1465.6	1422.9	1407.1	1374.3	1342.7	1326.6
17.5°	1556.3	1532.9	1526.7	1526.4	1486.3	1460.0	1413.0	1391.3	1351.9	1313.8	1297.7
20°	1568.1	1544.8	1536.9	1531.0	1485.6	1452.4	1398.6	1369.3	1323.3	1280.6	1267.2
22.5°	1574.0	1550.0	1541.5	1532.6	1481.4	1438.7	1380.8	1343.7	1291.1	1240.2	1229.0
25°	1575.0	1550.4	1541.2	1528.3	1472.8	1422.2	1357.8	1312.8	1254.0	1197.5	1188.0
27.5°	1572.4	1545.4	1536.2	1520.8	1460.0	1402.2	1330.6	1277.7	1214.6	1152.2	1142.0
30°	1563.2	1535.9	1527.0	1507.0	1441.9	1377.5	1300.7	1238.6	1170.9	1104.5	1095.7
32.5°	1544.8	1518.2	1510.9	1490.9	1422.2	1349.0	1265.8	1196.5	1122.6	1059.2	1046.1
35°	1517.8	1491.2	1486.6	1465.6	1394.6	1314.8	1227.7	1150.5	1071.3	1006.6	993.8
37.5°	1482.7	1460.3	1453.4	1432.7	1362.1	1276.0	1184.0	1100.6	1019.1	949.5	941.6
40°	1438.3	1417.3	1412.0	1393.6	1324.3	1233.0	1136.7	1049.0	965.2	900.5	889.3
42.5°	1387.7	1368.0	1365.1	1346.0	1277.7	1185.4	1085.5	995.5	909.1	846.6	835.5
45°	1330.2	1311.2	1310.5	1292.5	1226.7	1132.5	1031.6	941.3	854.2	789.5	783.6
47.5°	1266.8	1249.7	1249.7	1233.0	1169.9	1074.3	976.1	884.7	799.0	741.8	731.3
50°	1197.8	1181.7	1176.8	1168.6	1107.2	1010.9	917.6	829.5	744.5	689.9	679.7
52.5°	1124.2	1110.4	1113.7	1098.6	1039.2	944.9	858.5	767.5	689.6	640.0	629.8
55°	1046.7	1027.0	1030.0	1024.4	968.2	876.9	792.1	716.2	635.7	589.1	579.5
57.5°	966.2	940.6	951.1	947.8	892.6	807.2	731.3	658.1	582.2	539.1	529.9
60°	883.8	859.1	870.0	867.0	815.1	737.6	668.6	600.6	528.9	489.8	480.6
62.5°	799.0	776.3	786.2	783.9	736.2	666.3	606.1	543.7	475.4	440.2	431.7
65°	713.6	691.9	700.8	699.1	655.1	601.9	542.1	484.9	421.5	391.0	382.4
67.5°	626.2	606.1	614.4	614.4	573.9	523.0	477.7	425.5	368.6	342.3	334.4
70°	539.5	520.7	528.0	527.3	493.1	451.7	412.6	366.0	315.1	293.4	286.8
72.5°	452.1	435.6	442.2	441.5	413.0	386.4	347.6	307.2	262.8	245.4	239.5
75°	367.3	351.9	358.1	357.4	334.1	309.2	283.2	249.7	211.6	199.4	193.5
77.5°	286.5	270.7	276.0	276.0	258.9	240.8	220.1	194.2	167.2	154.1	149.8
80°	208.9	201.4	198.8	199.1	187.6	175.8	165.3	140.3	120.6	111.7	108.7
82.5°	137.3	131.1	128.5	129.1	122.5	115.3	108.7	91.3	78.2	72.9	71.3
85°	72.9	68.3	66.0	67.7	66.4	62.4	59.1	47.3	39.1	37.1	36.1
87.5°	23.0	20.0	18.4	24.3	20.7	18.4	17.7	14.1	10.8	10.8	10.5
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°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1406.5	1406.5	1393.6	1390.7	1389.4	1391.0	1378.2	1375.9	1394.3	1388.1	1373.9
5°	1395.3	1394.6	1376.6	1373.3	1373.3	1371.3	1356.8	1353.6	1372.0	1366.7	1351.3
7.5°	1381.5	1379.5	1358.2	1355.9	1352.6	1351.3	1335.2	1332.9	1348.6	1345.3	1330.9
10°	1364.7	1362.8	1337.5	1335.8	1332.2	1329.6	1314.5	1312.8	1328.9	1323.7	1312.2
12.5°	1342.7	1339.1	1313.2	1311.5	1308.6	1307.6	1292.8	1292.1	1309.9	1304.6	1292.5
15°	1313.8	1310.9	1281.9	1282.6	1282.9	1282.9	1271.1	1270.4	1287.9	1285.6	1272.4
17.5°	1281.9	1278.0	1250.4	1252.4	1254.7	1257.3	1248.1	1249.7	1268.1	1265.2	1253.4
20°	1245.8	1241.9	1214.9	1220.5	1225.4	1230.7	1224.8	1229.4	1246.5	1245.1	1236.3
22.5°	1205.4	1201.4	1176.5	1185.0	1193.2	1203.1	1200.5	1205.7	1223.8	1223.5	1215.6
25°	1156.1	1157.1	1135.1	1145.6	1159.4	1173.2	1174.2	1182.7	1202.8	1200.8	1193.6
27.5°	1110.1	1111.4	1088.1	1105.8	1124.2	1142.0	1146.3	1158.1	1178.5	1176.8	1170.6
30°	1061.8	1063.5	1040.8	1065.1	1087.4	1109.1	1118.3	1134.4	1155.1	1155.1	1148.6
32.5°	1011.6	1014.5	990.9	1023.4	1049.3	1074.6	1090.7	1107.5	1131.1	1130.5	1124.9
35°	960.0	963.3	941.6	983.0	1008.9	1039.8	1059.9	1082.2	1103.2	1103.5	1099.3
37.5°	907.4	911.4	891.6	937.0	966.5	1003.0	1028.6	1051.0	1074.3	1075.6	1071.7
40°	855.2	859.4	842.4	886.1	923.5	964.2	993.8	1020.1	1045.7	1046.4	1043.8
42.5°	802.9	807.5	794.7	837.4	879.8	923.5	958.3	988.2	1014.5	1016.2	1013.2
45°	752.0	756.0	746.8	793.4	834.1	881.8	921.9	955.7	982.3	984.6	983.6
47.5°	701.4	705.0	696.8	739.5	786.5	837.1	883.4	920.9	949.1	951.8	951.1
50°	651.8	654.8	645.9	690.6	737.2	791.1	839.4	882.8	914.3	916.9	916.6
52.5°	602.5	605.5	597.9	644.9	687.3	744.1	796.7	843.7	874.9	878.8	879.5
55°	554.9	556.2	550.3	595.3	636.4	695.8	756.3	802.0	833.2	836.4	838.4
57.5°	507.3	507.6	502.7	545.7	585.1	645.9	709.3	757.3	786.8	790.1	793.1
60°	459.9	459.6	454.0	495.8	533.5	593.7	659.7	707.3	735.9	738.9	742.8
62.5°	413.0	412.0	407.1	445.5	481.0	540.4	606.8	652.8	680.1	682.0	687.3
65°	366.3	365.3	360.7	396.2	428.4	485.2	550.3	594.0	618.6	621.3	620.3
67.5°	320.3	318.3	314.7	346.6	375.8	428.4	490.8	532.6	552.9	555.2	561.5
70°	274.3	272.0	263.8	297.7	323.3	370.3	428.4	465.5	482.6	484.9	483.9
72.5°	229.0	226.7	217.8	249.0	270.7	311.8	363.7	394.6	409.4	411.3	411.3
75°	185.0	183.7	178.1	201.7	219.8	253.3	297.3	322.9	334.4	336.7	336.1
77.5°	142.6	141.6	136.0	156.4	170.5	195.5	231.0	251.0	259.5	262.2	267.8
80°	102.2	101.8	93.0	113.0	119.3	140.3	166.2	181.7	186.3	189.9	193.8
82.5°	65.4	65.7	56.8	73.9	76.5	90.0	106.1	115.6	118.9	121.9	124.8
85°	31.9	33.2	28.3	39.1	39.4	46.3	53.2	56.8	58.2	60.5	63.1
87.5°	8.2	9.5	5.3	11.2	9.9	12.8	14.8	15.8	15.4	17.1	18.1
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°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1378.5	1389.0	1383.8	1400.9	1407.4	1396.9	1415.3	1415.7	1402.5	1418.0	1426.5
5°	1357.2	1368.0	1364.7	1382.5	1390.7	1381.5	1403.8	1408.1	1395.3	1412.7	1426.5
7.5°	1335.5	1348.3	1344.0	1362.1	1372.0	1364.7	1388.7	1395.6	1385.8	1404.8	1423.2
10°	1316.8	1327.6	1323.0	1342.1	1350.6	1344.7	1368.3	1381.2	1372.0	1395.3	1417.3
12.5°	1298.4	1307.2	1302.0	1317.8	1326.0	1318.4	1347.3	1359.1	1352.6	1376.9	1405.1
15°	1274.7	1284.6	1277.3	1291.5	1297.7	1291.1	1314.8	1335.2	1326.9	1353.6	1384.8
17.5°	1256.6	1262.2	1252.4	1263.5	1267.2	1258.3	1282.3	1302.3	1296.4	1325.3	1361.4
20°	1236.6	1241.2	1227.4	1233.6	1233.3	1222.1	1244.2	1263.9	1259.9	1291.8	1332.9
22.5°	1214.3	1216.6	1200.5	1201.8	1201.1	1182.7	1202.4	1222.5	1220.8	1253.0	1299.0
25°	1190.6	1190.9	1170.2	1169.6	1162.4	1140.7	1158.1	1180.8	1175.8	1210.6	1258.9
27.5°	1167.3	1164.0	1139.0	1133.1	1121.6	1095.7	1111.1	1131.5	1128.5	1162.7	1216.2
30°	1142.3	1138.0	1107.5	1096.6	1079.9	1050.0	1062.8	1081.9	1083.5	1113.4	1169.6
32.5°	1118.7	1107.8	1074.0	1058.2	1037.2	1002.4	1009.3	1028.6	1031.3	1061.5	1119.3
35°	1088.1	1080.9	1039.2	1012.2	991.5	953.4	960.6	974.1	978.0	1007.6	1066.4
37.5°	1059.2	1047.7	1003.3	970.5	943.9	903.8	905.8	919.6	923.5	953.4	1011.6
40°	1029.3	1012.9	965.2	926.8	896.2	854.2	851.9	866.3	869.3	898.5	951.1
42.5°	997.4	977.7	924.2	882.1	847.0	804.3	799.7	812.1	815.4	844.0	895.6
45°	965.2	941.6	882.1	836.1	797.7	754.0	749.4	758.9	763.8	790.8	840.4
47.5°	931.1	903.5	838.7	787.5	747.7	704.0	698.5	708.0	711.9	738.5	785.5
50°	895.3	861.7	794.1	737.6	698.1	655.1	646.9	658.1	661.7	686.6	732.6
52.5°	855.8	818.7	746.4	687.3	647.9	606.8	596.9	607.8	612.1	636.4	678.8
55°	814.1	774.0	698.5	641.0	598.3	558.2	550.0	554.2	563.4	586.4	625.9
57.5°	767.1	727.4	647.9	589.4	548.3	509.9	503.0	506.9	515.5	537.8	573.3
60°	717.2	675.1	596.3	537.8	498.1	461.6	455.3	459.0	468.2	488.5	521.4
62.5°	667.9	620.6	543.1	484.9	448.8	414.9	413.3	412.0	420.5	440.2	469.1
65°	608.1	562.8	487.5	432.4	399.5	368.9	362.4	365.3	373.5	391.6	421.8
67.5°	544.1	503.0	430.7	379.8	350.5	323.3	317.7	319.0	327.5	343.3	369.6
70°	476.0	439.9	372.6	326.9	302.3	276.6	273.0	273.3	281.6	295.4	318.3
72.5°	404.8	372.2	313.8	274.7	254.3	235.9	232.6	228.7	236.2	248.0	267.8
75°	332.1	303.6	255.3	223.4	207.3	191.9	188.9	185.0	192.5	202.7	218.1
77.5°	258.9	235.9	198.4	173.8	161.3	149.8	147.2	142.9	150.5	158.0	170.2
80°	187.3	170.5	148.2	122.2	117.9	110.4	107.8	103.2	110.4	115.3	124.5
82.5°	120.9	109.7	96.9	78.8	78.2	72.6	71.3	66.0	72.6	75.6	82.5
85°	61.1	55.9	52.6	40.1	41.4	37.8	37.5	31.9	37.1	38.4	42.4
87.5°	17.4	18.4	16.4	9.9	12.5	11.8	11.8	8.5	11.8	11.8	13.5
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: P837898

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-2HI-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4
2.5°	1409.7	1415.3	1416.6	1416.3	1419.9	1439.6	1433.1	1439.6
5°	1413.0	1425.5	1428.8	1433.4	1439.3	1461.6	1454.4	1462.3
7.5°	1415.0	1433.7	1441.0	1449.8	1459.3	1484.3	1478.4	1486.3
10°	1415.0	1439.3	1449.8	1464.6	1477.4	1506.3	1500.7	1509.9
12.5°	1409.1	1440.3	1455.1	1475.8	1492.2	1523.4	1521.1	1527.7
15°	1396.9	1435.4	1455.7	1482.3	1502.7	1537.5	1536.6	1544.4
17.5°	1380.5	1426.8	1451.5	1485.0	1510.6	1549.7	1552.0	1556.3
20°	1359.8	1410.7	1442.9	1484.0	1516.2	1559.2	1562.2	1568.1
22.5°	1332.5	1391.3	1430.1	1479.7	1516.8	1563.2	1568.4	1574.0
25°	1300.3	1368.0	1413.4	1471.5	1513.6	1562.8	1570.1	1575.0
27.5°	1263.5	1337.8	1392.0	1458.4	1504.4	1557.6	1566.5	1572.4
30°	1220.8	1305.6	1367.7	1441.3	1491.9	1547.7	1557.3	1563.2
32.5°	1176.8	1270.1	1338.8	1419.3	1473.8	1532.0	1540.2	1544.8
35°	1128.8	1227.1	1304.0	1391.0	1450.5	1506.7	1512.9	1517.8
37.5°	1076.6	1180.4	1264.2	1359.1	1417.6	1471.5	1477.1	1482.7
40°	1022.7	1131.5	1219.5	1320.1	1378.5	1428.5	1434.4	1438.3
42.5°	968.5	1077.3	1171.9	1274.1	1332.2	1380.2	1383.8	1387.7
45°	913.7	1021.1	1118.3	1223.1	1280.6	1325.6	1326.9	1330.2
47.5°	857.8	962.9	1059.5	1165.0	1221.8	1262.9	1264.2	1266.8
50°	801.6	904.8	996.8	1102.2	1157.8	1201.1	1195.2	1197.8
52.5°	746.4	843.7	937.6	1034.6	1089.4	1127.9	1129.5	1124.2
55°	692.2	783.9	870.3	963.6	1015.8	1045.7	1044.7	1046.7
57.5°	637.4	723.4	802.6	888.0	939.0	967.2	973.1	966.2
60°	581.5	662.3	733.3	810.5	859.8	883.4	890.3	883.8
62.5°	526.0	600.2	664.6	732.0	777.6	806.9	806.2	799.0
65°	470.5	537.8	595.3	652.5	692.2	721.5	720.1	713.6
67.5°	419.2	474.7	526.3	572.6	607.1	627.2	634.1	626.2
70°	362.7	410.7	456.0	493.1	521.7	539.8	546.4	539.5
72.5°	306.2	346.9	378.8	414.6	436.6	451.7	458.6	452.1
75°	250.3	283.9	309.8	337.7	353.2	366.0	373.9	367.3
77.5°	196.1	222.1	242.8	263.2	280.9	283.9	290.8	286.5
80°	144.6	163.3	178.4	191.9	204.7	206.0	211.6	208.9
82.5°	96.3	108.7	112.7	126.8	135.0	133.7	139.3	137.3
85°	50.9	58.5	65.4	69.6	74.2	70.0	74.9	72.9
87.5°	17.1	18.1	15.8	22.3	24.6	21.0	24.0	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)