

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: P837881

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3LO-35-120-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: P837881
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-LD4-3LO-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

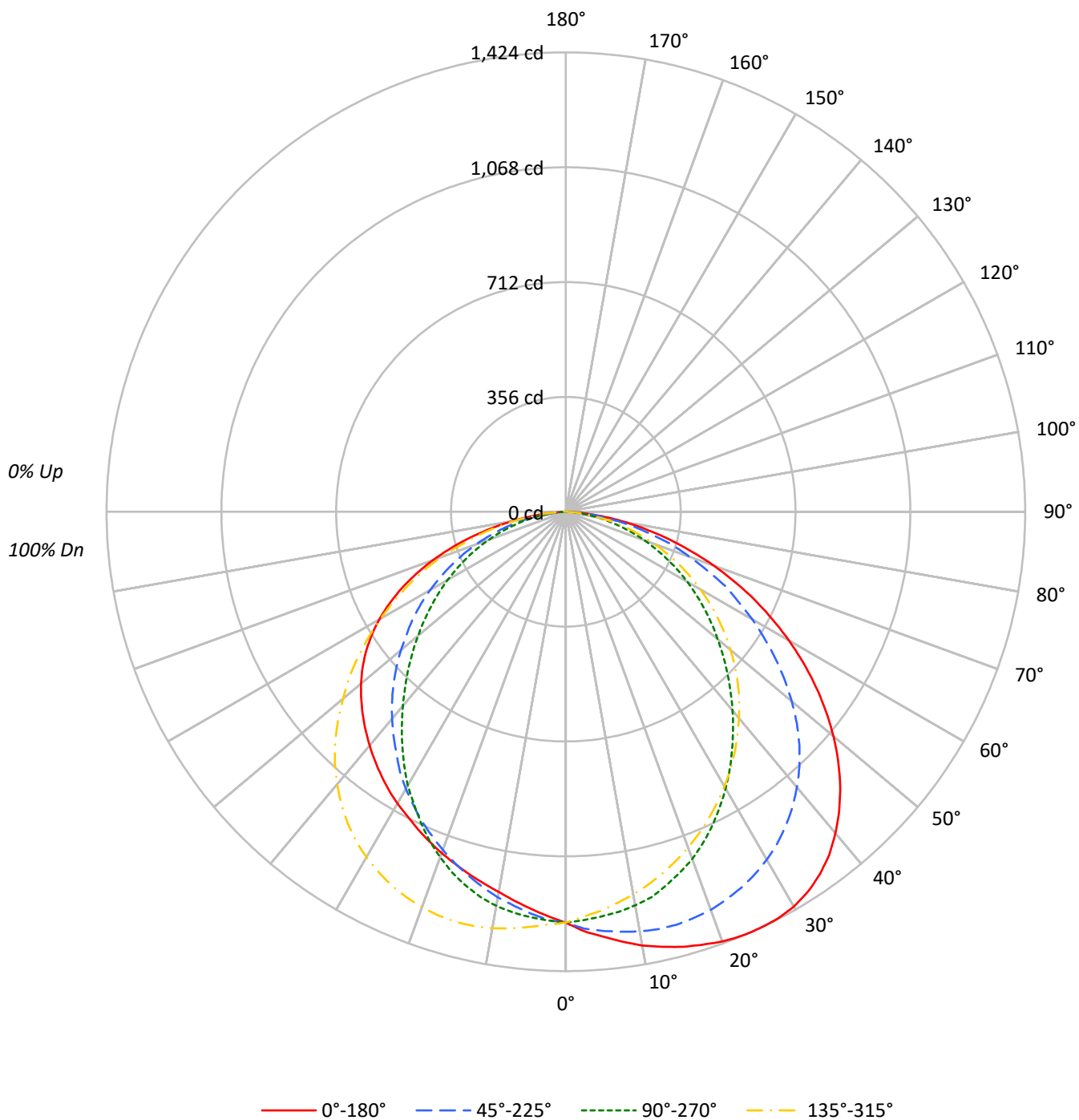
Lumens per Lamp: N/A
Luminaire Lumens: 3736.2 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	3427	3427	3427	3427
5°	3572	3402	3338	3408
10°	3731	3385	3270	3390
15°	3891	3342	3238	3343
20°	4060	3281	3224	3262
25°	4228	3189	3224	3157
30°	4392	3078	3245	3044
35°	4508	2952	3278	2905
40°	4568	2825	3323	2761
45°	4577	2696	3388	2629
50°	4534	2573	3471	2505
55°	4440	2458	3548	2390
60°	4301	2339	3596	2278
65°	4108	2202	3577	2151
70°	3838	2040	3450	2003
75°	3453	1820	3166	1810
80°	2927	1523	2661	1547
85°	2035	1010	1689	1037

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.2
10°-20°	350.1	9.4
20°-30°	536.6	14.4
30°-40°	652.4	17.5
40°-50°	678.2	18.2
50°-60°	612.7	16.4
60°-70°	465.8	12.5
70°-80°	259.7	7.0
80°-90°	59.8	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°	1007.6	27.0
0°-40°	1660.0	44.4
0°-60°	2951.0	79.0
0°-90°	3736.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1274	1274	1274	1274	1274	
5°	1322	1260	1236	1262	1322	127
15°	1396	1200	1162	1200	1396	396
25°	1424	1074	1086	1063	1424	658
35°	1372	899	998	884	1372	857
45°	1203	708	890	691	1203	926
55°	946	524	756	509	946	845
65°	645	346	562	338	645	638
75°	332	175	304	174	332	353
85°	66	33	55	34	66	83
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°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1301.7	1282.7	1283.0	1299.6	1286.8	1293.1	1275.3	1282.1	1280.0	1281.5	1266.9
5°	1322.2	1301.7	1301.4	1315.7	1301.4	1304.1	1281.5	1286.0	1279.4	1275.3	1259.5
7.5°	1343.9	1323.4	1321.3	1333.8	1315.1	1313.0	1288.0	1288.0	1276.1	1265.8	1250.9
10°	1365.3	1344.2	1341.5	1351.0	1327.8	1321.0	1290.7	1286.0	1270.2	1254.8	1238.7
12.5°	1381.3	1359.9	1357.8	1363.8	1337.6	1325.2	1290.7	1281.5	1258.3	1236.6	1224.2
15°	1396.5	1374.5	1368.8	1371.8	1341.8	1325.2	1286.5	1272.3	1242.6	1214.1	1199.5
17.5°	1407.1	1386.1	1380.4	1380.1	1343.9	1320.1	1277.6	1258.0	1222.4	1187.9	1173.4
20°	1417.8	1396.8	1389.6	1384.3	1343.3	1313.3	1264.6	1238.1	1196.5	1157.9	1145.7
22.5°	1423.2	1401.5	1393.8	1385.8	1339.4	1300.8	1248.5	1215.0	1167.4	1121.4	1111.3
25°	1424.1	1401.8	1393.5	1381.9	1331.7	1286.0	1227.7	1187.0	1133.9	1082.8	1074.2
27.5°	1421.7	1397.3	1389.0	1375.1	1320.1	1267.8	1203.1	1155.2	1098.2	1041.8	1032.6
30°	1413.4	1388.7	1380.7	1362.6	1303.8	1245.6	1176.0	1119.9	1058.7	998.7	990.7
32.5°	1396.8	1372.7	1366.2	1348.0	1286.0	1219.7	1144.6	1081.9	1015.0	957.7	945.8
35°	1372.4	1348.3	1344.2	1325.2	1261.0	1188.8	1110.1	1040.3	968.7	910.2	898.6
37.5°	1340.6	1320.4	1314.2	1295.5	1231.6	1153.8	1070.6	995.1	921.5	858.5	851.4
40°	1300.5	1281.5	1276.7	1260.1	1197.4	1114.8	1027.8	948.5	872.7	814.2	804.1
42.5°	1254.8	1236.9	1234.3	1217.0	1155.2	1071.8	981.5	900.1	822.0	765.5	755.4
45°	1202.8	1185.5	1185.0	1168.6	1109.2	1023.9	932.8	851.1	772.3	713.8	708.5
47.5°	1145.4	1130.0	1130.0	1114.8	1057.8	971.4	882.6	800.0	722.4	670.7	661.2
50°	1083.1	1068.5	1064.1	1056.6	1001.1	914.0	829.7	750.1	673.1	623.8	614.6
52.5°	1016.5	1004.0	1007.0	993.4	939.6	854.3	776.2	693.9	623.5	578.7	569.5
55°	946.4	928.6	931.3	926.2	875.4	792.8	716.2	647.6	574.8	532.6	524.0
57.5°	873.6	850.5	860.0	857.0	807.1	729.9	661.2	595.0	526.4	487.5	479.1
60°	799.1	776.8	786.6	783.9	737.0	666.9	604.5	543.0	478.3	442.9	434.6
62.5°	722.4	701.9	710.9	708.8	665.7	602.4	548.1	491.6	429.8	398.1	390.3
65°	645.2	625.6	633.6	632.1	592.3	544.2	490.1	438.5	381.1	353.5	345.8
67.5°	566.2	548.1	555.5	555.5	519.0	472.9	431.9	384.7	333.3	309.5	302.4
70°	487.8	470.8	477.4	476.8	445.9	408.5	373.1	330.9	284.9	265.3	259.3
72.5°	408.7	393.9	399.8	399.2	373.4	349.3	314.3	277.7	237.6	221.9	216.6
75°	332.1	318.1	323.8	323.2	302.1	279.5	256.1	225.8	191.3	180.3	175.0
77.5°	259.0	244.8	249.5	249.5	234.1	217.7	199.0	175.6	151.2	139.3	135.5
80°	188.9	182.1	179.7	180.0	169.6	158.9	149.4	126.8	109.0	101.0	98.3
82.5°	124.2	118.5	116.1	116.7	110.8	104.3	98.3	82.6	70.7	65.9	64.5
85°	65.9	61.8	59.7	61.2	60.0	56.4	53.5	42.8	35.3	33.6	32.7
87.5°	20.8	18.1	16.6	22.0	18.7	16.6	16.0	12.8	9.8	9.8	9.5
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°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1271.7	1271.7	1260.1	1257.4	1256.2	1257.7	1246.1	1244.1	1260.7	1255.1	1242.3
5°	1261.6	1261.0	1244.7	1241.7	1241.7	1239.9	1226.8	1223.9	1240.5	1235.7	1221.8
7.5°	1249.1	1247.3	1228.0	1225.9	1223.0	1221.8	1207.2	1205.2	1219.4	1216.4	1203.4
10°	1234.0	1232.2	1209.3	1207.8	1204.6	1202.2	1188.5	1187.0	1201.6	1196.8	1186.4
12.5°	1214.1	1210.8	1187.3	1185.8	1183.2	1182.3	1168.9	1168.3	1184.4	1179.6	1168.6
15°	1187.9	1185.2	1159.1	1159.7	1160.0	1160.0	1149.3	1148.7	1164.5	1162.4	1150.5
17.5°	1159.1	1155.5	1130.6	1132.4	1134.5	1136.8	1128.5	1130.0	1146.6	1144.0	1133.3
20°	1126.4	1122.9	1098.5	1103.6	1108.0	1112.8	1107.4	1111.6	1127.0	1125.8	1117.8
22.5°	1089.9	1086.3	1063.8	1071.5	1078.9	1087.8	1085.4	1090.2	1106.5	1106.2	1099.1
25°	1045.3	1046.2	1026.3	1035.8	1048.3	1060.8	1061.7	1069.4	1087.5	1085.7	1079.2
27.5°	1003.7	1004.9	983.8	999.9	1016.5	1032.6	1036.4	1047.1	1065.5	1064.1	1058.4
30°	960.1	961.6	941.1	963.1	983.3	1002.9	1011.2	1025.7	1044.4	1044.4	1038.5
32.5°	914.6	917.3	895.9	925.3	948.8	971.7	986.2	1001.4	1022.8	1022.2	1017.1
35°	868.0	871.0	851.4	888.8	912.3	940.2	958.3	978.5	997.5	997.8	993.9
37.5°	820.5	824.0	806.2	847.2	873.9	906.9	930.1	950.3	971.4	972.6	969.0
40°	773.2	777.1	761.6	801.2	835.0	871.9	898.6	922.4	945.5	946.1	943.7
42.5°	726.0	730.2	718.6	757.2	795.5	835.0	866.5	893.5	917.3	918.8	916.1
45°	680.0	683.5	675.2	717.4	754.2	797.3	833.5	864.1	888.2	890.3	889.4
47.5°	634.2	637.5	630.1	668.7	711.1	756.9	798.8	832.6	858.2	860.6	860.0
50°	589.4	592.0	584.0	624.4	666.6	715.3	759.0	798.2	826.7	829.1	828.8
52.5°	544.8	547.5	540.6	583.1	621.4	672.8	720.4	762.8	791.1	794.6	795.2
55°	501.7	502.9	497.6	538.3	575.4	629.2	683.8	725.1	753.3	756.3	758.1
57.5°	458.7	458.9	454.5	493.4	529.1	584.0	641.3	684.7	711.4	714.4	717.1
60°	415.9	415.6	410.5	448.3	482.4	536.8	596.5	639.6	665.4	668.1	671.6
62.5°	373.4	372.5	368.1	402.8	434.9	488.7	548.7	590.2	614.9	616.7	621.4
65°	331.2	330.3	326.2	358.2	387.4	438.8	497.6	537.1	559.4	561.7	560.8
67.5°	289.6	287.8	284.6	313.4	339.8	387.4	443.8	481.5	499.9	502.0	507.7
70°	248.0	246.0	238.5	269.1	292.3	334.8	387.4	420.9	436.4	438.5	437.6
72.5°	207.0	205.0	196.9	225.2	244.8	281.9	328.8	356.8	370.1	371.9	371.9
75°	167.2	166.1	161.0	182.4	198.7	229.0	268.8	292.0	302.4	304.5	303.9
77.5°	128.9	128.0	123.0	141.4	154.2	176.7	208.8	226.9	234.7	237.0	242.1
80°	92.4	92.1	84.1	102.2	107.8	126.8	150.3	164.3	168.4	171.7	175.3
82.5°	59.1	59.4	51.4	66.8	69.2	81.4	95.9	104.6	107.5	110.2	112.9
85°	28.8	30.0	25.5	35.3	35.6	41.9	48.1	51.4	52.6	54.7	57.0
87.5°	7.4	8.6	4.8	10.1	8.9	11.6	13.4	14.3	14.0	15.4	16.3
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°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1246.4	1255.9	1251.2	1266.6	1272.6	1263.1	1279.7	1280.0	1268.1	1282.1	1289.8
5°	1227.1	1236.9	1234.0	1250.0	1257.4	1249.1	1269.3	1273.2	1261.6	1277.3	1289.8
7.5°	1207.5	1219.1	1215.3	1231.6	1240.5	1234.0	1255.7	1261.9	1253.0	1270.2	1286.8
10°	1190.6	1200.4	1196.2	1213.5	1221.2	1215.8	1237.2	1248.8	1240.5	1261.6	1281.5
12.5°	1174.0	1182.0	1177.2	1191.5	1198.9	1192.1	1218.2	1228.9	1223.0	1245.0	1270.5
15°	1152.6	1161.5	1154.9	1167.7	1173.4	1167.4	1188.8	1207.2	1199.8	1223.9	1252.1
17.5°	1136.2	1141.3	1132.4	1142.5	1145.7	1137.7	1159.4	1177.5	1172.2	1198.3	1231.0
20°	1118.1	1122.3	1109.8	1115.4	1115.1	1105.0	1124.9	1142.8	1139.2	1168.0	1205.2
22.5°	1097.9	1100.0	1085.4	1086.6	1086.0	1069.4	1087.2	1105.3	1103.9	1133.0	1174.6
25°	1076.5	1076.8	1058.1	1057.5	1051.0	1031.4	1047.1	1067.6	1063.2	1094.6	1138.3
27.5°	1055.4	1052.5	1029.9	1024.5	1014.1	990.7	1004.6	1023.1	1020.4	1051.3	1099.7
30°	1032.9	1029.0	1001.4	991.6	976.4	949.4	961.0	978.2	979.7	1006.7	1057.5
32.5°	1011.5	1001.7	971.1	956.8	937.8	906.3	912.6	930.1	932.5	959.8	1012.1
35°	983.8	977.3	939.6	915.2	896.5	862.1	868.6	880.8	884.3	911.1	964.2
37.5°	957.7	947.3	907.2	877.5	853.4	817.2	819.0	831.5	835.0	862.1	914.6
40°	930.7	915.8	872.7	838.0	810.4	772.3	770.3	783.3	786.0	812.4	860.0
42.5°	901.9	884.0	835.6	797.6	765.8	727.2	723.0	734.3	737.3	763.1	809.8
45°	872.7	851.4	797.6	756.0	721.2	681.7	677.6	686.2	690.7	715.0	759.9
47.5°	841.9	816.9	758.4	712.0	676.1	636.6	631.5	640.2	643.7	667.8	710.3
50°	809.5	779.2	718.0	666.9	631.2	592.3	584.9	595.0	598.3	620.8	662.4
52.5°	773.8	740.3	674.9	621.4	585.8	548.7	539.7	549.6	553.4	575.4	613.7
55°	736.1	699.9	631.5	579.6	540.9	504.7	497.3	501.1	509.4	530.2	565.9
57.5°	693.6	657.7	585.8	532.9	495.8	461.0	454.8	458.4	466.1	486.3	518.4
60°	648.5	610.4	539.2	486.3	450.3	417.4	411.7	415.0	423.3	441.7	471.4
62.5°	603.9	561.1	491.0	438.5	405.8	375.2	373.7	372.5	380.2	398.1	424.2
65°	549.8	508.9	440.8	390.9	361.2	333.6	327.7	330.3	337.8	354.1	381.4
67.5°	491.9	454.8	389.4	343.4	317.0	292.3	287.3	288.4	296.2	310.4	334.2
70°	430.4	397.8	336.9	295.6	273.3	250.1	246.9	247.1	254.6	267.1	287.8
72.5°	366.0	336.6	283.7	248.3	229.9	213.3	210.3	206.8	213.6	224.3	242.1
75°	300.3	274.5	230.8	202.0	187.4	173.5	170.8	167.2	174.1	183.3	197.2
77.5°	234.1	213.3	179.4	157.1	145.9	135.5	133.1	129.2	136.1	142.9	153.9
80°	169.3	154.2	134.0	110.5	106.6	99.8	97.4	93.3	99.8	104.3	112.6
82.5°	109.3	99.2	87.6	71.3	70.7	65.6	64.5	59.7	65.6	68.3	74.6
85°	55.3	50.5	47.5	36.2	37.4	34.2	33.9	28.8	33.6	34.8	38.3
87.5°	15.7	16.6	14.9	8.9	11.3	10.7	10.7	7.7	10.7	10.7	12.2
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: P837881

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3LO-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5	1273.5
2.5°	1274.7	1279.7	1280.9	1280.6	1283.9	1301.7	1295.8	1301.7
5°	1277.6	1288.9	1291.9	1296.1	1301.4	1321.6	1315.1	1322.2
7.5°	1279.4	1296.3	1302.9	1310.9	1319.5	1342.1	1336.7	1343.9
10°	1279.4	1301.4	1310.9	1324.3	1335.9	1362.0	1356.9	1365.3
12.5°	1274.1	1302.3	1315.7	1334.4	1349.2	1377.4	1375.4	1381.3
15°	1263.1	1297.8	1316.3	1340.3	1358.7	1390.2	1389.3	1396.5
17.5°	1248.2	1290.1	1312.4	1342.7	1365.9	1401.2	1403.3	1407.1
20°	1229.5	1275.6	1304.7	1341.8	1370.9	1409.8	1412.5	1417.8
22.5°	1204.9	1258.0	1293.1	1337.9	1371.5	1413.4	1418.1	1423.2
25°	1175.7	1236.9	1277.9	1330.5	1368.5	1413.1	1419.6	1424.1
27.5°	1142.5	1209.6	1258.6	1318.6	1360.2	1408.3	1416.4	1421.7
30°	1103.9	1180.5	1236.6	1303.2	1348.9	1399.4	1408.0	1413.4
32.5°	1064.1	1148.4	1210.5	1283.3	1332.6	1385.2	1392.6	1396.8
35°	1020.7	1109.5	1179.0	1257.7	1311.5	1362.3	1367.9	1372.4
37.5°	973.4	1067.3	1143.1	1228.9	1281.8	1330.5	1335.6	1340.6
40°	924.7	1023.1	1102.7	1193.6	1246.4	1291.6	1296.9	1300.5
42.5°	875.7	974.0	1059.6	1152.0	1204.6	1247.9	1251.2	1254.8
45°	826.1	923.2	1011.2	1105.9	1157.9	1198.6	1199.8	1202.8
47.5°	775.6	870.7	958.0	1053.4	1104.7	1141.9	1143.1	1145.4
50°	724.8	818.1	901.3	996.6	1046.8	1086.0	1080.7	1083.1
52.5°	674.9	762.8	847.8	935.4	985.0	1019.8	1021.3	1016.5
55°	625.9	708.8	786.9	871.3	918.5	945.5	944.6	946.4
57.5°	576.3	654.1	725.7	802.9	849.0	874.5	879.9	873.6
60°	525.8	598.9	663.0	732.8	777.4	798.8	805.0	799.1
62.5°	475.6	542.7	600.9	661.8	703.1	729.6	729.0	722.4
65°	425.4	486.3	538.3	590.0	625.9	652.3	651.1	645.2
67.5°	379.0	429.2	475.9	517.8	549.0	567.1	573.3	566.2
70°	327.9	371.3	412.3	445.9	471.7	488.1	494.0	487.8
72.5°	276.9	313.7	342.5	374.9	394.8	408.5	414.7	408.7
75°	226.4	256.7	280.1	305.4	319.3	330.9	338.0	332.1
77.5°	177.3	200.8	219.5	237.9	254.0	256.7	262.9	259.0
80°	130.7	147.6	161.3	173.5	185.1	186.3	191.3	188.9
82.5°	87.0	98.3	101.9	114.7	122.1	120.9	126.0	124.2
85°	46.0	52.9	59.1	63.0	67.1	63.3	67.7	65.9
87.5°	15.4	16.3	14.3	20.2	22.3	19.0	21.7	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)