

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: PORTFOLIO

Report Number: P246075

Luminaire Tested: **LD8B30D010 ER8B30935 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246075  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30935 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2614.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

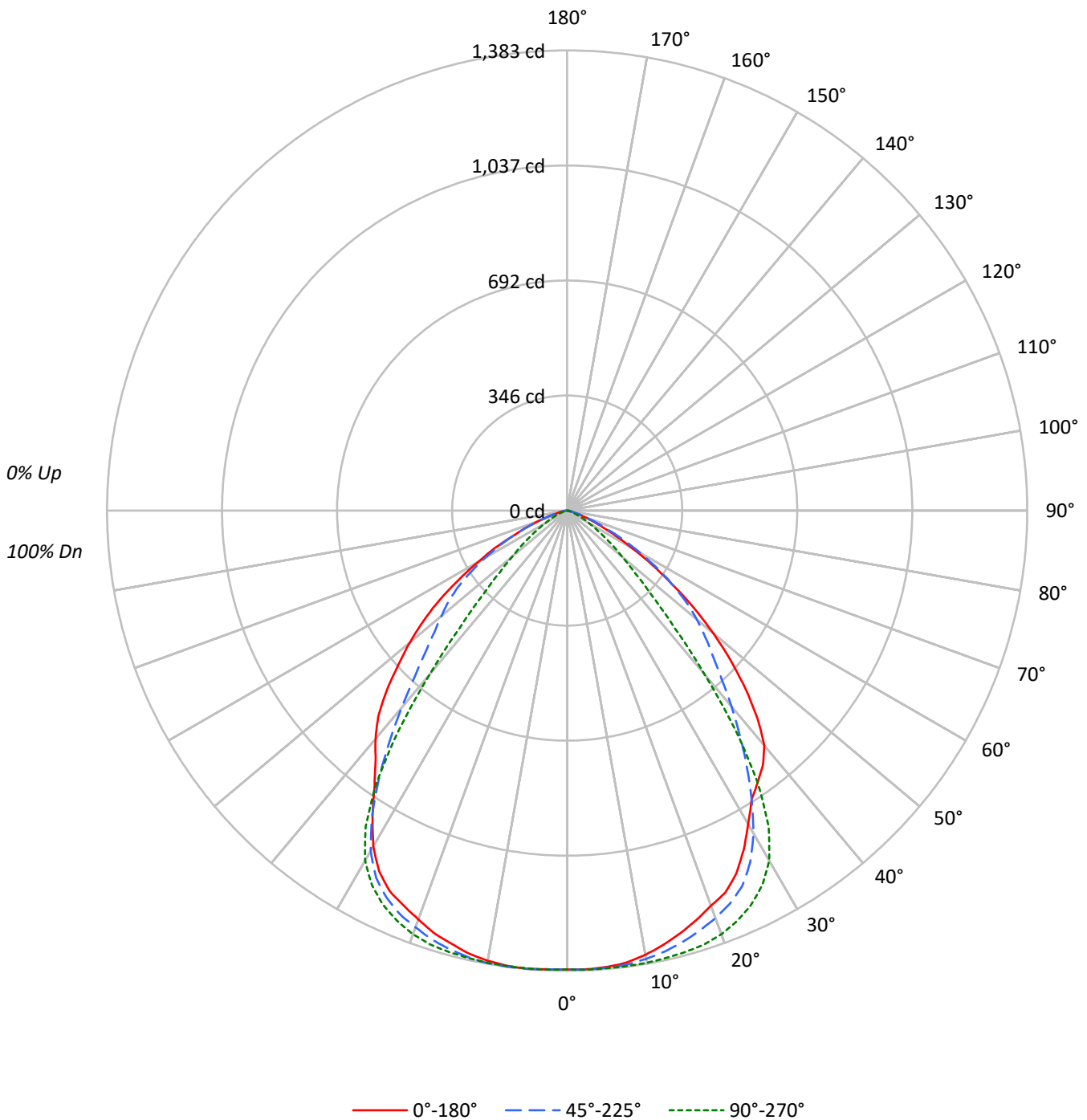
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	42529	42529	42529
5°	42624	42738	42785
10°	42443	43207	43023
15°	41974	43841	43015
20°	41469	44458	42903
25°	40931	44507	42945
30°	38722	43255	41492
35°	37565	37595	37987
40°	37102	25867	36059
45°	33060	15529	33509
50°	27488	10333	29618
55°	20618	7123	25112
60°	13969	4749	18946
65°	8427	3079	13017
70°	4670	1668	8006
75°	2121	703	4146
80°	1847	781	2895
85°	2087	1061	2901



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	5.0
10°-20°	382.3	14.6
20°-30°	580.2	22.2
30°-40°	609.4	23.3
40°-50°	456.9	17.5
50°-60°	293.1	11.2
60°-70°	125.4	4.8
70°-80°	29.6	1.1
80°-90°	5.5	0.2
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°	1094.1	41.9
0°-40°	1703.5	65.2
0°-60°	2453.5	93.9
0°-90°	2614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1379	1379	1379	1379	1379	
5°	1377	1379	1381	1383	1382	131
15°	1315	1342	1373	1364	1347	371
25°	1203	1245	1308	1284	1262	550
35°	998	942	999	987	1009	626
45°	758	620	356	602	768	581
55°	384	384	132	400	467	348
65°	116	136	42	176	178	123
75°	18	21	6	36	35	26
85°	6	4	3	6	8	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1379.9	1381.4	1380.7	1380.7	1379.9	1380.7	1380.7	1382.2	1382.2	1380.7	1379.9
5°	1377.0	1378.5	1378.5	1377.0	1377.0	1380.7	1378.5	1379.9	1379.9	1379.2	1379.2
7.5°	1370.3	1370.3	1373.3	1371.1	1371.1	1373.3	1372.5	1374.0	1375.5	1376.2	1376.2
10°	1355.5	1357.0	1357.7	1357.7	1358.5	1360.7	1362.2	1365.1	1366.6	1368.1	1368.8
12.5°	1337.0	1339.2	1340.0	1339.2	1341.4	1344.4	1348.1	1351.8	1354.0	1357.0	1359.2
15°	1314.8	1314.8	1316.3	1318.5	1320.0	1324.4	1328.1	1332.6	1338.5	1342.2	1345.9
17.5°	1290.4	1291.9	1294.1	1294.1	1297.0	1304.4	1306.7	1313.3	1320.0	1323.7	1331.1
20°	1263.7	1265.2	1267.4	1268.9	1272.6	1278.5	1283.0	1288.9	1296.3	1303.0	1310.3
22.5°	1243.0	1240.0	1241.5	1243.0	1246.7	1251.9	1257.1	1264.4	1271.9	1278.5	1285.9
25°	1203.0	1203.7	1206.0	1207.4	1211.9	1216.3	1222.3	1231.1	1237.8	1245.2	1253.3
27.5°	1149.0	1149.7	1153.4	1153.4	1157.1	1164.5	1168.2	1175.6	1184.5	1191.9	1201.5
30°	1087.5	1089.0	1089.0	1092.0	1094.2	1097.9	1101.6	1109.0	1113.4	1120.1	1133.4
32.5°	1031.3	1032.7	1032.0	1031.3	1029.0	1028.3	1027.5	1029.0	1030.5	1032.7	1037.9
35°	997.9	994.2	991.3	986.1	980.2	972.8	966.1	957.2	949.1	942.4	935.0
37.5°	966.1	965.4	960.9	953.5	941.7	928.4	912.8	893.6	874.3	853.6	833.6
40°	921.7	919.5	915.8	905.4	892.1	875.8	855.1	831.4	800.3	768.4	735.9
42.5°	846.2	846.9	842.5	834.3	821.8	806.2	784.7	758.8	725.5	687.7	645.6
45°	758.1	758.1	756.6	749.9	741.1	728.5	712.2	690.7	658.1	619.6	574.5
47.5°	666.3	667.0	664.8	663.3	659.6	651.5	639.6	623.3	600.4	563.4	518.2
50°	573.0	573.0	576.7	576.0	576.0	573.0	567.8	558.2	538.2	508.6	466.4
52.5°	479.7	481.2	483.4	486.4	490.1	496.0	490.1	485.6	473.1	450.1	413.8
55°	383.5	385.0	388.7	393.8	398.3	404.2	405.7	405.7	399.0	383.5	356.1
57.5°	301.3	299.1	302.1	306.5	312.4	318.3	322.8	328.0	327.2	316.9	294.6
60°	226.5	227.3	229.5	233.9	238.4	243.6	249.5	253.9	256.2	251.0	236.9
62.5°	165.1	165.1	168.0	172.5	174.7	182.1	185.8	188.0	190.3	189.5	180.6
65°	115.5	117.0	118.4	120.7	122.9	127.3	129.6	134.0	135.5	136.2	129.6
67.5°	81.4	79.2	80.7	82.2	84.4	87.4	91.8	91.8	94.0	94.0	89.6
70°	51.8	51.8	52.6	54.8	56.3	57.0	58.5	60.0	62.2	61.4	61.4
72.5°	34.8	34.1	34.8	35.5	36.3	38.5	38.5	39.2	40.7	41.5	38.5
75°	17.8	18.5	20.0	19.3	21.5	20.0	20.7	23.0	22.2	20.7	20.7
77.5°	14.8	14.8	14.8	14.1	15.5	15.5	14.8	16.3	15.5	15.5	14.8
80°	10.4	11.1	10.4	9.6	10.4	9.6	9.6	9.6	9.6	9.6	8.9
82.5°	8.2	6.7	7.4	6.7	7.4	7.4	6.7	5.9	5.9	6.7	5.9
85°	5.9	4.4	5.2	5.2	4.4	4.4	4.4	4.4	4.4	3.7	3.7
87.5°	3.7	2.2	2.2	2.2	3.0	3.0	3.0	2.2	3.0	3.0	1.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1381.4	1380.7	1382.2	1381.4	1381.4	1380.7	1381.4	1380.7	1382.2	1379.2	1379.9
5°	1381.4	1379.9	1380.7	1381.4	1382.2	1380.7	1380.7	1380.7	1382.2	1380.7	1381.4
7.5°	1378.5	1377.7	1379.9	1381.4	1380.7	1379.9	1381.4	1380.7	1382.2	1381.4	1382.9
10°	1372.5	1373.3	1374.8	1377.0	1377.7	1378.5	1379.9	1379.9	1382.2	1379.2	1380.7
12.5°	1363.7	1366.6	1370.3	1371.8	1374.8	1374.8	1376.2	1377.0	1378.5	1377.7	1379.9
15°	1352.6	1356.2	1360.7	1364.4	1368.1	1370.3	1372.5	1373.3	1375.5	1373.3	1374.0
17.5°	1339.2	1343.7	1350.3	1354.8	1360.7	1362.9	1365.9	1367.4	1369.6	1368.1	1368.8
20°	1320.7	1325.9	1333.3	1340.0	1343.7	1348.8	1352.6	1354.8	1356.2	1354.8	1355.5
22.5°	1294.8	1302.2	1311.8	1317.0	1324.4	1328.9	1329.6	1334.8	1338.5	1334.8	1336.3
25°	1264.4	1271.9	1279.3	1290.4	1297.0	1302.2	1307.4	1308.1	1311.8	1311.1	1310.3
27.5°	1214.1	1223.7	1236.3	1245.2	1254.1	1262.2	1268.2	1269.6	1273.3	1271.9	1272.6
30°	1145.3	1155.6	1167.5	1181.5	1194.1	1202.3	1209.7	1214.8	1218.5	1216.3	1215.6
32.5°	1047.5	1057.9	1070.5	1084.6	1099.4	1111.2	1120.1	1126.8	1131.2	1129.7	1126.0
35°	935.8	938.7	946.9	958.0	970.5	983.1	991.3	998.7	1003.9	1005.3	1005.3
37.5°	821.0	811.4	805.5	805.5	812.9	818.0	825.4	829.9	838.0	841.0	843.2
40°	710.0	687.7	667.0	651.5	641.1	640.4	640.4	642.6	650.0	659.6	668.5
42.5°	610.8	575.2	543.4	514.5	493.8	481.9	476.8	477.5	483.4	492.3	507.1
45°	531.5	487.1	447.1	412.4	384.2	365.7	356.8	356.1	360.5	370.9	387.2
47.5°	470.1	422.7	377.6	337.6	307.2	287.2	276.9	273.9	276.9	286.5	305.7
50°	419.0	370.2	323.5	282.1	249.5	228.8	219.1	215.4	219.1	227.3	246.5
52.5°	371.6	321.3	277.6	237.6	202.8	185.1	174.7	172.5	174.7	184.3	199.9
55°	316.9	273.9	231.0	191.0	160.7	142.9	134.7	132.5	134.7	143.6	159.9
57.5°	262.8	225.8	188.0	151.8	125.9	110.3	102.9	99.9	105.1	111.0	130.3
60°	212.5	182.9	151.0	119.2	97.7	83.7	77.7	77.0	78.5	85.9	99.2
62.5°	166.6	142.1	117.0	91.1	73.3	67.4	60.0	59.2	60.7	65.1	75.5
65°	119.9	104.4	85.1	66.6	52.6	44.4	41.5	42.2	43.7	46.6	56.3
67.5°	83.7	72.5	59.2	46.6	36.3	32.6	29.6	28.9	29.6	34.8	40.0
70°	56.3	49.6	40.0	35.5	25.2	20.0	20.7	18.5	21.5	21.5	25.9
72.5°	37.0	32.6	26.6	20.7	17.8	14.1	14.1	13.3	14.8	15.5	19.3
75°	19.3	14.8	14.8	10.4	7.4	3.7	6.7	5.9	5.2	5.9	7.4
77.5°	13.3	11.1	10.4	8.2	7.4	5.9	5.9	5.9	5.9	6.7	7.4
80°	8.2	8.2	5.9	5.2	4.4	3.7	4.4	4.4	4.4	4.4	5.2
82.5°	5.2	4.4	4.4	3.7	3.7	3.0	3.0	3.0	3.0	3.0	4.4
85°	4.4	3.0	3.0	2.2	3.0	5.2	2.2	3.0	3.0	3.0	2.2
87.5°	1.5	2.2	2.2	2.2	1.5	0.7	1.5	2.2	2.2	3.7	3.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1381.4	1382.2	1382.2	1381.4	1381.4	1379.9	1382.9	1380.7	1381.4	1384.4	1382.2
5°	1382.9	1383.6	1383.6	1382.9	1382.9	1382.9	1383.6	1383.6	1382.9	1382.2	1383.6
7.5°	1385.9	1385.1	1385.1	1383.6	1383.6	1382.2	1383.6	1381.4	1382.9	1381.4	1383.6
10°	1382.2	1382.9	1382.2	1381.4	1381.4	1380.7	1380.7	1378.5	1379.2	1377.0	1378.5
12.5°	1379.9	1379.2	1379.2	1377.7	1376.2	1374.8	1374.0	1371.8	1371.8	1366.6	1368.8
15°	1374.0	1374.8	1372.5	1369.6	1368.1	1364.4	1362.9	1359.9	1357.0	1353.3	1354.0
17.5°	1368.8	1366.6	1363.7	1360.7	1354.8	1351.8	1348.8	1344.4	1342.9	1338.5	1337.0
20°	1353.3	1351.8	1348.1	1342.9	1339.2	1332.6	1329.6	1325.2	1321.4	1317.0	1314.8
22.5°	1333.3	1331.8	1327.4	1322.2	1316.3	1313.3	1310.3	1302.2	1298.5	1294.1	1293.3
25°	1308.1	1305.9	1301.5	1295.5	1292.6	1284.4	1281.5	1275.5	1274.1	1269.6	1268.9
27.5°	1269.6	1266.7	1261.5	1254.1	1248.9	1243.7	1240.8	1236.3	1234.8	1230.4	1229.7
30°	1211.9	1208.2	1197.8	1194.9	1186.0	1180.8	1180.8	1174.9	1175.6	1172.7	1172.7
32.5°	1120.8	1114.9	1106.8	1100.8	1094.9	1092.0	1092.0	1089.7	1091.2	1091.2	1092.7
35°	1000.2	992.0	987.6	983.9	983.9	986.8	995.7	997.9	1002.4	1006.1	1009.1
37.5°	845.4	844.7	849.9	854.3	865.4	878.0	893.6	906.9	919.5	928.4	937.2
40°	678.1	696.6	711.4	732.2	749.2	773.6	801.8	824.7	846.2	861.7	878.0
42.5°	529.3	553.0	584.1	614.5	644.8	678.1	715.1	747.0	775.1	796.6	813.6
45°	412.4	444.9	482.7	521.2	560.4	601.9	640.4	672.9	702.6	724.8	741.8
47.5°	332.4	367.9	410.9	453.1	497.5	541.2	584.1	612.2	636.7	654.4	670.0
50°	274.6	312.4	357.6	405.7	450.1	493.8	530.8	558.2	578.2	593.7	603.3
52.5°	229.5	269.5	317.6	365.7	410.1	450.1	483.4	504.2	520.4	531.5	540.4
55°	189.5	228.0	273.2	318.3	362.0	399.8	427.2	442.7	455.3	461.9	467.1
57.5°	154.7	190.3	231.7	273.2	310.9	342.0	363.5	379.0	385.0	390.1	389.4
60°	121.4	154.7	192.5	228.0	260.6	285.8	301.3	310.2	314.6	316.9	315.4
62.5°	95.5	125.9	154.7	185.8	209.5	231.0	245.8	245.8	248.0	248.7	251.0
65°	71.1	94.0	119.2	142.1	161.4	175.5	183.6	185.8	188.8	188.0	186.6
67.5°	52.6	69.6	88.1	105.1	118.4	127.3	133.2	138.4	137.7	136.2	135.5
70°	36.3	47.4	63.7	74.0	83.7	92.5	94.0	94.8	95.5	96.2	94.8
72.5°	25.2	33.3	42.2	51.1	57.0	60.7	64.4	65.1	65.1	65.1	64.4
75°	12.6	17.0	25.2	28.9	34.1	35.5	38.5	38.5	40.7	37.8	37.0
77.5°	11.1	13.3	17.8	20.7	23.0	25.2	25.9	28.1	27.4	25.9	26.6
80°	6.7	8.2	11.1	12.6	15.5	16.3	17.0	17.8	17.0	17.8	17.8
82.5°	5.2	5.9	7.4	7.4	9.6	9.6	10.4	10.4	11.1	11.1	11.1
85°	3.0	5.2	4.4	8.9	5.9	5.9	7.4	8.9	7.4	7.4	8.9
87.5°	3.0	3.0	2.2	3.0	3.0	3.0	3.7	4.4	4.4	5.2	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





TEST NUMBER: P246075

CATALOG NUMBER: LD8B30D010 ER8B30935 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1379.2	1379.2	1379.2	1379.2
2.5°	1381.4	1382.9	1380.7	1379.9
5°	1383.6	1383.6	1382.2	1382.2
7.5°	1383.6	1383.6	1381.4	1379.9
10°	1377.7	1377.7	1375.5	1374.0
12.5°	1366.6	1366.6	1365.9	1363.7
15°	1352.6	1352.6	1349.6	1347.4
17.5°	1333.3	1334.8	1331.1	1331.1
20°	1312.6	1311.8	1308.9	1307.4
22.5°	1291.1	1289.6	1288.9	1284.4
25°	1268.2	1266.7	1264.4	1262.2
27.5°	1228.9	1228.2	1226.0	1223.0
30°	1168.9	1168.2	1165.3	1165.3
32.5°	1091.2	1090.5	1087.5	1088.3
35°	1010.5	1013.5	1012.0	1009.1
37.5°	943.2	945.4	946.9	945.4
40°	886.9	893.6	894.3	895.8
42.5°	826.9	835.8	838.8	840.2
45°	755.1	763.3	769.9	768.4
47.5°	681.8	687.7	693.7	689.2
50°	611.5	615.2	617.4	617.4
52.5°	544.9	544.9	544.1	544.9
55°	468.6	468.6	465.7	467.1
57.5°	388.7	390.1	387.9	384.2
60°	314.6	310.9	309.4	307.2
62.5°	245.0	245.0	239.9	246.5
65°	183.6	181.4	179.1	178.4
67.5°	133.2	132.5	130.3	129.6
70°	94.0	91.1	90.3	88.8
72.5°	62.9	62.9	61.4	61.4
75°	38.5	34.8	34.1	34.8
77.5°	26.6	25.9	25.9	25.2
80°	17.8	17.0	18.5	16.3
82.5°	11.1	11.8	11.1	11.8
85°	7.4	8.9	8.2	8.2
87.5°	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)