

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: P246105

Luminaire Tested: **LD8B30D010 ER8B30827 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246105
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 ER8B30827 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2604.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

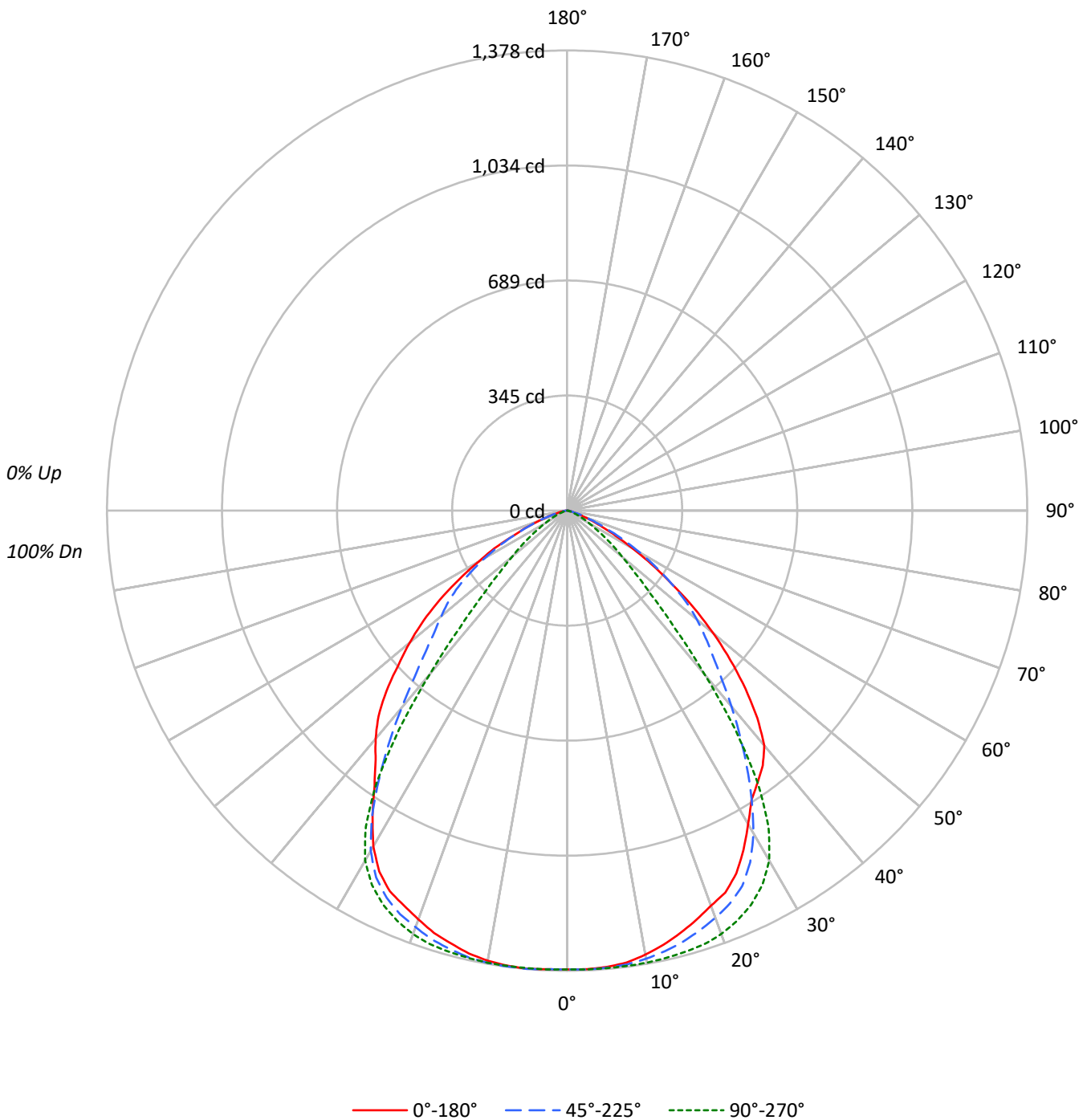
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	52	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°	42366	42366	42366
5°	42460	42574	42621
10°	42281	43045	42860
15°	41814	43672	42849
20°	41311	44288	42739
25°	40774	44337	42782
30°	38576	43091	41332
35°	37422	37452	37840
40°	36961	25767	35923
45°	32934	15468	33383
50°	27383	10295	29508
55°	20537	7097	25015
60°	13920	4730	18878
65°	8398	3065	12966
70°	4652	1659	7979
75°	2109	703	4134
80°	1829	781	2877
85°	2087	1026	2866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	5.0
10°-20°	380.8	14.6
20°-30°	578.0	22.2
30°-40°	607.0	23.3
40°-50°	455.1	17.5
50°-60°	292.0	11.2
60°-70°	124.9	4.8
70°-80°	29.5	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°	1089.9	41.9
0°-40°	1696.9	65.2
0°-60°	2444.1	93.9
0°-90°	2604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2604.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1374	1374	1374	1374	1374	
5°	1372	1374	1375	1378	1377	130
15°	1310	1337	1368	1359	1342	369
25°	1198	1240	1303	1280	1257	547
35°	994	939	995	983	1005	624
45°	755	617	355	600	766	578
55°	382	382	132	398	465	347
65°	115	136	42	175	178	123
75°	18	21	6	35	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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1374.7	1376.1	1375.4	1375.4	1374.7	1375.4	1375.4	1376.9	1376.9	1375.4	1374.7
5°	1371.7	1373.2	1373.2	1371.7	1371.7	1375.4	1373.2	1374.7	1374.7	1373.9	1373.9
7.5°	1365.1	1365.1	1368.0	1365.8	1365.8	1368.0	1367.3	1368.8	1370.2	1371.0	1371.0
10°	1350.3	1351.8	1352.5	1352.5	1353.3	1355.5	1357.0	1359.9	1361.4	1362.9	1363.6
12.5°	1331.9	1334.1	1334.8	1334.1	1336.3	1339.3	1343.0	1346.6	1348.9	1351.8	1354.0
15°	1309.8	1309.8	1311.2	1313.5	1314.9	1319.4	1323.0	1327.5	1333.4	1337.1	1340.7
17.5°	1285.4	1286.9	1289.1	1289.1	1292.1	1299.4	1301.7	1308.3	1314.9	1318.6	1326.0
20°	1258.9	1260.3	1262.6	1264.0	1267.7	1273.6	1278.0	1283.9	1291.3	1298.0	1305.3
22.5°	1238.2	1235.3	1236.7	1238.2	1241.9	1247.1	1252.2	1259.6	1267.0	1273.6	1281.0
25°	1198.4	1199.1	1201.4	1202.8	1207.3	1211.7	1217.6	1226.4	1233.1	1240.4	1248.5
27.5°	1144.6	1145.3	1149.0	1149.0	1152.7	1160.1	1163.7	1171.1	1180.0	1187.3	1196.9
30°	1083.4	1084.8	1084.8	1087.8	1090.0	1093.7	1097.4	1104.7	1109.2	1115.8	1129.1
32.5°	1027.3	1028.8	1028.0	1027.3	1025.1	1024.4	1023.6	1025.1	1026.6	1028.8	1033.9
35°	994.1	990.4	987.5	982.3	976.4	969.0	962.4	953.6	945.4	938.8	931.4
37.5°	962.4	961.7	957.2	949.9	938.1	924.8	909.3	890.1	871.0	850.3	830.4
40°	918.2	915.9	912.3	901.9	888.7	872.4	851.8	828.2	797.2	765.5	733.1
42.5°	842.9	843.7	839.3	831.1	818.6	803.1	781.7	755.9	722.7	685.1	643.1
45°	755.2	755.2	753.7	747.1	738.2	725.7	709.5	688.1	655.6	617.3	572.3
47.5°	663.7	664.5	662.2	660.8	657.1	649.0	637.2	621.0	598.1	561.2	516.2
50°	570.8	570.8	574.5	573.8	573.8	570.8	565.7	556.1	536.2	506.6	464.6
52.5°	477.9	479.4	481.6	484.5	488.2	494.1	488.2	483.8	471.2	448.4	412.3
55°	382.0	383.5	387.2	392.3	396.8	402.7	404.1	404.1	397.5	382.0	354.7
57.5°	300.2	297.9	300.9	305.3	311.2	317.1	321.5	326.7	326.0	315.6	293.5
60°	225.7	226.4	228.6	233.0	237.5	242.6	248.5	253.0	255.2	250.0	236.0
62.5°	164.5	164.5	167.4	171.8	174.0	181.4	185.1	187.3	189.5	188.8	179.9
65°	115.1	116.5	118.0	120.2	122.4	126.8	129.1	133.5	135.0	135.7	129.1
67.5°	81.1	78.9	80.4	81.9	84.1	87.0	91.5	91.5	93.7	93.7	89.2
70°	51.6	51.6	52.4	54.6	56.0	56.8	58.3	59.7	61.9	61.2	61.2
72.5°	34.7	33.9	34.7	35.4	36.1	38.3	38.3	39.1	40.6	41.3	38.3
75°	17.7	18.4	19.9	19.2	21.4	19.9	20.6	22.9	22.1	20.6	20.6
77.5°	14.7	14.7	14.7	14.0	15.5	15.5	14.7	16.2	15.5	15.5	14.7
80°	10.3	11.1	10.3	9.6	10.3	9.6	9.6	9.6	9.6	9.6	8.8
82.5°	8.1	6.6	7.4	6.6	7.4	7.4	6.6	5.9	5.9	6.6	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	2.9	2.9	2.9	2.2	2.9	2.9	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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1376.1	1375.4	1376.9	1376.1	1376.1	1375.4	1376.1	1375.4	1376.9	1373.9	1374.7
5°	1376.1	1374.7	1375.4	1376.1	1376.9	1375.4	1375.4	1375.4	1376.9	1375.4	1376.1
7.5°	1373.2	1372.4	1374.7	1376.1	1375.4	1374.7	1376.1	1375.4	1376.9	1376.1	1377.6
10°	1367.3	1368.0	1369.5	1371.7	1372.4	1373.2	1374.7	1374.7	1376.9	1373.9	1375.4
12.5°	1358.4	1361.4	1365.1	1366.5	1369.5	1369.5	1371.0	1371.7	1373.2	1372.4	1374.7
15°	1347.4	1351.1	1355.5	1359.2	1362.9	1365.1	1367.3	1368.0	1370.2	1368.0	1368.8
17.5°	1334.1	1338.5	1345.2	1349.6	1355.5	1357.7	1360.6	1362.1	1364.3	1362.9	1363.6
20°	1315.7	1320.8	1328.2	1334.8	1338.5	1343.7	1347.4	1349.6	1351.1	1349.6	1350.3
22.5°	1289.9	1297.2	1306.8	1312.0	1319.4	1323.8	1324.5	1329.7	1333.4	1329.7	1331.2
25°	1259.6	1267.0	1274.4	1285.4	1292.1	1297.2	1302.4	1303.1	1306.8	1306.1	1305.3
27.5°	1209.5	1219.1	1231.6	1240.4	1249.3	1257.4	1263.3	1264.8	1268.5	1267.0	1267.7
30°	1140.9	1151.2	1163.0	1177.0	1189.6	1197.7	1205.0	1210.2	1213.9	1211.7	1210.9
32.5°	1043.5	1053.9	1066.4	1080.4	1095.2	1106.9	1115.8	1122.4	1126.9	1125.4	1121.7
35°	932.2	935.1	943.2	954.3	966.8	979.4	987.5	994.9	1000.0	1001.5	1001.5
37.5°	817.9	808.3	802.4	802.4	809.7	814.9	822.3	826.7	834.8	837.8	840.0
40°	707.2	685.1	664.5	649.0	638.7	637.9	637.9	640.1	647.5	657.1	665.9
42.5°	608.4	573.0	541.3	512.5	491.9	480.1	474.9	475.7	481.6	490.4	505.2
45°	529.5	485.3	445.4	410.8	382.8	364.3	355.5	354.7	359.1	369.5	385.7
47.5°	468.3	421.1	376.1	336.3	306.1	286.1	275.8	272.9	275.8	285.4	304.6
50°	417.4	368.7	322.3	281.0	248.5	227.9	218.3	214.6	218.3	226.4	245.6
52.5°	370.2	320.1	276.6	236.7	202.1	184.4	174.0	171.8	174.0	183.6	199.1
55°	315.6	272.9	230.1	190.3	160.0	142.3	134.2	132.0	134.2	143.1	159.3
57.5°	261.8	224.9	187.3	151.2	125.4	109.9	102.5	99.6	104.7	110.6	129.8
60°	211.6	182.2	150.4	118.7	97.4	83.3	77.4	76.7	78.2	85.6	98.8
62.5°	165.9	141.6	116.5	90.7	73.0	67.1	59.7	59.0	60.5	64.9	75.2
65°	119.5	104.0	84.8	66.4	52.4	44.2	41.3	42.0	43.5	46.5	56.0
67.5°	83.3	72.3	59.0	46.5	36.1	32.4	29.5	28.8	29.5	34.7	39.8
70°	56.0	49.4	39.8	35.4	25.1	19.9	20.6	18.4	21.4	21.4	25.8
72.5°	36.9	32.4	26.5	20.6	17.7	14.0	14.0	13.3	14.7	15.5	19.2
75°	19.2	14.7	14.7	10.3	7.4	3.7	6.6	5.9	5.2	5.9	7.4
77.5°	13.3	11.1	10.3	8.1	7.4	5.9	5.9	5.9	5.9	6.6	7.4
80°	8.1	8.1	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	2.9	2.9	2.9	2.9	2.9	4.4
85°	4.4	2.9	2.9	2.2	2.9	5.2	2.2	2.9	2.9	2.9	2.2
87.5°	1.5	2.2	2.2	2.2	1.5	0.7	1.5	2.2	2.2	3.7	2.9
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°	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9	1373.9
2.5°	1376.1	1376.9	1376.9	1376.1	1376.1	1374.7	1377.6	1375.4	1376.1	1379.1	1376.9
5°	1377.6	1378.3	1378.3	1377.6	1377.6	1377.6	1378.3	1378.3	1377.6	1376.9	1378.3
7.5°	1380.6	1379.8	1379.8	1378.3	1378.3	1376.9	1378.3	1376.1	1377.6	1376.1	1378.3
10°	1376.9	1377.6	1376.9	1376.1	1376.1	1375.4	1375.4	1373.2	1373.9	1371.7	1373.2
12.5°	1374.7	1373.9	1373.9	1372.4	1371.0	1369.5	1368.8	1366.5	1366.5	1361.4	1363.6
15°	1368.8	1369.5	1367.3	1364.3	1362.9	1359.2	1357.7	1354.7	1351.8	1348.1	1348.9
17.5°	1363.6	1361.4	1358.4	1355.5	1349.6	1346.6	1343.7	1339.3	1337.8	1333.4	1331.9
20°	1348.1	1346.6	1343.0	1337.8	1334.1	1327.5	1324.5	1320.1	1316.4	1312.0	1309.8
22.5°	1328.2	1326.7	1322.3	1317.1	1311.2	1308.3	1305.3	1297.2	1293.5	1289.1	1288.4
25°	1303.1	1300.9	1296.5	1290.6	1287.6	1279.5	1276.6	1270.7	1269.2	1264.8	1264.0
27.5°	1264.8	1261.8	1256.7	1249.3	1244.1	1239.0	1236.0	1231.6	1230.1	1225.7	1225.0
30°	1207.3	1203.6	1193.2	1190.3	1181.4	1176.3	1176.3	1170.4	1171.1	1168.2	1168.2
32.5°	1116.5	1110.6	1102.5	1096.6	1090.7	1087.8	1087.8	1085.6	1087.0	1087.0	1088.5
35°	996.3	988.2	983.8	980.1	980.1	983.1	991.9	994.1	998.6	1002.2	1005.2
37.5°	842.2	841.5	846.6	851.1	862.1	874.7	890.1	903.4	915.9	924.8	933.6
40°	675.5	694.0	708.7	729.4	746.3	770.7	798.7	821.5	842.9	858.4	874.7
42.5°	527.3	550.9	581.9	612.1	642.3	675.5	712.4	744.1	772.1	793.5	810.5
45°	410.8	443.2	480.8	519.2	558.3	599.6	637.9	670.4	699.9	722.0	739.0
47.5°	331.1	366.5	409.3	451.3	495.6	539.1	581.9	609.9	634.2	651.9	667.4
50°	273.6	311.2	356.2	404.1	448.4	491.9	528.8	556.1	576.0	591.5	601.0
52.5°	228.6	268.4	316.4	364.3	408.6	448.4	481.6	502.2	518.4	529.5	538.4
55°	188.8	227.1	272.1	317.1	360.6	398.2	425.5	441.0	453.5	460.2	465.3
57.5°	154.1	189.5	230.8	272.1	309.7	340.7	362.1	377.6	383.5	388.7	387.9
60°	121.0	154.1	191.7	227.1	259.6	284.7	300.2	309.0	313.4	315.6	314.2
62.5°	95.1	125.4	154.1	185.1	208.7	230.1	244.9	244.9	247.1	247.8	250.0
65°	70.8	93.7	118.7	141.6	160.8	174.8	182.9	185.1	188.1	187.3	185.8
67.5°	52.4	69.3	87.8	104.7	118.0	126.8	132.7	137.9	137.2	135.7	135.0
70°	36.1	47.2	63.4	73.7	83.3	92.2	93.7	94.4	95.1	95.9	94.4
72.5°	25.1	33.2	42.0	50.9	56.8	60.5	64.2	64.9	64.9	64.9	64.2
75°	12.5	17.0	25.1	28.8	33.9	35.4	38.3	38.3	40.6	37.6	36.9
77.5°	11.1	13.3	17.7	20.6	22.9	25.1	25.8	28.0	27.3	25.8	26.5
80°	6.6	8.1	11.1	12.5	15.5	16.2	17.0	17.7	17.0	17.7	17.7
82.5°	5.2	5.9	7.4	7.4	9.6	9.6	10.3	10.3	11.1	11.1	11.1
85°	2.9	5.2	4.4	8.8	5.9	5.9	7.4	8.8	7.4	7.4	8.8
87.5°	2.9	2.9	2.2	2.9	2.9	2.9	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: P246105

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1373.9	1373.9	1373.9	1373.9
2.5°	1376.1	1377.6	1375.4	1374.7
5°	1378.3	1378.3	1376.9	1376.9
7.5°	1378.3	1378.3	1376.1	1374.7
10°	1372.4	1372.4	1370.2	1368.8
12.5°	1361.4	1361.4	1360.6	1358.4
15°	1347.4	1347.4	1344.4	1342.2
17.5°	1328.2	1329.7	1326.0	1326.0
20°	1307.6	1306.8	1303.9	1302.4
22.5°	1286.2	1284.7	1283.9	1279.5
25°	1263.3	1261.8	1259.6	1257.4
27.5°	1224.2	1223.5	1221.3	1218.3
30°	1164.5	1163.7	1160.8	1160.8
32.5°	1087.0	1086.3	1083.4	1084.1
35°	1006.7	1009.6	1008.1	1005.2
37.5°	939.5	941.8	943.2	941.8
40°	883.5	890.1	890.9	892.4
42.5°	823.8	832.6	835.6	837.0
45°	752.2	760.3	767.0	765.5
47.5°	679.2	685.1	691.0	686.6
50°	609.2	612.8	615.1	615.1
52.5°	542.8	542.8	542.1	542.8
55°	466.8	466.8	463.9	465.3
57.5°	387.2	388.7	386.4	382.8
60°	313.4	309.7	308.3	306.1
62.5°	244.1	244.1	239.0	245.6
65°	182.9	180.7	178.5	177.7
67.5°	132.7	132.0	129.8	129.1
70°	93.7	90.7	90.0	88.5
72.5°	62.7	62.7	61.2	61.2
75°	38.3	34.7	33.9	34.7
77.5°	26.5	25.8	25.8	25.1
80°	17.7	17.0	18.4	16.2
82.5°	11.1	11.8	11.1	11.8
85°	7.4	8.8	8.1	8.1
87.5°	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)