

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: P244659

Luminaire Tested: **LD8B30D010 ER8B30930 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244659
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 ER8B30930 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2589.5 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

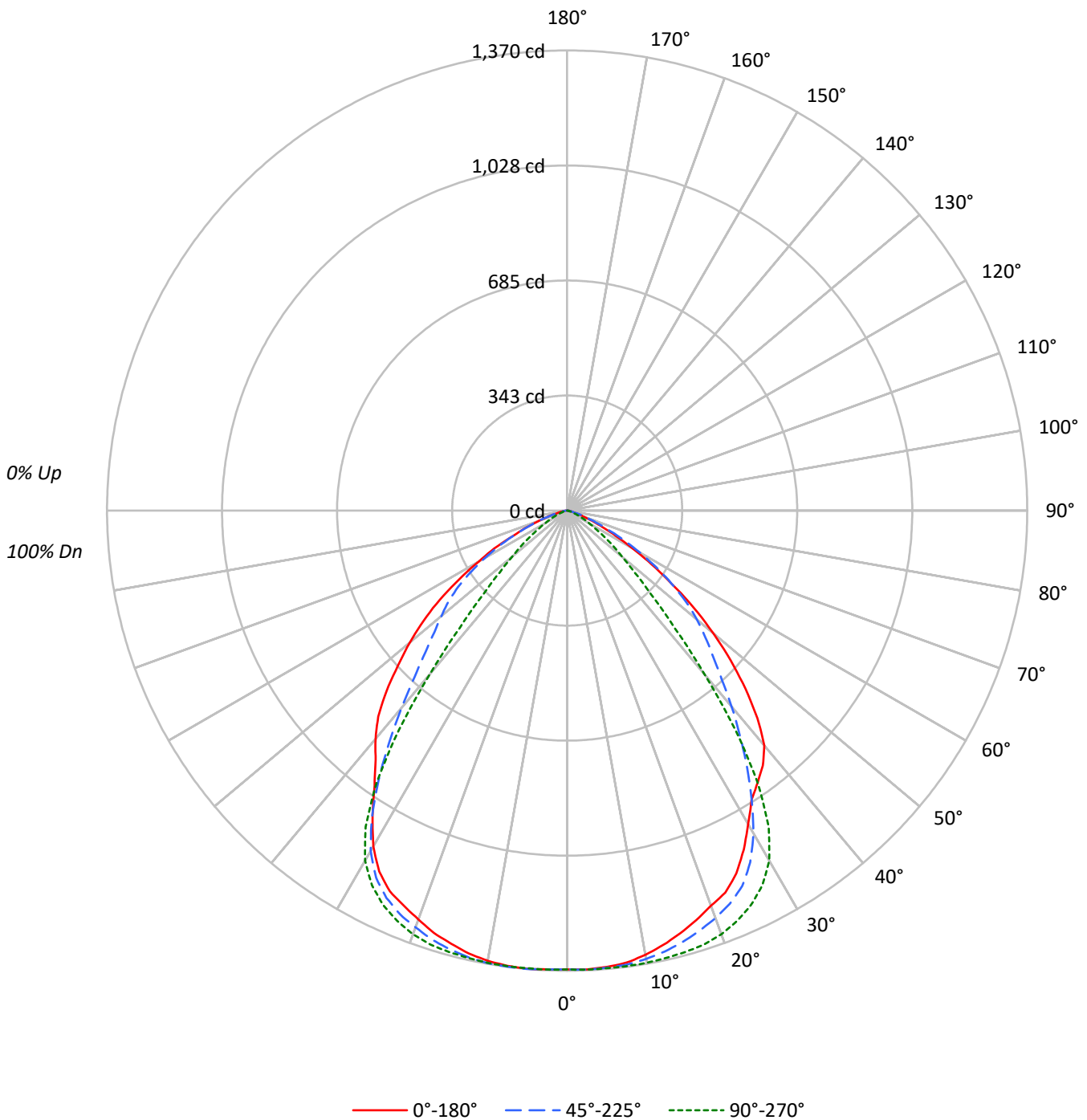
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244659

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	5.0
10°-20°	378.7	14.6
20°-30°	574.8	22.2
30°-40°	603.7	23.3
40°-50°	452.6	17.5
50°-60°	290.4	11.2
60°-70°	124.2	4.8
70°-80°	29.3	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°	1083.8	41.9
0°-40°	1687.5	65.2
0°-60°	2430.5	93.9
0°-90°	2589.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1366	1366	1366	1366	1366	
5°	1364	1366	1368	1370	1369	130
15°	1302	1330	1360	1352	1335	367
25°	1192	1234	1296	1272	1250	544
35°	989	934	989	978	1000	620
45°	751	614	353	596	761	575
55°	380	380	131	396	463	345
65°	114	135	42	174	177	122
75°	18	20	6	35	34	26
85°	6	4	3	6	8	6
90°	0	0	0	0	0	



TEST NUMBER: P244659

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3
2.5°	1367.1	1368.5	1367.7	1367.7	1367.1	1367.7	1367.7	1369.2	1369.2	1367.7	1367.1
5°	1364.0	1365.5	1365.5	1364.0	1364.0	1367.7	1365.5	1367.1	1367.1	1366.3	1366.3
7.5°	1357.5	1357.5	1360.4	1358.2	1358.2	1360.4	1359.7	1361.1	1362.6	1363.4	1363.4
10°	1342.8	1344.3	1345.0	1345.0	1345.8	1347.9	1349.5	1352.4	1353.8	1355.3	1356.0
12.5°	1324.5	1326.7	1327.4	1326.7	1328.8	1331.9	1335.4	1339.1	1341.4	1344.3	1346.4
15°	1302.5	1302.5	1303.9	1306.2	1307.6	1312.0	1315.7	1320.1	1325.9	1329.6	1333.3
17.5°	1278.3	1279.7	1282.0	1282.0	1284.9	1292.2	1294.4	1301.0	1307.6	1311.2	1318.6
20°	1251.9	1253.3	1255.5	1257.0	1260.7	1266.5	1271.0	1276.8	1284.1	1290.7	1298.1
22.5°	1231.3	1228.4	1229.8	1231.3	1235.0	1240.2	1245.3	1252.6	1259.9	1266.5	1273.9
25°	1191.7	1192.5	1194.6	1196.1	1200.6	1205.0	1210.8	1219.6	1226.1	1233.5	1241.6
27.5°	1138.2	1138.9	1142.6	1142.6	1146.2	1153.6	1157.2	1164.6	1173.5	1180.7	1190.3
30°	1077.3	1078.7	1078.7	1081.8	1083.9	1087.6	1091.3	1098.6	1103.0	1109.6	1122.8
32.5°	1021.6	1023.0	1022.4	1021.6	1019.4	1018.7	1017.9	1019.4	1020.9	1023.0	1028.2
35°	988.6	984.9	982.0	976.8	971.0	963.6	957.0	948.3	940.2	933.6	926.3
37.5°	957.0	956.3	952.0	944.6	932.9	919.7	904.3	885.1	866.1	845.6	825.8
40°	913.1	910.8	907.2	896.9	883.7	867.5	847.0	823.6	792.8	761.3	729.0
42.5°	838.3	839.0	834.6	826.5	814.1	798.6	777.4	751.7	718.7	681.3	639.5
45°	751.0	751.0	749.5	742.9	734.1	721.6	705.6	684.3	652.0	613.9	569.1
47.5°	660.0	660.7	658.6	657.1	653.4	645.4	633.6	617.6	594.8	558.1	513.3
50°	567.7	567.7	571.3	570.6	570.6	567.7	562.5	553.0	533.1	503.8	462.1
52.5°	475.2	476.6	478.9	481.8	485.5	491.3	485.5	481.1	468.6	445.9	409.9
55°	379.9	381.4	385.1	390.1	394.6	400.4	401.9	401.9	395.3	379.9	352.8
57.5°	298.5	296.3	299.2	303.6	309.5	315.3	319.7	324.9	324.2	313.9	291.9
60°	224.4	225.1	227.3	231.7	236.2	241.2	247.2	251.6	253.8	248.6	234.6
62.5°	163.6	163.6	166.5	170.8	173.1	180.4	184.1	186.3	188.4	187.8	178.9
65°	114.5	115.9	117.4	119.5	121.7	126.1	128.4	132.7	134.2	135.0	128.4
67.5°	80.7	78.5	79.9	81.4	83.6	86.5	90.9	90.9	93.2	93.2	88.8
70°	51.3	51.3	52.1	54.3	55.7	56.5	58.0	59.4	61.7	60.9	60.9
72.5°	34.5	33.7	34.5	35.2	36.0	38.1	38.1	38.9	40.4	41.0	38.1
75°	17.6	18.4	19.8	19.1	21.3	19.8	20.5	22.8	22.0	20.5	20.5
77.5°	14.7	14.7	14.7	13.9	15.4	15.4	14.7	16.1	15.4	15.4	14.7
80°	10.3	11.0	10.3	9.5	10.3	9.5	9.5	9.5	9.5	9.5	8.7
82.5°	8.1	6.6	7.3	6.6	7.3	7.3	6.6	5.8	5.8	6.6	5.8
85°	5.8	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



TEST NUMBER: P244659

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3
2.5°	1368.5	1367.7	1369.2	1368.5	1368.5	1367.7	1368.5	1367.7	1369.2	1366.3	1367.1
5°	1368.5	1367.1	1367.7	1368.5	1369.2	1367.7	1367.7	1367.7	1369.2	1367.7	1368.5
7.5°	1365.5	1364.8	1367.1	1368.5	1367.7	1367.1	1368.5	1367.7	1369.2	1368.5	1370.0
10°	1359.7	1360.4	1361.9	1364.0	1364.8	1365.5	1367.1	1367.1	1369.2	1366.3	1367.7
12.5°	1350.9	1353.8	1357.5	1359.0	1361.9	1361.9	1363.4	1364.0	1365.5	1364.8	1367.1
15°	1339.9	1343.5	1347.9	1351.6	1355.3	1357.5	1359.7	1360.4	1362.6	1360.4	1361.1
17.5°	1326.7	1331.1	1337.7	1342.1	1347.9	1350.1	1353.0	1354.5	1356.7	1355.3	1356.0
20°	1308.3	1313.5	1320.8	1327.4	1331.1	1336.2	1339.9	1342.1	1343.5	1342.1	1342.8
22.5°	1282.6	1290.0	1299.6	1304.6	1312.0	1316.4	1317.2	1322.3	1325.9	1322.3	1323.8
25°	1252.6	1259.9	1267.3	1278.3	1284.9	1290.0	1295.1	1295.9	1299.6	1298.8	1298.1
27.5°	1202.7	1212.2	1224.7	1233.5	1242.3	1250.4	1256.3	1257.8	1261.5	1259.9	1260.7
30°	1134.6	1144.8	1156.5	1170.4	1183.0	1191.0	1198.3	1203.5	1207.1	1205.0	1204.2
32.5°	1037.7	1048.0	1060.5	1074.4	1089.1	1100.8	1109.6	1116.2	1120.6	1119.1	1115.5
35°	927.0	929.9	937.9	949.0	961.5	973.9	982.0	989.3	994.4	995.9	995.9
37.5°	813.3	803.8	797.9	797.9	805.2	810.4	817.7	822.1	830.2	833.1	835.4
40°	703.3	681.3	660.7	645.4	635.2	634.4	634.4	636.6	643.9	653.4	662.3
42.5°	605.0	569.8	538.3	509.7	489.2	477.4	472.3	473.1	478.9	487.7	502.3
45°	526.5	482.6	442.9	408.5	380.6	362.3	353.5	352.8	357.2	367.5	383.6
47.5°	465.7	418.8	374.0	334.4	304.4	284.5	274.3	271.4	274.3	283.8	302.9
50°	415.1	366.7	320.5	279.5	247.2	226.7	217.0	213.4	217.0	225.1	244.2
52.5°	368.1	318.3	275.0	235.4	201.0	183.3	173.1	170.8	173.1	182.6	198.0
55°	313.9	271.4	228.8	189.2	159.2	141.6	133.5	131.3	133.5	142.3	158.4
57.5°	260.4	223.6	186.3	150.3	124.7	109.3	101.9	99.0	104.1	110.0	129.0
60°	210.5	181.2	149.7	118.0	96.9	82.8	77.0	76.2	77.7	85.1	98.3
62.5°	165.0	140.8	115.9	90.2	72.6	66.7	59.4	58.6	60.1	64.6	74.8
65°	118.8	103.5	84.3	66.0	52.1	44.1	41.0	41.8	43.3	46.2	55.7
67.5°	82.8	71.9	58.6	46.2	36.0	32.3	29.4	28.6	29.4	34.5	39.6
70°	55.7	49.1	39.6	35.2	25.0	19.8	20.5	18.4	21.3	21.3	25.7
72.5°	36.7	32.3	26.3	20.5	17.6	13.9	13.9	13.2	14.7	15.4	19.1
75°	19.1	14.7	14.7	10.3	7.3	3.7	6.6	5.8	5.2	5.8	7.3
77.5°	13.2	11.0	10.3	8.1	7.3	5.8	5.8	5.8	5.8	6.6	7.3
80°	8.1	8.1	5.8	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	0.8	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



TEST NUMBER: P244659

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3	1366.3
2.5°	1368.5	1369.2	1369.2	1368.5	1368.5	1367.1	1370.0	1367.7	1368.5	1371.4	1369.2
5°	1370.0	1370.6	1370.6	1370.0	1370.0	1370.0	1370.6	1370.6	1370.0	1369.2	1370.6
7.5°	1372.9	1372.1	1372.1	1370.6	1370.6	1369.2	1370.6	1368.5	1370.0	1368.5	1370.6
10°	1369.2	1370.0	1369.2	1368.5	1368.5	1367.7	1367.7	1365.5	1366.3	1364.0	1365.5
12.5°	1367.1	1366.3	1366.3	1364.8	1363.4	1361.9	1361.1	1359.0	1359.0	1353.8	1356.0
15°	1361.1	1361.9	1359.7	1356.7	1355.3	1351.6	1350.1	1347.2	1344.3	1340.6	1341.4
17.5°	1356.0	1353.8	1350.9	1347.9	1342.1	1339.1	1336.2	1331.9	1330.3	1325.9	1324.5
20°	1340.6	1339.1	1335.4	1330.3	1326.7	1320.1	1317.2	1312.8	1309.1	1304.6	1302.5
22.5°	1320.8	1319.3	1314.9	1309.8	1303.9	1301.0	1298.1	1290.0	1286.3	1282.0	1281.2
25°	1295.9	1293.6	1289.3	1283.4	1280.5	1272.4	1269.4	1263.6	1262.1	1257.8	1257.0
27.5°	1257.8	1254.8	1249.7	1242.3	1237.2	1232.1	1229.2	1224.7	1223.2	1218.9	1218.2
30°	1200.6	1196.9	1186.6	1183.7	1174.8	1169.8	1169.8	1163.8	1164.6	1161.7	1161.7
32.5°	1110.4	1104.5	1096.3	1090.5	1084.7	1081.8	1081.8	1079.5	1081.0	1081.0	1082.4
35°	990.7	982.8	978.3	974.7	974.7	977.6	986.4	988.6	993.0	996.7	999.6
37.5°	837.5	836.8	841.9	846.4	857.3	869.8	885.1	898.4	910.8	919.7	928.4
40°	671.8	690.1	704.8	725.3	742.2	766.4	794.2	817.0	838.3	853.6	869.8
42.5°	524.4	547.8	578.7	608.7	638.7	671.8	708.5	740.0	767.9	789.1	806.0
45°	408.5	440.8	478.2	516.3	555.1	596.3	634.4	666.7	696.0	718.0	734.8
47.5°	329.2	364.4	407.0	448.8	492.8	536.1	578.7	606.5	630.7	648.3	663.7
50°	272.1	309.5	354.2	401.9	445.9	489.2	525.9	553.0	572.7	588.2	597.7
52.5°	227.3	266.9	314.7	362.3	406.3	445.9	478.9	499.4	515.5	526.5	535.4
55°	187.8	225.9	270.6	315.3	358.6	396.0	423.2	438.5	451.0	457.6	462.7
57.5°	153.2	188.4	229.6	270.6	308.1	338.9	360.1	375.5	381.4	386.5	385.7
60°	120.3	153.2	190.7	225.9	258.2	283.1	298.5	307.3	311.6	313.9	312.4
62.5°	94.6	124.7	153.2	184.1	207.5	228.8	243.5	243.5	245.7	246.4	248.6
65°	70.4	93.2	118.0	140.8	159.9	173.8	181.9	184.1	187.0	186.3	184.9
67.5°	52.1	68.9	87.2	104.1	117.4	126.1	132.1	137.1	136.4	135.0	134.2
70°	36.0	47.0	63.1	73.3	82.8	91.7	93.2	93.8	94.6	95.3	93.8
72.5°	25.0	33.0	41.8	50.6	56.5	60.1	63.8	64.6	64.6	64.6	63.8
75°	12.4	16.8	25.0	28.6	33.7	35.2	38.1	38.1	40.4	37.4	36.7
77.5°	11.0	13.2	17.6	20.5	22.8	25.0	25.7	27.9	27.1	25.7	26.3
80°	6.6	8.1	11.0	12.4	15.4	16.1	16.8	17.6	16.8	17.6	17.6
82.5°	5.2	5.8	7.3	7.3	9.5	9.5	10.3	10.3	11.0	11.0	11.0
85°	2.9	5.2	4.4	8.7	5.8	5.8	7.3	8.7	7.3	7.3	8.7
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: P244659

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1366.3	1366.3	1366.3	1366.3
2.5°	1368.5	1370.0	1367.7	1367.1
5°	1370.6	1370.6	1369.2	1369.2
7.5°	1370.6	1370.6	1368.5	1367.1
10°	1364.8	1364.8	1362.6	1361.1
12.5°	1353.8	1353.8	1353.0	1350.9
15°	1339.9	1339.9	1336.9	1334.8
17.5°	1320.8	1322.3	1318.6	1318.6
20°	1300.2	1299.6	1296.7	1295.1
22.5°	1279.1	1277.5	1276.8	1272.4
25°	1256.3	1254.8	1252.6	1250.4
27.5°	1217.4	1216.6	1214.5	1211.6
30°	1158.0	1157.2	1154.3	1154.3
32.5°	1081.0	1080.3	1077.3	1078.1
35°	1001.1	1004.0	1002.5	999.6
37.5°	934.4	936.5	937.9	936.5
40°	878.5	885.1	885.9	887.4
42.5°	819.2	828.0	830.9	832.3
45°	748.0	756.1	762.7	761.3
47.5°	675.4	681.3	687.2	682.8
50°	605.8	609.4	611.6	611.6
52.5°	539.8	539.8	539.1	539.8
55°	464.2	464.2	461.3	462.7
57.5°	385.1	386.5	384.3	380.6
60°	311.6	308.1	306.6	304.4
62.5°	242.8	242.8	237.7	244.2
65°	181.9	179.7	177.5	176.8
67.5°	132.1	131.3	129.0	128.4
70°	93.2	90.2	89.5	88.0
72.5°	62.3	62.3	60.9	60.9
75°	38.1	34.5	33.7	34.5
77.5°	26.3	25.7	25.7	25.0
80°	17.6	16.8	18.4	16.1
82.5°	11.0	11.8	11.0	11.8
85°	7.3	8.7	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)