

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: P246093

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246093
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: LSR8B30D010 EC8B30927 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2400.7 lumens
Efficiency: N/A
Efficacy: 88.6 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

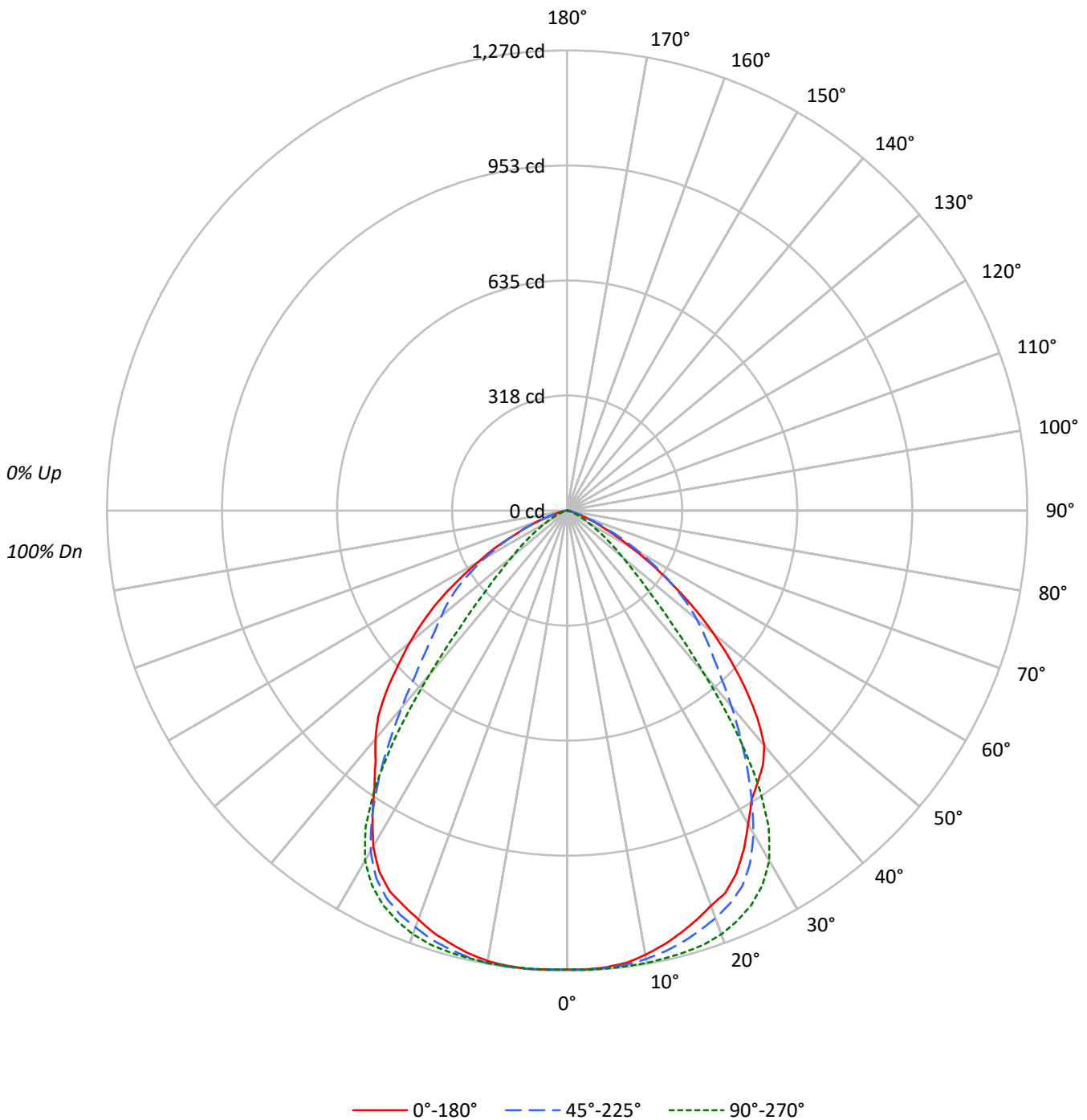
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	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						
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	52	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°	120.9	5.0
10°-20°	351.1	14.6
20°-30°	532.9	22.2
30°-40°	559.7	23.3
40°-50°	419.6	17.5
50°-60°	269.2	11.2
60°-70°	115.2	4.8
70°-80°	27.2	1.1
80°-90°	5.0	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°	1004.8	41.9
0°-40°	1564.5	65.2
0°-60°	2253.3	93.9
0°-90°	2400.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2400.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1267	1267	1267	1267	1267	
5°	1265	1267	1268	1270	1269	120
15°	1208	1233	1261	1253	1238	341
25°	1105	1144	1201	1180	1159	505
35°	916	866	917	906	927	575
45°	696	569	327	553	706	533
55°	352	352	122	367	429	319
65°	106	125	39	161	164	113
75°	16	19	5	33	32	24
85°	5	3	3	5	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°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1267.3	1268.8	1268.1	1268.1	1267.3	1268.1	1268.1	1269.4	1269.4	1268.1	1267.3
5°	1264.6	1266.0	1266.0	1264.6	1264.6	1268.1	1266.0	1267.3	1267.3	1266.6	1266.6
7.5°	1258.5	1258.5	1261.2	1259.2	1259.2	1261.2	1260.6	1261.9	1263.3	1263.9	1263.9
10°	1244.9	1246.3	1247.0	1247.0	1247.6	1249.6	1251.0	1253.8	1255.2	1256.5	1257.2
12.5°	1227.9	1230.0	1230.6	1230.0	1232.0	1234.7	1238.2	1241.6	1243.6	1246.3	1248.3
15°	1207.6	1207.6	1208.9	1211.0	1212.3	1216.4	1219.7	1223.9	1229.3	1232.7	1236.0
17.5°	1185.1	1186.4	1188.4	1188.4	1191.3	1198.0	1200.0	1206.2	1212.3	1215.7	1222.5
20°	1160.7	1162.0	1164.0	1165.4	1168.8	1174.2	1178.3	1183.7	1190.6	1196.7	1203.4
22.5°	1141.5	1138.8	1140.2	1141.5	1145.0	1149.8	1154.5	1161.3	1168.1	1174.2	1181.0
25°	1104.9	1105.5	1107.6	1108.9	1113.1	1117.1	1122.5	1130.7	1136.8	1143.7	1151.1
27.5°	1055.2	1055.9	1059.3	1059.3	1062.7	1069.5	1072.9	1079.7	1087.9	1094.6	1103.5
30°	998.8	1000.1	1000.1	1002.8	1005.0	1008.3	1011.7	1018.5	1022.6	1028.7	1041.0
32.5°	947.1	948.5	947.8	947.1	945.1	944.4	943.8	945.1	946.5	948.5	953.2
35°	916.5	913.2	910.5	905.6	900.2	893.4	887.3	879.2	871.6	865.6	858.7
37.5°	887.3	886.6	882.6	875.7	864.9	852.6	838.4	820.7	803.0	783.9	765.6
40°	846.4	844.4	841.0	831.5	819.3	804.4	785.4	763.5	735.0	705.7	675.8
42.5°	777.2	777.8	773.8	766.2	754.8	740.5	720.7	696.9	666.3	631.7	592.9
45°	696.3	696.3	694.9	688.7	680.6	669.0	654.1	634.4	604.5	569.1	527.6
47.5°	611.9	612.6	610.5	609.2	605.8	598.3	587.5	572.5	551.4	517.4	476.0
50°	526.3	526.3	529.6	529.0	529.0	526.3	521.6	512.7	494.3	467.1	428.4
52.5°	440.6	441.9	444.0	446.7	450.1	455.5	450.1	446.1	434.5	413.4	380.0
55°	352.2	353.6	357.0	361.7	365.8	371.2	372.6	372.6	366.4	352.2	327.0
57.5°	276.8	274.7	277.4	281.5	286.9	292.4	296.4	301.2	300.5	291.0	270.6
60°	208.0	208.7	210.7	214.9	218.9	223.6	229.2	233.2	235.2	230.5	217.6
62.5°	151.6	151.6	154.4	158.4	160.4	167.3	170.7	172.7	174.7	174.0	165.9
65°	106.1	107.4	108.8	110.8	112.8	116.9	119.0	123.1	124.4	125.1	119.0
67.5°	74.8	72.8	74.1	75.5	77.5	80.2	84.3	84.3	86.3	86.3	82.2
70°	47.6	47.6	48.3	50.3	51.6	52.3	53.8	55.0	57.2	56.5	56.5
72.5°	32.0	31.3	32.0	32.6	33.3	35.3	35.3	36.0	37.4	38.0	35.3
75°	16.3	17.0	18.3	17.7	19.7	18.3	19.0	21.0	20.4	19.0	19.0
77.5°	13.6	13.6	13.6	12.9	14.3	14.3	13.6	15.0	14.3	14.3	13.6
80°	9.6	10.2	9.6	8.9	9.6	8.9	8.9	8.9	8.9	8.9	8.1
82.5°	7.5	6.1	6.8	6.1	6.8	6.8	6.1	5.4	5.4	6.1	5.4
85°	5.4	4.0	4.7	4.7	4.0	4.0	4.0	4.0	4.0	3.4	3.4
87.5°	3.4	2.0	2.0	2.0	2.7	2.7	2.7	2.0	2.7	2.7	1.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1268.8	1268.1	1269.4	1268.8	1268.8	1268.1	1268.8	1268.1	1269.4	1266.6	1267.3
5°	1268.8	1267.3	1268.1	1268.8	1269.4	1268.1	1268.1	1268.1	1269.4	1268.1	1268.8
7.5°	1266.0	1265.3	1267.3	1268.8	1268.1	1267.3	1268.8	1268.1	1269.4	1268.8	1270.1
10°	1260.6	1261.2	1262.6	1264.6	1265.3	1266.0	1267.3	1267.3	1269.4	1266.6	1268.1
12.5°	1252.5	1255.2	1258.5	1259.9	1262.6	1262.6	1263.9	1264.6	1266.0	1265.3	1267.3
15°	1242.2	1245.6	1249.6	1253.1	1256.5	1258.5	1260.6	1261.2	1263.3	1261.2	1261.9
17.5°	1230.0	1234.0	1240.2	1244.2	1249.6	1251.7	1254.5	1255.8	1257.9	1256.5	1257.2
20°	1213.0	1217.7	1224.6	1230.6	1234.0	1238.9	1242.2	1244.2	1245.6	1244.2	1244.9
22.5°	1189.1	1196.0	1204.8	1209.6	1216.4	1220.4	1221.2	1225.9	1229.3	1225.9	1227.3
25°	1161.3	1168.1	1175.0	1185.1	1191.3	1196.0	1200.7	1201.4	1204.8	1204.1	1203.4
27.5°	1115.1	1123.9	1135.5	1143.7	1151.8	1159.3	1164.7	1166.1	1169.4	1168.1	1168.8
30°	1051.9	1061.3	1072.2	1085.2	1096.8	1104.2	1110.9	1115.8	1119.1	1117.1	1116.4
32.5°	962.1	971.6	983.1	996.1	1009.7	1020.6	1028.7	1034.9	1038.9	1037.6	1034.1
35°	859.4	862.1	869.6	879.9	891.3	902.9	910.5	917.2	921.9	923.3	923.3
37.5°	754.0	745.2	739.8	739.8	746.6	751.3	758.1	762.2	769.6	772.4	774.4
40°	652.1	631.7	612.6	598.3	588.8	588.2	588.2	590.2	596.9	605.8	613.9
42.5°	560.9	528.3	499.0	472.5	453.5	442.6	437.8	438.5	444.0	452.1	465.8
45°	488.1	447.4	410.6	378.7	352.9	335.9	327.7	327.0	331.1	340.7	355.6
47.5°	431.8	388.2	346.7	310.0	282.2	263.8	254.2	251.6	254.2	263.1	280.8
50°	384.9	340.0	297.1	259.1	229.2	210.2	201.3	197.9	201.3	208.7	226.4
52.5°	341.3	295.1	254.9	218.2	186.3	170.0	160.4	158.4	160.4	169.3	183.6
55°	291.0	251.6	212.2	175.4	147.6	131.2	123.8	121.7	123.8	132.0	146.8
57.5°	241.4	207.3	172.7	139.4	115.5	101.2	94.5	91.8	96.5	102.0	119.7
60°	195.1	168.0	138.7	109.5	89.8	76.8	71.4	70.6	72.1	78.9	91.1
62.5°	153.0	130.5	107.4	83.6	67.3	61.9	55.0	54.4	55.8	59.8	69.4
65°	110.1	95.9	78.2	61.2	48.3	40.8	38.0	38.8	40.2	42.9	51.6
67.5°	76.8	66.6	54.4	42.9	33.3	29.9	27.2	26.6	27.2	32.0	36.7
70°	51.6	45.6	36.7	32.6	23.2	18.3	19.0	17.0	19.7	19.7	23.7
72.5°	34.0	29.9	24.5	19.0	16.3	12.9	12.9	12.3	13.6	14.3	17.7
75°	17.7	13.6	13.6	9.6	6.8	3.4	6.1	5.4	4.7	5.4	6.8
77.5°	12.3	10.2	9.6	7.5	6.8	5.4	5.4	5.4	5.4	6.1	6.8
80°	7.5	7.5	5.4	4.7	4.0	3.4	4.0	4.0	4.0	4.0	4.7
82.5°	4.7	4.0	4.0	3.4	3.4	2.7	2.7	2.7	2.7	2.7	4.0
85°	4.0	2.7	2.7	2.0	2.7	4.7	2.0	2.7	2.7	2.7	2.0
87.5°	1.3	2.0	2.0	2.0	1.3	0.7	1.3	2.0	2.0	3.4	2.7
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°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1268.8	1269.4	1269.4	1268.8	1268.8	1267.3	1270.1	1268.1	1268.8	1271.5	1269.4
5°	1270.1	1270.8	1270.8	1270.1	1270.1	1270.1	1270.8	1270.8	1270.1	1269.4	1270.8
7.5°	1272.8	1272.1	1272.1	1270.8	1270.8	1269.4	1270.8	1268.8	1270.1	1268.8	1270.8
10°	1269.4	1270.1	1269.4	1268.8	1268.8	1268.1	1268.1	1266.0	1266.6	1264.6	1266.0
12.5°	1267.3	1266.6	1266.6	1265.3	1263.9	1262.6	1261.9	1259.9	1259.9	1255.2	1257.2
15°	1261.9	1262.6	1260.6	1257.9	1256.5	1253.1	1251.7	1249.0	1246.3	1242.9	1243.6
17.5°	1257.2	1255.2	1252.5	1249.6	1244.2	1241.6	1238.9	1234.7	1233.3	1229.3	1227.9
20°	1242.9	1241.6	1238.2	1233.3	1230.0	1223.9	1221.2	1217.0	1213.6	1209.6	1207.6
22.5°	1224.6	1223.2	1219.0	1214.3	1208.9	1206.2	1203.4	1196.0	1192.6	1188.4	1187.8
25°	1201.4	1199.4	1195.3	1189.8	1187.1	1179.7	1177.0	1171.5	1170.1	1166.1	1165.4
27.5°	1166.1	1163.4	1158.5	1151.8	1147.0	1142.2	1139.5	1135.5	1134.1	1130.1	1129.4
30°	1113.1	1109.6	1100.1	1097.4	1089.2	1084.5	1084.5	1079.0	1079.7	1077.0	1077.0
32.5°	1029.4	1024.0	1016.4	1011.0	1005.6	1002.8	1002.8	1000.8	1002.2	1002.2	1003.6
35°	918.6	911.1	907.0	903.6	903.6	906.3	914.5	916.5	920.6	924.0	926.8
37.5°	776.5	775.8	780.5	784.6	794.8	806.4	820.7	833.0	844.4	852.6	860.7
40°	622.8	639.8	653.4	672.4	688.1	710.6	736.3	757.5	777.2	791.4	806.4
42.5°	486.1	507.9	536.5	564.3	592.2	622.8	656.8	686.0	711.9	731.6	747.2
45°	378.7	408.6	443.4	478.7	514.7	552.8	588.2	618.1	645.3	665.7	681.3
47.5°	305.3	338.0	377.3	416.1	456.9	497.0	536.5	562.3	584.8	601.1	615.4
50°	252.2	286.9	328.4	372.6	413.4	453.5	487.5	512.7	531.0	545.3	554.2
52.5°	210.7	247.5	291.7	335.9	376.7	413.4	444.0	463.0	478.0	488.1	496.4
55°	174.0	209.5	250.9	292.4	332.4	367.2	392.3	406.6	418.2	424.2	429.1
57.5°	142.1	174.7	212.8	250.9	285.5	314.1	333.8	348.1	353.6	358.3	357.6
60°	111.5	142.1	176.7	209.5	239.3	262.5	276.8	284.8	289.0	291.0	289.7
62.5°	87.8	115.5	142.1	170.7	192.4	212.2	225.8	225.8	227.8	228.5	230.5
65°	65.2	86.3	109.5	130.5	148.2	161.1	168.6	170.7	173.4	172.7	171.3
67.5°	48.3	63.9	80.9	96.5	108.8	116.9	122.4	127.1	126.4	125.1	124.4
70°	33.3	43.5	58.5	68.0	76.8	85.0	86.3	87.1	87.8	88.4	87.1
72.5°	23.2	30.6	38.8	46.9	52.3	55.8	59.2	59.8	59.8	59.8	59.2
75°	11.6	15.6	23.2	26.6	31.3	32.6	35.3	35.3	37.4	34.6	34.0
77.5°	10.2	12.3	16.3	19.0	21.0	23.2	23.7	25.9	25.2	23.7	24.5
80°	6.1	7.5	10.2	11.6	14.3	15.0	15.6	16.3	15.6	16.3	16.3
82.5°	4.7	5.4	6.8	6.8	8.9	8.9	9.6	9.6	10.2	10.2	10.2
85°	2.7	4.7	4.0	8.1	5.4	5.4	6.8	8.1	6.8	6.8	8.1
87.5°	2.7	2.7	2.0	2.7	2.7	2.7	3.4	4.0	4.0	4.7	4.0
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: P246093

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1266.6	1266.6	1266.6	1266.6
2.5°	1268.8	1270.1	1268.1	1267.3
5°	1270.8	1270.8	1269.4	1269.4
7.5°	1270.8	1270.8	1268.8	1267.3
10°	1265.3	1265.3	1263.3	1261.9
12.5°	1255.2	1255.2	1254.5	1252.5
15°	1242.2	1242.2	1239.5	1237.5
17.5°	1224.6	1225.9	1222.5	1222.5
20°	1205.6	1204.8	1202.1	1200.7
22.5°	1185.8	1184.4	1183.7	1179.7
25°	1164.7	1163.4	1161.3	1159.3
27.5°	1128.7	1128.0	1125.9	1123.2
30°	1073.6	1072.9	1070.2	1070.2
32.5°	1002.2	1001.5	998.8	999.4
35°	928.1	930.8	929.5	926.8
37.5°	866.2	868.3	869.6	868.3
40°	814.5	820.7	821.4	822.7
42.5°	759.5	767.6	770.4	771.8
45°	693.6	701.0	707.1	705.7
47.5°	626.2	631.7	637.1	633.0
50°	561.6	565.0	567.0	567.0
52.5°	500.4	500.4	499.7	500.4
55°	430.4	430.4	427.7	429.1
57.5°	357.0	358.3	356.3	352.9
60°	289.0	285.5	284.2	282.2
62.5°	225.1	225.1	220.3	226.4
65°	168.6	166.6	164.6	163.8
67.5°	122.4	121.7	119.7	119.0
70°	86.3	83.6	82.9	81.6
72.5°	57.8	57.8	56.5	56.5
75°	35.3	32.0	31.3	32.0
77.5°	24.5	23.7	23.7	23.2
80°	16.3	15.6	17.0	15.0
82.5°	10.2	10.9	10.2	10.9
85°	6.8	8.1	7.5	7.5
87.5°	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)