

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: P246099

Luminaire Tested: **LSR8B30D010 EC8B309730 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246099
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 EC8B309730 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2258.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

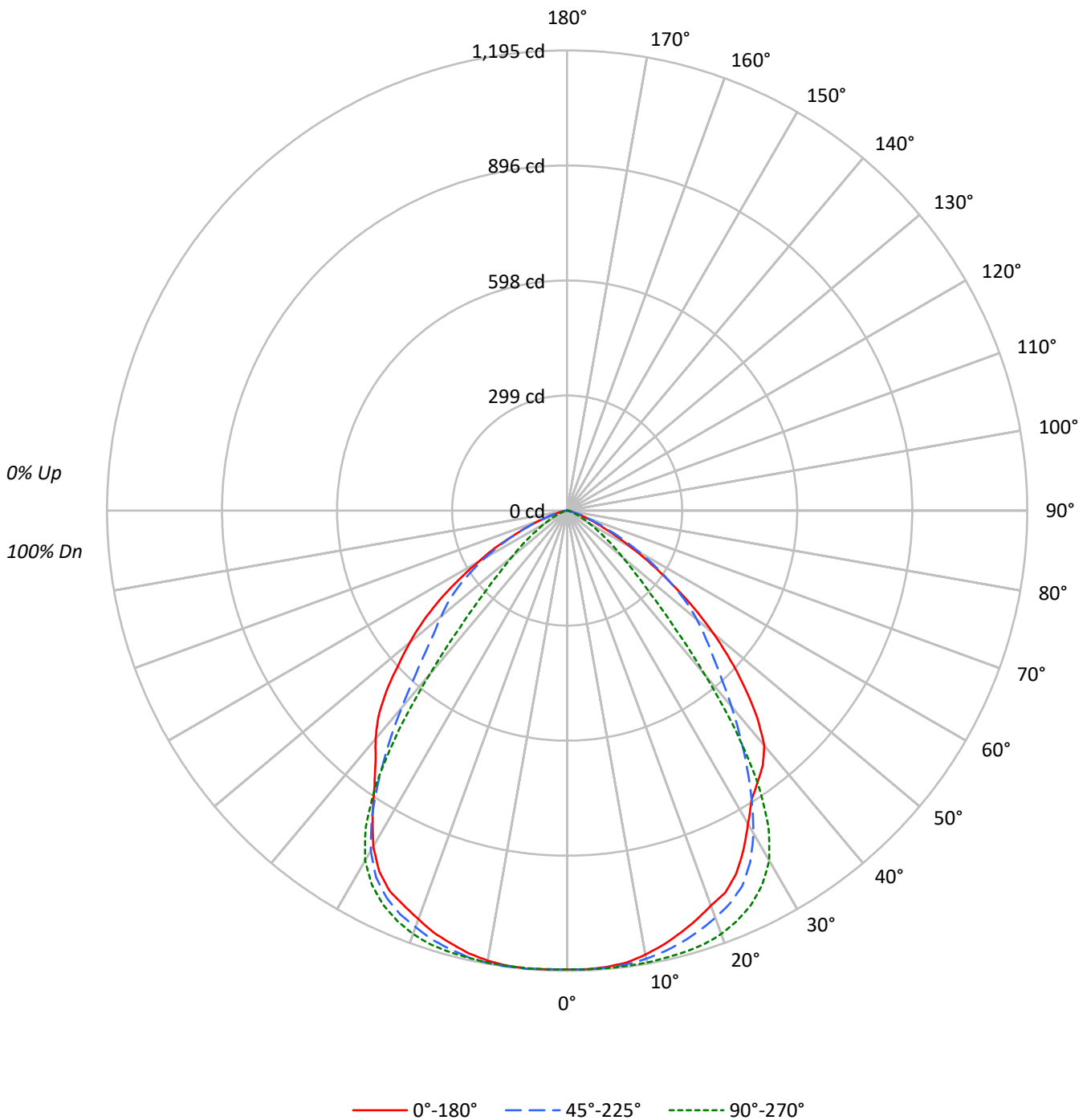
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

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°			



TEST NUMBER: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	5.0
10°-20°	330.2	14.6
20°-30°	501.2	22.2
30°-40°	526.4	23.3
40°-50°	394.7	17.5
50°-60°	253.2	11.2
60°-70°	108.3	4.8
70°-80°	25.6	1.1
80°-90°	4.8	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°	945.1	41.9
0°-40°	1471.5	65.2
0°-60°	2119.3	93.9
0°-90°	2258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1191	1191	1191	1191	1191	
5°	1189	1191	1193	1195	1194	113
15°	1136	1159	1186	1179	1164	320
25°	1039	1076	1130	1110	1090	475
35°	862	814	863	852	872	541
45°	655	535	308	520	664	501
55°	331	331	114	345	404	300
65°	100	118	36	152	154	106
75°	15	18	5	31	30	22
85°	5	3	3	5	7	5
90°	0	0	0	0	0	



TEST NUMBER: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4
2.5°	1192.0	1193.3	1192.6	1192.6	1192.0	1192.6	1192.6	1193.9	1193.9	1192.6	1192.0
5°	1189.4	1190.7	1190.7	1189.4	1189.4	1192.6	1190.7	1192.0	1192.0	1191.4	1191.4
7.5°	1183.7	1183.7	1186.2	1184.3	1184.3	1186.2	1185.6	1186.9	1188.2	1188.8	1188.8
10°	1170.9	1172.2	1172.8	1172.8	1173.5	1175.4	1176.7	1179.2	1180.5	1181.8	1182.4
12.5°	1154.9	1156.8	1157.5	1156.8	1158.8	1161.3	1164.5	1167.7	1169.6	1172.2	1174.1
15°	1135.7	1135.7	1137.0	1138.9	1140.2	1144.0	1147.2	1151.1	1156.2	1159.4	1162.6
17.5°	1114.6	1115.9	1117.8	1117.8	1120.4	1126.8	1128.7	1134.5	1140.2	1143.4	1149.8
20°	1091.6	1092.9	1094.8	1096.1	1099.3	1104.4	1108.2	1113.3	1119.7	1125.5	1131.9
22.5°	1073.7	1071.1	1072.4	1073.7	1076.9	1081.4	1085.9	1092.2	1098.6	1104.4	1110.8
25°	1039.2	1039.8	1041.7	1043.0	1046.8	1050.7	1055.8	1063.5	1069.2	1075.6	1082.6
27.5°	992.5	993.1	996.3	996.3	999.5	1005.9	1009.1	1015.5	1023.2	1029.6	1037.9
30°	939.4	940.7	940.7	943.2	945.2	948.4	951.6	958.0	961.8	967.5	979.1
32.5°	890.8	892.1	891.4	890.8	888.9	888.2	887.6	888.9	890.2	892.1	896.6
35°	862.0	858.8	856.3	851.8	846.7	840.3	834.5	826.9	819.8	814.1	807.7
37.5°	834.5	833.9	830.1	823.7	813.4	801.9	788.5	771.9	755.2	737.3	720.1
40°	796.2	794.2	791.0	782.1	770.6	756.5	738.6	718.1	691.3	663.8	635.7
42.5°	730.9	731.6	727.7	720.7	709.8	696.4	677.9	655.5	626.7	594.1	557.6
45°	654.8	654.8	653.6	647.8	640.1	629.3	615.2	596.6	568.5	535.2	496.2
47.5°	575.5	576.2	574.3	573.0	569.8	562.8	552.5	538.5	518.6	486.6	447.6
50°	495.0	495.0	498.2	497.5	497.5	495.0	490.5	482.2	464.9	439.3	402.9
52.5°	414.4	415.7	417.6	420.1	423.3	428.5	423.3	419.5	408.6	388.8	357.5
55°	331.3	332.5	335.7	340.2	344.1	349.2	350.4	350.4	344.7	331.3	307.6
57.5°	260.3	258.4	260.9	264.8	269.9	275.0	278.8	283.3	282.7	273.7	254.5
60°	195.7	196.3	198.2	202.1	205.9	210.4	215.5	219.3	221.3	216.8	204.6
62.5°	142.6	142.6	145.2	149.0	150.9	157.3	160.5	162.4	164.3	163.7	156.0
65°	99.8	101.0	102.3	104.2	106.2	110.0	111.9	115.7	117.0	117.7	111.9
67.5°	70.3	68.4	69.7	71.0	72.9	75.5	79.3	79.3	81.2	81.2	77.4
70°	44.8	44.8	45.4	47.3	48.6	49.2	50.5	51.8	53.7	53.1	53.1
72.5°	30.1	29.4	30.1	30.7	31.3	33.3	33.3	33.9	35.2	35.8	33.3
75°	15.3	16.0	17.3	16.6	18.5	17.3	17.9	19.8	19.2	17.9	17.9
77.5°	12.8	12.8	12.8	12.2	13.4	13.4	12.8	14.1	13.4	13.4	12.8
80°	9.0	9.6	9.0	8.3	9.0	8.3	8.3	8.3	8.3	8.3	7.7
82.5°	7.0	5.8	6.4	5.8	6.4	6.4	5.8	5.1	5.1	5.8	5.1
85°	5.1	3.8	4.5	4.5	3.8	3.8	3.8	3.8	3.8	3.2	3.2
87.5°	3.2	1.9	1.9	1.9	2.6	2.6	2.6	1.9	2.6	2.6	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



TEST NUMBER: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4
2.5°	1193.3	1192.6	1193.9	1193.3	1193.3	1192.6	1193.3	1192.6	1193.9	1191.4	1192.0
5°	1193.3	1192.0	1192.6	1193.3	1193.9	1192.6	1192.6	1192.6	1193.9	1192.6	1193.3
7.5°	1190.7	1190.1	1192.0	1193.3	1192.6	1192.0	1193.3	1192.6	1193.9	1193.3	1194.6
10°	1185.6	1186.2	1187.5	1189.4	1190.1	1190.7	1192.0	1192.0	1193.9	1191.4	1192.6
12.5°	1177.9	1180.5	1183.7	1185.0	1187.5	1187.5	1188.8	1189.4	1190.7	1190.1	1192.0
15°	1168.3	1171.5	1175.4	1178.6	1181.8	1183.7	1185.6	1186.2	1188.2	1186.2	1186.9
17.5°	1156.8	1160.7	1166.4	1170.3	1175.4	1177.3	1179.8	1181.1	1183.1	1181.8	1182.4
20°	1140.8	1145.3	1151.7	1157.5	1160.7	1165.1	1168.3	1170.3	1171.5	1170.3	1170.9
22.5°	1118.5	1124.9	1133.2	1137.6	1144.0	1147.9	1148.5	1153.0	1156.2	1153.0	1154.3
25°	1092.2	1098.6	1105.0	1114.6	1120.4	1124.9	1129.3	1130.0	1133.2	1132.5	1131.9
27.5°	1048.8	1057.1	1067.9	1075.6	1083.3	1090.3	1095.4	1096.7	1099.9	1098.6	1099.3
30°	989.3	998.2	1008.5	1020.6	1031.5	1038.5	1044.9	1049.4	1052.6	1050.7	1050.0
32.5°	904.9	913.8	924.7	936.8	949.6	959.9	967.5	973.3	977.1	975.9	972.7
35°	808.3	810.9	817.9	827.5	838.4	849.2	856.3	862.7	867.1	868.4	868.4
37.5°	709.2	700.9	695.8	695.8	702.2	706.6	713.0	716.9	723.9	726.5	728.4
40°	613.3	594.1	576.2	562.8	553.8	553.2	553.2	555.1	561.5	569.8	577.5
42.5°	527.6	496.9	469.4	444.4	426.5	416.3	411.8	412.5	417.6	425.3	438.0
45°	459.2	420.8	386.3	356.2	331.9	315.9	308.2	307.6	311.4	320.4	334.5
47.5°	406.1	365.1	326.1	291.6	265.4	248.1	239.2	236.6	239.2	247.5	264.1
50°	362.0	319.8	279.5	243.6	215.5	197.6	189.3	186.1	189.3	196.3	212.9
52.5°	321.0	277.5	239.8	205.3	175.2	159.9	150.9	149.0	150.9	159.2	172.7
55°	273.7	236.6	199.5	165.0	138.8	123.4	116.4	114.5	116.4	124.1	138.1
57.5°	227.0	195.0	162.4	131.1	108.7	95.3	88.9	86.3	90.8	95.9	112.6
60°	183.5	158.0	130.5	103.0	84.4	72.3	67.1	66.5	67.8	74.2	85.7
62.5°	143.9	122.8	101.0	78.7	63.3	58.2	51.8	51.2	52.4	56.3	65.2
65°	103.6	90.2	73.5	57.6	45.4	38.4	35.8	36.5	37.7	40.3	48.6
67.5°	72.3	62.7	51.2	40.3	31.3	28.1	25.6	24.9	25.6	30.1	34.5
70°	48.6	42.8	34.5	30.7	21.7	17.3	17.9	16.0	18.5	18.5	22.4
72.5°	32.0	28.1	23.0	17.9	15.3	12.2	12.2	11.5	12.8	13.4	16.6
75°	16.6	12.8	12.8	9.0	6.4	3.2	5.8	5.1	4.5	5.1	6.4
77.5°	11.5	9.6	9.0	7.0	6.4	5.1	5.1	5.1	5.1	5.8	6.4
80°	7.0	7.0	5.1	4.5	3.8	3.2	3.8	3.8	3.8	3.8	4.5
82.5°	4.5	3.8	3.8	3.2	3.2	2.6	2.6	2.6	2.6	2.6	3.8
85°	3.8	2.6	2.6	1.9	2.6	4.5	1.9	2.6	2.6	2.6	1.9
87.5°	1.3	1.9	1.9	1.9	1.3	0.6	1.3	1.9	1.9	3.2	2.6
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: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4	1191.4
2.5°	1193.3	1193.9	1193.9	1193.3	1193.3	1192.0	1194.6	1192.6	1193.3	1195.8	1193.9
5°	1194.6	1195.2	1195.2	1194.6	1194.6	1194.6	1195.2	1195.2	1194.6	1193.9	1195.2
7.5°	1197.1	1196.5	1196.5	1195.2	1195.2	1193.9	1195.2	1193.3	1194.6	1193.3	1195.2
10°	1193.9	1194.6	1193.9	1193.3	1193.3	1192.6	1192.6	1190.7	1191.4	1189.4	1190.7
12.5°	1192.0	1191.4	1191.4	1190.1	1188.8	1187.5	1186.9	1185.0	1185.0	1180.5	1182.4
15°	1186.9	1187.5	1185.6	1183.1	1181.8	1178.6	1177.3	1174.7	1172.2	1169.0	1169.6
17.5°	1182.4	1180.5	1177.9	1175.4	1170.3	1167.7	1165.1	1161.3	1160.0	1156.2	1154.9
20°	1169.0	1167.7	1164.5	1160.0	1156.8	1151.1	1148.5	1144.7	1141.5	1137.6	1135.7
22.5°	1151.7	1150.4	1146.6	1142.1	1137.0	1134.5	1131.9	1124.9	1121.7	1117.8	1117.2
25°	1130.0	1128.1	1124.2	1119.1	1116.5	1109.5	1106.9	1101.8	1100.6	1096.7	1096.1
27.5°	1096.7	1094.2	1089.7	1083.3	1078.8	1074.3	1071.8	1067.9	1066.7	1062.8	1062.2
30°	1046.8	1043.6	1034.7	1032.1	1024.5	1020.0	1020.0	1014.9	1015.5	1013.0	1013.0
32.5°	968.2	963.1	956.0	950.9	945.8	943.2	943.2	941.3	942.6	942.6	943.9
35°	863.9	856.9	853.1	849.9	849.9	852.4	860.1	862.0	865.9	869.1	871.6
37.5°	730.3	729.7	734.1	738.0	747.6	758.4	771.9	783.4	794.2	801.9	809.6
40°	585.8	601.8	614.5	632.5	647.2	668.3	692.6	712.4	730.9	744.4	758.4
42.5°	457.2	477.7	504.6	530.8	557.0	585.8	617.8	645.2	669.5	688.1	702.8
45°	356.2	384.3	417.0	450.2	484.1	519.9	553.2	581.3	606.9	626.1	640.8
47.5°	287.1	317.8	354.9	391.4	429.7	467.5	504.6	528.9	550.0	565.3	578.7
50°	237.2	269.9	308.9	350.4	388.8	426.5	458.5	482.2	499.4	512.9	521.2
52.5°	198.2	232.8	274.3	315.9	354.3	388.8	417.6	435.5	449.6	459.2	466.8
55°	163.7	197.0	236.0	275.0	312.7	345.3	369.0	382.4	393.3	399.0	403.5
57.5°	133.7	164.3	200.2	236.0	268.6	295.5	314.0	327.4	332.5	337.0	336.4
60°	104.9	133.7	166.3	197.0	225.1	246.8	260.3	267.9	271.8	273.7	272.4
62.5°	82.5	108.7	133.7	160.5	181.0	199.5	212.3	212.3	214.2	214.9	216.8
65°	61.4	81.2	103.0	122.8	139.4	151.6	158.6	160.5	163.1	162.4	161.2
67.5°	45.4	60.1	76.1	90.8	102.3	110.0	115.1	119.6	119.0	117.7	117.0
70°	31.3	40.9	55.0	64.0	72.3	79.9	81.2	81.9	82.5	83.1	81.9
72.5°	21.7	28.8	36.5	44.1	49.2	52.4	55.6	56.3	56.3	56.3	55.6
75°	10.9	14.7	21.7	24.9	29.4	30.7	33.3	33.3	35.2	32.6	32.0
77.5°	9.6	11.5	15.3	17.9	19.8	21.7	22.4	24.3	23.7	22.4	23.0
80°	5.8	7.0	9.6	10.9	13.4	14.1	14.7	15.3	14.7	15.3	15.3
82.5°	4.5	5.1	6.4	6.4	8.3	8.3	9.0	9.0	9.6	9.6	9.6
85°	2.6	4.5	3.8	7.7	5.1	5.1	6.4	7.7	6.4	6.4	7.7
87.5°	2.6	2.6	1.9	2.6	2.6	2.6	3.2	3.8	3.8	4.5	3.8
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: P246099

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1191.4	1191.4	1191.4	1191.4
2.5°	1193.3	1194.6	1192.6	1192.0
5°	1195.2	1195.2	1193.9	1193.9
7.5°	1195.2	1195.2	1193.3	1192.0
10°	1190.1	1190.1	1188.2	1186.9
12.5°	1180.5	1180.5	1179.8	1177.9
15°	1168.3	1168.3	1165.8	1163.9
17.5°	1151.7	1153.0	1149.8	1149.8
20°	1133.8	1133.2	1130.6	1129.3
22.5°	1115.3	1114.0	1113.3	1109.5
25°	1095.4	1094.2	1092.2	1090.3
27.5°	1061.6	1060.9	1059.0	1056.4
30°	1009.7	1009.1	1006.6	1006.6
32.5°	942.6	942.0	939.4	940.1
35°	872.9	875.5	874.2	871.6
37.5°	814.7	816.6	817.9	816.6
40°	766.1	771.9	772.5	773.8
42.5°	714.3	722.0	724.5	725.8
45°	652.3	659.3	665.1	663.8
47.5°	589.0	594.1	599.2	595.4
50°	528.2	531.4	533.3	533.3
52.5°	470.7	470.7	470.0	470.7
55°	404.8	404.8	402.2	403.5
57.5°	335.7	337.0	335.1	331.9
60°	271.8	268.6	267.3	265.4
62.5°	211.7	211.7	207.2	212.9
65°	158.6	156.7	154.8	154.1
67.5°	115.1	114.5	112.6	111.9
70°	81.2	78.7	78.0	76.7
72.5°	54.4	54.4	53.1	53.1
75°	33.3	30.1	29.4	30.1
77.5°	23.0	22.4	22.4	21.7
80°	15.3	14.7	16.0	14.1
82.5°	9.6	10.2	9.6	10.2
85°	6.4	7.7	7.0	7.0
87.5°	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)