

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 EC8B30930 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 EC8B30930 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: 2531.2 lumens
Efficiency: N/A
Efficacy: 93.4 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

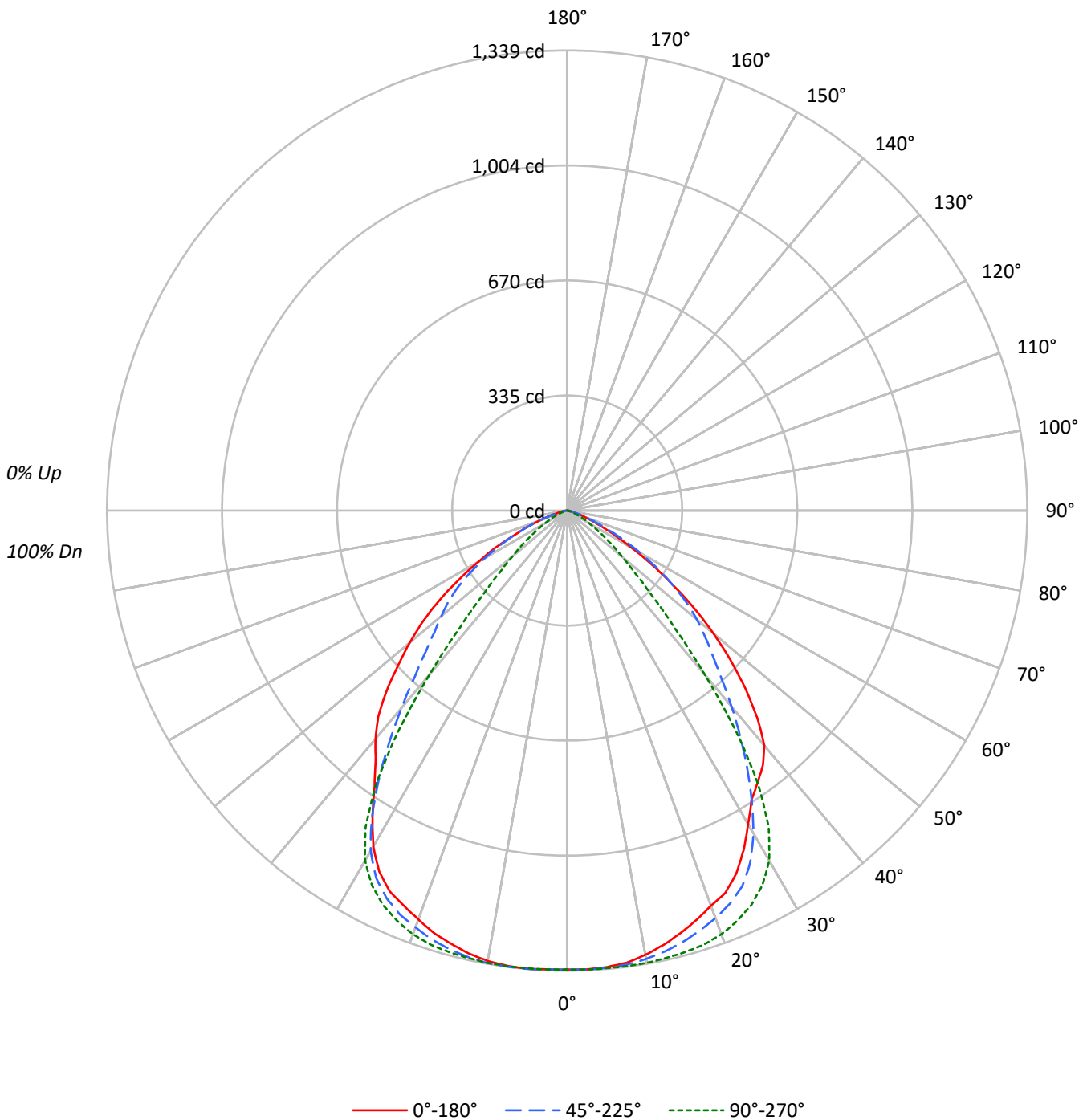
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	127.5	5.0
10°-20°	370.2	14.6
20°-30°	561.8	22.2
30°-40°	590.1	23.3
40°-50°	442.4	17.5
50°-60°	283.9	11.2
60°-70°	121.4	4.8
70°-80°	28.7	1.1
80°-90°	5.3	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°	1059.4	41.9
0°-40°	1649.5	65.2
0°-60°	2375.8	93.9
0°-90°	2531.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2531.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1336	1336	1336	1336	1336	
5°	1333	1336	1337	1339	1338	127
15°	1273	1300	1330	1321	1305	359
25°	1165	1206	1267	1244	1222	532
35°	966	913	967	956	977	606
45°	734	600	345	583	744	562
55°	371	371	128	387	452	337
65°	112	132	41	170	173	119
75°	17	20	6	34	34	25
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°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1336.2	1337.7	1336.9	1336.9	1336.2	1336.9	1336.9	1338.4	1338.4	1336.9	1336.2
5°	1333.3	1334.8	1334.8	1333.3	1333.3	1336.9	1334.8	1336.2	1336.2	1335.6	1335.6
7.5°	1326.9	1326.9	1329.7	1327.6	1327.6	1329.7	1329.1	1330.5	1332.0	1332.6	1332.6
10°	1312.6	1314.0	1314.7	1314.7	1315.5	1317.6	1319.1	1321.9	1323.3	1324.8	1325.5
12.5°	1294.6	1296.8	1297.6	1296.8	1299.0	1301.8	1305.4	1309.0	1311.1	1314.0	1316.2
15°	1273.1	1273.1	1274.6	1276.7	1278.2	1282.4	1286.0	1290.4	1296.1	1299.7	1303.3
17.5°	1249.5	1250.9	1253.1	1253.1	1256.0	1263.1	1265.3	1271.8	1278.2	1281.8	1288.9
20°	1223.7	1225.1	1227.3	1228.7	1232.3	1238.0	1242.3	1248.0	1255.2	1261.7	1268.9
22.5°	1203.6	1200.7	1202.2	1203.6	1207.2	1212.2	1217.3	1224.4	1231.5	1238.0	1245.2
25°	1164.9	1165.6	1167.7	1169.2	1173.5	1177.8	1183.6	1192.2	1198.6	1205.7	1213.6
27.5°	1112.6	1113.3	1116.9	1116.9	1120.4	1127.6	1131.2	1138.4	1147.0	1154.2	1163.5
30°	1053.1	1054.5	1054.5	1057.3	1059.6	1063.2	1066.7	1073.9	1078.2	1084.6	1097.6
32.5°	998.6	1000.0	999.3	998.6	996.5	995.7	995.0	996.5	997.9	1000.0	1005.1
35°	966.3	962.7	959.9	954.9	949.2	942.0	935.5	927.0	919.0	912.6	905.4
37.5°	935.5	934.8	930.5	923.4	911.8	898.9	883.9	865.3	846.6	826.5	807.2
40°	892.5	890.3	886.7	876.7	863.8	848.0	828.0	805.0	774.9	744.1	712.6
42.5°	819.3	820.1	815.8	807.9	795.7	780.7	759.9	734.8	702.5	666.0	625.1
45°	734.0	734.0	732.7	726.2	717.6	705.4	689.6	668.8	637.3	600.0	556.2
47.5°	645.1	645.9	643.8	642.3	638.7	630.9	619.4	603.7	581.4	545.5	501.8
50°	554.9	554.9	558.5	557.7	557.7	554.9	549.9	540.5	521.2	492.5	451.7
52.5°	464.5	466.0	468.1	470.9	474.5	480.3	474.5	470.3	458.0	435.8	400.8
55°	371.4	372.7	376.3	381.4	385.7	391.5	392.8	392.8	386.4	371.4	344.8
57.5°	291.8	289.7	292.5	296.8	302.6	308.3	312.5	317.6	316.9	306.8	285.3
60°	219.4	220.1	222.2	226.6	230.8	235.9	241.6	245.8	248.1	243.0	229.4
62.5°	159.9	159.9	162.8	167.0	169.2	176.3	179.9	182.1	184.2	183.5	174.9
65°	111.9	113.2	114.7	116.8	119.1	123.3	125.4	129.7	131.2	131.9	125.4
67.5°	78.8	76.7	78.1	79.6	81.7	84.6	88.9	88.9	91.0	91.0	86.8
70°	50.2	50.2	50.9	53.0	54.5	55.2	56.6	58.1	60.2	59.5	59.5
72.5°	33.7	33.0	33.7	34.4	35.1	37.3	37.3	38.0	39.5	40.1	37.3
75°	17.2	17.9	19.4	18.6	20.7	19.4	20.1	22.2	21.5	20.1	20.1
77.5°	14.3	14.3	14.3	13.7	15.0	15.0	14.3	15.8	15.0	15.0	14.3
80°	10.1	10.8	10.1	9.3	10.1	9.3	9.3	9.3	9.3	9.3	8.6
82.5°	7.8	6.5	7.2	6.5	7.2	7.2	6.5	5.7	5.7	6.5	5.7
85°	5.7	4.3	5.0	5.0	4.3	4.3	4.3	4.3	4.3	3.6	3.6
87.5°	3.6	2.1	2.1	2.1	2.9	2.9	2.9	2.1	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°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1337.7	1336.9	1338.4	1337.7	1337.7	1336.9	1337.7	1336.9	1338.4	1335.6	1336.2
5°	1337.7	1336.2	1336.9	1337.7	1338.4	1336.9	1336.9	1336.9	1338.4	1336.9	1337.7
7.5°	1334.8	1334.1	1336.2	1337.7	1336.9	1336.2	1337.7	1336.9	1338.4	1337.7	1339.1
10°	1329.1	1329.7	1331.2	1333.3	1334.1	1334.8	1336.2	1336.2	1338.4	1335.6	1336.9
12.5°	1320.4	1323.3	1326.9	1328.4	1331.2	1331.2	1332.6	1333.3	1334.8	1334.1	1336.2
15°	1309.7	1313.3	1317.6	1321.2	1324.8	1326.9	1329.1	1329.7	1332.0	1329.7	1330.5
17.5°	1296.8	1301.1	1307.5	1311.9	1317.6	1319.8	1322.6	1324.0	1326.3	1324.8	1325.5
20°	1278.8	1283.9	1291.1	1297.6	1301.1	1306.1	1309.7	1311.9	1313.3	1311.9	1312.6
22.5°	1253.8	1261.0	1270.3	1275.2	1282.4	1286.8	1287.5	1292.5	1296.1	1292.5	1294.0
25°	1224.4	1231.5	1238.7	1249.5	1256.0	1261.0	1265.9	1266.7	1270.3	1269.5	1268.9
27.5°	1175.7	1185.0	1197.1	1205.7	1214.4	1222.2	1227.9	1229.4	1233.0	1231.5	1232.3
30°	1109.0	1119.0	1130.5	1144.1	1156.3	1164.2	1171.3	1176.4	1180.0	1177.8	1177.0
32.5°	1014.4	1024.4	1036.6	1050.2	1064.5	1076.0	1084.6	1091.1	1095.3	1094.0	1090.4
35°	906.1	909.0	916.9	927.6	939.8	952.0	959.9	967.1	972.0	973.5	973.5
37.5°	795.0	785.7	780.0	780.0	787.2	792.1	799.3	803.6	811.5	814.4	816.5
40°	687.5	666.0	645.9	630.9	620.8	620.1	620.1	622.3	629.4	638.7	647.4
42.5°	591.4	557.0	526.2	498.2	478.1	466.7	461.6	462.4	468.1	476.8	491.0
45°	514.8	471.7	433.0	399.3	372.1	354.1	345.5	344.8	349.1	359.2	375.0
47.5°	455.2	409.3	365.6	326.9	297.5	278.1	268.1	265.2	268.1	277.4	296.1
50°	405.8	358.5	313.3	273.1	241.6	221.5	212.2	208.6	212.2	220.1	238.7
52.5°	359.8	311.1	268.8	230.1	196.4	179.2	169.2	167.0	169.2	178.5	193.6
55°	306.8	265.2	223.6	185.0	155.6	138.3	130.5	128.4	130.5	139.1	154.8
57.5°	254.5	218.6	182.1	147.0	121.9	106.8	99.7	96.7	101.8	107.5	126.2
60°	205.7	177.1	146.3	115.5	94.6	81.0	75.2	74.5	76.0	83.2	96.1
62.5°	161.3	137.7	113.2	88.2	71.0	65.2	58.1	57.4	58.7	63.1	73.1
65°	116.1	101.1	82.4	64.6	50.9	43.0	40.1	40.9	42.3	45.2	54.5
67.5°	81.0	70.3	57.4	45.2	35.1	31.5	28.7	27.9	28.7	33.7	38.7
70°	54.5	48.0	38.7	34.4	24.3	19.4	20.1	17.9	20.7	20.7	25.1
72.5°	35.9	31.5	25.8	20.1	17.2	13.7	13.7	12.9	14.3	15.0	18.6
75°	18.6	14.3	14.3	10.1	7.2	3.6	6.5	5.7	5.0	5.7	7.2
77.5°	12.9	10.8	10.1	7.8	7.2	5.7	5.7	5.7	5.7	6.5	7.2
80°	7.8	7.8	5.7	5.0	4.3	3.6	4.3	4.3	4.3	4.3	5.0
82.5°	5.0	4.3	4.3	3.6	3.6	2.9	2.9	2.9	2.9	2.9	4.3
85°	4.3	2.9	2.9	2.1	2.9	5.0	2.1	2.9	2.9	2.9	2.1
87.5°	1.5	2.1	2.1	2.1	1.5	0.7	1.5	2.1	2.1	3.6	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°	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1337.7	1338.4	1338.4	1337.7	1337.7	1336.2	1339.1	1336.9	1337.7	1340.5	1338.4
5°	1339.1	1339.8	1339.8	1339.1	1339.1	1339.1	1339.8	1339.8	1339.1	1338.4	1339.8
7.5°	1341.9	1341.3	1341.3	1339.8	1339.8	1338.4	1339.8	1337.7	1339.1	1337.7	1339.8
10°	1338.4	1339.1	1338.4	1337.7	1337.7	1336.9	1336.9	1334.8	1335.6	1333.3	1334.8
12.5°	1336.2	1335.6	1335.6	1334.1	1332.6	1331.2	1330.5	1328.4	1328.4	1323.3	1325.5
15°	1330.5	1331.2	1329.1	1326.3	1324.8	1321.2	1319.8	1316.8	1314.0	1310.4	1311.1
17.5°	1325.5	1323.3	1320.4	1317.6	1311.9	1309.0	1306.1	1301.8	1300.4	1296.1	1294.6
20°	1310.4	1309.0	1305.4	1300.4	1296.8	1290.4	1287.5	1283.2	1279.6	1275.2	1273.1
22.5°	1291.1	1289.6	1285.3	1280.3	1274.6	1271.8	1268.9	1261.0	1257.4	1253.1	1252.4
25°	1266.7	1264.6	1260.2	1254.5	1251.6	1243.7	1240.8	1235.1	1233.8	1229.4	1228.7
27.5°	1229.4	1226.6	1221.6	1214.4	1209.3	1204.3	1201.5	1197.1	1195.8	1191.4	1190.7
30°	1173.5	1169.9	1159.9	1157.0	1148.5	1143.4	1143.4	1137.7	1138.4	1135.6	1135.6
32.5°	1085.4	1079.6	1071.7	1066.0	1060.2	1057.3	1057.3	1055.2	1056.7	1056.7	1058.1
35°	968.4	960.6	956.3	952.7	952.7	955.5	964.2	966.3	970.7	974.3	977.1
37.5°	818.7	818.0	822.9	827.3	838.1	850.2	865.3	878.2	890.3	898.9	907.6
40°	656.7	674.6	688.9	709.0	725.5	749.2	776.4	798.6	819.3	834.5	850.2
42.5°	512.5	535.5	565.7	595.0	624.4	656.7	692.6	723.3	750.5	771.4	787.8
45°	399.3	430.8	467.5	504.7	542.7	582.8	620.1	651.6	680.3	701.9	718.3
47.5°	321.8	356.3	397.8	438.8	481.7	524.1	565.7	592.9	616.6	633.7	648.7
50°	265.9	302.6	346.3	392.8	435.8	478.1	514.0	540.5	559.8	575.0	584.3
52.5°	222.2	261.0	307.5	354.1	397.2	435.8	468.1	488.2	504.0	514.8	523.3
55°	183.5	220.8	264.6	308.3	350.5	387.1	413.6	428.7	440.9	447.3	452.3
57.5°	149.9	184.2	224.4	264.6	301.1	331.3	352.0	367.0	372.7	377.8	377.1
60°	117.6	149.9	186.4	220.8	252.3	276.7	291.8	300.3	304.7	306.8	305.4
62.5°	92.5	121.9	149.9	179.9	202.9	223.6	238.0	238.0	240.1	240.9	243.0
65°	68.8	91.0	115.5	137.7	156.3	169.9	177.8	179.9	182.8	182.1	180.7
67.5°	50.9	67.4	85.3	101.8	114.7	123.3	129.0	134.1	133.4	131.9	131.2
70°	35.1	45.8	61.7	71.7	81.0	89.6	91.0	91.8	92.5	93.2	91.8
72.5°	24.3	32.3	40.9	49.4	55.2	58.7	62.3	63.1	63.1	63.1	62.3
75°	12.2	16.5	24.3	27.9	33.0	34.4	37.3	37.3	39.5	36.5	35.9
77.5°	10.8	12.9	17.2	20.1	22.2	24.3	25.1	27.2	26.6	25.1	25.8
80°	6.5	7.8	10.8	12.2	15.0	15.8	16.5	17.2	16.5	17.2	17.2
82.5°	5.0	5.7	7.2	7.2	9.3	9.3	10.1	10.1	10.8	10.8	10.8
85°	2.9	5.0	4.3	8.6	5.7	5.7	7.2	8.6	7.2	7.2	8.6
87.5°	2.9	2.9	2.1	2.9	2.9	2.9	3.6	4.3	4.3	5.0	4.3
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 EC8B30930 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1335.6	1335.6	1335.6	1335.6
2.5°	1337.7	1339.1	1336.9	1336.2
5°	1339.8	1339.8	1338.4	1338.4
7.5°	1339.8	1339.8	1337.7	1336.2
10°	1334.1	1334.1	1332.0	1330.5
12.5°	1323.3	1323.3	1322.6	1320.4
15°	1309.7	1309.7	1306.9	1304.7
17.5°	1291.1	1292.5	1288.9	1288.9
20°	1271.0	1270.3	1267.4	1265.9
22.5°	1250.3	1248.8	1248.0	1243.7
25°	1227.9	1226.6	1224.4	1222.2
27.5°	1190.1	1189.3	1187.1	1184.2
30°	1131.9	1131.2	1128.4	1128.4
32.5°	1056.7	1056.0	1053.1	1053.9
35°	978.5	981.4	980.0	977.1
37.5°	913.3	915.4	916.9	915.4
40°	858.8	865.3	866.0	867.4
42.5°	800.7	809.4	812.2	813.6
45°	731.2	739.1	745.6	744.1
47.5°	660.3	666.0	671.7	667.4
50°	592.1	595.7	597.8	597.8
52.5°	527.7	527.7	526.9	527.7
55°	453.8	453.8	450.9	452.3
57.5°	376.3	377.8	375.6	372.1
60°	304.7	301.1	299.6	297.5
62.5°	237.3	237.3	232.3	238.7
65°	177.8	175.7	173.5	172.7
67.5°	129.0	128.4	126.2	125.4
70°	91.0	88.2	87.4	86.0
72.5°	61.0	61.0	59.5	59.5
75°	37.3	33.7	33.0	33.7
77.5°	25.8	25.1	25.1	24.3
80°	17.2	16.5	17.9	15.8
82.5°	10.8	11.4	10.8	11.4
85°	7.2	8.6	7.8	7.8
87.5°	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)