

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: P246081

Luminaire Tested: **LSR8B30D010 EC8B30940 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246081
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 EC8B30940 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2730.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

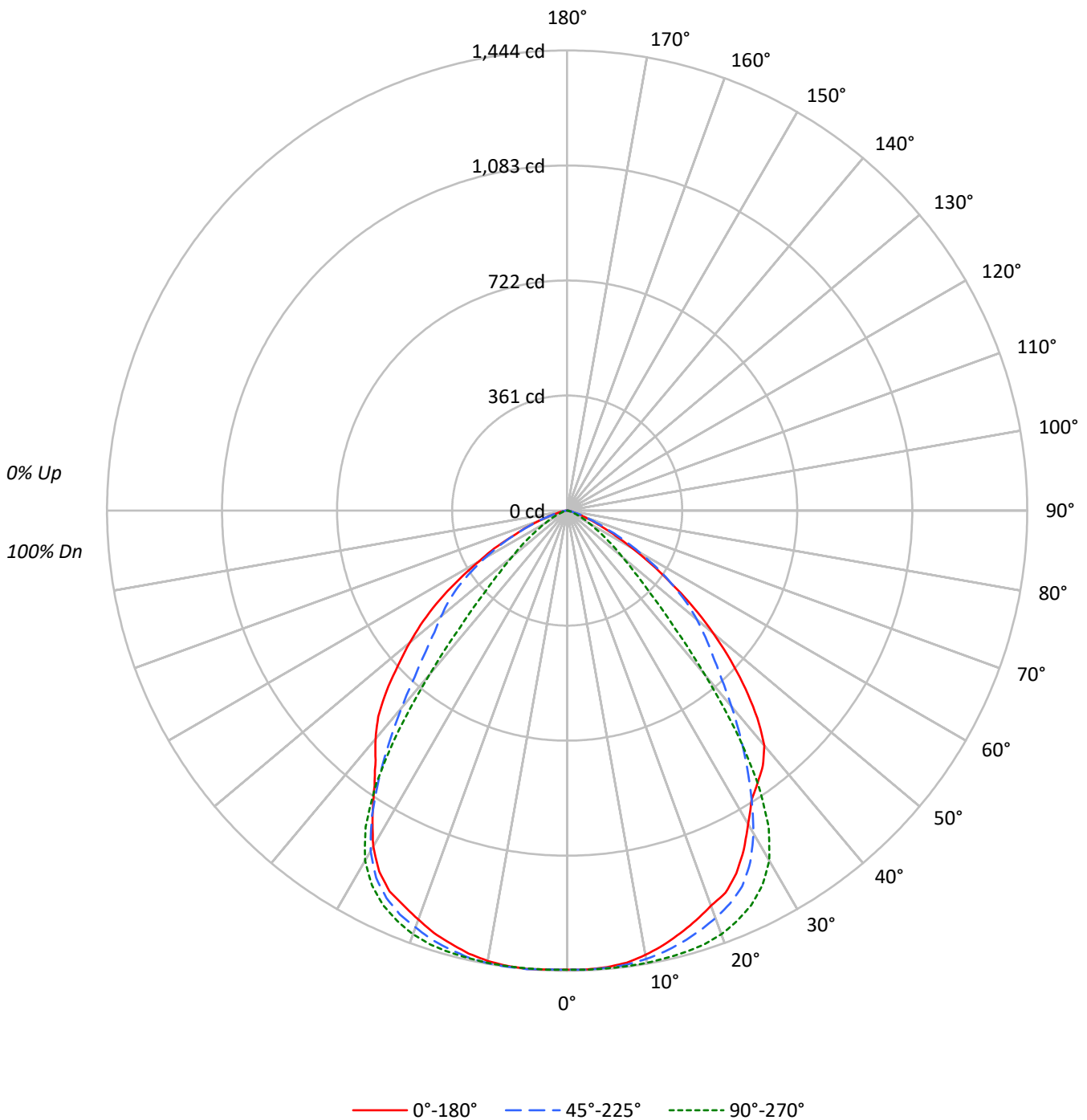
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	51	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°	44417	44417	44417
5°	44515	44636	44682
10°	44328	45127	44933
15°	43835	45786	44924
20°	43310	46430	44806
25°	42748	46484	44851
30°	40442	45178	43333
35°	39233	39263	39669
40°	38748	27014	37658
45°	34525	16218	34996
50°	28707	10794	30933
55°	21531	7441	26230
60°	14592	4958	19791
65°	8800	3218	13593
70°	4878	1740	8367
75°	2216	739	4325
80°	1918	817	3019
85°	2194	1097	3007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	5.0
10°-20°	399.2	14.6
20°-30°	605.9	22.2
30°-40°	636.4	23.3
40°-50°	477.1	17.5
50°-60°	306.1	11.2
60°-70°	131.0	4.8
70°-80°	30.9	1.1
80°-90°	5.8	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°	1142.6	41.9
0°-40°	1779.1	65.2
0°-60°	2562.3	93.9
0°-90°	2730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2730.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1440	1440	1440	1440	1440	
5°	1438	1440	1442	1444	1444	137
15°	1373	1402	1434	1425	1407	387
25°	1256	1300	1366	1341	1318	574
35°	1042	984	1043	1031	1054	654
45°	792	647	372	629	802	606
55°	400	400	138	418	488	363
65°	121	142	44	183	186	129
75°	19	22	6	37	36	27
85°	6	4	3	6	8	7
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°	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4
2.5°	1441.2	1442.7	1442.0	1442.0	1441.2	1442.0	1442.0	1443.5	1443.5	1442.0	1441.2
5°	1438.1	1439.6	1439.6	1438.1	1438.1	1442.0	1439.6	1441.2	1441.2	1440.4	1440.4
7.5°	1431.1	1431.1	1434.2	1431.9	1431.9	1434.2	1433.4	1435.0	1436.5	1437.3	1437.3
10°	1415.7	1417.2	1418.0	1418.0	1418.8	1421.1	1422.6	1425.7	1427.3	1428.8	1429.6
12.5°	1396.3	1398.6	1399.4	1398.6	1401.0	1404.1	1407.9	1411.8	1414.1	1417.2	1419.5
15°	1373.1	1373.1	1374.7	1377.0	1378.6	1383.2	1387.1	1391.7	1397.9	1401.8	1405.6
17.5°	1347.6	1349.2	1351.5	1351.5	1354.6	1362.3	1364.6	1371.6	1378.6	1382.4	1390.2
20°	1319.8	1321.3	1323.7	1325.2	1329.1	1335.3	1339.9	1346.1	1353.8	1360.8	1368.5
22.5°	1298.1	1295.1	1296.6	1298.1	1302.0	1307.4	1312.8	1320.6	1328.3	1335.3	1343.0
25°	1256.4	1257.2	1259.5	1261.0	1265.7	1270.3	1276.5	1285.8	1292.7	1300.5	1309.0
27.5°	1200.0	1200.7	1204.6	1204.6	1208.4	1216.2	1220.0	1227.8	1237.1	1244.8	1254.9
30°	1135.8	1137.3	1137.3	1140.4	1142.7	1146.6	1150.5	1158.2	1162.8	1169.8	1183.7
32.5°	1077.0	1078.6	1077.8	1077.0	1074.7	1073.9	1073.1	1074.7	1076.2	1078.6	1084.0
35°	1042.2	1038.4	1035.3	1029.9	1023.7	1015.9	1009.0	999.7	991.2	984.2	976.5
37.5°	1009.0	1008.2	1003.6	995.8	983.5	969.6	953.3	933.2	913.1	891.5	870.6
40°	962.6	960.3	956.4	945.6	931.7	914.7	893.0	868.3	835.8	802.5	768.5
42.5°	883.7	884.5	879.9	871.3	858.2	842.0	819.5	792.5	757.7	718.3	674.2
45°	791.7	791.7	790.2	783.2	773.9	760.8	743.8	721.4	687.3	647.1	600.0
47.5°	695.8	696.6	694.3	692.8	688.9	680.4	668.0	651.0	627.0	588.4	541.2
50°	598.4	598.4	602.3	601.5	601.5	598.4	593.0	583.0	562.1	531.2	487.1
52.5°	501.0	502.6	504.9	508.0	511.8	518.0	511.8	507.2	494.0	470.1	432.2
55°	400.5	402.0	405.9	411.3	416.0	422.2	423.7	423.7	416.7	400.5	371.9
57.5°	314.7	312.4	315.5	320.1	326.3	332.5	337.1	342.5	341.7	330.9	307.7
60°	236.6	237.4	239.7	244.3	249.0	254.4	260.6	265.2	267.5	262.1	247.4
62.5°	172.4	172.4	175.5	180.1	182.5	190.2	194.1	196.4	198.7	197.9	188.7
65°	120.6	122.2	123.7	126.0	128.3	133.0	135.3	139.9	141.5	142.3	135.3
67.5°	85.1	82.7	84.3	85.8	88.1	91.2	95.9	95.9	98.2	98.2	93.5
70°	54.1	54.1	54.9	57.2	58.8	59.5	61.1	62.6	64.9	64.2	64.2
72.5°	36.3	35.6	36.3	37.1	37.9	40.2	40.2	41.0	42.5	43.3	40.2
75°	18.6	19.3	20.9	20.1	22.4	20.9	21.6	24.0	23.2	21.6	21.6
77.5°	15.5	15.5	15.5	14.7	16.2	16.2	15.5	17.0	16.2	16.2	15.5
80°	10.8	11.6	10.8	10.0	10.8	10.0	10.0	10.0	10.0	10.0	9.3
82.5°	8.5	7.0	7.7	7.0	7.7	7.7	7.0	6.2	6.2	7.0	6.2
85°	6.2	4.6	5.4	5.4	4.6	4.6	4.6	4.6	4.6	3.9	3.9
87.5°	3.9	2.3	2.3	2.3	3.1	3.1	3.1	2.3	3.1	3.1	1.6
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°	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4
2.5°	1442.7	1442.0	1443.5	1442.7	1442.7	1442.0	1442.7	1442.0	1443.5	1440.4	1441.2
5°	1442.7	1441.2	1442.0	1442.7	1443.5	1442.0	1442.0	1442.0	1443.5	1442.0	1442.7
7.5°	1439.6	1438.9	1441.2	1442.7	1442.0	1441.2	1442.7	1442.0	1443.5	1442.7	1444.3
10°	1433.4	1434.2	1435.8	1438.1	1438.9	1439.6	1441.2	1441.2	1443.5	1440.4	1442.0
12.5°	1424.2	1427.3	1431.1	1432.7	1435.8	1435.8	1437.3	1438.1	1439.6	1438.9	1441.2
15°	1412.6	1416.4	1421.1	1424.9	1428.8	1431.1	1433.4	1434.2	1436.5	1434.2	1435.0
17.5°	1398.6	1403.3	1410.2	1414.9	1421.1	1423.4	1426.5	1428.0	1430.4	1428.8	1429.6
20°	1379.3	1384.7	1392.5	1399.4	1403.3	1408.7	1412.6	1414.9	1416.4	1414.9	1415.7
22.5°	1352.3	1360.0	1370.0	1375.5	1383.2	1387.8	1388.6	1394.0	1397.9	1394.0	1395.6
25°	1320.6	1328.3	1336.0	1347.6	1354.6	1360.0	1365.4	1366.2	1370.0	1369.3	1368.5
27.5°	1268.0	1278.0	1291.2	1300.5	1309.7	1318.2	1324.4	1326.0	1329.8	1328.3	1329.1
30°	1196.1	1206.9	1219.3	1234.0	1247.1	1255.6	1263.3	1268.8	1272.6	1270.3	1269.5
32.5°	1094.0	1104.9	1118.0	1132.7	1148.2	1160.5	1169.8	1176.8	1181.4	1179.8	1176.0
35°	977.3	980.4	988.9	1000.5	1013.6	1026.8	1035.3	1043.0	1048.4	1050.0	1050.0
37.5°	857.4	847.4	841.2	841.2	848.9	854.3	862.1	866.7	875.2	878.3	880.6
40°	741.5	718.3	696.6	680.4	669.6	668.8	668.8	671.1	678.8	688.9	698.2
42.5°	637.9	600.7	567.5	537.3	515.7	503.3	497.9	498.7	504.9	514.2	529.6
45°	555.1	508.7	467.0	430.7	401.3	381.9	372.7	371.9	376.5	387.3	404.4
47.5°	491.0	441.5	394.3	352.6	320.9	300.0	289.2	286.1	289.2	299.2	319.3
50°	437.6	386.6	337.9	294.6	260.6	238.9	228.9	225.0	228.9	237.4	257.5
52.5°	388.1	335.5	289.9	248.2	211.8	193.3	182.5	180.1	182.5	192.5	208.8
55°	330.9	286.1	241.2	199.5	167.8	149.2	140.7	138.4	140.7	150.0	167.0
57.5°	274.5	235.8	196.4	158.5	131.4	115.2	107.5	104.4	109.8	116.0	136.1
60°	221.9	191.0	157.7	124.5	102.1	87.4	81.2	80.4	82.0	89.7	103.6
62.5°	174.0	148.4	122.2	95.1	76.5	70.4	62.6	61.9	63.4	68.0	78.9
65°	125.3	109.0	88.9	69.6	54.9	46.4	43.3	44.1	45.6	48.7	58.8
67.5°	87.4	75.8	61.9	48.7	37.9	34.0	30.9	30.2	30.9	36.3	41.8
70°	58.8	51.8	41.8	37.1	26.3	20.9	21.6	19.3	22.4	22.4	27.1
72.5°	38.6	34.0	27.8	21.6	18.6	14.7	14.7	13.9	15.5	16.2	20.1
75°	20.1	15.5	15.5	10.8	7.7	3.9	7.0	6.2	5.4	6.2	7.7
77.5°	13.9	11.6	10.8	8.5	7.7	6.2	6.2	6.2	6.2	7.0	7.7
80°	8.5	8.5	6.2	5.4	4.6	3.9	4.6	4.6	4.6	4.6	5.4
82.5°	5.4	4.6	4.6	3.9	3.9	3.1	3.1	3.1	3.1	3.1	4.6
85°	4.6	3.1	3.1	2.3	3.1	5.4	2.3	3.1	3.1	3.1	2.3
87.5°	1.6	2.3	2.3	2.3	1.6	0.8	1.6	2.3	2.3	3.9	3.1
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°	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4	1440.4
2.5°	1442.7	1443.5	1443.5	1442.7	1442.7	1441.2	1444.3	1442.0	1442.7	1445.8	1443.5
5°	1444.3	1445.0	1445.0	1444.3	1444.3	1444.3	1445.0	1445.0	1444.3	1443.5	1445.0
7.5°	1447.4	1446.6	1446.6	1445.0	1445.0	1443.5	1445.0	1442.7	1444.3	1442.7	1445.0
10°	1443.5	1444.3	1443.5	1442.7	1442.7	1442.0	1442.0	1439.6	1440.4	1438.1	1439.6
12.5°	1441.2	1440.4	1440.4	1438.9	1437.3	1435.8	1435.0	1432.7	1432.7	1427.3	1429.6
15°	1435.0	1435.8	1433.4	1430.4	1428.8	1424.9	1423.4	1420.3	1417.2	1413.3	1414.1
17.5°	1429.6	1427.3	1424.2	1421.1	1414.9	1411.8	1408.7	1404.1	1402.5	1397.9	1396.3
20°	1413.3	1411.8	1407.9	1402.5	1398.6	1391.7	1388.6	1384.0	1380.1	1375.5	1373.1
22.5°	1392.5	1390.9	1386.3	1380.9	1374.7	1371.6	1368.5	1360.0	1356.1	1351.5	1350.7
25°	1366.2	1363.9	1359.2	1353.0	1349.9	1341.4	1338.3	1332.2	1330.6	1326.0	1325.2
27.5°	1326.0	1322.9	1317.5	1309.7	1304.3	1298.9	1295.8	1291.2	1289.6	1285.0	1284.2
30°	1265.7	1261.8	1251.0	1247.9	1238.6	1233.2	1233.2	1227.0	1227.8	1224.7	1224.7
32.5°	1170.6	1164.4	1155.9	1149.7	1143.5	1140.4	1140.4	1138.1	1139.6	1139.6	1141.2
35°	1044.5	1036.0	1031.4	1027.5	1027.5	1030.6	1039.9	1042.2	1046.9	1050.7	1053.8
37.5°	882.9	882.2	887.6	892.2	903.8	917.0	933.2	947.1	960.3	969.6	978.8
40°	708.2	727.6	743.0	764.7	782.4	808.0	837.3	861.3	883.7	900.0	917.0
42.5°	552.8	577.5	610.0	641.7	673.4	708.2	746.9	780.1	809.5	831.9	849.7
45°	430.7	464.7	504.1	544.3	585.3	628.6	668.8	702.8	733.7	756.9	774.7
47.5°	347.1	384.3	429.1	473.2	519.6	565.2	610.0	639.4	664.9	683.5	699.7
50°	286.8	326.3	373.4	423.7	470.1	515.7	554.4	583.0	603.8	620.1	630.1
52.5°	239.7	281.4	331.7	381.9	428.3	470.1	504.9	526.5	543.5	555.1	564.4
55°	197.9	238.1	285.3	332.5	378.1	417.5	446.1	462.4	475.5	482.4	487.9
57.5°	161.6	198.7	242.0	285.3	324.7	357.2	379.6	395.9	402.0	407.5	406.7
60°	126.8	161.6	201.0	238.1	272.2	298.4	314.7	324.0	328.6	330.9	329.4
62.5°	99.7	131.4	161.6	194.1	218.8	241.2	256.7	256.7	259.0	259.8	262.1
65°	74.2	98.2	124.5	148.4	168.5	183.2	191.8	194.1	197.2	196.4	194.8
67.5°	54.9	72.7	92.0	109.8	123.7	133.0	139.2	144.6	143.8	142.3	141.5
70°	37.9	49.5	66.5	77.3	87.4	96.7	98.2	99.0	99.7	100.5	99.0
72.5°	26.3	34.8	44.1	53.3	59.5	63.4	67.3	68.0	68.0	68.0	67.3
75°	13.1	17.8	26.3	30.2	35.6	37.1	40.2	40.2	42.5	39.4	38.6
77.5°	11.6	13.9	18.6	21.6	24.0	26.3	27.1	29.4	28.6	27.1	27.8
80°	7.0	8.5	11.6	13.1	16.2	17.0	17.8	18.6	17.8	18.6	18.6
82.5°	5.4	6.2	7.7	7.7	10.0	10.0	10.8	10.8	11.6	11.6	11.6
85°	3.1	5.4	4.6	9.3	6.2	6.2	7.7	9.3	7.7	7.7	9.3
87.5°	3.1	3.1	2.3	3.1	3.1	3.1	3.9	4.6	4.6	5.4	4.6
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: P246081

CATALOG NUMBER: LSR8B30D010 EC8B30940 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1440.4	1440.4	1440.4	1440.4
2.5°	1442.7	1444.3	1442.0	1441.2
5°	1445.0	1445.0	1443.5	1443.5
7.5°	1445.0	1445.0	1442.7	1441.2
10°	1438.9	1438.9	1436.5	1435.0
12.5°	1427.3	1427.3	1426.5	1424.2
15°	1412.6	1412.6	1409.5	1407.2
17.5°	1392.5	1394.0	1390.2	1390.2
20°	1370.8	1370.0	1367.0	1365.4
22.5°	1348.4	1346.9	1346.1	1341.4
25°	1324.4	1322.9	1320.6	1318.2
27.5°	1283.5	1282.7	1280.4	1277.3
30°	1220.8	1220.0	1217.0	1217.0
32.5°	1139.6	1138.9	1135.8	1136.6
35°	1055.4	1058.5	1056.9	1053.8
37.5°	985.0	987.3	988.9	987.3
40°	926.2	933.2	934.0	935.5
42.5°	863.6	872.9	876.0	877.5
45°	788.6	797.1	804.1	802.5
47.5°	712.1	718.3	724.4	719.8
50°	638.6	642.5	644.8	644.8
52.5°	569.1	569.1	568.3	569.1
55°	489.4	489.4	486.3	487.9
57.5°	405.9	407.5	405.1	401.3
60°	328.6	324.7	323.2	320.9
62.5°	255.9	255.9	250.5	257.5
65°	191.8	189.4	187.1	186.3
67.5°	139.2	138.4	136.1	135.3
70°	98.2	95.1	94.3	92.8
72.5°	65.7	65.7	64.2	64.2
75°	40.2	36.3	35.6	36.3
77.5°	27.8	27.1	27.1	26.3
80°	18.6	17.8	19.3	17.0
82.5°	11.6	12.4	11.6	12.4
85°	7.7	9.3	8.5	8.5
87.5°	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)