

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: P246159

Luminaire Tested: **LSR8B30D010 EC8B30950 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246159
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 EC8B30950 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

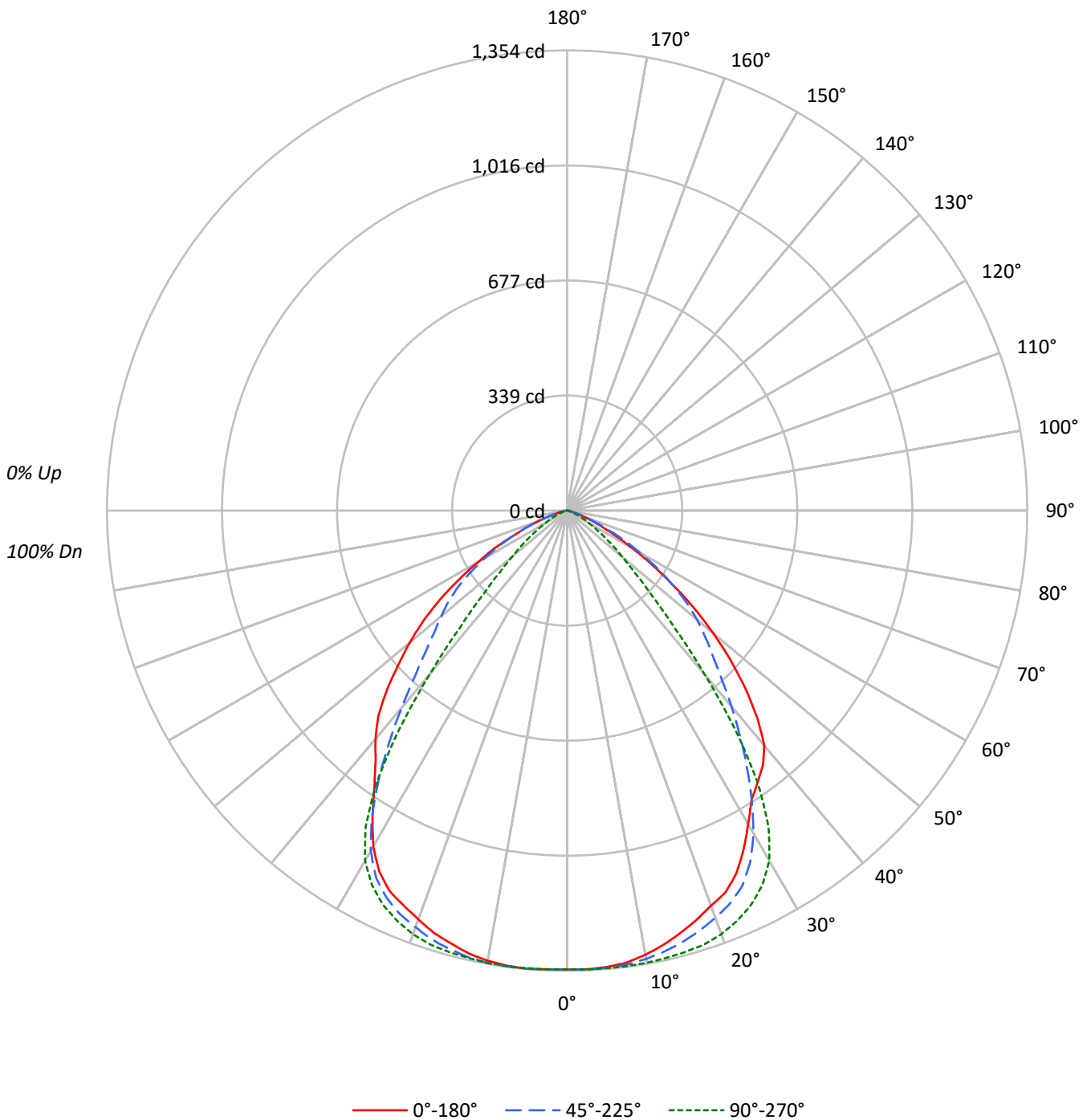
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	41635	41635	41635
5°	41726	41838	41884
10°	41551	42299	42118
15°	41090	42919	42108
20°	40596	43523	42000
25°	40070	43571	42044
30°	37907	42347	40617
35°	36778	36805	37185
40°	36321	25324	35299
45°	32362	15202	32807
50°	26913	10117	28995
55°	20182	6973	24585
60°	13679	4650	18551
65°	8252	3013	12747
70°	4571	1632	7844
75°	2073	691	4063
80°	1794	764	2824
85°	2052	1026	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	5.0
10°-20°	374.2	14.6
20°-30°	568.0	22.2
30°-40°	596.6	23.3
40°-50°	447.3	17.5
50°-60°	287.0	11.2
60°-70°	122.8	4.8
70°-80°	29.0	1.1
80°-90°	5.4	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°	1071.1	41.9
0°-40°	1667.6	65.2
0°-60°	2401.8	93.9
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1350	1350	1350	1350	1350	
5°	1348	1350	1352	1354	1353	128
15°	1287	1314	1344	1336	1319	363
25°	1178	1219	1281	1257	1236	538
35°	977	923	978	966	988	613
45°	742	607	349	589	752	568
55°	375	375	130	391	457	341
65°	113	133	41	172	175	121
75°	17	20	6	35	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°	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2
2.5°	1350.9	1352.4	1351.6	1351.6	1350.9	1351.6	1351.6	1353.1	1353.1	1351.6	1350.9
5°	1348.0	1349.5	1349.5	1348.0	1348.0	1351.6	1349.5	1350.9	1350.9	1350.2	1350.2
7.5°	1341.5	1341.5	1344.4	1342.2	1342.2	1344.4	1343.7	1345.1	1346.6	1347.3	1347.3
10°	1327.0	1328.4	1329.2	1329.2	1329.9	1332.1	1333.5	1336.4	1337.9	1339.3	1340.0
12.5°	1308.9	1311.0	1311.8	1311.0	1313.2	1316.1	1319.7	1323.4	1325.5	1328.4	1330.6
15°	1287.1	1287.1	1288.6	1290.8	1292.2	1296.6	1300.2	1304.5	1310.3	1313.9	1317.6
17.5°	1263.2	1264.7	1266.8	1266.8	1269.7	1277.0	1279.2	1285.7	1292.2	1295.8	1303.1
20°	1237.1	1238.6	1240.7	1242.2	1245.8	1251.6	1256.0	1261.8	1269.0	1275.5	1282.8
22.5°	1216.8	1213.9	1215.4	1216.8	1220.5	1225.5	1230.6	1237.8	1245.1	1251.6	1258.9
25°	1177.7	1178.4	1180.6	1182.0	1186.4	1190.7	1196.5	1205.2	1211.8	1219.0	1227.0
27.5°	1124.8	1125.5	1129.1	1129.1	1132.8	1140.0	1143.6	1150.9	1159.6	1166.8	1176.3
30°	1064.6	1066.1	1066.1	1069.0	1071.1	1074.8	1078.4	1085.7	1090.0	1096.5	1109.6
32.5°	1009.6	1011.0	1010.3	1009.6	1007.4	1006.7	1005.9	1007.4	1008.8	1011.0	1016.1
35°	977.0	973.3	970.4	965.4	959.6	952.3	945.8	937.1	929.1	922.6	915.3
37.5°	945.8	945.0	940.7	933.5	921.9	908.8	893.6	874.8	855.9	835.6	816.1
40°	902.3	900.1	896.5	886.4	873.3	857.4	837.1	813.9	783.4	752.3	720.4
42.5°	828.4	829.1	824.7	816.8	804.5	789.2	768.2	742.9	710.2	673.3	632.0
45°	742.1	742.1	740.7	734.1	725.5	713.1	697.2	676.2	644.3	606.6	562.4
47.5°	652.3	653.0	650.8	649.4	645.7	637.8	626.2	610.2	587.8	551.5	507.3
50°	561.0	561.0	564.6	563.8	563.8	561.0	555.9	546.4	526.9	497.9	456.6
52.5°	469.6	471.1	473.3	476.2	479.8	485.6	479.8	475.4	463.1	440.6	405.1
55°	375.4	376.9	380.5	385.6	389.9	395.7	397.2	397.2	390.6	375.4	348.6
57.5°	295.0	292.8	295.7	300.0	305.8	311.6	316.0	321.1	320.3	310.2	288.4
60°	221.8	222.5	224.7	229.0	233.4	238.4	244.2	248.6	250.8	245.7	231.9
62.5°	161.6	161.6	164.5	168.9	171.0	178.3	181.9	184.1	186.3	185.5	176.8
65°	113.1	114.5	116.0	118.1	120.3	124.6	126.8	131.2	132.6	133.4	126.8
67.5°	79.7	77.5	79.0	80.4	82.6	85.5	89.9	89.9	92.0	92.0	87.7
70°	50.7	50.7	51.5	53.6	55.1	55.8	57.3	58.7	60.9	60.2	60.2
72.5°	34.1	33.3	34.1	34.8	35.5	37.7	37.7	38.4	39.9	40.6	37.7
75°	17.4	18.1	19.6	18.8	21.0	19.6	20.3	22.5	21.7	20.3	20.3
77.5°	14.5	14.5	14.5	13.8	15.2	15.2	14.5	15.9	15.2	15.2	14.5
80°	10.1	10.9	10.1	9.4	10.1	9.4	9.4	9.4	9.4	9.4	8.7
82.5°	8.0	6.5	7.3	6.5	7.3	7.3	6.5	5.8	5.8	6.5	5.8
85°	5.8	4.3	5.1	5.1	4.3	4.3	4.3	4.3	4.3	3.6	3.6
87.5°	3.6	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2
2.5°	1352.4	1351.6	1353.1	1352.4	1352.4	1351.6	1352.4	1351.6	1353.1	1350.2	1350.9
5°	1352.4	1350.9	1351.6	1352.4	1353.1	1351.6	1351.6	1351.6	1353.1	1351.6	1352.4
7.5°	1349.5	1348.7	1350.9	1352.4	1351.6	1350.9	1352.4	1351.6	1353.1	1352.4	1353.8
10°	1343.7	1344.4	1345.8	1348.0	1348.7	1349.5	1350.9	1350.9	1353.1	1350.2	1351.6
12.5°	1335.0	1337.9	1341.5	1342.9	1345.8	1345.8	1347.3	1348.0	1349.5	1348.7	1350.9
15°	1324.1	1327.7	1332.1	1335.7	1339.3	1341.5	1343.7	1344.4	1346.6	1344.4	1345.1
17.5°	1311.0	1315.4	1321.9	1326.3	1332.1	1334.2	1337.1	1338.6	1340.8	1339.3	1340.0
20°	1292.9	1298.0	1305.2	1311.8	1315.4	1320.5	1324.1	1326.3	1327.7	1326.3	1327.0
22.5°	1267.6	1274.8	1284.2	1289.3	1296.6	1300.9	1301.6	1306.7	1310.3	1306.7	1308.2
25°	1237.8	1245.1	1252.3	1263.2	1269.7	1274.8	1279.9	1280.6	1284.2	1283.5	1282.8
27.5°	1188.6	1198.0	1210.3	1219.0	1227.7	1235.7	1241.5	1242.9	1246.5	1245.1	1245.8
30°	1121.2	1131.3	1142.9	1156.7	1169.0	1177.0	1184.2	1189.3	1192.9	1190.7	1190.0
32.5°	1025.5	1035.6	1048.0	1061.7	1076.2	1087.8	1096.5	1103.1	1107.4	1105.9	1102.3
35°	916.1	919.0	926.9	937.8	950.1	962.4	970.4	977.7	982.7	984.2	984.2
37.5°	803.7	794.3	788.5	788.5	795.8	800.8	808.1	812.4	820.4	823.3	825.5
40°	695.0	673.3	653.0	637.8	627.6	626.9	626.9	629.1	636.3	645.7	654.4
42.5°	597.9	563.1	532.0	503.7	483.4	471.8	466.7	467.5	473.3	481.9	496.4
45°	520.4	476.9	437.7	403.7	376.1	358.0	349.3	348.6	352.9	363.1	379.0
47.5°	460.2	413.8	369.6	330.5	300.8	281.2	271.1	268.2	271.1	280.5	299.3
50°	410.2	362.4	316.7	276.1	244.2	224.0	214.5	210.9	214.5	222.5	241.3
52.5°	363.8	314.5	271.8	232.6	198.6	181.2	171.0	168.9	171.0	180.5	195.7
55°	310.2	268.2	226.1	187.0	157.3	139.9	131.9	129.7	131.9	140.6	156.5
57.5°	257.3	221.0	184.1	148.6	123.2	108.0	100.7	97.8	102.9	108.7	127.6
60°	208.0	179.0	147.8	116.7	95.7	81.9	76.1	75.4	76.8	84.1	97.1
62.5°	163.1	139.2	114.5	89.1	71.7	65.9	58.7	58.0	59.4	63.8	73.9
65°	117.4	102.2	83.3	65.2	51.5	43.5	40.6	41.3	42.8	45.7	55.1
67.5°	81.9	71.0	58.0	45.7	35.5	31.9	29.0	28.3	29.0	34.1	39.1
70°	55.1	48.6	39.1	34.8	24.6	19.6	20.3	18.1	21.0	21.0	25.4
72.5°	36.2	31.9	26.1	20.3	17.4	13.8	13.8	13.1	14.5	15.2	18.8
75°	18.8	14.5	14.5	10.1	7.3	3.6	6.5	5.8	5.1	5.8	7.3
77.5°	13.1	10.9	10.1	8.0	7.3	5.8	5.8	5.8	5.8	6.5	7.3
80°	8.0	8.0	5.8	5.1	4.3	3.6	4.3	4.3	4.3	4.3	5.1
82.5°	5.1	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	2.2	2.9	5.1	2.2	2.9	2.9	2.9	2.2
87.5°	1.5	2.2	2.2	2.2	1.5	0.7	1.5	2.2	2.2	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°	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2
2.5°	1352.4	1353.1	1353.1	1352.4	1352.4	1350.9	1353.8	1351.6	1352.4	1355.3	1353.1
5°	1353.8	1354.5	1354.5	1353.8	1353.8	1353.8	1354.5	1354.5	1353.8	1353.1	1354.5
7.5°	1356.7	1356.0	1356.0	1354.5	1354.5	1353.1	1354.5	1352.4	1353.8	1352.4	1354.5
10°	1353.1	1353.8	1353.1	1352.4	1352.4	1351.6	1351.6	1349.5	1350.2	1348.0	1349.5
12.5°	1350.9	1350.2	1350.2	1348.7	1347.3	1345.8	1345.1	1342.9	1342.9	1337.9	1340.0
15°	1345.1	1345.8	1343.7	1340.8	1339.3	1335.7	1334.2	1331.3	1328.4	1324.8	1325.5
17.5°	1340.0	1337.9	1335.0	1332.1	1326.3	1323.4	1320.5	1316.1	1314.7	1310.3	1308.9
20°	1324.8	1323.4	1319.7	1314.7	1311.0	1304.5	1301.6	1297.3	1293.6	1289.3	1287.1
22.5°	1305.2	1303.8	1299.4	1294.4	1288.6	1285.7	1282.8	1274.8	1271.2	1266.8	1266.1
25°	1280.6	1278.4	1274.1	1268.3	1265.4	1257.4	1254.5	1248.7	1247.3	1242.9	1242.2
27.5°	1242.9	1240.0	1234.9	1227.7	1222.6	1217.6	1214.7	1210.3	1208.9	1204.5	1203.8
30°	1186.4	1182.8	1172.6	1169.7	1161.0	1155.9	1155.9	1150.1	1150.9	1148.0	1148.0
32.5°	1097.3	1091.5	1083.5	1077.7	1071.9	1069.0	1069.0	1066.8	1068.3	1068.3	1069.7
35°	979.1	971.2	966.8	963.2	963.2	966.1	974.8	977.0	981.3	984.9	987.8
37.5°	827.6	826.9	832.0	836.3	847.2	859.5	874.8	887.8	900.1	908.8	917.5
40°	663.9	682.0	696.5	716.8	733.4	757.3	784.9	807.4	828.4	843.6	859.5
42.5°	518.2	541.4	571.8	601.5	631.2	663.9	700.1	731.3	758.8	779.8	796.5
45°	403.7	435.6	472.5	510.2	548.6	589.2	626.9	658.8	687.8	709.5	726.2
47.5°	325.4	360.2	402.2	443.5	487.0	529.8	571.8	599.4	623.3	640.7	655.9
50°	268.9	305.8	350.1	397.2	440.6	483.4	519.6	546.4	566.0	581.2	590.7
52.5°	224.7	263.8	310.9	358.0	401.5	440.6	473.3	493.5	509.5	520.4	529.0
55°	185.5	223.2	267.4	311.6	354.4	391.4	418.2	433.4	445.7	452.2	457.3
57.5°	151.5	186.3	226.8	267.4	304.4	334.8	355.8	371.1	376.9	381.9	381.2
60°	118.9	151.5	188.4	223.2	255.1	279.7	295.0	303.7	308.0	310.2	308.7
62.5°	93.5	123.2	151.5	181.9	205.1	226.1	240.6	240.6	242.8	243.5	245.7
65°	69.6	92.0	116.7	139.2	158.0	171.8	179.7	181.9	184.8	184.1	182.6
67.5°	51.5	68.1	86.2	102.9	116.0	124.6	130.4	135.5	134.8	133.4	132.6
70°	35.5	46.4	62.3	72.5	81.9	90.6	92.0	92.8	93.5	94.2	92.8
72.5°	24.6	32.6	41.3	50.0	55.8	59.4	63.1	63.8	63.8	63.8	63.1
75°	12.3	16.7	24.6	28.3	33.3	34.8	37.7	37.7	39.9	37.0	36.2
77.5°	10.9	13.1	17.4	20.3	22.5	24.6	25.4	27.5	26.8	25.4	26.1
80°	6.5	8.0	10.9	12.3	15.2	15.9	16.7	17.4	16.7	17.4	17.4
82.5°	5.1	5.8	7.3	7.3	9.4	9.4	10.1	10.1	10.9	10.9	10.9
85°	2.9	5.1	4.3	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	3.6	4.3	4.3	5.1	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: P246159

CATALOG NUMBER: LSR8B30D010 EC8B30950 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1350.2	1350.2	1350.2	1350.2
2.5°	1352.4	1353.8	1351.6	1350.9
5°	1354.5	1354.5	1353.1	1353.1
7.5°	1354.5	1354.5	1352.4	1350.9
10°	1348.7	1348.7	1346.6	1345.1
12.5°	1337.9	1337.9	1337.1	1335.0
15°	1324.1	1324.1	1321.2	1319.0
17.5°	1305.2	1306.7	1303.1	1303.1
20°	1285.0	1284.2	1281.3	1279.9
22.5°	1263.9	1262.5	1261.8	1257.4
25°	1241.5	1240.0	1237.8	1235.7
27.5°	1203.1	1202.3	1200.2	1197.3
30°	1144.4	1143.6	1140.7	1140.7
32.5°	1068.3	1067.5	1064.6	1065.4
35°	989.3	992.2	990.7	987.8
37.5°	923.3	925.5	926.9	925.5
40°	868.2	874.8	875.5	876.9
42.5°	809.5	818.2	821.1	822.6
45°	739.2	747.2	753.7	752.3
47.5°	667.5	673.3	679.1	674.7
50°	598.6	602.3	604.4	604.4
52.5°	533.4	533.4	532.7	533.4
55°	458.8	458.8	455.9	457.3
57.5°	380.5	381.9	379.8	376.1
60°	308.0	304.4	302.9	300.8
62.5°	239.9	239.9	234.8	241.3
65°	179.7	177.6	175.4	174.7
67.5°	130.4	129.7	127.6	126.8
70°	92.0	89.1	88.4	87.0
72.5°	61.6	61.6	60.2	60.2
75°	37.7	34.1	33.3	34.1
77.5°	26.1	25.4	25.4	24.6
80°	17.4	16.7	18.1	15.9
82.5°	10.9	11.6	10.9	11.6
85°	7.3	8.7	8.0	8.0
87.5°	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)