

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: P245499

Luminaire Tested: **LSR8B30D010 EC8B30935 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B30935 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2695.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

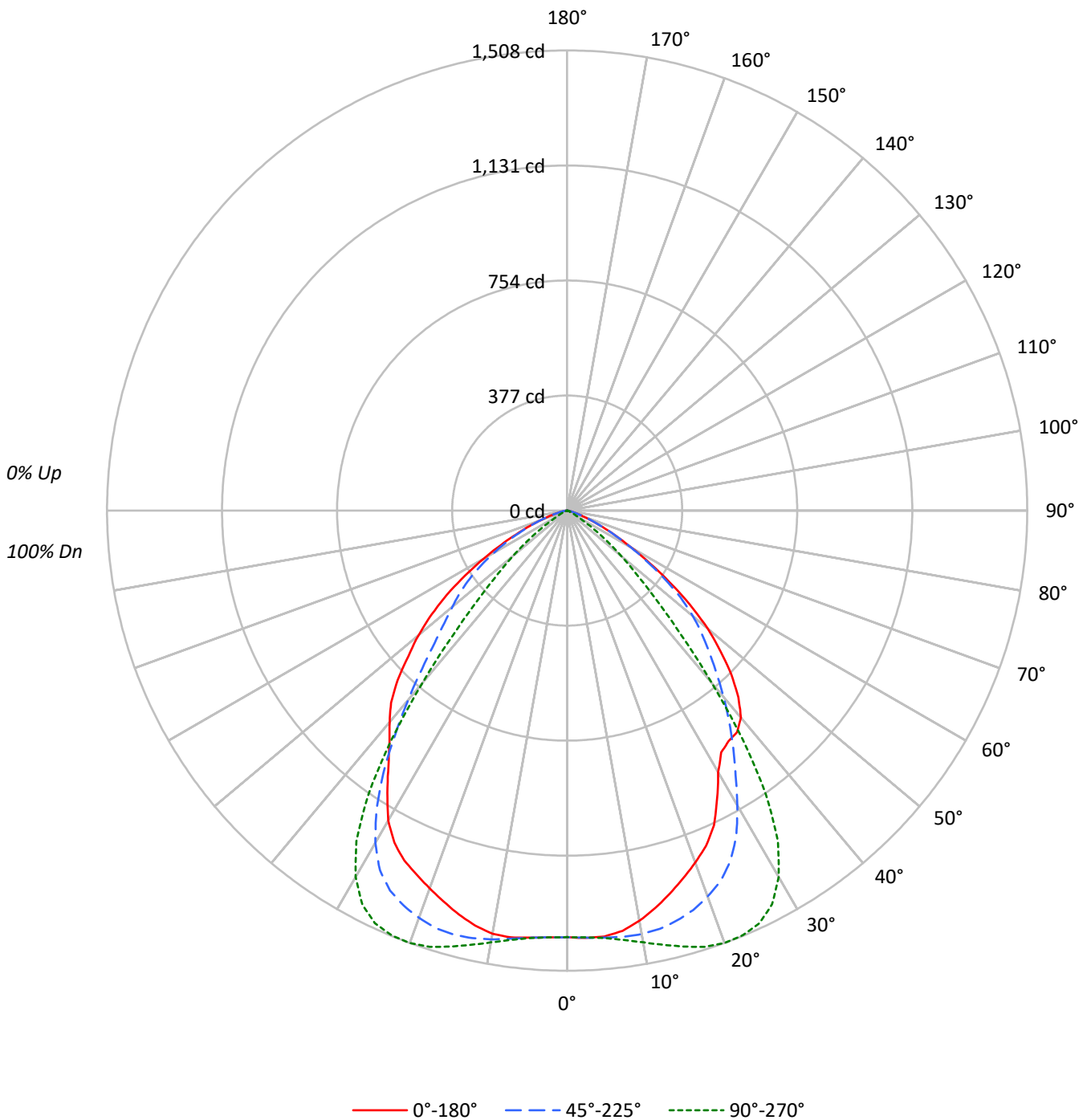
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43112	43112	43112
5°	43367	43528	43484
10°	42732	44986	44103
15°	41482	47216	43755
20°	40278	49482	43224
25°	38730	50750	43023
30°	35247	49358	41749
35°	34723	42768	38412
40°	35665	29663	36414
45°	33204	17928	34238
50°	28798	11072	30511
55°	22101	5785	25892
60°	15054	2331	19544
65°	9369	1189	13484
70°	5085	739	8232
75°	2657	357	4861
80°	1190	391	2628
85°	778	248	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	5.0
10°-20°	398.3	14.8
20°-30°	607.6	22.5
30°-40°	634.1	23.5
40°-50°	476.3	17.7
50°-60°	293.0	10.9
60°-70°	119.3	4.4
70°-80°	28.1	1.0
80°-90°	3.9	0.1
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°	1140.4	42.3
0°-40°	1774.5	65.8
0°-60°	2543.8	94.4
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1398	1398	1398	1398	1398	
5°	1401	1405	1406	1405	1405	133
15°	1299	1391	1479	1438	1371	366
25°	1138	1266	1492	1374	1264	518
35°	922	948	1136	1050	1020	582
45°	761	659	411	614	785	581
55°	411	390	108	390	482	370
65°	128	130	16	174	185	134
75°	22	22	3	39	41	27
85°	2	2	1	5	7	3
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°	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1
2.5°	1401.8	1399.6	1401.8	1401.8	1402.5	1401.0	1401.8	1402.5	1401.0	1401.0	1401.0
5°	1401.0	1399.6	1401.0	1400.3	1401.8	1401.8	1403.3	1403.3	1404.8	1404.8	1407.0
7.5°	1389.2	1386.2	1389.2	1391.4	1392.9	1395.9	1399.6	1402.5	1405.5	1408.5	1412.2
10°	1364.7	1364.7	1366.9	1371.4	1375.8	1381.0	1387.7	1395.1	1402.5	1409.2	1415.9
12.5°	1334.3	1332.0	1336.5	1342.4	1349.1	1357.3	1367.7	1378.8	1390.7	1404.0	1414.4
15°	1299.4	1297.2	1302.3	1308.3	1316.5	1328.3	1340.9	1355.8	1372.8	1390.7	1407.7
17.5°	1263.8	1263.0	1268.2	1276.4	1283.1	1295.7	1312.0	1329.8	1349.1	1372.8	1395.1
20°	1227.4	1226.7	1231.9	1238.5	1247.4	1259.3	1275.6	1296.4	1319.4	1346.1	1372.1
22.5°	1189.6	1190.3	1194.7	1202.2	1209.6	1222.2	1239.3	1260.1	1285.3	1314.2	1343.2
25°	1138.3	1134.6	1140.6	1148.0	1160.6	1171.0	1187.3	1209.6	1235.6	1266.0	1300.1
27.5°	1064.1	1063.4	1068.6	1075.3	1086.4	1099.0	1116.8	1139.8	1167.3	1200.7	1234.1
30°	989.9	991.4	993.6	1000.3	1007.7	1020.4	1038.2	1057.5	1083.4	1115.3	1151.0
32.5°	939.5	939.5	942.4	946.9	952.1	958.8	971.4	985.5	1005.5	1027.8	1053.8
35°	922.4	919.4	922.4	923.1	923.9	925.4	927.6	932.1	938.7	948.4	958.0
37.5°	915.0	912.8	912.8	909.8	906.1	901.6	895.7	889.0	881.6	871.9	864.5
40°	886.0	884.6	883.1	880.1	871.9	863.0	853.4	837.8	820.7	797.0	773.3
42.5°	830.4	828.9	828.2	822.2	814.8	804.4	793.3	777.0	755.4	725.0	690.9
45°	761.4	758.4	756.2	751.0	745.8	736.9	726.5	711.6	690.1	659.0	618.2
47.5°	681.2	679.7	679.0	676.8	671.6	666.4	659.7	647.8	628.5	598.9	556.6
50°	600.3	597.4	598.9	598.1	595.9	592.2	587.7	579.6	564.7	538.0	499.4
52.5°	507.6	507.6	506.8	509.1	509.8	509.1	509.8	500.9	488.3	468.2	435.6
55°	411.1	411.1	413.3	416.3	419.3	420.0	419.3	415.6	406.7	390.3	361.4
57.5°	320.6	319.1	323.5	328.0	331.0	333.9	331.7	328.7	323.5	310.2	287.9
60°	244.1	244.1	247.1	250.1	253.0	256.0	255.3	254.5	250.1	241.2	223.4
62.5°	179.6	180.3	180.3	182.6	185.5	188.5	190.7	188.5	186.3	180.3	168.4
65°	128.4	127.6	128.4	130.6	132.8	135.8	137.3	136.5	134.3	129.9	121.0
67.5°	86.1	85.3	88.3	89.0	90.5	93.5	92.8	93.5	92.8	89.0	81.6
70°	56.4	54.9	56.4	55.7	57.9	58.6	60.1	60.8	60.1	57.9	55.7
72.5°	34.9	34.1	34.9	35.6	36.4	37.1	38.6	38.6	37.8	36.4	33.4
75°	22.3	20.0	20.8	19.3	20.8	20.8	22.3	23.0	22.3	22.3	20.8
77.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	14.1	14.8	13.4	12.6
80°	6.7	6.7	7.4	7.4	7.4	8.2	7.4	7.4	7.4	8.2	5.9
82.5°	5.2	4.4	4.4	4.4	5.2	4.4	4.4	4.4	4.4	4.4	4.4
85°	2.2	3.0	2.2	1.5	2.2	2.2	3.0	2.2	2.2	2.2	3.0
87.5°	0.7	0.7	0.0	0.0	0.0	0.7	0.0	0.7	0.7	1.5	0.0
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°	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1
2.5°	1401.8	1400.3	1400.3	1399.6	1401.0	1399.6	1400.3	1399.6	1399.6	1401.0	1399.6
5°	1407.0	1407.7	1406.2	1405.5	1407.7	1407.7	1407.7	1406.2	1406.2	1407.0	1406.2
7.5°	1414.4	1415.9	1416.6	1417.4	1418.9	1419.6	1419.6	1418.9	1418.1	1420.3	1417.4
10°	1422.6	1424.8	1429.2	1431.5	1435.2	1435.2	1436.7	1436.7	1435.2	1436.7	1435.9
12.5°	1419.6	1433.0	1440.4	1445.6	1450.8	1455.2	1456.7	1457.4	1456.7	1459.7	1456.7
15°	1424.8	1435.9	1447.8	1456.7	1466.3	1471.5	1473.0	1479.0	1480.5	1481.2	1476.7
17.5°	1416.6	1436.7	1449.3	1462.6	1476.7	1486.4	1495.3	1499.0	1499.8	1501.2	1495.3
20°	1398.1	1420.3	1439.6	1458.9	1475.3	1490.1	1497.5	1507.9	1504.9	1510.9	1502.7
22.5°	1372.8	1398.1	1422.6	1447.8	1464.9	1482.7	1498.3	1505.7	1509.4	1509.4	1500.5
25°	1332.8	1362.5	1389.2	1415.1	1441.1	1462.6	1480.5	1491.6	1493.8	1493.1	1482.7
27.5°	1270.4	1302.3	1333.5	1363.2	1395.1	1420.3	1441.1	1454.5	1458.2	1458.2	1447.1
30°	1184.4	1218.5	1248.9	1284.5	1317.2	1345.4	1374.3	1386.2	1392.9	1392.9	1380.3
32.5°	1081.9	1110.9	1139.1	1174.0	1209.6	1241.5	1269.0	1285.3	1293.4	1292.7	1281.6
35°	970.6	984.7	1006.3	1032.2	1064.1	1093.8	1120.5	1136.1	1150.2	1149.5	1139.1
37.5°	859.3	855.6	857.8	867.5	887.5	908.3	929.1	943.9	955.8	961.0	958.8
40°	750.2	730.9	712.4	705.7	707.2	714.6	725.8	736.9	750.2	756.9	759.9
42.5°	652.3	619.6	587.0	562.5	548.4	543.9	549.1	552.8	561.0	570.7	580.3
45°	573.6	529.9	486.8	449.0	425.2	411.1	408.1	411.1	415.6	425.2	437.8
47.5°	509.1	457.9	409.6	367.3	332.4	313.9	308.7	307.2	311.7	320.6	337.6
50°	451.9	400.7	347.3	298.3	262.0	241.2	233.8	230.8	236.0	242.7	258.2
52.5°	389.6	339.1	284.2	236.7	198.9	177.4	169.2	164.7	167.7	176.6	192.2
55°	322.1	275.3	225.6	176.6	140.2	120.2	110.6	107.6	110.6	120.2	135.8
57.5°	254.5	215.2	173.6	127.6	95.0	75.0	65.3	62.3	70.5	74.2	90.5
60°	198.9	167.0	131.4	93.5	65.3	49.7	40.1	37.8	41.6	48.2	61.6
62.5°	149.2	129.1	100.9	66.8	48.2	31.9	26.7	24.5	26.7	31.9	42.3
65°	108.3	92.8	70.5	49.0	32.6	23.7	17.8	16.3	18.6	22.3	31.2
67.5°	74.2	62.3	49.0	34.1	22.3	14.8	12.6	12.6	13.4	16.3	23.0
70°	48.2	40.8	31.2	22.3	14.8	11.1	9.6	8.2	9.6	11.9	15.6
72.5°	30.4	26.0	20.0	15.6	11.1	8.2	6.7	5.9	7.4	8.9	11.9
75°	18.6	14.1	10.4	8.2	5.9	5.9	5.9	3.0	3.7	5.9	7.4
77.5°	11.1	9.6	8.2	6.7	5.2	3.0	3.0	3.0	3.7	4.4	6.7
80°	5.9	5.2	3.7	3.7	3.0	2.2	3.0	2.2	1.5	3.7	4.4
82.5°	3.7	3.0	3.0	3.0	3.7	1.5	2.2	1.5	2.2	3.0	2.2
85°	2.2	2.2	2.2	1.5	3.7	1.5	1.5	0.7	0.7	1.5	1.5
87.5°	0.0	0.7	0.7	0.0	0.7	0.0	0.7	0.7	0.7	0.7	0.7
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°	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1	1398.1
2.5°	1400.3	1399.6	1400.3	1399.6	1399.6	1399.6	1400.3	1400.3	1399.6	1399.6	1401.0
5°	1406.2	1406.2	1406.2	1405.5	1404.8	1404.8	1406.2	1406.2	1404.0	1406.2	1406.2
7.5°	1418.9	1416.6	1418.9	1415.9	1414.4	1415.1	1415.9	1414.4	1412.9	1413.7	1413.7
10°	1435.2	1433.0	1433.0	1430.7	1428.5	1427.0	1425.5	1421.8	1418.1	1417.4	1414.4
12.5°	1454.5	1450.8	1448.5	1444.1	1440.4	1435.2	1430.7	1424.8	1417.4	1412.2	1407.0
15°	1473.8	1467.8	1462.6	1455.2	1447.1	1438.1	1428.5	1418.9	1407.0	1396.6	1387.7
17.5°	1489.3	1481.2	1471.5	1459.7	1447.8	1434.4	1420.3	1406.2	1389.2	1375.8	1365.4
20°	1494.5	1482.7	1470.1	1454.5	1438.9	1420.3	1402.5	1384.0	1364.7	1350.6	1338.7
22.5°	1487.9	1473.8	1458.2	1441.9	1421.1	1401.0	1380.3	1358.7	1341.7	1322.4	1311.3
25°	1469.3	1452.3	1435.2	1415.9	1395.9	1373.6	1351.3	1329.1	1308.3	1297.9	1283.8
27.5°	1431.5	1412.9	1394.4	1374.3	1351.3	1329.1	1306.1	1284.5	1266.7	1252.6	1244.5
30°	1364.7	1343.2	1321.6	1300.1	1280.1	1257.1	1235.6	1217.7	1199.9	1188.8	1180.7
32.5°	1262.3	1243.0	1221.5	1200.7	1182.1	1162.8	1145.0	1129.4	1116.8	1109.4	1103.5
35°	1124.3	1105.0	1088.6	1073.8	1058.2	1050.0	1038.9	1030.0	1024.8	1021.8	1021.1
37.5°	950.6	939.5	934.3	931.3	928.3	926.1	927.6	931.3	934.3	939.5	945.4
40°	765.1	774.7	777.7	788.1	797.7	810.3	824.5	840.8	854.1	871.2	883.1
42.5°	595.9	613.7	634.5	656.7	680.5	703.5	731.7	757.7	781.4	802.9	821.5
45°	457.9	485.3	516.5	548.4	580.3	613.7	647.8	679.7	707.9	730.9	750.2
47.5°	356.9	387.4	427.4	466.8	505.4	544.7	582.5	615.9	639.7	661.9	679.0
50°	282.7	317.6	361.4	406.7	449.0	490.5	530.6	561.8	585.5	603.3	615.9
52.5°	218.9	260.5	305.0	352.5	397.8	443.0	480.1	509.1	528.4	543.9	553.6
55°	163.3	204.1	251.6	300.5	346.6	390.3	425.2	450.5	467.5	476.4	481.6
57.5°	118.0	155.1	202.6	251.6	293.1	334.7	362.9	385.9	395.5	400.7	403.0
60°	86.1	120.2	162.5	204.8	244.1	277.5	302.0	317.6	325.0	328.0	327.3
62.5°	63.1	92.8	129.1	164.7	196.6	224.1	243.4	253.8	257.5	259.0	256.8
65°	48.2	71.2	102.4	129.9	154.4	174.4	188.5	195.2	197.4	196.6	195.2
67.5°	35.6	53.4	76.4	97.2	115.0	130.6	138.0	144.0	145.4	143.2	141.0
70°	25.2	39.3	55.7	69.8	83.1	92.0	100.2	100.9	100.9	100.2	98.7
72.5°	17.8	27.5	37.8	47.5	55.7	62.3	65.3	67.5	66.8	66.0	64.6
75°	11.9	17.1	27.5	29.7	37.1	39.3	42.3	42.3	43.0	40.8	40.8
77.5°	7.4	11.9	16.3	19.3	22.3	25.2	26.7	26.7	27.5	26.7	26.7
80°	4.4	7.4	8.9	13.4	13.4	15.6	16.3	17.1	15.6	17.8	15.6
82.5°	3.0	4.4	6.7	6.7	8.2	9.6	9.6	10.4	10.4	9.6	9.6
85°	2.2	3.0	3.7	4.4	4.4	5.2	4.4	4.4	5.2	5.9	5.2
87.5°	0.7	1.5	0.7	1.5	1.5	3.0	2.2	2.2	2.2	3.0	3.0
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: P245499

CATALOG NUMBER: LSR8B30D010 EC8B30935 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1398.1	1398.1	1398.1	1398.1
2.5°	1399.6	1400.3	1399.6	1399.6
5°	1406.2	1405.5	1406.2	1404.8
7.5°	1411.4	1411.4	1410.7	1410.7
10°	1411.4	1408.5	1408.5	1408.5
12.5°	1400.3	1396.6	1394.4	1392.9
15°	1381.0	1374.3	1371.4	1370.6
17.5°	1355.8	1349.8	1346.1	1343.9
20°	1326.8	1320.9	1316.5	1317.2
22.5°	1301.6	1294.9	1292.0	1290.5
25°	1276.4	1268.2	1266.0	1264.5
27.5°	1235.6	1231.1	1228.9	1226.7
30°	1173.2	1171.0	1167.3	1172.5
32.5°	1101.3	1097.5	1094.6	1096.8
35°	1021.8	1019.6	1021.8	1020.4
37.5°	949.1	951.3	954.3	955.8
40°	892.0	900.1	903.1	904.6
42.5°	834.8	844.5	850.4	854.1
45°	764.3	774.0	780.7	785.1
47.5°	691.6	699.8	706.5	705.7
50°	625.6	630.0	633.0	636.0
52.5°	558.8	558.8	559.5	559.5
55°	483.1	481.6	480.9	481.6
57.5°	400.0	398.5	397.8	395.5
60°	324.3	319.8	316.9	316.9
62.5°	253.8	248.6	246.4	245.6
65°	190.7	190.0	185.5	184.8
67.5°	138.0	135.1	132.1	132.8
70°	97.2	92.8	92.8	91.3
72.5°	63.1	60.8	60.1	60.1
75°	39.3	39.3	37.8	40.8
77.5°	26.0	26.0	25.2	26.0
80°	15.6	15.6	15.6	14.8
82.5°	9.6	10.4	9.6	9.6
85°	5.2	5.9	4.4	6.7
87.5°	3.0	3.7	3.0	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)