

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P273728

Luminaire Tested: **8RCG-4-34D-L935-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P273728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RCG-4-34D-L935-A
Description: RCG SERIES DIRECT RECESSED LED LUMINAIRE WITH ASYMMETRIC FLUSH LENS
Light Source: (168) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

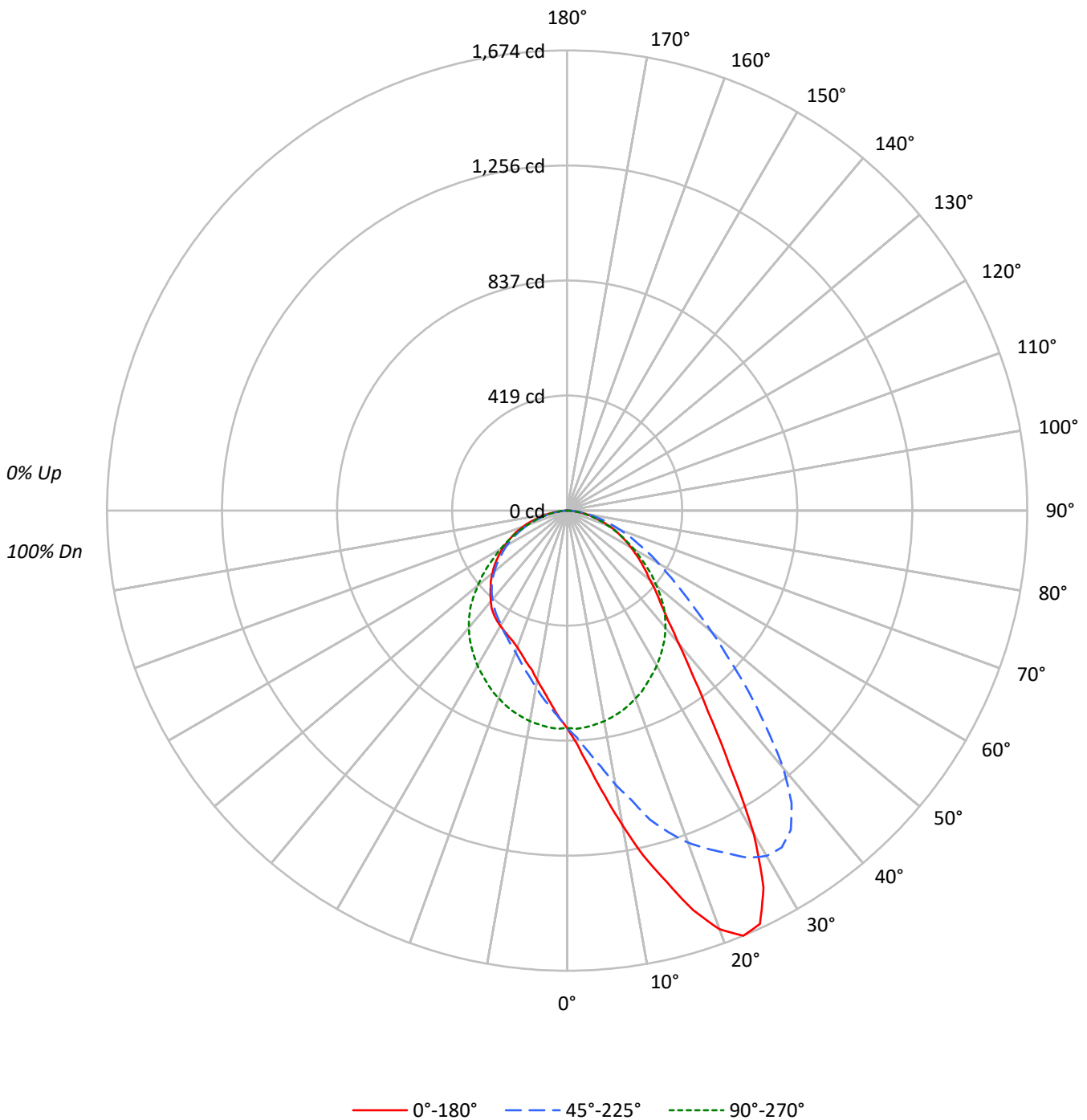
Lumens per Lamp: N/A
Luminaire Lumens: 2386.3 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.5
Luminous Opening: Rectangular (W 7.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 22.8
Input Voltage (V): 120
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4715	4715	4715
5°	5623	4736	4197
10°	7039	4712	3791
15°	8634	4674	3530
20°	10285	4614	3360
25°	10921	4542	3322
30°	9360	4490	3340
35°	6509	4415	3374
40°	4904	4327	3364
45°	4071	4197	3322
50°	3647	3931	3292
55°	3409	3644	3251
60°	3199	3345	3216
65°	3006	3048	3113
70°	2818	2713	2965
75°	2526	2374	2719
80°	2212	1944	2343
85°	1725	1410	1574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.3
10°-20°	249.7	10.5
20°-30°	420.2	17.6
30°-40°	474.9	19.9
40°-50°	425.4	17.8
50°-60°	343.4	14.4
60°-70°	239.3	10.0
70°-80°	125.6	5.3
80°-90°	30.1	1.3
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°	747.7	31.3
0°-40°	1222.7	51.2
0°-60°	1991.4	83.5
0°-90°	2386.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2386.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	791	791	791	791	791	
5°	939	880	791	716	701	97
15°	1398	1164	757	597	572	404
25°	1659	1375	690	513	505	734
35°	894	1418	606	453	463	577
45°	483	935	498	388	394	381
55°	328	508	350	300	313	294
65°	213	285	216	203	221	212
75°	110	135	103	102	118	117
85°	25	29	21	20	23	31
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°	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
2.5°	851.2	850.4	848.4	850.0	847.0	842.8	842.4	838.6	827.4	826.6	823.6
5°	939.2	936.2	935.8	935.4	930.0	922.8	909.0	907.8	889.4	880.2	869.2
7.5°	1045.8	1044.6	1041.6	1038.0	1020.0	1011.2	998.2	981.4	960.0	939.2	926.2
10°	1162.2	1174.8	1159.2	1148.4	1138.4	1119.6	1097.8	1070.6	1043.4	1011.6	987.6
12.5°	1287.0	1291.6	1291.6	1281.6	1264.8	1233.8	1191.0	1160.2	1135.8	1077.6	1056.8
15°	1398.2	1421.6	1406.6	1372.0	1372.8	1345.6	1295.2	1239.6	1210.0	1163.8	1100.6
17.5°	1523.8	1528.0	1523.4	1491.2	1475.6	1436.0	1390.4	1338.8	1283.2	1227.0	1161.4
20°	1620.4	1618.0	1604.6	1589.6	1556.8	1527.6	1476.6	1417.2	1340.6	1285.6	1212.4
22.5°	1674.0	1669.8	1665.2	1653.2	1627.2	1595.4	1551.0	1484.8	1412.8	1331.4	1244.2
25°	1659.4	1664.4	1665.2	1661.6	1652.2	1633.4	1597.4	1545.6	1472.8	1375.2	1287.0
27.5°	1546.8	1559.4	1575.6	1586.2	1603.4	1615.0	1603.4	1571.0	1511.2	1423.8	1315.4
30°	1359.0	1343.8	1381.6	1429.6	1462.2	1519.6	1551.8	1553.6	1523.4	1451.0	1346.0
32.5°	1098.6	1123.4	1135.0	1196.6	1277.4	1343.8	1415.8	1479.8	1494.6	1452.6	1364.0
35°	894.0	915.2	945.8	976.4	1053.0	1119.0	1231.6	1329.6	1407.8	1418.0	1361.8
37.5°	743.2	755.4	774.2	806.8	859.2	940.8	1030.0	1157.6	1265.2	1341.0	1333.4
40°	629.8	632.8	654.6	678.0	718.6	783.0	861.4	971.0	1106.6	1224.2	1273.2
42.5°	544.8	552.4	558.4	580.8	611.0	655.4	727.0	812.8	934.2	1074.0	1181.8
45°	482.6	490.4	496.0	511.0	534.0	566.6	617.4	700.2	794.8	934.6	1063.8
47.5°	439.8	439.0	444.0	455.8	472.4	498.4	535.8	591.0	681.8	798.6	933.8
50°	393.0	399.2	400.6	409.4	421.8	439.8	469.6	514.8	586.0	685.6	807.4
52.5°	360.0	360.8	365.8	371.6	382.0	395.0	419.8	452.8	504.8	586.0	695.6
55°	327.8	327.8	332.2	337.0	343.2	355.8	373.0	399.2	441.6	507.6	600.2
57.5°	298.0	299.6	303.4	304.6	309.8	318.8	333.6	354.4	386.8	440.2	516.8
60°	268.2	271.6	271.2	274.2	278.8	285.4	297.6	313.8	342.0	382.6	444.8
62.5°	242.0	241.0	241.0	244.8	249.4	255.4	262.4	275.8	298.8	333.6	384.2
65°	213.0	212.2	214.8	217.2	218.8	223.4	229.4	241.8	257.8	284.6	325.6
67.5°	187.6	185.4	187.4	188.0	190.8	194.6	200.8	208.4	221.4	244.0	277.0
70°	161.6	159.8	159.4	160.2	162.4	165.0	169.4	176.6	188.4	205.8	228.4
72.5°	134.8	133.6	133.6	135.6	136.4	137.8	140.6	147.0	156.0	167.8	188.4
75°	109.6	109.6	109.6	110.0	111.0	112.6	115.0	118.4	125.6	134.8	149.0
77.5°	86.6	87.0	86.2	85.8	87.8	88.4	88.8	92.6	97.0	103.8	115.0
80°	64.4	62.4	63.2	64.4	65.2	65.6	66.6	67.4	70.8	74.4	81.6
82.5°	43.6	42.2	42.2	44.0	44.0	44.4	45.6	46.8	47.4	50.6	53.6
85°	25.2	25.2	25.6	25.6	26.0	25.6	26.8	27.2	27.2	29.2	31.4
87.5°	11.4	10.8	11.2	11.4	11.2	11.4	11.8	12.2	12.6	13.0	13.4
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°	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
2.5°	821.2	818.2	815.2	809.8	805.2	798.6	796.8	794.4	787.6	781.4	776.8
5°	865.0	855.8	842.4	830.0	820.2	806.8	799.0	791.0	779.6	769.2	760.8
7.5°	906.6	890.6	871.8	851.6	832.0	813.2	798.2	784.8	770.0	755.4	744.2
10°	958.4	932.4	903.2	871.8	845.0	819.0	797.2	778.0	757.2	739.2	724.4
12.5°	1017.4	975.6	932.8	892.8	860.0	821.2	793.6	768.0	743.8	721.2	704.0
15°	1061.4	1012.4	965.0	912.4	864.2	819.0	787.6	757.0	729.8	707.6	686.0
17.5°	1105.2	1051.4	991.0	927.8	871.0	819.0	776.0	743.2	709.8	683.0	662.4
20°	1141.2	1078.0	1007.0	940.8	876.4	816.6	768.4	727.0	690.2	661.6	637.4
22.5°	1172.2	1095.6	1021.6	949.6	876.0	810.6	754.2	711.4	670.8	642.8	616.8
25°	1191.6	1103.2	1029.6	946.6	866.4	799.8	738.6	690.2	650.4	617.4	591.0
27.5°	1210.0	1102.0	1019.0	929.2	855.0	788.8	722.8	671.2	629.4	593.8	566.6
30°	1228.4	1104.0	1000.2	911.6	836.6	767.6	704.0	652.0	607.6	571.2	545.8
32.5°	1240.0	1102.8	983.0	887.2	807.4	748.4	683.8	629.4	583.4	547.8	523.6
35°	1243.0	1096.4	962.6	851.6	775.6	716.4	662.4	606.4	558.4	525.2	497.6
37.5°	1236.4	1084.4	940.4	819.4	737.4	678.4	631.2	583.4	537.4	500.2	476.2
40°	1215.4	1073.0	913.6	784.8	697.6	641.2	602.6	555.8	510.6	475.8	453.6
42.5°	1175.2	1049.6	884.0	746.6	656.2	599.8	565.0	527.8	485.8	453.6	431.4
45°	1104.8	1013.6	854.6	708.2	615.6	557.4	526.0	497.6	458.8	427.2	408.0
47.5°	1014.8	965.0	812.0	668.0	573.0	516.8	483.8	460.4	430.2	404.6	385.8
50°	920.0	902.0	768.8	626.6	530.6	475.8	444.4	423.6	403.4	377.6	360.8
52.5°	811.0	829.4	718.2	583.8	487.2	433.6	404.6	389.2	371.2	351.2	337.0
55°	709.8	750.0	658.4	534.8	444.4	393.0	365.0	350.4	339.8	324.0	311.4
57.5°	611.8	663.0	596.4	485.4	402.2	357.4	329.8	313.4	306.4	297.6	287.2
60°	526.4	576.8	529.0	435.6	359.6	317.6	293.8	280.4	273.6	267.8	259.4
62.5°	450.0	501.4	463.2	385.0	318.0	279.6	259.8	246.6	241.8	239.4	232.6
65°	381.6	425.6	398.8	332.2	278.4	244.0	225.2	216.0	211.0	210.0	205.4
67.5°	322.2	356.2	335.6	285.4	241.8	210.2	193.8	185.8	181.6	181.2	177.4
70°	264.0	295.4	280.4	236.0	199.6	176.2	162.4	155.6	153.2	152.8	151.0
72.5°	218.8	238.2	227.2	192.0	165.8	145.2	136.0	128.8	126.0	126.8	125.6
75°	168.6	185.0	178.2	152.4	129.8	116.0	107.6	103.0	100.8	101.8	100.4
77.5°	128.8	140.2	133.4	113.8	99.2	88.8	82.4	79.2	77.0	77.0	76.2
80°	91.6	97.6	94.2	83.6	72.0	63.6	58.6	56.6	55.6	55.2	54.8
82.5°	58.6	63.6	59.4	52.8	46.0	41.8	39.4	36.8	36.0	36.4	36.0
85°	33.0	34.8	33.4	28.8	25.6	23.4	21.8	20.6	20.0	20.4	19.6
87.5°	14.2	14.6	13.4	11.8	11.2	10.0	10.0	9.2	8.4	8.4	8.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
2.5°	774.2	771.4	767.6	761.8	757.2	750.0	750.0	751.2	751.2	750.8	750.0
5°	753.8	748.2	741.2	733.2	724.8	716.4	714.8	711.8	709.4	707.8	706.0
7.5°	733.2	723.6	714.0	703.0	693.4	685.2	679.6	674.6	671.4	668.0	665.4
10°	712.0	699.4	687.6	675.8	662.6	652.4	645.8	641.2	637.8	634.8	633.2
12.5°	687.2	672.2	658.8	647.8	633.2	622.4	616.4	614.8	610.6	603.4	599.4
15°	663.0	649.6	634.0	616.8	609.8	596.8	589.6	586.0	583.8	578.8	577.2
17.5°	643.2	625.2	607.2	594.4	581.8	571.6	567.4	562.8	559.6	555.0	553.8
20°	618.2	602.6	586.4	572.6	559.2	547.8	544.4	541.2	538.2	536.2	534.8
22.5°	593.0	577.2	564.6	552.0	537.4	531.0	527.0	523.6	521.8	520.6	519.0
25°	569.6	555.8	540.8	529.4	517.8	513.0	510.6	508.6	507.2	505.2	504.8
27.5°	549.0	533.6	521.0	509.8	501.4	497.2	494.6	493.4	493.4	494.2	494.6
30°	525.2	511.4	501.4	492.2	484.6	480.8	480.4	480.4	481.8	482.2	483.0
32.5°	503.4	492.6	482.6	473.8	468.4	466.2	468.0	468.0	469.2	470.4	472.0
35°	482.2	472.4	464.6	457.0	452.0	453.2	454.0	454.6	456.6	458.8	460.4
37.5°	462.4	453.2	445.2	439.0	436.0	438.2	440.2	441.6	444.0	445.8	447.4
40°	440.6	434.0	426.4	421.0	421.8	422.8	424.4	426.4	428.2	429.4	431.0
42.5°	420.2	413.4	408.0	403.8	404.8	406.4	407.2	408.0	410.2	412.6	413.4
45°	399.6	394.2	388.8	386.2	386.8	387.6	388.4	389.6	391.4	393.0	393.4
47.5°	376.2	372.4	368.8	365.8	367.4	367.0	368.2	370.4	371.2	372.0	374.2
50°	354.0	350.4	346.2	345.6	345.6	345.6	345.8	349.0	349.0	350.4	352.0
52.5°	329.4	327.6	325.2	323.6	323.0	323.0	324.8	326.0	326.8	329.0	330.6
55°	305.2	303.0	300.6	299.6	298.8	299.6	302.6	303.4	305.2	306.4	307.6
57.5°	280.0	278.4	276.6	275.8	275.8	276.2	278.4	280.4	280.8	284.6	286.2
60°	255.2	252.4	251.0	251.0	250.2	253.6	252.8	256.6	257.4	259.8	262.4
62.5°	229.4	225.6	225.2	225.2	226.8	227.2	228.6	229.8	232.2	235.2	237.2
65°	201.4	199.6	202.2	201.8	201.2	203.4	203.4	205.4	207.6	210.2	214.6
67.5°	175.4	174.0	174.6	174.2	175.4	177.0	178.2	179.6	182.4	185.4	188.0
70°	149.0	150.2	148.2	149.8	151.0	151.4	152.0	154.4	157.4	159.4	162.4
72.5°	123.4	123.0	123.8	124.2	125.2	126.0	126.8	129.4	133.0	134.4	136.8
75°	98.8	98.4	99.6	99.6	101.6	102.2	103.0	104.2	107.2	109.6	111.4
77.5°	76.6	77.0	76.6	78.2	77.4	77.8	80.0	81.2	81.6	86.6	87.4
80°	54.4	55.2	55.6	56.0	56.4	55.6	58.2	59.4	59.4	62.0	64.0
82.5°	35.2	35.6	36.8	37.2	37.2	38.4	38.0	38.6	39.8	40.6	43.2
85°	19.6	20.6	21.0	20.6	21.0	20.4	21.4	21.8	22.2	22.2	22.2
87.5°	7.6	8.0	7.6	8.0	7.6	8.0	8.0	7.2	7.2	8.4	6.8
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: P273728

CATALOG NUMBER: 8RCG-4-34D-L935-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	790.6	790.6	790.6	790.6
2.5°	747.4	747.0	749.6	747.8
5°	703.6	704.8	701.0	701.0
7.5°	664.2	662.6	663.0	660.4
10°	628.6	626.2	625.6	626.0
12.5°	599.0	599.0	593.0	593.0
15°	577.2	570.0	569.2	571.6
17.5°	553.2	549.0	549.2	548.6
20°	534.8	532.4	532.0	529.4
22.5°	517.8	517.6	517.8	514.8
25°	504.4	506.4	504.8	504.8
27.5°	495.2	495.2	494.2	494.2
30°	484.6	484.2	485.0	485.0
32.5°	473.8	474.6	474.6	475.0
35°	462.8	463.2	464.2	463.4
37.5°	448.2	450.0	449.8	450.4
40°	431.4	432.4	432.0	432.0
42.5°	414.0	414.8	413.6	413.0
45°	395.0	394.2	395.4	393.8
47.5°	373.8	374.2	374.6	376.2
50°	352.8	355.0	355.0	354.8
52.5°	332.2	332.8	334.8	334.8
55°	310.6	311.4	312.2	312.6
57.5°	288.8	288.4	290.0	290.4
60°	265.4	265.4	268.6	269.6
62.5°	240.6	242.0	245.2	242.8
65°	216.4	219.4	219.2	220.6
67.5°	191.2	193.0	196.2	196.2
70°	165.4	167.4	169.0	170.0
72.5°	140.6	141.4	145.6	143.2
75°	114.2	116.8	119.2	118.0
77.5°	88.8	92.4	93.0	92.0
80°	66.6	66.2	68.6	68.2
82.5°	44.4	44.0	44.8	45.2
85°	23.8	24.8	23.4	23.0
87.5°	6.8	6.8	6.6	6.2
90°	0.0	0.0	0.0	0.0

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