

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: P248391

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248391
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: LSR8B80D010 EC8B80935 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7501.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

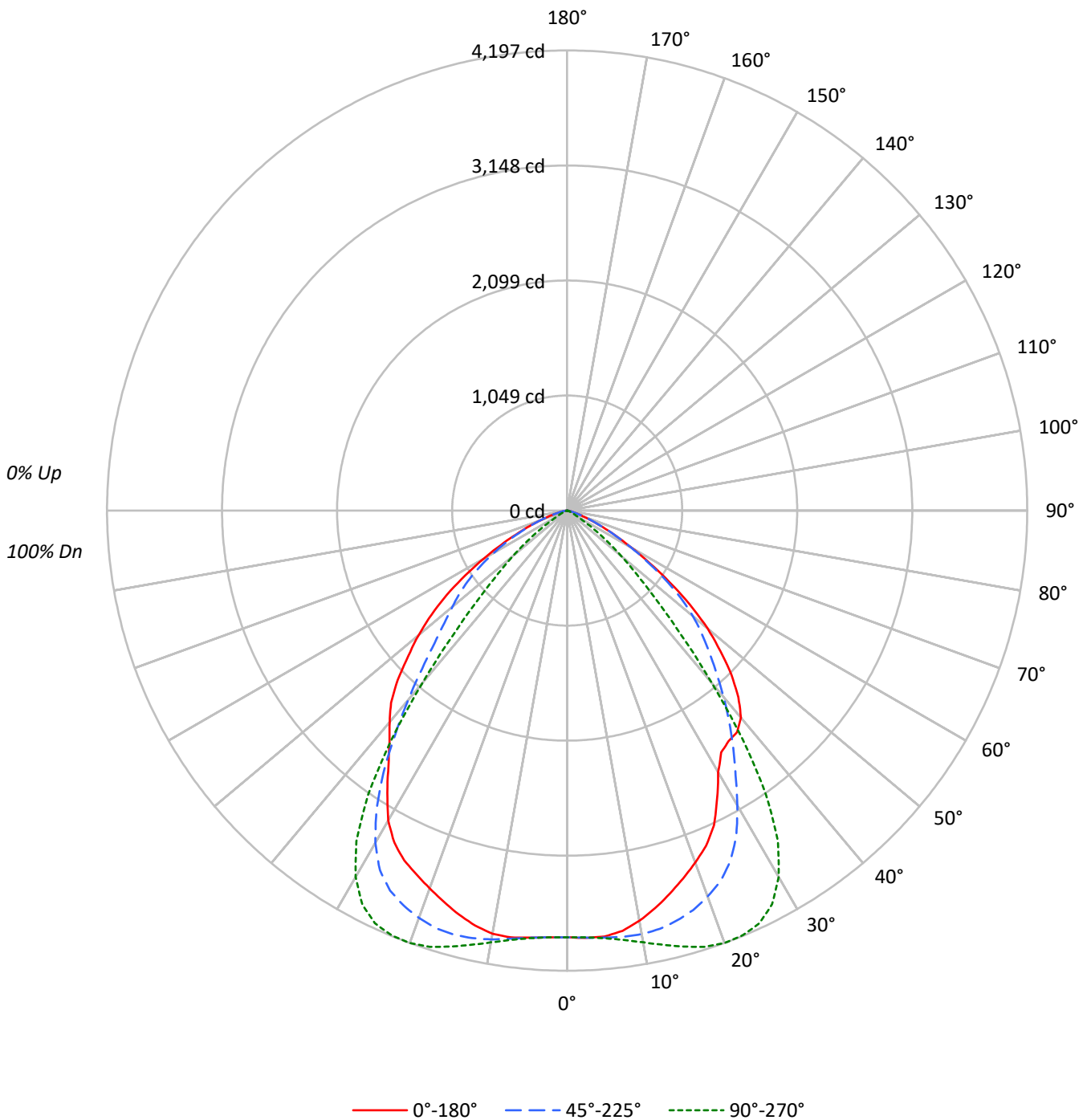
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	119993	119993	119993
5°	120706	121154	121027
10°	118932	125207	122749
15°	115457	131412	121784
20°	112104	137726	120308
25°	107802	141251	119748
30°	98107	137381	116199
35°	96644	119038	106909
40°	99270	82561	101347
45°	92412	49898	95299
50°	80158	30813	84917
55°	61514	16102	72067
60°	41907	6494	54389
65°	26070	3313	37526
70°	14155	2047	22909
75°	7387	977	13535
80°	3303	1101	7334
85°	2194	743	6581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	5.0
10°-20°	1108.6	14.8
20°-30°	1691.2	22.5
30°-40°	1764.8	23.5
40°-50°	1325.6	17.7
50°-60°	815.6	10.9
60°-70°	331.9	4.4
70°-80°	78.2	1.0
80°-90°	10.8	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°	3174.0	42.3
0°-40°	4938.9	65.8
0°-60°	7080.1	94.4
0°-90°	7501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3891	3891	3891	3891	3891	
5°	3900	3910	3914	3910	3910	369
15°	3617	3871	4116	4003	3815	1019
25°	3168	3524	4152	3823	3520	1440
35°	2567	2640	3162	2923	2840	1621
45°	2119	1834	1144	1708	2185	1617
55°	1144	1086	300	1086	1340	1029
65°	357	361	45	485	514	373
75°	62	62	8	110	114	75
85°	6	6	2	14	19	9
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°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3901.6	3895.4	3901.6	3901.6	3903.7	3899.5	3901.6	3903.7	3899.5	3899.5	3899.5
5°	3899.5	3895.4	3899.5	3897.5	3901.6	3901.6	3905.8	3905.8	3909.9	3909.9	3916.1
7.5°	3866.5	3858.3	3866.5	3872.7	3876.8	3885.1	3895.4	3903.7	3911.9	3920.2	3930.5
10°	3798.3	3798.3	3804.5	3816.9	3829.3	3843.7	3862.3	3883.0	3903.7	3922.2	3940.8
12.5°	3713.7	3707.4	3719.8	3736.4	3755.0	3777.7	3806.6	3837.6	3870.6	3907.8	3936.7
15°	3616.6	3610.4	3624.8	3641.3	3664.1	3697.1	3732.3	3773.6	3821.1	3870.6	3918.1
17.5°	3517.4	3515.4	3529.8	3552.5	3571.1	3606.2	3651.7	3701.2	3755.0	3821.1	3883.0
20°	3416.2	3414.2	3428.6	3447.2	3472.0	3505.0	3550.5	3608.3	3672.3	3746.7	3819.0
22.5°	3310.9	3313.0	3325.3	3346.0	3366.7	3401.7	3449.3	3507.1	3577.3	3657.9	3738.4
25°	3168.4	3158.1	3174.6	3195.2	3230.3	3259.2	3304.7	3366.7	3438.9	3523.6	3618.7
27.5°	2961.8	2959.7	2974.2	2992.8	3023.8	3058.9	3108.5	3172.5	3248.9	3341.9	3434.8
30°	2755.3	2759.4	2765.6	2784.2	2804.8	2840.0	2889.5	2943.3	3015.5	3104.3	3203.5
32.5°	2614.8	2614.8	2623.1	2635.5	2649.9	2668.5	2703.7	2742.9	2798.7	2860.6	2932.9
35°	2567.3	2559.1	2567.3	2569.4	2571.5	2575.6	2581.8	2594.2	2612.8	2639.6	2666.5
37.5°	2546.7	2540.5	2540.5	2532.2	2521.9	2509.5	2493.0	2474.4	2453.8	2426.9	2406.3
40°	2466.1	2462.0	2457.9	2449.6	2426.9	2402.1	2375.2	2331.9	2284.4	2218.3	2152.2
42.5°	2311.2	2307.1	2305.0	2288.5	2267.8	2238.9	2207.9	2162.5	2102.6	2017.9	1922.9
45°	2119.1	2110.9	2104.7	2090.2	2075.7	2051.0	2022.1	1980.7	1920.8	1834.1	1720.5
47.5°	1896.1	1891.9	1889.9	1883.7	1869.2	1854.7	1836.2	1803.1	1749.4	1666.8	1549.1
50°	1670.9	1662.7	1666.8	1664.8	1658.5	1648.2	1635.8	1613.1	1571.8	1497.4	1390.0
52.5°	1412.7	1412.7	1410.7	1416.9	1418.9	1416.9	1418.9	1394.2	1359.1	1303.3	1212.4
55°	1144.2	1144.2	1150.4	1158.7	1167.0	1169.0	1167.0	1156.7	1131.8	1086.4	1005.9
57.5°	892.2	888.1	900.5	912.9	921.2	929.4	923.2	915.0	900.5	863.3	801.4
60°	679.5	679.5	687.8	696.1	704.3	712.6	710.5	708.4	696.1	671.2	621.7
62.5°	499.8	501.9	501.9	508.1	516.3	524.6	530.8	524.6	518.4	501.9	468.8
65°	357.3	355.2	357.3	363.5	369.7	378.0	382.1	380.0	373.8	361.4	336.7
67.5°	239.6	237.5	245.8	247.8	252.0	260.3	258.2	260.3	258.2	247.8	227.2
70°	157.0	152.8	157.0	154.9	161.1	163.2	167.3	169.4	167.3	161.1	154.9
72.5°	97.1	95.0	97.1	99.2	101.2	103.2	107.4	107.4	105.3	101.2	92.9
75°	62.0	55.7	57.8	53.7	57.8	57.8	62.0	64.0	62.0	62.0	57.8
77.5°	37.2	37.2	37.2	37.2	37.2	37.2	37.2	39.3	41.3	37.2	35.1
80°	18.6	18.6	20.7	20.7	20.7	22.7	20.7	20.7	20.7	22.7	16.5
82.5°	14.5	12.4	12.4	12.4	14.5	12.4	12.4	12.4	12.4	12.4	12.4
85°	6.2	8.2	6.2	4.1	6.2	6.2	8.2	6.2	6.2	6.2	8.2
87.5°	2.1	2.1	0.0	0.0	0.0	2.1	0.0	2.1	2.1	4.1	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°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3901.6	3897.5	3897.5	3895.4	3899.5	3895.4	3897.5	3895.4	3895.4	3899.5	3895.4
5°	3916.1	3918.1	3914.0	3911.9	3918.1	3918.1	3918.1	3914.0	3914.0	3916.1	3914.0
7.5°	3936.7	3940.8	3942.9	3945.0	3949.1	3951.2	3951.2	3949.1	3947.0	3953.3	3945.0
10°	3959.4	3965.6	3978.0	3984.2	3994.6	3994.6	3998.7	3998.7	3994.6	3998.7	3996.6
12.5°	3951.2	3988.3	4009.0	4023.5	4037.9	4050.3	4054.4	4056.5	4054.4	4062.7	4054.4
15°	3965.6	3996.6	4029.7	4054.4	4081.3	4095.7	4099.9	4116.4	4120.5	4122.6	4110.2
17.5°	3942.9	3998.7	4033.8	4071.0	4110.2	4137.1	4161.8	4172.2	4174.3	4178.4	4161.8
20°	3891.3	3953.3	4006.9	4060.7	4106.1	4147.4	4168.0	4197.0	4188.7	4205.2	4182.5
22.5°	3821.1	3891.3	3959.4	4029.7	4077.2	4126.8	4170.1	4190.7	4201.1	4201.1	4176.3
25°	3709.5	3792.1	3866.5	3938.8	4011.1	4071.0	4120.5	4151.5	4157.7	4155.7	4126.8
27.5°	3536.0	3624.8	3711.6	3794.2	3883.0	3953.3	4011.1	4048.2	4058.6	4058.6	4027.6
30°	3296.4	3391.4	3476.1	3575.2	3666.2	3744.6	3825.2	3858.3	3876.8	3876.8	3841.7
32.5°	3011.4	3091.9	3170.4	3267.5	3366.7	3455.5	3531.9	3577.3	3600.1	3598.0	3567.0
35°	2701.6	2740.8	2800.7	2873.0	2961.8	3044.4	3118.8	3162.2	3201.4	3199.3	3170.4
37.5°	2391.7	2381.4	2387.7	2414.5	2470.2	2528.1	2585.9	2627.3	2660.3	2674.8	2668.5
40°	2088.2	2034.4	1982.8	1964.2	1968.3	1989.0	2020.0	2051.0	2088.2	2106.8	2115.0
42.5°	1815.5	1724.6	1633.7	1565.6	1526.3	1514.0	1528.4	1538.7	1561.5	1588.3	1615.2
45°	1596.6	1474.7	1354.9	1249.6	1183.5	1144.2	1136.0	1144.2	1156.7	1183.5	1218.6
47.5°	1416.9	1274.4	1140.1	1022.4	925.3	873.7	859.2	855.1	867.5	892.2	939.8
50°	1257.8	1115.3	966.6	830.3	729.1	671.2	650.6	642.3	656.8	675.4	718.7
52.5°	1084.3	943.9	791.1	658.9	553.5	493.7	470.9	458.5	466.8	491.6	534.9
55°	896.4	766.3	627.9	491.6	390.4	334.6	307.7	299.5	307.7	334.6	378.0
57.5°	708.4	599.0	483.3	355.2	264.4	208.6	181.7	173.5	196.2	206.5	252.0
60°	553.5	464.7	365.6	260.3	181.7	138.4	111.5	105.3	115.7	134.2	171.4
62.5°	415.2	359.4	280.9	185.9	134.2	88.8	74.3	68.2	74.3	88.8	117.8
65°	301.6	258.2	196.2	136.3	90.9	66.1	49.6	45.4	51.6	62.0	86.8
67.5°	206.5	173.5	136.3	95.0	62.0	41.3	35.1	35.1	37.2	45.4	64.0
70°	134.2	113.6	86.8	62.0	41.3	31.0	26.8	22.7	26.8	33.1	43.4
72.5°	84.7	72.3	55.7	43.4	31.0	22.7	18.6	16.5	20.7	24.8	33.1
75°	51.6	39.3	28.9	22.7	16.5	16.5	16.5	8.2	10.3	16.5	20.7
77.5°	31.0	26.8	22.7	18.6	14.5	8.2	8.2	8.2	10.3	12.4	18.6
80°	16.5	14.5	10.3	10.3	8.2	6.2	8.2	6.2	4.1	10.3	12.4
82.5°	10.3	8.2	8.2	8.2	10.3	4.1	6.2	4.1	6.2	8.2	6.2
85°	6.2	6.2	6.2	4.1	10.3	4.1	4.1	2.1	2.1	4.1	4.1
87.5°	0.0	2.1	2.1	0.0	2.1	0.0	2.1	2.1	2.1	2.1	2.1
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°	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3	3891.3
2.5°	3897.5	3895.4	3897.5	3895.4	3895.4	3895.4	3897.5	3897.5	3895.4	3895.4	3899.5
5°	3914.0	3914.0	3914.0	3911.9	3909.9	3909.9	3914.0	3914.0	3907.8	3914.0	3914.0
7.5°	3949.1	3942.9	3949.1	3940.8	3936.7	3938.8	3940.8	3936.7	3932.6	3934.7	3934.7
10°	3994.6	3988.3	3988.3	3982.2	3976.0	3971.8	3967.7	3957.4	3947.0	3945.0	3936.7
12.5°	4048.2	4037.9	4031.7	4019.3	4009.0	3994.6	3982.2	3965.6	3945.0	3930.5	3916.1
15°	4101.9	4085.4	4071.0	4050.3	4027.6	4002.8	3976.0	3949.1	3916.1	3887.2	3862.3
17.5°	4145.3	4122.6	4095.7	4062.7	4029.7	3992.5	3953.3	3914.0	3866.5	3829.3	3800.4
20°	4159.8	4126.8	4091.6	4048.2	4004.9	3953.3	3903.7	3852.0	3798.3	3759.1	3726.0
22.5°	4141.2	4101.9	4058.6	4013.1	3955.3	3899.5	3841.7	3781.8	3734.3	3680.6	3649.6
25°	4089.6	4042.1	3994.6	3940.8	3885.1	3823.1	3761.2	3699.2	3641.3	3612.4	3573.2
27.5°	3984.2	3932.6	3880.9	3825.2	3761.2	3699.2	3635.2	3575.2	3525.7	3486.4	3463.8
30°	3798.3	3738.4	3678.5	3618.7	3562.9	3498.8	3438.9	3389.4	3339.8	3308.8	3286.1
32.5°	3513.3	3459.6	3399.7	3341.9	3290.3	3236.5	3187.0	3143.6	3108.5	3087.8	3071.3
35°	3129.1	3075.4	3030.0	2988.7	2945.3	2922.6	2891.6	2866.8	2852.4	2844.1	2842.0
37.5°	2645.8	2614.8	2600.4	2592.1	2583.8	2577.7	2581.8	2592.1	2600.4	2614.8	2631.3
40°	2129.5	2156.3	2164.6	2193.5	2220.3	2255.4	2294.7	2340.1	2377.3	2424.8	2457.9
42.5°	1658.5	1708.1	1765.9	1827.9	1894.0	1958.0	2036.5	2108.8	2174.9	2234.8	2286.4
45°	1274.4	1350.8	1437.5	1526.3	1615.2	1708.1	1803.1	1891.9	1970.4	2034.4	2088.2
47.5°	993.5	1078.2	1189.7	1299.2	1406.6	1516.0	1621.4	1714.3	1780.4	1842.4	1889.9
50°	786.9	884.0	1005.9	1131.8	1249.6	1365.2	1476.8	1563.5	1629.6	1679.2	1714.3
52.5°	609.3	725.0	848.9	981.1	1107.1	1233.1	1336.3	1416.9	1470.6	1514.0	1540.8
55°	454.4	568.0	700.2	836.5	964.6	1086.4	1183.5	1253.7	1301.2	1326.0	1340.5
57.5°	328.4	431.7	563.9	700.2	815.8	931.5	1010.0	1074.0	1100.9	1115.3	1121.5
60°	239.6	334.6	452.3	570.1	679.5	772.5	840.6	884.0	904.7	912.9	910.8
62.5°	175.6	258.2	359.4	458.5	547.3	623.7	677.5	706.4	716.7	720.8	714.7
65°	134.2	198.3	285.0	361.4	429.6	485.4	524.6	543.2	549.4	547.3	543.2
67.5°	99.2	148.7	212.8	270.6	320.2	363.5	384.2	400.7	404.8	398.6	392.4
70°	70.2	109.5	154.9	194.2	231.3	256.1	278.8	280.9	280.9	278.8	274.7
72.5°	49.6	76.4	105.3	132.2	154.9	173.5	181.7	188.0	185.9	183.8	179.7
75°	33.1	47.5	76.4	82.6	103.2	109.5	117.8	117.8	119.8	113.6	113.6
77.5°	20.7	33.1	45.4	53.7	62.0	70.2	74.3	74.3	76.4	74.3	74.3
80°	12.4	20.7	24.8	37.2	37.2	43.4	45.4	47.5	43.4	49.6	43.4
82.5°	8.2	12.4	18.6	18.6	22.7	26.8	26.8	28.9	28.9	26.8	26.8
85°	6.2	8.2	10.3	12.4	12.4	14.5	12.4	12.4	14.5	16.5	14.5
87.5°	2.1	4.1	2.1	4.1	4.1	8.2	6.2	6.2	6.2	8.2	8.2
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: P248391

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3891.3	3891.3	3891.3	3891.3
2.5°	3895.4	3897.5	3895.4	3895.4
5°	3914.0	3911.9	3914.0	3909.9
7.5°	3928.4	3928.4	3926.4	3926.4
10°	3928.4	3920.2	3920.2	3920.2
12.5°	3897.5	3887.2	3880.9	3876.8
15°	3843.7	3825.2	3816.9	3814.8
17.5°	3773.6	3757.0	3746.7	3740.5
20°	3693.0	3676.5	3664.1	3666.2
22.5°	3622.7	3604.2	3595.9	3591.8
25°	3552.5	3529.8	3523.6	3519.5
27.5°	3438.9	3426.6	3420.3	3414.2
30°	3265.4	3259.2	3248.9	3263.4
32.5°	3065.1	3054.8	3046.5	3052.7
35°	2844.1	2837.9	2844.1	2840.0
37.5°	2641.7	2647.9	2656.2	2660.3
40°	2482.7	2505.4	2513.6	2517.7
42.5°	2323.6	2350.5	2367.0	2377.3
45°	2127.4	2154.2	2172.8	2185.3
47.5°	1925.0	1947.7	1966.3	1964.2
50°	1741.2	1753.6	1761.8	1770.1
52.5°	1555.2	1555.2	1557.3	1557.3
55°	1344.6	1340.5	1338.4	1340.5
57.5°	1113.2	1109.2	1107.1	1100.9
60°	902.6	890.2	881.9	881.9
62.5°	706.4	691.9	685.7	683.7
65°	530.8	528.7	516.3	514.3
67.5°	384.2	375.9	367.7	369.7
70°	270.6	258.2	258.2	254.1
72.5°	175.6	169.4	167.3	167.3
75°	109.5	109.5	105.3	113.6
77.5°	72.3	72.3	70.2	72.3
80°	43.4	43.4	43.4	41.3
82.5°	26.8	28.9	26.8	26.8
85°	14.5	16.5	12.4	18.6
87.5°	8.2	10.3	8.2	10.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)