

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: P248539

Luminaire Tested: **LSR8B150D010 EC8B1509730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248539
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: LSR8B150D010 EC8B1509730 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12224.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

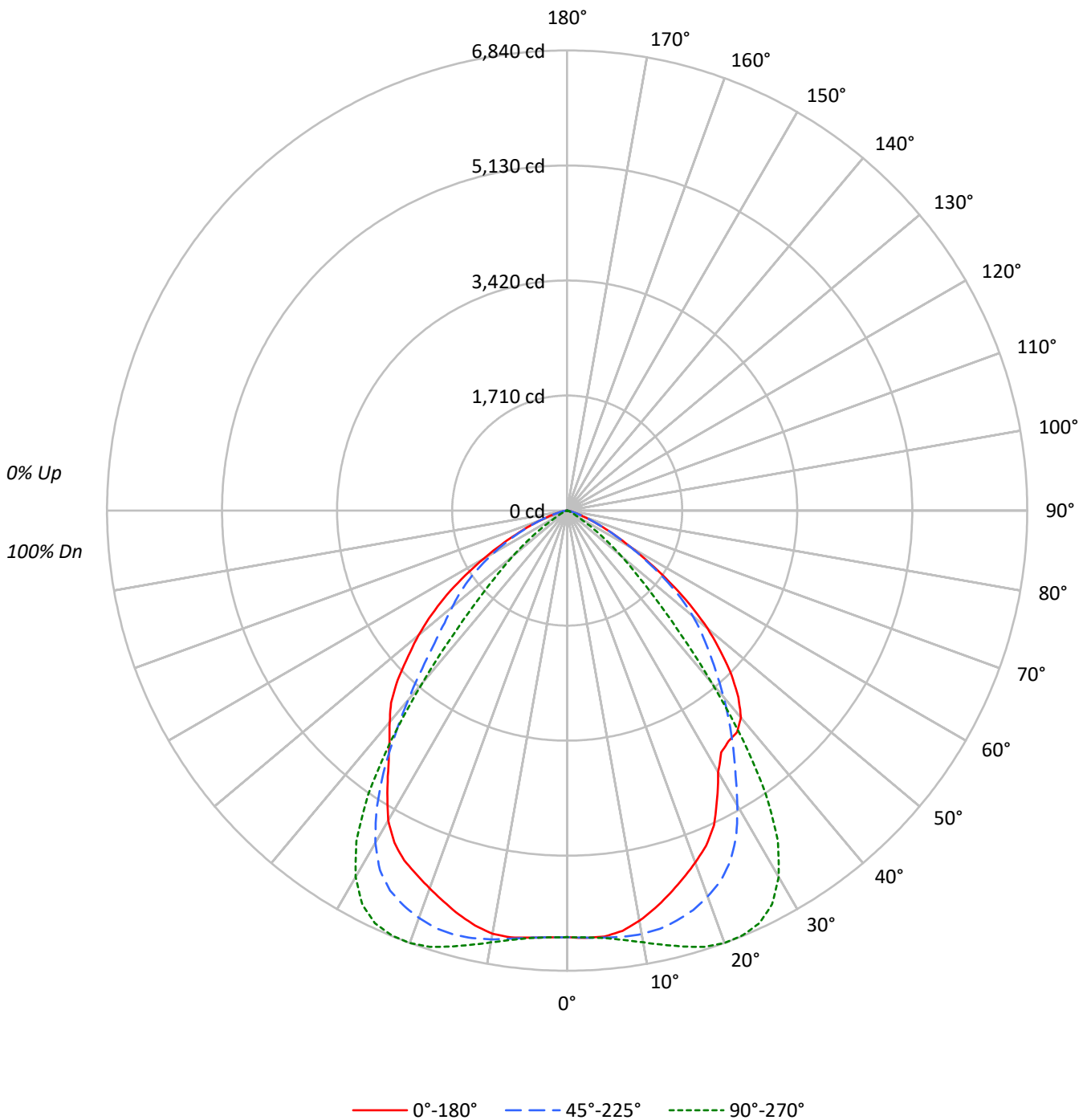
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.8	5.0
10°-20°	1806.6	14.8
20°-30°	2756.1	22.5
30°-40°	2876.1	23.5
40°-50°	2160.3	17.7
50°-60°	1329.2	10.9
60°-70°	540.9	4.4
70°-80°	127.4	1.0
80°-90°	17.6	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°	5172.5	42.3
0°-40°	8048.6	65.8
0°-60°	11538.1	94.4
0°-90°	12224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6341	6341	6341	6341	6341	
5°	6355	6372	6378	6372	6372	601
15°	5894	6308	6708	6523	6217	1660
25°	5163	5742	6766	6230	5736	2347
35°	4184	4302	5153	4763	4628	2642
45°	3454	2989	1865	2784	3561	2635
55°	1865	1770	488	1770	2184	1676
65°	582	589	74	791	838	607
75°	101	101	13	178	185	122
85°	10	10	3	24	30	14
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°	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4
2.5°	6358.3	6348.1	6358.3	6358.3	6361.6	6354.9	6358.3	6361.6	6354.9	6354.9	6354.9
5°	6354.9	6348.1	6354.9	6351.5	6358.3	6358.3	6365.0	6365.0	6371.7	6371.7	6381.8
7.5°	6301.0	6287.6	6301.0	6311.2	6317.8	6331.3	6348.1	6361.6	6375.1	6388.6	6405.4
10°	6189.9	6189.9	6200.1	6220.2	6240.4	6264.0	6294.3	6328.0	6361.6	6391.9	6422.2
12.5°	6052.0	6041.8	6062.0	6089.0	6119.3	6156.3	6203.4	6253.9	6307.8	6368.3	6415.5
15°	5893.8	5883.6	5907.2	5934.1	5971.2	6025.0	6082.3	6149.6	6227.0	6307.8	6385.2
17.5°	5732.2	5728.8	5752.4	5789.4	5819.7	5876.9	5951.0	6031.7	6119.3	6227.0	6328.0
20°	5567.3	5563.9	5587.5	5617.8	5658.1	5712.0	5786.0	5880.3	5984.6	6105.8	6223.6
22.5°	5395.6	5398.9	5419.1	5452.8	5486.5	5543.7	5621.1	5715.4	5829.8	5961.0	6092.3
25°	5163.3	5146.5	5173.4	5207.1	5264.3	5311.4	5385.5	5486.5	5604.3	5742.3	5897.1
27.5°	4826.7	4823.3	4847.0	4877.2	4927.7	4984.9	5065.7	5170.1	5294.6	5446.1	5597.5
30°	4490.1	4496.9	4507.0	4537.3	4570.9	4628.2	4708.9	4796.5	4914.3	5059.0	5220.6
32.5°	4261.2	4261.2	4274.7	4294.9	4318.5	4348.8	4406.0	4469.9	4560.9	4661.8	4779.6
35°	4183.8	4170.4	4183.8	4187.2	4190.6	4197.3	4207.4	4227.6	4257.9	4301.7	4345.4
37.5°	4150.2	4140.1	4140.1	4126.7	4109.8	4089.6	4062.7	4032.4	3998.8	3955.0	3921.3
40°	4018.9	4012.2	4005.4	3992.0	3955.0	3914.6	3870.8	3800.1	3722.7	3615.0	3507.3
42.5°	3766.5	3759.8	3756.4	3729.5	3695.8	3648.7	3598.2	3524.1	3426.5	3288.5	3133.7
45°	3453.5	3440.0	3429.9	3406.4	3382.7	3342.4	3295.3	3227.9	3130.3	2989.0	2803.8
47.5°	3089.9	3083.2	3079.8	3069.8	3046.2	3022.6	2992.3	2938.5	2850.9	2716.3	2524.5
50°	2723.0	2709.6	2716.3	2713.0	2702.9	2686.0	2665.8	2628.8	2561.4	2440.3	2265.3
52.5°	2302.3	2302.3	2299.0	2309.0	2312.4	2309.0	2312.4	2272.0	2214.8	2123.9	1975.8
55°	1864.7	1864.7	1874.8	1888.3	1901.7	1905.1	1901.7	1884.9	1844.5	1770.5	1639.2
57.5°	1454.0	1447.4	1467.6	1487.7	1501.2	1514.7	1504.5	1491.1	1467.6	1406.9	1306.0
60°	1107.4	1107.4	1120.8	1134.3	1147.8	1161.3	1157.9	1154.5	1134.3	1093.9	1013.2
62.5°	814.5	817.9	817.9	828.0	841.5	855.0	865.0	855.0	844.8	817.9	764.0
65°	582.3	578.9	582.3	592.4	602.5	616.0	622.7	619.3	609.2	589.0	548.7
67.5°	390.5	387.1	400.5	403.9	410.6	424.1	420.8	424.1	420.8	403.9	370.3
70°	255.8	249.1	255.8	252.4	262.6	265.9	272.6	276.0	272.6	262.6	252.4
72.5°	158.2	154.8	158.2	161.6	165.0	168.3	175.0	175.0	171.6	165.0	151.5
75°	101.0	90.8	94.2	87.5	94.2	94.2	101.0	104.3	101.0	101.0	94.2
77.5°	60.6	60.6	60.6	60.6	60.6	60.6	60.6	64.0	67.3	60.6	57.2
80°	30.3	30.3	33.7	33.7	33.7	37.1	33.7	33.7	33.7	37.1	26.9
82.5°	23.6	20.2	20.2	20.2	23.6	20.2	20.2	20.2	20.2	20.2	20.2
85°	10.1	13.4	10.1	6.8	10.1	10.1	13.4	10.1	10.1	10.1	13.4
87.5°	3.4	3.4	0.0	0.0	0.0	3.4	0.0	3.4	3.4	6.8	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°	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4
2.5°	6358.3	6351.5	6351.5	6348.1	6354.9	6348.1	6351.5	6348.1	6348.1	6354.9	6348.1
5°	6381.8	6385.2	6378.4	6375.1	6385.2	6385.2	6385.2	6378.4	6378.4	6381.8	6378.4
7.5°	6415.5	6422.2	6425.6	6428.9	6435.7	6439.1	6439.1	6435.7	6432.3	6442.4	6428.9
10°	6452.5	6462.6	6482.8	6492.9	6509.7	6509.7	6516.5	6516.5	6509.7	6516.5	6513.1
12.5°	6439.1	6499.6	6533.3	6556.8	6580.4	6600.6	6607.3	6610.7	6607.3	6620.8	6607.3
15°	6462.6	6513.1	6567.0	6607.3	6651.0	6674.6	6681.4	6708.3	6715.0	6718.4	6698.2
17.5°	6425.6	6516.5	6573.6	6634.2	6698.2	6742.0	6782.3	6799.2	6802.6	6809.3	6782.3
20°	6341.4	6442.4	6529.9	6617.4	6691.5	6758.8	6792.5	6839.6	6826.1	6853.1	6816.0
22.5°	6227.0	6341.4	6452.5	6567.0	6644.4	6725.2	6795.8	6829.4	6846.3	6846.3	6805.9
25°	6045.2	6179.9	6301.0	6418.8	6536.7	6634.2	6715.0	6765.5	6775.7	6772.3	6725.2
27.5°	5762.5	5907.2	6048.6	6183.2	6328.0	6442.4	6536.7	6597.2	6614.1	6614.1	6563.6
30°	5372.0	5526.9	5664.9	5826.4	5974.6	6102.5	6233.7	6287.6	6317.8	6317.8	6260.7
32.5°	4907.5	5038.8	5166.7	5324.9	5486.5	5631.2	5755.7	5829.8	5866.8	5863.5	5813.0
35°	4402.7	4466.6	4564.2	4682.0	4826.7	4961.4	5082.5	5153.3	5217.2	5213.8	5166.7
37.5°	3897.7	3880.9	3891.0	3934.8	4025.6	4119.9	4214.1	4281.5	4335.3	4358.9	4348.8
40°	3403.0	3315.4	3231.3	3201.0	3207.7	3241.4	3291.9	3342.4	3403.0	3433.3	3446.7
42.5°	2958.7	2810.6	2662.4	2551.4	2487.4	2467.2	2490.8	2507.6	2544.6	2588.4	2632.2
45°	2601.9	2403.3	2208.0	2036.4	1928.7	1864.7	1851.3	1864.7	1884.9	1928.7	1985.9
47.5°	2309.0	2076.8	1858.0	1666.1	1507.9	1423.8	1400.3	1393.5	1413.7	1454.0	1531.5
50°	2049.8	1817.6	1575.3	1353.1	1188.2	1093.9	1060.3	1046.8	1070.3	1100.6	1171.3
52.5°	1767.1	1538.2	1289.2	1073.7	902.1	804.5	767.4	747.2	760.7	801.1	871.8
55°	1460.8	1248.7	1023.2	801.1	636.1	545.3	501.5	488.1	501.5	545.3	616.0
57.5°	1154.5	976.1	787.6	578.9	430.8	340.0	296.2	282.7	319.8	336.6	410.6
60°	902.1	757.4	595.8	424.1	296.2	225.5	181.8	171.6	188.5	218.7	279.4
62.5°	676.6	585.7	457.8	302.9	218.7	144.7	121.2	111.1	121.2	144.7	191.9
65°	491.4	420.8	319.8	222.1	148.1	107.7	80.8	74.0	84.2	101.0	141.4
67.5°	336.6	282.7	222.1	154.8	101.0	67.3	57.2	57.2	60.6	74.0	104.3
70°	218.7	185.1	141.4	101.0	67.3	50.5	43.7	37.1	43.7	53.9	70.7
72.5°	138.0	117.8	90.8	70.7	50.5	37.1	30.3	26.9	33.7	40.4	53.9
75°	84.2	64.0	47.1	37.1	26.9	26.9	26.9	13.4	16.8	26.9	33.7
77.5°	50.5	43.7	37.1	30.3	23.6	13.4	13.4	13.4	16.8	20.2	30.3
80°	26.9	23.6	16.8	16.8	13.4	10.1	13.4	10.1	6.8	16.8	20.2
82.5°	16.8	13.4	13.4	13.4	16.8	6.8	10.1	6.8	10.1	13.4	10.1
85°	10.1	10.1	10.1	6.8	16.8	6.8	6.8	3.4	3.4	6.8	6.8
87.5°	0.0	3.4	3.4	0.0	3.4	0.0	3.4	3.4	3.4	3.4	3.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4	6341.4
2.5°	6351.5	6348.1	6351.5	6348.1	6348.1	6348.1	6351.5	6351.5	6348.1	6348.1	6354.9
5°	6378.4	6378.4	6378.4	6375.1	6371.7	6371.7	6378.4	6378.4	6368.3	6378.4	6378.4
7.5°	6435.7	6425.6	6435.7	6422.2	6415.5	6418.8	6422.2	6415.5	6408.7	6412.1	6412.1
10°	6509.7	6499.6	6499.6	6489.5	6479.4	6472.7	6466.0	6449.1	6432.3	6428.9	6415.5
12.5°	6597.2	6580.4	6570.3	6550.1	6533.3	6509.7	6489.5	6462.6	6428.9	6405.4	6381.8
15°	6684.7	6657.8	6634.2	6600.6	6563.6	6523.1	6479.4	6435.7	6381.8	6334.7	6294.3
17.5°	6755.4	6718.4	6674.6	6620.8	6567.0	6506.3	6442.4	6378.4	6301.0	6240.4	6193.3
20°	6779.0	6725.2	6667.9	6597.2	6526.5	6442.4	6361.6	6277.5	6189.9	6126.0	6072.1
22.5°	6748.7	6684.7	6614.1	6540.0	6445.7	6354.9	6260.7	6163.0	6085.6	5998.1	5947.6
25°	6664.6	6587.1	6509.7	6422.2	6331.3	6230.4	6129.4	6028.4	5934.1	5887.0	5823.1
27.5°	6492.9	6408.7	6324.6	6233.7	6129.4	6028.4	5924.1	5826.4	5745.7	5681.7	5644.7
30°	6189.9	6092.3	5994.7	5897.1	5806.2	5701.9	5604.3	5523.5	5442.7	5392.2	5355.2
32.5°	5725.4	5638.0	5540.4	5446.1	5362.0	5274.4	5193.6	5123.0	5065.7	5032.0	5005.1
35°	5099.4	5011.9	4937.8	4870.5	4799.8	4762.8	4712.3	4671.9	4648.3	4634.9	4631.5
37.5°	4311.7	4261.2	4237.7	4224.3	4210.8	4200.7	4207.4	4224.3	4237.7	4261.2	4288.2
40°	3470.3	3514.0	3527.5	3574.6	3618.4	3675.6	3739.6	3813.6	3874.2	3951.6	4005.4
42.5°	2702.9	2783.6	2877.9	2978.8	3086.6	3190.9	3318.8	3436.6	3544.3	3641.9	3726.1
45°	2076.8	2201.3	2342.7	2487.4	2632.2	2783.6	2938.5	3083.2	3211.1	3315.4	3403.0
47.5°	1619.0	1757.0	1938.8	2117.2	2292.2	2470.6	2642.2	2793.7	2901.4	3002.4	3079.8
50°	1282.4	1440.6	1639.2	1844.5	2036.4	2224.8	2406.6	2548.0	2655.7	2736.5	2793.7
52.5°	992.9	1181.4	1383.4	1598.8	1804.2	2009.5	2177.7	2309.0	2396.6	2467.2	2511.0
55°	740.5	925.6	1141.1	1363.2	1571.9	1770.5	1928.7	2043.2	2120.6	2160.9	2184.5
57.5°	535.2	703.5	918.9	1141.1	1329.5	1518.0	1645.9	1750.3	1794.0	1817.6	1827.7
60°	390.5	545.3	737.1	929.0	1107.4	1258.9	1370.0	1440.6	1474.3	1487.7	1484.4
62.5°	286.1	420.8	585.7	747.2	891.9	1016.5	1104.0	1151.1	1168.0	1174.7	1164.6
65°	218.7	323.1	464.5	589.0	700.1	791.0	855.0	885.3	895.3	891.9	885.3
67.5°	161.6	242.4	346.7	440.9	521.7	592.4	626.1	653.0	659.7	649.6	639.5
70°	114.5	178.4	252.4	316.4	377.0	417.4	454.4	457.8	457.8	454.4	447.7
72.5°	80.8	124.5	171.6	215.4	252.4	282.7	296.2	306.3	302.9	299.5	292.9
75°	53.9	77.4	124.5	134.7	168.3	178.4	191.9	191.9	195.2	185.1	185.1
77.5°	33.7	53.9	74.0	87.5	101.0	114.5	121.2	121.2	124.5	121.2	121.2
80°	20.2	33.7	40.4	60.6	60.6	70.7	74.0	77.4	70.7	80.8	70.7
82.5°	13.4	20.2	30.3	30.3	37.1	43.7	43.7	47.1	47.1	43.7	43.7
85°	10.1	13.4	16.8	20.2	20.2	23.6	20.2	20.2	23.6	26.9	23.6
87.5°	3.4	6.8	3.4	6.8	6.8	13.4	10.1	10.1	10.1	13.4	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



TEST NUMBER: P248539

CATALOG NUMBER: LSR8B150D010 EC8B1509730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6341.4	6341.4	6341.4	6341.4
2.5°	6348.1	6351.5	6348.1	6348.1
5°	6378.4	6375.1	6378.4	6371.7
7.5°	6402.0	6402.0	6398.6	6398.6
10°	6402.0	6388.6	6388.6	6388.6
12.5°	6351.5	6334.7	6324.6	6317.8
15°	6264.0	6233.7	6220.2	6216.9
17.5°	6149.6	6122.6	6105.8	6095.7
20°	6018.3	5991.4	5971.2	5974.6
22.5°	5903.8	5873.6	5860.1	5853.3
25°	5789.4	5752.4	5742.3	5735.5
27.5°	5604.3	5584.1	5574.0	5563.9
30°	5321.5	5311.4	5294.6	5318.2
32.5°	4995.1	4978.2	4964.8	4974.9
35°	4634.9	4624.8	4634.9	4628.2
37.5°	4305.1	4315.1	4328.6	4335.3
40°	4045.9	4082.9	4096.4	4103.0
42.5°	3786.7	3830.4	3857.4	3874.2
45°	3466.9	3510.6	3540.9	3561.2
47.5°	3137.0	3174.1	3204.3	3201.0
50°	2837.5	2857.7	2871.1	2884.6
52.5°	2534.5	2534.5	2537.9	2537.9
55°	2191.2	2184.5	2181.1	2184.5
57.5°	1814.2	1807.5	1804.2	1794.0
60°	1470.9	1450.7	1437.2	1437.2
62.5°	1151.1	1127.6	1117.5	1114.1
65°	865.0	861.6	841.5	838.1
67.5°	626.1	612.6	599.2	602.5
70°	440.9	420.8	420.8	414.0
72.5°	286.1	276.0	272.6	272.6
75°	178.4	178.4	171.6	185.1
77.5°	117.8	117.8	114.5	117.8
80°	70.7	70.7	70.7	67.3
82.5°	43.7	47.1	43.7	43.7
85°	23.6	26.9	20.2	30.3
87.5°	13.4	16.8	13.4	16.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)