

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: P249394

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249394
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: LSR8B150D010 EC8B150927 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12607.9 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

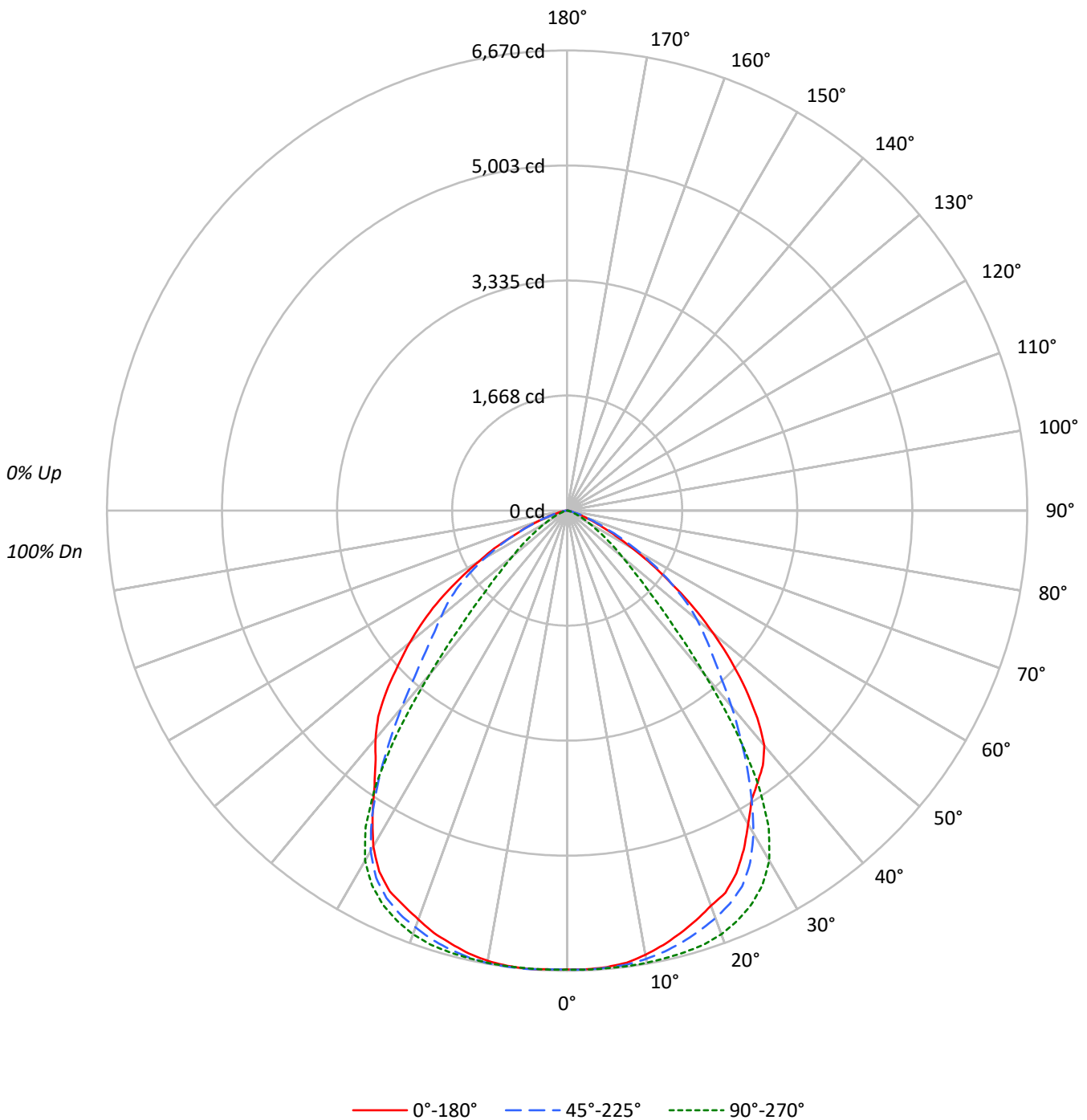
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	634.9	5.0
10°-20°	1843.7	14.6
20°-30°	2798.4	22.2
30°-40°	2939.2	23.3
40°-50°	2203.6	17.5
50°-60°	1413.9	11.2
60°-70°	604.8	4.8
70°-80°	142.9	1.1
80°-90°	26.6	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°	5277.0	41.9
0°-40°	8216.1	65.2
0°-60°	11833.6	93.9
0°-90°	12607.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12607.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6652	6652	6652	6652	6652	
5°	6641	6652	6659	6670	6666	631
15°	6342	6474	6624	6581	6499	1789
25°	5802	6006	6309	6195	6088	2651
35°	4813	4545	4817	4760	4867	3021
45°	3656	2989	1718	2903	3706	2800
55°	1850	1850	639	1928	2253	1678
65°	557	657	204	846	860	595
75°	86	100	29	172	168	125
85°	29	18	14	29	39	30
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°	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1
2.5°	6655.7	6662.9	6659.3	6659.3	6655.7	6659.3	6659.3	6666.5	6666.5	6659.3	6655.7
5°	6641.4	6648.6	6648.6	6641.4	6641.4	6659.3	6648.6	6655.7	6655.7	6652.1	6652.1
7.5°	6609.4	6609.4	6623.6	6613.0	6613.0	6623.6	6620.1	6627.2	6634.4	6638.0	6638.0
10°	6537.9	6545.0	6548.6	6548.6	6552.2	6562.9	6570.0	6584.4	6591.5	6598.6	6602.2
12.5°	6448.7	6459.3	6462.9	6459.3	6470.1	6484.3	6502.3	6520.0	6530.8	6545.0	6555.8
15°	6341.5	6341.5	6348.6	6359.4	6366.6	6388.0	6405.8	6427.2	6455.8	6473.7	6491.5
17.5°	6223.7	6230.9	6241.5	6241.5	6255.9	6291.4	6302.2	6334.4	6366.6	6384.4	6420.2
20°	6095.1	6102.2	6113.0	6120.2	6138.0	6166.6	6188.0	6216.5	6252.3	6284.5	6320.0
22.5°	5995.1	5981.0	5988.0	5995.1	6013.0	6038.1	6063.1	6098.7	6134.4	6166.6	6202.3
25°	5802.3	5805.9	5816.7	5823.8	5845.3	5866.7	5895.2	5938.0	5970.2	6005.9	6045.1
27.5°	5541.8	5545.2	5563.1	5563.1	5580.9	5616.7	5634.4	5670.2	5713.1	5748.8	5795.2
30°	5245.3	5252.4	5252.4	5266.8	5277.4	5295.4	5313.2	5348.9	5370.3	5402.5	5466.7
32.5°	4974.0	4981.0	4977.4	4974.0	4963.3	4959.7	4956.1	4963.3	4970.4	4981.0	5006.0
35°	4813.3	4795.4	4781.1	4756.2	4727.6	4691.9	4659.8	4616.9	4577.6	4545.4	4509.8
37.5°	4659.8	4656.2	4634.8	4599.0	4541.8	4477.6	4402.7	4309.8	4217.0	4116.9	4020.6
40°	4445.4	4434.8	4417.0	4366.9	4302.7	4224.2	4124.1	4009.8	3859.9	3706.3	3549.3
42.5°	4081.3	4084.9	4063.4	4024.1	3963.5	3888.4	3785.0	3660.0	3499.3	3317.2	3113.7
45°	3656.4	3656.4	3649.2	3617.1	3574.2	3513.5	3435.0	3331.5	3174.4	2988.7	2770.8
47.5°	3213.6	3217.2	3206.5	3199.4	3181.5	3142.2	3085.1	3006.6	2895.9	2717.2	2499.4
50°	2763.8	2763.8	2781.6	2778.0	2778.0	2763.8	2738.7	2692.2	2595.9	2453.1	2249.5
52.5°	2313.8	2321.0	2331.7	2346.0	2363.7	2392.3	2363.7	2342.4	2281.6	2170.9	1996.0
55°	1849.6	1856.8	1874.6	1899.6	1921.0	1949.6	1956.7	1956.7	1924.5	1849.6	1717.5
57.5°	1453.3	1442.6	1456.9	1478.2	1506.8	1535.4	1556.8	1581.9	1578.3	1528.2	1421.1
60°	1092.6	1096.2	1106.9	1128.4	1149.8	1174.7	1203.3	1224.8	1235.5	1210.5	1142.7
62.5°	796.3	796.3	810.6	831.9	842.6	878.4	896.2	907.0	917.7	914.1	871.2
65°	557.1	564.2	571.3	582.1	592.8	614.1	624.8	646.3	653.4	657.0	624.8
67.5°	392.8	382.0	389.2	396.3	407.0	421.4	442.8	442.8	453.5	453.5	432.0
70°	250.0	250.0	253.6	264.2	271.3	275.0	282.2	289.2	299.9	296.3	296.3
72.5°	167.8	164.2	167.8	171.5	175.0	185.6	185.6	189.2	196.4	200.0	185.6
75°	85.7	89.3	96.4	92.9	103.5	96.4	99.9	110.7	107.1	99.9	99.9
77.5°	71.4	71.4	71.4	67.8	74.9	74.9	71.4	78.5	74.9	74.9	71.4
80°	49.9	53.6	49.9	46.4	49.9	46.4	46.4	46.4	46.4	46.4	42.9
82.5°	39.3	32.2	35.8	32.2	35.8	35.8	32.2	28.6	28.6	32.2	28.6
85°	28.6	21.4	25.0	25.0	21.4	21.4	21.4	21.4	21.4	17.8	17.8
87.5°	17.8	10.8	10.8	10.8	14.3	14.3	14.3	10.8	14.3	14.3	7.2
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°	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1
2.5°	6662.9	6659.3	6666.5	6662.9	6662.9	6659.3	6662.9	6659.3	6666.5	6652.1	6655.7
5°	6662.9	6655.7	6659.3	6662.9	6666.5	6659.3	6659.3	6659.3	6666.5	6659.3	6662.9
7.5°	6648.6	6645.0	6655.7	6662.9	6659.3	6655.7	6662.9	6659.3	6666.5	6662.9	6670.0
10°	6620.1	6623.6	6630.8	6641.4	6645.0	6648.6	6655.7	6655.7	6666.5	6652.1	6659.3
12.5°	6577.2	6591.5	6609.4	6616.5	6630.8	6630.8	6638.0	6641.4	6648.6	6645.0	6655.7
15°	6523.7	6541.4	6562.9	6580.8	6598.6	6609.4	6620.1	6623.6	6634.4	6623.6	6627.2
17.5°	6459.3	6480.8	6512.8	6534.3	6562.9	6573.6	6587.9	6595.0	6605.8	6598.6	6602.2
20°	6370.1	6395.2	6430.7	6462.9	6480.8	6505.8	6523.7	6534.3	6541.4	6534.3	6537.9
22.5°	6245.1	6280.9	6327.2	6352.2	6388.0	6409.3	6413.0	6437.9	6455.8	6437.9	6445.1
25°	6098.7	6134.4	6170.2	6223.7	6255.9	6280.9	6305.8	6309.4	6327.2	6323.6	6320.0
27.5°	5855.8	5902.3	5963.0	6005.9	6048.7	6088.0	6116.6	6123.7	6141.6	6134.4	6138.0
30°	5523.8	5573.8	5631.0	5698.8	5759.6	5798.7	5834.5	5859.4	5877.3	5866.7	5863.0
32.5°	5052.5	5102.6	5163.2	5231.0	5302.5	5359.5	5402.5	5434.5	5456.0	5448.8	5431.0
35°	4513.4	4527.7	4566.9	4620.5	4681.1	4741.9	4781.1	4816.8	4841.8	4849.0	4849.0
37.5°	3959.9	3913.5	3885.0	3885.0	3920.6	3945.6	3981.3	4002.8	4042.0	4056.3	4067.0
40°	3424.3	3317.2	3217.2	3142.2	3092.3	3088.7	3088.7	3099.3	3135.0	3181.5	3224.4
42.5°	2945.8	2774.4	2620.9	2481.6	2381.6	2324.5	2299.5	2303.1	2331.7	2374.5	2445.9
45°	2563.8	2349.6	2156.7	1988.9	1853.2	1763.9	1721.0	1717.5	1738.9	1788.9	1867.5
47.5°	2267.4	2038.8	1821.0	1628.2	1481.9	1385.4	1335.4	1321.2	1335.4	1381.8	1474.6
50°	2021.1	1785.4	1560.4	1360.5	1203.3	1103.4	1056.9	1039.0	1056.9	1096.2	1189.0
52.5°	1792.5	1549.7	1339.0	1146.1	978.3	892.7	842.6	831.9	842.6	889.1	964.1
55°	1528.2	1321.2	1114.1	921.3	774.9	689.2	649.8	639.2	649.8	692.8	771.3
57.5°	1267.6	1089.0	907.0	731.9	607.1	532.0	496.4	482.1	507.0	535.6	628.4
60°	1024.8	882.0	728.4	574.9	471.4	403.4	374.8	371.4	378.4	414.2	478.5
62.5°	803.5	685.6	564.2	439.2	353.5	324.9	289.2	285.6	292.7	314.2	364.3
65°	578.5	503.6	410.6	321.3	253.6	214.2	200.0	203.5	210.6	225.0	271.3
67.5°	403.4	349.9	285.6	225.0	175.0	157.0	142.9	139.3	142.9	167.8	192.8
70°	271.3	239.2	192.8	171.5	121.4	96.4	99.9	89.3	103.5	103.5	125.0
72.5°	178.5	157.0	128.5	99.9	85.7	67.8	67.8	64.4	71.4	74.9	92.9
75°	92.9	71.4	71.4	49.9	35.8	17.8	32.2	28.6	25.0	28.6	35.8
77.5°	64.4	53.6	49.9	39.3	35.8	28.6	28.6	28.6	28.6	32.2	35.8
80°	39.3	39.3	28.6	25.0	21.4	17.8	21.4	21.4	21.4	21.4	25.0
82.5°	25.0	21.4	21.4	17.8	17.8	14.3	14.3	14.3	14.3	14.3	21.4
85°	21.4	14.3	14.3	10.8	14.3	25.0	10.8	14.3	14.3	14.3	10.8
87.5°	7.2	10.8	10.8	10.8	7.2	3.6	7.2	10.8	10.8	17.8	14.3
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°	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1	6652.1
2.5°	6662.9	6666.5	6666.5	6662.9	6662.9	6655.7	6670.0	6659.3	6662.9	6677.1	6666.5
5°	6670.0	6673.6	6673.6	6670.0	6670.0	6670.0	6673.6	6673.6	6670.0	6666.5	6673.6
7.5°	6684.3	6680.7	6680.7	6673.6	6673.6	6666.5	6673.6	6662.9	6670.0	6662.9	6673.6
10°	6666.5	6670.0	6666.5	6662.9	6662.9	6659.3	6659.3	6648.6	6652.1	6641.4	6648.6
12.5°	6655.7	6652.1	6652.1	6645.0	6638.0	6630.8	6627.2	6616.5	6616.5	6591.5	6602.2
15°	6627.2	6630.8	6620.1	6605.8	6598.6	6580.8	6573.6	6559.3	6545.0	6527.2	6530.8
17.5°	6602.2	6591.5	6577.2	6562.9	6534.3	6520.0	6505.8	6484.3	6477.2	6455.8	6448.7
20°	6527.2	6520.0	6502.3	6477.2	6459.3	6427.2	6413.0	6391.6	6373.7	6352.2	6341.5
22.5°	6430.7	6423.6	6402.2	6377.2	6348.6	6334.4	6320.0	6280.9	6263.0	6241.5	6237.9
25°	6309.4	6298.7	6277.3	6248.7	6234.4	6195.2	6180.9	6152.3	6145.2	6123.7	6120.2
27.5°	6123.7	6109.4	6084.4	6048.7	6023.7	5998.7	5984.4	5963.0	5956.0	5934.4	5930.9
30°	5845.3	5827.3	5777.3	5763.2	5720.2	5695.2	5695.2	5666.6	5670.2	5655.9	5655.9
32.5°	5406.1	5377.5	5338.1	5309.6	5281.0	5266.8	5266.8	5256.0	5263.2	5263.2	5270.3
35°	4824.0	4784.7	4763.2	4745.5	4745.5	4759.7	4802.5	4813.3	4834.7	4852.6	4866.9
37.5°	4077.7	4074.2	4099.2	4120.5	4174.1	4234.8	4309.8	4374.1	4434.8	4477.6	4520.5
40°	3270.7	3360.0	3431.4	3531.5	3613.5	3731.3	3867.1	3977.8	4081.3	4156.3	4234.8
42.5°	2553.0	2667.3	2817.3	2963.6	3110.1	3270.7	3449.4	3602.8	3738.5	3842.0	3924.1
45°	1988.9	2145.9	2328.1	2513.8	2703.0	2903.0	3088.7	3245.7	3388.6	3495.7	3577.8
47.5°	1603.2	1774.7	1981.7	2185.3	2399.5	2610.1	2817.3	2953.0	3070.8	3156.4	3231.5
50°	1324.7	1506.8	1724.6	1956.7	2170.9	2381.6	2560.2	2692.2	2788.8	2863.7	2910.0
52.5°	1106.9	1299.7	1531.8	1763.9	1978.1	2170.9	2331.7	2431.7	2510.2	2563.8	2606.5
55°	914.1	1099.8	1317.6	1535.4	1746.1	1928.1	2060.2	2135.2	2195.9	2228.1	2253.0
57.5°	746.3	917.7	1117.6	1317.6	1499.7	1649.7	1753.2	1828.2	1856.8	1881.8	1878.2
60°	585.7	746.3	928.4	1099.8	1256.9	1378.2	1453.3	1496.1	1517.5	1528.2	1521.1
62.5°	460.6	607.1	746.3	896.2	1010.5	1114.1	1185.5	1185.5	1196.2	1199.7	1210.5
65°	342.8	453.5	574.9	685.6	778.4	846.2	885.6	896.2	910.6	907.0	899.8
67.5°	253.6	335.7	424.9	507.0	571.3	614.1	642.7	667.8	664.2	657.0	653.4
70°	175.0	228.6	307.1	357.1	403.4	446.4	453.5	457.0	460.6	464.2	457.0
72.5°	121.4	160.6	203.5	246.4	275.0	292.7	310.7	314.2	314.2	314.2	310.7
75°	60.8	82.1	121.4	139.3	164.2	171.5	185.6	185.6	196.4	182.0	178.5
77.5°	53.6	64.4	85.7	99.9	110.7	121.4	125.0	135.7	132.1	125.0	128.5
80°	32.2	39.3	53.6	60.8	74.9	78.5	82.1	85.7	82.1	85.7	85.7
82.5°	25.0	28.6	35.8	35.8	46.4	46.4	49.9	49.9	53.6	53.6	53.6
85°	14.3	25.0	21.4	42.9	28.6	28.6	35.8	42.9	35.8	35.8	42.9
87.5°	14.3	14.3	10.8	14.3	14.3	14.3	17.8	21.4	21.4	25.0	21.4
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: P249394

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	6652.1	6652.1	6652.1	6652.1
2.5°	6662.9	6670.0	6659.3	6655.7
5°	6673.6	6673.6	6666.5	6666.5
7.5°	6673.6	6673.6	6662.9	6655.7
10°	6645.0	6645.0	6634.4	6627.2
12.5°	6591.5	6591.5	6587.9	6577.2
15°	6523.7	6523.7	6509.4	6498.7
17.5°	6430.7	6437.9	6420.2	6420.2
20°	6330.8	6327.2	6313.0	6305.8
22.5°	6227.3	6220.1	6216.5	6195.2
25°	6116.6	6109.4	6098.7	6088.0
27.5°	5927.4	5923.8	5913.0	5898.8
30°	5638.0	5634.4	5620.3	5620.3
32.5°	5263.2	5259.6	5245.3	5248.9
35°	4874.0	4888.2	4881.2	4866.9
37.5°	4549.0	4559.7	4566.9	4559.7
40°	4277.7	4309.8	4313.4	4320.6
42.5°	3988.5	4031.3	4045.6	4052.7
45°	3642.1	3681.3	3713.5	3706.3
47.5°	3288.6	3317.2	3345.8	3324.3
50°	2949.4	2967.2	2978.0	2978.0
52.5°	2628.0	2628.0	2624.5	2628.0
55°	2260.2	2260.2	2246.0	2253.0
57.5°	1874.6	1881.8	1871.0	1853.2
60°	1517.5	1499.7	1492.5	1481.9
62.5°	1181.9	1181.9	1157.0	1189.0
65°	885.6	874.8	864.1	860.5
67.5°	642.7	639.2	628.4	624.8
70°	453.5	439.2	435.6	428.5
72.5°	303.5	303.5	296.3	296.3
75°	185.6	167.8	164.2	167.8
77.5°	128.5	125.0	125.0	121.4
80°	85.7	82.1	89.3	78.5
82.5°	53.6	57.2	53.6	57.2
85°	35.8	42.9	39.3	39.3
87.5°	21.4	21.4	21.4	21.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)