

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: P248452

Luminaire Tested: **LSR8B60D010 EC8B60835 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248452
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: LSR8B60D010 EC8B60835 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6372.0 lumens
Efficiency: N/A
Efficacy: 107.1 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

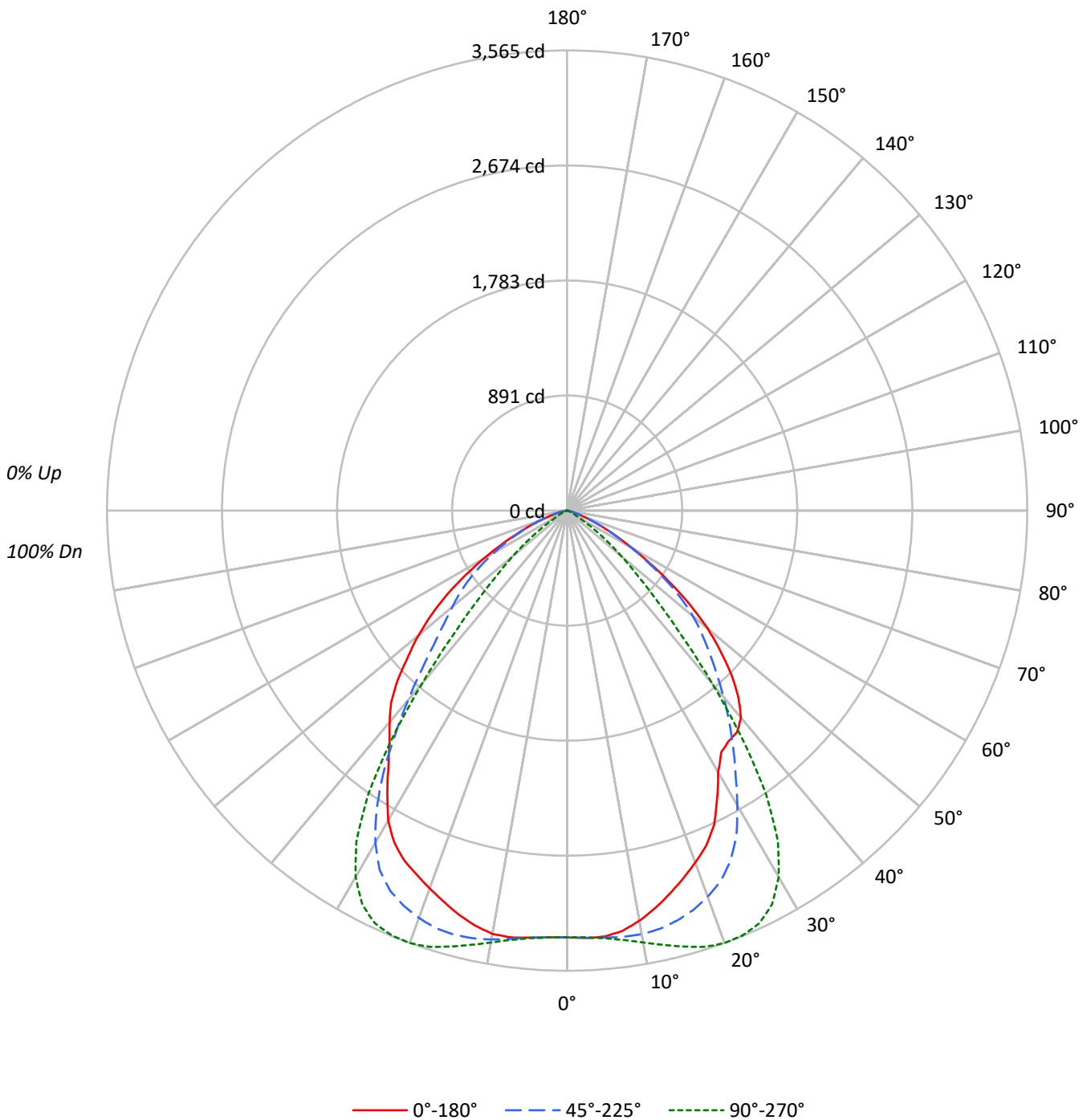
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	101933	101933	101933
5°	102539	102919	102811
10°	101031	106361	104275
15°	98077	111632	103456
20°	95233	116996	102200
25°	91576	119993	101725
30°	83341	116701	98709
35°	82098	101120	90817
40°	84332	70134	86095
45°	78505	42388	80952
50°	68093	26179	72137
55°	52256	13677	61218
60°	35604	5520	46205
65°	22145	2816	31878
70°	12018	1740	19456
75°	6267	834	11497
80°	2806	941	6233
85°	1875	637	5590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	5.0
10°-20°	941.7	14.8
20°-30°	1436.7	22.5
30°-40°	1499.2	23.5
40°-50°	1126.1	17.7
50°-60°	692.9	10.9
60°-70°	282.0	4.4
70°-80°	66.4	1.0
80°-90°	9.2	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°	2696.3	42.3
0°-40°	4195.5	65.8
0°-60°	6014.4	94.4
0°-90°	6372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6372.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3306	3306	3306	3306	3306	
5°	3313	3321	3325	3321	3321	313
15°	3072	3288	3497	3400	3241	865
25°	2692	2993	3527	3248	2990	1224
35°	2181	2242	2686	2483	2412	1377
45°	1800	1558	972	1451	1856	1373
55°	972	923	254	923	1139	874
65°	304	307	39	412	437	317
75°	53	53	7	93	96	63
85°	5	5	2	12	16	7
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°	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6
2.5°	3314.4	3309.1	3314.4	3314.4	3316.1	3312.6	3314.4	3316.1	3312.6	3312.6	3312.6
5°	3312.6	3309.1	3312.6	3310.8	3314.4	3314.4	3317.9	3317.9	3321.4	3321.4	3326.6
7.5°	3284.5	3277.5	3284.5	3289.8	3293.3	3300.3	3309.1	3316.1	3323.1	3330.2	3338.9
10°	3226.6	3226.6	3231.9	3242.4	3252.9	3265.2	3281.0	3298.6	3316.1	3331.9	3347.7
12.5°	3154.7	3149.4	3159.9	3174.0	3189.8	3209.1	3233.7	3260.0	3288.1	3319.6	3344.2
15°	3072.2	3067.0	3079.2	3093.3	3112.6	3140.7	3170.5	3205.6	3245.9	3288.1	3328.4
17.5°	2988.0	2986.2	2998.5	3017.8	3033.6	3063.4	3102.1	3144.1	3189.8	3245.9	3298.6
20°	2902.1	2900.3	2912.6	2928.4	2949.4	2977.5	3016.1	3065.2	3119.6	3182.8	3244.2
22.5°	2812.5	2814.3	2824.8	2842.4	2859.9	2889.7	2930.1	2979.2	3038.9	3107.3	3175.7
25°	2691.5	2682.7	2696.8	2714.3	2744.1	2768.7	2807.3	2859.9	2921.3	2993.3	3074.0
27.5°	2516.0	2514.3	2526.6	2542.3	2568.7	2598.5	2640.6	2695.0	2759.9	2838.9	2917.8
30°	2340.6	2344.1	2349.4	2365.2	2382.7	2412.5	2454.6	2500.3	2561.7	2637.1	2721.3
32.5°	2221.3	2221.3	2228.3	2238.8	2251.1	2266.9	2296.7	2330.0	2377.4	2430.1	2491.5
35°	2180.9	2173.9	2180.9	2182.7	2184.4	2187.9	2193.2	2203.7	2219.5	2242.3	2265.1
37.5°	2163.4	2158.1	2158.1	2151.1	2142.3	2131.8	2117.7	2102.0	2084.4	2061.6	2044.1
40°	2095.0	2091.4	2087.9	2080.9	2061.6	2040.6	2017.7	1980.9	1940.5	1884.4	1828.3
42.5°	1963.4	1959.8	1958.1	1944.1	1926.5	1901.9	1875.6	1837.0	1786.1	1714.2	1633.5
45°	1800.2	1793.1	1787.9	1775.6	1763.3	1742.3	1717.7	1682.6	1631.7	1558.1	1461.5
47.5°	1610.7	1607.2	1605.4	1600.2	1587.9	1575.6	1559.8	1531.7	1486.1	1415.9	1315.9
50°	1419.4	1412.4	1415.9	1414.2	1408.9	1400.2	1389.6	1370.3	1335.2	1272.0	1180.8
52.5°	1200.1	1200.1	1198.4	1203.6	1205.4	1203.6	1205.4	1184.3	1154.5	1107.1	1029.9
55°	972.0	972.0	977.3	984.3	991.3	993.1	991.3	982.6	961.5	922.9	854.5
57.5°	758.0	754.5	765.0	775.5	782.5	789.5	784.3	777.3	765.0	733.4	680.8
60°	577.3	577.3	584.3	591.3	598.3	605.3	603.6	601.8	591.3	570.2	528.1
62.5°	424.6	426.3	426.3	431.6	438.6	445.7	450.9	445.7	440.4	426.3	398.3
65°	303.5	301.8	303.5	308.8	314.1	321.1	324.6	322.8	317.6	307.0	286.0
67.5°	203.5	201.8	208.8	210.5	214.1	221.1	219.3	221.1	219.3	210.5	193.0
70°	133.3	129.8	133.3	131.6	136.9	138.6	142.1	143.9	142.1	136.9	131.6
72.5°	82.5	80.7	82.5	84.2	86.0	87.7	91.2	91.2	89.5	86.0	79.0
75°	52.6	47.4	49.1	45.6	49.1	49.1	52.6	54.4	52.6	52.6	49.1
77.5°	31.6	31.6	31.6	31.6	31.6	31.6	31.6	33.4	35.1	31.6	29.8
80°	15.8	15.8	17.6	17.6	17.6	19.3	17.6	17.6	17.6	19.3	14.0
82.5°	12.3	10.5	10.5	10.5	12.3	10.5	10.5	10.5	10.5	10.5	10.5
85°	5.3	7.0	5.3	3.5	5.3	5.3	7.0	5.3	5.3	5.3	7.0
87.5°	1.8	1.8	0.0	0.0	0.0	1.8	0.0	1.8	1.8	3.5	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°	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6
2.5°	3314.4	3310.8	3310.8	3309.1	3312.6	3309.1	3310.8	3309.1	3309.1	3312.6	3309.1
5°	3326.6	3328.4	3324.9	3323.1	3328.4	3328.4	3328.4	3324.9	3324.9	3326.6	3324.9
7.5°	3344.2	3347.7	3349.4	3351.2	3354.7	3356.5	3356.5	3354.7	3353.0	3358.2	3351.2
10°	3363.5	3368.8	3379.3	3384.6	3393.3	3393.3	3396.8	3396.8	3393.3	3396.8	3395.1
12.5°	3356.5	3388.0	3405.6	3417.9	3430.2	3440.7	3444.2	3446.0	3444.2	3451.2	3444.2
15°	3368.8	3395.1	3423.2	3444.2	3467.0	3479.3	3482.8	3496.8	3500.3	3502.1	3491.6
17.5°	3349.4	3396.8	3426.6	3458.2	3491.6	3514.4	3535.4	3544.2	3546.0	3549.5	3535.4
20°	3305.6	3358.2	3403.8	3449.5	3488.1	3523.1	3540.7	3565.3	3558.3	3572.3	3553.0
22.5°	3245.9	3305.6	3363.5	3423.2	3463.5	3505.6	3542.5	3560.0	3568.8	3568.8	3547.7
25°	3151.2	3221.4	3284.5	3345.9	3407.4	3458.2	3500.3	3526.7	3531.9	3530.2	3505.6
27.5°	3003.8	3079.2	3152.9	3223.1	3298.6	3358.2	3407.4	3438.9	3447.7	3447.7	3421.4
30°	2800.3	2881.0	2952.9	3037.1	3114.4	3181.0	3249.5	3277.5	3293.3	3293.3	3263.5
32.5°	2558.1	2626.6	2693.2	2775.7	2859.9	2935.4	3000.3	3038.9	3058.2	3056.4	3030.1
35°	2295.0	2328.3	2379.2	2440.6	2516.0	2586.2	2649.4	2686.2	2719.6	2717.8	2693.2
37.5°	2031.8	2023.0	2028.3	2051.1	2098.4	2147.6	2196.7	2231.8	2259.9	2272.2	2266.9
40°	1773.9	1728.2	1684.4	1668.6	1672.1	1689.6	1716.0	1742.3	1773.9	1789.7	1796.7
42.5°	1542.3	1465.1	1387.8	1330.0	1296.6	1286.1	1298.4	1307.1	1326.4	1349.2	1372.1
45°	1356.3	1252.8	1151.0	1061.5	1005.4	972.0	965.0	972.0	982.6	1005.4	1035.2
47.5°	1203.6	1082.6	968.5	868.5	786.0	742.2	729.9	726.4	736.9	758.0	798.3
50°	1068.5	947.4	821.1	705.3	619.4	570.2	552.7	545.7	557.9	573.7	610.6
52.5°	921.1	801.8	672.0	559.7	470.2	419.4	400.0	389.5	396.5	417.6	454.4
55°	761.5	650.9	533.4	417.6	331.6	284.2	261.4	254.4	261.4	284.2	321.1
57.5°	601.8	508.8	410.6	301.8	224.6	177.2	154.4	147.4	166.7	175.5	214.1
60°	470.2	394.8	310.6	221.1	154.4	117.5	94.7	89.5	98.3	114.0	145.6
62.5°	352.7	305.3	238.6	157.9	114.0	75.4	63.2	57.9	63.2	75.4	100.0
65°	256.2	219.3	166.7	115.8	77.2	56.2	42.1	38.6	43.9	52.6	73.7
67.5°	175.5	147.4	115.8	80.7	52.6	35.1	29.8	29.8	31.6	38.6	54.4
70°	114.0	96.5	73.7	52.6	35.1	26.3	22.8	19.3	22.8	28.1	36.8
72.5°	72.0	61.4	47.4	36.8	26.3	19.3	15.8	14.0	17.6	21.0	28.1
75°	43.9	33.4	24.6	19.3	14.0	14.0	14.0	7.0	8.8	14.0	17.6
77.5°	26.3	22.8	19.3	15.8	12.3	7.0	7.0	7.0	8.8	10.5	15.8
80°	14.0	12.3	8.8	8.8	7.0	5.3	7.0	5.3	3.5	8.8	10.5
82.5°	8.8	7.0	7.0	7.0	8.8	3.5	5.3	3.5	5.3	7.0	5.3
85°	5.3	5.3	5.3	3.5	8.8	3.5	3.5	1.8	1.8	3.5	3.5
87.5°	0.0	1.8	1.8	0.0	1.8	0.0	1.8	1.8	1.8	1.8	1.8
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°	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6	3305.6
2.5°	3310.8	3309.1	3310.8	3309.1	3309.1	3309.1	3310.8	3310.8	3309.1	3309.1	3312.6
5°	3324.9	3324.9	3324.9	3323.1	3321.4	3321.4	3324.9	3324.9	3319.6	3324.9	3324.9
7.5°	3354.7	3349.4	3354.7	3347.7	3344.2	3345.9	3347.7	3344.2	3340.7	3342.4	3342.4
10°	3393.3	3388.0	3388.0	3382.8	3377.5	3374.0	3370.5	3361.7	3353.0	3351.2	3344.2
12.5°	3438.9	3430.2	3424.9	3414.4	3405.6	3393.3	3382.8	3368.8	3351.2	3338.9	3326.6
15°	3484.5	3470.5	3458.2	3440.7	3421.4	3400.3	3377.5	3354.7	3326.6	3302.1	3281.0
17.5°	3521.4	3502.1	3479.3	3451.2	3423.2	3391.6	3358.2	3324.9	3284.5	3252.9	3228.4
20°	3533.7	3505.6	3475.8	3438.9	3402.1	3358.2	3316.1	3272.3	3226.6	3193.3	3165.2
22.5°	3517.9	3484.5	3447.7	3409.1	3360.0	3312.6	3263.5	3212.6	3172.2	3126.6	3100.3
25°	3474.0	3433.7	3393.3	3347.7	3300.3	3247.7	3195.1	3142.4	3093.3	3068.7	3035.4
27.5°	3384.6	3340.7	3296.8	3249.5	3195.1	3142.4	3088.0	3037.1	2995.0	2961.7	2942.4
30°	3226.6	3175.7	3124.9	3074.0	3026.6	2972.2	2921.3	2879.2	2837.1	2810.8	2791.5
32.5°	2984.5	2938.9	2888.0	2838.9	2795.0	2749.4	2707.3	2670.4	2640.6	2623.0	2609.0
35°	2658.2	2612.5	2573.9	2538.9	2502.0	2482.7	2456.4	2435.3	2423.0	2416.0	2414.3
37.5°	2247.6	2221.3	2209.0	2202.0	2194.9	2189.7	2193.2	2202.0	2209.0	2221.3	2235.3
40°	1808.9	1831.7	1838.8	1863.3	1886.1	1916.0	1949.3	1987.9	2019.5	2059.8	2087.9
42.5°	1408.9	1451.0	1500.1	1552.8	1608.9	1663.3	1730.0	1791.4	1847.5	1898.4	1942.3
45°	1082.6	1147.5	1221.2	1296.6	1372.1	1451.0	1531.7	1607.2	1673.8	1728.2	1773.9
47.5°	843.9	915.9	1010.6	1103.6	1194.9	1287.8	1377.3	1456.3	1512.4	1565.1	1605.4
50°	668.5	751.0	854.5	961.5	1061.5	1159.7	1254.5	1328.2	1384.4	1426.5	1456.3
52.5°	517.6	615.8	721.1	833.4	940.4	1047.5	1135.2	1203.6	1249.3	1286.1	1308.9
55°	386.0	482.5	594.8	710.6	819.4	922.9	1005.4	1065.0	1105.4	1126.4	1138.7
57.5°	279.0	366.7	479.0	594.8	693.0	791.3	858.0	912.4	935.2	947.4	952.7
60°	203.5	284.2	384.2	484.3	577.3	656.2	714.1	751.0	768.5	775.5	773.7
62.5°	149.1	219.3	305.3	389.5	464.9	529.9	575.5	600.0	608.8	612.3	607.1
65°	114.0	168.4	242.1	307.0	365.0	412.3	445.7	461.5	466.7	464.9	461.5
67.5°	84.2	126.3	180.7	229.9	272.0	308.8	326.4	340.4	343.9	338.6	333.4
70°	59.7	93.0	131.6	164.9	196.5	217.6	236.9	238.6	238.6	236.9	233.4
72.5°	42.1	64.9	89.5	112.3	131.6	147.4	154.4	159.7	157.9	156.1	152.7
75°	28.1	40.4	64.9	70.2	87.7	93.0	100.0	100.0	101.7	96.5	96.5
77.5°	17.6	28.1	38.6	45.6	52.6	59.7	63.2	63.2	64.9	63.2	63.2
80°	10.5	17.6	21.0	31.6	31.6	36.8	38.6	40.4	36.8	42.1	36.8
82.5°	7.0	10.5	15.8	15.8	19.3	22.8	22.8	24.6	24.6	22.8	22.8
85°	5.3	7.0	8.8	10.5	10.5	12.3	10.5	10.5	12.3	14.0	12.3
87.5°	1.8	3.5	1.8	3.5	3.5	7.0	5.3	5.3	5.3	7.0	7.0
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: P248452

CATALOG NUMBER: LSR8B60D010 EC8B60835 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3305.6	3305.6	3305.6	3305.6
2.5°	3309.1	3310.8	3309.1	3309.1
5°	3324.9	3323.1	3324.9	3321.4
7.5°	3337.2	3337.2	3335.4	3335.4
10°	3337.2	3330.2	3330.2	3330.2
12.5°	3310.8	3302.1	3296.8	3293.3
15°	3265.2	3249.5	3242.4	3240.7
17.5°	3205.6	3191.5	3182.8	3177.5
20°	3137.1	3123.1	3112.6	3114.4
22.5°	3077.5	3061.7	3054.7	3051.2
25°	3017.8	2998.5	2993.3	2989.8
27.5°	2921.3	2910.8	2905.5	2900.3
30°	2774.0	2768.7	2759.9	2772.2
32.5°	2603.8	2595.0	2588.0	2593.3
35°	2416.0	2410.8	2416.0	2412.5
37.5°	2244.1	2249.3	2256.4	2259.9
40°	2109.0	2128.3	2135.3	2138.8
42.5°	1973.9	1996.7	2010.7	2019.5
45°	1807.2	1830.0	1845.8	1856.3
47.5°	1635.2	1654.6	1670.3	1668.6
50°	1479.1	1489.6	1496.6	1503.7
52.5°	1321.2	1321.2	1322.9	1322.9
55°	1142.2	1138.7	1136.9	1138.7
57.5°	945.7	942.2	940.4	935.2
60°	766.7	756.2	749.2	749.2
62.5°	600.0	587.8	582.5	580.8
65°	450.9	449.1	438.6	436.9
67.5°	326.4	319.3	312.3	314.1
70°	229.9	219.3	219.3	215.8
72.5°	149.1	143.9	142.1	142.1
75°	93.0	93.0	89.5	96.5
77.5°	61.4	61.4	59.7	61.4
80°	36.8	36.8	36.8	35.1
82.5°	22.8	24.6	22.8	22.8
85°	12.3	14.0	10.5	15.8
87.5°	7.0	8.8	7.0	8.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)