

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: P249174

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249174
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: LSR8B80D010 EC8B80927 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6648.7 lumens
Efficiency: N/A
Efficacy: 89.4 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

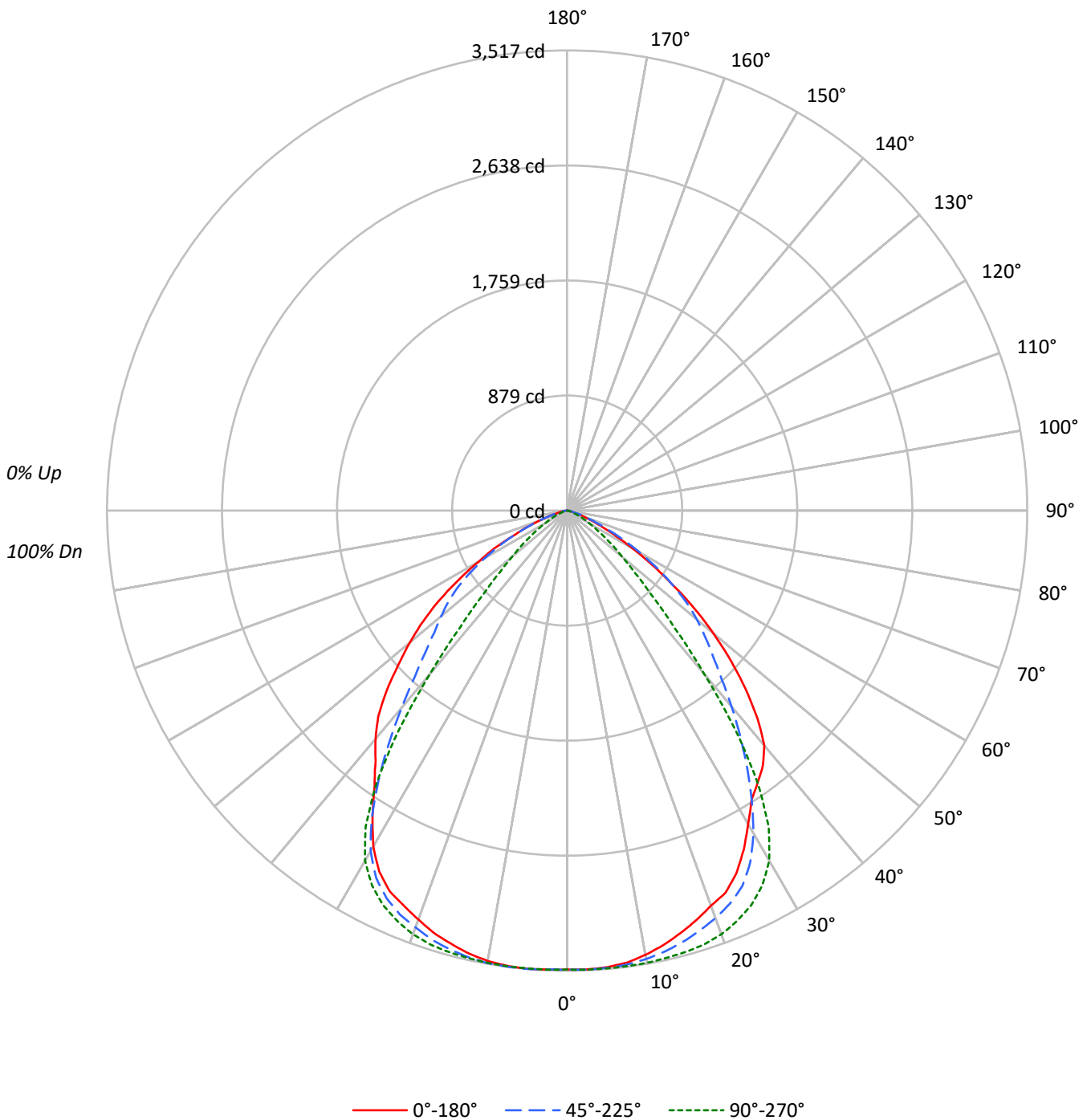
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	334.8	5.0
10°-20°	972.3	14.6
20°-30°	1475.7	22.2
30°-40°	1550.0	23.3
40°-50°	1162.0	17.5
50°-60°	745.6	11.2
60°-70°	319.0	4.8
70°-80°	75.4	1.1
80°-90°	14.0	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°	2782.8	41.9
0°-40°	4332.8	65.2
0°-60°	6240.4	93.9
0°-90°	6648.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6648.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3508	3508	3508	3508	3508	
5°	3502	3508	3512	3517	3516	333
15°	3344	3414	3493	3470	3427	943
25°	3060	3167	3327	3267	3210	1398
35°	2538	2397	2540	2510	2567	1593
45°	1928	1576	906	1531	1955	1477
55°	975	975	337	1017	1188	885
65°	294	346	107	446	454	314
75°	45	53	15	90	88	66
85°	15	10	8	15	21	16
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°	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0
2.5°	3509.9	3513.7	3511.8	3511.8	3509.9	3511.8	3511.8	3515.5	3515.5	3511.8	3509.9
5°	3502.4	3506.2	3506.2	3502.4	3502.4	3511.8	3506.2	3509.9	3509.9	3508.0	3508.0
7.5°	3485.5	3485.5	3492.9	3487.3	3487.3	3492.9	3491.1	3494.8	3498.6	3500.6	3500.6
10°	3447.8	3451.5	3453.4	3453.4	3455.3	3461.0	3464.7	3472.3	3476.0	3479.7	3481.6
12.5°	3400.6	3406.3	3408.2	3406.3	3412.0	3419.6	3429.0	3438.3	3444.0	3451.5	3457.2
15°	3344.2	3344.2	3348.0	3353.6	3357.4	3368.7	3378.0	3389.4	3404.5	3413.9	3423.3
17.5°	3282.1	3285.8	3291.4	3291.4	3299.1	3317.8	3323.5	3340.5	3357.4	3366.8	3385.7
20°	3214.2	3218.1	3223.7	3227.5	3236.8	3251.9	3263.2	3278.2	3297.2	3314.1	3332.9
22.5°	3161.6	3154.0	3157.8	3161.6	3170.9	3184.2	3197.4	3216.2	3234.9	3251.9	3270.8
25°	3059.9	3061.7	3067.4	3071.1	3082.5	3093.8	3108.8	3131.4	3148.3	3167.2	3187.9
27.5°	2922.4	2924.3	2933.7	2933.7	2943.1	2961.9	2971.4	2990.1	3012.9	3031.6	3056.1
30°	2766.2	2769.9	2769.9	2777.4	2783.0	2792.5	2801.9	2820.7	2832.0	2849.0	2882.9
32.5°	2623.0	2626.8	2624.8	2623.0	2617.3	2615.5	2613.6	2617.3	2621.1	2626.8	2639.9
35°	2538.3	2528.9	2521.4	2508.2	2493.1	2474.2	2457.3	2434.7	2414.0	2397.0	2378.2
37.5°	2457.3	2455.4	2444.2	2425.3	2395.1	2361.3	2321.8	2272.7	2223.8	2171.1	2120.3
40°	2344.3	2338.6	2329.3	2302.9	2269.0	2227.6	2174.8	2114.5	2035.5	1954.6	1871.7
42.5°	2152.2	2154.2	2142.9	2122.1	2090.1	2050.5	1996.0	1930.0	1845.3	1749.3	1641.9
45°	1928.1	1928.1	1924.4	1907.4	1884.8	1852.9	1811.5	1756.8	1674.0	1576.0	1461.1
47.5°	1694.7	1696.6	1690.9	1687.2	1677.7	1657.0	1626.9	1585.5	1527.1	1432.9	1318.0
50°	1457.4	1457.4	1466.9	1465.0	1465.0	1457.4	1444.3	1419.8	1368.9	1293.6	1186.3
52.5°	1220.2	1224.0	1229.6	1237.2	1246.5	1261.6	1246.5	1235.2	1203.2	1144.8	1052.6
55°	975.4	979.2	988.5	1001.7	1013.1	1028.1	1031.9	1031.9	1014.9	975.4	905.7
57.5°	766.4	760.7	768.3	779.5	794.6	809.7	821.0	834.2	832.3	805.9	749.5
60°	576.2	578.1	583.8	595.0	606.4	619.5	634.6	645.9	651.5	638.3	602.6
62.5°	420.0	420.0	427.4	438.8	444.4	463.3	472.6	478.2	483.9	482.1	459.4
65°	293.7	297.4	301.3	306.9	312.5	323.9	329.5	340.8	344.6	346.5	329.5
67.5°	207.1	201.5	205.3	209.0	214.6	222.2	233.6	233.6	239.2	239.2	227.8
70°	131.8	131.8	133.6	139.3	143.1	145.0	148.7	152.5	158.2	156.3	156.3
72.5°	88.5	86.6	88.5	90.4	92.2	97.9	97.9	99.8	103.6	105.4	97.9
75°	45.2	47.1	50.8	48.9	54.6	50.8	52.8	58.4	56.5	52.8	52.8
77.5°	37.7	37.7	37.7	35.8	39.5	39.5	37.7	41.4	39.5	39.5	37.7
80°	26.3	28.2	26.3	24.4	26.3	24.4	24.4	24.4	24.4	24.4	22.6
82.5°	20.7	17.0	18.8	17.0	18.8	18.8	17.0	15.1	15.1	17.0	15.1
85°	15.1	11.2	13.2	13.2	11.2	11.2	11.2	11.2	11.2	9.5	9.5
87.5°	9.5	5.6	5.6	5.6	7.5	7.5	7.5	5.6	7.5	7.5	3.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0
2.5°	3513.7	3511.8	3515.5	3513.7	3513.7	3511.8	3513.7	3511.8	3515.5	3508.0	3509.9
5°	3513.7	3509.9	3511.8	3513.7	3515.5	3511.8	3511.8	3511.8	3515.5	3511.8	3513.7
7.5°	3506.2	3504.3	3509.9	3513.7	3511.8	3509.9	3513.7	3511.8	3515.5	3513.7	3517.4
10°	3491.1	3492.9	3496.7	3502.4	3504.3	3506.2	3509.9	3509.9	3515.5	3508.0	3511.8
12.5°	3468.5	3476.0	3485.5	3489.2	3496.7	3496.7	3500.6	3502.4	3506.2	3504.3	3509.9
15°	3440.2	3449.6	3461.0	3470.4	3479.7	3485.5	3491.1	3492.9	3498.6	3492.9	3494.8
17.5°	3406.3	3417.6	3434.6	3445.9	3461.0	3466.6	3474.1	3477.8	3483.6	3479.7	3481.6
20°	3359.2	3372.4	3391.3	3408.2	3417.6	3430.8	3440.2	3445.9	3449.6	3445.9	3447.8
22.5°	3293.3	3312.2	3336.6	3349.8	3368.7	3380.0	3381.9	3395.0	3404.5	3395.0	3398.8
25°	3216.2	3234.9	3253.8	3282.1	3299.1	3312.2	3325.4	3327.3	3336.6	3334.7	3332.9
27.5°	3088.1	3112.6	3144.6	3167.2	3189.8	3210.5	3225.6	3229.3	3238.8	3234.9	3236.8
30°	2913.0	2939.4	2969.5	3005.2	3037.3	3058.0	3076.8	3090.0	3099.4	3093.8	3091.8
32.5°	2664.5	2690.8	2722.8	2758.6	2796.3	2826.3	2849.0	2865.9	2877.2	2873.5	2864.0
35°	2380.2	2387.6	2408.4	2436.6	2468.6	2500.6	2521.4	2540.1	2553.3	2557.1	2557.1
37.5°	2088.2	2063.8	2048.7	2048.7	2067.5	2080.7	2099.6	2110.8	2131.5	2139.1	2144.7
40°	1805.7	1749.3	1696.6	1657.0	1630.7	1628.8	1628.8	1634.4	1653.3	1677.7	1700.3
42.5°	1553.5	1463.1	1382.2	1308.7	1256.0	1225.8	1212.6	1214.6	1229.6	1252.2	1289.8
45°	1352.0	1239.0	1137.4	1048.8	977.3	930.2	907.6	905.7	917.0	943.3	984.8
47.5°	1195.8	1075.2	960.3	858.6	781.4	730.6	704.2	696.7	704.2	728.7	777.7
50°	1065.8	941.5	822.8	717.4	634.6	581.8	557.3	548.0	557.3	578.1	627.1
52.5°	945.2	817.2	706.2	604.5	515.9	470.7	444.4	438.8	444.4	468.9	508.4
55°	805.9	696.7	587.5	485.8	408.6	363.4	342.7	337.0	342.7	365.3	406.7
57.5°	668.5	574.3	478.2	386.0	320.2	280.6	261.8	254.1	267.4	282.5	331.4
60°	540.4	465.1	384.1	303.2	248.5	212.7	197.7	195.9	199.6	218.5	252.3
62.5°	423.7	361.6	297.4	231.6	186.4	171.3	152.5	150.6	154.4	165.7	192.0
65°	305.1	265.5	216.6	169.4	133.6	113.0	105.4	107.3	111.0	118.7	143.1
67.5°	212.7	184.5	150.6	118.7	92.2	82.8	75.4	73.5	75.4	88.5	101.7
70°	143.1	126.1	101.7	90.4	64.0	50.8	52.8	47.1	54.6	54.6	65.9
72.5°	94.2	82.8	67.7	52.8	45.2	35.8	35.8	33.9	37.7	39.5	48.9
75°	48.9	37.7	37.7	26.3	18.8	9.5	17.0	15.1	13.2	15.1	18.8
77.5°	33.9	28.2	26.3	20.7	18.8	15.1	15.1	15.1	15.1	17.0	18.8
80°	20.7	20.7	15.1	13.2	11.2	9.5	11.2	11.2	11.2	11.2	13.2
82.5°	13.2	11.2	11.2	9.5	9.5	7.5	7.5	7.5	7.5	7.5	11.2
85°	11.2	7.5	7.5	5.6	7.5	13.2	5.6	7.5	7.5	7.5	5.6
87.5°	3.8	5.6	5.6	5.6	3.8	1.9	3.8	5.6	5.6	9.5	7.5
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°	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0
2.5°	3513.7	3515.5	3515.5	3513.7	3513.7	3509.9	3517.4	3511.8	3513.7	3521.1	3515.5
5°	3517.4	3519.3	3519.3	3517.4	3517.4	3517.4	3519.3	3519.3	3517.4	3515.5	3519.3
7.5°	3525.0	3523.0	3523.0	3519.3	3519.3	3515.5	3519.3	3513.7	3517.4	3513.7	3519.3
10°	3515.5	3517.4	3515.5	3513.7	3513.7	3511.8	3511.8	3506.2	3508.0	3502.4	3506.2
12.5°	3509.9	3508.0	3508.0	3504.3	3500.6	3496.7	3494.8	3489.2	3489.2	3476.0	3481.6
15°	3494.8	3496.7	3491.1	3483.6	3479.7	3470.4	3466.6	3459.0	3451.5	3442.2	3444.0
17.5°	3481.6	3476.0	3468.5	3461.0	3445.9	3438.3	3430.8	3419.6	3415.7	3404.5	3400.6
20°	3442.2	3438.3	3429.0	3415.7	3406.3	3389.4	3381.9	3370.6	3361.2	3349.8	3344.2
22.5°	3391.3	3387.5	3376.2	3363.0	3348.0	3340.5	3332.9	3312.2	3302.8	3291.4	3289.6
25°	3327.3	3321.6	3310.3	3295.2	3287.7	3267.0	3259.5	3244.4	3240.7	3229.3	3227.5
27.5°	3229.3	3221.8	3208.6	3189.8	3176.5	3163.4	3156.0	3144.6	3140.9	3129.5	3127.7
30°	3082.5	3073.0	3046.7	3039.2	3016.6	3003.4	3003.4	2988.3	2990.1	2982.7	2982.7
32.5°	2850.9	2835.8	2815.1	2800.0	2784.9	2777.4	2777.4	2771.8	2775.5	2775.5	2779.3
35°	2544.0	2523.3	2511.9	2502.5	2502.5	2510.0	2532.6	2538.3	2549.6	2559.0	2566.6
37.5°	2150.3	2148.5	2161.7	2172.9	2201.2	2233.2	2272.7	2306.7	2338.6	2361.3	2383.9
40°	1724.8	1771.9	1809.6	1862.3	1905.5	1967.7	2039.3	2097.7	2152.2	2191.8	2233.2
42.5°	1346.3	1406.6	1485.7	1562.9	1640.1	1724.8	1819.0	1899.9	1971.4	2026.1	2069.4
45°	1048.8	1131.6	1227.7	1325.6	1425.4	1530.9	1628.8	1711.7	1787.0	1843.4	1886.7
47.5°	845.4	935.9	1045.0	1152.4	1265.4	1376.4	1485.7	1557.2	1619.3	1664.6	1704.2
50°	698.6	794.6	909.4	1031.9	1144.8	1256.0	1350.1	1419.8	1470.6	1510.2	1534.6
52.5°	583.8	685.4	807.9	930.2	1043.2	1144.8	1229.6	1282.3	1323.8	1352.0	1374.5
55°	482.1	579.9	694.8	809.7	920.8	1016.8	1086.4	1126.0	1158.1	1175.0	1188.1
57.5°	393.5	483.9	589.4	694.8	790.9	870.0	924.5	964.1	979.2	992.4	990.4
60°	308.8	393.5	489.6	579.9	662.8	726.9	766.4	789.0	800.2	805.9	802.1
62.5°	242.9	320.2	393.5	472.6	532.9	587.5	625.2	625.2	630.8	632.7	638.3
65°	180.8	239.2	303.2	361.6	410.5	446.3	467.0	472.6	480.2	478.2	474.5
67.5°	133.6	177.0	224.1	267.4	301.3	323.9	339.0	352.1	350.2	346.5	344.6
70°	92.2	120.5	162.0	188.3	212.7	235.4	239.2	241.0	242.9	244.8	241.0
72.5°	64.0	84.7	107.3	129.9	145.0	154.4	163.8	165.7	165.7	165.7	163.8
75°	32.1	43.3	64.0	73.5	86.6	90.4	97.9	97.9	103.6	96.0	94.2
77.5°	28.2	33.9	45.2	52.8	58.4	64.0	65.9	71.6	69.6	65.9	67.7
80°	17.0	20.7	28.2	32.1	39.5	41.4	43.3	45.2	43.3	45.2	45.2
82.5°	13.2	15.1	18.8	18.8	24.4	24.4	26.3	26.3	28.2	28.2	28.2
85°	7.5	13.2	11.2	22.6	15.1	15.1	18.8	22.6	18.8	18.8	22.6
87.5°	7.5	7.5	5.6	7.5	7.5	7.5	9.5	11.2	11.2	13.2	11.2
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: P249174

CATALOG NUMBER: LSR8B80D010 EC8B80927 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3508.0	3508.0	3508.0	3508.0
2.5°	3513.7	3517.4	3511.8	3509.9
5°	3519.3	3519.3	3515.5	3515.5
7.5°	3519.3	3519.3	3513.7	3509.9
10°	3504.3	3504.3	3498.6	3494.8
12.5°	3476.0	3476.0	3474.1	3468.5
15°	3440.2	3440.2	3432.7	3427.1
17.5°	3391.3	3395.0	3385.7	3385.7
20°	3338.6	3336.6	3329.1	3325.4
22.5°	3284.0	3280.2	3278.2	3267.0
25°	3225.6	3221.8	3216.2	3210.5
27.5°	3125.8	3123.9	3118.3	3110.7
30°	2973.3	2971.4	2963.8	2963.8
32.5°	2775.5	2773.7	2766.2	2768.1
35°	2570.3	2577.8	2574.0	2566.6
37.5°	2399.0	2404.6	2408.4	2404.6
40°	2255.8	2272.7	2274.6	2278.5
42.5°	2103.3	2125.9	2133.5	2137.2
45°	1920.6	1941.4	1958.3	1954.6
47.5°	1734.2	1749.3	1764.3	1753.1
50°	1555.3	1564.8	1570.4	1570.4
52.5°	1385.9	1385.9	1384.0	1385.9
55°	1191.9	1191.9	1184.4	1188.1
57.5°	988.5	992.4	986.6	977.3
60°	800.2	790.9	787.1	781.4
62.5°	623.2	623.2	610.1	627.1
65°	467.0	461.4	455.6	453.8
67.5°	339.0	337.0	331.4	329.5
70°	239.2	231.6	229.7	225.9
72.5°	160.1	160.1	156.3	156.3
75°	97.9	88.5	86.6	88.5
77.5°	67.7	65.9	65.9	64.0
80°	45.2	43.3	47.1	41.4
82.5°	28.2	30.2	28.2	30.2
85°	18.8	22.6	20.7	20.7
87.5°	11.2	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)