

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P175596

Luminaire Tested: **LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P175596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26297)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt  
Description: PORTFOLIO 6" Lensed Adjustable, Self-flange Trim Ring, 35° Flood  
Optic, at 30° tilt  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2024.7 lumens  
Efficiency: N/A  
Efficacy: 45.5 lumens/watt  
Spacing Criteria (0/90/45): 2.79 / 0.61 / 1.41  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

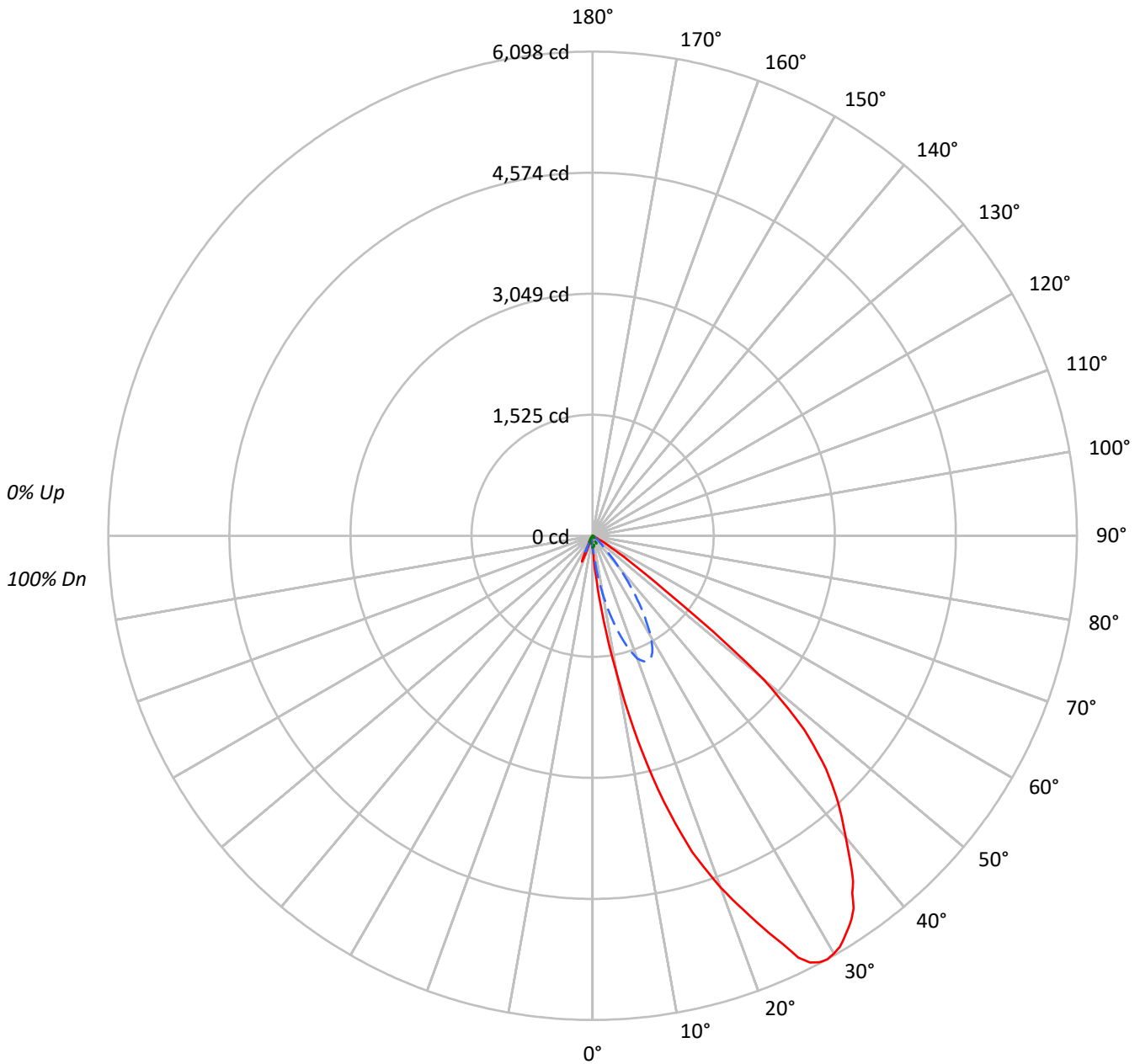
Input Watts (W): 44.49  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58																			
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51																			
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	57	52	48	46																			
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41																			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37																			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	8113	8113	8113
5°	30657	7611	3896
10°	99647	6429	2533
15°	196823	5216	2264
20°	274914	4364	3985
25°	343338	6049	11952
30°	384635	3501	5665
35°	383462	2556	2938
40°	354987	1395	1395
45°	322398	884	760
50°	239097	486	350
55°	58378	392	153
60°	10339	362	88
65°	1894	532	104
70°	385	657	256
75°	0	868	339
80°	0	1294	505
85°	0	2579	1006



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.3	1.4
10°-20°	228.4	11.3
20°-30°	554.4	27.4
30°-40°	654.5	32.3
40°-50°	464.2	22.9
50°-60°	84.2	4.2
60°-70°	5.4	0.3
70°-80°	2.8	0.1
80°-90°	2.5	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°	811.0	40.1
0°-40°	1465.5	72.4
0°-60°	2014.0	99.5
0°-90°	2024.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	557	319	138	84	71	93
15°	3468	1262	92	46	40	1003
25°	5676	1711	100	221	198	2611
35°	5730	982	38	44	44	3530
45°	4158	187	11	12	10	3122
55°	611	24	4	3	2	793
65°	15	4	4	3	1	23
75°	0	2	4	3	2	1
85°	0	2	4	3	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	248.1	242.4	242.4	244.8	245.6	240.7	240.7	234.2	231.0	231.8	225.3
5°	557.1	568.5	545.7	549.0	546.6	531.1	524.6	502.6	488.0	480.7	457.1
7.5°	1088.2	1071.1	1037.0	1038.6	1029.7	1004.5	983.3	945.1	912.6	889.0	845.9
10°	1790.1	1795.0	1740.5	1735.6	1714.5	1666.5	1619.3	1545.3	1478.6	1426.6	1346.9
12.5°	2649.0	2599.4	2579.9	2566.0	2531.9	2466.0	2392.8	2290.3	2188.7	2101.6	1978.8
15°	3468.0	3440.4	3411.1	3387.5	3344.4	3261.4	3169.5	3041.0	2908.4	2793.8	2638.4
17.5°	4175.6	4142.3	4107.3	4079.6	4004.0	3945.4	3821.8	3715.3	3564.0	3427.3	3240.3
20°	4712.4	4694.5	4653.8	4615.6	4535.1	4458.6	4330.1	4209.0	4041.4	3868.2	3689.2
22.5°	5187.4	5160.5	5109.3	5051.6	4950.7	4849.9	4701.8	4566.8	4383.8	4199.2	4006.4
25°	5676.2	5664.0	5585.9	5493.2	5350.9	5208.5	5023.9	4857.2	4650.6	4456.2	4231.7
26°	5912.9	5857.6	5777.9	5669.7	5502.1	5329.7	5129.6	4946.6	4726.2	4513.1	4288.7
27°	6030.8	5987.7	5917.7	5807.9	5633.1	5429.8	5209.3	5012.5	4779.1	4558.7	4326.1
28°	6085.3	6048.7	5990.9	5889.3	5719.3	5490.8	5259.0	5050.7	4807.6	4579.8	4339.9
29°	6097.5	6069.0	6018.6	5925.1	5765.7	5532.2	5285.0	5067.8	4819.8	4587.1	4343.2
30°	6076.3	6060.1	6021.0	5931.6	5777.9	5544.4	5289.9	5067.8	4816.5	4579.8	4330.1
31°	6041.4	6031.6	5999.1	5915.3	5765.7	5529.0	5271.2	5048.3	4795.4	4556.2	4300.9
32°	5975.5	5984.4	5957.6	5875.5	5727.4	5489.1	5234.6	5014.1	4760.4	4518.8	4256.1
33°	5905.5	5927.5	5903.1	5814.5	5661.6	5424.9	5180.1	4965.3	4710.8	4466.8	4197.6
34°	5829.1	5854.3	5823.4	5723.4	5565.6	5337.0	5106.1	4897.8	4644.9	4400.1	4121.1
35°	5729.9	5751.0	5710.4	5604.6	5443.6	5227.2	5014.1	4810.8	4561.1	4312.2	4026.8
36°	5563.1	5614.4	5572.1	5463.1	5305.3	5107.7	4910.0	4712.4	4465.2	4215.5	3923.5
37°	5450.9	5460.7	5419.2	5308.6	5163.0	4987.3	4800.2	4607.5	4363.5	4107.3	3810.4
38°	5289.0	5293.1	5251.6	5148.3	5022.3	4861.2	4682.3	4494.4	4250.4	3990.2	3684.4
39°	5119.9	5119.1	5081.7	4993.0	4880.8	4727.0	4553.8	4369.2	4121.9	3855.2	3537.1
40°	4960.5	4958.0	4925.5	4844.2	4735.2	4586.3	4416.4	4230.9	3978.8	3705.5	3374.5
42.5°	4583.1	4566.8	4534.3	4454.6	4350.5	4203.3	4026.0	3825.9	3558.3	3250.0	2875.9
45°	4158.5	4123.6	4089.4	3997.5	3880.4	3722.6	3523.3	3296.4	2997.1	2659.6	2270.8
47.5°	3615.2	3568.1	3534.7	3429.8	3296.4	3119.1	2891.4	2644.1	2328.5	1966.6	1569.7
50°	2803.5	2698.6	2663.6	2498.5	2318.8	2089.4	1803.1	1516.9	1198.8	902.8	632.0
51°	2226.9	2109.8	2075.6	1906.4	1732.4	1520.9	1260.7	1018.3	771.0	569.3	422.9
52°	1627.5	1518.5	1487.6	1334.7	1188.3	1018.3	824.7	665.3	526.2	425.4	341.6
53°	1123.2	1052.4	1024.8	922.3	825.5	716.5	599.4	502.6	413.2	341.6	279.0
54°	828.8	780.8	758.8	684.8	614.9	538.4	457.9	392.0	330.2	277.3	225.3
55°	610.8	575.0	559.6	508.3	462.8	410.7	357.0	309.9	261.9	218.0	170.8
57.5°	276.5	258.6	252.1	230.2	212.3	196.8	160.2	134.2	109.0	87.8	68.3
60°	94.3	87.0	84.6	76.5	71.6	66.7	56.1	48.0	41.5	35.8	30.1
61°	60.2	56.1	54.5	50.4	48.0	45.5	39.0	34.2	30.1	26.8	22.8
62°	40.7	38.2	37.4	35.0	33.3	32.5	28.5	25.2	22.0	19.5	17.1
63°	28.5	26.8	26.8	25.2	24.4	23.6	20.3	18.7	16.3	14.6	13.0
64°	20.3	19.5	18.7	17.9	17.1	17.1	14.6	13.8	12.2	11.4	9.8
65°	14.6	13.8	13.8	13.0	13.0	12.2	11.4	9.8	8.9	8.1	7.3
66°	10.6	9.8	9.8	9.8	8.9	8.9	8.1	7.3	6.5	6.5	5.7



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
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):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	226.9	221.2	219.6	218.0	215.5	213.1	205.8	204.1	202.5	196.0	194.4
5°	450.6	427.8	413.2	397.7	381.4	362.7	332.6	318.8	304.2	279.0	266.8
7.5°	820.6	774.3	736.9	698.6	660.4	615.7	557.1	522.2	484.7	435.1	401.8
10°	1286.7	1201.3	1128.1	1057.3	989.0	910.9	834.5	758.0	693.0	615.7	553.1
12.5°	1873.1	1734.0	1613.6	1494.9	1377.8	1252.5	1130.5	1011.8	896.3	793.8	697.0
15°	2499.3	2319.6	2151.2	1982.1	1804.8	1616.9	1433.1	1261.5	1098.0	954.8	823.9
17.5°	3033.7	2829.6	2614.0	2403.4	2177.3	1925.1	1699.8	1478.6	1268.8	1084.2	915.8
20°	3466.4	3233.8	2978.4	2727.9	2451.4	2181.3	1911.3	1647.8	1381.8	1156.5	953.2
22.5°	3776.3	3529.0	3250.0	2965.4	2649.8	2338.3	2025.2	1715.3	1416.0	1160.6	934.5
25°	3984.5	3715.3	3412.7	3097.1	2745.0	2401.7	2050.4	1711.2	1384.3	1111.8	871.9
26°	4034.1	3758.4	3447.7	3119.9	2758.8	2406.6	2038.2	1688.5	1354.2	1076.0	833.7
27°	4065.8	3782.0	3463.1	3125.6	2758.0	2412.3	2010.5	1652.7	1311.9	1032.1	789.7
28°	4077.2	3787.7	3462.3	3114.2	2739.3	2356.2	1967.4	1601.4	1265.5	979.2	739.3
29°	4075.6	3780.3	3446.1	3086.6	2704.3	2309.0	1908.1	1538.0	1202.1	919.9	684.8
30°	4059.3	3755.9	3412.7	3040.2	2651.4	2243.1	1831.6	1461.5	1132.1	854.8	625.4
31°	4026.0	3714.5	3359.0	2971.9	2578.2	2159.4	1742.1	1375.3	1054.9	784.9	564.4
32°	3975.5	3655.1	3286.6	2887.3	2488.8	2061.8	1641.3	1269.6	972.7	713.3	511.6
33°	3910.5	3579.4	3199.6	2788.1	2387.9	1949.5	1529.9	1195.6	889.0	640.9	442.4
34°	3827.5	3487.5	3093.9	2673.4	2270.8	1825.1	1414.4	1082.5	804.4	567.7	390.4
35°	3728.3	3376.9	2973.5	2546.5	2140.7	1690.1	1309.5	981.7	718.2	494.5	331.8
36°	3616.9	3254.1	2838.5	2409.9	1998.3	1552.6	1189.9	880.8	632.8	422.9	279.8
37°	3494.9	3119.1	2695.4	2260.2	1845.4	1410.3	1070.3	781.6	549.0	354.6	238.3
38°	3357.4	2967.8	2536.8	2095.1	1682.0	1268.8	952.4	682.4	465.2	293.6	208.2
39°	3198.0	2795.4	2364.3	1912.9	1514.4	1126.5	836.1	584.8	386.3	244.8	185.4
40°	3020.7	2612.4	2175.6	1720.2	1345.2	988.2	722.2	490.4	315.6	211.5	165.9
42.5°	2500.2	2076.4	1638.0	1264.7	951.6	671.8	462.8	293.6	204.1	157.0	122.0
45°	1885.3	1488.4	1131.3	851.6	618.9	402.6	263.5	187.1	144.8	109.0	85.4
47.5°	1233.8	927.2	659.6	457.9	309.9	206.6	161.0	122.0	94.3	72.4	57.7
50°	465.2	343.2	266.8	213.1	168.4	127.7	100.9	77.3	59.4	45.5	36.6
51°	344.0	277.3	218.8	174.9	139.1	105.7	82.1	61.0	47.2	36.6	30.1
52°	282.2	227.7	179.7	143.1	113.1	82.1	63.4	48.0	38.2	30.1	24.4
53°	231.0	185.4	144.8	113.1	86.2	62.6	48.8	38.2	30.9	24.4	20.3
54°	183.8	144.0	108.2	83.0	64.3	47.2	38.2	30.1	24.4	20.3	17.1
55°	136.6	104.1	77.3	61.0	48.0	36.6	30.1	24.4	20.3	16.3	13.8
57.5°	56.1	44.7	36.6	30.1	25.2	20.3	17.1	14.6	12.2	9.8	8.1
60°	26.0	22.0	19.5	16.3	13.8	11.4	9.8	8.9	7.3	6.5	5.7
61°	20.3	17.1	14.6	13.0	11.4	8.9	8.1	7.3	6.5	5.7	4.9
62°	15.5	13.0	11.4	9.8	8.9	7.3	6.5	5.7	4.9	4.9	4.1
63°	11.4	9.8	8.9	8.1	7.3	6.5	5.7	4.9	4.9	4.1	4.1
64°	8.9	8.1	7.3	6.5	5.7	4.9	4.9	4.1	4.1	3.3	3.3
65°	6.5	6.5	5.7	4.9	4.9	4.1	4.1	4.1	3.3	3.3	3.3
66°	5.7	4.9	4.1	4.1	4.1	3.3	3.3	3.3	3.3	3.3	3.3





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CATALOG NUMBER: LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4
82.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
85°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
87.5°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
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: P175596

CATALOG NUMBER: LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	190.3	189.5	183.8	181.4	178.1	174.1	170.8	168.4	164.3	161.0	157.8
5°	249.7	240.7	226.1	216.3	207.4	198.5	191.1	184.6	177.3	170.8	164.3
7.5°	360.3	330.2	293.6	266.0	243.2	222.9	208.2	196.0	184.6	174.9	163.5
10°	483.9	428.6	372.5	319.6	278.2	243.2	218.8	200.1	184.6	171.6	157.0
12.5°	597.8	516.5	434.3	363.6	302.6	254.6	221.2	197.6	179.7	163.5	146.4
15°	694.6	585.6	481.5	390.4	314.8	255.4	217.2	191.1	170.8	151.3	134.2
17.5°	755.6	617.3	494.5	389.6	306.6	242.4	204.1	178.9	156.2	136.6	120.4
20°	768.6	610.0	475.8	361.1	278.2	218.0	186.3	160.2	137.5	120.4	106.5
22.5°	736.1	568.5	426.2	312.3	238.3	192.8	165.9	140.7	122.0	108.2	96.8
25°	666.1	496.1	357.9	256.2	204.1	170.0	145.6	125.3	111.4	102.5	96.0
26°	629.5	460.3	327.0	235.9	192.8	161.9	139.1	121.2	109.8	103.3	98.4
27°	587.2	422.1	296.1	218.0	182.2	151.3	130.9	114.7	104.1	98.4	95.2
28°	540.9	381.4	266.8	201.7	169.2	138.3	119.6	104.1	93.5	87.0	81.3
29°	492.1	340.8	239.9	187.1	156.2	126.9	109.0	94.3	83.8	77.3	71.6
30°	440.8	301.7	217.2	174.1	143.1	116.3	100.0	86.2	76.5	69.9	64.3
31°	391.2	266.0	200.9	160.2	131.8	107.4	92.7	81.3	71.6	65.1	61.0
32°	341.6	235.9	185.4	147.2	121.2	100.9	86.2	76.5	68.3	62.6	59.4
33°	296.9	210.7	171.6	135.0	112.2	94.3	82.1	73.2	65.9	61.0	57.7
34°	257.0	193.6	156.2	122.8	103.3	87.0	75.6	67.5	60.2	56.1	52.1
35°	224.5	175.7	140.7	110.6	92.7	78.1	68.3	60.2	53.7	49.6	45.5
36°	199.3	157.8	125.3	98.4	83.0	70.8	61.0	53.7	48.0	43.9	40.7
37°	179.7	141.5	112.2	88.7	75.6	63.4	55.3	48.8	43.1	39.0	35.8
38°	161.9	126.1	100.9	80.5	68.3	57.7	49.6	44.7	39.0	35.0	31.7
39°	144.0	110.6	90.3	73.2	62.6	52.9	45.5	40.7	35.0	31.7	28.5
40°	127.7	99.2	81.3	65.9	56.9	47.2	41.5	36.6	31.7	28.5	25.2
42.5°	94.3	74.0	61.8	50.4	43.1	36.6	31.7	26.8	23.6	21.1	18.7
45°	67.5	53.7	44.7	36.6	30.9	26.0	22.0	19.5	17.1	15.5	13.8
47.5°	45.5	36.6	30.9	24.4	21.1	17.9	15.5	13.8	12.2	10.6	9.8
50°	29.3	23.6	20.3	16.3	13.8	12.2	10.6	8.9	8.1	7.3	7.3
51°	24.4	19.5	17.1	13.8	12.2	10.6	8.9	8.1	7.3	6.5	5.7
52°	20.3	16.3	13.8	11.4	9.8	8.9	7.3	6.5	5.7	5.7	5.7
53°	17.1	13.8	12.2	9.8	8.9	7.3	6.5	5.7	4.9	4.9	4.9
54°	13.8	11.4	9.8	8.1	7.3	6.5	5.7	4.9	4.9	4.1	4.1
55°	11.4	9.8	8.1	7.3	6.5	5.7	4.9	4.1	4.1	4.1	4.1
57.5°	7.3	6.5	5.7	4.9	4.1	4.1	3.3	3.3	3.3	3.3	3.3
60°	4.9	4.1	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
61°	4.1	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
62°	4.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
63°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
64°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
66°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P175596

CATALOG NUMBER: LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
72.5°	2.4	2.4	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	2.4	2.4	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	2.4	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.1
82.5°	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.1
85°	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.1
87.5°	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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: P175596

CATALOG NUMBER: LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	153.7	151.3	147.2	144.8	122.0	109.8	98.4	97.6
5°	157.0	150.5	144.0	138.3	100.9	83.8	72.4	70.8
7.5°	153.7	144.0	135.0	128.5	84.6	65.9	56.1	54.5
10°	144.8	134.2	123.6	115.5	72.4	56.1	47.2	45.5
12.5°	133.4	122.0	111.4	102.5	62.6	50.4	43.1	41.5
15°	120.4	109.0	100.0	91.9	57.7	46.4	41.5	39.9
17.5°	108.2	97.6	89.5	82.1	53.7	44.7	42.3	43.1
20°	96.0	87.8	80.5	74.8	55.3	52.9	61.0	68.3
22.5°	88.7	83.0	78.9	74.8	85.4	131.8	297.7	353.0
25°	92.7	91.9	94.3	100.0	174.9	221.2	195.2	197.6
26°	97.6	99.2	103.3	109.0	149.7	139.1	127.7	136.6
27°	94.3	95.2	94.3	93.5	98.4	97.6	102.5	111.4
28°	78.9	77.3	75.6	73.2	74.8	83.0	94.3	101.7
29°	68.3	66.7	64.3	61.8	65.1	80.5	91.1	96.0
30°	61.8	59.4	56.9	55.3	65.1	79.7	87.0	89.5
31°	57.7	56.1	54.5	54.5	65.9	75.6	79.7	80.5
32°	57.7	56.1	55.3	55.3	61.0	67.5	69.9	70.8
33°	56.1	54.5	52.1	51.2	53.7	58.6	61.0	61.0
34°	49.6	48.0	46.4	43.9	46.4	50.4	52.9	52.1
35°	43.1	41.5	39.9	38.2	39.9	43.9	44.7	43.9
36°	37.4	35.8	34.2	32.5	34.2	37.4	38.2	37.4
37°	33.3	31.7	30.1	28.5	28.5	32.5	33.3	31.7
38°	30.1	27.7	26.0	25.2	25.2	28.5	28.5	26.8
39°	26.8	25.2	23.6	22.0	22.0	24.4	24.4	22.8
40°	23.6	22.0	20.3	19.5	19.5	21.1	21.1	19.5
42.5°	17.1	16.3	15.5	14.6	14.6	16.3	15.5	13.8
45°	13.0	12.2	11.4	11.4	11.4	12.2	10.6	9.8
47.5°	8.9	8.9	8.1	8.1	8.1	8.9	8.1	7.3
50°	6.5	6.5	5.7	5.7	6.5	6.5	5.7	4.1
51°	5.7	5.7	5.7	4.9	5.7	5.7	4.9	4.1
52°	4.9	4.9	4.9	4.9	4.9	4.9	4.1	3.3
53°	4.1	4.1	4.1	4.1	4.1	4.1	3.3	2.4
54°	4.1	4.1	4.1	4.1	4.1	4.1	2.4	2.4
55°	4.1	4.1	4.1	4.1	4.1	3.3	2.4	1.6
57.5°	3.3	3.3	3.3	3.3	3.3	3.3	2.4	1.6
60°	3.3	3.3	3.3	3.3	3.3	3.3	1.6	0.8
61°	3.3	3.3	3.3	3.3	4.1	3.3	1.6	0.8
62°	3.3	3.3	3.3	3.3	4.1	3.3	1.6	0.8
63°	3.3	3.3	3.3	3.3	4.1	3.3	1.6	0.8
64°	3.3	3.3	3.3	4.1	4.1	3.3	1.6	0.8
65°	3.3	3.3	4.1	4.1	4.1	3.3	1.6	0.8
66°	3.3	4.1	4.1	4.1	4.1	3.3	1.6	0.8



TEST NUMBER: P175596

CATALOG NUMBER: LDA6A30930D010TE LAR35FL 6LAL1 30° Tilt

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
72.5°	3.3	4.1	4.1	4.1	4.1	3.3	2.4	1.6
75°	3.3	4.1	4.1	4.1	4.1	3.3	2.4	1.6
77.5°	4.1	4.1	4.1	4.1	4.1	3.3	2.4	1.6
80°	4.1	4.1	4.1	4.1	4.1	3.3	2.4	1.6
82.5°	4.1	4.1	4.1	4.1	4.1	3.3	2.4	1.6
85°	4.1	4.1	4.1	4.1	4.1	3.3	2.4	1.6
87.5°	4.1	4.1	4.1	4.1	4.1	3.3	1.6	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°    - - 45°-225°    - - - - 90°-270°









67.5°	6.5	5.7	5.7	5.7	5.7	4.9	4.9	4.9	4.1	4.1	3.3
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.6





67.5°	3.3	3.3	3.3	3.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4





67.5°	2.4	2.4	2.4	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	2.4	2.4	2.4	2.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3







67.5°	3.3	4.1	4.1	4.1	4.1	3.3	1.6	1.6
70°	3.3	3.3	4.1	4.1	4.1	3.3	2.4	1.6



(END OF REPORT)