

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: P1191826

Luminaire Tested: **LDA4A30935D010TE LAR25NF 4LLWW1**

Issue Date: 3/3/2020

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-41-14
Report Number: P1191826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26102)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A30935D010TE LAR25NF 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 25° Narrow Flood Optic,
at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

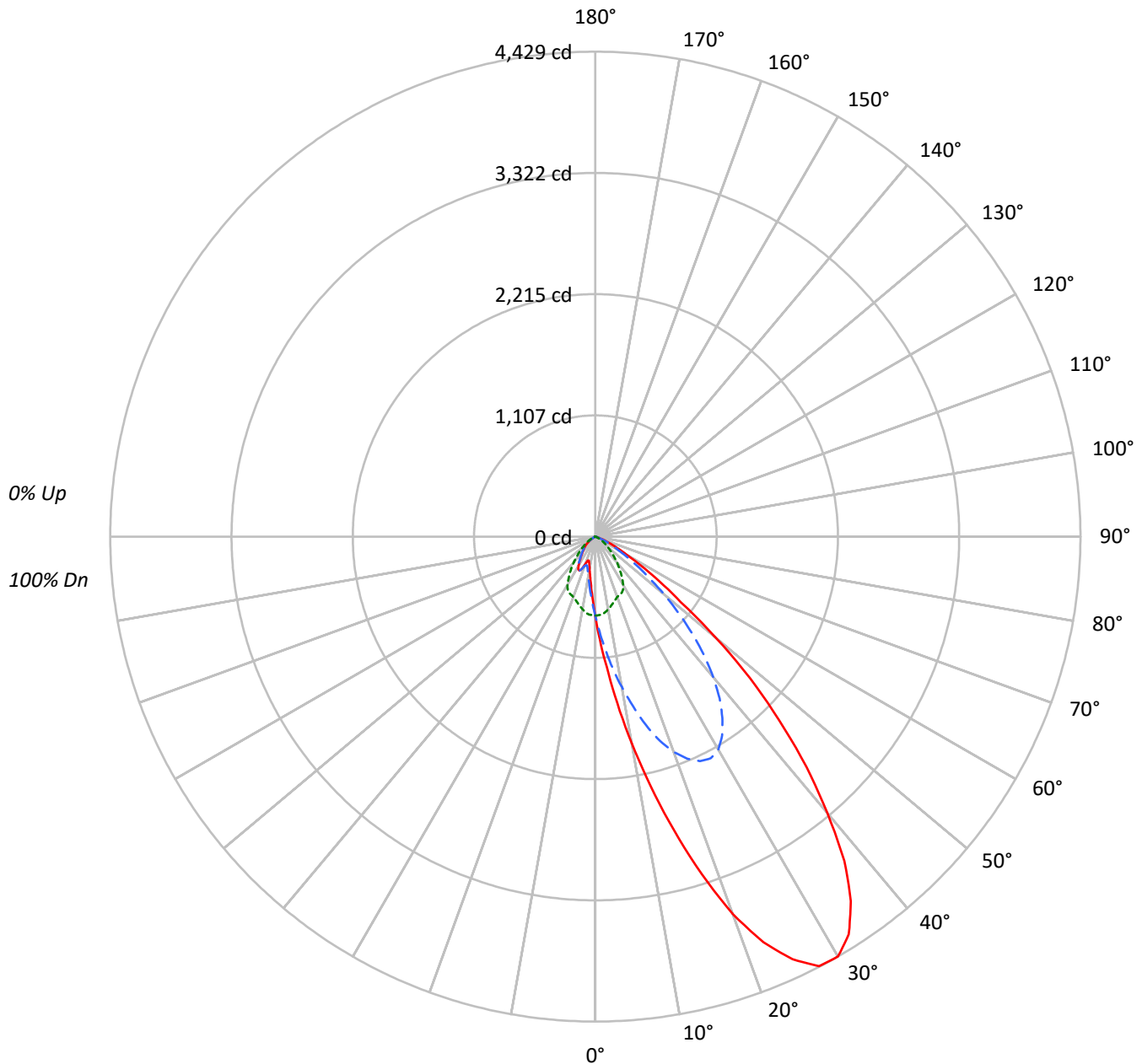
Lumens per Lamp: N/A
Luminaire Lumens: 2602.1 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	101	102	100	98	98	96	95	95	93	92	90		
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50		
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	34	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	88982	88982	88982
5°	148035	88269	55557
10°	239675	84417	37549
15°	354435	80028	29191
20°	481494	76906	34456
25°	579664	77208	46776
30°	630753	72367	43654
35°	612262	60954	34934
40°	530355	49078	28629
45°	413573	37801	24526
50°	274271	28266	18863
55°	152941	20773	11290
60°	80643	13790	4588
65°	43487	6917	496
70°	20773	2416	613
75°	7292	1620	810
80°	2415	2415	0
85°	7218	4812	0

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.0
10°-20°	303.7	11.7
20°-30°	624.6	24.0
30°-40°	746.1	28.7
40°-50°	550.9	21.2
50°-60°	231.9	8.9
60°-70°	57.0	2.2
70°-80°	7.8	0.3
80°-90°	3.1	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°	1005.3	38.6
0°-40°	1751.4	67.3
0°-60°	2534.3	97.4
0°-90°	2602.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2602.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	721	721	721	721	721	
5°	1196	1030	713	511	449	137
15°	2776	1782	627	284	229	814
25°	4259	2262	567	342	344	1948
35°	4066	2022	405	242	232	2494
45°	2371	1246	217	142	141	1820
55°	711	462	97	61	52	679
65°	149	102	24	5	2	162
75°	15	8	3	2	2	22
85°	5	5	3	2	0	5
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	938.2	926.3	926.3	929.8	939.9	931.5	924.6	917.9	924.6	909.5	914.5
5°	1195.6	1194.0	1194.0	1180.4	1192.3	1194.0	1180.4	1168.5	1171.9	1149.9	1149.9
7.5°	1534.3	1524.1	1520.8	1502.1	1515.7	1514.0	1491.9	1471.6	1471.6	1436.1	1427.6
10°	1913.6	1900.2	1893.3	1869.6	1881.4	1874.7	1842.5	1812.1	1803.6	1752.8	1734.1
12.5°	2332.0	2323.4	2313.3	2282.8	2293.0	2279.5	2233.7	2189.7	2171.1	2103.3	2071.1
15°	2775.6	2789.2	2772.3	2736.7	2743.5	2719.8	2660.4	2599.5	2570.8	2479.3	2431.9
17.5°	3232.9	3249.8	3231.2	3190.6	3188.8	3156.7	3075.4	3000.9	2958.5	2841.7	2779.0
20°	3668.2	3673.2	3649.4	3605.5	3595.4	3551.3	3453.0	3348.0	3307.4	3163.5	3083.8
22.5°	4010.2	4028.8	4000.0	3967.8	3935.7	3879.9	3764.7	3649.4	3591.9	3427.7	3331.2
25°	4259.2	4301.6	4267.7	4230.3	4194.8	4128.8	4000.0	3876.4	3805.3	3622.4	3512.4
27.5°	4423.4	4464.1	4426.9	4384.5	4347.2	4271.0	4130.5	4011.9	3925.5	3725.7	3607.1
30°	4428.6	4477.6	4438.7	4393.0	4357.3	4281.1	4137.2	4015.3	3918.8	3718.9	3595.4
32.5°	4306.6	4345.5	4306.6	4267.7	4227.0	4154.2	4010.2	3893.3	3791.8	3600.4	3476.8
35°	4066.1	4100.0	4061.0	4015.3	3986.4	3922.2	3785.0	3673.2	3571.6	3395.5	3287.1
37.5°	3734.1	3764.7	3729.1	3703.6	3661.3	3603.8	3478.5	3378.5	3282.0	3122.8	3026.3
40°	3293.8	3358.2	3324.3	3307.4	3268.5	3219.3	3109.3	3021.2	2933.1	2794.3	2714.7
42.5°	2853.5	2914.5	2884.0	2872.1	2838.4	2796.0	2704.5	2630.0	2548.7	2433.6	2365.8
45°	2370.9	2435.3	2406.5	2401.4	2372.6	2340.5	2242.2	2203.3	2132.2	2023.8	1991.6
47.5°	1917.0	1928.9	1901.7	1903.5	1883.2	1861.1	1781.6	1757.8	1722.2	1639.3	1602.1
50°	1429.3	1437.7	1415.8	1422.6	1409.0	1395.5	1341.3	1329.4	1307.4	1251.5	1229.4
52.5°	984.0	1022.9	1007.6	1014.5	1007.6	1002.6	980.6	960.2	950.1	914.5	904.3
55°	711.2	714.6	702.8	709.6	704.5	702.8	689.3	677.4	672.3	650.3	647.0
57.5°	492.8	496.2	496.2	492.8	491.1	487.8	479.2	472.5	469.0	464.0	453.9
60°	326.9	340.4	335.3	338.7	337.0	337.0	330.3	325.1	323.4	313.3	313.3
62.5°	223.6	232.0	228.6	230.3	228.6	228.6	223.6	220.1	220.1	218.4	213.4
65°	149.0	154.1	150.8	152.5	152.5	152.5	149.0	145.6	145.6	143.9	140.6
67.5°	94.8	98.3	96.6	98.3	96.6	98.3	94.8	93.1	91.4	91.4	89.7
70°	57.6	59.2	57.6	59.2	57.6	57.6	55.9	55.9	54.2	52.5	52.5
72.5°	30.5	32.2	32.2	32.2	32.2	32.2	30.5	28.8	28.8	28.8	27.0
75°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	13.6	13.6	13.6
77.5°	6.7	6.7	6.7	6.7	8.4	6.7	6.7	6.7	6.7	6.7	6.7
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	5.1	5.1	5.1	5.1	5.1	5.1	6.7	6.7	6.7	6.7	5.1
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	8.4	8.4	6.7	6.7
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°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	900.9	892.4	889.1	882.3	873.8	868.8	863.7	865.4	853.5	845.1	833.2
5°	1127.9	1109.3	1099.1	1083.8	1065.2	1049.9	1036.5	1029.6	1007.6	992.4	960.2
7.5°	1395.5	1363.3	1342.9	1315.8	1283.7	1256.6	1229.4	1210.9	1177.0	1148.2	1099.1
10°	1688.5	1639.3	1603.8	1563.2	1514.0	1469.9	1429.3	1395.5	1344.6	1300.7	1236.3
12.5°	2008.5	1939.1	1888.3	1828.9	1759.6	1698.6	1625.8	1586.8	1517.4	1456.5	1373.5
15°	2348.9	2257.5	2186.3	2105.0	2013.6	1932.3	1839.1	1781.6	1690.2	1612.2	1508.9
17.5°	2675.7	2560.6	2467.5	2364.2	2250.6	2145.6	2035.6	1954.2	1842.5	1746.0	1622.4
20°	2960.3	2823.1	2709.6	2584.3	2450.5	2321.9	2201.6	2093.1	1962.8	1849.3	1708.8
22.5°	3192.3	3033.1	2902.6	2757.0	2602.9	2457.3	2320.1	2196.4	2047.5	1922.1	1768.0
25°	3359.9	3185.5	3039.8	2879.0	2709.6	2543.6	2398.0	2262.5	2100.0	1966.1	1801.9
27.5°	3448.0	3263.4	3109.3	2936.5	2757.0	2584.3	2426.8	2282.8	2111.7	1971.3	1801.9
30°	3432.7	3244.8	3085.6	2907.8	2726.5	2553.9	2389.5	2245.6	2069.5	1927.2	1757.8
32.5°	3315.9	3131.3	2975.4	2802.8	2625.0	2457.3	2293.0	2154.1	1978.0	1839.1	1674.9
35°	3122.8	2948.4	2801.0	2636.8	2469.2	2311.7	2162.6	2022.0	1852.7	1720.6	1566.5
37.5°	2872.1	2712.9	2579.2	2426.8	2272.7	2130.5	1983.1	1862.8	1712.1	1588.5	1437.7
40°	2572.5	2431.9	2313.3	2177.8	2038.9	1915.3	1791.7	1674.9	1527.5	1417.4	1288.8
42.5°	2242.2	2122.0	2020.3	1901.7	1781.6	1676.6	1569.9	1468.3	1346.3	1246.5	1126.2
45°	1886.6	1785.0	1701.9	1607.1	1507.2	1409.0	1331.1	1246.5	1132.9	1058.5	956.8
47.5°	1519.1	1441.2	1378.5	1305.7	1226.2	1165.1	1090.6	1022.9	939.9	870.4	787.4
50°	1170.2	1116.0	1072.0	1021.2	963.7	907.7	863.7	811.2	748.5	692.6	626.7
52.5°	865.4	829.8	802.7	768.9	729.9	701.1	660.4	621.5	574.0	531.8	480.9
55°	619.8	599.5	582.6	562.3	535.1	509.8	489.5	462.3	428.4	396.2	359.0
57.5°	445.4	423.4	421.7	399.7	389.5	370.9	352.3	331.9	308.3	286.2	259.1
60°	308.3	293.0	286.2	277.8	265.9	254.0	245.6	232.0	215.1	199.8	179.5
62.5°	208.3	198.1	194.8	191.4	181.2	176.1	165.9	157.5	145.6	133.7	120.3
65°	137.2	130.5	127.0	121.9	116.9	113.4	108.4	101.6	91.4	84.7	76.2
67.5°	86.4	81.3	78.0	76.2	71.1	69.4	64.4	60.9	54.2	50.8	45.8
70°	49.1	47.4	44.1	44.1	40.6	37.2	35.6	32.2	30.5	27.0	25.5
72.5°	25.5	25.5	23.7	22.0	20.3	20.3	18.6	16.9	15.3	13.6	13.6
75°	11.9	11.9	11.9	10.2	10.2	10.2	8.4	8.4	8.4	6.7	6.7
77.5°	6.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	5.1	3.4	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	824.8	821.3	812.9	811.2	792.6	789.2	779.0	763.7	752.0	748.5	752.0
5°	948.4	933.1	907.7	902.6	872.1	862.0	839.9	816.2	795.9	784.2	779.0
7.5°	1075.4	1049.9	1012.7	994.1	950.1	928.1	895.9	862.0	829.8	807.8	794.3
10°	1197.3	1156.6	1089.0	1073.7	1019.5	984.0	939.9	894.2	853.5	823.1	801.0
12.5°	1312.4	1263.3	1194.0	1151.6	1080.4	1034.8	978.8	922.9	872.1	831.5	801.0
15°	1431.0	1366.6	1280.2	1221.0	1139.8	1078.8	1011.0	946.7	887.4	836.6	799.3
17.5°	1529.3	1449.6	1348.0	1276.9	1182.1	1109.3	1031.3	956.8	892.4	834.9	792.6
20°	1602.1	1508.9	1393.8	1310.8	1205.8	1124.5	1039.8	958.5	887.4	824.8	779.0
22.5°	1651.1	1544.4	1419.1	1327.7	1217.6	1129.6	1038.1	953.4	880.6	816.2	767.1
25°	1674.9	1559.7	1429.3	1331.1	1216.0	1124.5	1029.6	943.2	868.8	802.7	755.3
27.5°	1671.4	1549.6	1415.8	1312.4	1195.6	1100.7	1004.3	917.9	845.1	779.0	729.9
30°	1622.4	1502.1	1366.6	1261.6	1146.5	1051.6	955.1	870.4	799.3	731.7	685.9
32.5°	1546.1	1422.6	1290.4	1173.7	1075.4	982.3	890.7	804.5	736.7	670.6	626.7
35°	1442.9	1324.3	1197.3	1097.4	990.7	900.9	812.9	731.7	667.3	602.9	562.3
37.5°	1322.6	1209.1	1092.3	989.0	895.9	812.9	729.9	657.1	592.8	535.1	496.2
40°	1183.8	1078.8	972.1	884.0	792.6	716.4	640.1	569.0	516.5	464.0	430.1
42.5°	1033.0	939.9	843.4	767.1	684.2	616.4	543.6	492.8	442.0	394.6	367.5
45°	875.6	794.3	712.9	643.5	575.7	516.5	453.9	406.4	367.5	328.6	304.8
47.5°	719.8	650.3	584.3	528.4	469.0	420.0	375.9	333.6	296.4	264.2	245.6
50°	562.3	516.5	464.0	418.3	370.9	330.3	289.7	259.1	230.3	206.6	194.8
52.5°	438.6	396.2	353.9	316.7	282.8	248.9	221.9	196.4	176.1	160.9	152.5
55°	326.9	293.0	260.8	232.0	205.0	182.9	164.2	149.0	135.5	123.6	120.3
57.5°	233.7	208.3	186.2	164.2	147.3	133.7	121.9	111.7	103.3	94.8	93.1
60°	162.6	143.9	130.5	116.9	106.7	96.6	89.7	83.0	76.2	71.1	69.4
62.5°	108.4	98.3	88.1	81.3	76.2	67.8	64.4	59.2	55.9	50.8	49.1
65°	69.4	62.7	57.6	52.5	49.1	45.8	42.3	38.9	35.6	32.2	32.2
67.5°	42.3	37.2	35.6	32.2	28.8	27.0	25.5	22.0	20.3	20.3	18.6
70°	23.7	20.3	18.6	16.9	15.3	15.3	13.6	11.9	11.9	10.2	10.2
72.5°	11.9	11.9	10.2	10.2	8.4	8.4	6.7	6.7	6.7	5.1	5.1
75°	6.7	6.7	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
85°	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	5.1	5.1	5.1	5.1	5.1	3.4	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

TEST NUMBER: P1191826

CATALOG NUMBER: LDA4A30935D010TE LAR25NF 4LLWW1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	721.4	721.4	721.4	721.4	721.4	721.4	721.4	721.4
2.5°	738.4	721.4	718.1	718.1	647.0	604.6	572.5	563.9
5°	755.3	731.7	719.8	712.9	585.9	511.4	462.3	448.7
7.5°	763.7	729.9	711.2	696.0	526.7	430.1	377.6	362.5
10°	760.4	719.8	694.3	674.0	472.5	367.5	313.3	299.8
12.5°	753.6	707.9	675.7	650.3	426.7	318.4	269.2	255.8
15°	746.8	694.3	657.1	626.7	389.5	284.5	240.5	228.6
17.5°	733.2	679.2	636.8	604.6	365.8	270.9	233.7	226.9
20°	718.1	662.1	618.1	585.9	359.0	284.5	262.5	262.5
22.5°	707.9	650.3	607.9	575.7	370.9	316.7	308.3	313.3
25°	694.3	640.1	597.8	567.3	382.8	342.2	337.0	343.7
27.5°	672.3	618.1	577.5	547.0	375.9	338.7	333.6	337.0
30°	628.2	575.7	540.3	508.1	348.9	313.3	304.8	306.5
32.5°	572.5	521.5	487.8	457.3	310.0	276.1	267.6	267.6
35°	511.4	464.0	431.8	404.8	272.6	242.2	233.7	232.0
37.5°	450.4	406.4	379.3	353.9	238.7	211.7	203.3	201.5
40°	389.5	350.6	325.1	304.8	210.0	188.0	179.5	177.8
42.5°	331.9	298.1	276.1	259.1	182.9	165.9	159.2	157.5
45°	274.4	247.3	230.3	216.7	159.2	142.2	140.6	140.6
47.5°	221.9	199.8	188.0	179.5	135.5	121.9	120.3	121.9
50°	177.8	162.6	154.1	147.3	115.1	103.3	98.3	98.3
52.5°	140.6	130.5	125.3	120.3	94.8	83.0	76.2	74.5
55°	111.7	103.3	100.0	96.6	74.5	60.9	54.2	52.5
57.5°	88.1	81.3	78.0	74.5	55.9	42.3	35.6	33.9
60°	66.1	60.9	57.6	55.9	38.9	25.5	20.3	18.6
62.5°	47.4	44.1	40.6	38.9	23.7	13.6	8.4	6.7
65°	28.8	28.8	25.5	23.7	11.9	5.1	3.4	1.7
67.5°	16.9	15.3	13.6	13.6	5.1	3.4	1.7	1.7
70°	8.4	8.4	6.7	6.7	3.4	1.7	1.7	1.7
72.5°	5.1	5.1	5.1	3.4	3.4	1.7	1.7	1.7
75°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7
77.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	0.0
80°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	0.0
82.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7
85°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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Peachtree City, GA 30269

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1121 Highway 74 South

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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)