

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: P1191754

Luminaire Tested: **LDA4A25940D010TE 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: P1191754
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: LDA4A25940D010TE LAR25NF 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 25° Narrow Flood Optic,
at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

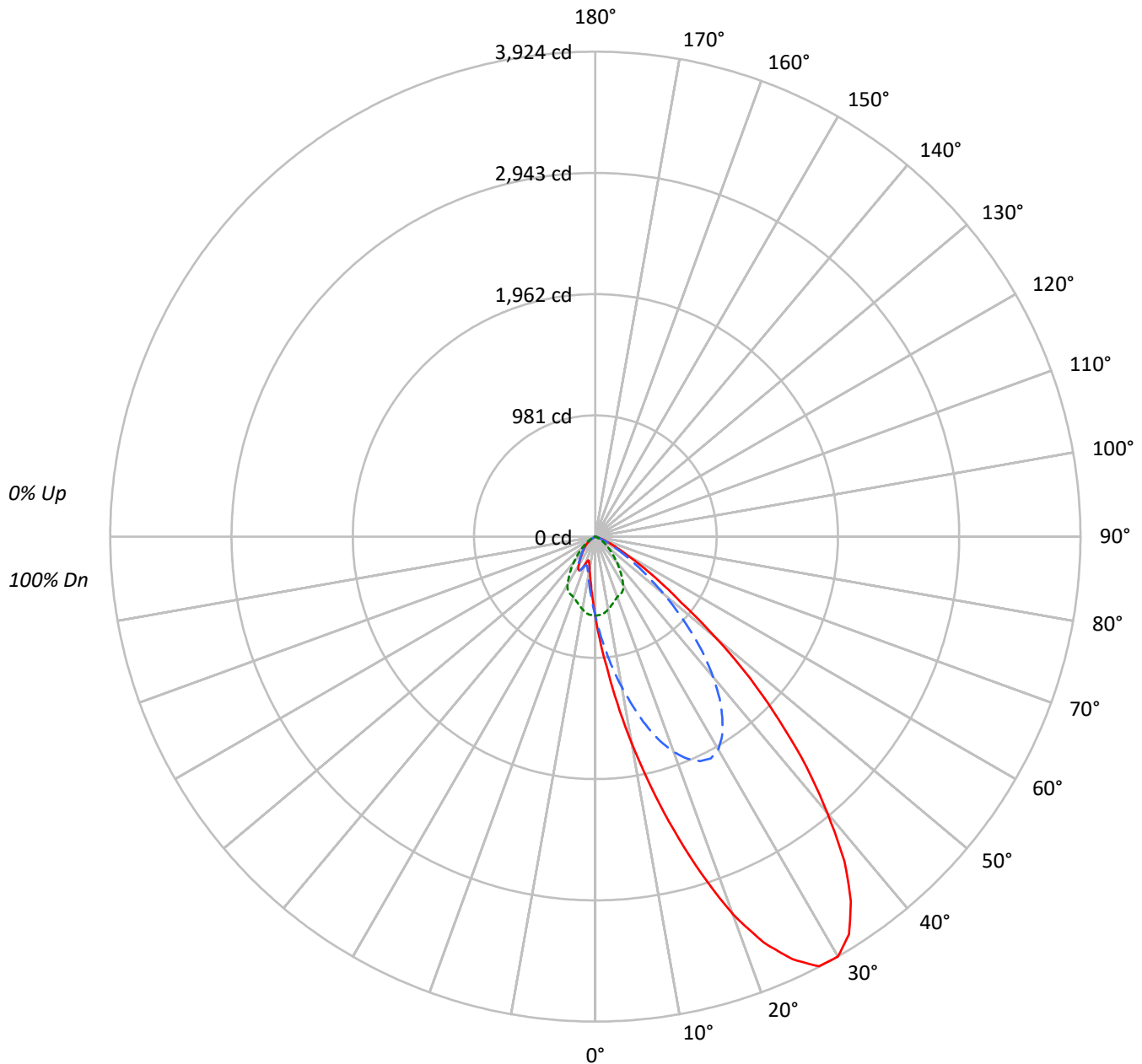
Lumens per Lamp: N/A
Luminaire Lumens: 2305.7 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 1.09 / 1.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 30.9
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	104	98	93	88	102	96	91	87		93	89	85		90	86	84		87	84	82
3	97	89	82	77	95	87	81	76		84	79	75		82	77	74		79	76	73
4	90	80	73	67	88	79	72	67		77	71	66		74	69	65		72	68	65
5	83	73	65	60	82	72	65	59		70	63	59		68	62	58		66	61	58
6	78	66	58	53	76	65	58	53		64	57	52		62	56	52		61	55	52
7	72	60	53	47	71	60	52	47		58	52	47		57	51	47		56	50	46
8	67	55	48	43	66	55	47	42		53	47	42		52	46	42		51	46	42
9	63	51	43	38	62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35	58	46	39	35		45	39	35		45	39	34		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	78855	78855	78855
5°	131184	78227	49230
10°	212384	74811	33266
15°	314057	70910	25871
20°	426640	68151	30531
25°	513629	68416	41455
30°	558899	64121	38683
35°	542530	54012	30959
40°	469958	43490	25360
45°	366475	33509	21717
50°	243031	25042	16714
55°	135544	18408	10000
60°	71466	12211	4070
65°	38526	6129	438
70°	18429	2164	541
75°	6434	1430	715
80°	2131	2131	0
85°	6369	4246	0

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	3.0
10°-20°	269.1	11.7
20°-30°	553.5	24.0
30°-40°	661.1	28.7
40°-50°	488.2	21.2
50°-60°	205.5	8.9
60°-70°	50.5	2.2
70°-80°	6.9	0.3
80°-90°	2.7	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°	890.8	38.6
0°-40°	1551.9	67.3
0°-60°	2245.6	97.4
0°-90°	2305.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	639	639	639	639	639	
5°	1060	912	632	453	398	121
15°	2459	1579	555	252	203	722
25°	3774	2005	503	303	305	1726
35°	3603	1792	359	215	206	2210
45°	2101	1104	192	126	124	1613
55°	630	410	86	54	46	601
65°	132	90	21	4	2	144
75°	14	8	3	2	2	19
85°	4	4	3	2	0	4
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°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3
2.5°	831.3	820.9	820.9	823.8	832.8	825.3	819.3	813.4	819.3	805.8	810.3
5°	1059.5	1058.0	1058.0	1045.9	1056.4	1058.0	1045.9	1035.4	1038.5	1018.9	1018.9
7.5°	1359.6	1350.6	1347.5	1331.1	1343.0	1341.5	1322.0	1304.1	1304.1	1272.5	1265.0
10°	1695.7	1683.6	1677.7	1656.6	1667.2	1661.2	1632.7	1605.6	1598.2	1553.1	1536.6
12.5°	2066.4	2058.9	2049.8	2022.8	2031.9	2019.8	1979.3	1940.3	1923.8	1863.8	1835.3
15°	2459.4	2471.5	2456.5	2424.9	2430.9	2409.9	2357.5	2303.5	2277.9	2196.9	2154.9
17.5°	2864.6	2879.6	2863.2	2827.2	2825.6	2797.1	2725.1	2659.1	2621.5	2518.0	2462.5
20°	3250.3	3254.8	3233.8	3194.8	3185.8	3146.8	3059.8	2966.7	2930.7	2803.1	2732.6
22.5°	3553.4	3570.0	3544.4	3515.9	3487.4	3437.9	3335.8	3233.8	3182.8	3037.2	2951.7
25°	3774.0	3811.5	3781.5	3748.5	3717.0	3658.5	3544.4	3434.9	3371.9	3209.8	3112.2
27.5°	3919.6	3955.6	3922.6	3885.1	3852.0	3784.5	3660.0	3555.0	3478.4	3301.3	3196.3
30°	3924.1	3967.6	3933.1	3892.6	3861.1	3793.6	3666.0	3557.9	3472.4	3295.3	3185.8
32.5°	3816.0	3850.6	3816.0	3781.5	3745.6	3681.0	3553.4	3449.9	3359.9	3190.3	3080.8
35°	3603.0	3633.0	3598.5	3557.9	3532.4	3475.4	3353.9	3254.8	3164.8	3008.7	2912.7
37.5°	3308.8	3335.8	3304.4	3281.8	3244.3	3193.3	3082.2	2993.7	2908.1	2767.1	2681.6
40°	2918.7	2975.7	2945.7	2930.7	2896.2	2852.6	2755.1	2677.0	2599.0	2476.0	2405.5
42.5°	2528.6	2582.6	2555.6	2545.0	2515.0	2477.5	2396.4	2330.5	2258.4	2156.4	2096.3
45°	2100.9	2157.9	2132.3	2127.9	2102.3	2073.9	1986.8	1952.3	1889.3	1793.3	1764.7
47.5°	1698.7	1709.2	1685.2	1686.7	1668.6	1649.1	1578.6	1557.6	1526.1	1452.5	1419.6
50°	1266.5	1274.0	1254.5	1260.5	1248.6	1236.5	1188.5	1178.0	1158.4	1108.9	1089.4
52.5°	871.8	906.3	892.8	898.9	892.8	888.4	868.9	850.8	841.9	810.3	801.3
55°	630.3	633.2	622.8	628.7	624.3	622.8	610.8	600.2	595.8	576.3	573.2
57.5°	436.7	439.7	439.7	436.7	435.2	432.2	424.6	418.7	415.7	411.1	402.2
60°	289.7	301.6	297.2	300.1	298.6	298.6	292.6	288.1	286.6	277.6	277.6
62.5°	198.1	205.6	202.6	204.1	202.6	202.6	198.1	195.1	195.1	193.5	189.1
65°	132.0	136.5	133.6	135.1	135.1	135.1	132.0	129.1	129.1	127.6	124.5
67.5°	84.0	87.1	85.6	87.1	85.6	87.1	84.0	82.5	81.0	81.0	79.6
70°	51.1	52.5	51.1	52.5	51.1	51.1	49.5	49.5	48.0	46.5	46.5
72.5°	27.0	28.5	28.5	28.5	28.5	28.5	27.0	25.5	25.5	25.5	24.1
75°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.0	12.0	12.0
77.5°	6.0	6.0	6.0	6.0	7.5	6.0	6.0	6.0	6.0	6.0	6.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0	4.5
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.5	7.5	6.0	6.0
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3
2.5°	798.3	790.8	787.8	781.8	774.3	769.8	765.4	766.8	756.3	748.8	738.2
5°	999.4	982.8	973.9	960.4	943.9	930.4	918.4	912.4	892.8	879.3	850.8
7.5°	1236.5	1208.0	1190.0	1165.9	1137.4	1113.5	1089.4	1073.0	1042.9	1017.5	973.9
10°	1496.1	1452.5	1421.1	1385.1	1341.5	1302.5	1266.5	1236.5	1191.5	1152.4	1095.4
12.5°	1779.8	1718.2	1673.2	1620.6	1559.1	1505.1	1440.6	1406.1	1344.6	1290.6	1217.0
15°	2081.3	2000.3	1937.3	1865.2	1784.2	1712.2	1629.7	1578.6	1497.6	1428.6	1337.1
17.5°	2370.9	2269.0	2186.3	2094.9	1994.3	1901.2	1803.7	1731.6	1632.7	1547.1	1437.5
20°	2623.1	2501.5	2401.0	2290.0	2171.4	2057.3	1950.8	1854.8	1739.2	1638.7	1514.2
22.5°	2828.7	2687.6	2572.0	2443.0	2306.4	2177.4	2055.8	1946.3	1814.3	1703.2	1566.6
25°	2977.2	2822.6	2693.6	2551.0	2401.0	2253.9	2124.8	2004.8	1860.8	1742.2	1596.7
27.5°	3055.2	2891.7	2755.1	2602.0	2443.0	2290.0	2150.4	2022.8	1871.3	1746.7	1596.7
30°	3041.7	2875.2	2734.1	2576.6	2416.0	2263.0	2117.3	1989.9	1833.8	1707.7	1557.6
32.5°	2938.2	2774.6	2636.6	2483.5	2326.0	2177.4	2031.9	1908.8	1752.7	1629.7	1484.1
35°	2767.1	2612.6	2482.0	2336.4	2187.9	2048.3	1916.3	1791.7	1641.6	1524.6	1388.1
37.5°	2545.0	2403.9	2285.4	2150.4	2013.8	1887.7	1757.2	1650.7	1517.1	1407.6	1274.0
40°	2279.4	2154.9	2049.8	1929.8	1806.8	1697.1	1587.6	1484.1	1353.6	1256.0	1142.0
42.5°	1986.8	1880.2	1790.2	1685.2	1578.6	1485.6	1391.0	1301.0	1192.9	1104.4	997.9
45°	1671.7	1581.6	1508.1	1424.0	1335.5	1248.6	1179.4	1104.4	1003.9	937.9	847.9
47.5°	1346.1	1277.0	1221.5	1157.0	1086.5	1032.4	966.4	906.3	832.8	771.3	697.8
50°	1036.9	988.9	949.9	904.9	853.9	804.3	765.4	718.8	663.2	613.7	555.3
52.5°	766.8	735.3	711.3	681.3	646.8	621.2	585.2	550.7	508.7	471.2	426.2
55°	549.2	531.2	516.2	498.2	474.2	451.6	433.7	409.6	379.7	351.2	318.2
57.5°	394.7	375.1	373.7	354.1	345.2	328.6	312.1	294.1	273.1	253.6	229.6
60°	273.1	259.6	253.6	246.1	235.6	225.1	217.6	205.6	190.6	177.1	159.0
62.5°	184.6	175.6	172.5	169.6	160.6	156.1	147.1	139.6	129.1	118.5	106.6
65°	121.6	115.5	112.6	108.1	103.5	100.6	96.0	90.0	81.0	75.0	67.5
67.5°	76.5	72.1	69.0	67.5	63.0	61.5	57.0	54.0	48.0	45.1	40.5
70°	43.5	42.0	39.0	39.0	36.0	33.0	31.5	28.5	27.0	24.1	22.5
72.5°	22.5	22.5	21.0	19.5	18.0	18.0	16.5	15.0	13.5	12.0	12.0
75°	10.4	10.4	10.4	9.0	9.0	9.0	7.5	7.5	7.5	6.0	6.0
77.5°	6.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	4.5	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5
87.5°	4.5	4.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3
2.5°	730.8	727.8	720.3	718.8	702.3	699.3	690.2	676.7	666.3	663.2	666.3
5°	840.4	826.9	804.3	799.9	772.9	763.8	744.3	723.3	705.3	694.8	690.2
7.5°	952.9	930.4	897.4	880.8	841.9	822.3	793.9	763.8	735.3	715.8	703.7
10°	1060.9	1024.9	964.9	951.4	903.4	871.8	832.8	792.3	756.3	729.3	709.8
12.5°	1163.0	1119.5	1058.0	1020.4	957.4	916.9	867.3	817.8	772.9	736.8	709.8
15°	1268.0	1211.0	1134.5	1081.9	1009.9	955.8	895.9	838.8	786.4	741.3	708.3
17.5°	1355.0	1284.5	1194.5	1131.4	1047.4	982.8	913.8	847.9	790.8	739.8	702.3
20°	1419.6	1337.1	1234.9	1161.5	1068.4	996.4	921.3	849.4	786.4	730.8	690.2
22.5°	1463.1	1368.5	1257.5	1176.5	1079.0	1000.9	919.9	844.8	780.3	723.3	679.8
25°	1484.1	1382.0	1266.5	1179.4	1077.4	996.4	912.4	835.9	769.8	711.3	669.2
27.5°	1481.1	1373.1	1254.5	1163.0	1059.5	975.4	889.9	813.4	748.8	690.2	646.8
30°	1437.5	1331.1	1211.0	1117.9	1015.9	931.9	846.3	771.3	708.3	648.2	607.7
32.5°	1370.0	1260.5	1143.5	1039.9	952.9	870.4	789.3	712.8	652.8	594.2	555.3
35°	1278.5	1173.4	1060.9	972.4	877.9	798.3	720.3	648.2	591.2	534.3	498.2
37.5°	1171.9	1071.4	967.9	876.4	793.9	720.3	646.8	582.3	525.2	474.2	439.7
40°	1048.9	955.8	861.4	783.3	702.3	634.7	567.2	504.2	457.7	411.1	381.2
42.5°	915.4	832.8	747.3	679.8	606.2	546.2	481.7	436.7	391.7	349.6	325.6
45°	775.8	703.7	631.8	570.2	510.2	457.7	402.2	360.2	325.6	291.1	270.1
47.5°	637.8	576.3	517.7	468.2	415.7	372.2	333.1	295.6	262.6	234.1	217.6
50°	498.2	457.7	411.1	370.6	328.6	292.6	256.6	229.6	204.1	183.1	172.5
52.5°	388.6	351.2	313.6	280.6	250.6	220.5	196.6	174.1	156.1	142.6	135.1
55°	289.7	259.6	231.1	205.6	181.6	162.1	145.5	132.0	120.1	109.5	106.6
57.5°	207.0	184.6	165.0	145.5	130.5	118.5	108.1	99.1	91.5	84.0	82.5
60°	144.0	127.6	115.5	103.5	94.5	85.6	79.6	73.5	67.5	63.0	61.5
62.5°	96.0	87.1	78.0	72.1	67.5	60.0	57.0	52.5	49.5	45.1	43.5
65°	61.5	55.5	51.1	46.5	43.5	40.5	37.6	34.5	31.5	28.5	28.5
67.5°	37.6	33.0	31.5	28.5	25.5	24.1	22.5	19.5	18.0	18.0	16.5
70°	21.0	18.0	16.5	15.0	13.5	13.5	12.0	10.4	10.4	9.0	9.0
72.5°	10.4	10.4	9.0	9.0	7.5	7.5	6.0	6.0	6.0	4.5	4.5
75°	6.0	6.0	4.5	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	4.5	4.5	4.5	4.5	4.5	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P1191754

CATALOG NUMBER: LDA4A25940D010TE LAR25NF 4LLWW1

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	112.5°	135°	157.5°	180°
0°	639.3	639.3	639.3	639.3	639.3	639.3	639.3	639.3
2.5°	654.2	639.3	636.3	636.3	573.2	535.7	507.2	499.7
5°	669.2	648.2	637.8	631.8	519.2	453.2	409.6	397.6
7.5°	676.7	646.8	630.3	616.8	466.7	381.2	334.6	321.1
10°	673.8	637.8	615.2	597.3	418.7	325.6	277.6	265.6
12.5°	667.8	627.2	598.7	576.3	378.2	282.1	238.6	226.6
15°	661.7	615.2	582.3	555.3	345.2	252.1	213.1	202.6
17.5°	649.7	601.7	564.2	535.7	324.2	240.1	207.0	201.1
20°	636.3	586.7	547.8	519.2	318.2	252.1	232.6	232.6
22.5°	627.2	576.3	538.7	510.2	328.6	280.6	273.1	277.6
25°	615.2	567.2	529.7	502.7	339.2	303.2	298.6	304.6
27.5°	595.8	547.8	511.7	484.7	333.1	300.1	295.6	298.6
30°	556.7	510.2	478.7	450.2	309.1	277.6	270.1	271.6
32.5°	507.2	462.2	432.2	405.2	274.6	244.6	237.1	237.1
35°	453.2	411.1	382.6	358.7	241.5	214.6	207.0	205.6
37.5°	399.2	360.2	336.1	313.6	211.6	187.6	180.0	178.5
40°	345.2	310.7	288.1	270.1	186.0	166.5	159.0	157.5
42.5°	294.1	264.1	244.6	229.6	162.1	147.1	141.1	139.6
45°	243.1	219.1	204.1	192.1	141.1	126.1	124.5	124.5
47.5°	196.6	177.1	166.5	159.0	120.1	108.1	106.6	108.1
50°	157.5	144.0	136.5	130.5	102.0	91.5	87.1	87.1
52.5°	124.5	115.5	111.0	106.6	84.0	73.5	67.5	66.1
55°	99.1	91.5	88.5	85.6	66.1	54.0	48.0	46.5
57.5°	78.0	72.1	69.0	66.1	49.5	37.6	31.5	30.0
60°	58.6	54.0	51.1	49.5	34.5	22.5	18.0	16.5
62.5°	42.0	39.0	36.0	34.5	21.0	12.0	7.5	6.0
65°	25.5	25.5	22.5	21.0	10.4	4.5	3.0	1.5
67.5°	15.0	13.5	12.0	12.0	4.5	3.0	1.5	1.5
70°	7.5	7.5	6.0	6.0	3.0	1.5	1.5	1.5
72.5°	4.5	4.5	4.5	3.0	3.0	1.5	1.5	1.5
75°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5
77.5°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	0.0
80°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	0.0
82.5°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5
85°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)