

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: P1191724

Luminaire Tested: **LDA4A25930D010TE LAR35FL 4LLWW1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1191724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26103)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA4A25930D010TE LAR35FL 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 35° Flood Optic, at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

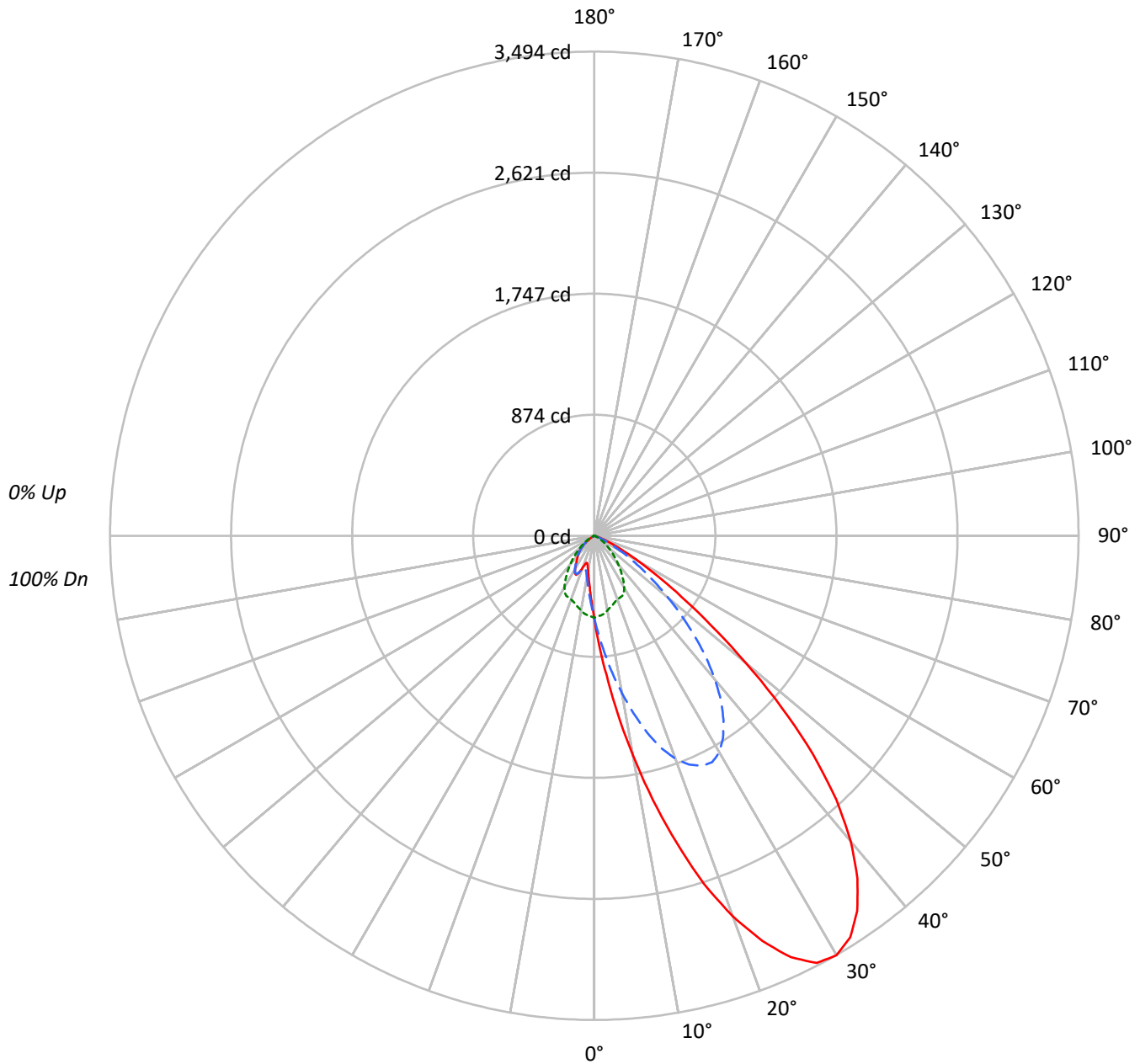
Lumens per Lamp: N/A
Luminaire Lumens: 2218.3 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 2.19 / 1.11 / 1.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1191724

CATALOG NUMBER: LDA4A25930D010TE LAR35FL 4LLWW1

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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	92	88	102	96	91	87		93	89	85		89	86	83		87	84	81
3	97	88	82	76	94	87	81	76		84	79	75		81	77	73		79	75	72
4	90	80	72	67	87	78	72	66		76	70	66		74	69	65		72	67	64
5	83	72	64	59	81	71	64	59		69	63	58		67	62	57		65	61	57
6	77	66	58	52	75	65	57	52		63	56	52		61	56	51		60	55	51
7	72	60	52	46	70	59	52	46		57	51	46		56	50	46		55	50	45
8	67	55	47	42	65	54	47	42		53	46	41		52	46	41		50	45	41
9	62	50	43	38	61	50	42	37		49	42	37		47	41	37		47	41	37
10	58	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	73070	73070	73070
5°	124696	71281	46555
10°	201550	68461	31788
15°	292822	65726	25871
20°	383481	64279	32238
25°	456714	65136	42476
30°	497712	61443	39524
35°	497778	52431	33428
40°	463260	43329	29047
45°	389117	33876	24927
50°	273139	25291	18364
55°	164382	18193	10129
60°	90684	11619	3750
65°	43721	5662	409
70°	17491	2020	505
75°	5290	1287	0
80°	1918	1918	0
85°	5802	3821	0



TEST NUMBER: P1191724

CATALOG NUMBER: LDA4A25930D010TE LAR35FL 4LLWW1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	2.9
10°-20°	251.8	11.4
20°-30°	510.6	23.0
30°-40°	620.5	28.0
40°-50°	489.6	22.1
50°-60°	221.8	10.0
60°-70°	52.3	2.4
70°-80°	5.6	0.3
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°	826.0	37.2
0°-40°	1446.5	65.2
0°-60°	2157.8	97.3
0°-90°	2218.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	592	592	592	592	592	
5°	1007	848	576	422	376	115
15°	2293	1469	515	244	203	667
25°	3356	1833	479	305	312	1536
35°	3306	1624	348	226	222	2041
45°	2231	1025	194	142	143	1688
55°	764	419	85	57	47	722
65°	150	89	19	4	1	169
75°	11	6	3	1	0	17
85°	4	4	3	1	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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	786.6	767.2	767.2	753.3	764.4	742.2	746.3	745.0	758.8	754.7	742.2
5°	1007.1	990.5	989.2	971.1	984.9	955.8	957.2	953.0	968.3	953.0	935.1
7.5°	1291.6	1262.4	1261.0	1240.2	1254.1	1216.7	1215.2	1206.9	1220.8	1191.6	1165.3
10°	1609.2	1567.6	1564.8	1539.8	1555.1	1506.5	1502.4	1488.5	1498.3	1452.4	1415.0
12.5°	1949.1	1903.3	1897.8	1871.4	1885.2	1827.0	1815.9	1797.8	1802.1	1735.5	1685.5
15°	2293.1	2254.3	2248.7	2220.9	2234.9	2162.7	2144.6	2122.5	2118.3	2029.6	1965.7
17.5°	2635.8	2556.7	2581.7	2553.9	2566.5	2481.8	2458.2	2430.5	2415.3	2305.6	2225.2
20°	2921.5	2853.6	2871.6	2846.6	2857.7	2760.6	2731.5	2696.9	2670.5	2538.7	2445.7
22.5°	3163.0	3092.2	3082.5	3082.5	3089.4	2984.0	2945.2	2906.3	2868.8	2712.1	2617.7
25°	3355.8	3278.0	3266.9	3264.2	3265.6	3154.6	3108.9	3065.9	3017.3	2845.2	2742.6
27.5°	3475.1	3393.2	3380.8	3379.4	3372.4	3258.7	3207.3	3160.1	3101.9	2925.7	2810.6
30°	3494.5	3419.5	3405.7	3405.7	3387.6	3276.7	3219.8	3169.8	3104.6	2927.1	2803.6
32.5°	3436.2	3359.9	3344.6	3346.1	3316.9	3212.8	3151.9	3100.5	3032.6	2857.7	2730.2
35°	3305.8	3232.3	3218.4	3219.8	3183.8	3086.7	3022.9	2972.9	2900.7	2734.3	2603.9
37.5°	3118.6	3049.2	3035.3	3038.1	2993.7	2906.3	2841.1	2794.0	2720.4	2566.5	2438.8
40°	2877.1	2810.6	2798.1	2799.5	2751.0	2674.7	2610.9	2566.5	2492.9	2355.6	2233.5
42.5°	2584.4	2520.6	2510.9	2509.5	2462.4	2393.0	2330.6	2293.1	2218.2	2108.6	1992.1
45°	2230.7	2176.6	2133.6	2162.7	2114.2	2058.6	2000.4	1969.9	1899.2	1821.5	1717.4
47.5°	1832.6	1785.4	1742.4	1770.2	1725.8	1684.1	1632.8	1613.3	1549.5	1509.4	1422.0
50°	1423.4	1383.1	1344.2	1367.9	1333.1	1305.4	1265.2	1255.4	1202.7	1197.2	1129.3
52.5°	1057.1	1027.9	997.4	1015.5	989.2	971.1	940.6	937.8	897.5	911.4	864.3
55°	764.4	743.6	720.0	733.9	714.4	703.3	681.1	682.5	652.0	672.8	639.5
57.5°	541.0	524.3	507.7	516.1	503.6	495.3	479.9	482.8	475.8	482.8	459.1
60°	367.6	357.9	345.4	352.4	341.3	337.1	327.4	328.7	312.1	334.3	317.6
62.5°	241.3	234.5	234.5	230.3	222.0	219.2	213.7	213.7	203.9	220.5	209.4
65°	149.8	147.1	145.6	142.9	137.4	136.0	131.8	131.8	124.9	137.4	129.0
67.5°	88.8	87.4	86.0	84.6	80.4	79.0	77.7	76.3	72.2	80.4	74.9
70°	48.5	48.5	47.1	45.8	43.0	43.0	41.6	41.6	38.9	43.0	38.9
72.5°	23.6	23.6	22.2	22.2	20.8	20.8	19.4	19.4	18.1	20.8	18.1
75°	11.1	11.1	9.7	9.7	9.7	9.7	8.3	8.3	8.3	9.7	8.3
77.5°	5.6	5.6	5.6	5.6	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	2.7	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
85°	4.1	4.1	4.1	4.1	5.6	4.1	5.6	5.6	5.6	5.6	5.6
87.5°	5.6	5.6	5.6	5.6	5.6	7.0	7.0	7.0	5.6	7.0	5.6
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: P1191724

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	67.5°	90°	112.5°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	746.3	735.2	739.4	726.9	717.2	713.0	713.0	711.7	646.5	581.3	535.5
5°	933.6	912.8	915.6	893.4	883.7	869.9	865.6	847.6	706.1	575.7	486.9
7.5°	1155.6	1125.1	1107.0	1086.3	1073.7	1048.8	1036.3	1000.3	761.7	564.6	439.8
10°	1394.2	1351.2	1322.0	1288.7	1276.3	1237.5	1213.8	1152.8	810.2	546.6	395.4
12.5°	1652.2	1593.9	1541.3	1505.1	1489.9	1415.0	1399.8	1312.3	854.5	529.9	359.3
15°	1917.1	1843.7	1777.0	1725.8	1706.3	1632.8	1585.7	1469.1	893.4	514.7	331.6
17.5°	2153.0	2074.0	1993.4	1926.9	1899.2	1795.1	1750.7	1606.5	922.5	499.4	316.3
20°	2362.5	2266.8	2182.2	2090.5	2058.6	1940.8	1868.6	1713.3	939.2	489.7	317.6
22.5°	2522.0	2412.4	2315.3	2212.7	2172.4	2043.4	1961.5	1786.7	944.7	482.8	327.4
25°	2638.5	2516.5	2408.3	2295.9	2248.7	2111.4	2021.2	1832.6	943.3	478.6	331.6
27.5°	2698.2	2567.8	2451.3	2330.6	2279.3	2137.8	2040.7	1842.2	924.0	462.0	331.6
30°	2689.9	2552.5	2430.5	2305.6	2250.1	2110.0	2010.1	1804.8	882.3	431.4	307.9
32.5°	2616.3	2476.2	2351.4	2226.5	2171.1	2033.7	1933.8	1728.5	822.6	391.2	276.1
35°	2494.3	2355.6	2232.1	2110.0	2054.5	1921.4	1824.3	1624.4	754.7	348.2	246.9
37.5°	2334.7	2200.2	2080.9	1969.9	1906.0	1781.2	1686.9	1501.0	679.8	309.4	222.0
40°	2136.4	2008.8	1896.3	1793.7	1725.8	1610.6	1524.6	1355.3	600.7	269.1	198.3
42.5°	1907.4	1788.1	1696.6	1593.9	1517.6	1416.4	1341.5	1194.5	520.2	233.1	173.4
45°	1648.0	1542.7	1463.5	1373.4	1294.3	1208.3	1144.5	1025.2	438.4	194.2	149.8
47.5°	1369.2	1281.9	1220.8	1145.9	1068.2	998.8	948.9	853.2	360.6	162.3	127.6
50°	1094.5	1025.2	980.8	924.0	853.2	800.4	761.7	697.8	285.7	131.8	106.8
52.5°	842.1	792.1	761.7	720.0	657.6	621.4	593.7	549.4	217.8	106.8	86.0
55°	628.4	592.4	572.9	543.8	489.7	464.7	446.7	419.0	162.3	84.6	66.6
57.5°	453.6	430.1	417.6	398.2	353.8	338.5	326.0	309.4	117.9	65.2	48.5
60°	316.3	299.7	292.7	280.2	244.2	234.5	217.8	217.8	83.3	47.1	33.3
62.5°	209.4	198.3	195.6	185.9	158.2	152.6	148.5	145.6	56.9	31.9	19.4
65°	130.4	122.0	120.7	115.2	95.7	93.0	88.8	88.8	36.0	19.4	9.7
67.5°	74.9	70.8	69.3	66.6	52.7	51.4	48.5	51.4	20.8	9.7	4.1
70°	40.3	36.0	36.0	34.7	26.3	24.9	23.6	24.9	11.1	5.6	2.7
72.5°	19.4	16.7	16.7	15.2	11.1	11.1	9.7	12.5	5.6	2.7	2.7
75°	8.3	8.3	7.0	7.0	4.1	4.1	4.1	5.6	2.7	2.7	2.7
77.5°	4.1	4.1	4.1	4.1	1.4	1.4	1.4	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	0.0	0.0	0.0	2.7	2.7	2.7	2.7
82.5°	2.7	1.4	1.4	1.4	0.0	0.0	0.0	1.4	2.7	2.7	2.7
85°	4.1	4.1	4.1	4.1	2.7	2.7	2.7	4.1	2.7	2.7	2.7
87.5°	5.6	5.6	5.6	5.6	4.1	4.1	4.1	7.0	4.1	2.7	2.7
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

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	592.4	592.4	592.4
2.5°	496.6	467.5	470.2
5°	421.7	380.1	376.0
7.5°	356.5	312.1	306.5
10°	305.2	260.8	253.8
12.5°	267.8	227.5	220.5
15°	244.2	208.1	202.6
17.5°	240.0	212.3	209.4
20°	256.7	242.7	245.6
22.5°	285.7	281.6	288.6
25°	305.2	303.8	312.1
27.5°	301.0	298.3	303.8
30°	278.9	274.6	277.5
32.5°	252.4	245.6	248.3
35°	226.1	220.5	222.0
37.5°	203.9	199.7	199.7
40°	184.5	180.4	180.4
42.5°	163.7	160.9	162.3
45°	141.5	140.1	142.9
47.5°	119.3	117.9	120.7
50°	98.5	95.7	95.7
52.5°	77.7	73.5	70.8
55°	56.9	50.0	47.1
57.5°	38.9	31.9	29.2
60°	22.2	18.1	15.2
62.5°	11.1	7.0	5.6
65°	4.1	2.7	1.4
67.5°	2.7	1.4	1.4
70°	2.7	1.4	1.4
72.5°	1.4	1.4	1.4
75°	1.4	1.4	0.0
77.5°	1.4	1.4	1.4
80°	1.4	1.4	0.0
82.5°	1.4	1.4	0.0
85°	1.4	1.4	0.0
87.5°	1.4	1.4	0.0
90°	0.0	0.0	0.0

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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1121 Highway 74 South

Peachtree City, GA 30269



— 0°-180° - - 45°-225° - - - 90°-270°

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Peachtree City, GA 30269

Scaled Data Report



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(END OF REPORT)