

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: P1212797

Luminaire Tested: **LDA4A25950D010TE LAR35FL 4LLWW1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P1212797
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: LDA4A25950D010TE LAR35FL 4LLWW1
Description: PORTFOLIO 4" Lensed Wall Wash, Self-flanged, 35° Flood Optic, at 30° tilt
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

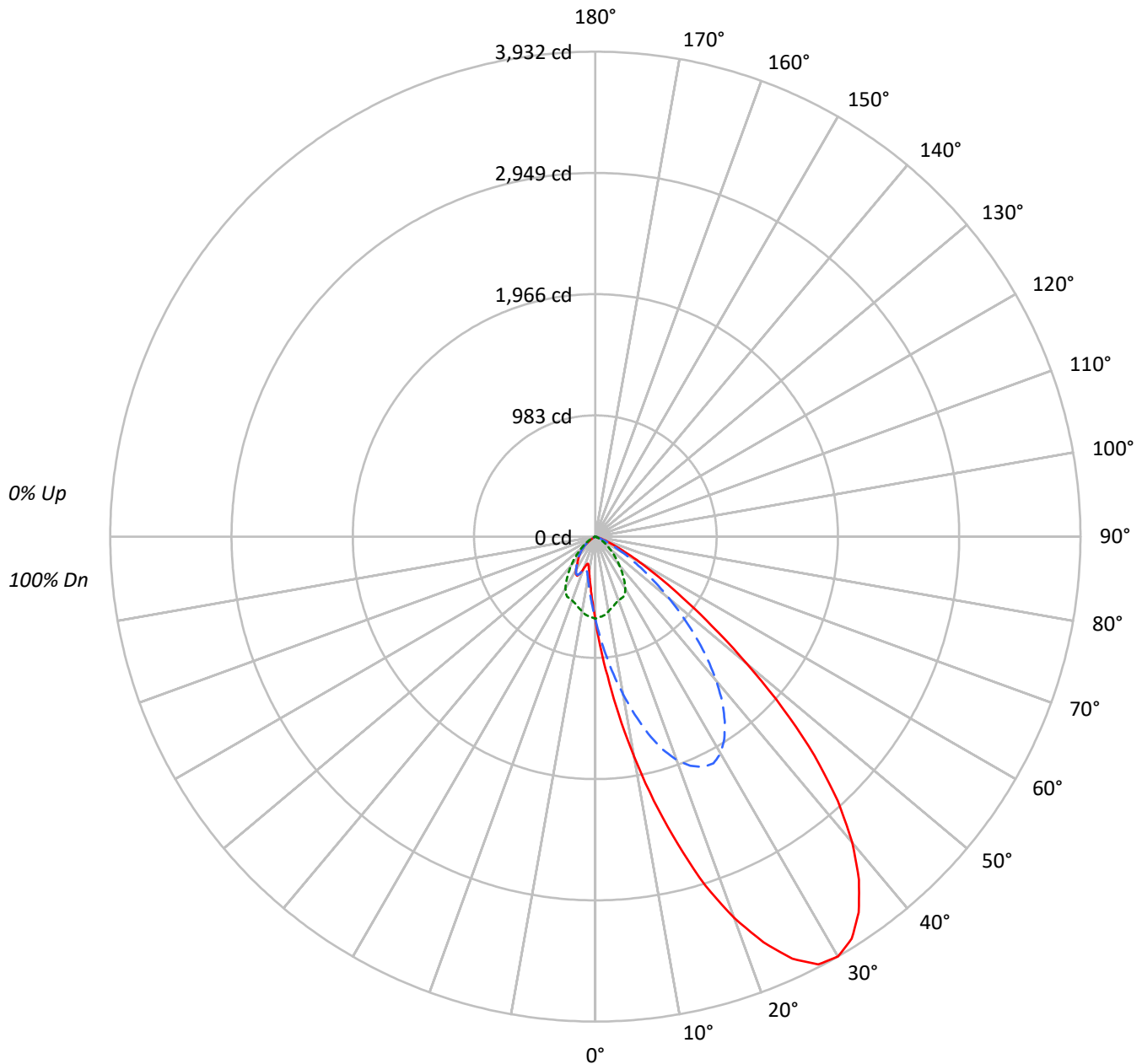
Lumens per Lamp: N/A
Luminaire Lumens: 2496.3 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 2.19 / 1.11 / 1.55
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P1212797

CATALOG NUMBER: LDA4A25950D010TE 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	92	88	102	96	91	87	93	89	85		89	86	83		87
3	97	88	82	76	94	87	81	76	84	79	75		81	77	73		79
4	90	80	72	67	87	78	72	66	76	70	66		74	69	65		72
5	83	72	64	59	81	71	64	59	69	63	58		67	62	57		65
6	77	66	58	52	75	65	57	52	63	56	52		61	56	51		60
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50
9	62	50	43	38	61	50	42	37	49	42	37		47	41	37		47
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82210	82210	82210
5°	140322	80209	52387
10°	226787	77040	35771
15°	329496	73962	29102
20°	431523	72338	36268
25°	513915	73288	47811
30°	560052	69148	44466
35°	560147	58996	37599
40°	521306	48756	32686
45°	437854	38114	28049
50°	307353	28458	20648
55°	184983	20472	11419
60°	102056	13099	4243
65°	49208	6363	467
70°	19727	2236	577
75°	5957	1477	0
80°	2202	2202	0
85°	6652	4387	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	2.9
10°-20°	283.3	11.4
20°-30°	574.6	23.0
30°-40°	698.2	28.0
40°-50°	550.9	22.1
50°-60°	249.6	10.0
60°-70°	58.9	2.4
70°-80°	6.4	0.3
80°-90°	2.8	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°	929.5	37.2
0°-40°	1627.7	65.2
0°-60°	2428.2	97.3
0°-90°	2496.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	666	666	666	666	666	
5°	1133	954	648	475	423	129
15°	2580	1653	579	275	228	751
25°	3776	2062	538	344	351	1728
35°	3720	1828	392	254	250	2297
45°	2510	1154	218	159	161	1899
55°	860	471	95	64	53	812
65°	169	100	22	5	2	190
75°	12	6	3	2	0	19
85°	5	5	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°	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5
2.5°	885.0	863.2	863.2	847.6	860.2	835.1	839.9	838.3	853.9	849.2	835.1
5°	1133.3	1114.6	1113.1	1092.7	1108.3	1075.6	1077.1	1072.4	1089.6	1072.4	1052.2
7.5°	1453.4	1420.5	1419.0	1395.5	1411.2	1369.1	1367.4	1358.1	1373.6	1341.0	1311.3
10°	1810.7	1764.0	1760.8	1732.7	1750.0	1695.3	1690.6	1675.0	1685.9	1634.4	1592.2
12.5°	2193.3	2141.8	2135.5	2105.9	2121.4	2055.9	2043.4	2023.1	2027.8	1952.8	1896.6
15°	2580.3	2536.7	2530.4	2499.2	2514.8	2433.6	2413.3	2388.4	2383.7	2283.8	2212.0
17.5°	2966.0	2877.0	2905.1	2873.9	2888.0	2792.7	2766.1	2735.0	2717.8	2594.5	2503.9
20°	3287.5	3211.0	3231.4	3203.2	3215.8	3106.5	3073.7	3034.6	3005.0	2856.7	2752.0
22.5°	3559.2	3479.5	3468.6	3468.6	3476.4	3357.7	3314.1	3270.4	3228.3	3051.9	2945.7
25°	3776.1	3688.8	3676.2	3673.2	3674.7	3549.7	3498.2	3449.9	3395.2	3201.7	3086.2
27.5°	3910.4	3818.3	3804.2	3802.7	3794.9	3666.9	3609.1	3556.1	3490.4	3292.2	3162.7
30°	3932.2	3847.9	3832.3	3832.3	3812.0	3687.2	3623.3	3567.0	3493.6	3293.8	3154.8
32.5°	3866.7	3780.8	3763.8	3765.2	3732.5	3615.5	3546.7	3489.0	3412.4	3215.8	3072.2
35°	3720.0	3637.3	3621.6	3623.3	3582.6	3473.3	3401.5	3345.3	3264.1	3076.7	2930.1
37.5°	3509.3	3431.3	3415.6	3418.7	3368.8	3270.4	3197.0	3143.9	3061.1	2888.0	2744.2
40°	3237.6	3162.7	3148.7	3150.2	3095.6	3009.7	2937.9	2888.0	2805.2	2650.6	2513.4
42.5°	2908.3	2836.4	2825.5	2824.0	2770.9	2692.8	2622.6	2580.3	2496.1	2372.8	2241.6
45°	2510.1	2449.3	2400.9	2433.6	2379.1	2316.6	2251.1	2216.8	2137.0	2049.6	1932.5
47.5°	2062.1	2009.1	1960.6	1991.9	1942.0	1895.1	1837.4	1815.5	1743.7	1698.4	1600.0
50°	1601.7	1556.4	1512.7	1539.2	1500.1	1469.0	1423.7	1412.7	1353.4	1347.2	1270.7
52.5°	1189.4	1156.8	1122.4	1142.8	1113.1	1092.7	1058.4	1055.2	1010.0	1025.5	972.6
55°	860.2	836.7	810.3	825.8	803.9	791.4	766.4	768.0	733.7	757.1	719.7
57.5°	608.8	590.0	571.4	580.7	566.6	557.3	540.1	543.3	535.5	543.3	516.7
60°	413.7	402.8	388.6	396.4	384.0	379.4	368.4	369.9	351.3	376.2	357.6
62.5°	271.5	263.7	263.7	259.2	249.7	246.7	240.4	240.4	229.4	248.1	235.7
65°	168.6	165.5	163.9	160.8	154.5	153.0	148.3	148.3	140.5	154.5	145.2
67.5°	99.9	98.4	96.8	95.2	90.6	89.0	87.4	85.8	81.1	90.6	84.3
70°	54.7	54.7	53.1	51.5	48.4	48.4	46.9	46.9	43.7	48.4	43.7
72.5°	26.5	26.5	25.1	25.1	23.4	23.4	21.8	21.8	20.3	23.4	20.3
75°	12.5	12.5	11.0	11.0	11.0	11.0	9.4	9.4	9.4	11.0	9.4
77.5°	6.2	6.2	6.2	6.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	4.7	4.7	4.7	4.7	6.2	4.7	6.2	6.2	6.2	6.2	6.2
87.5°	6.2	6.2	6.2	6.2	6.2	7.8	7.8	7.8	6.2	7.8	6.2
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°	67.5°	90°	112.5°
0°	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5	666.5
2.5°	839.9	827.3	832.1	818.1	807.0	802.5	802.5	800.8	727.5	654.2	602.6
5°	1050.6	1027.1	1030.3	1005.3	994.4	978.8	974.1	953.8	794.6	647.8	548.0
7.5°	1300.3	1266.0	1245.7	1222.3	1208.3	1180.2	1166.0	1125.5	857.0	635.3	494.8
10°	1568.8	1520.5	1487.7	1450.2	1436.1	1392.5	1365.8	1297.3	911.7	615.1	444.9
12.5°	1859.2	1793.7	1734.3	1693.7	1676.6	1592.2	1575.1	1476.8	961.6	596.2	404.2
15°	2157.4	2074.7	1999.7	1942.0	1920.2	1837.4	1784.2	1653.2	1005.3	579.2	373.2
17.5°	2422.8	2333.8	2243.2	2168.3	2137.0	2020.0	1970.1	1807.7	1038.1	562.0	355.9
20°	2658.4	2550.7	2455.4	2352.5	2316.6	2183.9	2102.8	1928.0	1056.8	551.1	357.6
22.5°	2838.1	2714.6	2605.4	2489.9	2444.6	2299.3	2207.3	2010.5	1063.0	543.3	368.4
25°	2969.1	2831.7	2709.9	2583.6	2530.4	2375.9	2274.5	2062.1	1061.5	538.5	373.2
27.5°	3036.3	2889.5	2758.3	2622.6	2564.8	2405.5	2296.3	2073.0	1039.7	519.9	373.2
30°	3026.8	2872.3	2735.0	2594.5	2532.0	2374.3	2261.9	2030.9	992.8	485.5	346.5
32.5°	2944.1	2786.5	2646.0	2505.6	2443.1	2288.5	2176.1	1945.0	925.7	440.2	310.6
35°	2806.8	2650.6	2511.7	2374.3	2311.9	2162.1	2052.8	1828.0	849.2	391.8	277.8
37.5°	2627.2	2475.8	2341.6	2216.8	2144.8	2004.4	1898.3	1689.1	764.9	348.1	249.7
40°	2404.0	2260.4	2134.0	2018.4	1942.0	1812.3	1715.6	1525.2	676.0	302.8	223.3
42.5°	2146.5	2012.2	1909.1	1793.7	1707.8	1593.9	1509.6	1344.0	585.4	262.3	195.2
45°	1854.4	1736.0	1646.9	1545.4	1456.4	1359.6	1287.8	1153.6	493.3	218.5	168.6
47.5°	1540.8	1442.4	1373.6	1289.4	1202.0	1123.9	1067.8	960.0	405.8	182.6	143.6
50°	1231.7	1153.6	1103.6	1039.7	960.0	900.6	857.0	785.2	321.7	148.3	120.2
52.5°	947.5	891.4	857.0	810.3	740.0	699.4	668.2	618.1	245.1	120.2	96.8
55°	707.1	666.5	644.7	611.9	551.1	522.9	502.6	471.4	182.6	95.2	75.0
57.5°	510.4	484.0	470.0	447.9	398.0	381.0	366.8	348.1	132.7	73.3	54.7
60°	355.9	337.2	329.5	315.3	274.8	263.7	245.1	245.1	93.6	53.1	37.4
62.5°	235.7	223.3	220.1	209.2	177.9	171.7	167.0	163.9	64.0	35.9	21.8
65°	146.7	137.3	135.8	129.5	107.6	104.6	99.9	99.9	40.7	21.8	11.0
67.5°	84.3	79.6	78.0	75.0	59.3	57.7	54.7	57.7	23.4	11.0	4.7
70°	45.2	40.7	40.7	39.1	29.6	28.1	26.5	28.1	12.5	6.2	3.1
72.5°	21.8	18.7	18.7	17.2	12.5	12.5	11.0	14.0	6.2	3.1	3.1
75°	9.4	9.4	7.8	7.8	4.7	4.7	4.7	6.2	3.1	3.1	3.1
77.5°	4.7	4.7	4.7	4.7	1.6	1.6	1.6	3.1	3.1	3.1	3.1
80°	3.1	3.1	3.1	3.1	0.0	0.0	0.0	3.1	3.1	3.1	3.1
82.5°	3.1	1.6	1.6	1.6	0.0	0.0	0.0	1.6	3.1	3.1	3.1
85°	4.7	4.7	4.7	4.7	3.1	3.1	3.1	4.7	3.1	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	4.7	4.7	4.7	7.8	4.7	3.1	3.1
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):

	135°	157.5°	180°
0°	666.5	666.5	666.5
2.5°	558.9	526.0	529.3
5°	474.6	427.8	423.1
7.5°	401.2	351.3	345.0
10°	343.5	293.4	285.6
12.5°	301.3	255.9	248.1
15°	274.8	234.1	227.9
17.5°	270.1	238.9	235.7
20°	288.8	273.2	276.3
22.5°	321.7	316.9	324.7
25°	343.5	341.8	351.3
27.5°	338.7	335.7	341.8
30°	313.8	309.1	312.2
32.5°	284.1	276.3	279.4
35°	254.5	248.1	249.7
37.5°	229.4	224.8	224.8
40°	207.6	203.0	203.0
42.5°	184.2	181.2	182.6
45°	159.1	157.7	160.8
47.5°	134.3	132.7	135.8
50°	110.9	107.6	107.6
52.5°	87.4	82.8	79.6
55°	64.0	56.2	53.1
57.5°	43.7	35.9	32.9
60°	25.1	20.3	17.2
62.5°	12.5	7.8	6.2
65°	4.7	3.1	1.6
67.5°	3.1	1.6	1.6
70°	3.1	1.6	1.6
72.5°	1.6	1.6	1.6
75°	1.6	1.6	0.0
77.5°	1.6	1.6	1.6
80°	1.6	1.6	0.0
82.5°	1.6	1.6	0.0
85°	1.6	1.6	0.0
87.5°	1.6	1.6	0.0
90°	0.0	0.0	0.0

Classified

Scaled Data Report

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



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— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)