

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: P283559

Luminaire Tested: **LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108035D010 EU2B10FL408035 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 908.6 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

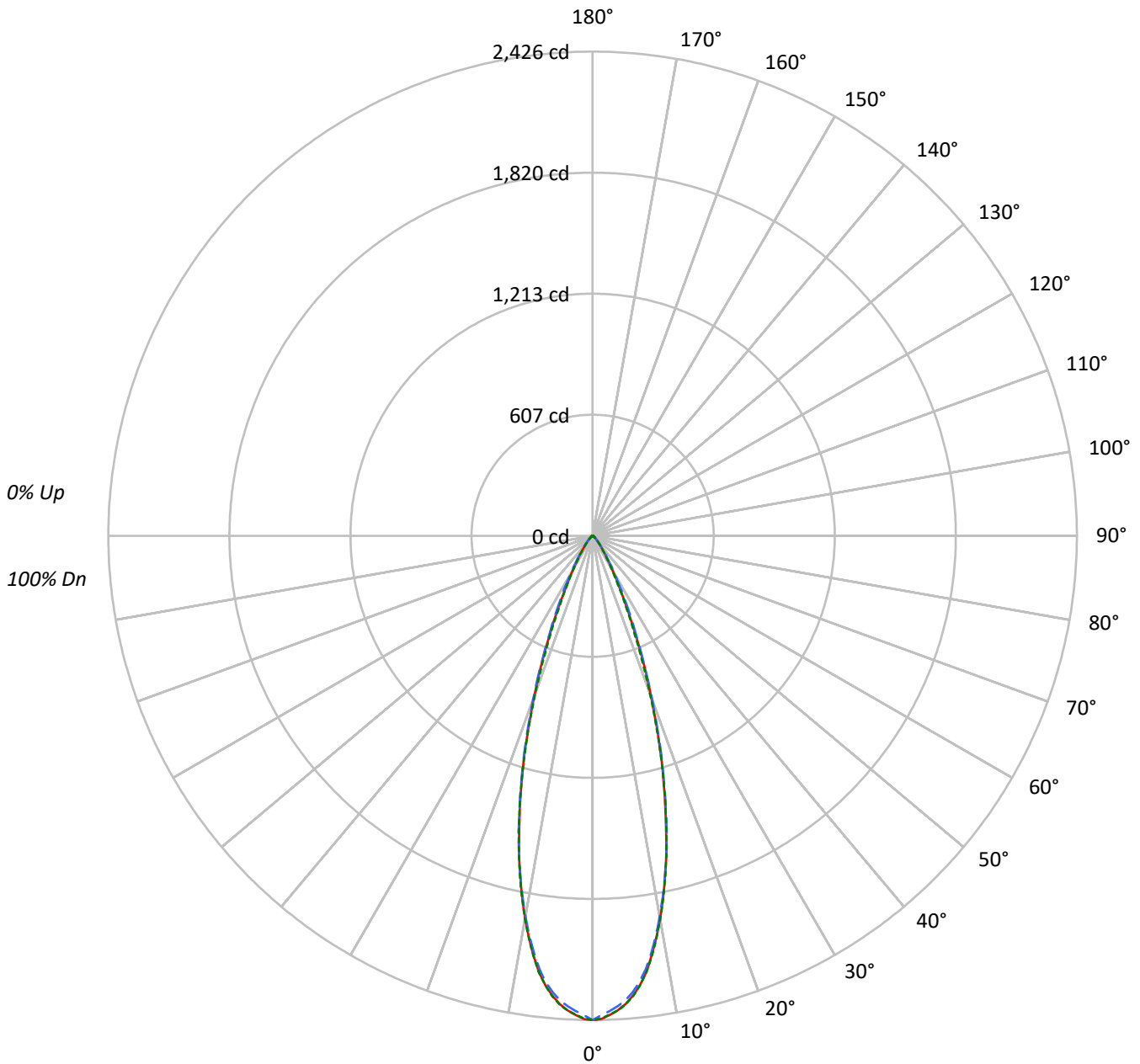
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1197142	1197142	1197142
5°	1145703	1137086	1147436
10°	976095	969933	977097
15°	719413	724113	721763
20°	449106	457401	439183
25°	232008	248938	220359
30°	111203	127496	106018
35°	57398	63541	53724
40°	32202	33812	30527
45°	19536	19536	18838
50°	10208	12511	10208
55°	5247	8343	5677
60°	6019	6019	6019
65°	6537	6537	6537
70°	8078	7357	8078
75°	7815	7815	7815
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	23.0
10°-20°	383.4	42.2
20°-30°	207.9	22.9
30°-40°	66.7	7.3
40°-50°	22.7	2.5
50°-60°	8.0	0.9
60°-70°	5.8	0.6
70°-80°	4.2	0.5
80°-90°	1.2	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°	800.0	88.0
0°-40°	866.7	95.4
0°-60°	897.4	98.8
0°-90°	908.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2426	2426	2426	2426	2426	
5°	2313	2299	2296	2319	2317	209
15°	1408	1420	1418	1424	1413	382
25°	426	446	457	426	405	204
35°	95	99	106	96	89	64
45°	28	28	28	28	27	22
55°	6	8	10	8	7	7
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2426.5	2426.5	2426.5	2426.5	2426.5
1°	2422.5	2405.1	2402.6	2425.0	2419.9
2°	2403.1	2386.8	2384.2	2406.7	2402.1
3°	2381.7	2366.9	2361.8	2385.2	2382.2
4°	2353.1	2339.4	2334.8	2358.2	2355.7
5°	2313.4	2299.1	2296.0	2319.0	2316.9
6°	2264.4	2252.7	2247.1	2270.0	2266.0
7°	2203.3	2192.6	2186.4	2203.3	2205.3
8°	2123.7	2118.6	2111.5	2128.3	2128.3
9°	2039.1	2034.5	2026.9	2042.2	2042.2
10°	1948.4	1945.3	1936.1	1950.4	1950.4
11°	1849.0	1847.4	1840.8	1852.5	1852.5
12°	1744.5	1748.0	1741.9	1752.1	1748.5
13°	1640.0	1638.4	1638.9	1646.6	1641.0
14°	1521.7	1530.9	1532.4	1537.0	1528.3
15°	1408.5	1420.2	1417.7	1424.3	1413.1
16°	1292.8	1306.1	1305.5	1307.1	1296.4
17°	1184.7	1192.4	1192.9	1191.4	1178.1
18°	1069.5	1080.2	1080.2	1077.7	1061.9
19°	956.9	965.0	970.6	965.0	946.7
20°	855.4	861.0	871.2	856.9	836.5
21°	758.0	763.1	771.8	755.0	732.6
22°	664.8	671.4	679.5	660.2	636.7
23°	577.6	592.9	595.9	569.4	549.5
24°	497.5	514.9	520.0	493.0	472.1
25°	426.2	445.5	457.3	425.7	404.8
26°	364.5	383.4	397.6	366.0	346.1
27°	310.5	330.3	345.1	315.6	296.7
28°	264.1	283.4	298.7	271.2	253.4
29°	229.4	240.6	255.9	233.0	216.7
30°	195.2	207.5	223.8	200.3	186.1
32.5°	134.1	140.7	153.4	139.2	128.0
35°	95.3	99.4	105.5	95.8	89.2
37.5°	67.8	69.8	73.4	67.8	64.2
40°	50.0	51.0	52.5	49.4	47.4
42.5°	37.2	37.7	37.7	36.7	35.7
45°	28.0	28.5	28.0	28.0	27.0
47.5°	20.4	21.9	21.4	21.4	19.9
50°	13.3	16.3	16.3	15.8	13.3
52.5°	8.2	11.2	12.7	11.2	8.7
55°	6.1	7.6	9.7	7.6	6.6
57.5°	6.1	6.1	7.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.1	5.6	5.6
72.5°	5.1	5.1	4.6	5.1	4.6
75°	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.5	2.5	2.5	2.5	2.5
82.5°	1.5	1.5	1.5	2.0	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	6.1	6.1	6.1	6.1	6.1
65°	5.6	6.1	5.6	6.1	5.6



(END OF REPORT)