

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: P283553

Luminaire Tested: **LDA2B108030D010 EU2B10FL408030 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283553
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: LDA2B108030D010 EU2B10FL408030 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: 898.6 lumens
Efficiency: N/A
Efficacy: 89.9 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

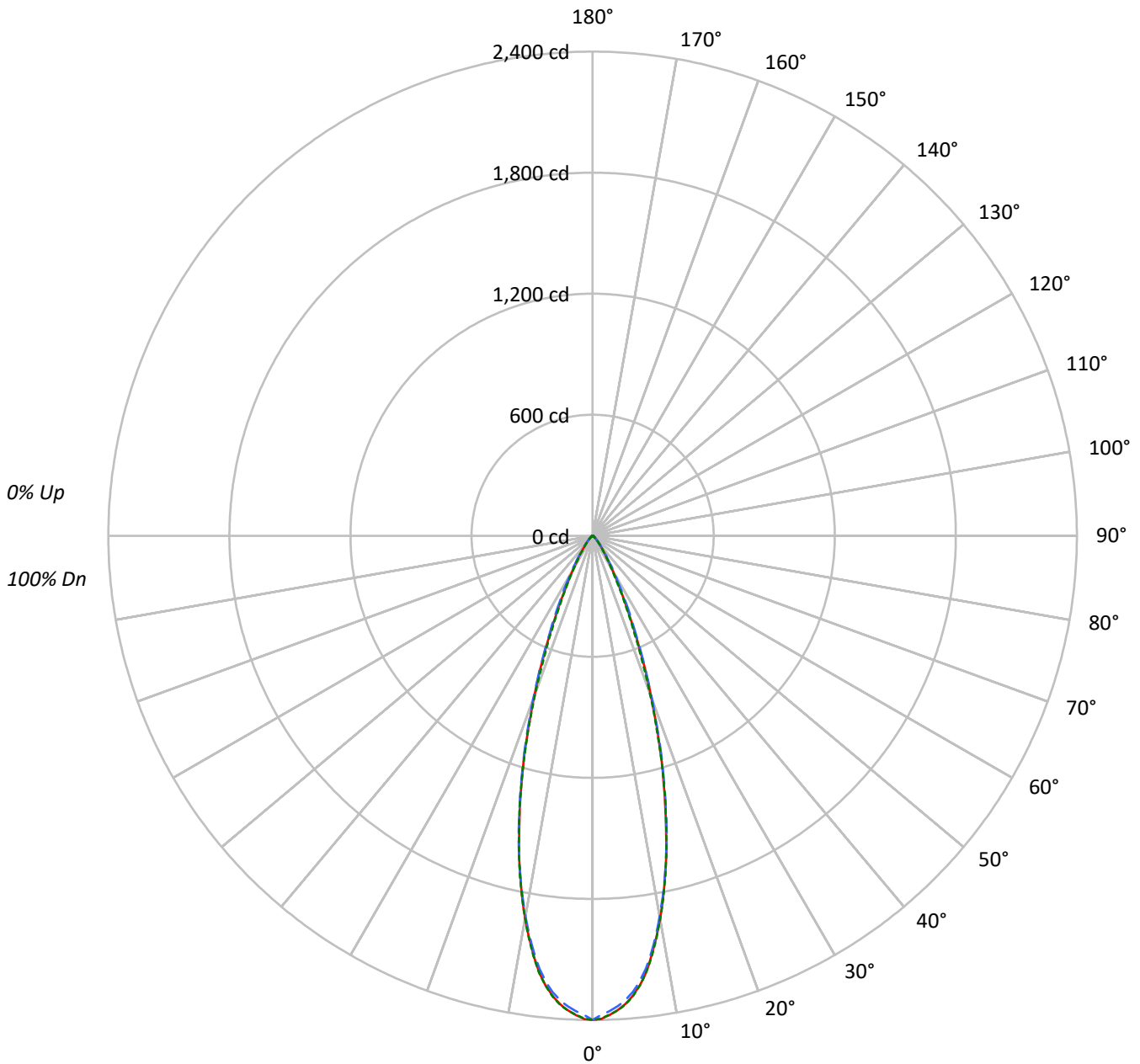
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0					
RW	70	50	30	10	70	50	30	10	50	30	10	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	74	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°	1184019	1184019	1184019
5°	1133124	1124605	1134857
10°	965374	959313	966376
15°	711548	716145	713846
20°	444171	452361	434405
25°	229450	246216	217909
30°	110006	126071	104822
35°	56795	62878	53121
40°	31815	33426	30205
45°	19327	19327	18629
50°	10055	12357	10055
55°	5247	8257	5677
60°	6019	6019	6019
65°	6421	6421	6421
70°	7934	7212	7934
75°	7625	7625	7625
80°	7103	7103	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	23.0
10°-20°	379.2	42.2
20°-30°	205.6	22.9
30°-40°	66.0	7.3
40°-50°	22.5	2.5
50°-60°	7.9	0.9
60°-70°	5.7	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°	791.2	88.0
0°-40°	857.2	95.4
0°-60°	887.6	98.8
0°-90°	898.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2288	2274	2271	2294	2292	207
15°	1393	1405	1402	1409	1398	378
25°	422	441	452	421	400	202
35°	94	98	104	95	88	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°	2399.9	2399.9	2399.9	2399.9	2399.9
1°	2395.9	2378.7	2376.2	2398.4	2393.4
2°	2376.7	2360.6	2358.1	2380.2	2375.7
3°	2355.5	2340.9	2335.9	2359.1	2356.0
4°	2327.3	2313.7	2309.2	2332.4	2329.8
5°	2288.0	2273.9	2270.8	2293.5	2291.5
6°	2239.6	2228.0	2222.4	2245.1	2241.1
7°	2179.1	2168.5	2162.4	2179.1	2181.1
8°	2100.4	2095.4	2088.3	2105.0	2105.0
9°	2016.7	2012.2	2004.6	2019.8	2019.8
10°	1927.0	1924.0	1914.9	1929.0	1929.0
11°	1828.7	1827.2	1820.6	1832.2	1832.2
12°	1725.3	1728.8	1722.8	1732.9	1729.3
13°	1622.0	1620.4	1620.9	1628.5	1623.0
14°	1505.0	1514.1	1515.6	1520.1	1511.5
15°	1393.1	1404.7	1402.1	1408.7	1397.6
16°	1278.6	1291.7	1291.2	1292.7	1282.1
17°	1171.7	1179.3	1179.8	1178.3	1165.2
18°	1057.8	1068.4	1068.4	1065.8	1050.2
19°	946.4	954.4	960.0	954.4	936.3
20°	846.0	851.6	861.6	847.5	827.4
21°	749.7	754.8	763.3	746.7	724.5
22°	657.5	664.0	672.1	652.9	629.7
23°	571.2	586.4	589.4	563.2	543.5
24°	492.1	509.2	514.3	487.5	466.9
25°	421.5	440.7	452.3	421.0	400.3
26°	360.5	379.1	393.3	362.0	342.3
27°	307.0	326.7	341.3	312.1	293.4
28°	261.2	280.3	295.5	268.2	250.6
29°	226.9	238.0	253.1	230.4	214.3
30°	193.1	205.2	221.3	198.1	184.0
32.5°	132.6	139.2	151.8	137.6	126.6
35°	94.3	98.3	104.4	94.8	88.2
37.5°	67.1	69.1	72.6	67.1	63.5
40°	49.4	50.4	51.9	48.9	46.9
42.5°	36.8	37.3	37.3	36.3	35.3
45°	27.7	28.2	27.7	27.7	26.7
47.5°	20.2	21.7	21.2	21.2	19.7
50°	13.1	16.1	16.1	15.6	13.1
52.5°	8.1	11.1	12.6	11.1	8.6
55°	6.1	7.6	9.6	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°	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.0	5.5	5.5
72.5°	5.0	5.0	4.5	5.0	4.5
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
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°	5.5	6.1	5.5	6.1	5.5



(END OF REPORT)