

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: P283566

Luminaire Tested: **LDA2B108040D010 EU2B10FL408040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283566
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: LDA2B108040D010 EU2B10FL408040 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 910.9 lumens
Efficiency: N/A
Efficacy: 91.1 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

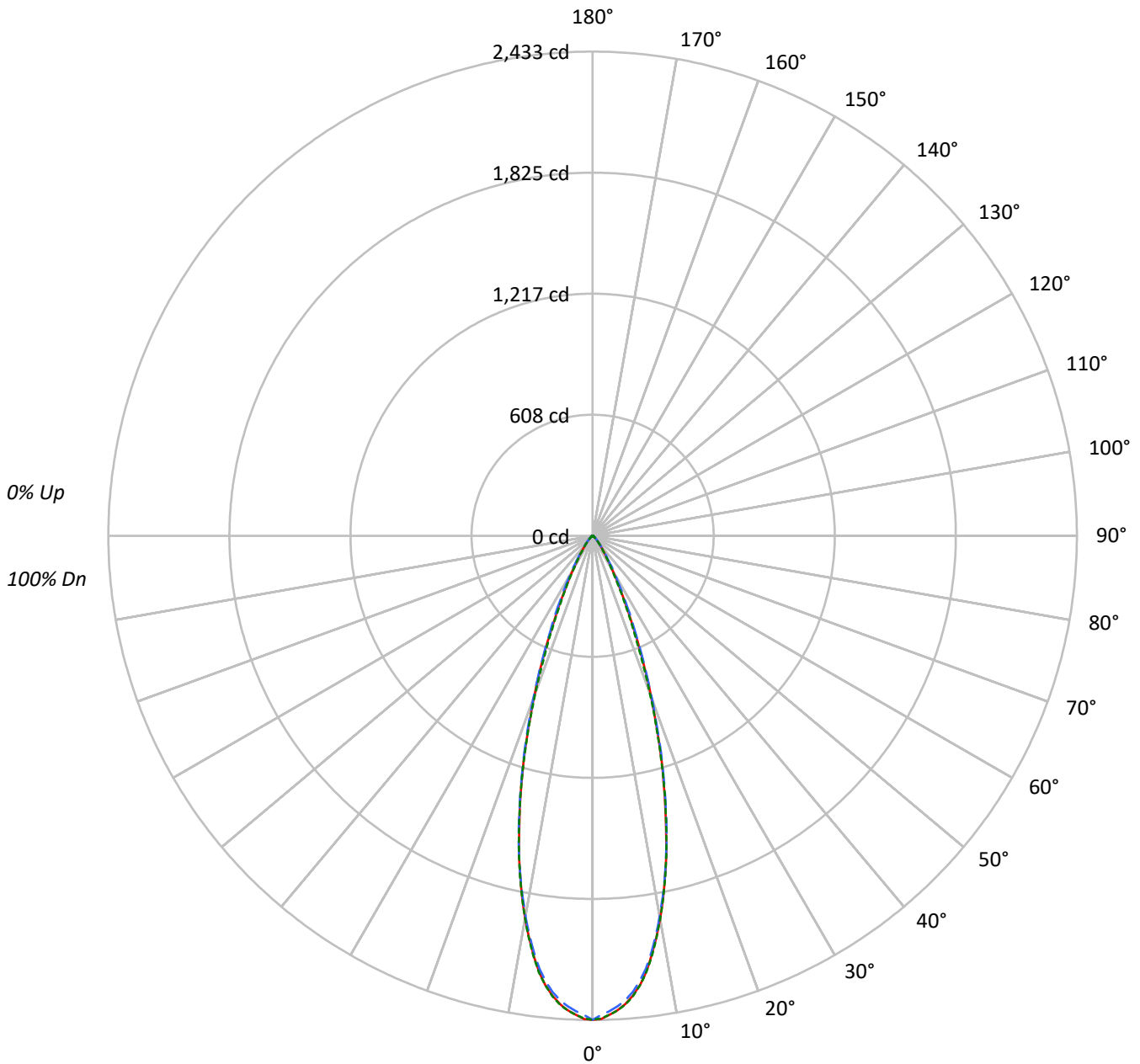
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	1200201	1200201	1200201
5°	1148575	1140008	1150358
10°	978550	972388	979552
15°	721252	725951	723602
20°	450261	458557	440338
25°	232607	249537	220903
30°	111487	127837	106246
35°	57578	63722	53844
40°	32266	33876	30592
45°	19606	19606	18908
50°	10208	12588	10208
55°	5247	8343	5677
60°	6019	6019	6019
65°	6537	6537	6537
70°	8078	7357	8078
75°	7815	7815	7815
80°	7387	7387	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	23.0
10°-20°	384.4	42.2
20°-30°	208.4	22.9
30°-40°	66.9	7.3
40°-50°	22.8	2.5
50°-60°	8.0	0.9
60°-70°	5.8	0.6
70°-80°	4.3	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°	802.0	88.0
0°-40°	868.9	95.4
0°-60°	899.7	98.8
0°-90°	910.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2319	2305	2302	2325	2323	210
15°	1412	1424	1421	1428	1417	383
25°	427	447	458	427	406	205
35°	96	100	106	96	89	64
45°	28	29	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°	2432.7	2432.7	2432.7	2432.7	2432.7
1°	2428.6	2411.2	2408.7	2431.2	2426.0
2°	2409.2	2392.8	2390.3	2412.8	2408.2
3°	2387.7	2372.9	2367.8	2391.3	2388.2
4°	2359.1	2345.3	2340.7	2364.2	2361.6
5°	2319.2	2304.9	2301.9	2324.9	2322.8
6°	2270.2	2258.4	2252.8	2275.8	2271.7
7°	2208.8	2198.1	2192.0	2208.8	2210.9
8°	2129.1	2124.0	2116.8	2133.7	2133.7
9°	2044.3	2039.7	2032.0	2047.3	2047.3
10°	1953.3	1950.2	1941.0	1955.3	1955.3
11°	1853.6	1852.1	1845.5	1857.2	1857.2
12°	1748.9	1752.5	1746.3	1756.5	1753.0
13°	1644.1	1642.6	1643.1	1650.8	1645.1
14°	1525.5	1534.7	1536.3	1540.9	1532.2
15°	1412.1	1423.8	1421.3	1427.9	1416.7
16°	1296.1	1309.4	1308.8	1310.4	1299.6
17°	1187.7	1195.4	1195.9	1194.4	1181.1
18°	1072.2	1083.0	1083.0	1080.4	1064.6
19°	959.3	967.5	973.1	967.5	949.1
20°	857.6	863.2	873.4	859.1	838.7
21°	760.0	765.1	773.8	756.9	734.4
22°	666.4	673.1	681.3	661.8	638.3
23°	579.0	594.4	597.4	570.9	550.9
24°	498.8	516.2	521.3	494.2	473.2
25°	427.3	446.7	458.4	426.7	405.8
26°	365.4	384.3	398.6	366.9	347.0
27°	311.2	331.2	346.0	316.4	297.4
28°	264.7	284.2	299.5	271.9	254.0
29°	230.0	241.2	256.6	233.6	217.2
30°	195.7	208.0	224.4	200.9	186.5
32.5°	134.4	141.1	153.8	139.5	128.3
35°	95.6	99.7	105.8	96.1	89.4
37.5°	68.0	70.0	73.6	68.0	64.4
40°	50.1	51.1	52.6	49.6	47.5
42.5°	37.3	37.8	37.8	36.8	35.8
45°	28.1	28.6	28.1	28.1	27.1
47.5°	20.4	22.0	21.5	21.5	19.9
50°	13.3	16.4	16.4	15.8	13.3
52.5°	8.2	11.2	12.8	11.2	8.7
55°	6.1	7.7	9.7	7.7	6.6
57.5°	6.1	6.1	7.2	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°	2.6	2.6	2.6	2.6	2.6
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)