

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: P283524

Luminaire Tested: **LDA2B059050D010 EU2B05FL409050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283524
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: LDA2B059050D010 EU2B05FL409050 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 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: 559.8 lumens
Efficiency: N/A
Efficacy: 80.0 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

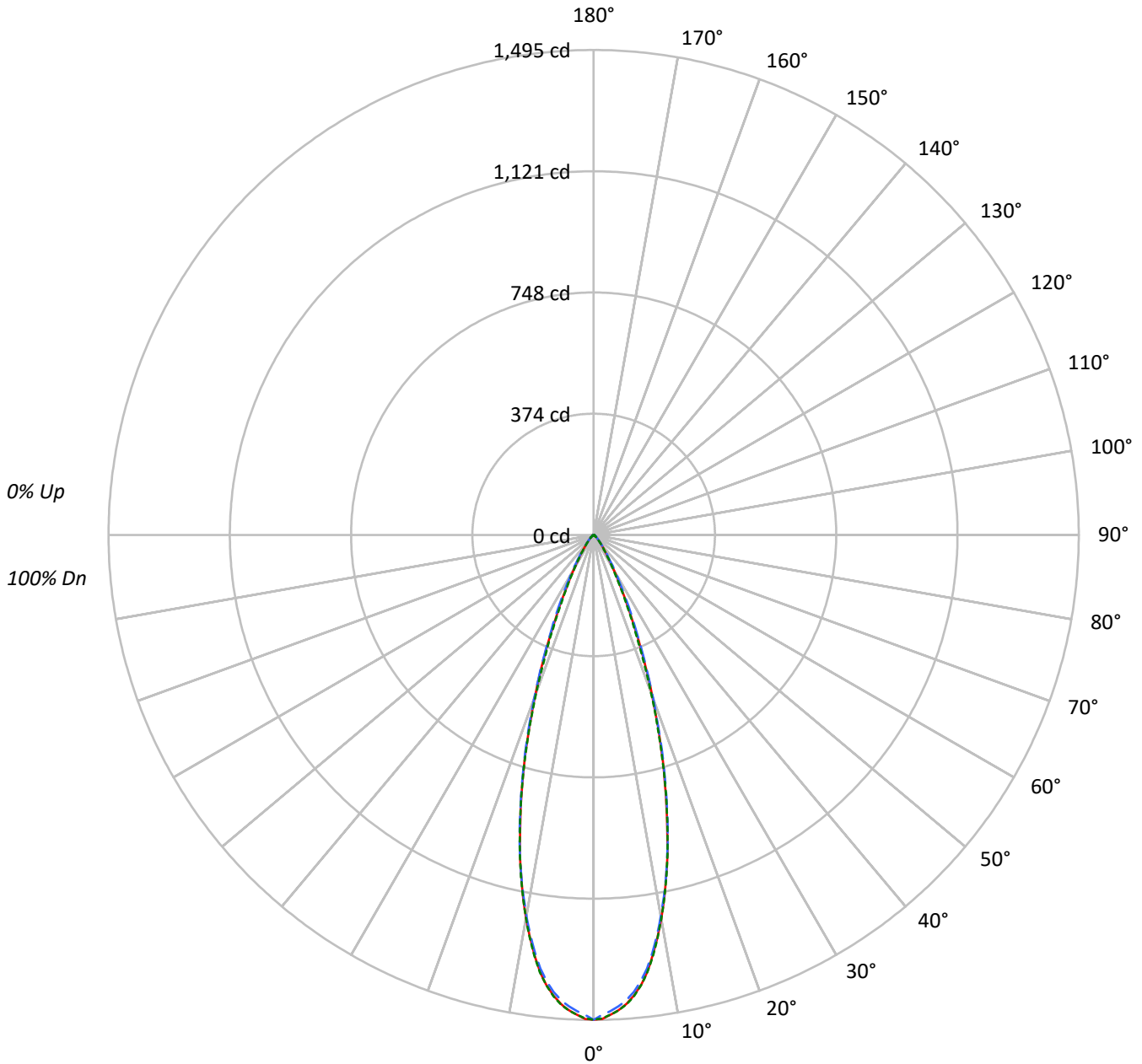
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	737477	737477	737477
5°	705776	700476	706865
10°	601318	597510	601919
15°	443191	446052	444622
20°	276688	281781	270545
25°	142896	153347	135710
30°	68533	78560	65286
35°	35354	39148	33126
40°	19836	20802	18806
45°	12071	12071	11582
50°	6294	7675	6294
55°	3269	5161	3527
60°	3750	3750	3750
65°	4086	4086	4086
70°	5049	4472	5049
75°	4766	4766	4766
80°	4546	4546	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	23.0
10°-20°	236.2	42.2
20°-30°	128.0	22.9
30°-40°	41.1	7.3
40°-50°	14.0	2.5
50°-60°	4.9	0.9
60°-70°	3.6	0.6
70°-80°	2.6	0.5
80°-90°	0.7	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°	492.8	88.0
0°-40°	533.9	95.4
0°-60°	552.8	98.8
0°-90°	559.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	559.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1425	1416	1414	1429	1427	129
15°	868	875	873	877	870	235
25°	262	274	282	262	249	126
35°	59	61	65	59	55	40
45°	17	18	17	17	17	14
55°	4	5	6	5	4	4
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
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°	1494.8	1494.8	1494.8	1494.8	1494.8
1°	1492.3	1481.6	1480.1	1493.9	1490.8
2°	1480.4	1470.3	1468.8	1482.6	1479.8
3°	1467.2	1458.1	1455.0	1469.4	1467.5
4°	1449.6	1441.1	1438.3	1452.8	1451.2
5°	1425.1	1416.3	1414.4	1428.6	1427.3
6°	1395.0	1387.7	1384.3	1398.4	1395.9
7°	1357.3	1350.7	1346.9	1357.3	1358.5
8°	1308.3	1305.2	1300.8	1311.1	1311.1
9°	1256.2	1253.3	1248.6	1258.0	1258.0
10°	1200.3	1198.4	1192.7	1201.5	1201.5
11°	1139.0	1138.1	1134.0	1141.2	1141.2
12°	1074.6	1076.8	1073.1	1079.4	1077.2
13°	1010.3	1009.3	1009.6	1014.4	1010.9
14°	937.4	943.1	944.0	946.8	941.5
15°	867.7	874.9	873.3	877.4	870.5
16°	796.4	804.6	804.3	805.2	798.6
17°	729.8	734.5	734.9	733.9	725.7
18°	658.9	665.5	665.5	663.9	654.1
19°	589.5	594.5	597.9	594.5	583.2
20°	527.0	530.4	536.7	527.9	515.3
21°	467.0	470.1	475.5	465.1	451.3
22°	409.5	413.6	418.6	406.7	392.2
23°	355.8	365.2	367.1	350.8	338.5
24°	306.5	317.2	320.3	303.7	290.8
25°	262.5	274.5	281.7	262.2	249.3
26°	224.5	236.2	245.0	225.5	213.2
27°	191.3	203.5	212.6	194.4	182.8
28°	162.7	174.6	184.0	167.1	156.1
29°	141.3	148.2	157.6	143.5	133.5
30°	120.3	127.8	137.9	123.4	114.6
32.5°	82.6	86.7	94.5	85.7	78.8
35°	58.7	61.2	65.0	59.0	55.0
37.5°	41.8	43.0	45.2	41.8	39.6
40°	30.8	31.4	32.3	30.5	29.2
42.5°	22.9	23.2	23.2	22.6	22.0
45°	17.3	17.6	17.3	17.3	16.6
47.5°	12.6	13.5	13.2	13.2	12.2
50°	8.2	10.0	10.0	9.7	8.2
52.5°	5.0	6.9	7.9	6.9	5.3
55°	3.8	4.7	6.0	4.7	4.1
57.5°	3.8	3.8	4.4	3.8	3.8
60°	3.8	3.8	3.8	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.1	3.5	3.5
72.5°	3.1	3.1	2.8	3.1	2.8
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.9	0.9	0.9	1.3	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	3.8	3.8	3.8	3.8	3.8
65°	3.5	3.8	3.5	3.8	3.5



(END OF REPORT)