

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: P283504

Luminaire Tested: **LDA2B059030D010 EU2B05FL409030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283504
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: LDA2B059030D010 EU2B05FL409030 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 558.9 lumens
Efficiency: N/A
Efficacy: 79.8 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

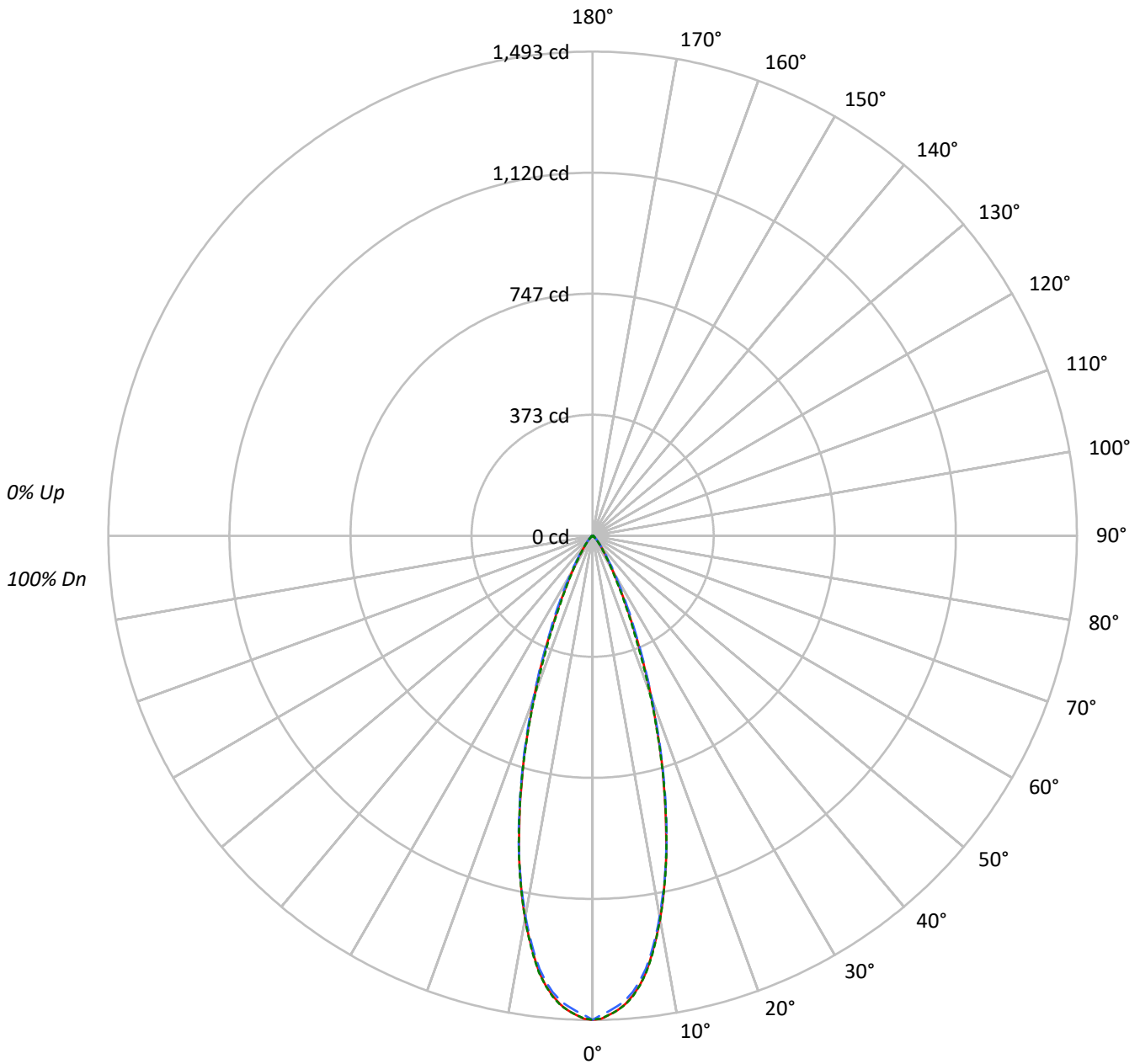
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	736441	736441	736441
5°	704736	699486	705825
10°	600416	596658	601067
15°	442527	445439	444009
20°	276268	281361	270178
25°	142732	153130	135547
30°	68419	78446	65229
35°	35294	39088	33065
40°	19772	20802	18806
45°	12001	12001	11582
50°	6294	7675	6294
55°	3269	5161	3527
60°	3750	3750	3750
65°	3969	3969	3969
70°	4904	4472	4904
75°	4766	4766	4766
80°	4546	4546	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	23.0
10°-20°	235.8	42.2
20°-30°	127.9	22.9
30°-40°	41.0	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°	492.1	88.0
0°-40°	533.1	95.4
0°-60°	552.0	98.8
0°-90°	558.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1423	1414	1412	1426	1425	129
15°	866	874	872	876	869	235
25°	262	274	281	262	249	126
35°	59	61	65	59	55	39
45°	17	18	17	17	17	14
55°	4	5	6	5	4	4
65°	3	4	3	4	3	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°	1492.7	1492.7	1492.7	1492.7	1492.7
1°	1490.1	1479.5	1477.9	1491.7	1488.6
2°	1478.2	1468.2	1466.6	1480.4	1477.6
3°	1465.1	1456.0	1452.8	1467.3	1465.4
4°	1447.5	1439.0	1436.2	1450.6	1449.1
5°	1423.0	1414.3	1412.4	1426.5	1425.2
6°	1392.9	1385.7	1382.3	1396.4	1393.9
7°	1355.3	1348.7	1345.0	1355.3	1356.6
8°	1306.4	1303.2	1298.9	1309.2	1309.2
9°	1254.3	1251.5	1246.8	1256.2	1256.2
10°	1198.5	1196.6	1191.0	1199.8	1199.8
11°	1137.4	1136.4	1132.3	1139.6	1139.6
12°	1073.1	1075.3	1071.5	1077.8	1075.6
13°	1008.8	1007.9	1008.2	1012.9	1009.4
14°	936.0	941.7	942.6	945.5	940.1
15°	866.4	873.6	872.1	876.1	869.3
16°	795.2	803.4	803.1	804.0	797.4
17°	728.8	733.5	733.8	732.8	724.7
18°	657.9	664.5	664.5	662.9	653.2
19°	588.6	593.6	597.1	593.6	582.3
20°	526.2	529.6	535.9	527.1	514.6
21°	466.3	469.4	474.8	464.4	450.6
22°	408.9	413.0	418.0	406.1	391.7
23°	355.3	364.7	366.6	350.3	338.0
24°	306.1	316.7	319.9	303.2	290.4
25°	262.2	274.1	281.3	261.8	249.0
26°	224.2	235.8	244.6	225.2	212.9
27°	191.0	203.2	212.3	194.1	182.5
28°	162.4	174.4	183.8	166.8	155.9
29°	141.1	148.0	157.4	143.3	133.3
30°	120.1	127.6	137.7	123.2	114.5
32.5°	82.5	86.5	94.4	85.6	78.7
35°	58.6	61.1	64.9	59.0	54.9
37.5°	41.7	43.0	45.2	41.7	39.5
40°	30.7	31.4	32.3	30.4	29.2
42.5°	22.9	23.2	23.2	22.6	22.0
45°	17.2	17.6	17.2	17.2	16.6
47.5°	12.5	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	7.8	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°	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.1	3.4	3.4
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°	3.4	3.8	3.4	3.8	3.4



(END OF REPORT)