

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: P283899

Luminaire Tested: **LDA2B108040D010 EU2B10WFL558040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B108040D010 EU2B10WFL558040 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1018.9 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

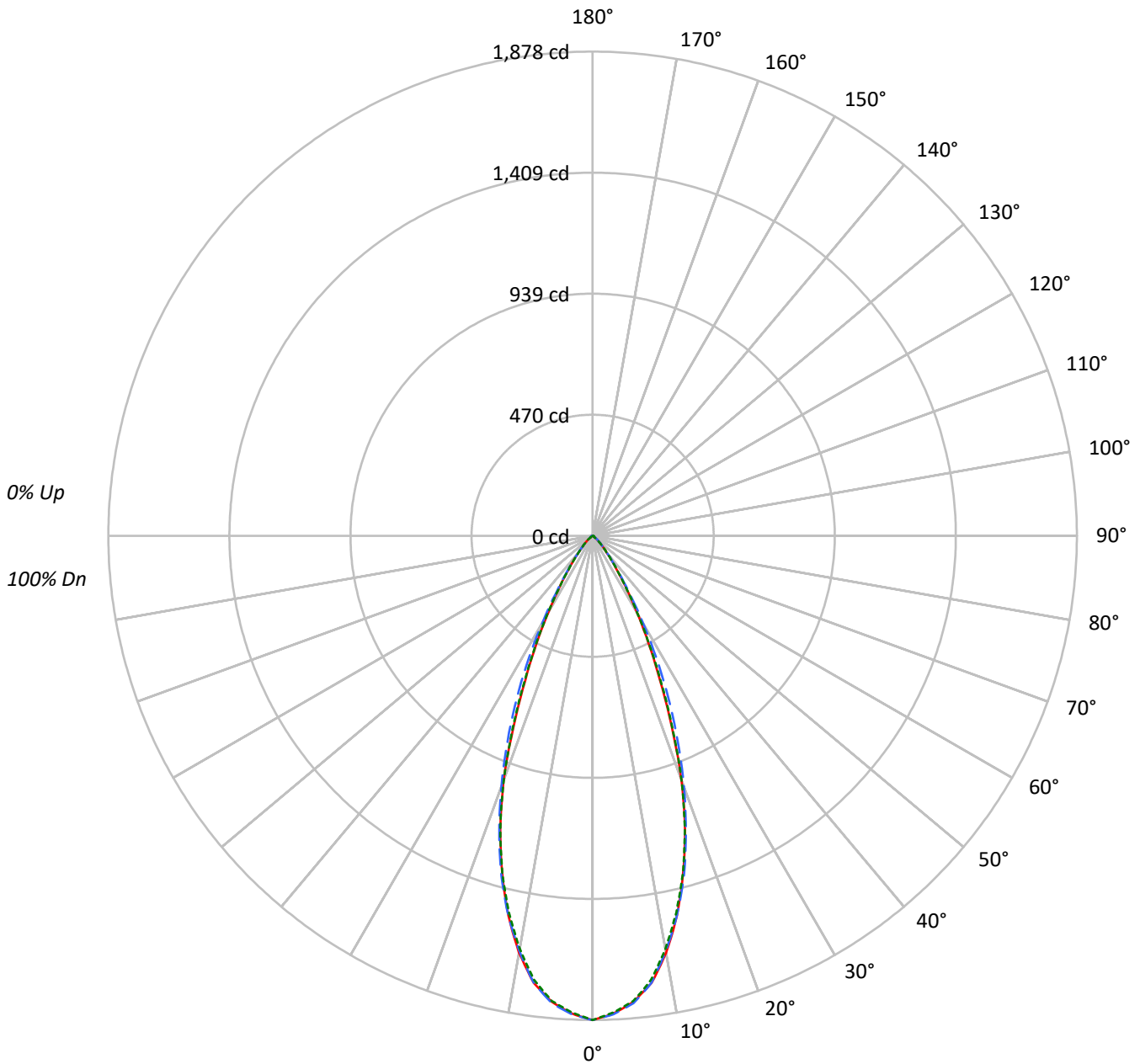
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	926780	926780	926780
5°	898922	901101	897040
10°	822848	819541	814632
15°	692139	698523	691015
20°	529277	543348	528437
25°	336091	378932	342623
30°	195459	220696	198877
35°	103352	109917	103653
40°	54550	56997	54550
45°	30490	31676	30909
50°	14276	18037	14276
55°	5161	9892	5677
60°	5920	5920	5920
65°	6421	7004	6421
70°	7934	7068	7934
75°	7244	7244	7244
80°	7671	6251	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	16.5
10°-20°	373.4	36.6
20°-30°	301.5	29.6
30°-40°	119.2	11.7
40°-50°	36.6	3.6
50°-60°	9.4	0.9
60°-70°	5.7	0.6
70°-80°	4.2	0.4
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°	842.6	82.7
0°-40°	961.7	94.4
0°-60°	1007.8	98.9
0°-90°	1018.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1018.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1815	1818	1820	1816	1811	168
15°	1355	1359	1368	1362	1353	372
25°	617	647	696	659	629	287
35°	172	176	182	177	172	115
45°	44	44	45	45	44	36
55°	6	8	12	8	7	8
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°	1878.5	1878.5	1878.5	1878.5	1878.5
2.5°	1855.0	1856.1	1857.8	1855.6	1850.1
5°	1815.1	1818.4	1819.5	1815.7	1811.3
7.5°	1749.6	1745.7	1749.0	1742.5	1737.0
10°	1642.5	1637.6	1635.9	1626.1	1626.1
12.5°	1510.2	1508.6	1509.7	1504.8	1497.1
15°	1355.1	1358.9	1367.6	1362.2	1352.9
17.5°	1190.6	1196.1	1203.7	1202.1	1189.5
20°	1008.1	1023.9	1034.9	1024.5	1006.5
22.5°	800.5	834.3	862.2	840.4	810.9
25°	617.4	646.9	696.1	659.0	629.4
27.5°	468.3	489.6	534.4	497.8	477.6
30°	343.1	356.3	387.4	363.4	349.1
32.5°	245.3	254.6	267.7	253.5	246.4
35°	171.6	176.5	182.5	177.0	172.1
37.5°	120.8	122.4	126.8	122.4	120.2
40°	84.7	85.2	88.5	85.8	84.7
42.5°	61.2	61.2	62.8	61.7	61.2
45°	43.7	44.3	45.4	44.8	44.3
47.5°	31.1	32.2	32.2	32.8	30.6
50°	18.6	22.9	23.5	22.9	18.6
52.5°	9.8	13.7	16.9	13.7	9.8
55°	6.0	8.2	11.5	8.2	6.6
57.5°	6.0	6.0	7.6	6.6	6.0
60°	6.0	6.0	6.0	6.0	6.0
62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.5	6.0	6.0	6.0	5.5
67.5°	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	4.9	5.5	5.5
72.5°	4.9	4.9	4.4	4.9	4.9
75°	3.8	3.8	3.8	3.8	3.8
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.7	2.7	2.2	2.7	2.7
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.1	1.1	1.1	1.1	1.1
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°







(END OF REPORT)