

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: P283858

Luminaire Tested: **LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283858  
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: LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 638.2 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

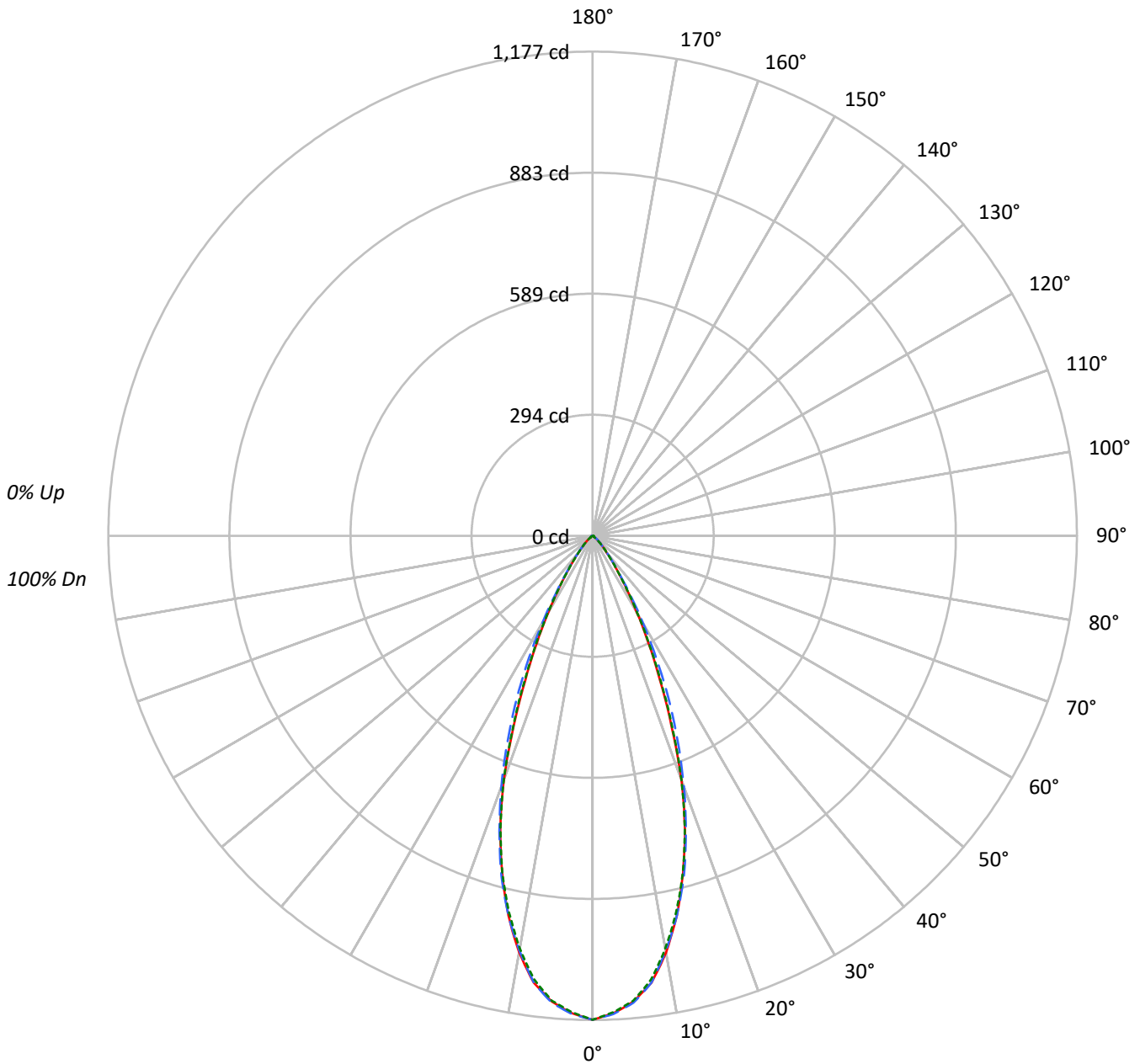
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	580489	580489	580489
5°	563046	564383	561857
10°	515401	513347	510241
15°	433487	437522	432823
20°	331501	340321	330976
25°	210506	237343	214643
30°	122425	138206	124590
35°	64745	68841	64926
40°	34134	35680	34134
45°	19117	19815	19327
50°	8903	11283	8903
55°	3269	6193	3527
60°	3750	3750	3750
65°	3969	4436	3969
70°	4904	4472	4904
75°	4575	4575	4575
80°	4830	3978	4830
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.0	16.5
10°-20°	233.9	36.6
20°-30°	188.9	29.6
30°-40°	74.6	11.7
40°-50°	22.9	3.6
50°-60°	5.9	0.9
60°-70°	3.6	0.6
70°-80°	2.6	0.4
80°-90°	0.8	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°	527.7	82.7
0°-40°	602.4	94.4
0°-60°	631.2	98.9
0°-90°	638.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	638.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1137	1139	1140	1137	1134	105
15°	849	851	857	853	847	233
25°	387	405	436	413	394	180
35°	108	110	114	111	108	72
45°	27	28	28	28	28	22
55°	4	5	7	5	4	5
65°	3	4	4	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°	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1161.9	1162.6	1163.6	1162.2	1158.8
5°	1136.9	1139.0	1139.6	1137.2	1134.5
7.5°	1095.8	1093.4	1095.5	1091.4	1088.0
10°	1028.8	1025.7	1024.7	1018.5	1018.5
12.5°	945.9	944.9	945.6	942.5	937.7
15°	848.7	851.1	856.6	853.2	847.4
17.5°	745.7	749.2	753.9	752.9	745.0
20°	631.4	641.3	648.2	641.7	630.4
22.5°	501.4	522.6	540.0	526.4	507.9
25°	386.7	405.2	436.0	412.7	394.3
27.5°	293.3	306.6	334.7	311.8	299.1
30°	214.9	223.1	242.6	227.6	218.7
32.5°	153.7	159.5	167.7	158.8	154.3
35°	107.5	110.5	114.3	110.9	107.8
37.5°	75.6	76.7	79.4	76.7	75.3
40°	53.0	53.4	55.4	53.7	53.0
42.5°	38.3	38.3	39.4	38.7	38.3
45°	27.4	27.7	28.4	28.1	27.7
47.5°	19.5	20.2	20.2	20.5	19.2
50°	11.6	14.4	14.7	14.4	11.6
52.5°	6.2	8.6	10.6	8.6	6.2
55°	3.8	5.1	7.2	5.1	4.1
57.5°	3.8	3.8	4.8	4.1	3.8
60°	3.8	3.8	3.8	3.8	3.8
62.5°	3.8	3.8	3.8	3.8	3.8
65°	3.4	3.8	3.8	3.8	3.4
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	2.7	3.1	3.1
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.7	1.7	1.4	1.7	1.7
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	0.7	0.7
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°







(END OF REPORT)