

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: P283860

Luminaire Tested: **LDA2B059050D010 EU2B05WFL559050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283860  
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 2LBALPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ Pinhole w-lens, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 581.1 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

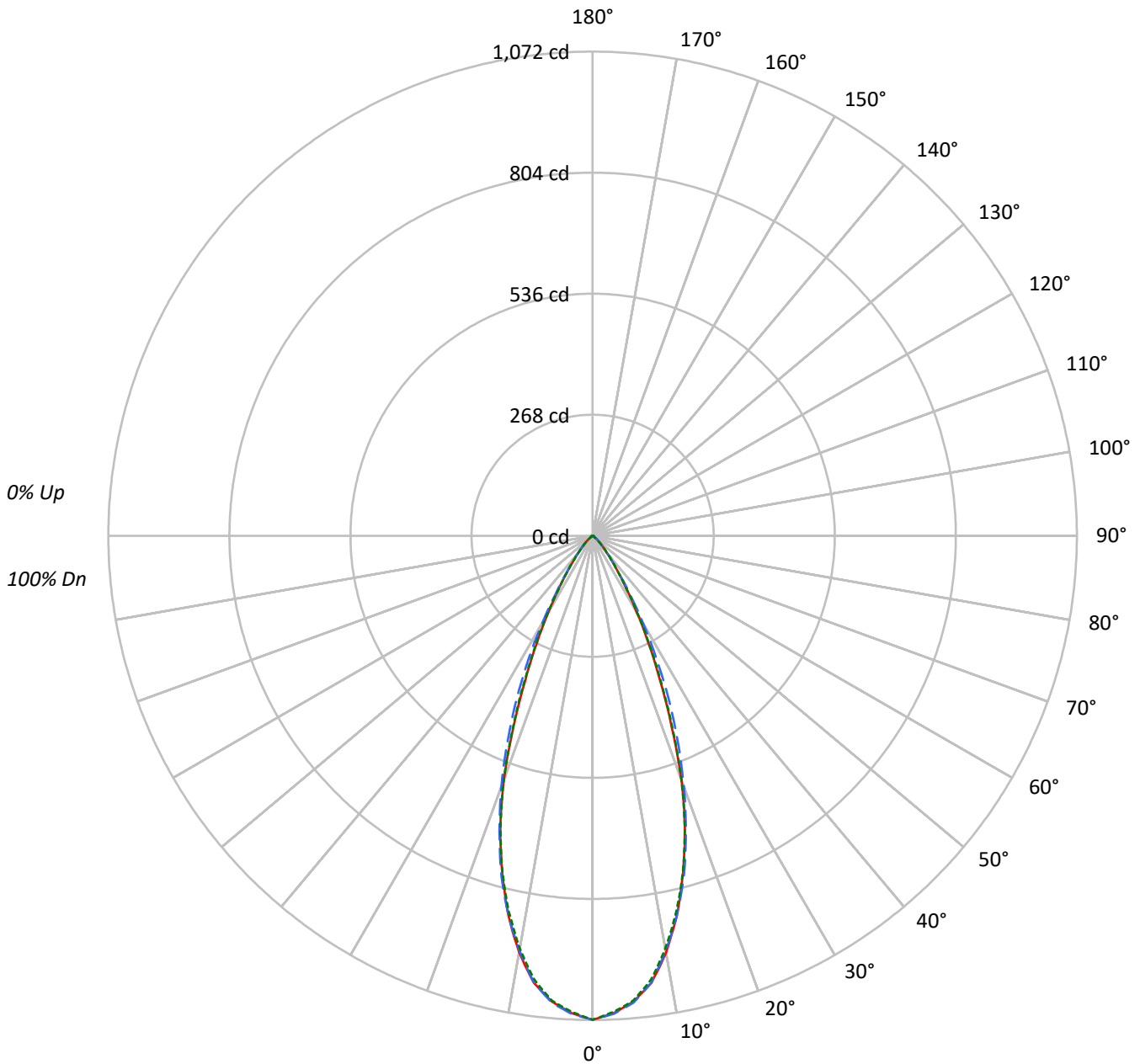
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	528637	528637	528637
5°	512729	513967	511689
10°	469361	467458	464652
15°	394771	398448	394158
20°	301889	309922	301417
25°	191725	216167	195427
30°	111487	125900	113481
35°	58964	62698	59144
40°	31107	32524	31107
45°	17373	18071	17583
50°	8136	10285	8136
55°	2925	5591	3183
60°	3355	3355	3355
65°	3619	3969	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	4546	3409	4546
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	16.5
10°-20°	213.0	36.6
20°-30°	172.0	29.6
30°-40°	68.0	11.7
40°-50°	20.9	3.6
50°-60°	5.4	0.9
60°-70°	3.2	0.6
70°-80°	2.4	0.4
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°	480.6	82.7
0°-40°	548.6	94.4
0°-60°	574.8	98.9
0°-90°	581.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1035	1037	1038	1036	1033	96
15°	773	775	780	777	772	212
25°	352	369	397	376	359	164
35°	98	101	104	101	98	66
45°	25	25	26	26	25	20
55°	3	5	6	5	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1071.5	1071.5	1071.5	1071.5	1071.5
2.5°	1058.1	1058.7	1059.6	1058.4	1055.3
5°	1035.3	1037.2	1037.8	1035.7	1033.2
7.5°	997.9	995.8	997.6	993.9	990.8
10°	936.9	934.0	933.1	927.5	927.5
12.5°	861.4	860.5	861.1	858.3	854.0
15°	772.9	775.1	780.1	777.0	771.7
17.5°	679.1	682.2	686.6	685.7	678.5
20°	575.0	584.1	590.3	584.4	574.1
22.5°	456.6	475.9	491.8	479.3	462.5
25°	352.2	369.0	397.1	375.9	359.0
27.5°	267.1	279.2	304.8	283.9	272.4
30°	195.7	203.2	221.0	207.3	199.2
32.5°	139.9	145.2	152.7	144.6	140.6
35°	97.9	100.7	104.1	101.0	98.2
37.5°	68.9	69.8	72.3	69.8	68.6
40°	48.3	48.6	50.5	48.9	48.3
42.5°	34.9	34.9	35.8	35.2	34.9
45°	24.9	25.2	25.9	25.6	25.2
47.5°	17.8	18.4	18.4	18.7	17.5
50°	10.6	13.1	13.4	13.1	10.6
52.5°	5.6	7.8	9.7	7.8	5.6
55°	3.4	4.7	6.5	4.7	3.7
57.5°	3.4	3.4	4.4	3.7	3.4
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.1	3.4	3.4	3.4	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.5	2.8	2.8
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.2	1.6	1.6
82.5°	0.9	0.9	0.9	0.9	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°







(END OF REPORT)