

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: P283832

Luminaire Tested: **LDA2B059027D010 EU2B05WFL559027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283832  
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: LDA2B059027D010 EU2B05WFL559027 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 566.9 lumens  
Efficiency: N/A  
Efficacy: 81.0 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

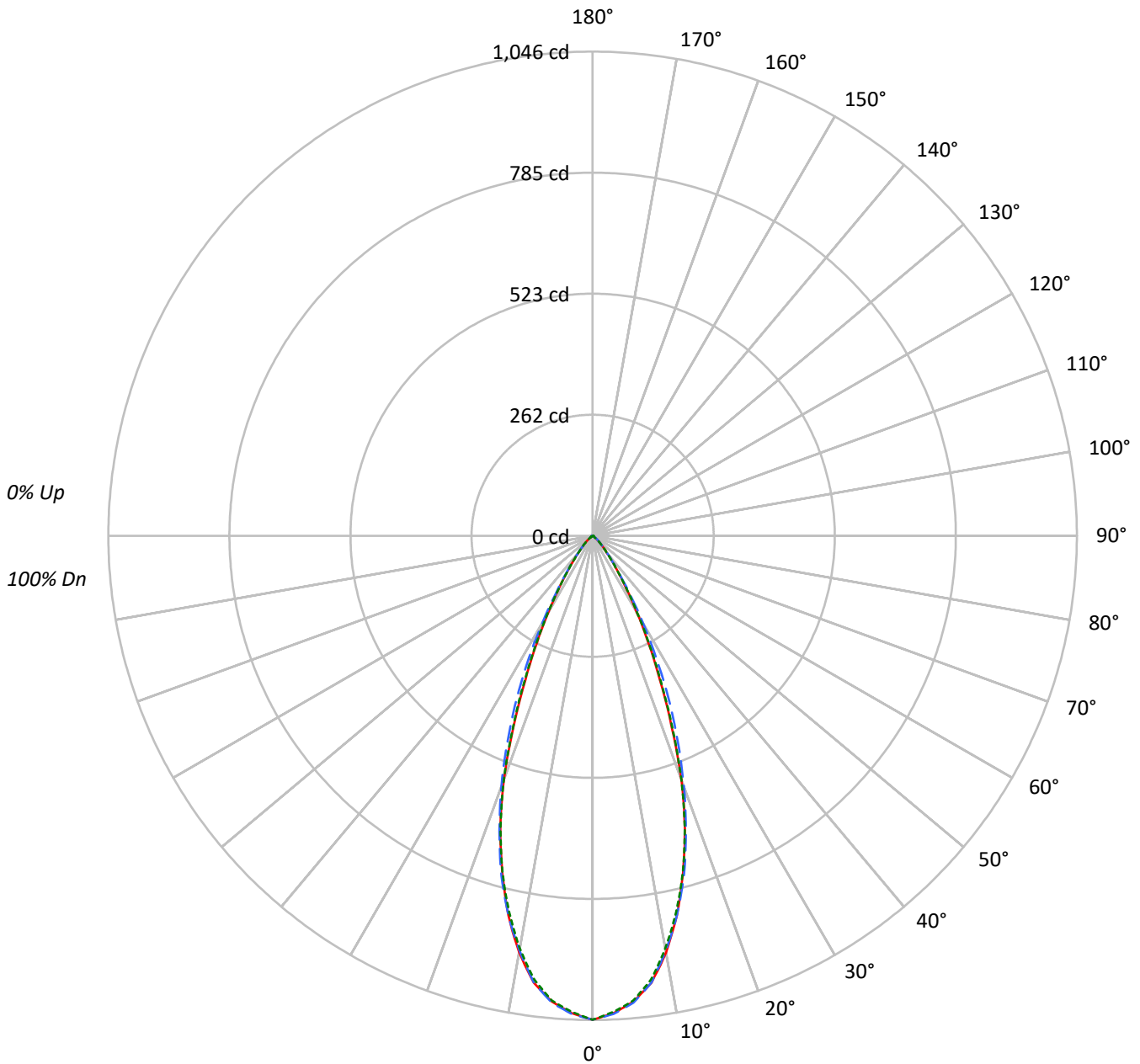
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	104	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	83	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°	515810	515810	515810
5°	500298	501486	499258
10°	457939	456086	453380
15°	385168	388744	384556
20°	294539	302362	294066
25°	187044	210887	190691
30°	108810	122824	110690
35°	57518	61192	57699
40°	30334	31751	30334
45°	16955	17583	17164
50°	7906	10055	7906
55°	2838	5505	3097
60°	3256	3256	3256
65°	3502	3852	3502
70°	4327	3895	4327
75°	4003	4003	4003
80°	4262	3409	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	16.5
10°-20°	207.8	36.7
20°-30°	167.8	29.6
30°-40°	66.3	11.7
40°-50°	20.4	3.6
50°-60°	5.2	0.9
60°-70°	3.1	0.6
70°-80°	2.3	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°	468.9	82.7
0°-40°	535.2	94.4
0°-60°	560.8	98.9
0°-90°	566.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	566.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1010	1012	1013	1010	1008	93
15°	754	756	761	758	753	207
25°	344	360	387	367	350	160
35°	96	98	102	98	96	64
45°	24	25	25	25	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°	1045.5	1045.5	1045.5	1045.5	1045.5
2.5°	1032.4	1033.0	1033.9	1032.7	1029.7
5°	1010.2	1012.0	1012.6	1010.5	1008.1
7.5°	973.7	971.6	973.4	969.7	966.7
10°	914.1	911.4	910.4	905.0	905.0
12.5°	840.5	839.6	840.2	837.5	833.2
15°	754.1	756.3	761.1	758.1	752.9
17.5°	662.6	665.7	669.9	669.0	662.0
20°	561.0	569.9	575.9	570.2	560.1
22.5°	445.5	464.3	479.9	467.7	451.3
25°	343.6	360.0	387.4	366.7	350.3
27.5°	260.6	272.5	297.4	277.0	265.8
30°	191.0	198.3	215.6	202.2	194.3
32.5°	136.5	141.7	149.0	141.1	137.1
35°	95.5	98.2	101.6	98.5	95.8
37.5°	67.2	68.1	70.5	68.1	66.9
40°	47.1	47.4	49.3	47.7	47.1
42.5°	34.1	34.1	35.0	34.4	34.1
45°	24.3	24.6	25.2	24.9	24.6
47.5°	17.3	17.9	17.9	18.2	17.0
50°	10.3	12.8	13.1	12.8	10.3
52.5°	5.5	7.6	9.4	7.6	5.5
55°	3.3	4.6	6.4	4.6	3.6
57.5°	3.3	3.3	4.3	3.6	3.3
60°	3.3	3.3	3.3	3.3	3.3
62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.3	3.3	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.4	2.7	2.7
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.2	1.5	1.5
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)