

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: P283844

Luminaire Tested: **LDA2B059035D010 EU2B05WFL559035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283844  
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: LDA2B059035D010 EU2B05WFL559035 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: 614.2 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

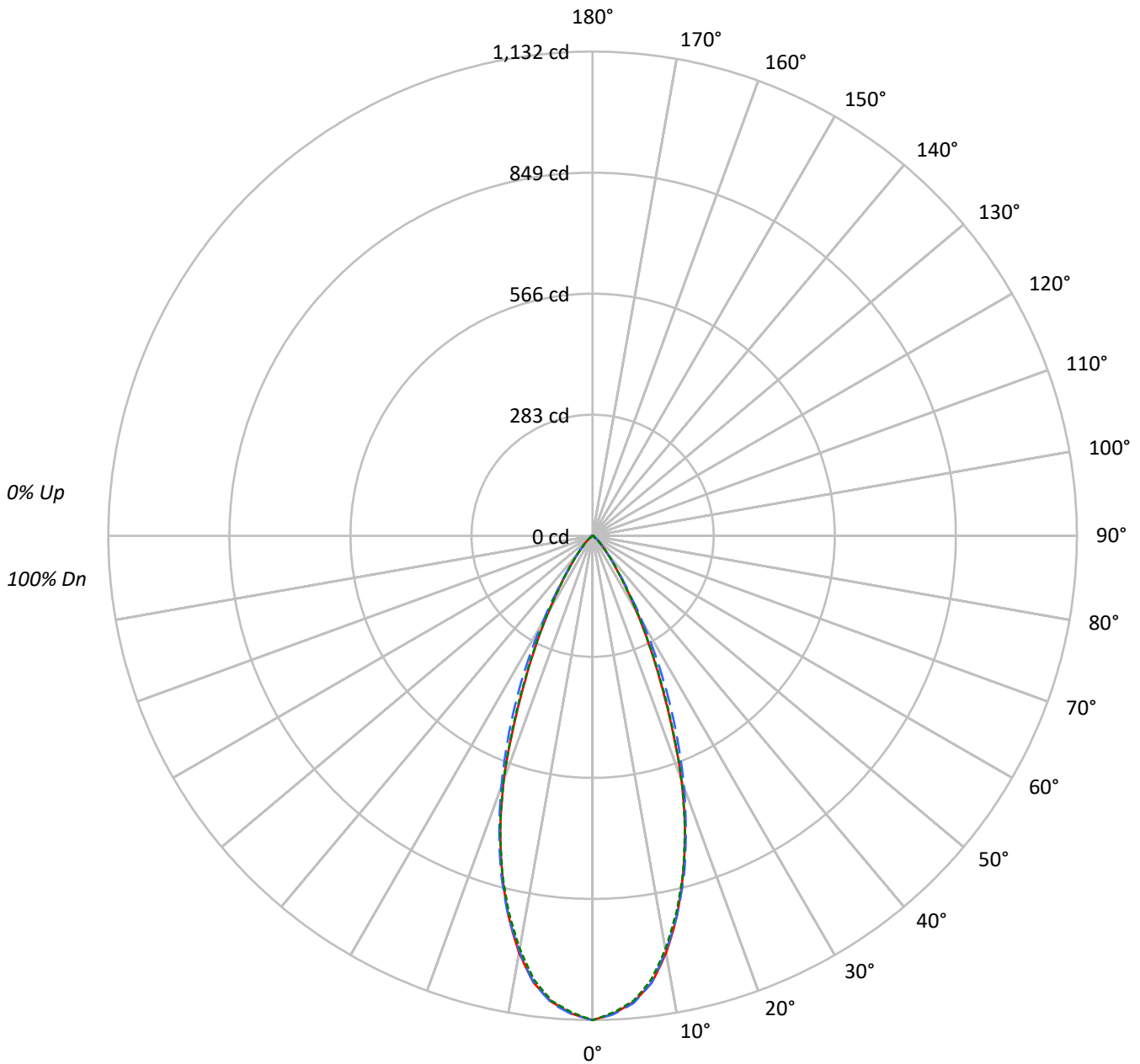
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	558683	558683	558683
5°	541899	543186	540710
10°	496013	494009	491053
15°	417193	421075	416529
20°	319057	327510	318532
25°	202612	228415	206532
30°	117811	133021	119919
35°	62276	66251	62457
40°	32910	34392	32910
45°	18350	19048	18629
50°	8596	10899	8596
55°	3097	5935	3441
60°	3552	3552	3552
65°	3852	4203	3852
70°	4760	4327	4760
75°	4384	4384	4384
80°	4546	3694	4546
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.1	16.5
10°-20°	225.1	36.6
20°-30°	181.8	29.6
30°-40°	71.8	11.7
40°-50°	22.1	3.6
50°-60°	5.7	0.9
60°-70°	3.4	0.6
70°-80°	2.5	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°	507.9	82.7
0°-40°	579.7	94.4
0°-60°	607.5	98.9
0°-90°	614.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	614.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1094	1096	1097	1094	1092	101
15°	817	819	824	821	816	224
25°	372	390	420	397	379	173
35°	103	106	110	107	104	69
45°	26	27	27	27	27	22
55°	4	5	7	5	4	5
65°	3	4	4	4	3	3
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°	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1118.2	1118.9	1119.8	1118.5	1115.2
5°	1094.2	1096.1	1096.8	1094.5	1091.8
7.5°	1054.6	1052.3	1054.3	1050.3	1047.1
10°	990.1	987.1	986.1	980.2	980.2
12.5°	910.4	909.4	910.0	907.1	902.5
15°	816.8	819.1	824.4	821.1	815.5
17.5°	717.7	721.0	725.6	724.6	717.0
20°	607.7	617.2	623.8	617.6	606.7
22.5°	482.5	502.9	519.7	506.6	488.8
25°	372.2	390.0	419.6	397.2	379.4
27.5°	282.3	295.1	322.1	300.1	287.9
30°	206.8	214.7	233.5	219.0	210.5
32.5°	147.9	153.5	161.4	152.8	148.5
35°	103.4	106.4	110.0	106.7	103.7
37.5°	72.8	73.8	76.4	73.8	72.5
40°	51.1	51.4	53.4	51.7	51.1
42.5°	36.9	36.9	37.9	37.2	36.9
45°	26.3	26.7	27.3	27.0	26.7
47.5°	18.8	19.4	19.4	19.8	18.4
50°	11.2	13.8	14.2	13.8	11.2
52.5°	5.9	8.2	10.2	8.2	5.9
55°	3.6	4.9	6.9	4.9	4.0
57.5°	3.6	3.6	4.6	4.0	3.6
60°	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.3	3.6	3.6	3.6	3.3
67.5°	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.0	3.3	3.3
72.5°	3.0	3.0	2.6	3.0	3.0
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.6	1.6	1.3	1.6	1.6
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)