

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: P283839

Luminaire Tested: **LDA2B059030D010 EU2B05WFL559030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283839  
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: LDA2B059030D010 EU2B05WFL559030 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 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: 574.8 lumens  
Efficiency: N/A  
Efficacy: 82.1 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

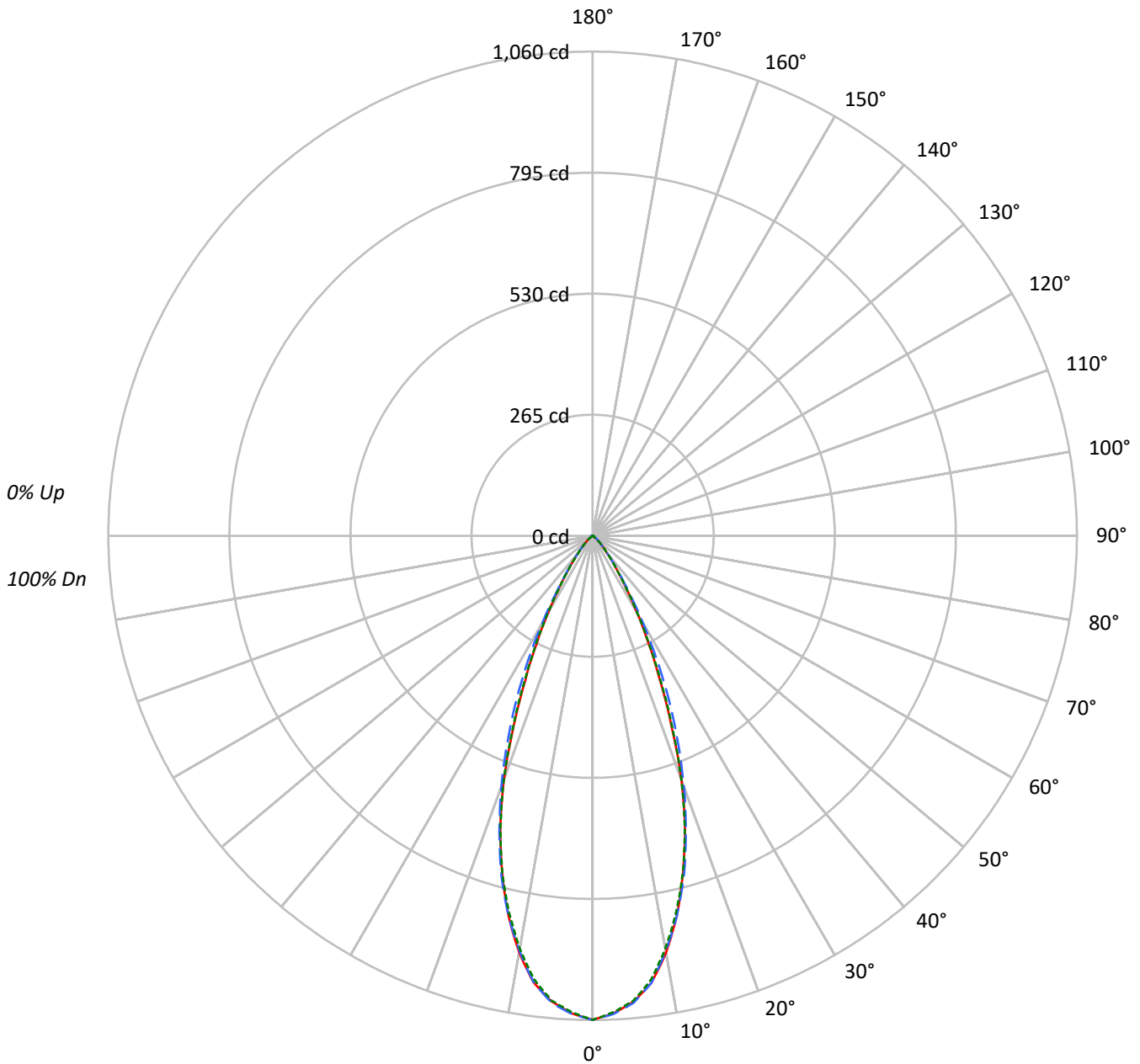
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	522815	522815	522815
5°	507132	508321	506043
10°	464201	462348	459542
15°	390429	394056	389816
20°	298582	306509	298109
25°	189602	213772	193304
30°	110291	124476	112228
35°	58301	62035	58482
40°	30785	32137	30785
45°	17234	17862	17443
50°	8059	10208	8059
55°	2925	5591	3183
60°	3355	3355	3355
65°	3619	3969	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	4262	3409	4262
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	16.5
10°-20°	210.6	36.6
20°-30°	170.1	29.6
30°-40°	67.2	11.7
40°-50°	20.6	3.6
50°-60°	5.3	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°	475.3	82.7
0°-40°	542.5	94.4
0°-60°	568.5	98.9
0°-90°	574.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	574.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1024	1026	1026	1024	1022	95
15°	764	767	772	768	763	210
25°	348	365	393	372	355	162
35°	97	100	103	100	97	65
45°	25	25	26	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°	1059.7	1059.7	1059.7	1059.7	1059.7
2.5°	1046.5	1047.1	1048.0	1046.8	1043.7
5°	1024.0	1025.8	1026.4	1024.3	1021.8
7.5°	987.0	984.8	986.7	983.0	979.9
10°	926.6	923.8	922.9	917.3	917.3
12.5°	852.0	851.1	851.7	848.9	844.6
15°	764.4	766.6	771.5	768.4	763.2
17.5°	671.7	674.7	679.1	678.1	671.0
20°	568.7	577.6	583.8	578.0	567.8
22.5°	451.6	470.7	486.4	474.1	457.4
25°	348.3	365.0	392.7	371.7	355.1
27.5°	264.2	276.2	301.5	280.8	269.4
30°	193.6	201.0	218.5	205.0	197.0
32.5°	138.4	143.6	151.0	143.0	139.0
35°	96.8	99.6	103.0	99.9	97.1
37.5°	68.1	69.0	71.5	69.0	67.8
40°	47.8	48.1	49.9	48.4	47.8
42.5°	34.5	34.5	35.4	34.8	34.5
45°	24.7	25.0	25.6	25.3	25.0
47.5°	17.6	18.2	18.2	18.5	17.3
50°	10.5	12.9	13.3	12.9	10.5
52.5°	5.5	7.7	9.6	7.7	5.5
55°	3.4	4.6	6.5	4.6	3.7
57.5°	3.4	3.4	4.3	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°	1.8	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)