

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: P283857

Luminaire Tested: **LDA2B059050D010 EU2B05WFL559050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283857  
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 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: 626.1 lumens  
Efficiency: N/A  
Efficacy: 89.4 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

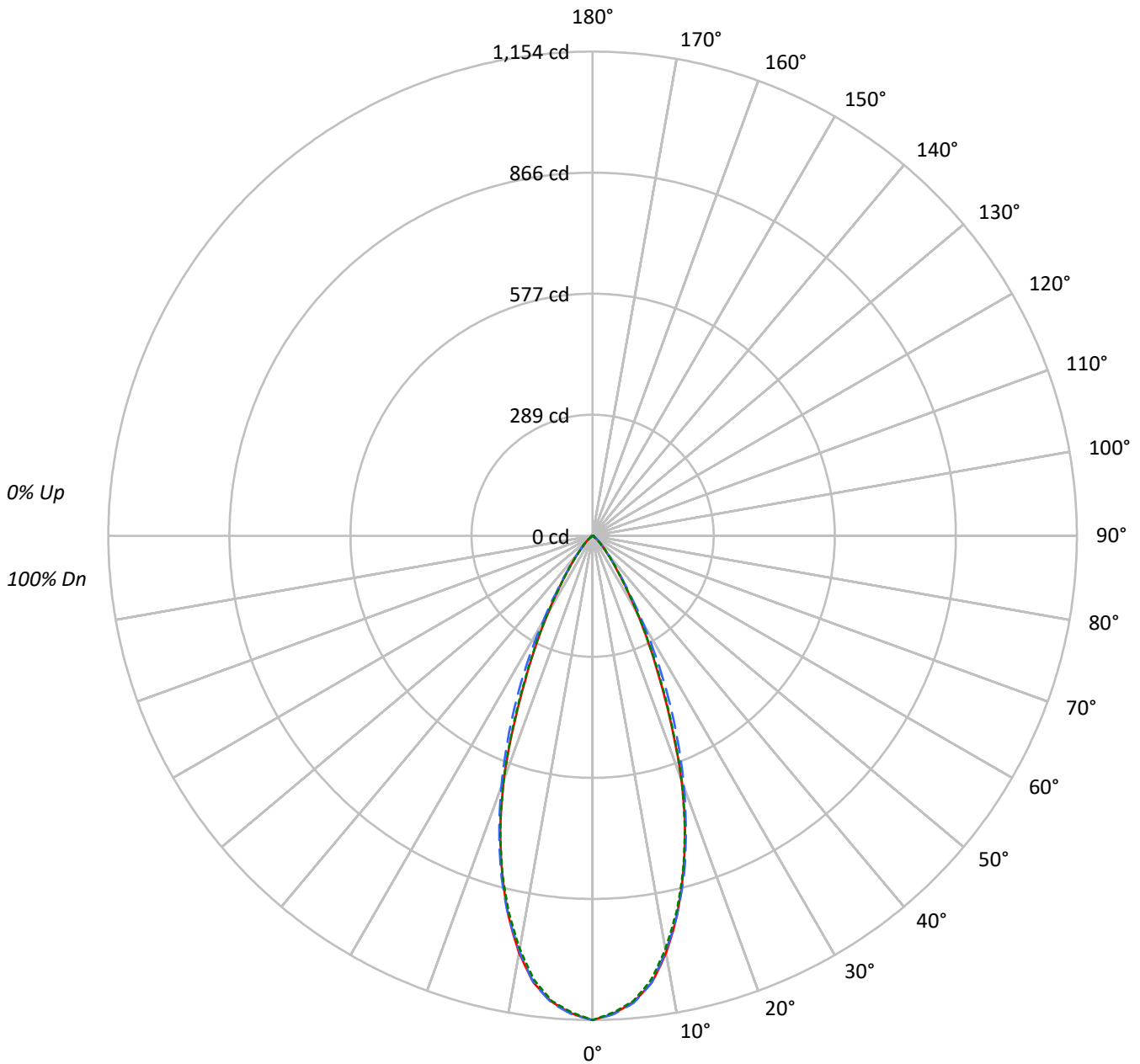
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	569488	569488	569488
5°	552398	553685	551209
10°	505632	503578	500572
15°	425315	429248	424600
20°	325253	333863	324728
25°	206532	232825	210560
30°	120147	135585	122197
35°	63481	67516	63722
40°	33490	35036	33490
45°	18769	19466	18978
50°	8750	11052	8750
55°	3183	6107	3441
60°	3651	3651	3651
65°	3969	4319	3969
70°	4904	4327	4904
75°	4575	4575	4575
80°	4830	3694	4830
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	16.5
10°-20°	229.4	36.6
20°-30°	185.3	29.6
30°-40°	73.2	11.7
40°-50°	22.5	3.6
50°-60°	5.8	0.9
60°-70°	3.5	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°	517.7	82.7
0°-40°	591.0	94.4
0°-60°	619.2	98.9
0°-90°	626.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	626.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1115	1117	1118	1116	1113	103
15°	833	835	840	837	831	229
25°	379	398	428	405	387	177
35°	105	108	112	109	106	71
45°	27	27	28	28	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°	1154.3	1154.3	1154.3	1154.3	1154.3
2.5°	1139.9	1140.5	1141.5	1140.2	1136.8
5°	1115.4	1117.4	1118.0	1115.7	1113.0
7.5°	1075.1	1072.7	1074.7	1070.7	1067.3
10°	1009.3	1006.2	1005.2	999.2	999.2
12.5°	928.0	927.0	927.7	924.7	920.0
15°	832.7	835.0	840.4	837.0	831.3
17.5°	731.6	735.0	739.7	738.6	730.9
20°	619.5	629.2	635.9	629.5	618.5
22.5°	491.9	512.7	529.8	516.4	498.3
25°	379.4	397.5	427.7	404.9	386.8
27.5°	287.7	300.8	328.4	305.9	293.4
30°	210.9	218.9	238.0	223.3	214.5
32.5°	150.8	156.5	164.5	155.8	151.4
35°	105.4	108.4	112.1	108.8	105.8
37.5°	74.2	75.2	77.9	75.2	73.9
40°	52.0	52.4	54.4	52.7	52.0
42.5°	37.6	37.6	38.6	37.9	37.6
45°	26.9	27.2	27.9	27.5	27.2
47.5°	19.1	19.8	19.8	20.1	18.8
50°	11.4	14.1	14.4	14.1	11.4
52.5°	6.0	8.4	10.4	8.4	6.0
55°	3.7	5.0	7.1	5.0	4.0
57.5°	3.7	3.7	4.7	4.0	3.7
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.4	3.7	3.7	3.7	3.4
67.5°	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.0	3.4	3.4
72.5°	3.0	3.0	2.7	3.0	3.0
75°	2.4	2.4	2.4	2.4	2.4
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.7	1.7	1.3	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)