

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: P283842

Luminaire Tested: **LDA2B059030D010 EU2B05WFL559030 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283842  
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 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: 533.6 lumens  
Efficiency: N/A  
Efficacy: 76.2 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

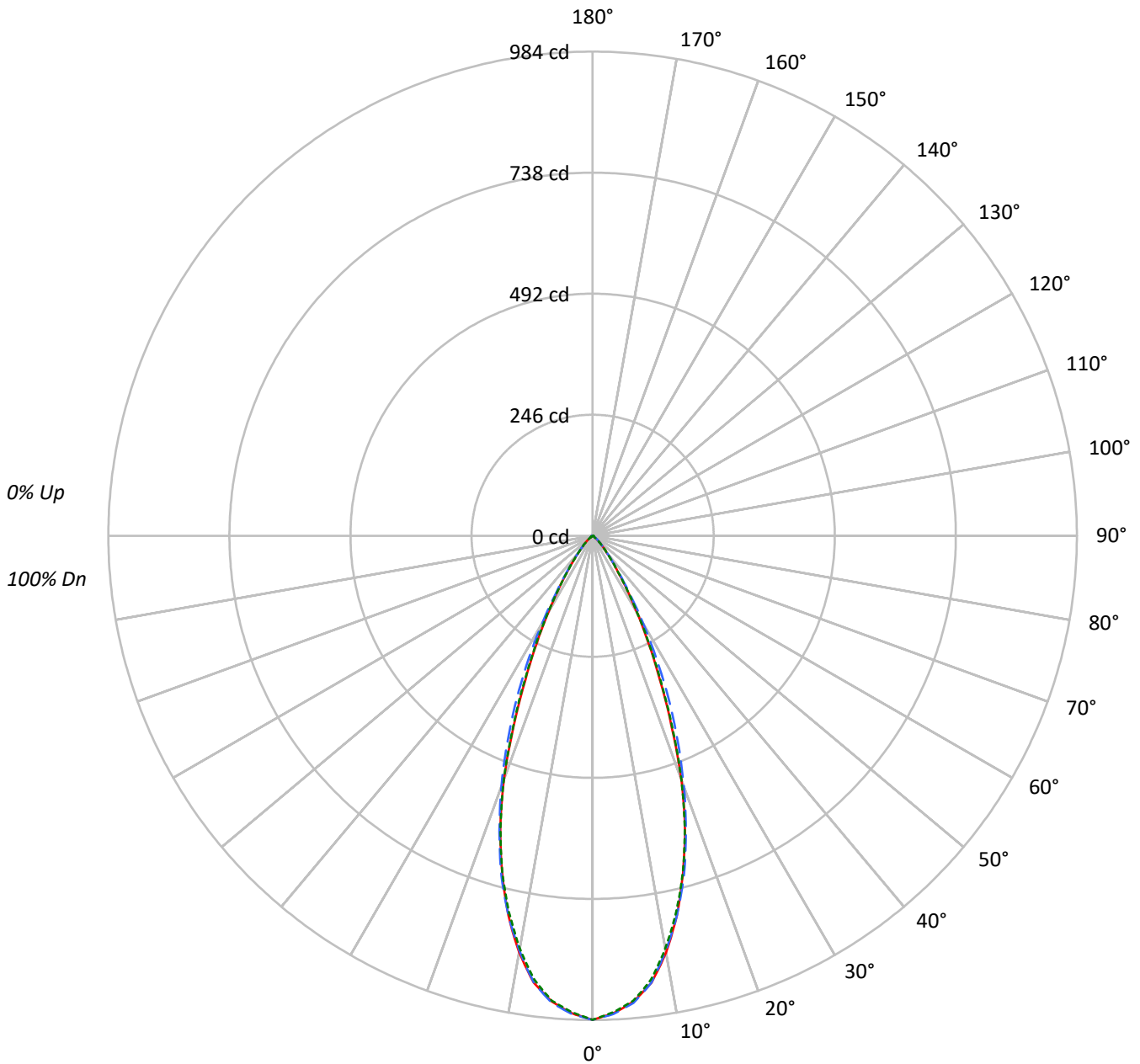
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	485320	485320	485320
5°	470732	471871	469741
10°	430887	429183	426578
15°	362439	365810	361826
20°	277161	284511	276688
25°	175993	198421	179423
30°	102372	115589	104138
35°	54085	57578	54266
40°	28531	29883	28531
45°	15978	16536	16187
50°	7445	9441	7445
55°	2666	5161	2925
60°	3059	3059	3059
65°	3385	3619	3385
70°	4183	3750	4183
75°	3812	3812	3812
80°	3978	3125	3978
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	16.5
10°-20°	195.5	36.6
20°-30°	157.9	29.6
30°-40°	62.4	11.7
40°-50°	19.2	3.6
50°-60°	4.9	0.9
60°-70°	3.0	0.6
70°-80°	2.2	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°	441.2	82.7
0°-40°	503.6	94.4
0°-60°	527.7	98.9
0°-90°	533.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	950	952	953	951	948	88
15°	710	712	716	713	708	195
25°	323	339	364	345	330	151
35°	90	92	96	93	90	60
45°	23	23	24	24	23	19
55°	3	4	6	4	3	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°	983.7	983.7	983.7	983.7	983.7
2.5°	971.4	972.0	972.8	971.7	968.8
5°	950.5	952.2	952.8	950.8	948.5
7.5°	916.2	914.2	915.9	912.5	909.6
10°	860.1	857.5	856.7	851.5	851.5
12.5°	790.9	790.0	790.6	788.0	784.0
15°	709.6	711.6	716.2	713.3	708.4
17.5°	623.5	626.3	630.3	629.5	622.9
20°	527.9	536.2	541.9	536.5	527.0
22.5°	419.2	436.9	451.5	440.1	424.6
25°	323.3	338.8	364.5	345.1	329.6
27.5°	245.2	256.4	279.8	260.7	250.1
30°	179.7	186.6	202.9	190.3	182.8
32.5°	128.5	133.3	140.2	132.8	129.0
35°	89.8	92.4	95.6	92.7	90.1
37.5°	63.2	64.1	66.4	64.1	62.9
40°	44.3	44.6	46.4	44.9	44.3
42.5°	32.0	32.0	32.9	32.3	32.0
45°	22.9	23.2	23.7	23.5	23.2
47.5°	16.3	16.9	16.9	17.2	16.0
50°	9.7	12.0	12.3	12.0	9.7
52.5°	5.2	7.2	8.9	7.2	5.2
55°	3.1	4.3	6.0	4.3	3.4
57.5°	3.1	3.1	4.0	3.4	3.1
60°	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1
65°	2.9	3.1	3.1	3.1	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.6	2.9	2.9
72.5°	2.6	2.6	2.3	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.1	1.4	1.4
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)