

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: P282254

Luminaire Tested: **LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B109040D010 EU2B10NFL259040 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 848.5 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

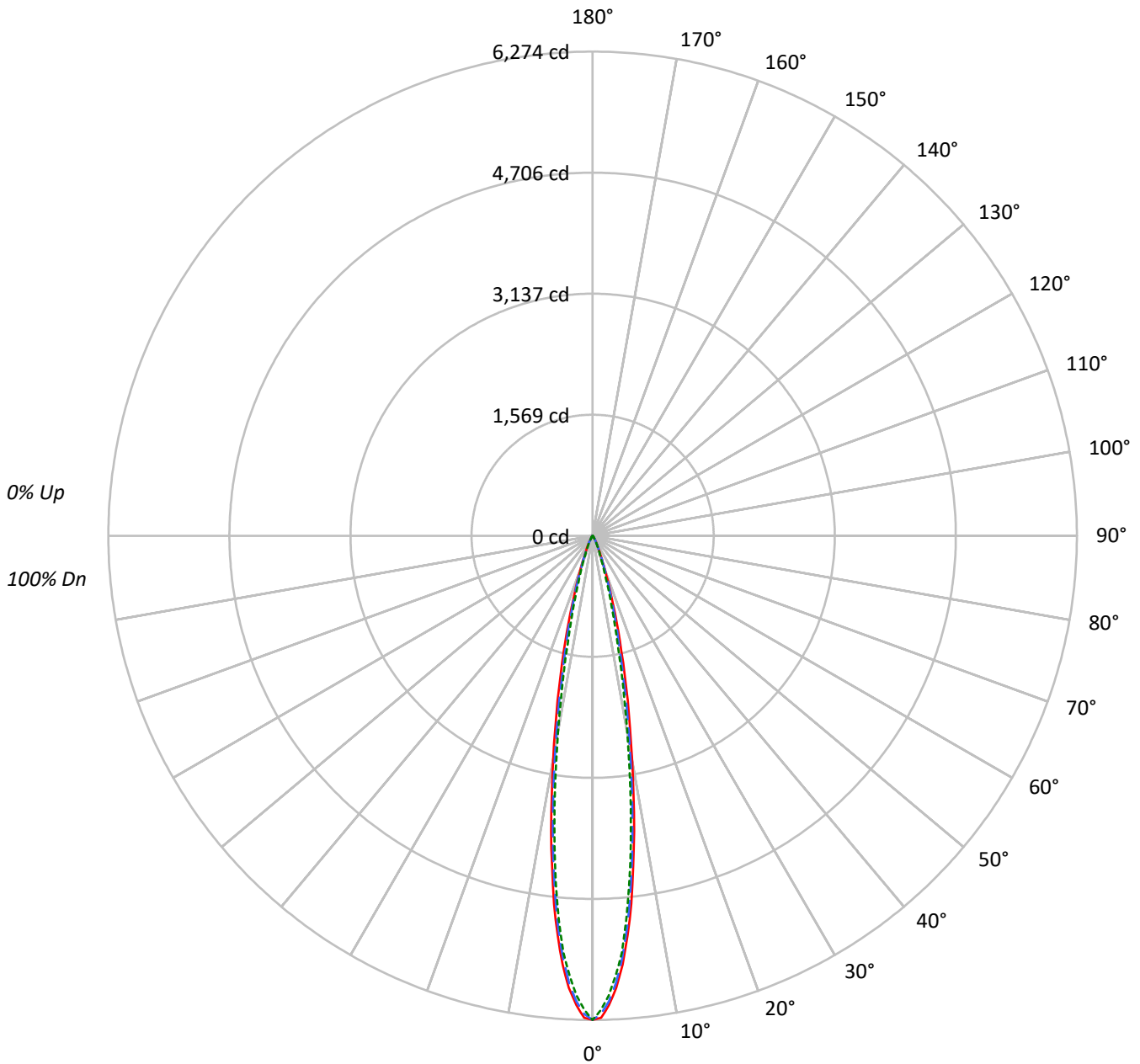
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

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

	0°	45°	90°
0°	3095401	3095401	3095401
5°	2575677	2528480	2477420
10°	1475314	1384438	1292059
15°	656181	582784	488394
20°	238046	223818	177353
25°	91399	85356	73489
30°	39422	36688	32529
35°	18671	18671	15418
40°	9339	9661	7793
45°	5372	5093	4744
50°	3684	3377	3377
55°	2925	2064	2494
60°	2368	1480	1875
65°	1751	1167	1751
70°	1442	721	1442
75°	953	953	953
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.1	48.1
10°-20°	330.2	38.9
20°-30°	79.6	9.4
30°-40°	20.3	2.4
40°-50°	6.0	0.7
50°-60°	2.6	0.3
60°-70°	1.3	0.2
70°-80°	0.4	0.1
80°-90°	0.0	0.0
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°	817.9	96.4
0°-40°	838.2	98.8
0°-60°	846.8	99.8
0°-90°	848.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	848.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6274	6274	6274	6274	6274	
5°	5201	5153	5106	5061	5002	421
15°	1285	1254	1141	1028	956	366
25°	168	169	157	142	135	87
35°	31	32	31	28	26	21
45°	8	8	7	7	7	7
55°	3	3	2	2	3	3
65°	2	2	1	1	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6274.1	6274.1	6274.1	6274.1	6274.1
1°	6246.0	6202.4	6197.1	6224.2	6144.4
2°	6086.3	6055.3	6037.4	6053.4	5962.9
3°	5867.1	5837.1	5804.7	5805.2	5704.0
4°	5568.6	5544.8	5490.2	5473.7	5415.2
5°	5200.8	5152.9	5105.5	5061.0	5002.4
6°	4794.3	4732.4	4664.7	4598.4	4538.4
7°	4316.3	4275.1	4185.6	4095.1	4044.3
8°	3866.7	3800.4	3695.9	3582.7	3539.6
9°	3383.3	3335.9	3215.9	3084.3	3041.2
10°	2944.9	2895.6	2763.5	2616.9	2579.1
11°	2533.6	2487.2	2349.7	2195.9	2155.7
12°	2185.7	2119.9	1962.2	1828.6	1789.4
13°	1839.2	1794.2	1644.7	1512.6	1436.7
14°	1544.6	1507.3	1371.8	1255.7	1175.4
15°	1284.7	1254.2	1141.0	1027.8	956.2
16°	1053.9	1035.0	945.5	836.2	777.6
17°	855.0	837.6	780.5	679.9	630.5
18°	690.5	688.1	640.7	553.6	509.5
19°	568.1	567.1	523.6	450.5	414.2
20°	453.4	459.7	426.3	362.4	337.8
21°	369.7	373.1	346.5	298.1	275.8
22°	301.0	303.4	286.0	246.3	234.2
23°	246.8	248.2	233.7	204.2	193.6
24°	203.2	204.2	191.1	170.3	161.1
25°	167.9	168.9	156.8	142.3	135.0
26°	139.4	140.3	129.7	119.5	112.3
27°	115.6	117.6	106.9	100.6	92.9
28°	98.7	99.2	89.5	85.6	78.4
29°	80.8	83.7	75.5	72.1	66.8
30°	69.2	70.6	64.4	61.9	57.1
32.5°	46.0	46.9	44.0	42.1	38.2
35°	31.0	31.5	31.0	28.1	25.6
37.5°	21.3	21.3	21.8	18.4	17.4
40°	14.5	14.5	15.0	12.6	12.1
42.5°	10.6	10.6	10.2	8.7	8.7
45°	7.7	7.7	7.3	6.8	6.8
47.5°	6.3	5.8	5.3	5.3	5.3
50°	4.8	4.8	4.4	3.9	4.4
52.5°	3.9	3.9	3.4	3.4	3.4
55°	3.4	2.9	2.4	2.4	2.9
57.5°	2.4	2.4	1.9	1.9	2.4
60°	2.4	1.9	1.5	1.9	1.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.5	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.5	0.5	1.0
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







62.5°	1.9	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.0	1.0	1.5



(END OF REPORT)