

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: P283491

Luminaire Tested: **LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MB  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 486.8 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

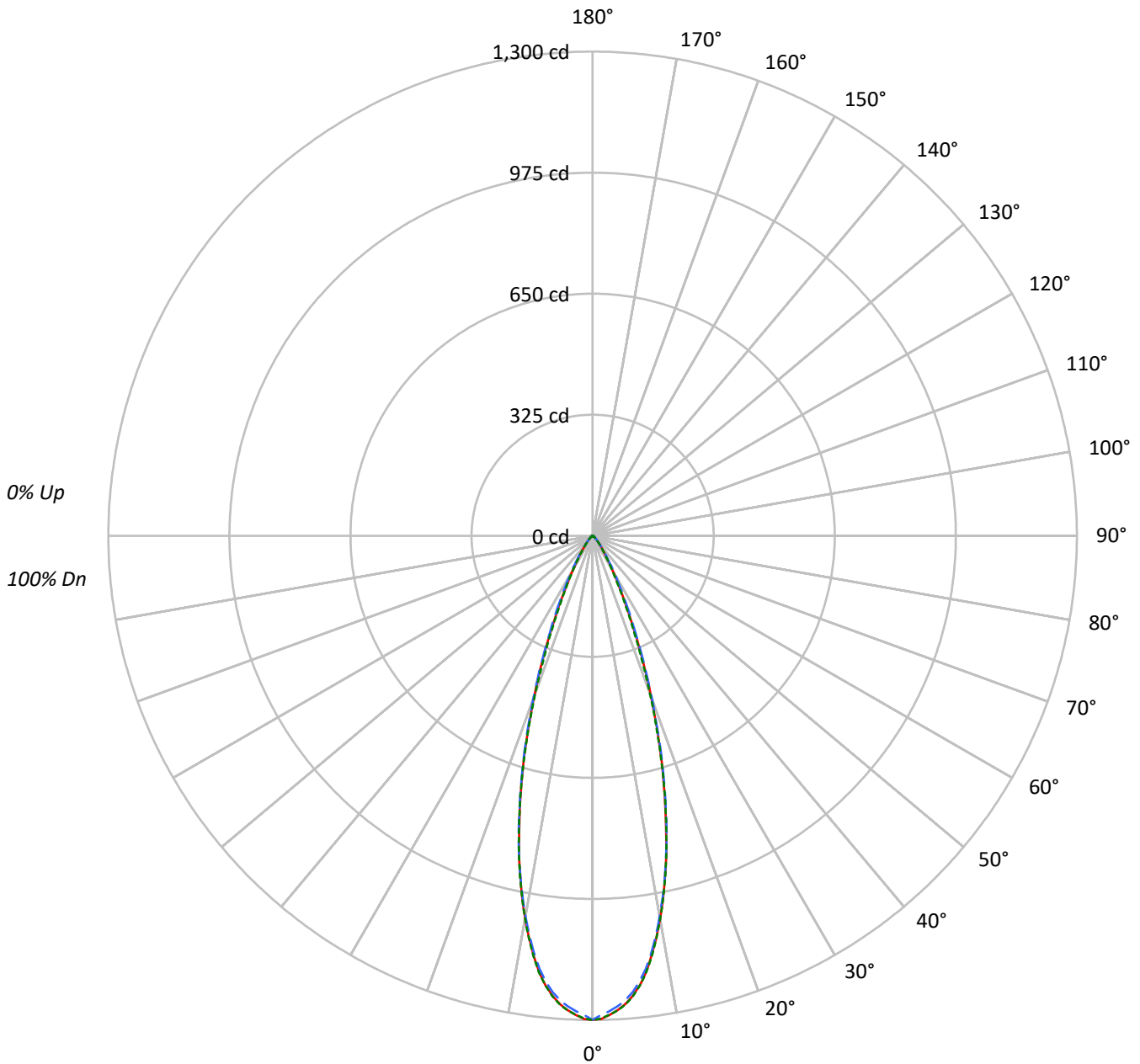
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

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

	0°	45°	90°
0°	641321	641321	641321
5°	613759	609153	614700
10°	522915	519609	523466
15°	385424	387927	386650
20°	240619	245029	235264
25°	124278	133369	118018
30°	59589	68305	56798
35°	30777	34029	28789
40°	17260	18097	16359
45°	10466	10466	10117
50°	5449	6678	5449
55°	2838	4473	3097
60°	3256	3256	3256
65°	3502	3502	3502
70°	4327	3895	4327
75°	4194	4194	4194
80°	3978	3978	3978
85°	2830	2830	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	23.0
10°-20°	205.4	42.2
20°-30°	111.3	22.9
30°-40°	35.7	7.3
40°-50°	12.2	2.5
50°-60°	4.3	0.9
60°-70°	3.1	0.6
70°-80°	2.3	0.5
80°-90°	0.6	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°	428.5	88.0
0°-40°	464.3	95.4
0°-60°	480.7	98.8
0°-90°	486.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1239	1232	1230	1242	1241	112
15°	755	761	760	763	757	205
25°	228	239	245	228	217	109
35°	51	53	56	51	48	34
45°	15	15	15	15	14	12
55°	3	4	5	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1299.9	1299.9	1299.9	1299.9	1299.9
1°	1297.7	1288.5	1287.1	1299.1	1296.4
2°	1287.4	1278.6	1277.3	1289.3	1286.8
3°	1275.9	1268.0	1265.2	1277.8	1276.2
4°	1260.6	1253.2	1250.8	1263.3	1262.0
5°	1239.3	1231.7	1230.0	1242.3	1241.2
6°	1213.1	1206.8	1203.8	1216.1	1213.9
7°	1180.3	1174.6	1171.3	1180.3	1181.4
8°	1137.7	1135.0	1131.2	1140.2	1140.2
9°	1092.4	1089.9	1085.8	1094.0	1094.0
10°	1043.8	1042.1	1037.2	1044.9	1044.9
11°	990.5	989.7	986.1	992.4	992.4
12°	934.5	936.4	933.2	938.6	936.7
13°	878.5	877.7	878.0	882.1	879.1
14°	815.2	820.1	820.9	823.4	818.7
15°	754.6	760.8	759.5	763.0	757.0
16°	692.6	699.7	699.4	700.2	694.5
17°	634.7	638.8	639.0	638.2	631.1
18°	573.0	578.7	578.7	577.3	568.9
19°	512.6	517.0	520.0	517.0	507.1
20°	458.3	461.3	466.7	459.1	448.1
21°	406.1	408.8	413.5	404.5	392.4
22°	356.1	359.7	364.0	353.7	341.1
23°	309.4	317.6	319.2	305.0	294.4
24°	266.5	275.8	278.6	264.1	252.9
25°	228.3	238.7	245.0	228.0	216.8
26°	195.3	205.4	213.0	196.1	185.4
27°	166.3	177.0	184.9	169.0	158.9
28°	141.5	151.8	160.0	145.3	135.7
29°	122.9	128.9	137.1	124.8	116.1
30°	104.6	111.1	119.9	107.3	99.7
32.5°	71.8	75.4	82.2	74.6	68.5
35°	51.1	53.3	56.5	51.3	47.8
37.5°	36.3	37.4	39.3	36.3	34.4
40°	26.8	27.3	28.1	26.5	25.4
42.5°	19.9	20.2	20.2	19.7	19.1
45°	15.0	15.3	15.0	15.0	14.5
47.5°	10.9	11.7	11.5	11.5	10.7
50°	7.1	8.7	8.7	8.5	7.1
52.5°	4.4	6.0	6.8	6.0	4.6
55°	3.3	4.1	5.2	4.1	3.6
57.5°	3.3	3.3	3.8	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.5	2.7	2.5
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.5	0.5	0.5	0.5	0.5
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°







62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.0	3.3	3.0



(END OF REPORT)