

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: P283490

Luminaire Tested: **LDA2B059024D010 EU2B05FL409024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283490  
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 2LBAPINSQ1MW  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 502.9 lumens  
Efficiency: N/A  
Efficacy: 71.8 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

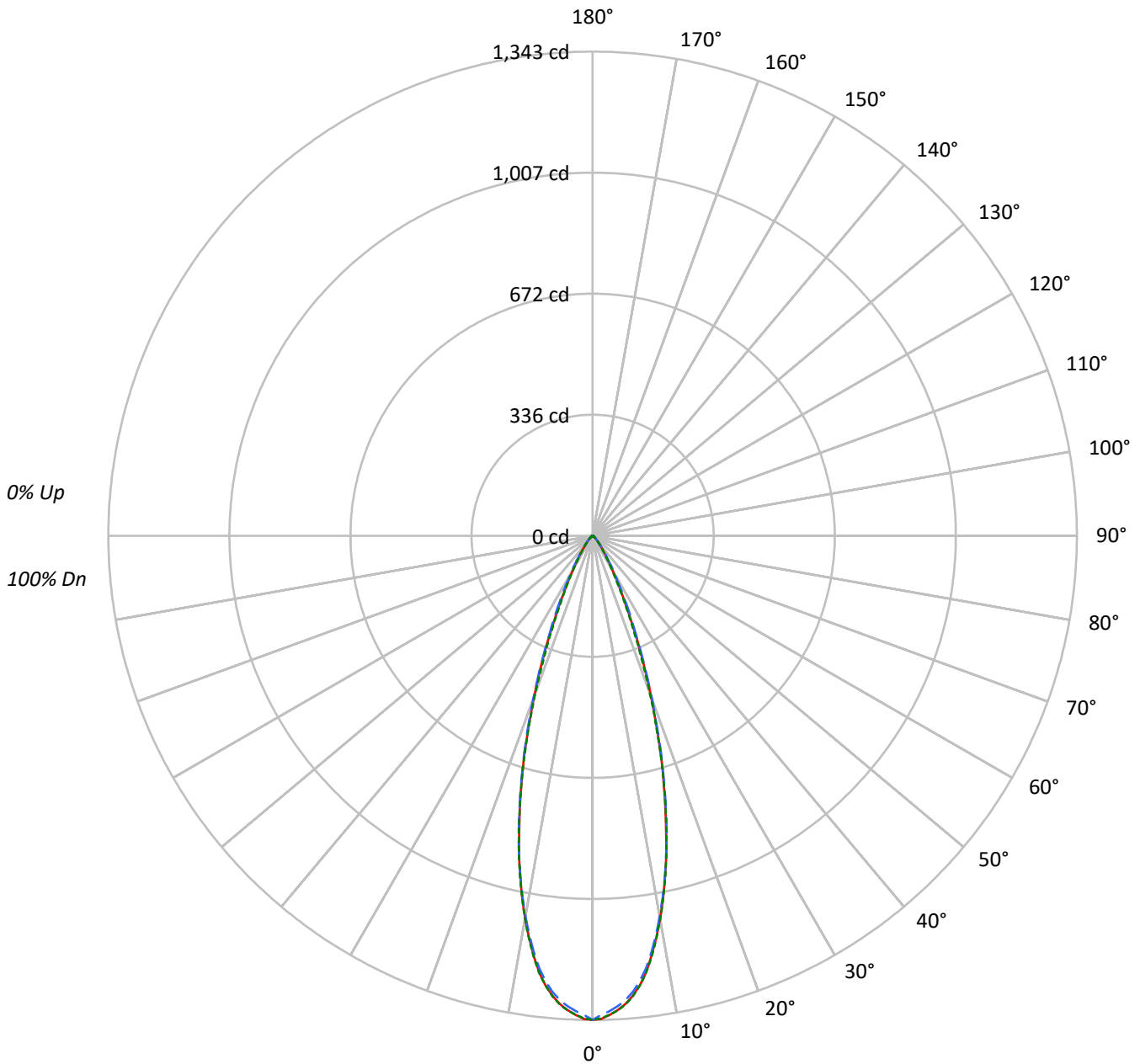
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

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

	0°	45°	90°
0°	662536	662536	662536
5°	634064	629310	635005
10°	540199	536792	540750
15°	398142	400747	399419
20°	248547	253114	243086
25°	128416	137779	121938
30°	61583	70584	58678
35°	31801	35173	29753
40°	17775	18742	16874
45°	10815	10815	10466
50°	5603	6908	5603
55°	2925	4645	3183
60°	3355	3355	3355
65°	3619	3619	3619
70°	4472	4039	4472
75°	4384	4384	4384
80°	3978	3978	3978
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	23.0
10°-20°	212.2	42.2
20°-30°	115.0	22.9
30°-40°	36.9	7.3
40°-50°	12.6	2.5
50°-60°	4.4	0.9
60°-70°	3.2	0.6
70°-80°	2.3	0.5
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°	442.7	88.0
0°-40°	479.6	95.4
0°-60°	496.6	98.8
0°-90°	502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1280	1272	1271	1283	1282	116
15°	780	786	785	788	782	211
25°	236	247	253	236	224	113
35°	53	55	58	53	49	36
45°	16	16	16	16	15	12
55°	3	4	5	4	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°	1342.9	1342.9	1342.9	1342.9	1342.9
1°	1340.6	1331.0	1329.6	1342.0	1339.2
2°	1329.9	1320.9	1319.5	1331.9	1329.3
3°	1318.1	1309.9	1307.1	1320.0	1318.3
4°	1302.3	1294.6	1292.1	1305.1	1303.7
5°	1280.3	1272.4	1270.7	1283.4	1282.2
6°	1253.2	1246.7	1243.6	1256.3	1254.0
7°	1219.3	1213.4	1210.0	1219.3	1220.4
8°	1175.3	1172.5	1168.5	1177.8	1177.8
9°	1128.5	1125.9	1121.7	1130.2	1130.2
10°	1078.3	1076.6	1071.5	1079.4	1079.4
11°	1023.2	1022.4	1018.7	1025.2	1025.2
12°	965.4	967.4	964.0	969.6	967.7
13°	907.6	906.7	907.0	911.2	908.1
14°	842.1	847.2	848.0	850.6	845.8
15°	779.5	786.0	784.6	788.2	782.0
16°	715.5	722.8	722.5	723.4	717.4
17°	655.6	659.9	660.2	659.3	652.0
18°	591.9	597.8	597.8	596.4	587.7
19°	529.5	534.1	537.2	534.1	523.9
20°	473.4	476.5	482.1	474.2	463.0
21°	419.5	422.3	427.1	417.8	405.4
22°	367.9	371.6	376.1	365.3	352.4
23°	319.6	328.1	329.8	315.1	304.1
24°	275.3	284.9	287.8	272.8	261.2
25°	235.9	246.6	253.1	235.6	224.0
26°	201.7	212.2	220.1	202.6	191.6
27°	171.8	182.8	191.0	174.6	164.2
28°	146.1	156.9	165.3	150.1	140.2
29°	127.0	133.2	141.6	128.9	119.9
30°	108.1	114.8	123.9	110.9	103.0
32.5°	74.2	77.9	84.9	77.0	70.8
35°	52.8	55.0	58.4	53.0	49.4
37.5°	37.5	38.7	40.6	37.5	35.5
40°	27.6	28.2	29.1	27.4	26.2
42.5°	20.6	20.9	20.9	20.3	19.7
45°	15.5	15.8	15.5	15.5	15.0
47.5°	11.3	12.1	11.8	11.8	11.0
50°	7.3	9.0	9.0	8.7	7.3
52.5°	4.5	6.2	7.1	6.2	4.8
55°	3.4	4.2	5.4	4.2	3.7
57.5°	3.4	3.4	3.9	3.4	3.4
60°	3.4	3.4	3.4	3.4	3.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
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	2.5
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.6	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°







62.5°	3.4	3.4	3.4	3.4	3.4
65°	3.1	3.4	3.1	3.4	3.1



(END OF REPORT)