

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: P283533

Luminaire Tested: **LDA2B059730D010 EU2B05FL409730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283533  
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: LDA2B059730D010 EU2B05FL409730 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: 502.3 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

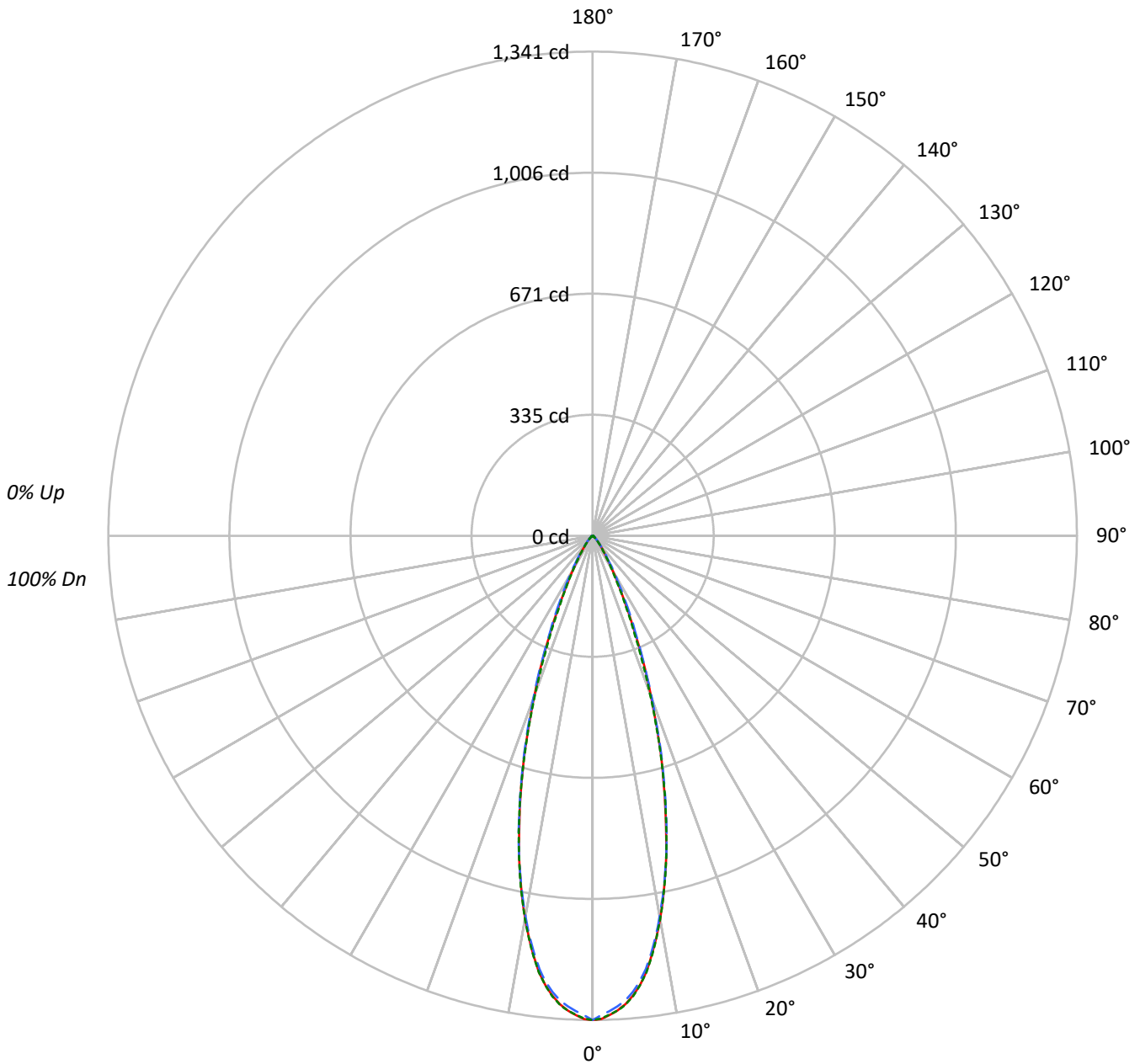
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	661746	661746	661746
5°	633321	628567	634262
10°	539548	536141	540099
15°	397682	400287	398959
20°	248232	252852	242771
25°	128252	137615	121774
30°	61469	70470	58621
35°	31740	35113	29693
40°	17775	18677	16874
45°	10815	10815	10396
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°	115.4	23.0
10°-20°	211.9	42.2
20°-30°	114.9	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°	442.2	88.0
0°-40°	479.1	95.4
0°-60°	496.0	98.8
0°-90°	502.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	502.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1279	1271	1269	1282	1281	116
15°	779	785	784	787	781	211
25°	236	246	253	235	224	113
35°	53	55	58	53	49	35
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°	1341.3	1341.3	1341.3	1341.3	1341.3
1°	1339.1	1329.5	1328.1	1340.5	1337.6
2°	1328.3	1319.3	1317.9	1330.3	1327.8
3°	1316.5	1308.3	1305.5	1318.5	1316.8
4°	1300.7	1293.1	1290.6	1303.6	1302.1
5°	1278.8	1270.9	1269.2	1281.9	1280.7
6°	1251.7	1245.2	1242.1	1254.8	1252.5
7°	1217.9	1212.0	1208.6	1217.9	1219.0
8°	1173.9	1171.1	1167.2	1176.5	1176.5
9°	1127.2	1124.6	1120.4	1128.8	1128.8
10°	1077.0	1075.3	1070.2	1078.1	1078.1
11°	1022.0	1021.2	1017.5	1024.0	1024.0
12°	964.3	966.3	962.9	968.5	966.5
13°	906.5	905.7	905.9	910.2	907.1
14°	841.1	846.2	847.1	849.6	844.8
15°	778.6	785.1	783.7	787.3	781.1
16°	714.6	721.9	721.7	722.5	716.6
17°	654.9	659.1	659.4	658.5	651.2
18°	591.2	597.1	597.1	595.7	587.0
19°	528.9	533.4	536.5	533.4	523.3
20°	472.8	475.9	481.6	473.7	462.4
21°	419.0	421.8	426.6	417.3	404.9
22°	367.5	371.1	375.6	364.9	352.0
23°	319.3	327.7	329.4	314.8	303.8
24°	275.0	284.6	287.4	272.5	260.9
25°	235.6	246.3	252.8	235.3	223.7
26°	201.5	211.9	219.8	202.3	191.3
27°	171.6	182.6	190.8	174.4	164.0
28°	146.0	156.7	165.1	149.9	140.0
29°	126.8	133.0	141.5	128.8	119.8
30°	107.9	114.7	123.7	110.7	102.9
32.5°	74.1	77.8	84.8	76.9	70.7
35°	52.7	54.9	58.3	53.0	49.3
37.5°	37.5	38.6	40.6	37.5	35.5
40°	27.6	28.2	29.0	27.3	26.2
42.5°	20.6	20.9	20.9	20.3	19.7
45°	15.5	15.8	15.5	15.5	14.9
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	7.0	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)