

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: P283483

Luminaire Tested: **LDA2B058040D010 EU2B05FL408040 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283483  
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: LDA2B058040D010 EU2B05FL408040 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 680.9 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

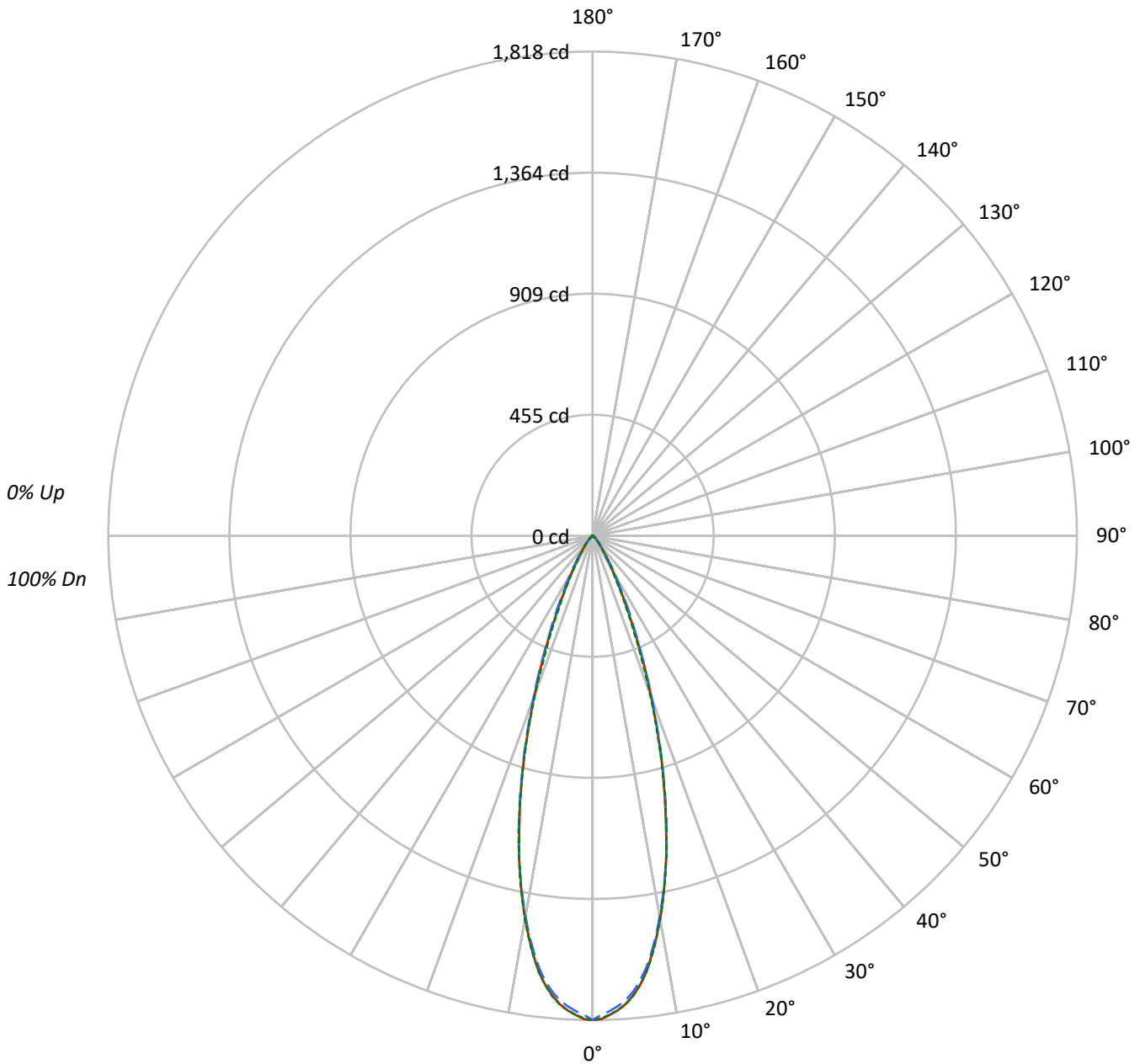
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	897080	897080	897080
5°	858510	852071	859797
10°	731420	726811	732172
15°	539062	542586	540850
20°	336541	342736	329085
25°	173816	186499	165106
30°	83345	95536	79414
35°	43003	47641	40233
40°	24087	25311	22863
45°	14652	14652	14094
50°	7599	9364	7599
55°	3957	6279	4301
60°	4539	4539	4539
65°	4903	4903	4903
70°	6058	5481	6058
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	23.0
10°-20°	287.3	42.2
20°-30°	155.7	22.9
30°-40°	50.0	7.3
40°-50°	17.0	2.5
50°-60°	6.0	0.9
60°-70°	4.4	0.6
70°-80°	3.2	0.5
80°-90°	0.9	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°	599.4	88.0
0°-40°	649.4	95.4
0°-60°	672.4	98.8
0°-90°	680.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1734	1723	1720	1738	1736	157
15°	1055	1064	1062	1067	1059	286
25°	319	334	343	319	303	153
35°	71	74	79	72	67	48
45°	21	21	21	21	20	17
55°	5	6	7	6	5	5
65°	4	5	4	5	4	4
75°	3	3	3	3	3	3
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°	1818.3	1818.3	1818.3	1818.3	1818.3
1°	1815.2	1802.2	1800.3	1817.1	1813.3
2°	1800.7	1788.5	1786.6	1803.4	1799.9
3°	1784.7	1773.6	1769.8	1787.3	1785.0
4°	1763.3	1752.9	1749.5	1767.1	1765.2
5°	1733.5	1722.8	1720.5	1737.7	1736.1
6°	1696.8	1688.0	1683.8	1701.0	1697.9
7°	1651.0	1642.9	1638.4	1651.0	1652.5
8°	1591.4	1587.5	1582.2	1594.8	1594.8
9°	1528.0	1524.5	1518.8	1530.2	1530.2
10°	1460.0	1457.7	1450.8	1461.5	1461.5
11°	1385.5	1384.3	1379.4	1388.1	1388.1
12°	1307.2	1309.8	1305.3	1312.9	1310.2
13°	1228.9	1227.7	1228.1	1233.8	1229.6
14°	1140.2	1147.1	1148.3	1151.7	1145.2
15°	1055.4	1064.2	1062.3	1067.3	1058.9
16°	968.7	978.7	978.3	979.4	971.4
17°	887.7	893.5	893.9	892.7	882.8
18°	801.4	809.4	809.4	807.5	795.7
19°	717.0	723.1	727.3	723.1	709.4
20°	641.0	645.2	652.8	642.1	626.8
21°	568.0	571.8	578.3	565.7	548.9
22°	498.1	503.1	509.2	494.7	477.1
23°	432.8	444.3	446.5	426.7	411.8
24°	372.8	385.8	389.6	369.4	353.7
25°	319.3	333.9	342.6	319.0	303.3
26°	273.1	287.3	298.0	274.3	259.4
27°	232.6	247.5	258.6	236.5	222.3
28°	197.9	212.4	223.8	203.2	189.8
29°	171.9	180.3	191.8	174.6	162.3
30°	146.3	155.5	167.7	150.1	139.4
32.5°	100.5	105.4	115.0	104.3	95.9
35°	71.4	74.5	79.1	71.8	66.8
37.5°	50.8	52.3	55.0	50.8	48.1
40°	37.4	38.2	39.3	37.1	35.5
42.5°	27.9	28.3	28.3	27.5	26.7
45°	21.0	21.4	21.0	21.0	20.2
47.5°	15.3	16.4	16.0	16.0	14.9
50°	9.9	12.2	12.2	11.8	9.9
52.5°	6.1	8.4	9.5	8.4	6.5
55°	4.6	5.7	7.3	5.7	5.0
57.5°	4.6	4.6	5.3	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.8	4.2	4.2
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.1	1.1	1.1	1.5	1.1
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.2	4.6	4.2	4.6	4.2



(END OF REPORT)