

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: P283502

Luminaire Tested: **LDA2B059030D010 EU2B05FL409030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283502  
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: LDA2B059030D010 EU2B05FL409030 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: 565.3 lumens  
Efficiency: N/A  
Efficacy: 80.8 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

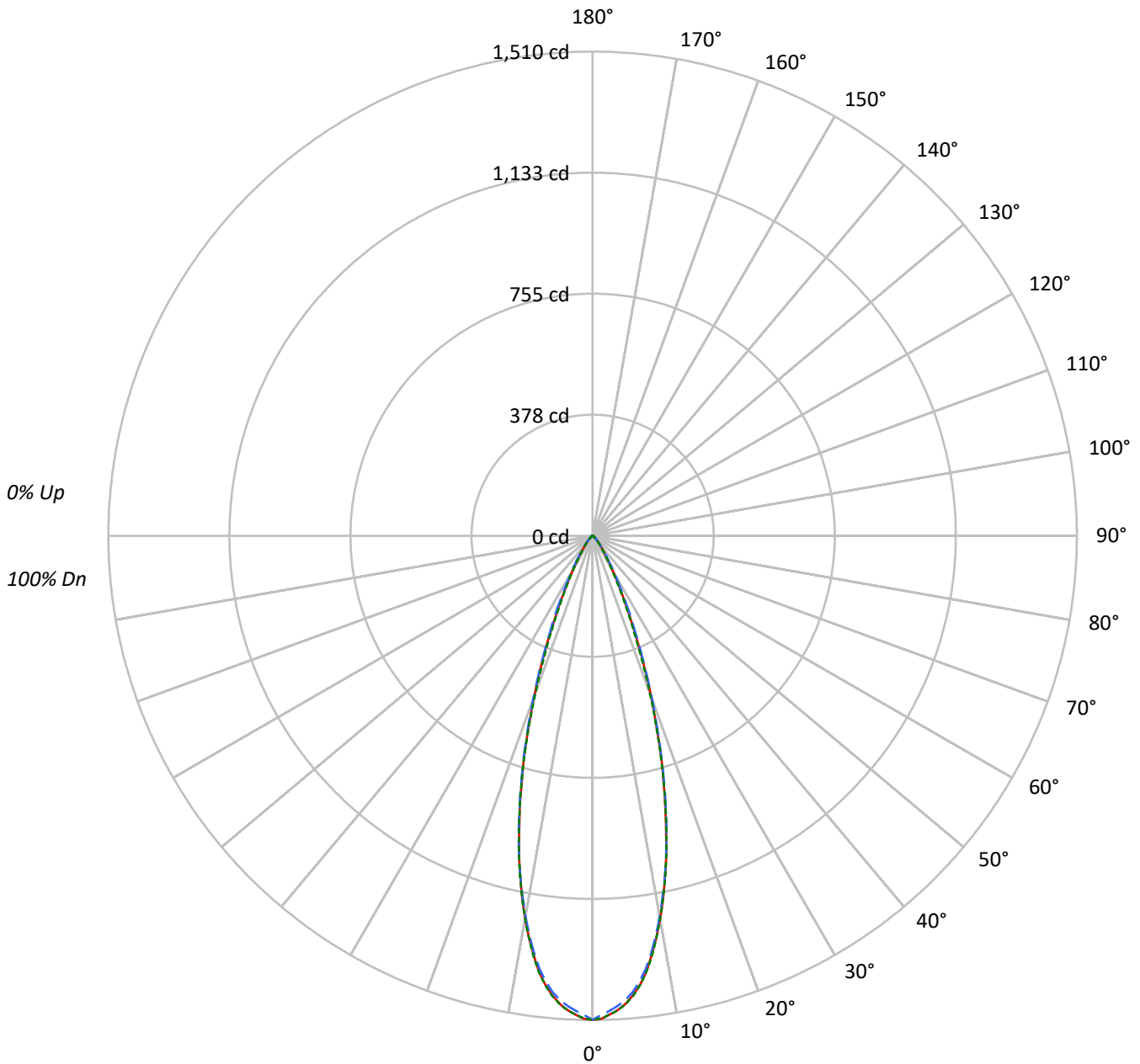
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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																			
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°	744779	744779	744779
5°	712759	707410	713848
10°	607229	603422	607880
15°	447584	450495	449014
20°	279418	284563	273223
25°	144311	154872	137071
30°	69217	79300	65970
35°	35715	39510	33427
40°	20030	21060	18999
45°	12140	12140	11722
50°	6294	7752	6294
55°	3269	5161	3527
60°	3750	3750	3750
65°	4086	4086	4086
70°	5049	4616	5049
75°	4766	4766	4766
80°	4546	4546	4546
85°	3396	3396	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	23.0
10°-20°	238.5	42.2
20°-30°	129.3	22.9
30°-40°	41.5	7.3
40°-50°	14.1	2.5
50°-60°	5.0	0.9
60°-70°	3.6	0.6
70°-80°	2.6	0.5
80°-90°	0.8	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°	497.7	88.0
0°-40°	539.2	95.4
0°-60°	558.3	98.8
0°-90°	565.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1439	1430	1428	1443	1441	130
15°	876	884	882	886	879	238
25°	265	277	284	265	252	127
35°	59	62	66	60	56	40
45°	17	18	17	17	17	14
55°	4	5	6	5	4	4
65°	4	4	4	4	4	4
75°	2	2	2	2	2	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°	1509.6	1509.6	1509.6	1509.6	1509.6
1°	1507.1	1496.3	1494.7	1508.6	1505.5
2°	1495.0	1484.9	1483.3	1497.2	1494.4
3°	1481.7	1472.5	1469.3	1483.9	1482.0
4°	1463.9	1455.4	1452.5	1467.1	1465.5
5°	1439.2	1430.3	1428.4	1442.7	1441.4
6°	1408.7	1401.5	1398.0	1412.2	1409.7
7°	1370.7	1364.0	1360.2	1370.7	1372.0
8°	1321.2	1318.0	1313.6	1324.1	1324.1
9°	1268.6	1265.7	1261.0	1270.5	1270.5
10°	1212.1	1210.2	1204.5	1213.4	1213.4
11°	1150.3	1149.3	1145.2	1152.5	1152.5
12°	1085.3	1087.5	1083.7	1090.0	1087.8
13°	1020.2	1019.3	1019.6	1024.4	1020.9
14°	946.7	952.4	953.3	956.2	950.8
15°	876.3	883.6	882.0	886.1	879.1
16°	804.3	812.5	812.2	813.2	806.5
17°	737.0	741.8	742.1	741.2	732.9
18°	665.4	672.0	672.0	670.4	660.6
19°	595.3	600.3	603.8	600.3	588.9
20°	532.2	535.7	542.0	533.1	520.4
21°	471.6	474.8	480.2	469.7	455.7
22°	413.6	417.7	422.8	410.7	396.1
23°	359.3	368.8	370.7	354.2	341.9
24°	309.5	320.3	323.5	306.7	293.7
25°	265.1	277.2	284.5	264.8	251.8
26°	226.8	238.5	247.4	227.7	215.3
27°	193.1	205.5	214.7	196.3	184.6
28°	164.3	176.3	185.8	168.7	157.6
29°	142.7	149.7	159.2	144.9	134.8
30°	121.5	129.1	139.2	124.6	115.8
32.5°	83.4	87.5	95.5	86.6	79.6
35°	59.3	61.8	65.6	59.6	55.5
37.5°	42.2	43.4	45.7	42.2	40.0
40°	31.1	31.7	32.7	30.8	29.5
42.5°	23.2	23.5	23.5	22.8	22.2
45°	17.4	17.8	17.4	17.4	16.8
47.5°	12.7	13.6	13.3	13.3	12.4
50°	8.2	10.1	10.1	9.8	8.2
52.5°	5.1	7.0	7.9	7.0	5.4
55°	3.8	4.8	6.0	4.8	4.1
57.5°	3.8	3.8	4.4	3.8	3.8
60°	3.8	3.8	3.8	3.8	3.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.2	3.5	3.5
72.5°	3.2	3.2	2.9	3.2	2.9
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.6	1.6	1.6
82.5°	1.0	1.0	1.0	1.3	1.0
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°	3.8	3.8	3.8	3.8	3.8
65°	3.5	3.8	3.5	3.8	3.5



(END OF REPORT)