

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: P283810

Luminaire Tested: **LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 734.4 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

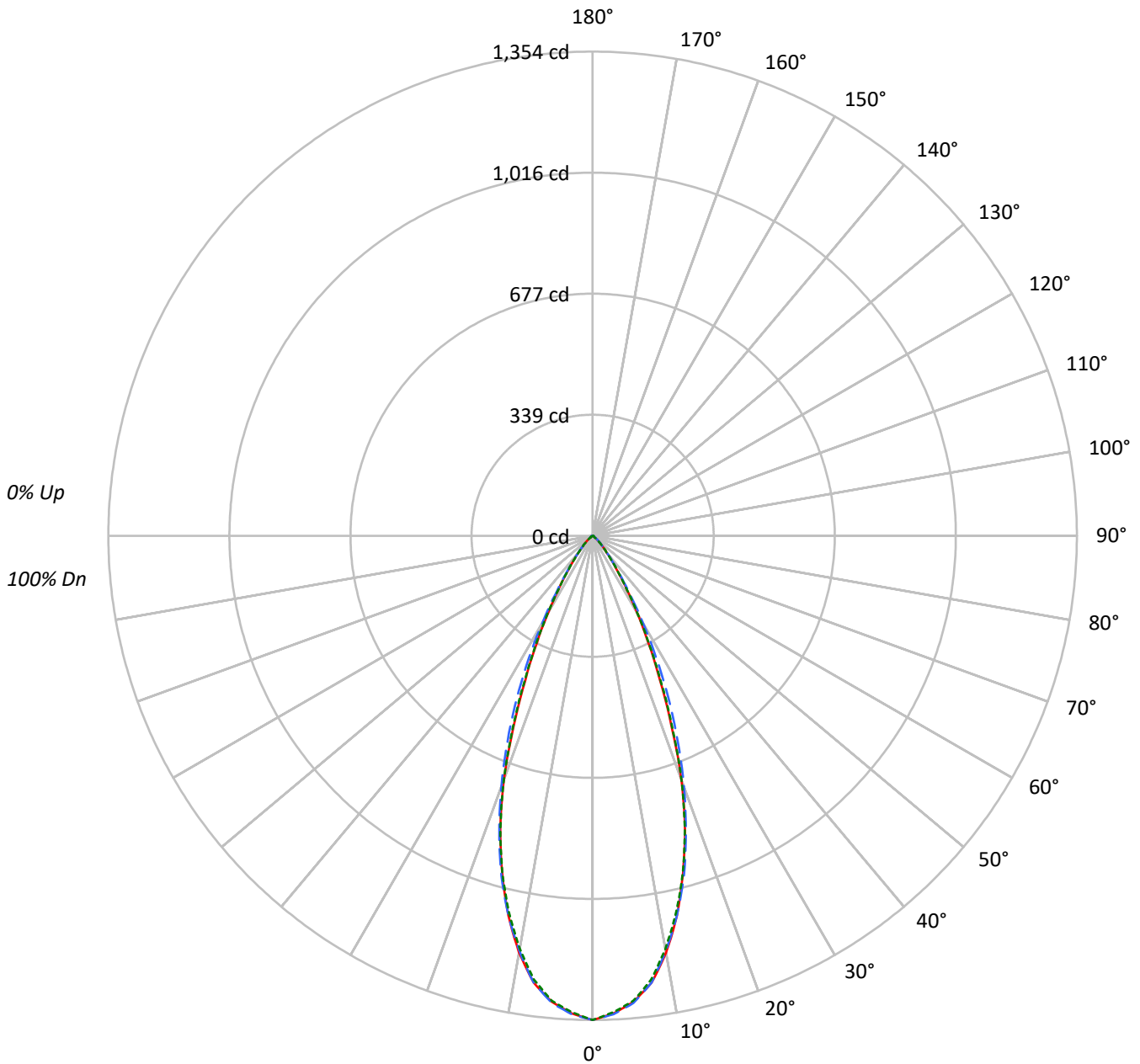
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P283810

CATALOG NUMBER: LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P283810

CATALOG NUMBER: LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MMS

**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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

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

	0°	45°	90°
0°	668012	668012	668012
5°	647980	649516	646594
10°	593102	590747	587190
15°	498865	503513	498099
20°	381483	391616	380905
25°	242242	273162	246978
30°	140883	159056	143390
35°	74502	79200	74743
40°	39286	41090	39286
45°	21978	22815	22257
50°	10285	12971	10285
55°	3699	7139	4043
60°	4243	4243	4243
65°	4553	5020	4553
70°	5626	5049	5626
75°	5337	5337	5337
80°	5682	4546	5682
85°	4529	4529	4529



TEST NUMBER: P283810

CATALOG NUMBER: LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	16.5
10°-20°	269.1	36.6
20°-30°	217.3	29.6
30°-40°	85.9	11.7
40°-50°	26.4	3.6
50°-60°	6.8	0.9
60°-70°	4.1	0.6
70°-80°	3.0	0.4
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°	607.3	82.7
0°-40°	693.2	94.4
0°-60°	726.4	98.9
0°-90°	734.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1308	1311	1312	1309	1306	121
15°	977	980	986	982	975	268
25°	445	466	502	475	454	207
35°	124	127	132	128	124	83
45°	32	32	33	32	32	26
55°	4	6	8	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283810

CATALOG NUMBER: LDA2B058035D010 EU2B05WFL558035 2LBAPINSQ1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1337.1	1337.9	1339.1	1337.5	1333.6
5°	1308.4	1310.7	1311.5	1308.8	1305.6
7.5°	1261.1	1258.3	1260.7	1256.0	1252.0
10°	1183.9	1180.4	1179.2	1172.1	1172.1
12.5°	1088.6	1087.4	1088.2	1084.7	1079.1
15°	976.7	979.5	985.8	981.9	975.2
17.5°	858.2	862.1	867.6	866.5	857.4
20°	726.6	738.1	745.9	738.5	725.5
22.5°	577.0	601.4	621.5	605.7	584.5
25°	445.0	466.3	501.8	475.0	453.7
27.5°	337.5	352.9	385.2	358.8	344.2
30°	247.3	256.8	279.2	261.9	251.7
32.5°	176.8	183.5	193.0	182.7	177.6
35°	123.7	127.2	131.5	127.6	124.1
37.5°	87.0	88.2	91.4	88.2	86.6
40°	61.0	61.4	63.8	61.8	61.0
42.5°	44.1	44.1	45.3	44.5	44.1
45°	31.5	31.9	32.7	32.3	31.9
47.5°	22.4	23.2	23.2	23.6	22.1
50°	13.4	16.5	16.9	16.5	13.4
52.5°	7.1	9.8	12.2	9.8	7.1
55°	4.3	5.9	8.3	5.9	4.7
57.5°	4.3	4.3	5.5	4.7	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.9	4.3	4.3	4.3	3.9
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.2	3.5	3.5
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	1.6	2.0	2.0
82.5°	1.2	1.2	1.2	1.2	1.2
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



Report Generated By E9808895 / USPTCWHP6082093







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







(END OF REPORT)