

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: P281618

Luminaire Tested: **LDA2B058035D010 EU2B05SP158035 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058035D010 EU2B05SP158035 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 805.1 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

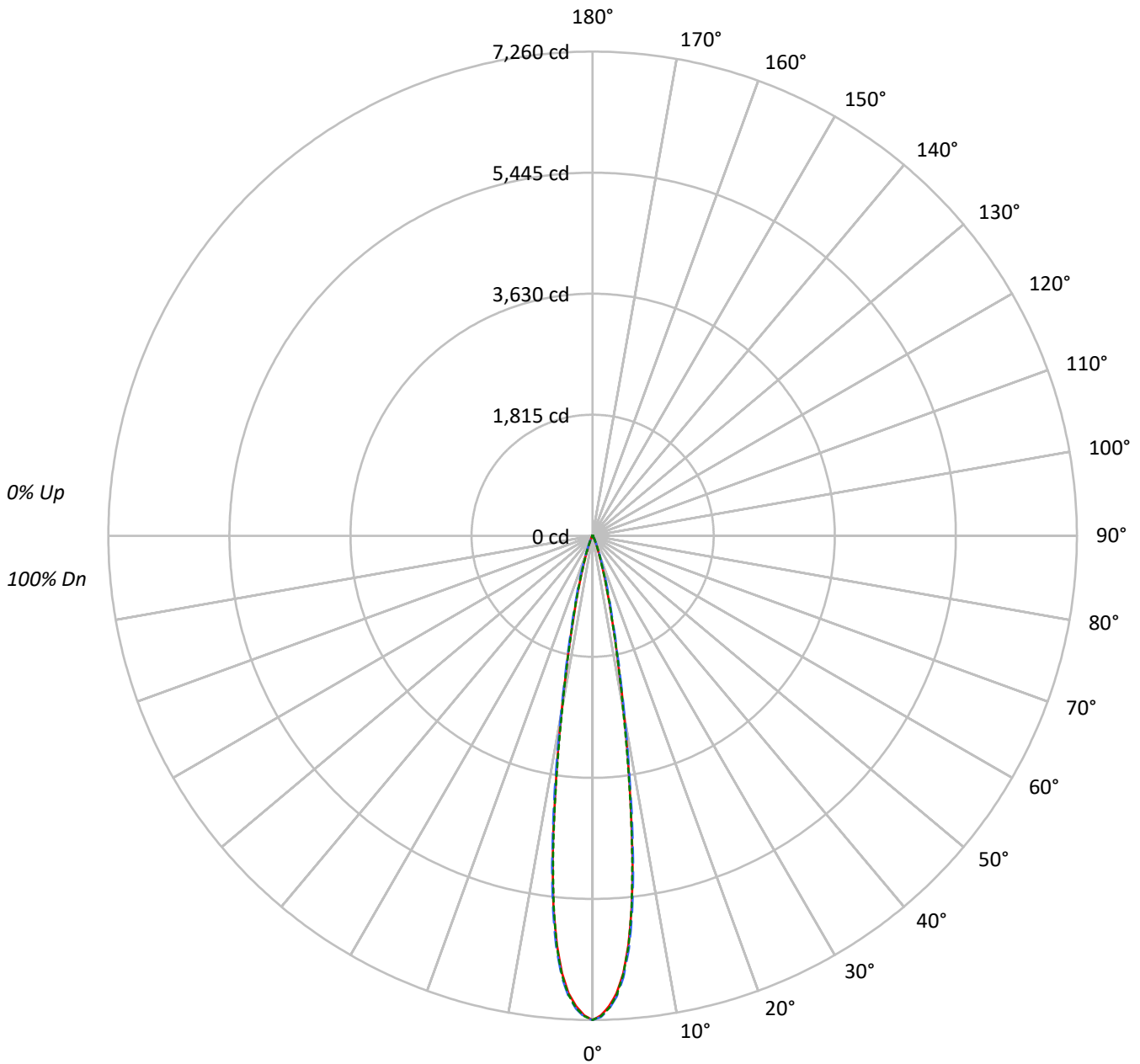
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

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

	0°	45°	90°
0°	3581807	3581807	3581807
5°	3050024	3081769	3055769
10°	1346514	1377324	1315053
15°	408561	468628	414997
20°	122226	163020	136611
25°	47632	46870	50082
30°	21192	19141	20167
35°	4336	3794	3794
40°	0	258	1159
45°	3768	3140	5652
50°	0	998	3454
55°	0	0	1548
60°	0	395	1776
65°	0	0	1051
70°	0	2596	5193
75°	0	0	0
80°	0	0	0
85°	0	2264	10189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.6	58.5
10°-20°	268.8	33.4
20°-30°	51.0	6.3
30°-40°	9.3	1.2
40°-50°	2.4	0.3
50°-60°	1.8	0.2
60°-70°	0.3	0.0
70°-80°	0.4	0.0
80°-90°	0.5	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°	790.5	98.2
0°-40°	799.7	99.3
0°-60°	803.9	99.8
0°-90°	805.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7260	7260	7260	7260	7260	
5°	6159	6199	6223	6212	6170	468
15°	800	870	918	862	812	254
25°	88	94	86	98	92	46
35°	7	9	6	8	6	10
45°	5	8	4	5	8	3
55°	0	0	0	0	2	1
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7260.0	7260.0	7260.0	7260.0	7260.0
1°	7191.3	7199.0	7215.1	7231.7	7205.7
2°	7056.8	7075.1	7098.0	7113.3	7085.0
3°	6868.3	6893.9	6918.1	6921.3	6894.8
4°	6577.2	6608.6	6634.1	6631.0	6597.8
5°	6158.6	6198.9	6222.7	6212.0	6170.2
6°	5605.4	5644.4	5674.9	5644.0	5587.9
7°	4916.3	4961.1	4993.4	4940.5	4871.8
8°	4117.7	4180.5	4212.8	4138.8	4068.3
9°	3361.3	3404.8	3437.5	3356.8	3285.0
10°	2687.8	2767.7	2749.3	2686.9	2625.0
11°	2114.0	2186.3	2189.4	2147.2	2086.7
12°	1655.1	1731.3	1750.6	1718.3	1664.5
13°	1307.8	1364.8	1396.6	1363.4	1312.3
14°	1040.9	1091.6	1132.4	1089.3	1038.2
15°	799.9	869.9	917.5	861.8	812.5
16°	636.2	694.1	750.6	687.3	647.8
17°	488.6	540.2	598.5	541.1	508.8
18°	386.7	427.6	491.7	432.5	404.2
19°	302.8	333.8	393.5	341.4	318.5
20°	232.8	266.9	310.5	275.0	260.2
22.5°	140.9	159.7	172.3	161.5	153.9
25°	87.5	94.2	86.1	98.3	92.0
26°	76.3	81.2	79.4	87.5	79.9
27°	61.0	67.3	62.4	68.6	66.4
28°	55.6	63.3	53.4	61.0	57.4
29°	39.0	42.2	38.1	40.8	40.8
30°	37.2	38.1	33.6	36.8	35.4
32.5°	29.2	27.4	22.4	23.8	22.9
35°	7.2	9.0	6.3	7.6	6.3
37.5°	10.8	9.9	11.7	11.2	10.8
40°	0.0	0.4	0.4	0.4	1.8
42.5°	8.1	4.9	4.5	3.1	5.4
45°	5.4	8.5	4.5	4.9	8.1
47.5°	0.0	0.4	0.0	0.9	0.9
50°	0.0	0.9	1.3	1.8	4.5
52.5°	0.9	5.4	2.7	4.9	7.2
55°	0.0	0.4	0.0	0.4	1.8
57.5°	1.8	0.9	1.8	1.8	8.1
60°	0.0	0.9	0.4	0.4	1.8
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.9
67.5°	0.0	0.4	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.4	0.0	0.0
80°	0.0	0.4	0.0	0.0	0.0
82.5°	0.0	0.4	0.9	1.3	0.9
85°	0.0	0.4	0.4	0.4	1.8
87.5°	0.0	0.9	1.3	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.3	1.8	0.0	3.6
72.5°	0.0	2.2	0.4	0.4	0.0



(END OF REPORT)