

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: P281450

Luminaire Tested: **LDA2B058035D010 EU2B05SP158035 2LBASQC1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058035D010 EU2B05SP158035 2LBASQC1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 805.2 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.29  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

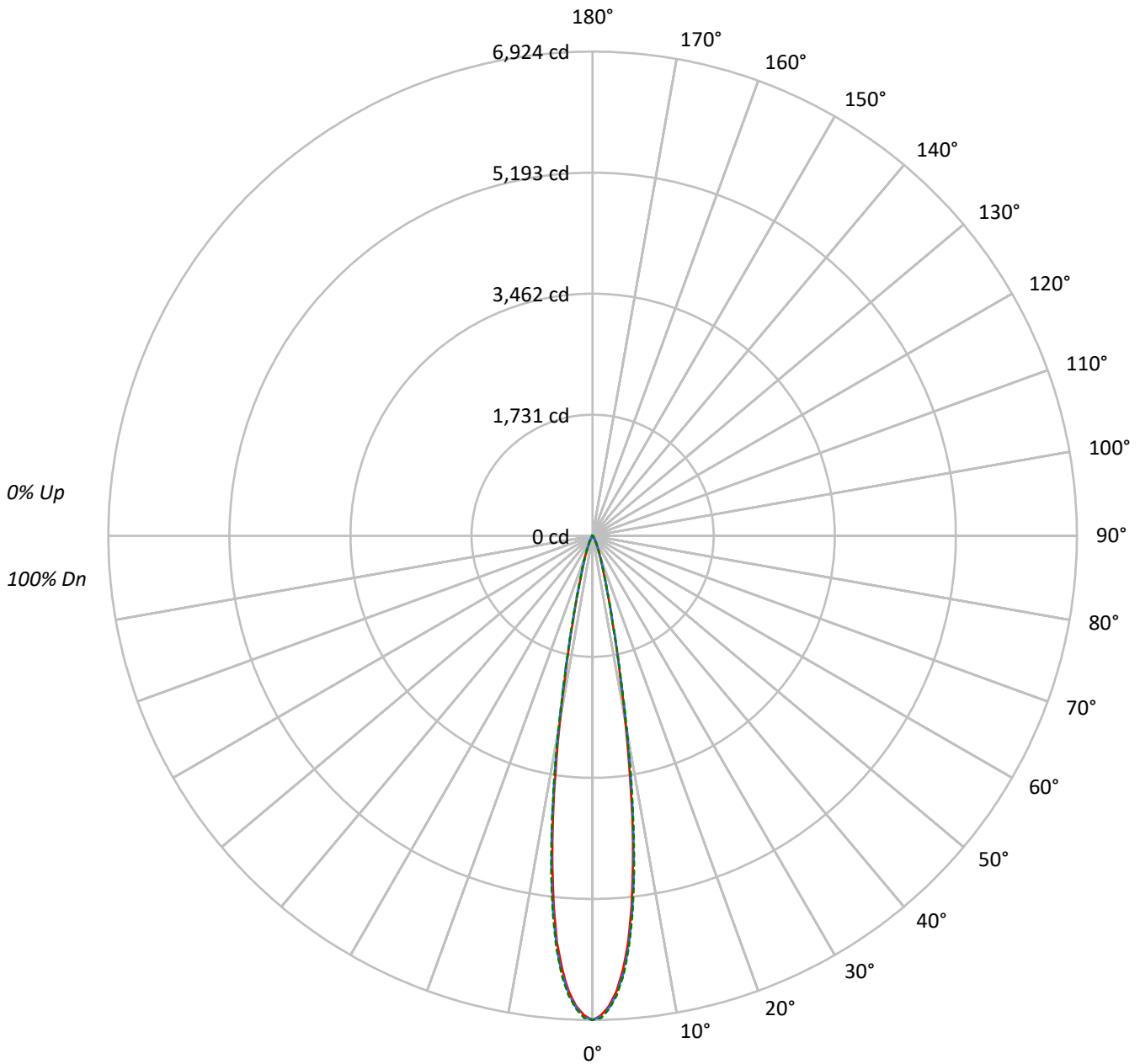
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	101	100	99	98	99	98	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	99	98	97																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	98	96	95																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	96	95	93																
5	105	100	96	94	103	99	96	93	97	95	93	96	94	92	95	93	91	90	95	93	91																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	93	91	90																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	92	90	88																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	86	90	88	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	89	87	85																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	88	85	84																

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

	0°	45°	90°
0°	3416185	3416185	3416185
5°	2891397	2921607	2934335
10°	1352075	1403275	1406030
15°	395997	401768	401564
20°	159030	159240	159450
25°	70931	78116	72618
30°	30136	41416	27459
35°	13792	19213	12889
40°	4508	7535	3993
45°	0	2721	0
50°	0	0	0
55°	1376	688	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2273	0	0
85°	4529	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	457.6	56.8
10°-20°	259.4	32.2
20°-30°	67.7	8.4
30°-40°	17.5	2.2
40°-50°	1.7	0.2
50°-60°	0.6	0.1
60°-70°	0.1	0.0
70°-80°	0.6	0.1
80°-90°	0.1	0.0
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°	784.7	97.4
0°-40°	802.2	99.6
0°-60°	804.4	99.9
0°-90°	805.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	805.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6924	6924	6924	6924	6924	
5°	5838	5890	5899	5862	5925	452
15°	775	786	787	778	786	255
25°	130	141	144	137	133	65
35°	23	24	32	22	21	16
45°	0	2	4	0	0	1
55°	2	2	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	2
85°	1	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6924.3	6924.3	6924.3	6924.3	6924.3
1°	6859.3	6886.5	6878.4	6868.7	6895.9
2°	6727.1	6753.6	6751.2	6738.4	6770.3
3°	6523.4	6560.3	6560.3	6541.3	6580.9
4°	6219.7	6276.1	6281.5	6254.7	6304.1
5°	5838.3	5890.4	5899.3	5862.0	5925.0
6°	5321.5	5392.7	5412.9	5369.7	5434.3
7°	4727.8	4802.4	4833.1	4784.9	4857.2
8°	4087.4	4141.0	4178.0	4122.7	4196.2
9°	3370.8	3448.1	3482.0	3428.3	3499.8
10°	2698.9	2770.0	2801.1	2788.3	2806.6
11°	2096.2	2159.2	2180.2	2162.7	2171.2
12°	1641.2	1666.5	1680.1	1668.5	1674.3
13°	1246.2	1280.0	1286.2	1281.2	1283.9
14°	973.2	989.6	996.6	994.2	995.4
15°	775.3	785.8	786.6	777.7	786.2
16°	624.5	632.6	636.1	626.8	638.1
17°	511.7	518.3	522.2	512.9	517.5
18°	421.1	426.2	431.6	423.4	430.4
19°	353.4	356.6	356.9	354.6	356.6
20°	302.9	301.3	303.3	299.0	303.7
22.5°	199.5	203.4	208.0	203.0	204.9
25°	130.3	141.1	143.5	136.9	133.4
26°	107.3	121.3	127.5	117.0	105.8
27°	89.0	99.2	107.3	93.3	84.4
28°	78.2	86.7	94.9	81.7	71.2
29°	65.3	73.9	87.9	72.7	66.1
30°	52.9	59.1	72.7	55.2	48.2
32.5°	29.9	35.0	47.0	32.7	26.8
35°	22.9	24.5	31.9	21.8	21.4
37.5°	19.8	17.9	24.9	17.9	14.4
40°	7.0	10.5	11.7	7.8	6.2
42.5°	3.1	3.1	5.1	1.6	1.6
45°	0.0	1.6	3.9	0.4	0.0
47.5°	0.0	0.0	0.8	0.0	0.0
50°	0.0	0.8	0.0	0.0	0.0
52.5°	0.8	0.0	0.0	0.0	0.0
55°	1.6	1.9	0.8	0.4	0.0
57.5°	2.3	1.9	0.8	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.8	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	0.4	0.0	0.0	0.0
77.5°	3.9	0.8	1.2	0.8	1.6
80°	0.8	0.0	0.0	0.0	0.0
82.5°	1.6	0.0	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.4	0.0	0.4	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	0.0	0.0	0.0	0.0
72.5°	1.6	1.2	0.0	0.0	1.6



(END OF REPORT)