

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: P281557

Luminaire Tested: **LDA2B159050D010 EU2B15SP159050 2LBASQC1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281557  
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: LDA2B159050D010 EU2B15SP159050 2LBASQC1MB  
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ Cast Trim, MB  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1264.8 lumens  
Efficiency: N/A  
Efficacy: 89.7 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

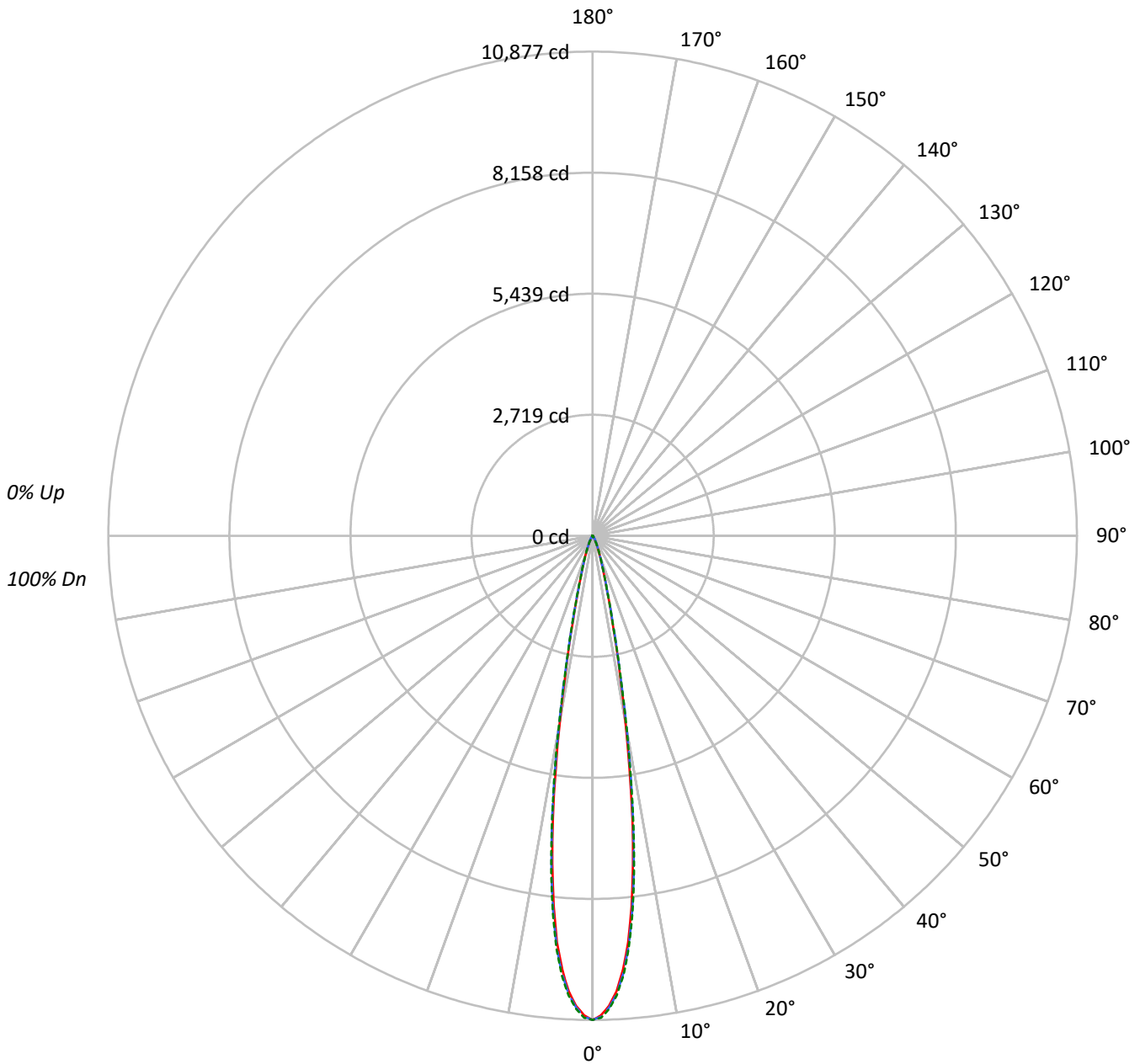
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	97	96	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	95	94	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	93	92	94																
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	91	90	92																
5	105	100	96	94	103	99	96	93	98	95	93	96	94	92	95	93	91	90	89	87	89																
6	103	97	94	91	101	97	94	91	96	93	91	94	92	90	93	91	90	89	88	87	89																
7	100	95	92	89	100	95	91	89	94	91	89	93	90	88	92	90	88	87	86	85	87																
8	99	93	90	88	98	93	90	87	92	89	87	91	89	87	90	88	87	86	85	84	86																
9	97	91	88	86	96	91	88	86	90	88	86	90	87	85	89	87	85	84	83	82	84																
10	95	90	87	84	94	89	86	84	89	86	84	88	86	84	88	85	84	83	82	81	83																

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

	0°	45°	90°
0°	5366099	5366099	5366099
5°	4541756	4589250	4609208
10°	2123824	2204280	2208538
15°	622062	631102	630796
20°	249807	250122	250437
25°	111377	122700	114044
30°	47341	65058	43125
35°	21682	30174	20237
40°	7084	11786	6312
45°	0	4256	0
50°	0	0	0
55°	2064	1032	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3409	0	0
85°	6793	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	718.8	56.8
10°-20°	407.4	32.2
20°-30°	106.4	8.4
30°-40°	27.4	2.2
40°-50°	2.7	0.2
50°-60°	0.9	0.1
60°-70°	0.1	0.0
70°-80°	0.9	0.1
80°-90°	0.2	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°	1232.6	97.5
0°-40°	1260.0	99.6
0°-60°	1263.6	99.9
0°-90°	1264.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10877	10877	10877	10877	10877	
5°	9171	9253	9267	9208	9307	710
15°	1218	1234	1236	1222	1235	400
25°	205	222	225	215	210	102
35°	36	38	50	34	34	25
45°	0	2	6	1	0	2
55°	2	3	1	1	0	2
65°	0	0	0	0	0	1
75°	0	1	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°	10876.6	10876.6	10876.6	10876.6	10876.6
1°	10774.6	10817.4	10804.5	10789.3	10832.0
2°	10566.9	10608.5	10604.8	10584.7	10634.7
3°	10246.9	10304.9	10304.9	10275.0	10337.3
4°	9769.9	9858.4	9867.0	9824.9	9902.4
5°	9170.7	9252.6	9266.6	9208.0	9306.9
6°	8359.0	8470.8	8502.5	8434.7	8536.1
7°	7426.4	7543.6	7591.9	7516.1	7629.7
8°	6420.4	6504.7	6562.7	6476.0	6591.4
9°	5294.8	5416.3	5469.4	5385.2	5497.5
10°	4239.4	4351.1	4400.0	4379.8	4408.5
11°	3292.7	3391.6	3424.6	3397.1	3410.5
12°	2578.1	2617.8	2639.1	2620.8	2630.0
13°	1957.5	2010.7	2020.4	2012.5	2016.8
14°	1528.8	1554.4	1565.4	1561.7	1563.6
15°	1217.9	1234.4	1235.6	1221.5	1235.0
16°	980.9	993.7	999.2	984.6	1002.3
17°	803.8	814.2	820.3	805.6	812.9
18°	661.5	669.4	678.0	665.1	676.1
19°	555.2	560.1	560.7	557.0	560.1
20°	475.8	473.3	476.4	469.7	477.0
22.5°	313.3	319.4	326.8	318.8	321.9
25°	204.6	221.7	225.4	215.0	209.5
26°	168.6	190.6	200.3	183.8	166.1
27°	139.9	155.7	168.6	146.6	132.5
28°	122.8	136.2	149.0	128.3	111.8
29°	102.6	116.0	138.0	114.2	103.8
30°	83.1	92.8	114.2	86.7	75.7
32.5°	47.0	55.0	73.9	51.3	42.1
35°	36.0	38.5	50.1	34.2	33.6
37.5°	31.1	28.1	39.1	28.1	22.6
40°	11.0	16.5	18.3	12.2	9.8
42.5°	4.9	4.9	7.9	2.4	2.4
45°	0.0	2.4	6.1	0.6	0.0
47.5°	0.0	0.0	1.2	0.0	0.0
50°	0.0	1.2	0.0	0.0	0.0
52.5°	1.2	0.0	0.0	0.0	0.0
55°	2.4	3.1	1.2	0.6	0.0
57.5°	3.7	3.1	1.2	1.2	1.2
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°	1.2	0.6	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.6	0.0	0.0	0.0
77.5°	6.1	1.2	1.8	1.2	2.4
80°	1.2	0.0	0.0	0.0	0.0
82.5°	2.4	0.0	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0	0.0
87.5°	0.0	0.6	0.0	0.6	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°	2.4	1.8	0.0	0.0	2.4



(END OF REPORT)