

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: P281567

Luminaire Tested: **LDA2B15D2WD010 EU2B15SP15D2W 2LBASQC1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281567  
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: LDA2B15D2WD010 EU2B15SP15D2W 2LBASQC1MMS  
Description: PORTFOLIO 2IN ADJ 1500 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: 1077.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 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

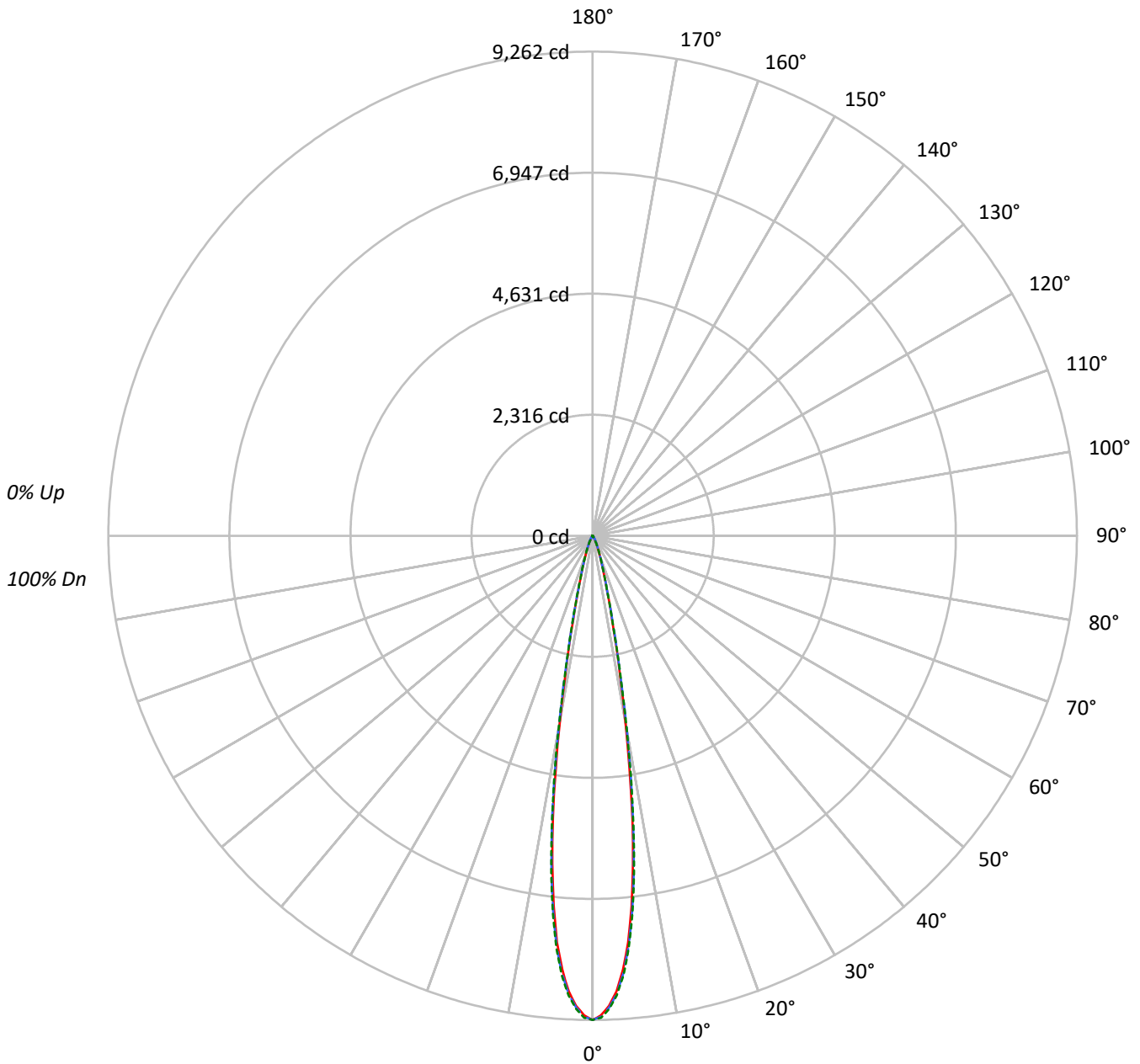
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	4569320	4569320	4569320
5°	3867379	3907840	3924827
10°	1808461	1876994	1880651
15°	529664	537377	537121
20°	212687	213002	213265
25°	94828	104464	97115
30°	40277	55430	36745
35°	18490	25657	17225
40°	6054	10047	5346
45°	0	3628	0
50°	0	0	0
55°	1806	860	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	2841	0	0
85°	5661	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.1	56.8
10°-20°	346.9	32.2
20°-30°	90.6	8.4
30°-40°	23.4	2.2
40°-50°	2.3	0.2
50°-60°	0.7	0.1
60°-70°	0.1	0.0
70°-80°	0.8	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°	1049.6	97.5
0°-40°	1072.9	99.6
0°-60°	1076.0	99.9
0°-90°	1077.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9262	9262	9262	9262	9262	
5°	7809	7879	7891	7841	7925	604
15°	1037	1051	1052	1040	1052	340
25°	174	189	192	183	178	87
35°	31	33	43	29	29	21
45°	0	2	5	0	0	2
55°	2	3	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°	9261.6	9261.6	9261.6	9261.6	9261.6
1°	9174.8	9211.2	9200.3	9187.2	9223.7
2°	8997.9	9033.3	9030.2	9013.0	9055.7
3°	8725.4	8774.8	8774.8	8749.3	8802.4
4°	8319.2	8394.6	8401.9	8366.0	8432.1
5°	7809.0	7878.7	7890.7	7840.8	7925.0
6°	7117.8	7213.0	7240.1	7182.3	7268.7
7°	6323.7	6423.5	6464.6	6400.1	6496.9
8°	5467.1	5538.9	5588.3	5514.4	5612.7
9°	4508.6	4612.1	4657.3	4585.6	4681.3
10°	3609.9	3705.1	3746.7	3729.5	3754.0
11°	2803.8	2888.0	2916.1	2892.7	2904.1
12°	2195.3	2229.1	2247.3	2231.7	2239.5
13°	1666.9	1712.1	1720.4	1713.7	1717.3
14°	1301.8	1323.6	1333.0	1329.8	1331.4
15°	1037.0	1051.1	1052.1	1040.2	1051.6
16°	835.3	846.2	850.9	838.4	853.5
17°	684.4	693.3	698.5	686.0	692.2
18°	563.2	570.0	577.3	566.4	575.7
19°	472.8	476.9	477.4	474.3	476.9
20°	405.1	403.1	405.7	399.9	406.2
22.5°	266.8	272.0	278.2	271.5	274.1
25°	174.2	188.8	191.9	183.1	178.4
26°	143.5	162.3	170.6	156.5	141.5
27°	119.1	132.6	143.5	124.8	112.9
28°	104.5	116.0	126.9	109.2	95.2
29°	87.4	98.8	117.5	97.3	88.4
30°	70.7	79.1	97.3	73.9	64.5
32.5°	40.0	46.8	62.9	43.7	35.9
35°	30.7	32.8	42.6	29.1	28.6
37.5°	26.5	23.9	33.3	23.9	19.2
40°	9.4	14.0	15.6	10.4	8.3
42.5°	4.2	4.2	6.8	2.1	2.1
45°	0.0	2.1	5.2	0.5	0.0
47.5°	0.0	0.0	1.0	0.0	0.0
50°	0.0	1.0	0.0	0.0	0.0
52.5°	1.0	0.0	0.0	0.0	0.0
55°	2.1	2.6	1.0	0.5	0.0
57.5°	3.1	2.6	1.0	1.0	1.0
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°	1.0	0.5	0.0	0.0	0.0



TEST NUMBER: P281567

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.5	0.0	0.0	0.0
77.5°	5.2	1.0	1.6	1.0	2.1
80°	1.0	0.0	0.0	0.0	0.0
82.5°	2.1	0.0	0.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.0	0.5	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°	2.1	1.6	0.0	0.0	2.1



(END OF REPORT)