

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: P281528

Luminaire Tested: **LDA2B158027D010 EU2B15SP158027 2LBASQC1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281528  
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: LDA2B158027D010 EU2B15SP158027 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: 1412.4 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

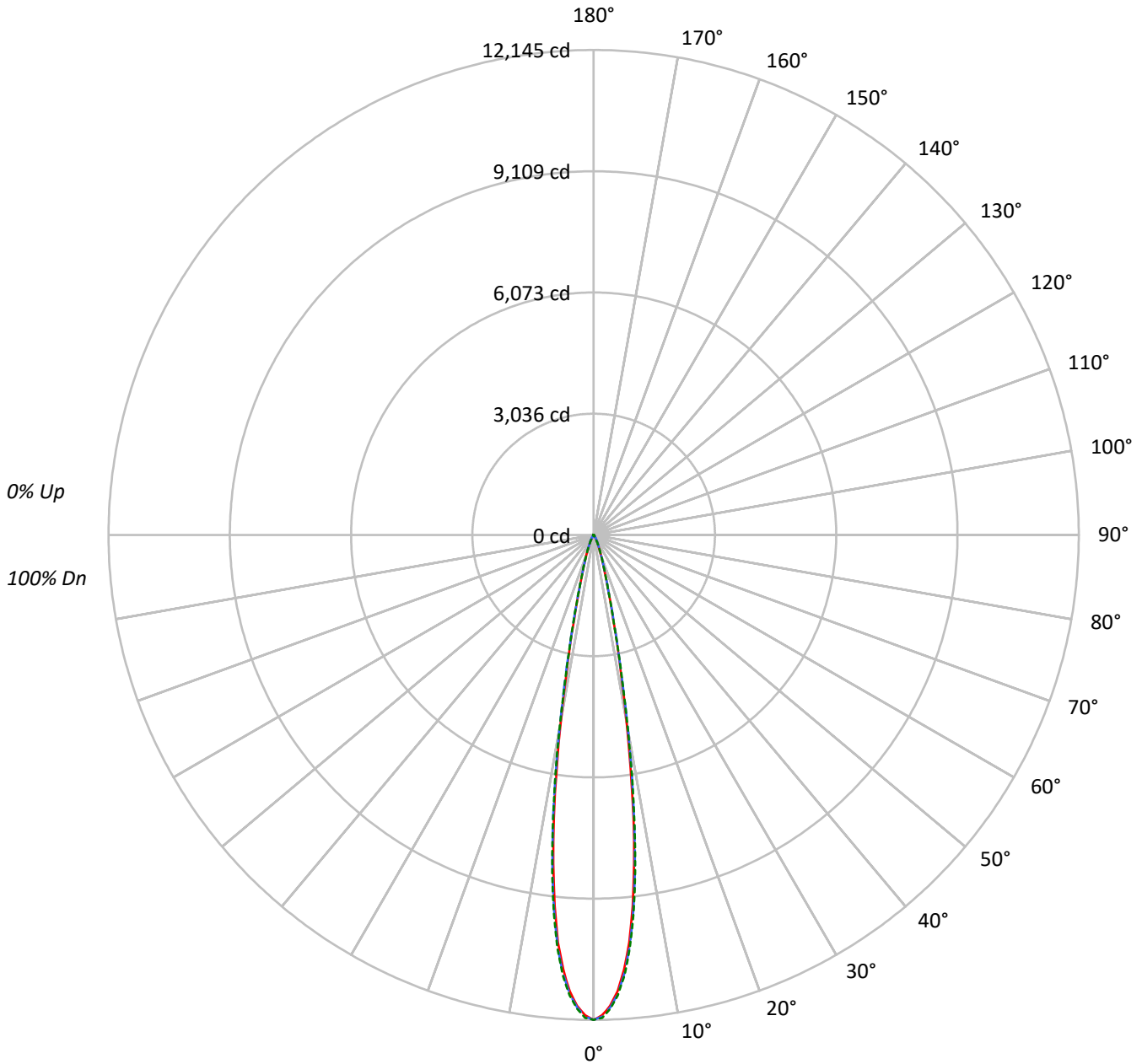
Input Watts (W): 14.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	97	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°	5992076	5992076	5992076
5°	5071570	5124611	5146897
10°	2371555	2461429	2466188
15°	694590	704703	704346
20°	278946	279313	279681
25°	124387	137017	127327
30°	52867	72635	48195
35°	24212	33668	22586
40°	7922	13203	7020
45°	0	4744	0
50°	0	0	0
55°	2322	1204	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	3978	0	0
85°	7925	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.7	56.8
10°-20°	454.9	32.2
20°-30°	118.8	8.4
30°-40°	30.6	2.2
40°-50°	3.0	0.2
50°-60°	1.0	0.1
60°-70°	0.2	0.0
70°-80°	1.0	0.1
80°-90°	0.3	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°	1376.4	97.5
0°-40°	1407.0	99.6
0°-60°	1411.0	99.9
0°-90°	1412.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12145	12145	12145	12145	12145	
5°	10240	10332	10348	10282	10393	792
15°	1360	1378	1380	1364	1379	446
25°	228	248	252	240	234	114
35°	40	43	56	38	38	28
45°	0	3	7	1	0	2
55°	3	3	1	1	0	2
65°	0	0	0	0	0	1
75°	0	1	0	0	0	3
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°	12145.4	12145.4	12145.4	12145.4	12145.4
1°	12031.5	12079.2	12064.9	12047.9	12095.6
2°	11799.6	11846.0	11841.9	11819.4	11875.3
3°	11442.2	11507.0	11507.0	11473.6	11543.2
4°	10909.6	11008.5	11018.0	10971.0	11057.6
5°	10240.5	10331.9	10347.6	10282.1	10392.6
6°	9334.1	9458.9	9494.4	9418.7	9531.9
7°	8292.7	8423.6	8477.5	8392.9	8519.8
8°	7169.4	7263.5	7328.3	7231.4	7360.4
9°	5912.4	6048.1	6107.5	6013.4	6138.9
10°	4733.9	4858.7	4913.3	4890.8	4922.8
11°	3676.8	3787.3	3824.1	3793.4	3808.4
12°	2878.8	2923.1	2947.0	2926.5	2936.8
13°	2185.9	2245.2	2256.1	2247.3	2252.0
14°	1707.1	1735.7	1748.0	1743.9	1746.0
15°	1359.9	1378.4	1379.7	1364.0	1379.0
16°	1095.3	1109.6	1115.8	1099.4	1119.2
17°	897.5	909.1	916.0	899.6	907.8
18°	738.6	747.5	757.0	742.7	755.0
19°	620.0	625.4	626.1	622.0	625.4
20°	531.3	528.6	532.0	524.5	532.7
22.5°	349.9	356.7	364.9	356.0	359.4
25°	228.5	247.6	251.7	240.1	233.9
26°	188.2	212.8	223.7	205.3	185.5
27°	156.2	173.9	188.2	163.7	148.0
28°	137.1	152.1	166.4	143.2	124.8
29°	114.6	129.6	154.1	127.5	115.9
30°	92.8	103.7	127.5	96.8	84.6
32.5°	52.5	61.4	82.5	57.3	47.1
35°	40.2	43.0	55.9	38.2	37.5
37.5°	34.8	31.4	43.6	31.4	25.2
40°	12.3	18.4	20.5	13.6	10.9
42.5°	5.5	5.5	8.9	2.7	2.7
45°	0.0	2.7	6.8	0.7	0.0
47.5°	0.0	0.0	1.4	0.0	0.0
50°	0.0	1.4	0.0	0.0	0.0
52.5°	1.4	0.0	0.0	0.0	0.0
55°	2.7	3.4	1.4	0.7	0.0
57.5°	4.1	3.4	1.4	1.4	1.4
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°	1.4	0.7	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.7	0.0	0.0	0.0
77.5°	6.8	1.4	2.0	1.4	2.7
80°	1.4	0.0	0.0	0.0	0.0
82.5°	2.7	0.0	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.7	0.0	0.7	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°	2.7	2.0	0.0	0.0	2.7



(END OF REPORT)