

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: P282634

Luminaire Tested: **LDA2B058050D010 EU2B05NFL258050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B058050D010 EU2B05NFL258050 2LBALPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC  
AND 2in Adj SQ Pinhole w-lens, MMS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 705.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

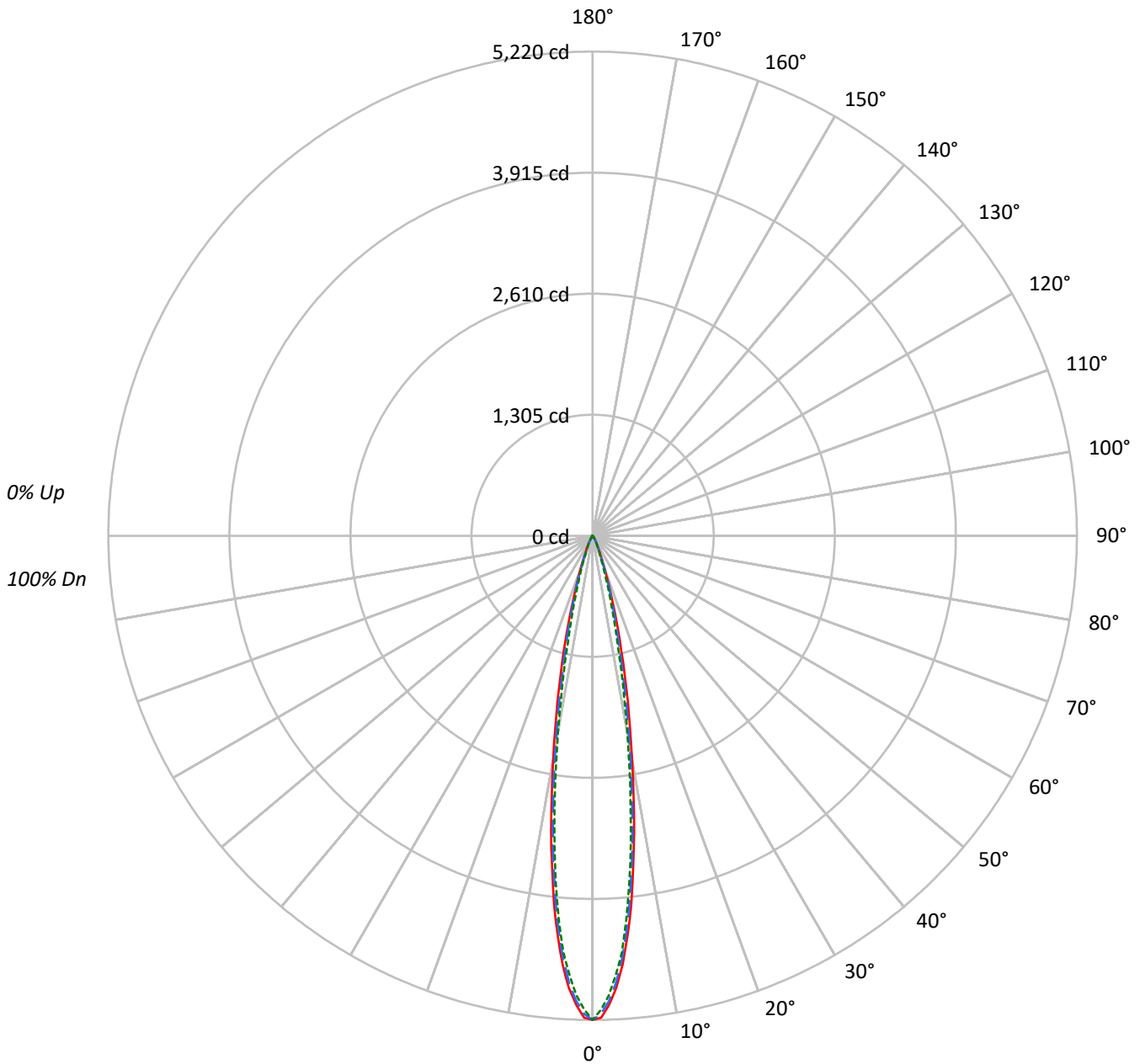
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

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

	0°	45°	90°
0°	2575151	2575151	2575151
5°	2142782	2103509	2061067
10°	1227383	1151736	1074887
15°	545906	484819	406314
20°	198039	186226	147532
25°	76048	70985	61132
30°	32814	30478	27060
35°	15539	15539	12829
40°	7793	8050	6505
45°	4465	4186	3907
50°	3070	2763	2763
55°	2408	1720	2064
60°	1973	1184	1579
65°	1401	934	1401
70°	1154	577	1154
75°	762	762	762
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	48.1
10°-20°	274.7	38.9
20°-30°	66.2	9.4
30°-40°	16.9	2.4
40°-50°	5.0	0.7
50°-60°	2.1	0.3
60°-70°	1.0	0.1
70°-80°	0.3	0.0
80°-90°	0.0	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°	680.4	96.4
0°-40°	697.3	98.8
0°-60°	704.5	99.8
0°-90°	705.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	705.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5220	5220	5220	5220	5220	
5°	4327	4287	4247	4210	4162	350
15°	1069	1043	949	855	796	305
25°	140	140	130	118	112	72
35°	26	26	26	23	21	18
45°	6	6	6	6	6	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5219.6	5219.6	5219.6	5219.6	5219.6
1°	5196.2	5160.0	5155.6	5178.1	5111.7
2°	5063.4	5037.6	5022.7	5036.0	4960.7
3°	4881.0	4856.1	4829.1	4829.5	4745.4
4°	4632.6	4612.9	4567.4	4553.7	4505.0
5°	4326.7	4286.9	4247.4	4210.4	4161.7
6°	3988.6	3937.0	3880.7	3825.5	3775.6
7°	3590.8	3556.6	3482.1	3406.9	3364.6
8°	3216.8	3161.7	3074.7	2980.5	2944.7
9°	2814.7	2775.2	2675.4	2565.9	2530.1
10°	2450.0	2408.9	2299.0	2177.0	2145.6
11°	2107.8	2069.2	1954.8	1826.8	1793.4
12°	1818.4	1763.6	1632.4	1521.3	1488.7
13°	1530.1	1492.7	1368.3	1258.4	1195.2
14°	1285.0	1254.0	1141.3	1044.6	977.8
15°	1068.8	1043.4	949.2	855.0	795.5
16°	876.8	861.1	786.6	695.6	646.9
17°	711.3	696.8	649.3	565.6	524.5
18°	574.5	572.4	533.0	460.5	423.9
19°	472.6	471.8	435.6	374.8	344.6
20°	377.2	382.4	354.7	301.5	281.0
21°	307.6	310.4	288.2	248.0	229.5
22°	250.4	252.4	237.9	204.9	194.8
23°	205.3	206.5	194.4	169.9	161.0
24°	169.1	169.9	159.0	141.7	134.1
25°	139.7	140.5	130.4	118.4	112.3
26°	115.9	116.7	107.9	99.4	93.4
27°	96.2	97.8	89.0	83.7	77.3
28°	82.1	82.5	74.5	71.3	65.2
29°	67.2	69.6	62.8	60.0	55.6
30°	57.6	58.8	53.5	51.5	47.5
32.5°	38.2	39.0	36.6	35.0	31.8
35°	25.8	26.2	25.8	23.3	21.3
37.5°	17.7	17.7	18.1	15.3	14.5
40°	12.1	12.1	12.5	10.5	10.1
42.5°	8.9	8.9	8.5	7.2	7.2
45°	6.4	6.4	6.0	5.6	5.6
47.5°	5.2	4.8	4.4	4.4	4.4
50°	4.0	4.0	3.6	3.2	3.6
52.5°	3.2	3.2	2.8	2.8	2.8
55°	2.8	2.4	2.0	2.0	2.4
57.5°	2.0	2.0	1.6	1.6	2.0
60°	2.0	1.6	1.2	1.6	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	1.2	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.4	0.4	0.8
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.6	1.2	1.2	1.2	1.2
65°	1.2	1.2	0.8	0.8	1.2



(END OF REPORT)