

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: P281479

Luminaire Tested: **LDA2B059730D010 EU2B05SP159730 2LBASQC1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P281479  
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: LDA2B059730D010 EU2B05SP159730 2LBASQC1MB  
Description: PORTFOLIO 2IN ADJ 500 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: 589.6 lumens  
Efficiency: N/A  
Efficacy: 84.2 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

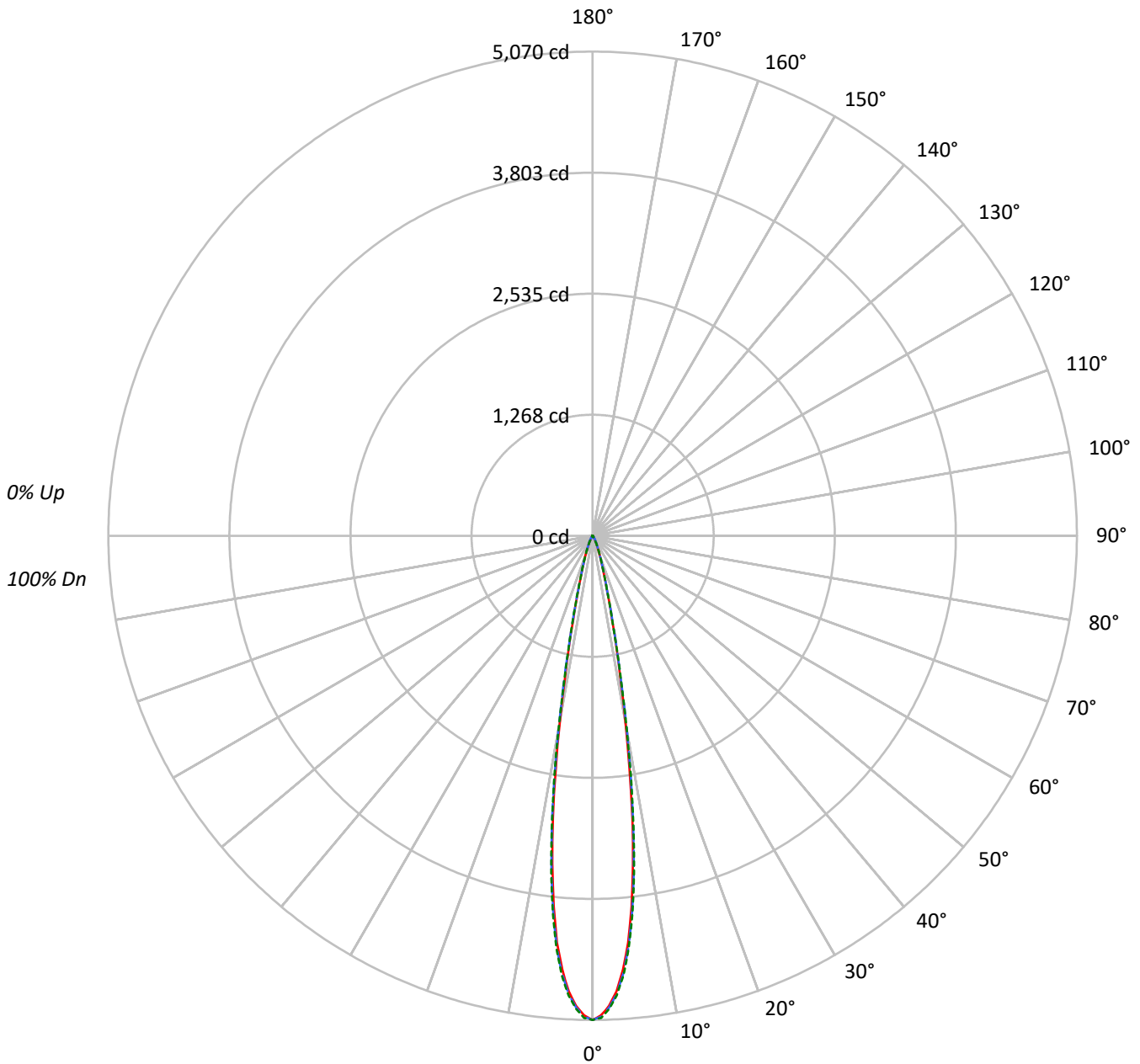
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	99	98																
2	113	109	107	105	111	108	105	103	105	103	101	102	100	99	99	98	97	96	96	97	96																
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	96	95	94																
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°	2501492	2501492	2501492
5°	2117178	2139365	2148626
10°	990022	1027545	1029549
15°	289962	294201	294048
20°	116450	116608	116765
25°	51932	57213	53184
30°	22047	30307	20110
35°	10118	14033	9456
40°	3285	5474	2963
45°	0	1954	0
50°	0	0	0
55°	946	516	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	1705	0	0
85°	3396	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.1	56.8
10°-20°	189.9	32.2
20°-30°	49.6	8.4
30°-40°	12.8	2.2
40°-50°	1.3	0.2
50°-60°	0.4	0.1
60°-70°	0.1	0.0
70°-80°	0.4	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°	574.6	97.5
0°-40°	587.4	99.6
0°-60°	589.0	99.9
0°-90°	589.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5070	5070	5070	5070	5070	
5°	4275	4313	4320	4292	4338	331
15°	568	575	576	569	576	186
25°	95	103	105	100	98	47
35°	17	18	23	16	16	11
45°	0	1	3	0	0	1
55°	1	1	1	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	1
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°	5070.3	5070.3	5070.3	5070.3	5070.3
1°	5022.7	5042.7	5036.7	5029.6	5049.5
2°	4925.9	4945.3	4943.6	4934.2	4957.5
3°	4776.7	4803.8	4803.8	4789.8	4818.9
4°	4554.4	4595.6	4599.6	4580.0	4616.1
5°	4275.0	4313.2	4319.8	4292.4	4338.5
6°	3896.7	3948.8	3963.6	3932.0	3979.2
7°	3461.9	3516.6	3539.1	3503.7	3556.7
8°	2993.0	3032.3	3059.3	3018.9	3072.7
9°	2468.2	2524.9	2549.7	2510.4	2562.8
10°	1976.2	2028.3	2051.1	2041.7	2055.1
11°	1534.9	1581.0	1596.4	1583.6	1589.9
12°	1201.8	1220.3	1230.3	1221.7	1226.0
13°	912.5	937.3	941.8	938.1	940.1
14°	712.7	724.6	729.7	728.0	728.9
15°	567.7	575.4	576.0	569.4	575.7
16°	457.3	463.2	465.8	459.0	467.2
17°	374.7	379.5	382.4	375.5	379.0
18°	308.4	312.1	316.0	310.1	315.2
19°	258.8	261.1	261.4	259.7	261.1
20°	221.8	220.7	222.1	218.9	222.4
22.5°	146.1	148.9	152.3	148.6	150.0
25°	95.4	103.4	105.1	100.2	97.7
26°	78.6	88.8	93.4	85.7	77.4
27°	65.2	72.6	78.6	68.3	61.8
28°	57.2	63.5	69.5	59.8	52.1
29°	47.8	54.1	64.3	53.2	48.4
30°	38.7	43.3	53.2	40.4	35.3
32.5°	21.9	25.6	34.5	23.9	19.6
35°	16.8	17.9	23.3	15.9	15.7
37.5°	14.5	13.1	18.2	13.1	10.5
40°	5.1	7.7	8.5	5.7	4.6
42.5°	2.3	2.3	3.7	1.1	1.1
45°	0.0	1.1	2.8	0.3	0.0
47.5°	0.0	0.0	0.6	0.0	0.0
50°	0.0	0.6	0.0	0.0	0.0
52.5°	0.6	0.0	0.0	0.0	0.0
55°	1.1	1.4	0.6	0.3	0.0
57.5°	1.7	1.4	0.6	0.6	0.6
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°	0.6	0.3	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.3	0.0	0.0	0.0
77.5°	2.8	0.6	0.9	0.6	1.1
80°	0.6	0.0	0.0	0.0	0.0
82.5°	1.1	0.0	0.0	0.0	0.0
85°	0.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.3	0.0	0.3	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°	1.1	0.9	0.0	0.0	1.1



(END OF REPORT)