

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: P283852

Luminaire Tested: **LDA2B059040D010 EU2B05WFL559040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P283852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LDA2B059040D010 EU2B05WFL559040 2LBAPINSQ1MMS  
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND  
2in Adj SQ PinHole, MMS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 621.2 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

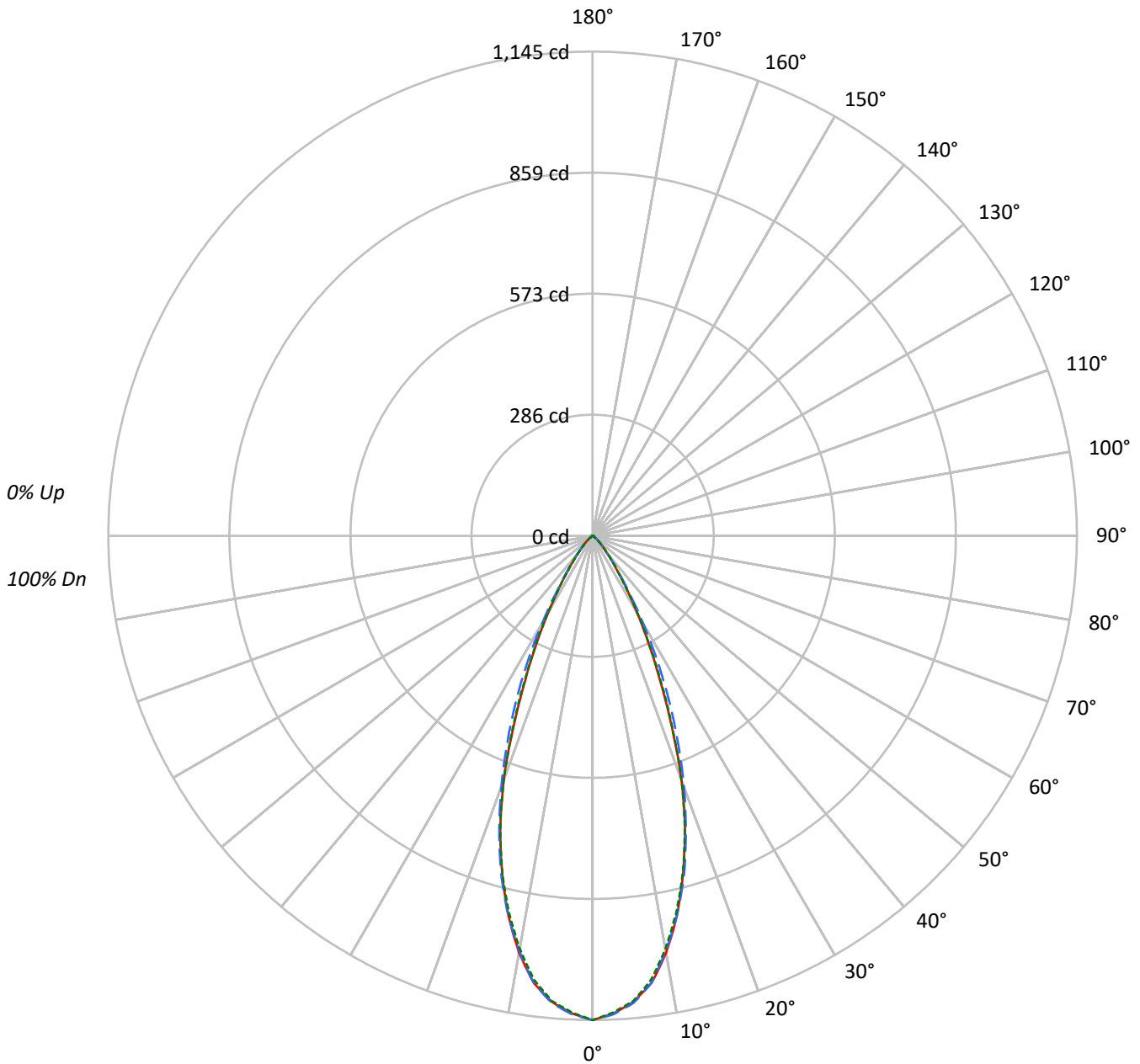
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

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

	0°	45°	90°
0°	565047	565047	565047
5°	548040	549377	546901
10°	501674	499670	496664
15°	421944	425876	421280
20°	322680	331238	322155
25°	204899	231028	208927
30°	119178	134560	121286
35°	62999	67034	63180
40°	33232	34778	33232
45°	18559	19257	18838
50°	8673	10976	8673
55°	3183	6021	3441
60°	3651	3651	3651
65°	3852	4319	3852
70°	4760	4327	4760
75°	4384	4384	4384
80°	4830	3694	4830
85°	3962	3962	3962



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.2	16.5
10°-20°	227.6	36.6
20°-30°	183.8	29.6
30°-40°	72.7	11.7
40°-50°	22.3	3.6
50°-60°	5.8	0.9
60°-70°	3.5	0.6
70°-80°	2.5	0.4
80°-90°	0.8	0.1
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°	513.7	82.7
0°-40°	586.3	94.4
0°-60°	614.4	98.9
0°-90°	621.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1107	1109	1109	1107	1104	102
15°	826	828	834	830	825	227
25°	376	394	424	402	384	175
35°	105	108	111	108	105	70
45°	27	27	28	27	27	22
55°	4	5	7	5	4	5
65°	3	4	4	4	3	3
75°	2	2	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1145.3	1145.3	1145.3	1145.3	1145.3
2.5°	1130.9	1131.6	1132.6	1131.3	1127.9
5°	1106.6	1108.6	1109.3	1107.0	1104.3
7.5°	1066.7	1064.3	1066.3	1062.3	1059.0
10°	1001.4	998.4	997.4	991.4	991.4
12.5°	920.7	919.7	920.4	917.4	912.8
15°	826.1	828.5	833.8	830.5	824.8
17.5°	725.9	729.2	733.9	732.9	725.2
20°	614.6	624.3	630.9	624.6	613.6
22.5°	488.0	508.7	525.7	512.3	494.4
25°	376.4	394.4	424.4	401.7	383.8
27.5°	285.5	298.5	325.8	303.5	291.1
30°	209.2	217.2	236.2	221.5	212.9
32.5°	149.6	155.2	163.2	154.6	150.2
35°	104.6	107.6	111.3	107.9	104.9
37.5°	73.6	74.6	77.3	74.6	73.3
40°	51.6	52.0	54.0	52.3	51.6
42.5°	37.3	37.3	38.3	37.6	37.3
45°	26.6	27.0	27.6	27.3	27.0
47.5°	19.0	19.7	19.7	20.0	18.7
50°	11.3	14.0	14.3	14.0	11.3
52.5°	6.0	8.3	10.3	8.3	6.0
55°	3.7	5.0	7.0	5.0	4.0
57.5°	3.7	3.7	4.7	4.0	3.7
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.3	3.7	3.7	3.7	3.3
67.5°	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.0	3.3	3.3
72.5°	3.0	3.0	2.7	3.0	3.0
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.7	1.7	1.3	1.7	1.7
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)