

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: P314734

Luminaire Tested: **LDA2B05SP9050D010 PIN1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P314734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B05SP9050D010 PIN1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in
Adj PinHole, Black oculus, matte metallic silver finish
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 699.7 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.32 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

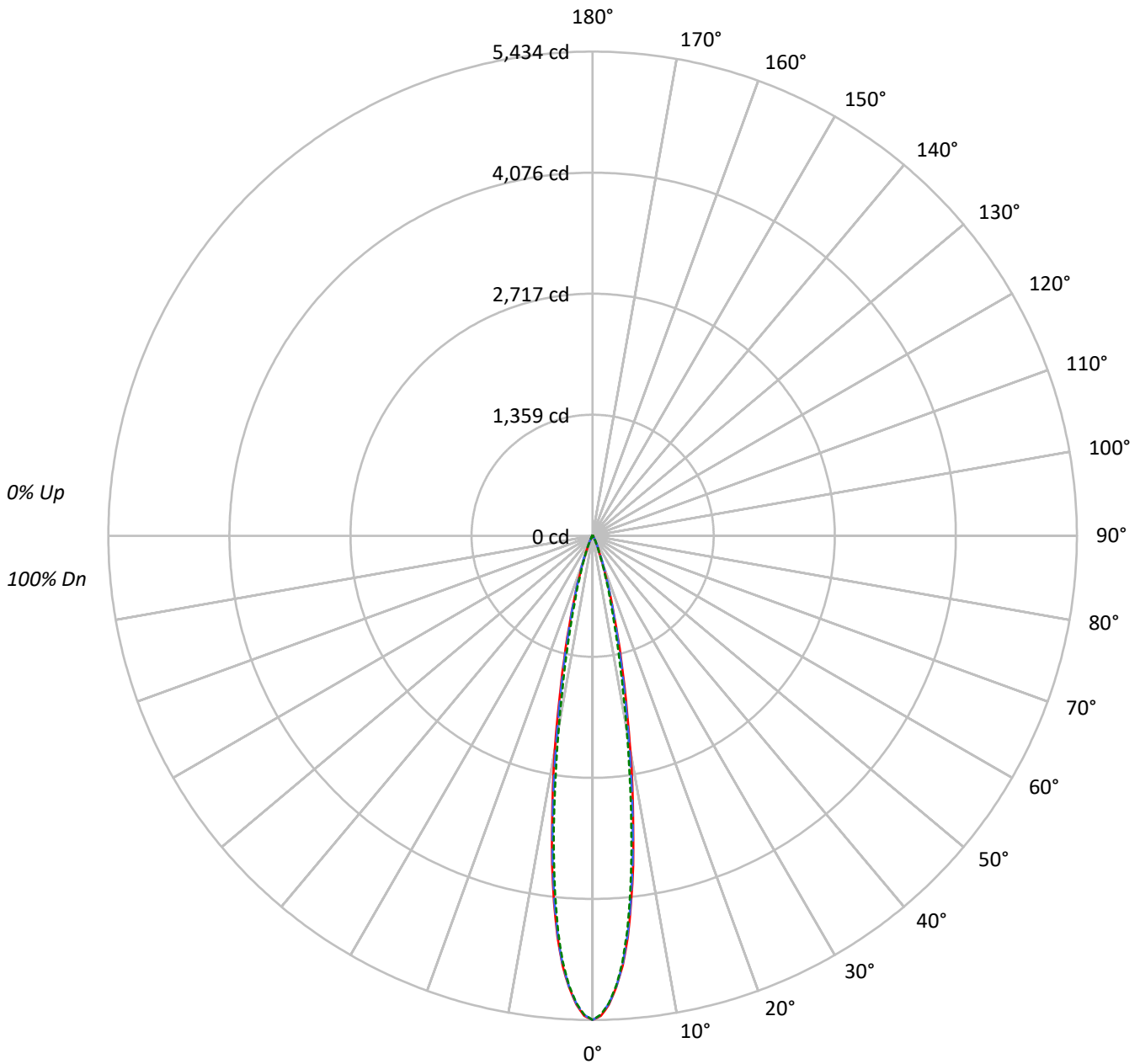
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	101	101	100	98	99	98	96	95				95															
3	109	105	102	99	107	104	101	98	101	99	97	99	97	95	97	95	94	93				93															
4	106	102	98	96	105	101	97	95	99	96	94	97	95	93	95	93	92	91				91															
5	104	99	95	92	103	98	95	92	96	94	91	95	92	91	94	92	90	89				89															
6	101	96	92	90	100	95	92	90	94	91	89	93	90	89	92	90	88	87				87															
7	99	94	90	88	98	93	90	87	92	89	87	91	89	87	90	88	86	85				85															
8	97	92	88	86	96	91	88	85	90	87	85	89	87	85	89	86	85	84				84															
9	95	90	86	84	95	89	86	84	88	86	83	88	85	83	87	85	83	82				82															
10	93	88	84	82	93	87	84	82	87	84	82	86	84	82	86	83	82	81				81															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2680681	2680681	2680681
5°	2239603	2228856	2202509
10°	1220219	1172677	1097631
15°	483746	471437	404680
20°	162548	173678	143542
25°	56396	60914	54164
30°	20623	22503	22047
35°	13310	15539	11805
40°	6956	8308	8566
45°	6419	4954	4675
50°	3838	2533	1919
55°	0	0	0
60°	2467	2467	789
65°	1985	467	0
70°	0	1731	2452
75°	0	4003	0
80°	0	0	0
85°	0	2264	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.3	50.8
10°-20°	264.4	37.8
20°-30°	58.5	8.4
30°-40°	13.0	1.9
40°-50°	5.3	0.8
50°-60°	0.9	0.1
60°-70°	0.9	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	678.2	96.9
0°-40°	691.2	98.8
0°-60°	697.4	99.7
0°-90°	699.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	699.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5434	5434	5434	5434	5434	
5°	4522	4504	4500	4484	4447	361
15°	947	944	923	837	792	278
25°	104	116	112	104	100	56
35°	22	22	26	21	20	13
45°	9	8	7	7	7	6
55°	0	0	0	0	0	1
65°	2	1	0	0	0	2
75°	0	0	2	0	0	0
85°	0	0	0	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5433.5	5433.5	5433.5	5433.5	5433.5
1°	5389.0	5366.9	5377.8	5384.0	5374.9
2°	5263.3	5236.7	5253.8	5255.4	5246.3
3°	5076.1	5064.0	5069.4	5071.5	5053.2
4°	4836.4	4818.9	4822.6	4818.1	4795.6
5°	4522.2	4503.5	4500.5	4483.5	4447.3
6°	4138.1	4127.3	4107.7	4078.6	4030.3
7°	3726.5	3717.8	3684.1	3631.6	3575.9
8°	3275.4	3275.4	3226.7	3154.3	3090.7
9°	2848.5	2832.7	2770.7	2683.3	2621.7
10°	2435.7	2414.4	2340.8	2252.1	2191.0
11°	2044.9	2022.4	1951.7	1861.0	1804.4
12°	1707.4	1695.4	1640.4	1540.5	1484.0
13°	1422.4	1406.6	1358.3	1263.8	1215.5
14°	1173.9	1154.0	1115.3	1028.7	981.7
15°	947.1	944.2	923.0	836.9	792.3
16°	774.0	772.4	752.4	668.3	650.0
17°	621.3	630.0	624.2	546.8	526.0
18°	483.6	501.0	505.2	435.3	414.5
19°	389.1	405.7	412.8	351.6	334.2
20°	309.6	325.4	330.8	285.1	273.4
22.5°	175.6	196.8	197.7	173.9	161.9
25°	103.6	115.7	111.9	103.6	99.5
26°	87.0	98.6	92.8	90.3	87.0
27°	73.2	81.1	76.6	72.4	75.3
28°	60.8	66.2	61.6	62.8	58.3
29°	48.3	57.4	50.8	52.0	48.3
30°	36.2	44.5	39.5	41.6	38.7
32.5°	27.0	29.5	26.2	29.5	29.5
35°	22.1	22.1	25.8	20.8	19.6
37.5°	10.0	7.9	8.7	7.1	8.3
40°	10.8	12.1	12.9	10.8	13.3
42.5°	7.5	10.0	10.0	6.7	11.7
45°	9.2	7.5	7.1	7.1	6.7
47.5°	4.2	2.9	3.3	3.7	5.8
50°	5.0	2.1	3.3	5.0	2.5
52.5°	1.7	0.0	2.1	0.0	0.8
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	0.0
60°	2.5	2.9	2.5	1.7	0.8
62.5°	4.2	0.8	1.2	1.7	0.0
65°	1.7	0.8	0.4	0.0	0.0
67.5°	0.0	0.0	1.2	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	2.1	0.0	0.0
77.5°	0.8	0.0	1.7	0.0	0.0
80°	0.0	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	2.1	1.7	0.0
85°	0.0	0.4	0.4	1.2	0.0
87.5°	0.0	1.2	1.7	0.4	0.8
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	1.2	0.8	1.7
72.5°	0.0	0.4	1.7	2.5	0.8



(END OF REPORT)