

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: P281625

Luminaire Tested: **LDA2B059024D010 EU2B05SP159024 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059024D010 EU2B05SP159024 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 571.4 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

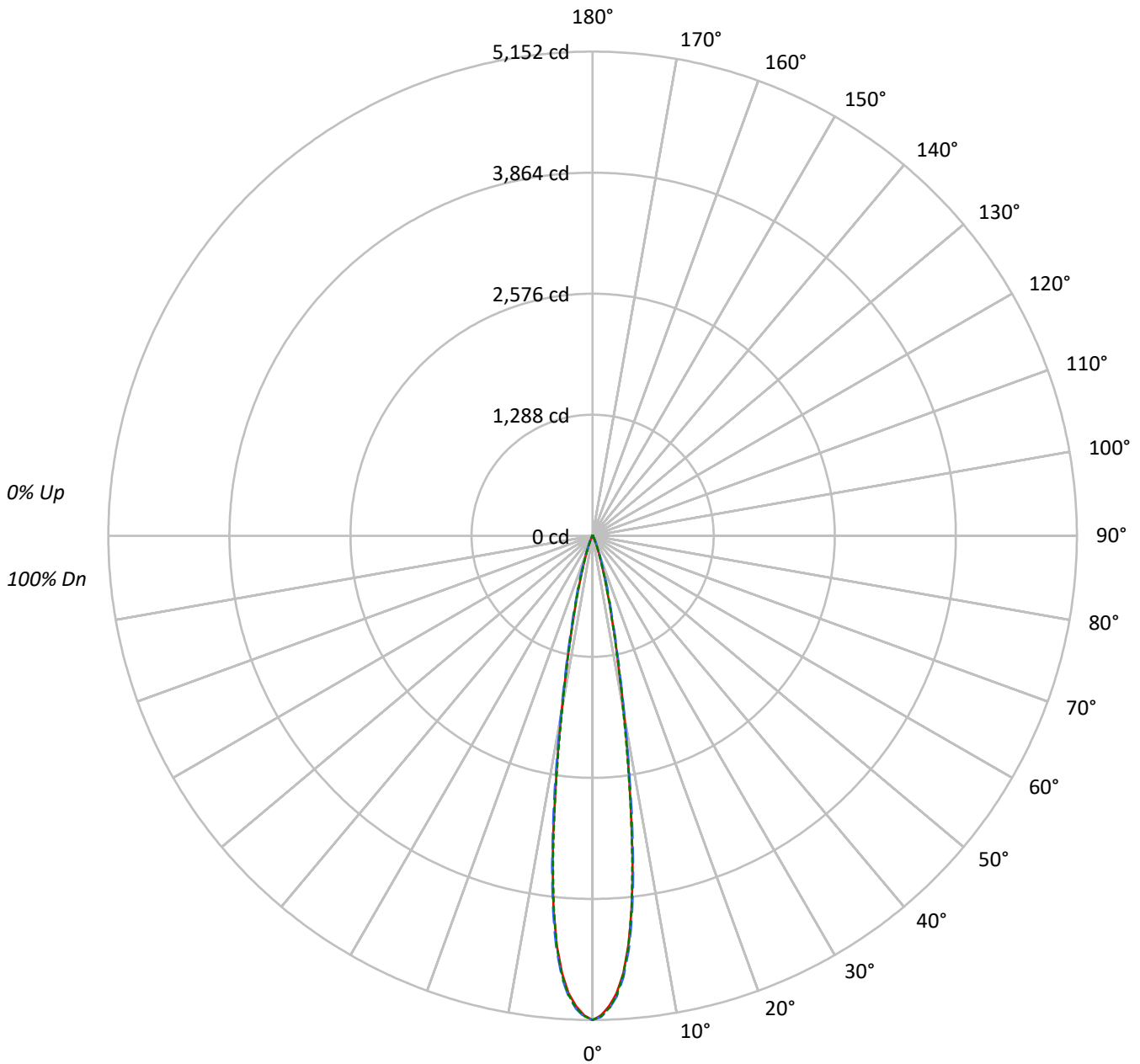
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96						96													
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94						94													
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93						93													
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91						91													
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89						89													
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88						88													
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87						87													
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85						85													
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84						84													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2541849	2541849	2541849
5°	2164474	2187008	2168535
10°	955555	977448	933262
15°	289962	332560	294508
20°	86734	115663	96972
25°	33805	33261	35547
30°	15040	13615	14356
35°	3072	2710	2710
40°	0	193	837
45°	2651	2233	3977
50°	0	768	2456
55°	0	0	1118
60°	0	296	1283
65°	0	0	700
70°	0	1875	3606
75°	0	0	0
80°	0	0	0
85°	0	1698	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	58.5
10°-20°	190.8	33.4
20°-30°	36.2	6.3
30°-40°	6.6	1.2
40°-50°	1.7	0.3
50°-60°	1.3	0.2
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	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°	561.0	98.2
0°-40°	567.5	99.3
0°-60°	570.5	99.8
0°-90°	571.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5152	5152	5152	5152	5152	
5°	4370	4399	4416	4408	4379	332
15°	568	617	651	612	577	181
25°	62	67	61	70	65	33
35°	5	6	4	5	4	7
45°	4	6	3	4	6	2
55°	0	0	0	0	1	0
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5152.1	5152.1	5152.1	5152.1	5152.1
1°	5103.4	5108.8	5120.3	5132.0	5113.6
2°	5007.9	5020.9	5037.2	5048.0	5027.9
3°	4874.2	4892.3	4909.5	4911.7	4892.9
4°	4667.5	4689.8	4708.0	4705.7	4682.2
5°	4370.5	4399.1	4416.0	4408.4	4378.7
6°	3977.9	4005.6	4027.2	4005.3	3965.5
7°	3488.9	3520.7	3543.6	3506.1	3457.3
8°	2922.1	2966.7	2989.6	2937.1	2887.1
9°	2385.3	2416.2	2439.5	2382.2	2331.2
10°	1907.4	1964.1	1951.1	1906.8	1862.9
11°	1500.2	1551.5	1553.7	1523.8	1480.8
12°	1174.5	1228.6	1242.3	1219.4	1181.2
13°	928.1	968.5	991.1	967.6	931.3
14°	738.7	774.6	803.6	773.0	736.7
15°	567.7	617.3	651.1	611.6	576.6
16°	451.5	492.5	532.7	487.8	459.7
17°	346.7	383.3	424.7	384.0	361.0
18°	274.4	303.4	348.9	306.9	286.9
19°	214.9	236.9	279.2	242.3	226.1
20°	165.2	189.4	220.3	195.2	184.7
22.5°	100.0	113.3	122.3	114.6	109.2
25°	62.1	66.9	61.1	69.7	65.3
26°	54.1	57.6	56.4	62.1	56.7
27°	43.3	47.8	44.3	48.7	47.1
28°	39.5	44.9	37.9	43.3	40.8
29°	27.7	29.9	27.1	29.0	29.0
30°	26.4	27.1	23.9	26.1	25.2
32.5°	20.7	19.4	15.9	16.9	16.2
35°	5.1	6.4	4.5	5.4	4.5
37.5°	7.6	7.0	8.3	8.0	7.6
40°	0.0	0.3	0.3	0.3	1.3
42.5°	5.7	3.5	3.2	2.2	3.8
45°	3.8	6.0	3.2	3.5	5.7
47.5°	0.0	0.3	0.0	0.6	0.6
50°	0.0	0.6	1.0	1.3	3.2
52.5°	0.6	3.8	1.9	3.5	5.1
55°	0.0	0.3	0.0	0.3	1.3
57.5°	1.3	0.6	1.3	1.3	5.7
60°	0.0	0.6	0.3	0.3	1.3
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.6
67.5°	0.0	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	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.3	0.0	0.0
80°	0.0	0.3	0.0	0.0	0.0
82.5°	0.0	0.3	0.6	1.0	0.6
85°	0.0	0.3	0.3	0.3	1.3
87.5°	0.0	0.6	1.0	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.0	1.3	0.0	2.5
72.5°	0.0	1.6	0.3	0.3	0.0



(END OF REPORT)