

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: P281649

Luminaire Tested: **LDA2B05D2WD010 EU2B05SP15D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281649
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: LDA2B05D2WD010 EU2B05SP15D2W 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: 595.8 lumens
Efficiency: N/A
Efficacy: 85.1 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

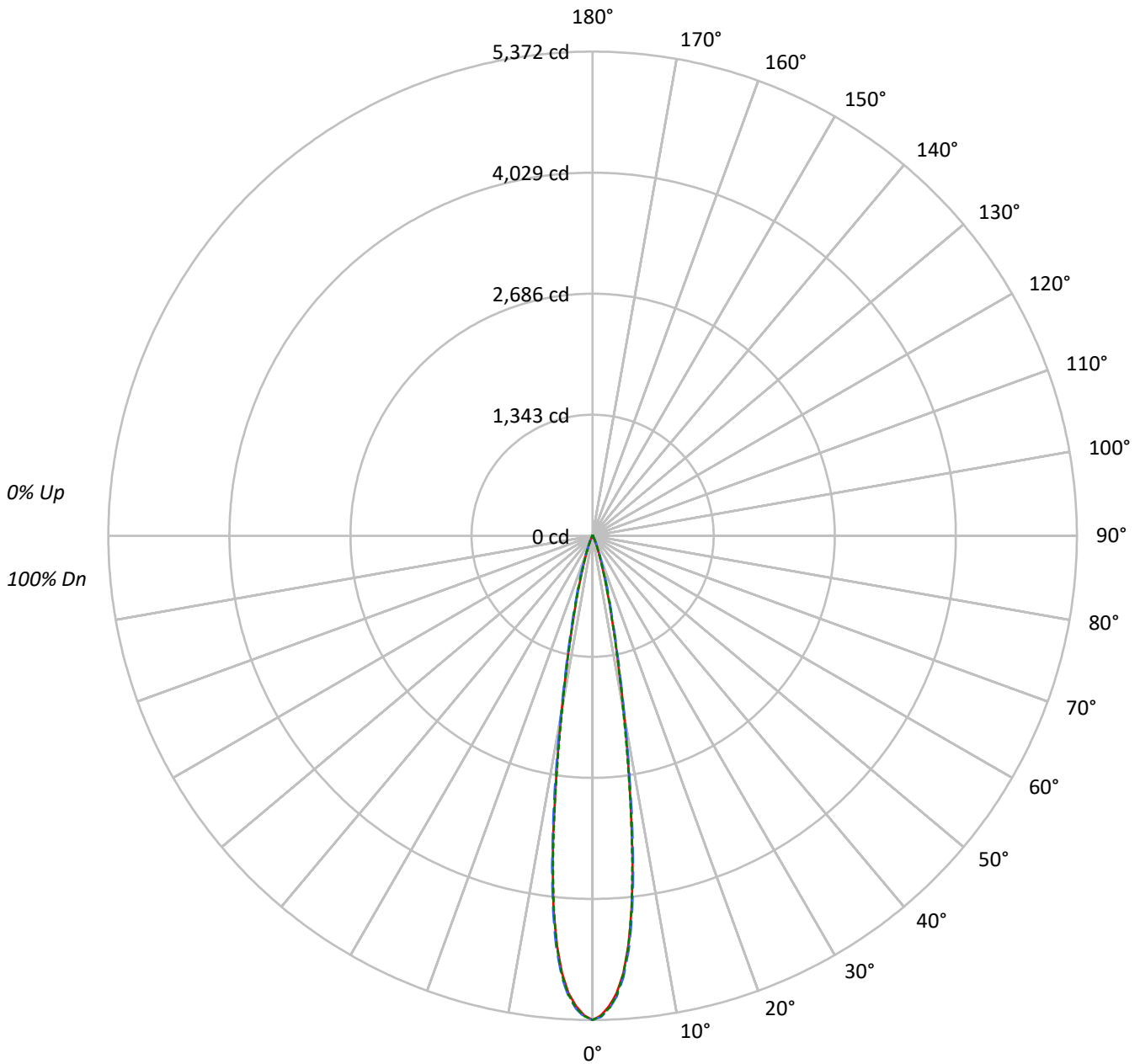
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2650290	2650290	2650290
5°	2256788	2280312	2261047
10°	996334	1019129	973039
15°	302322	346759	307072
20°	90462	120598	101067
25°	35220	34676	37071
30°	15723	14185	14926
35°	3192	2771	2771
40°	0	193	837
45°	2791	2302	4186
50°	0	768	2533
55°	0	0	1118
60°	0	296	1283
65°	0	0	817
70°	0	1875	3895
75°	0	0	0
80°	0	0	0
85°	0	1698	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	58.5
10°-20°	198.9	33.4
20°-30°	37.8	6.3
30°-40°	6.8	1.1
40°-50°	1.8	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°	584.9	98.2
0°-40°	591.7	99.3
0°-60°	594.8	99.8
0°-90°	595.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	595.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5372	5372	5372	5372	5372	
5°	4557	4587	4604	4596	4566	346
15°	592	644	679	638	601	188
25°	65	70	64	73	68	34
35°	5	7	5	6	5	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°	5371.9	5371.9	5371.9	5371.9	5371.9
1°	5321.1	5326.7	5338.7	5351.0	5331.7
2°	5221.5	5235.1	5252.0	5263.3	5242.4
3°	5082.1	5101.0	5118.9	5121.2	5101.6
4°	4866.6	4889.9	4908.8	4906.5	4881.9
5°	4556.9	4586.8	4604.4	4596.4	4565.5
6°	4147.6	4176.5	4199.0	4176.1	4134.6
7°	3637.7	3670.9	3694.8	3655.6	3604.8
8°	3046.8	3093.3	3117.2	3062.4	3010.3
9°	2487.1	2519.3	2543.5	2483.8	2430.7
10°	1988.8	2047.9	2034.3	1988.1	1942.3
11°	1564.2	1617.7	1620.0	1588.8	1544.0
12°	1224.6	1281.1	1295.3	1271.4	1231.6
13°	967.7	1009.8	1033.4	1008.8	971.0
14°	770.2	807.7	837.9	806.0	768.2
15°	591.9	643.7	678.9	637.7	601.2
16°	470.7	513.6	555.4	508.6	479.4
17°	361.5	399.7	442.8	400.4	376.4
18°	286.2	316.4	363.8	320.0	299.1
19°	224.1	247.0	291.1	252.6	235.7
20°	172.3	197.5	229.7	203.5	192.5
22.5°	104.2	118.2	127.5	119.5	113.9
25°	64.7	69.7	63.7	72.7	68.1
26°	56.4	60.1	58.8	64.7	59.1
27°	45.1	49.8	46.1	50.8	49.1
28°	41.2	46.8	39.5	45.1	42.5
29°	28.9	31.2	28.2	30.2	30.2
30°	27.6	28.2	24.9	27.2	26.2
32.5°	21.6	20.2	16.6	17.6	16.9
35°	5.3	6.6	4.6	5.6	4.6
37.5°	8.0	7.3	8.6	8.3	8.0
40°	0.0	0.3	0.3	0.3	1.3
42.5°	6.0	3.7	3.3	2.3	4.0
45°	4.0	6.3	3.3	3.7	6.0
47.5°	0.0	0.3	0.0	0.7	0.7
50°	0.0	0.7	1.0	1.3	3.3
52.5°	0.7	4.0	2.0	3.7	5.3
55°	0.0	0.3	0.0	0.3	1.3
57.5°	1.3	0.7	1.3	1.3	6.0
60°	0.0	0.7	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	0.7
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	0.7	1.0	0.7
85°	0.0	0.3	0.3	0.3	1.3
87.5°	0.0	0.7	1.0	0.0	0.7
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	2.7
72.5°	0.0	1.7	0.3	0.3	0.0



(END OF REPORT)