

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: P282194

Luminaire Tested: **LDA2B05D2WD010 EU2B05NFL25D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B05D2WD010 EU2B05NFL25D2W 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 546.3 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

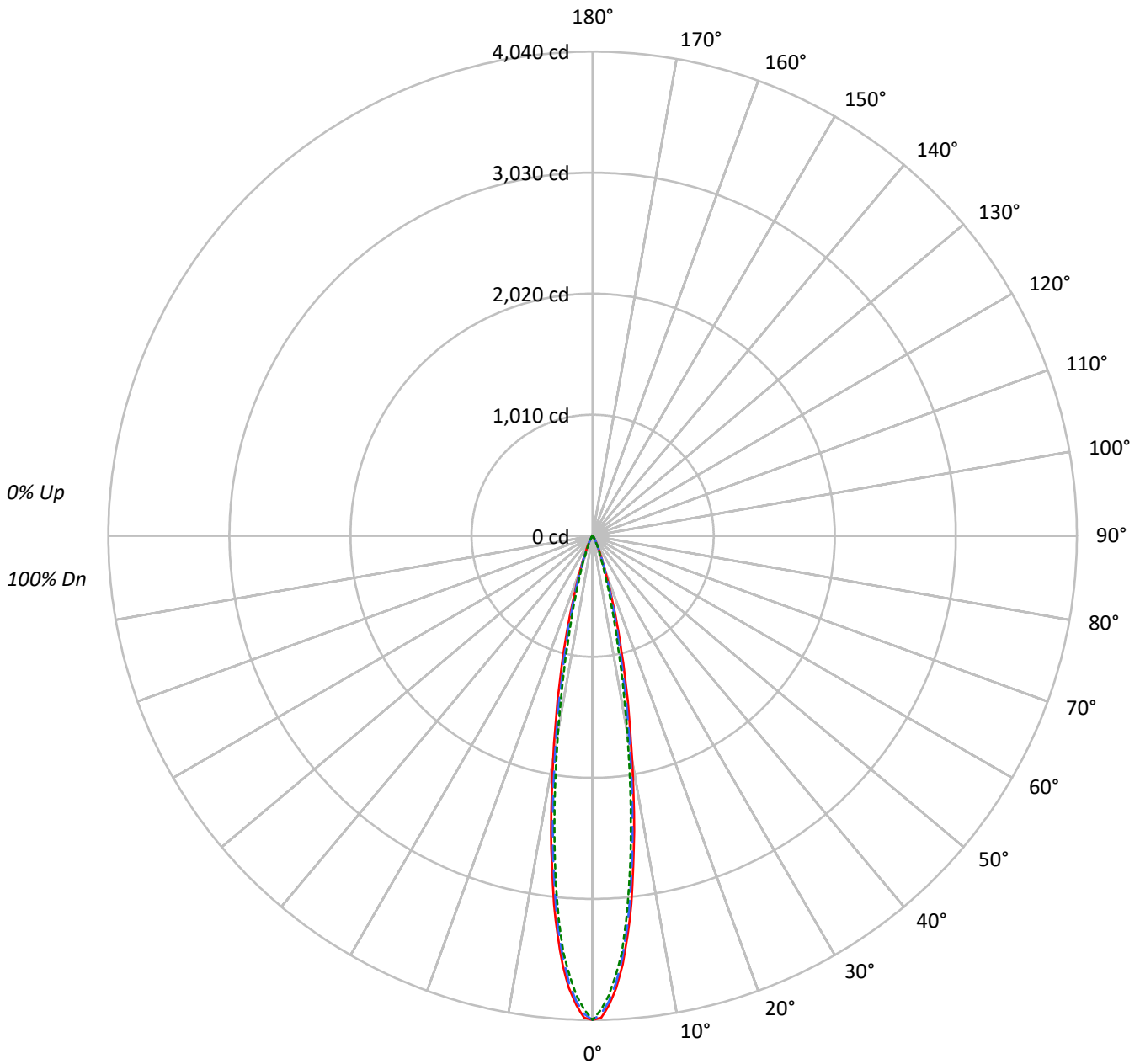
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1993182	1993182	1993182
5°	1658531	1628172	1595288
10°	949995	891481	832015
15°	422556	375260	314478
20°	153307	144119	114193
25°	58846	54981	47305
30°	25408	23585	20964
35°	11985	11985	9938
40°	5990	6247	5023
45°	3489	3279	3070
50°	2379	2149	2149
55°	1892	1376	1634
60°	1579	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	48.1
10°-20°	212.6	38.9
20°-30°	51.3	9.4
30°-40°	13.1	2.4
40°-50°	3.9	0.7
50°-60°	1.7	0.3
60°-70°	0.8	0.1
70°-80°	0.3	0.0
80°-90°	0.0	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°	526.7	96.4
0°-40°	539.7	98.8
0°-60°	545.3	99.8
0°-90°	546.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	546.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4040	4040	4040	4040	4040	
5°	3349	3318	3288	3259	3221	271
15°	827	808	735	662	616	236
25°	108	109	101	92	87	56
35°	20	20	20	18	16	14
45°	5	5	5	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4040.0	4040.0	4040.0	4040.0	4040.0
1°	4022.0	3993.9	3990.5	4007.9	3956.5
2°	3919.1	3899.2	3887.7	3898.0	3839.7
3°	3778.0	3758.7	3737.8	3738.1	3673.0
4°	3585.7	3570.5	3535.3	3524.7	3487.0
5°	3348.9	3318.1	3287.6	3258.9	3221.2
6°	3087.2	3047.3	3003.7	2961.0	2922.4
7°	2779.4	2752.9	2695.2	2637.0	2604.2
8°	2489.9	2447.2	2379.9	2307.0	2279.3
9°	2178.6	2148.1	2070.8	1986.1	1958.3
10°	1896.3	1864.5	1779.5	1685.1	1660.8
11°	1631.5	1601.6	1513.1	1414.0	1388.1
12°	1407.4	1365.1	1263.5	1177.5	1152.2
13°	1184.3	1155.4	1059.1	974.0	925.1
14°	994.6	970.6	883.3	808.6	756.8
15°	827.3	807.6	734.7	661.8	615.7
16°	678.6	666.5	608.8	538.4	500.7
17°	550.6	539.4	502.6	437.8	406.0
18°	444.6	443.1	412.5	356.5	328.1
19°	365.8	365.2	337.1	290.1	266.7
20°	292.0	296.0	274.5	233.4	217.5
21°	238.1	240.2	223.1	191.9	177.6
22°	193.8	195.4	184.1	158.6	150.8
23°	158.9	159.8	150.5	131.5	124.6
24°	130.9	131.5	123.1	109.7	103.8
25°	108.1	108.7	101.0	91.6	86.9
26°	89.7	90.4	83.5	77.0	72.3
27°	74.5	75.7	68.9	64.8	59.8
28°	63.6	63.9	57.6	55.2	50.5
29°	52.0	53.9	48.6	46.4	43.0
30°	44.6	45.5	41.4	39.9	36.8
32.5°	29.6	30.2	28.4	27.1	24.6
35°	19.9	20.3	19.9	18.1	16.5
37.5°	13.7	13.7	14.0	11.8	11.2
40°	9.3	9.3	9.7	8.1	7.8
42.5°	6.9	6.9	6.5	5.6	5.6
45°	5.0	5.0	4.7	4.4	4.4
47.5°	4.1	3.7	3.4	3.4	3.4
50°	3.1	3.1	2.8	2.5	2.8
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.2	1.2	1.6
60°	1.6	1.2	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)