

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: P282196

Luminaire Tested: **LDA2B05D2WD010 EU2B05NFL25D2W 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282196
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 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 540.8 lumens
Efficiency: N/A
Efficacy: 77.3 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

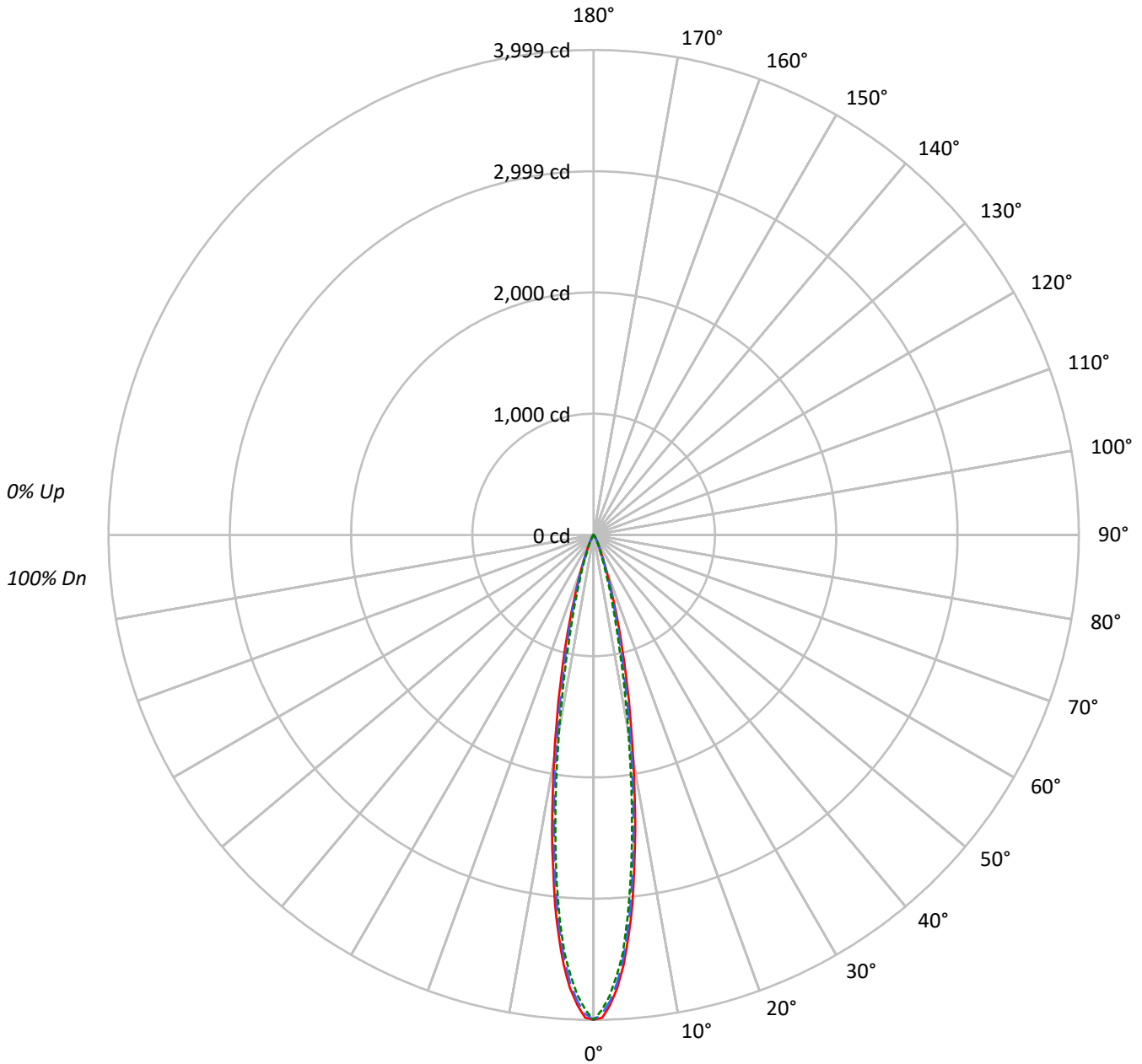
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1972954	1972954	1972954
5°	1641692	1611631	1579093
10°	940376	882413	823549
15°	418266	371480	311261
20°	151732	142649	113038
25°	58247	54382	46870
30°	25123	23357	20737
35°	11865	11865	9817
40°	5990	6183	4959
45°	3419	3210	3000
50°	2379	2149	2149
55°	1892	1290	1634
60°	1480	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°	260.1	48.1
10°-20°	210.5	38.9
20°-30°	50.8	9.4
30°-40°	12.9	2.4
40°-50°	3.9	0.7
50°-60°	1.6	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°	521.3	96.4
0°-40°	534.3	98.8
0°-60°	539.8	99.8
0°-90°	540.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	3315	3284	3254	3226	3188	268
15°	819	799	727	655	609	233
25°	107	108	100	91	86	55
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°	3999.0	3999.0	3999.0	3999.0	3999.0
1°	3981.1	3953.4	3950.0	3967.3	3916.4
2°	3879.4	3859.6	3848.2	3858.4	3800.7
3°	3739.6	3720.5	3699.9	3700.2	3635.7
4°	3549.3	3534.2	3499.4	3488.9	3451.6
5°	3314.9	3284.4	3254.2	3225.8	3188.5
6°	3055.9	3016.4	2973.2	2931.0	2892.7
7°	2751.1	2724.9	2667.9	2610.2	2577.8
8°	2464.6	2422.4	2355.7	2283.6	2256.1
9°	2156.5	2126.3	2049.8	1965.9	1938.4
10°	1877.1	1845.6	1761.4	1668.0	1643.9
11°	1614.9	1585.3	1497.7	1399.6	1374.0
12°	1393.2	1351.2	1250.7	1165.5	1140.6
13°	1172.3	1143.6	1048.3	964.1	915.7
14°	984.5	960.7	874.4	800.4	749.2
15°	818.9	799.4	727.3	655.1	609.4
16°	671.7	659.7	602.7	533.0	495.6
17°	545.0	533.9	497.5	433.3	401.9
18°	440.1	438.6	408.4	352.8	324.8
19°	362.1	361.5	333.7	287.1	264.0
20°	289.0	293.0	271.7	231.0	215.3
21°	235.6	237.8	220.8	190.0	175.8
22°	191.8	193.4	182.3	157.0	149.3
23°	157.3	158.2	149.0	130.2	123.4
24°	129.5	130.2	121.8	108.6	102.7
25°	107.0	107.6	99.9	90.7	86.1
26°	88.8	89.4	82.7	76.2	71.6
27°	73.7	74.9	68.2	64.2	59.2
28°	62.9	63.2	57.1	54.6	50.0
29°	51.5	53.4	48.1	46.0	42.6
30°	44.1	45.0	41.0	39.5	36.4
32.5°	29.3	29.9	28.1	26.8	24.4
35°	19.7	20.0	19.7	17.9	16.3
37.5°	13.6	13.6	13.9	11.7	11.1
40°	9.3	9.3	9.6	8.0	7.7
42.5°	6.8	6.8	6.5	5.6	5.6
45°	4.9	4.9	4.6	4.3	4.3
47.5°	4.0	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	1.5	1.5	1.9
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	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)