

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: P282661

Luminaire Tested: **LDA2B05D2WD010 EU2B05NFL25D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282661
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 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ Pinhole w-lens, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 505.1 lumens
Efficiency: N/A
Efficacy: 72.2 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

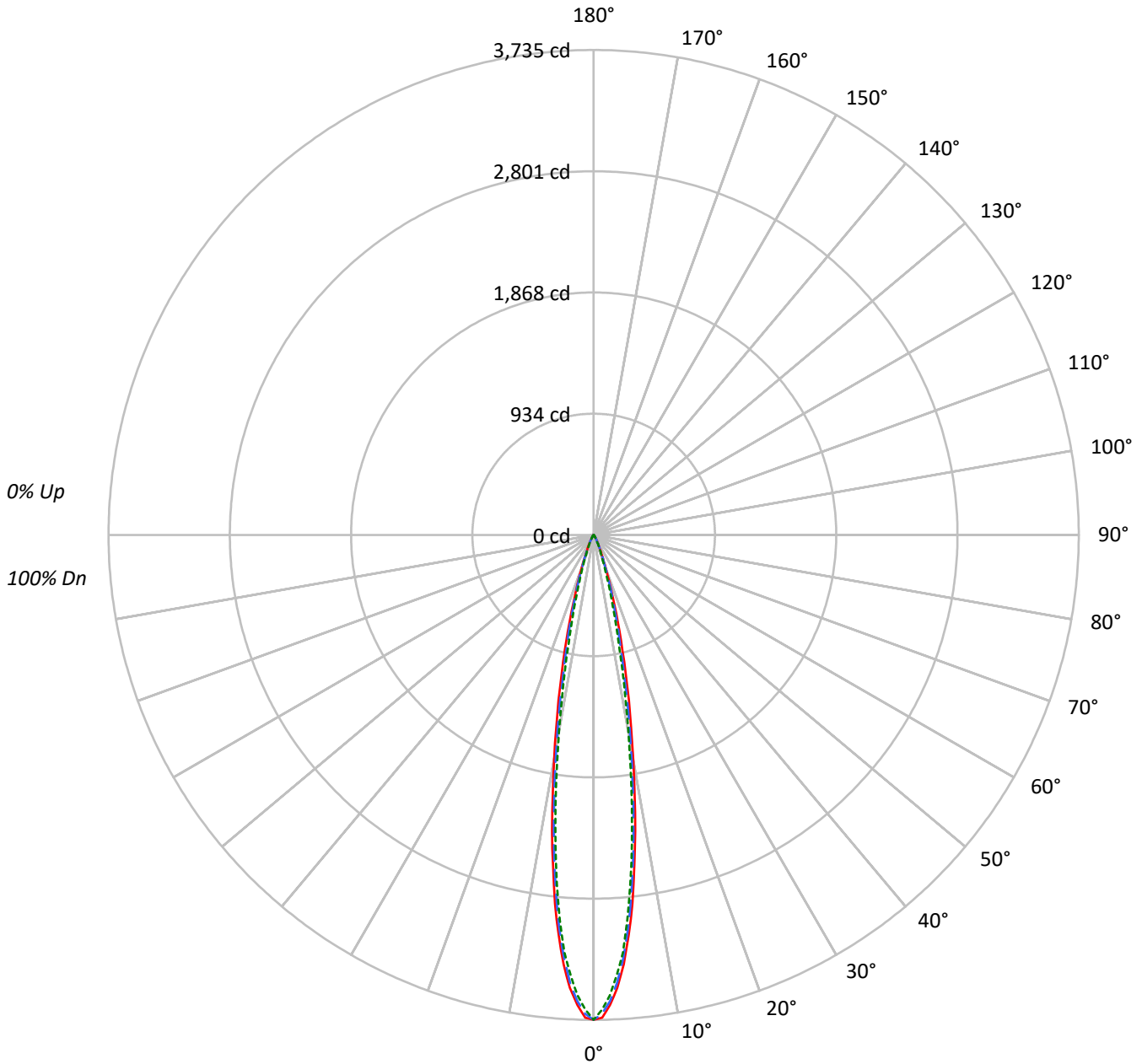
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	84	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°	1842558	1842558	1842558
5°	1533184	1505103	1474695
10°	878205	824100	769093
15°	390583	346912	290728
20°	141704	133251	105582
25°	54382	50789	43767
30°	23471	21819	19369
35°	11082	11082	9215
40°	5539	5732	4637
45°	3210	3000	2791
50°	2226	1996	1996
55°	1720	1204	1462
60°	1381	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°	242.9	48.1
10°-20°	196.6	38.9
20°-30°	47.4	9.4
30°-40°	12.1	2.4
40°-50°	3.6	0.7
50°-60°	1.5	0.3
60°-70°	0.8	0.2
70°-80°	0.3	0.1
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°	486.9	96.4
0°-40°	499.0	98.8
0°-60°	504.1	99.8
0°-90°	505.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3735	3735	3735	3735	3735	
5°	3096	3067	3039	3013	2978	250
15°	765	747	679	612	569	218
25°	100	100	93	85	80	52
35°	18	19	18	17	15	13
45°	5	5	4	4	4	4
55°	2	2	1	1	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°	3734.7	3734.7	3734.7	3734.7	3734.7
1°	3718.0	3692.1	3688.9	3705.0	3657.5
2°	3622.9	3604.5	3593.9	3603.4	3549.5
3°	3492.5	3474.6	3455.3	3455.6	3395.4
4°	3314.7	3300.6	3268.1	3258.3	3223.4
5°	3095.8	3067.3	3039.1	3012.6	2977.7
6°	2853.9	2817.0	2776.7	2737.2	2701.5
7°	2569.3	2544.8	2491.5	2437.7	2407.4
8°	2301.7	2262.3	2200.0	2132.6	2107.0
9°	2014.0	1985.7	1914.3	1836.0	1810.3
10°	1753.0	1723.6	1645.0	1557.7	1535.2
11°	1508.2	1480.5	1398.7	1307.1	1283.2
12°	1301.1	1261.9	1168.0	1088.5	1065.2
13°	1094.8	1068.0	979.0	900.4	855.2
14°	919.4	897.2	816.6	747.5	699.6
15°	764.7	746.6	679.2	611.8	569.2
16°	627.3	616.1	562.8	497.7	462.9
17°	509.0	498.6	464.6	404.7	375.3
18°	411.0	409.6	381.4	329.5	303.3
19°	338.2	337.6	311.7	268.2	246.6
20°	269.9	273.6	253.8	215.7	201.1
21°	220.1	222.1	206.2	177.4	164.2
22°	179.2	180.6	170.2	146.6	139.4
23°	146.9	147.8	139.1	121.6	115.2
24°	121.0	121.6	113.8	101.4	95.9
25°	99.9	100.5	93.3	84.7	80.4
26°	83.0	83.5	77.2	71.1	66.8
27°	68.8	70.0	63.7	59.9	55.3
28°	58.8	59.0	53.3	51.0	46.7
29°	48.1	49.8	44.9	42.9	39.7
30°	41.2	42.1	38.3	36.9	34.0
32.5°	27.4	27.9	26.2	25.1	22.8
35°	18.4	18.7	18.4	16.7	15.3
37.5°	12.7	12.7	13.0	10.9	10.4
40°	8.6	8.6	8.9	7.5	7.2
42.5°	6.3	6.3	6.0	5.2	5.2
45°	4.6	4.6	4.3	4.0	4.0
47.5°	3.7	3.5	3.2	3.2	3.2
50°	2.9	2.9	2.6	2.3	2.6
52.5°	2.3	2.3	2.0	2.0	2.0
55°	2.0	1.7	1.4	1.4	1.7
57.5°	1.4	1.4	1.2	1.2	1.4
60°	1.4	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)