

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: P283879

Luminaire Tested: **LDA2B05D2WD010 EU2B05WFL55D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B05D2WD010 EU2B05WFL55D2W 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 503.4 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

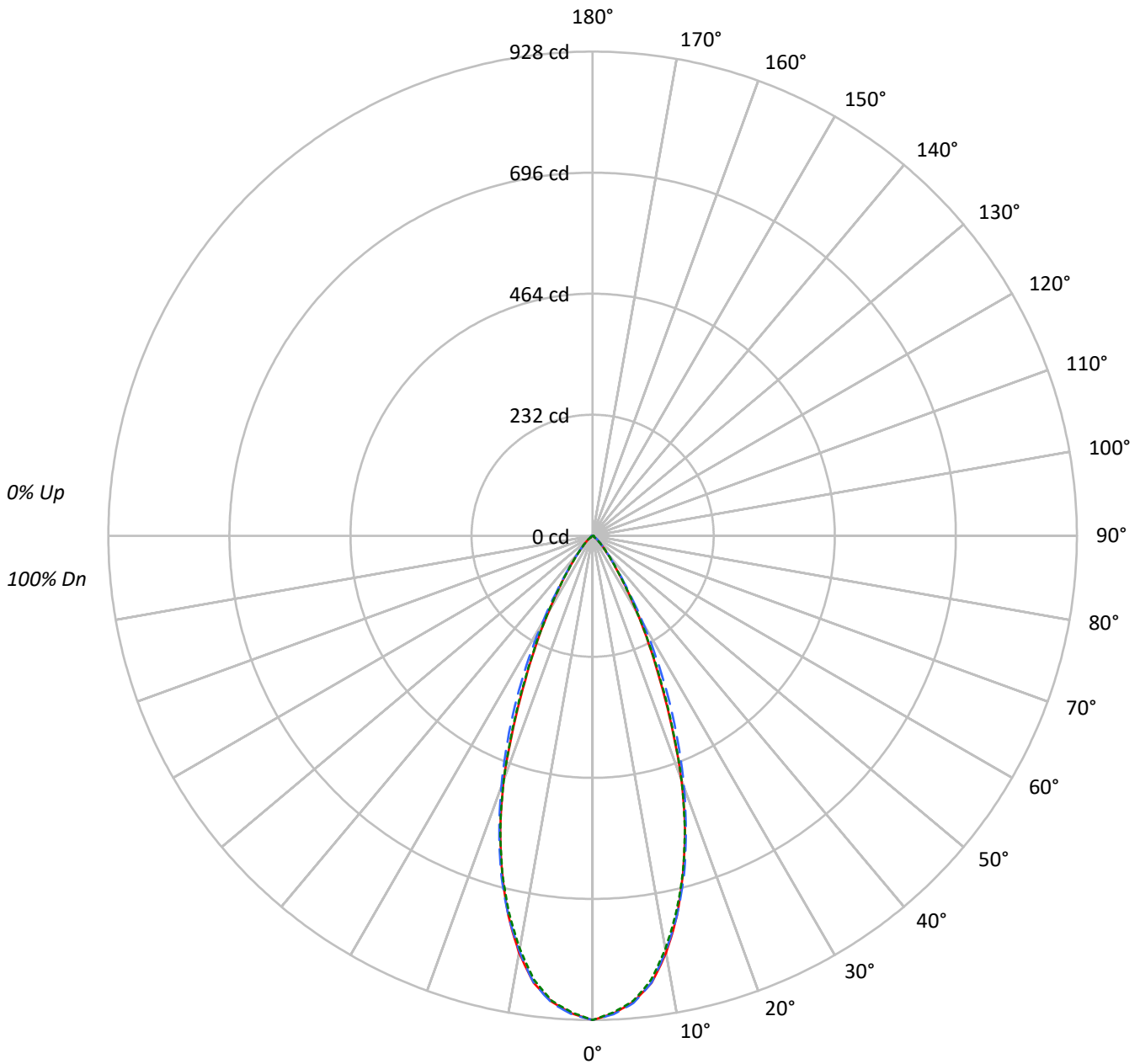
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	457889	457889	457889
5°	444137	445226	443196
10°	406539	404936	402481
15°	341958	345124	341396
20°	261515	268445	261095
25°	166086	187207	169297
30°	96562	109038	98271
35°	51074	54326	51194
40°	26921	28144	26921
45°	15071	15629	15280
50°	7061	8903	7061
55°	2580	4903	2752
60°	2960	2960	2960
65°	3152	3502	3152
70°	3895	3462	3895
75°	3622	3622	3622
80°	3694	3125	3694
85°	2830	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	16.5
10°-20°	184.5	36.6
20°-30°	149.0	29.6
30°-40°	58.9	11.7
40°-50°	18.1	3.6
50°-60°	4.7	0.9
60°-70°	2.8	0.6
70°-80°	2.1	0.4
80°-90°	0.6	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°	416.3	82.7
0°-40°	475.2	94.4
0°-60°	497.9	98.9
0°-90°	503.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	897	898	899	897	895	83
15°	670	671	676	673	668	184
25°	305	320	344	326	311	142
35°	85	87	90	88	85	57
45°	22	22	22	22	22	18
55°	3	4	6	4	3	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.1	928.1	928.1	928.1	928.1
2.5°	916.5	917.1	917.9	916.8	914.1
5°	896.8	898.4	899.0	897.1	894.9
7.5°	864.4	862.5	864.1	860.9	858.2
10°	811.5	809.1	808.3	803.4	803.4
12.5°	746.2	745.4	745.9	743.5	739.7
15°	669.5	671.4	675.7	673.0	668.4
17.5°	588.2	590.9	594.7	593.9	587.7
20°	498.1	505.9	511.3	506.2	497.3
22.5°	395.5	412.2	426.0	415.2	400.6
25°	305.1	319.6	343.9	325.6	311.0
27.5°	231.4	241.9	264.0	245.9	235.9
30°	169.5	176.0	191.4	179.5	172.5
32.5°	121.2	125.8	132.3	125.3	121.8
35°	84.8	87.2	90.2	87.5	85.0
37.5°	59.7	60.5	62.6	60.5	59.4
40°	41.8	42.1	43.7	42.4	41.8
42.5°	30.2	30.2	31.0	30.5	30.2
45°	21.6	21.9	22.4	22.1	21.9
47.5°	15.4	15.9	15.9	16.2	15.1
50°	9.2	11.3	11.6	11.3	9.2
52.5°	4.9	6.7	8.4	6.7	4.9
55°	3.0	4.0	5.7	4.0	3.2
57.5°	3.0	3.0	3.8	3.2	3.0
60°	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.7	3.0	3.0	3.0	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.4	2.7	2.7
72.5°	2.4	2.4	2.2	2.4	2.4
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.3	1.3	1.1	1.3	1.3
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.5	0.5	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)