

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: P283874

Luminaire Tested: **LDA2B05D2WD010 EU2B05WFL55D2W 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283874
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 548.7 lumens
Efficiency: N/A
Efficacy: 78.4 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

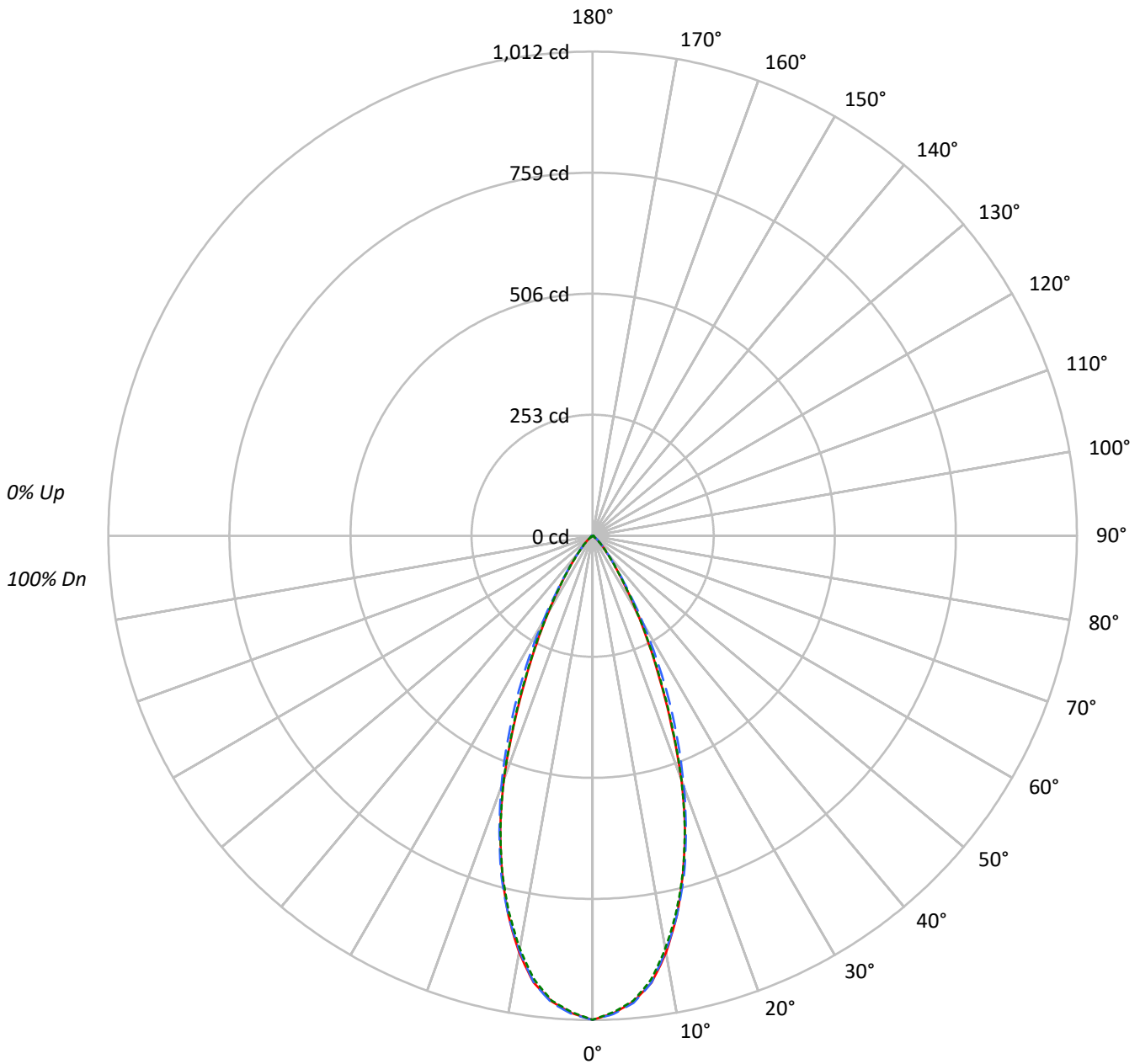
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283874

CATALOG NUMBER: LDA2B05D2WD010 EU2B05WFL55D2W 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283874

CATALOG NUMBER: LDA2B05D2WD010 EU2B05WFL55D2W 2LBAPINSQ1MW

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	499134	499134	499134
5°	484103	485292	483113
10°	443110	441357	438702
15°	372757	376179	372144
20°	285036	292596	284563
25°	181001	204082	184540
30°	105278	118836	107101
35°	55651	59204	55832
40°	29368	30721	29368
45°	16396	17024	16606
50°	7675	9748	7675
55°	2752	5333	3011
60°	3158	3158	3158
65°	3385	3736	3385
70°	4183	3750	4183
75°	4003	4003	4003
80°	4262	3409	4262
85°	3396	3396	3396



TEST NUMBER: P283874

CATALOG NUMBER: LDA2B05D2WD010 EU2B05WFL55D2W 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	16.5
10°-20°	201.1	36.6
20°-30°	162.4	29.6
30°-40°	64.2	11.7
40°-50°	19.7	3.6
50°-60°	5.1	0.9
60°-70°	3.0	0.6
70°-80°	2.3	0.4
80°-90°	0.7	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°	453.8	82.7
0°-40°	517.9	94.4
0°-60°	542.7	98.9
0°-90°	548.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	548.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	978	979	980	978	976	90
15°	730	732	736	734	729	200
25°	332	348	375	355	339	155
35°	92	95	98	95	93	62
45°	24	24	24	24	24	19
55°	3	4	6	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283874

CATALOG NUMBER: LDA2B05D2WD010 EU2B05WFL55D2W 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.7	1011.7	1011.7	1011.7	1011.7
2.5°	999.0	999.6	1000.5	999.3	996.4
5°	977.5	979.3	979.9	977.8	975.5
7.5°	942.2	940.2	941.9	938.4	935.4
10°	884.5	881.9	881.0	875.7	875.7
12.5°	813.3	812.4	813.0	810.4	806.3
15°	729.8	731.8	736.5	733.6	728.6
17.5°	641.2	644.1	648.3	647.4	640.6
20°	542.9	551.4	557.3	551.7	542.0
22.5°	431.1	449.3	464.3	452.6	436.7
25°	332.5	348.4	374.9	354.9	339.0
27.5°	252.2	263.7	287.8	268.1	257.2
30°	184.8	191.9	208.6	195.7	188.0
32.5°	132.1	137.1	144.2	136.5	132.7
35°	92.4	95.0	98.3	95.3	92.7
37.5°	65.0	65.9	68.3	65.9	64.7
40°	45.6	45.9	47.7	46.2	45.6
42.5°	33.0	33.0	33.8	33.3	33.0
45°	23.5	23.8	24.4	24.1	23.8
47.5°	16.8	17.4	17.4	17.7	16.5
50°	10.0	12.4	12.7	12.4	10.0
52.5°	5.3	7.4	9.1	7.4	5.3
55°	3.2	4.4	6.2	4.4	3.5
57.5°	3.2	3.2	4.1	3.5	3.2
60°	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.9	3.2	3.2	3.2	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.6	2.9	2.9
72.5°	2.6	2.6	2.4	2.6	2.6
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.2	1.5	1.5
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





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







(END OF REPORT)