

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: P283543

Luminaire Tested: **LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 484.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

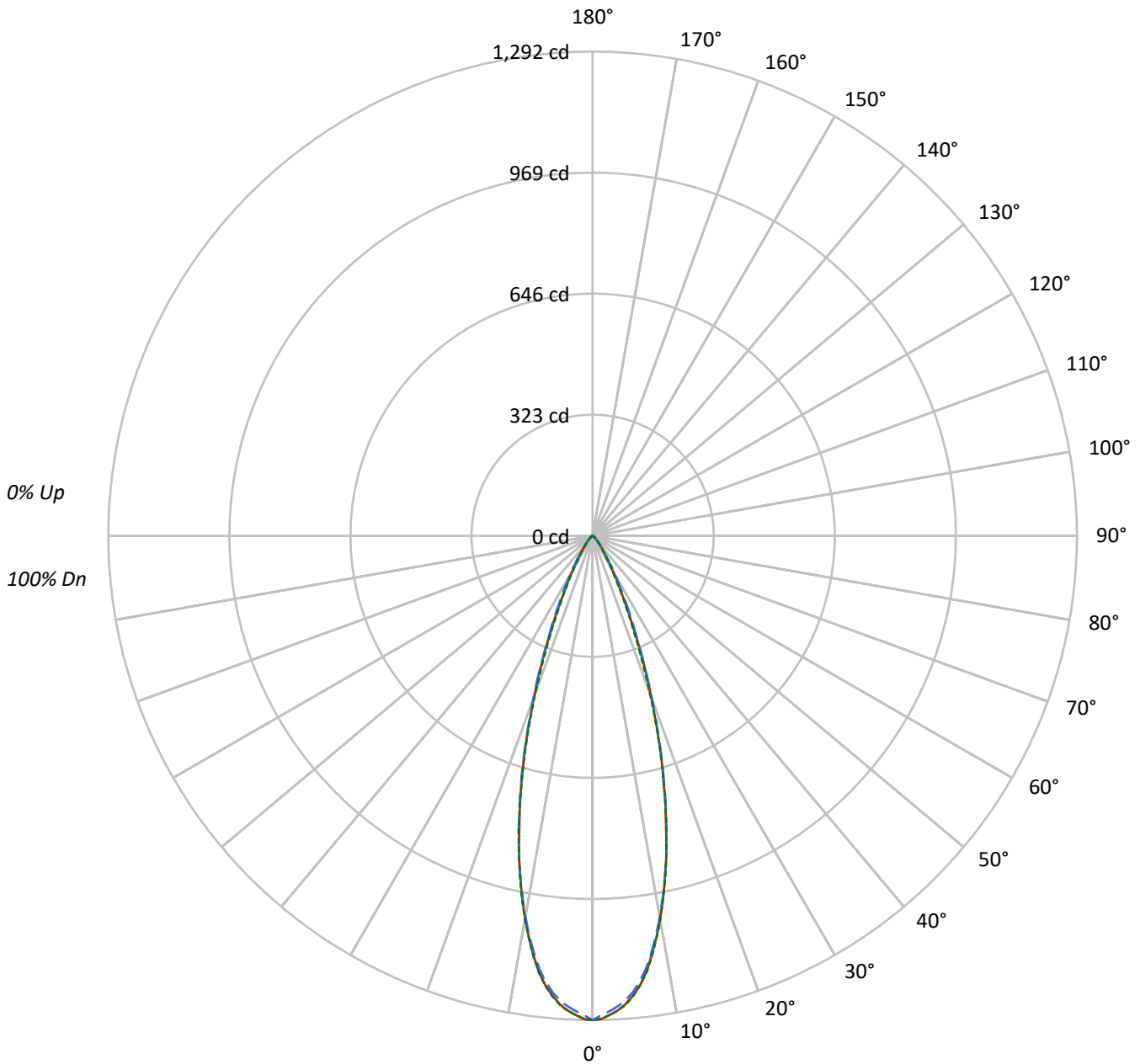
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283543

CATALOG NUMBER: LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P283543

CATALOG NUMBER: LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	637670	637670	637670
5°	610243	605686	611184
10°	519909	516653	520461
15°	383228	385679	384453
20°	239201	243664	233951
25°	123571	132607	117365
30°	59247	67906	56456
35°	30596	33848	28608
40°	17131	18033	16294
45°	10396	10396	10047
50°	5449	6678	5449
55°	2838	4473	3011
60°	3256	3256	3256
65°	3502	3502	3502
70°	4327	3895	4327
75°	4194	4194	4194
80°	3978	3978	3978
85°	2830	2830	2830



TEST NUMBER: P283543

CATALOG NUMBER: LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	23.0
10°-20°	204.2	42.2
20°-30°	110.7	22.9
30°-40°	35.5	7.3
40°-50°	12.1	2.5
50°-60°	4.3	0.9
60°-70°	3.1	0.6
70°-80°	2.3	0.5
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°	426.1	88.0
0°-40°	461.6	95.4
0°-60°	478.0	98.8
0°-90°	484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1232	1225	1223	1235	1234	111
15°	750	756	755	759	753	203
25°	227	237	244	227	216	109
35°	51	53	56	51	48	34
45°	15	15	15	15	14	12
55°	3	4	5	4	4	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	



TEST NUMBER: P283543

CATALOG NUMBER: LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.5	1292.5	1292.5	1292.5	1292.5
1°	1290.3	1281.1	1279.8	1291.7	1289.0
2°	1280.0	1271.3	1270.0	1281.9	1279.5
3°	1268.6	1260.8	1258.0	1270.5	1268.9
4°	1253.4	1246.1	1243.6	1256.1	1254.8
5°	1232.2	1224.6	1223.0	1235.2	1234.1
6°	1206.2	1199.9	1196.9	1209.2	1207.0
7°	1173.6	1167.9	1164.6	1173.6	1174.7
8°	1131.2	1128.5	1124.7	1133.7	1133.7
9°	1086.2	1083.7	1079.6	1087.8	1087.8
10°	1037.8	1036.2	1031.3	1038.9	1038.9
11°	984.9	984.1	980.5	986.8	986.8
12°	929.2	931.1	927.8	933.3	931.4
13°	873.5	872.7	873.0	877.1	874.1
14°	810.5	815.4	816.2	818.7	814.1
15°	750.3	756.5	755.1	758.7	752.7
16°	688.6	695.7	695.4	696.2	690.5
17°	631.1	635.1	635.4	634.6	627.5
18°	569.7	575.4	575.4	574.0	565.6
19°	509.7	514.0	517.0	514.0	504.2
20°	455.6	458.6	464.1	456.5	445.6
21°	403.8	406.5	411.1	402.1	390.2
22°	354.1	357.6	362.0	351.6	339.2
23°	307.7	315.8	317.4	303.3	292.7
24°	265.0	274.3	277.0	262.6	251.4
25°	227.0	237.3	243.6	226.7	215.6
26°	194.1	204.2	211.8	195.0	184.4
27°	165.4	176.0	183.8	168.1	158.0
28°	140.7	151.0	159.1	144.5	135.0
29°	122.2	128.2	136.3	124.1	115.4
30°	104.0	110.5	119.2	106.7	99.1
32.5°	71.4	74.9	81.7	74.1	68.2
35°	50.8	52.9	56.2	51.0	47.5
37.5°	36.1	37.2	39.1	36.1	34.2
40°	26.6	27.2	28.0	26.3	25.3
42.5°	19.8	20.1	20.1	19.6	19.0
45°	14.9	15.2	14.9	14.9	14.4
47.5°	10.9	11.7	11.4	11.4	10.6
50°	7.1	8.7	8.7	8.4	7.1
52.5°	4.3	6.0	6.8	6.0	4.6
55°	3.3	4.1	5.2	4.1	3.5
57.5°	3.3	3.3	3.8	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3



TEST NUMBER: P283543

CATALOG NUMBER: LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MMS

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.4	2.7	2.4
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	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



Report Generated By E9808895 / USPTCWHP6082093





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







62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.0	3.3	3.0	3.3	3.0



(END OF REPORT)