

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: P283541

Luminaire Tested: **LDA2B05D2WD010 EU2B05FL40D2W 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283541
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 494.9 lumens
Efficiency: N/A
Efficacy: 70.7 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

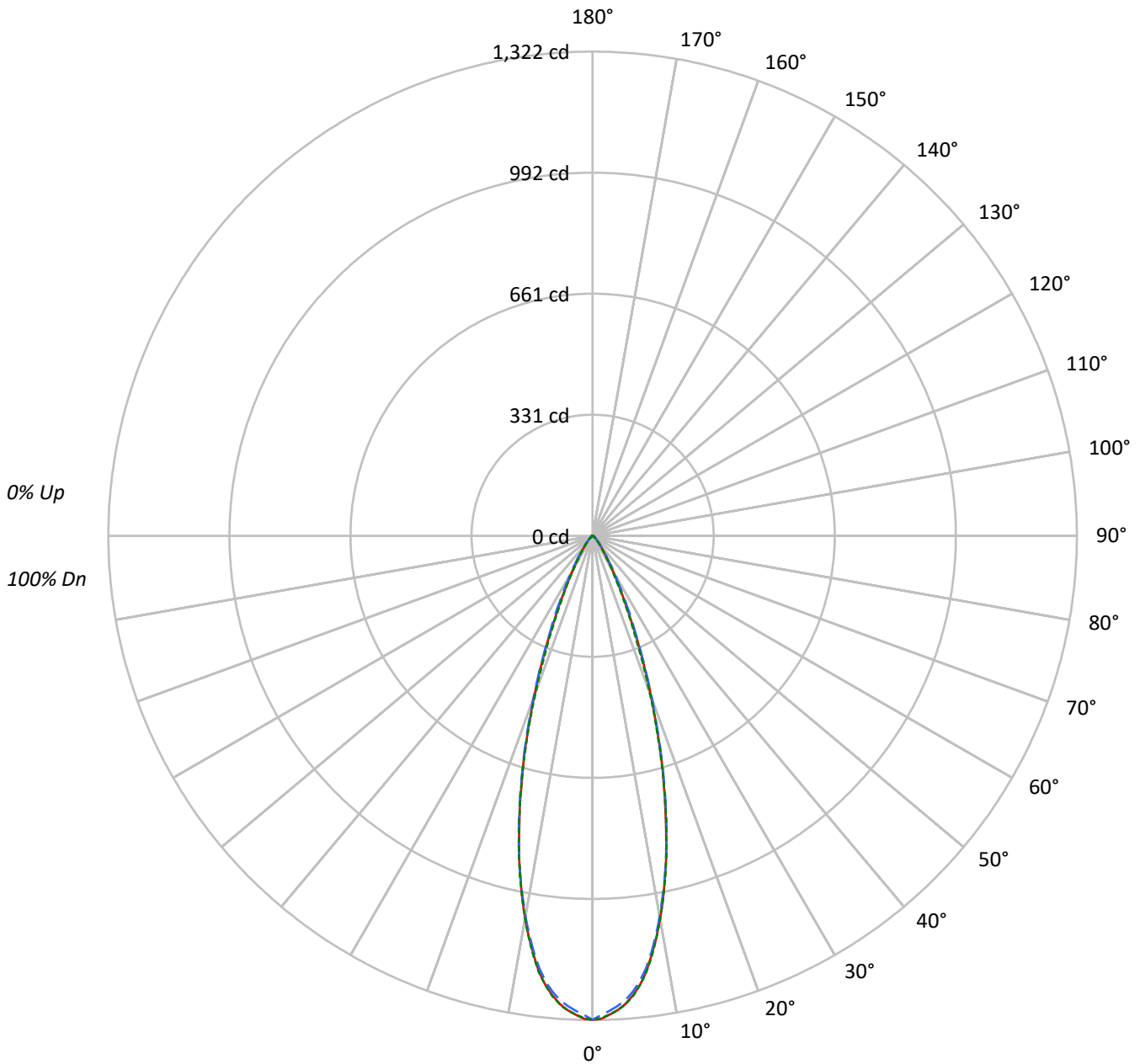
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	652027	652027	652027
5°	624010	619306	624951
10°	531632	528276	532183
15°	391808	394362	393085
20°	244609	249124	239201
25°	126347	135547	120032
30°	60558	69445	57709
35°	31259	34631	29271
40°	17518	18419	16616
45°	10675	10675	10256
50°	5526	6831	5526
55°	2838	4559	3097
60°	3256	3256	3256
65°	3619	3619	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	3978	3978	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	23.0
10°-20°	208.8	42.2
20°-30°	113.2	22.9
30°-40°	36.3	7.3
40°-50°	12.4	2.5
50°-60°	4.3	0.9
60°-70°	3.2	0.6
70°-80°	2.3	0.5
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°	435.7	88.0
0°-40°	472.0	95.4
0°-60°	488.7	98.8
0°-90°	494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1260	1252	1250	1263	1262	114
15°	767	774	772	776	770	208
25°	232	243	249	232	220	111
35°	52	54	58	52	49	35
45°	15	16	15	15	15	12
55°	3	4	5	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.6	1321.6	1321.6	1321.6	1321.6
1°	1319.4	1309.9	1308.5	1320.8	1318.0
2°	1308.8	1299.9	1298.5	1310.8	1308.3
3°	1297.2	1289.1	1286.3	1299.1	1297.4
4°	1281.6	1274.1	1271.6	1284.4	1283.0
5°	1260.0	1252.2	1250.5	1263.0	1261.9
6°	1233.3	1226.9	1223.9	1236.4	1234.1
7°	1200.0	1194.2	1190.8	1200.0	1201.1
8°	1156.7	1153.9	1150.0	1159.2	1159.2
9°	1110.6	1108.1	1103.9	1112.2	1112.2
10°	1061.2	1059.5	1054.5	1062.3	1062.3
11°	1007.0	1006.2	1002.6	1009.0	1009.0
12°	950.1	952.0	948.7	954.3	952.3
13°	893.2	892.4	892.6	896.8	893.7
14°	828.8	833.8	834.6	837.1	832.4
15°	767.1	773.5	772.1	775.7	769.6
16°	704.1	711.3	711.1	711.9	706.1
17°	645.2	649.4	649.7	648.9	641.6
18°	582.5	588.3	588.3	586.9	578.3
19°	521.1	525.6	528.6	525.6	515.6
20°	465.9	468.9	474.5	466.7	455.6
21°	412.9	415.6	420.4	411.2	399.0
22°	362.0	365.7	370.1	359.6	346.8
23°	314.6	322.9	324.6	310.1	299.3
24°	271.0	280.4	283.2	268.5	257.1
25°	232.1	242.7	249.0	231.8	220.5
26°	198.5	208.8	216.6	199.3	188.5
27°	169.1	179.9	188.0	171.9	161.6
28°	143.8	154.4	162.7	147.7	138.0
29°	124.9	131.0	139.4	126.9	118.0
30°	106.3	113.0	121.9	109.1	101.3
32.5°	73.0	76.6	83.6	75.8	69.7
35°	51.9	54.1	57.5	52.2	48.6
37.5°	36.9	38.0	40.0	36.9	35.0
40°	27.2	27.8	28.6	26.9	25.8
42.5°	20.3	20.5	20.5	20.0	19.4
45°	15.3	15.5	15.3	15.3	14.7
47.5°	11.1	11.9	11.7	11.7	10.8
50°	7.2	8.9	8.9	8.6	7.2
52.5°	4.4	6.1	6.9	6.1	4.7
55°	3.3	4.2	5.3	4.2	3.6
57.5°	3.3	3.3	3.9	3.3	3.3
60°	3.3	3.3	3.3	3.3	3.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.5	2.8	2.5
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
82.5°	0.8	0.8	0.8	1.1	0.8
85°	0.6	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



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







62.5°	3.3	3.3	3.3	3.3	3.3
65°	3.1	3.3	3.1	3.3	3.1



(END OF REPORT)