

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: P283464

Luminaire Tested: **LDA2B058027D010 EU2B05FL408027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283464
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: LDA2B058027D010 EU2B05FL408027 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 625.1 lumens
Efficiency: N/A
Efficacy: 89.3 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

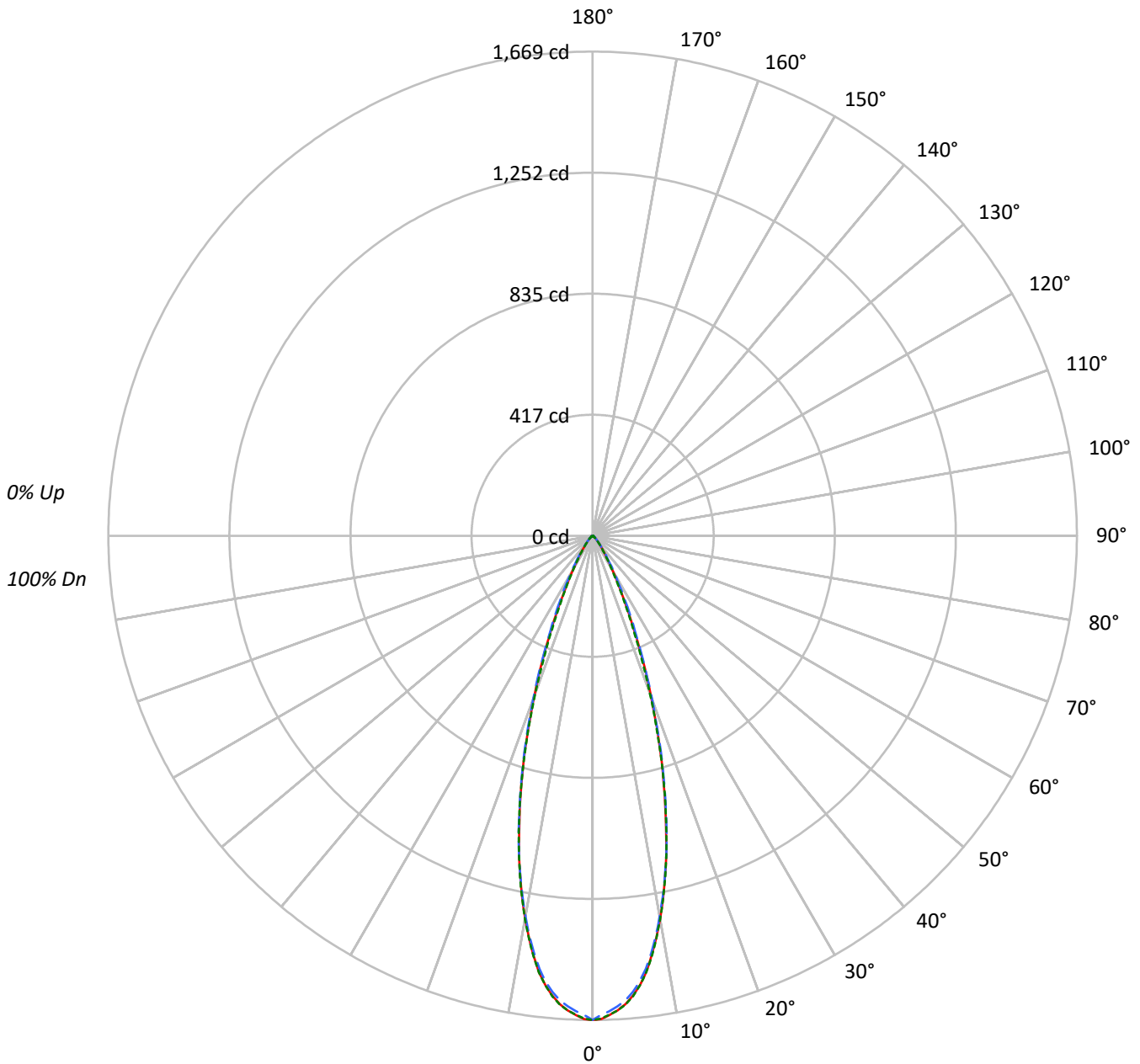
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	823519	823519	823519
5°	788135	782192	789324
10°	671454	667246	672155
15°	494881	498099	496515
20°	308925	314647	302152
25°	159608	171257	151551
30°	76509	87675	72920
35°	39510	43726	36980
40°	22155	23250	20996
45°	13466	13466	12978
50°	6985	8596	6985
55°	3613	5763	3957
60°	4144	4144	4144
65°	4553	4553	4553
70°	5626	5049	5626
75°	5337	5337	5337
80°	5114	5114	5114
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	23.0
10°-20°	263.7	42.2
20°-30°	143.0	22.9
30°-40°	45.9	7.3
40°-50°	15.6	2.5
50°-60°	5.5	0.9
60°-70°	4.0	0.6
70°-80°	2.9	0.5
80°-90°	0.9	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°	550.3	88.0
0°-40°	596.2	95.4
0°-60°	617.3	98.8
0°-90°	625.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	625.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1591	1582	1579	1595	1594	144
15°	969	977	975	980	972	263
25°	293	306	315	293	278	141
35°	66	68	73	66	61	44
45°	19	20	19	19	19	15
55°	4	5	7	5	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1669.2	1669.2	1669.2	1669.2	1669.2
1°	1666.4	1654.5	1652.7	1668.2	1664.7
2°	1653.1	1641.9	1640.1	1655.5	1652.4
3°	1638.4	1628.2	1624.7	1640.8	1638.7
4°	1618.7	1609.2	1606.1	1622.2	1620.5
5°	1591.4	1581.5	1579.4	1595.2	1593.8
6°	1557.7	1549.6	1545.8	1561.6	1558.8
7°	1515.6	1508.3	1504.0	1515.6	1517.0
8°	1460.9	1457.4	1452.5	1464.1	1464.1
9°	1402.7	1399.5	1394.3	1404.8	1404.8
10°	1340.3	1338.2	1331.9	1341.7	1341.7
11°	1271.9	1270.8	1266.3	1274.4	1274.4
12°	1200.0	1202.5	1198.3	1205.3	1202.8
13°	1128.1	1127.1	1127.4	1132.7	1128.8
14°	1046.8	1053.1	1054.1	1057.3	1051.3
15°	968.9	977.0	975.2	979.8	972.1
16°	889.3	898.4	898.1	899.1	891.8
17°	815.0	820.2	820.6	819.5	810.4
18°	735.7	743.1	743.1	741.3	730.5
19°	658.2	663.8	667.7	663.8	651.2
20°	588.4	592.3	599.3	589.5	575.5
21°	521.5	525.0	530.9	519.3	503.9
22°	457.3	461.8	467.4	454.1	438.0
23°	397.3	407.8	409.9	391.7	378.0
24°	342.3	354.2	357.7	339.1	324.7
25°	293.2	306.5	314.6	292.8	278.4
26°	250.7	263.7	273.5	251.8	238.1
27°	213.6	227.2	237.4	217.1	204.1
28°	181.6	195.0	205.5	186.6	174.3
29°	157.8	165.5	176.0	160.3	149.0
30°	134.3	142.7	153.9	137.8	128.0
32.5°	92.2	96.8	105.6	95.7	88.0
35°	65.6	68.4	72.6	65.9	61.4
37.5°	46.6	48.0	50.5	46.6	44.2
40°	34.4	35.1	36.1	34.0	32.6
42.5°	25.6	25.9	25.9	25.2	24.5
45°	19.3	19.6	19.3	19.3	18.6
47.5°	14.0	15.1	14.7	14.7	13.7
50°	9.1	11.2	11.2	10.9	9.1
52.5°	5.6	7.7	8.8	7.7	6.0
55°	4.2	5.3	6.7	5.3	4.6
57.5°	4.2	4.2	4.9	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.9	3.9	3.9	3.9	3.9
70°	3.9	3.9	3.5	3.9	3.9
72.5°	3.5	3.5	3.2	3.5	3.2
75°	2.8	2.8	2.8	2.8	2.8
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.1	1.1	1.1	1.4	1.1
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.2	4.2	4.2	4.2	4.2
65°	3.9	4.2	3.9	4.2	3.9



(END OF REPORT)