

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: P283486

Luminaire Tested: **LDA2B058050D010 EU2B05FL408050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283486
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: LDA2B058050D010 EU2B05FL408050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 724.6 lumens
Efficiency: N/A
Efficacy: 103.5 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

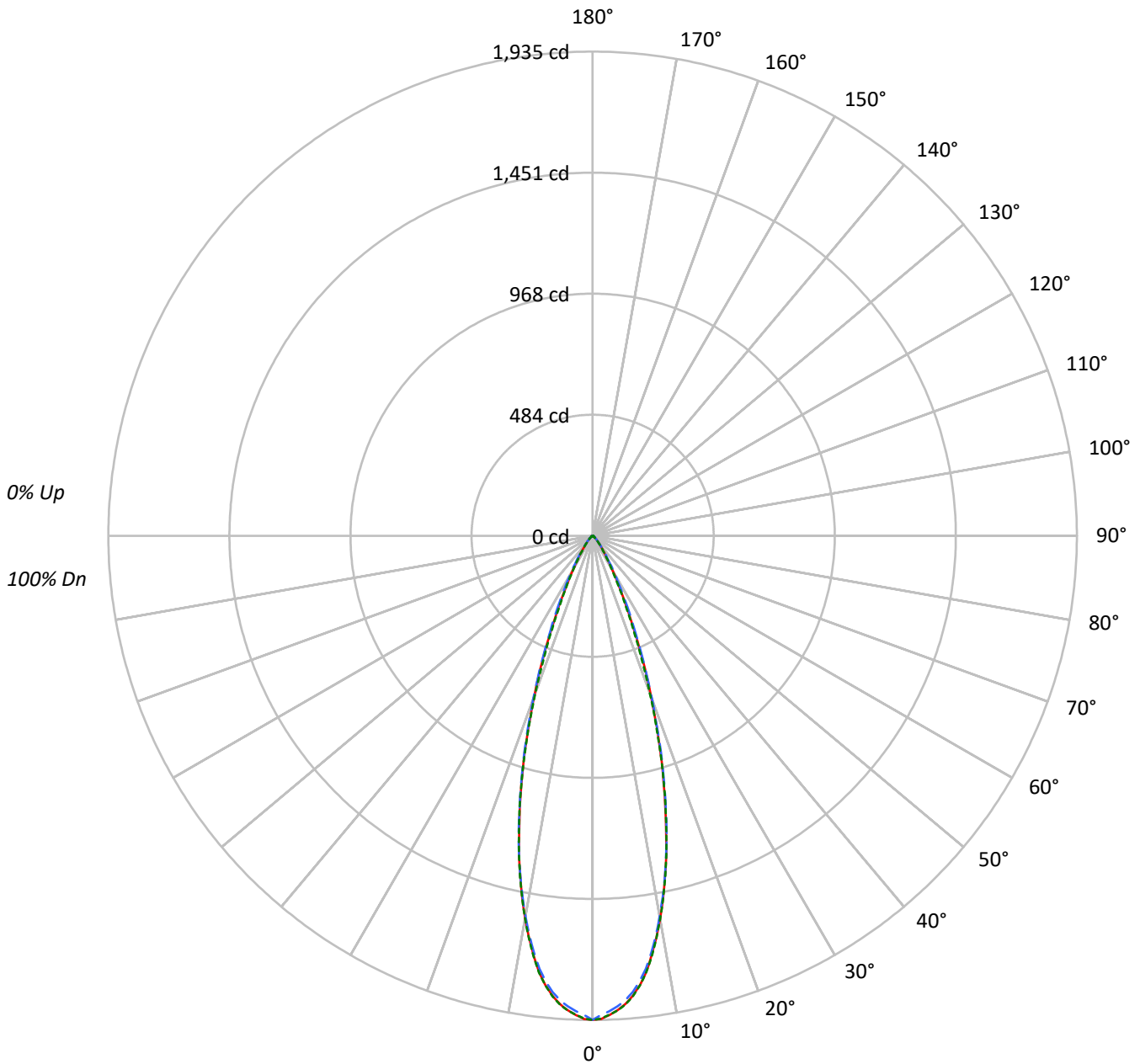
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	954606	954606	954606
5°	913581	906697	914968
10°	778311	773452	779113
15°	573641	577421	575531
20°	358119	364735	350244
25°	184975	198475	175721
30°	88700	101632	84541
35°	45774	50652	42822
40°	25633	26985	24345
45°	15629	15629	15001
50°	8136	9978	8136
55°	4215	6623	4559
60°	4835	4835	4835
65°	5253	5253	5253
70°	6491	5914	6491
75°	6290	6290	6290
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	23.0
10°-20°	305.7	42.2
20°-30°	165.7	22.9
30°-40°	53.2	7.3
40°-50°	18.2	2.5
50°-60°	6.4	0.9
60°-70°	4.6	0.6
70°-80°	3.4	0.5
80°-90°	1.0	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°	637.9	88.0
0°-40°	691.1	95.4
0°-60°	715.6	98.8
0°-90°	724.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1845	1833	1831	1849	1848	167
15°	1123	1132	1130	1136	1127	304
25°	340	355	365	339	323	163
35°	76	79	84	76	71	51
45°	22	23	22	22	22	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
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°	1934.9	1934.9	1934.9	1934.9	1934.9
1°	1931.6	1917.8	1915.8	1933.7	1929.6
2°	1916.2	1903.2	1901.2	1919.0	1915.4
3°	1899.1	1887.3	1883.3	1902.0	1899.5
4°	1876.4	1865.4	1861.7	1880.4	1878.4
5°	1844.7	1833.3	1830.8	1849.1	1847.5
6°	1805.6	1796.3	1791.8	1810.1	1806.9
7°	1756.9	1748.3	1743.4	1756.9	1758.5
8°	1693.4	1689.4	1683.7	1697.1	1697.1
9°	1626.0	1622.3	1616.2	1628.4	1628.4
10°	1553.6	1551.2	1543.9	1555.2	1555.2
11°	1474.3	1473.1	1467.8	1477.2	1477.2
12°	1391.0	1393.9	1389.0	1397.1	1394.3
13°	1307.7	1306.5	1306.9	1313.0	1308.5
14°	1213.4	1220.7	1221.9	1225.6	1218.7
15°	1123.1	1132.5	1130.5	1135.7	1126.8
16°	1030.9	1041.4	1041.0	1042.2	1033.7
17°	944.7	950.8	951.2	950.0	939.4
18°	852.8	861.4	861.4	859.3	846.7
19°	763.0	769.5	774.0	769.5	754.9
20°	682.1	686.6	694.7	683.3	667.1
21°	604.5	608.5	615.4	602.0	584.1
22°	530.1	535.3	541.9	526.4	507.7
23°	460.6	472.7	475.2	454.0	438.2
24°	396.7	410.6	414.6	393.1	376.4
25°	339.8	355.3	364.6	339.4	322.8
26°	290.6	305.7	317.1	291.9	276.0
27°	247.6	263.4	275.2	251.6	236.6
28°	210.6	226.0	238.2	216.3	202.0
29°	182.9	191.9	204.1	185.8	172.8
30°	155.7	165.4	178.4	159.8	148.4
32.5°	106.9	112.2	122.4	111.0	102.0
35°	76.0	79.3	84.1	76.4	71.1
37.5°	54.1	55.7	58.5	54.1	51.2
40°	39.8	40.6	41.9	39.4	37.8
42.5°	29.7	30.1	30.1	29.3	28.5
45°	22.4	22.8	22.4	22.4	21.5
47.5°	16.3	17.5	17.1	17.1	15.9
50°	10.6	13.0	13.0	12.6	10.6
52.5°	6.5	8.9	10.2	8.9	6.9
55°	4.9	6.1	7.7	6.1	5.3
57.5°	4.9	4.9	5.7	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.1	4.5	4.5
72.5°	4.1	4.1	3.7	4.1	3.7
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	1.2
85°	0.8	0.8	0.8	0.8	0.8
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°	4.9	4.9	4.9	4.9	4.9
65°	4.5	4.9	4.5	4.9	4.5



(END OF REPORT)