

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: P283485

Luminaire Tested: **LDA2B058050D010 EU2B05FL408050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283485
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 709.4 lumens
Efficiency: N/A
Efficacy: 101.3 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

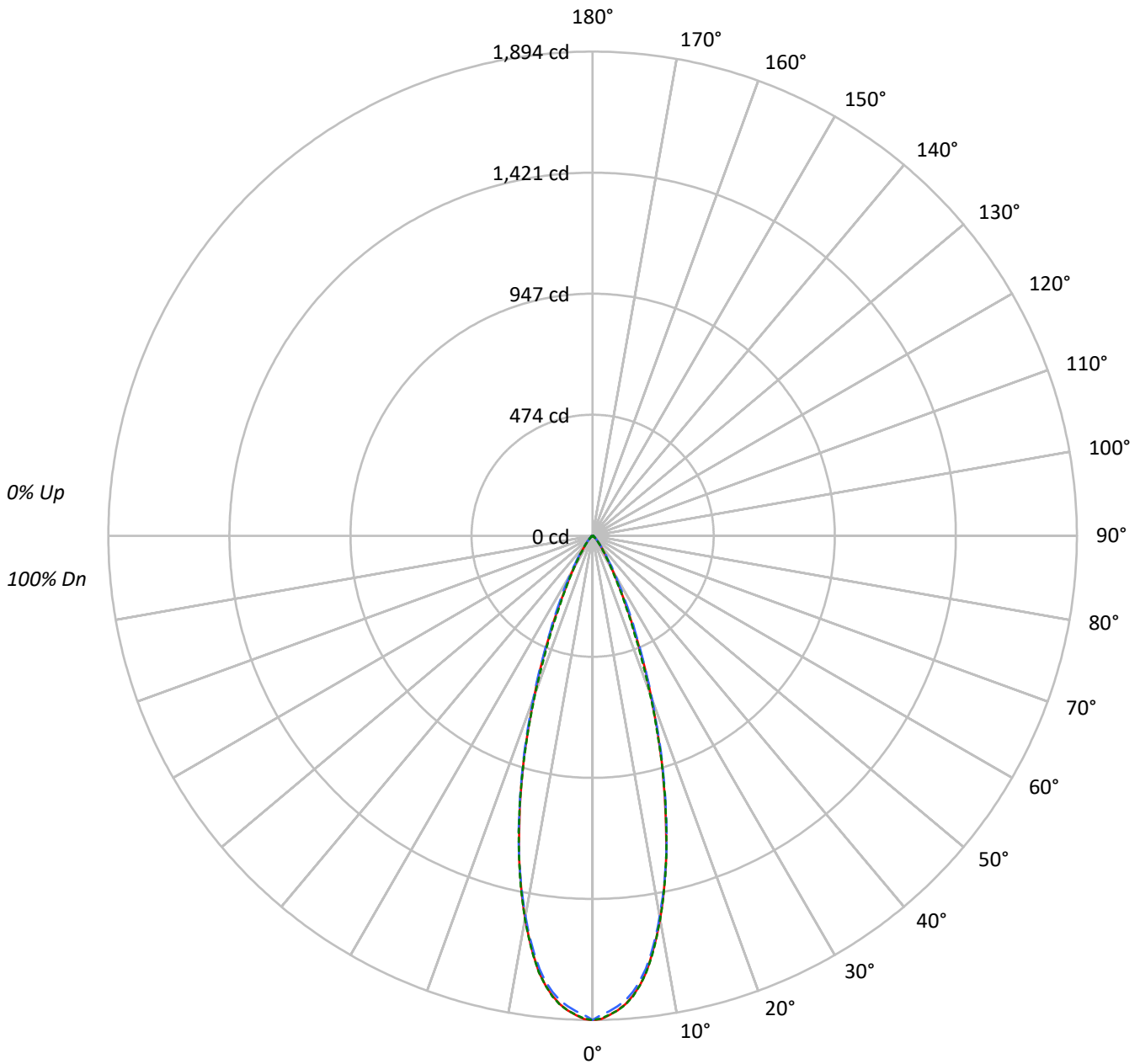
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	934575	934575	934575
5°	894365	887680	895752
10°	761979	757170	762781
15°	561587	565264	563426
20°	350611	357069	342841
25°	181110	194338	172019
30°	86820	99524	82775
35°	44810	49628	41919
40°	25117	26406	23829
45°	15280	15280	14722
50°	7906	9748	7906
55°	4129	6537	4473
60°	4736	4736	4736
65°	5137	5137	5137
70°	6347	5770	6347
75°	6100	6100	6100
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	23.0
10°-20°	299.3	42.2
20°-30°	162.3	22.9
30°-40°	52.1	7.3
40°-50°	17.8	2.5
50°-60°	6.2	0.9
60°-70°	4.5	0.6
70°-80°	3.3	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°	624.5	88.0
0°-40°	676.6	95.4
0°-60°	700.5	98.8
0°-90°	709.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1806	1795	1792	1810	1809	163
15°	1100	1109	1107	1112	1103	298
25°	333	348	357	332	316	159
35°	74	78	82	75	70	50
45°	22	22	22	22	21	17
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°	1894.3	1894.3	1894.3	1894.3	1894.3
1°	1891.1	1877.6	1875.6	1893.1	1889.1
2°	1876.0	1863.2	1861.2	1878.7	1875.2
3°	1859.2	1847.7	1843.7	1862.0	1859.6
4°	1837.0	1826.2	1822.6	1840.9	1838.9
5°	1805.9	1794.8	1792.4	1810.3	1808.7
6°	1767.7	1758.6	1754.2	1772.1	1768.9
7°	1720.0	1711.6	1706.8	1720.0	1721.6
8°	1657.9	1653.9	1648.3	1661.5	1661.5
9°	1591.8	1588.2	1582.3	1594.2	1594.2
10°	1521.0	1518.6	1511.4	1522.6	1522.6
11°	1443.4	1442.2	1437.0	1446.2	1446.2
12°	1361.8	1364.6	1359.8	1367.8	1365.0
13°	1280.2	1279.0	1279.4	1285.4	1281.0
14°	1187.9	1195.1	1196.3	1199.8	1193.1
15°	1099.5	1108.7	1106.7	1111.9	1103.1
16°	1009.2	1019.6	1019.2	1020.4	1012.0
17°	924.8	930.8	931.2	930.0	919.7
18°	834.9	843.3	843.3	841.3	828.9
19°	747.0	753.3	757.7	753.3	739.0
20°	667.8	672.1	680.1	669.0	653.0
21°	591.8	595.7	602.5	589.4	571.9
22°	518.9	524.1	530.5	515.4	497.0
23°	450.9	462.8	465.2	444.5	429.0
24°	388.4	401.9	405.9	384.8	368.5
25°	332.7	347.8	357.0	332.3	316.0
26°	284.5	299.3	310.4	285.7	270.2
27°	242.4	257.9	269.4	246.3	231.6
28°	206.1	221.3	233.2	211.7	197.8
29°	179.1	187.8	199.8	181.9	169.1
30°	152.4	162.0	174.7	156.4	145.3
32.5°	104.7	109.8	119.8	108.6	99.9
35°	74.4	77.6	82.4	74.8	69.6
37.5°	52.9	54.5	57.3	52.9	50.1
40°	39.0	39.8	41.0	38.6	37.0
42.5°	29.1	29.4	29.4	28.7	27.9
45°	21.9	22.3	21.9	21.9	21.1
47.5°	15.9	17.1	16.7	16.7	15.5
50°	10.3	12.7	12.7	12.3	10.3
52.5°	6.4	8.8	9.9	8.8	6.8
55°	4.8	6.0	7.6	6.0	5.2
57.5°	4.8	4.8	5.6	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.0	4.4	4.4
72.5°	4.0	4.0	3.6	4.0	3.6
75°	3.2	3.2	3.2	3.2	3.2
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°	4.8	4.8	4.8	4.8	4.8
65°	4.4	4.8	4.4	4.8	4.4



(END OF REPORT)