

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: P283472

Luminaire Tested: **LDA2B058035D010 EU2B05FL408035 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283472
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: LDA2B058035D010 EU2B05FL408035 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 708.6 lumens
Efficiency: N/A
Efficacy: 101.2 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

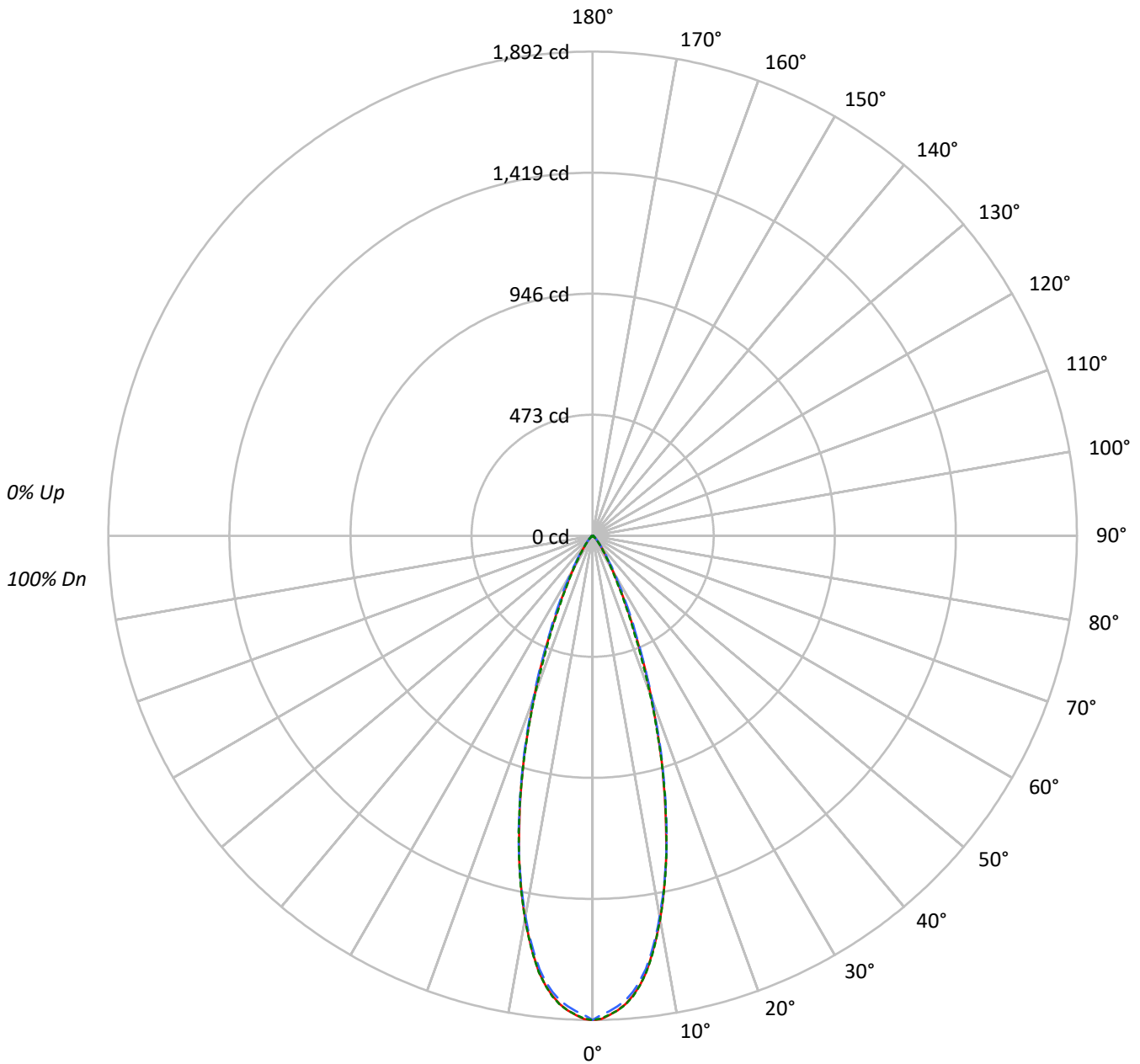
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	933589	933589	933589
5°	893424	886739	894811
10°	761178	756419	761979
15°	561025	564703	562864
20°	350244	356702	342526
25°	180892	194120	171801
30°	86763	99410	82661
35°	44750	49568	41919
40°	25117	26341	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°	162.8	23.0
10°-20°	299.0	42.2
20°-30°	162.1	22.9
30°-40°	52.0	7.3
40°-50°	17.7	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°	623.8	88.0
0°-40°	675.9	95.4
0°-60°	699.8	98.8
0°-90°	708.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1804	1793	1790	1808	1807	163
15°	1098	1108	1106	1111	1102	298
25°	332	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°	1892.3	1892.3	1892.3	1892.3	1892.3
1°	1889.1	1875.6	1873.6	1891.1	1887.1
2°	1874.0	1861.3	1859.3	1876.8	1873.2
3°	1857.3	1845.8	1841.8	1860.1	1857.7
4°	1835.1	1824.3	1820.7	1839.0	1837.0
5°	1804.0	1792.9	1790.5	1808.4	1806.8
6°	1765.9	1756.7	1752.4	1770.3	1767.1
7°	1718.2	1709.8	1705.1	1718.2	1719.8
8°	1656.2	1652.2	1646.6	1659.7	1659.7
9°	1590.2	1586.6	1580.6	1592.6	1592.6
10°	1519.4	1517.0	1509.9	1521.0	1521.0
11°	1441.9	1440.7	1435.5	1444.7	1444.7
12°	1360.4	1363.2	1358.4	1366.4	1363.6
13°	1278.9	1277.7	1278.1	1284.1	1279.7
14°	1186.7	1193.8	1195.0	1198.6	1191.8
15°	1098.4	1107.6	1105.6	1110.7	1102.0
16°	1008.2	1018.5	1018.1	1019.3	1011.0
17°	923.9	929.9	930.2	929.1	918.7
18°	834.0	842.4	842.4	840.4	828.1
19°	746.2	752.5	756.9	752.5	738.2
20°	667.1	671.4	679.4	668.3	652.4
21°	591.1	595.1	601.9	588.8	571.3
22°	518.4	523.6	529.9	514.8	496.5
23°	450.4	462.3	464.7	444.1	428.6
24°	388.0	401.5	405.5	384.4	368.1
25°	332.3	347.5	356.6	331.9	315.6
26°	284.2	299.0	310.1	285.4	269.9
27°	242.1	257.6	269.1	246.1	231.4
28°	205.9	221.0	233.0	211.5	197.6
29°	178.9	187.6	199.6	181.7	169.0
30°	152.3	161.8	174.5	156.2	145.1
32.5°	104.6	109.7	119.7	108.5	99.8
35°	74.3	77.5	82.3	74.7	69.6
37.5°	52.9	54.5	57.2	52.9	50.1
40°	39.0	39.8	40.9	38.6	37.0
42.5°	29.0	29.4	29.4	28.6	27.8
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	8.7	9.9	8.7	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)