

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: P283497

Luminaire Tested: **LDA2B059027D010 EU2B05FL409027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283497
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: LDA2B059027D010 EU2B05FL409027 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: 524.5 lumens
Efficiency: N/A
Efficacy: 74.9 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

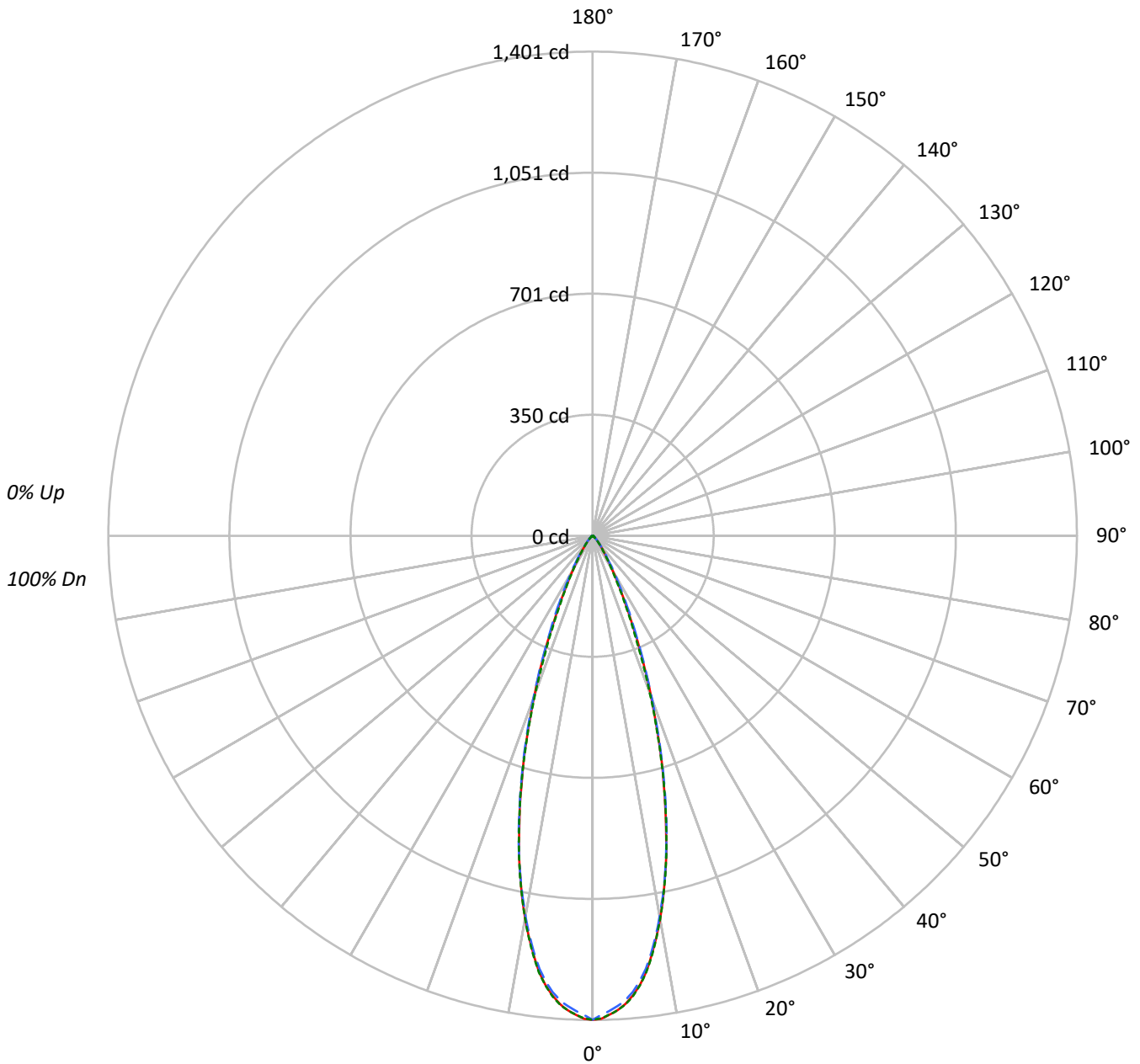
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	691052	691052	691052
5°	661302	656350	662342
10°	563444	559887	563995
15°	415253	417960	416632
20°	259257	264035	253534
25°	133914	143658	127164
30°	64204	73603	61184
35°	33126	36679	31018
40°	18548	19514	17647
45°	11303	11303	10884
50°	5910	7215	5910
55°	3011	4817	3269
60°	3454	3454	3454
65°	3736	3736	3736
70°	4616	4183	4616
75°	4575	4575	4575
80°	4262	4262	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	23.0
10°-20°	221.3	42.2
20°-30°	120.0	22.9
30°-40°	38.5	7.3
40°-50°	13.1	2.5
50°-60°	4.6	0.9
60°-70°	3.3	0.6
70°-80°	2.5	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°	461.8	88.0
0°-40°	500.3	95.4
0°-60°	518.0	98.8
0°-90°	524.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	524.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1335	1327	1325	1339	1337	121
15°	813	820	818	822	816	220
25°	246	257	264	246	234	118
35°	55	57	61	55	52	37
45°	16	16	16	16	16	13
55°	4	4	6	4	4	4
65°	3	4	3	4	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°	1400.7	1400.7	1400.7	1400.7	1400.7
1°	1398.3	1388.3	1386.8	1399.8	1396.8
2°	1387.1	1377.7	1376.2	1389.2	1386.5
3°	1374.8	1366.2	1363.3	1376.8	1375.1
4°	1358.3	1350.3	1347.7	1361.2	1359.8
5°	1335.3	1327.1	1325.3	1338.6	1337.4
6°	1307.1	1300.3	1297.1	1310.3	1308.0
7°	1271.8	1265.6	1262.1	1271.8	1273.0
8°	1225.9	1222.9	1218.8	1228.5	1228.5
9°	1177.0	1174.4	1170.0	1178.8	1178.8
10°	1124.7	1122.9	1117.6	1125.8	1125.8
11°	1067.3	1066.4	1062.6	1069.3	1069.3
12°	1006.9	1009.0	1005.5	1011.4	1009.3
13°	946.6	945.7	946.0	950.5	947.2
14°	878.4	883.7	884.5	887.2	882.2
15°	813.0	819.8	818.3	822.2	815.7
16°	746.2	753.9	753.6	754.5	748.3
17°	683.9	688.3	688.6	687.7	680.0
18°	617.4	623.5	623.5	622.1	612.9
19°	552.3	557.0	560.3	557.0	546.4
20°	493.8	497.0	502.9	494.6	482.9
21°	437.6	440.5	445.5	435.8	422.8
22°	383.7	387.5	392.2	381.1	367.5
23°	333.4	342.2	344.0	328.7	317.2
24°	287.2	297.2	300.1	284.5	272.5
25°	246.0	257.2	263.9	245.7	233.6
26°	210.4	221.3	229.5	211.3	199.8
27°	179.2	190.7	199.2	182.1	171.3
28°	152.4	163.6	172.4	156.5	146.2
29°	132.4	138.9	147.7	134.5	125.1
30°	112.7	119.8	129.2	115.6	107.4
32.5°	77.4	81.2	88.6	80.3	73.9
35°	55.0	57.4	60.9	55.3	51.5
37.5°	39.1	40.3	42.4	39.1	37.1
40°	28.8	29.4	30.3	28.5	27.4
42.5°	21.5	21.8	21.8	21.2	20.6
45°	16.2	16.5	16.2	16.2	15.6
47.5°	11.8	12.7	12.4	12.4	11.5
50°	7.7	9.4	9.4	9.1	7.7
52.5°	4.7	6.5	7.4	6.5	5.0
55°	3.5	4.4	5.6	4.4	3.8
57.5°	3.5	3.5	4.1	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.9	3.2	3.2
72.5°	2.9	2.9	2.6	2.9	2.6
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.5	1.5	1.5
82.5°	0.9	0.9	0.9	1.2	0.9
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°	3.5	3.5	3.5	3.5	3.5
65°	3.2	3.5	3.2	3.5	3.2



(END OF REPORT)