

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: P283534

Luminaire Tested: **LDA2B059730D010 EU2B05FL409730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283534
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: LDA2B059730D010 EU2B05FL409730 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: 513.1 lumens
Efficiency: N/A
Efficacy: 73.3 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

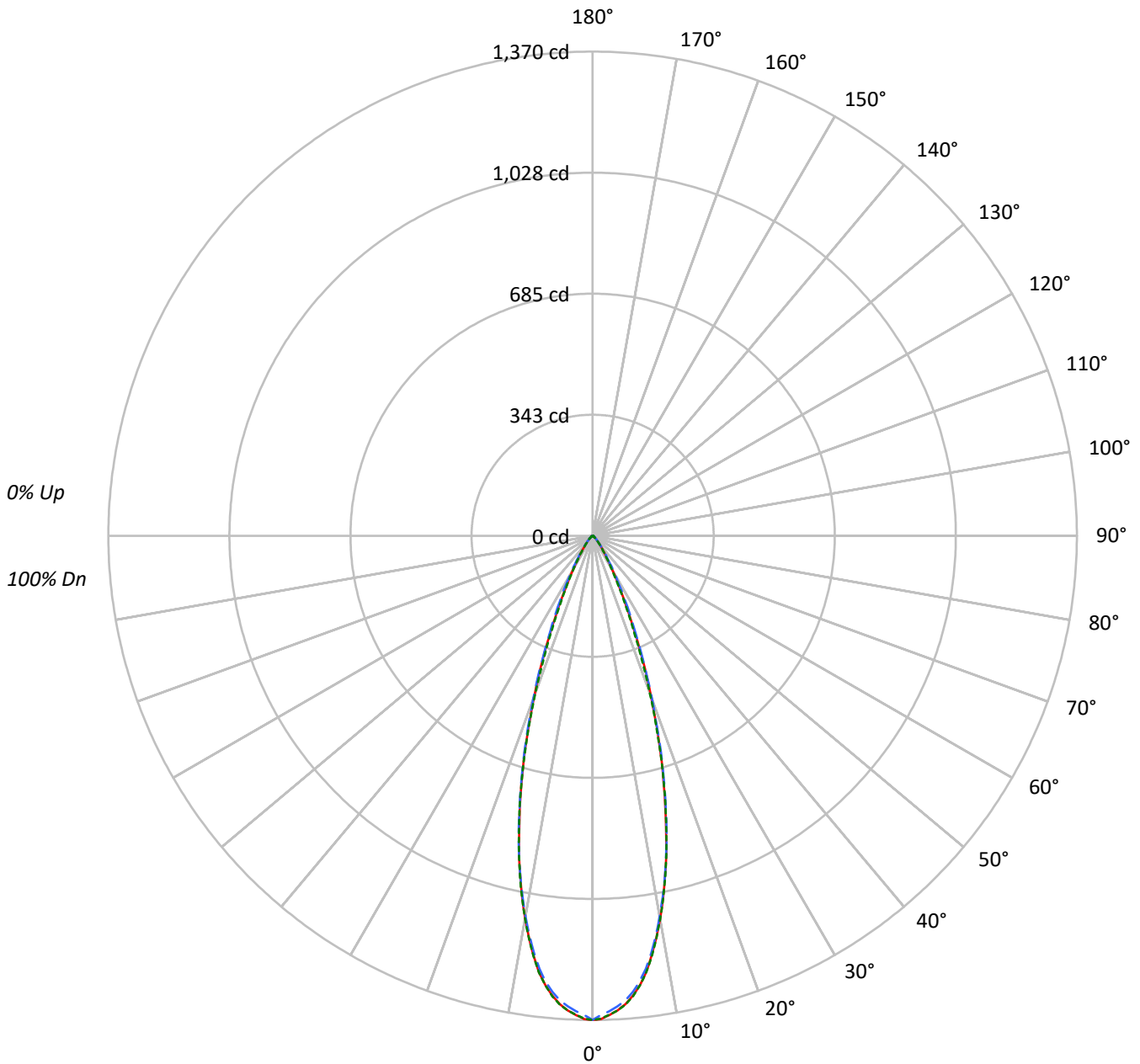
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	675955	675955	675955
5°	646891	642037	647881
10°	551120	547663	551671
15°	406212	408868	407540
20°	253587	258260	247969
25°	130974	140555	124387
30°	62779	72008	59874
35°	32403	35896	30355
40°	18162	19064	17260
45°	11024	11024	10675
50°	5757	7061	5757
55°	3011	4731	3183
60°	3454	3454	3454
65°	3736	3736	3736
70°	4616	4183	4616
75°	4384	4384	4384
80°	3978	3978	3978
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	23.0
10°-20°	216.5	42.2
20°-30°	117.4	22.9
30°-40°	37.7	7.3
40°-50°	12.8	2.5
50°-60°	4.5	0.9
60°-70°	3.3	0.6
70°-80°	2.4	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°	451.7	88.0
0°-40°	489.3	95.4
0°-60°	506.7	98.8
0°-90°	513.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1306	1298	1296	1309	1308	118
15°	795	802	800	804	798	216
25°	241	252	258	240	228	115
35°	54	56	60	54	50	36
45°	16	16	16	16	15	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°	1370.1	1370.1	1370.1	1370.1	1370.1
1°	1367.8	1358.0	1356.6	1369.2	1366.3
2°	1356.8	1347.6	1346.2	1358.9	1356.3
3°	1344.8	1336.4	1333.5	1346.8	1345.0
4°	1328.6	1320.9	1318.3	1331.5	1330.1
5°	1306.2	1298.1	1296.4	1309.3	1308.2
6°	1278.6	1271.9	1268.8	1281.7	1279.4
7°	1244.0	1238.0	1234.5	1244.0	1245.2
8°	1199.1	1196.2	1192.2	1201.7	1201.7
9°	1151.3	1148.7	1144.4	1153.1	1153.1
10°	1100.1	1098.4	1093.2	1101.2	1101.2
11°	1044.0	1043.1	1039.4	1046.0	1046.0
12°	985.0	987.0	983.5	989.3	987.3
13°	926.0	925.1	925.4	929.7	926.5
14°	859.2	864.4	865.2	867.8	862.9
15°	795.3	801.9	800.5	804.2	797.9
16°	729.9	737.4	737.1	738.0	732.0
17°	668.9	673.2	673.5	672.7	665.2
18°	603.9	609.9	609.9	608.5	599.6
19°	540.3	544.9	548.0	544.9	534.5
20°	483.0	486.1	491.9	483.8	472.3
21°	428.0	430.9	435.8	426.3	413.6
22°	375.3	379.1	383.7	372.7	359.5
23°	326.1	334.7	336.5	321.5	310.3
24°	280.9	290.7	293.6	278.3	266.5
25°	240.6	251.6	258.2	240.3	228.5
26°	205.8	216.4	224.5	206.7	195.4
27°	175.3	186.5	194.9	178.2	167.5
28°	149.1	160.0	168.7	153.1	143.1
29°	129.5	135.9	144.5	131.5	122.3
30°	110.2	117.1	126.4	113.1	105.1
32.5°	75.7	79.4	86.6	78.6	72.2
35°	53.8	56.1	59.6	54.1	50.4
37.5°	38.3	39.4	41.4	38.3	36.3
40°	28.2	28.8	29.6	27.9	26.8
42.5°	21.0	21.3	21.3	20.7	20.1
45°	15.8	16.1	15.8	15.8	15.3
47.5°	11.5	12.4	12.1	12.1	11.2
50°	7.5	9.2	9.2	8.9	7.5
52.5°	4.6	6.3	7.2	6.3	4.9
55°	3.5	4.3	5.5	4.3	3.7
57.5°	3.5	3.5	4.0	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°	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.4	1.4	1.4	1.4	1.4
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)