

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: P282333

Luminaire Tested: **LDA2B159035D010 EU2B15NFL259035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159035D010 EU2B15NFL259035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1093.7 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

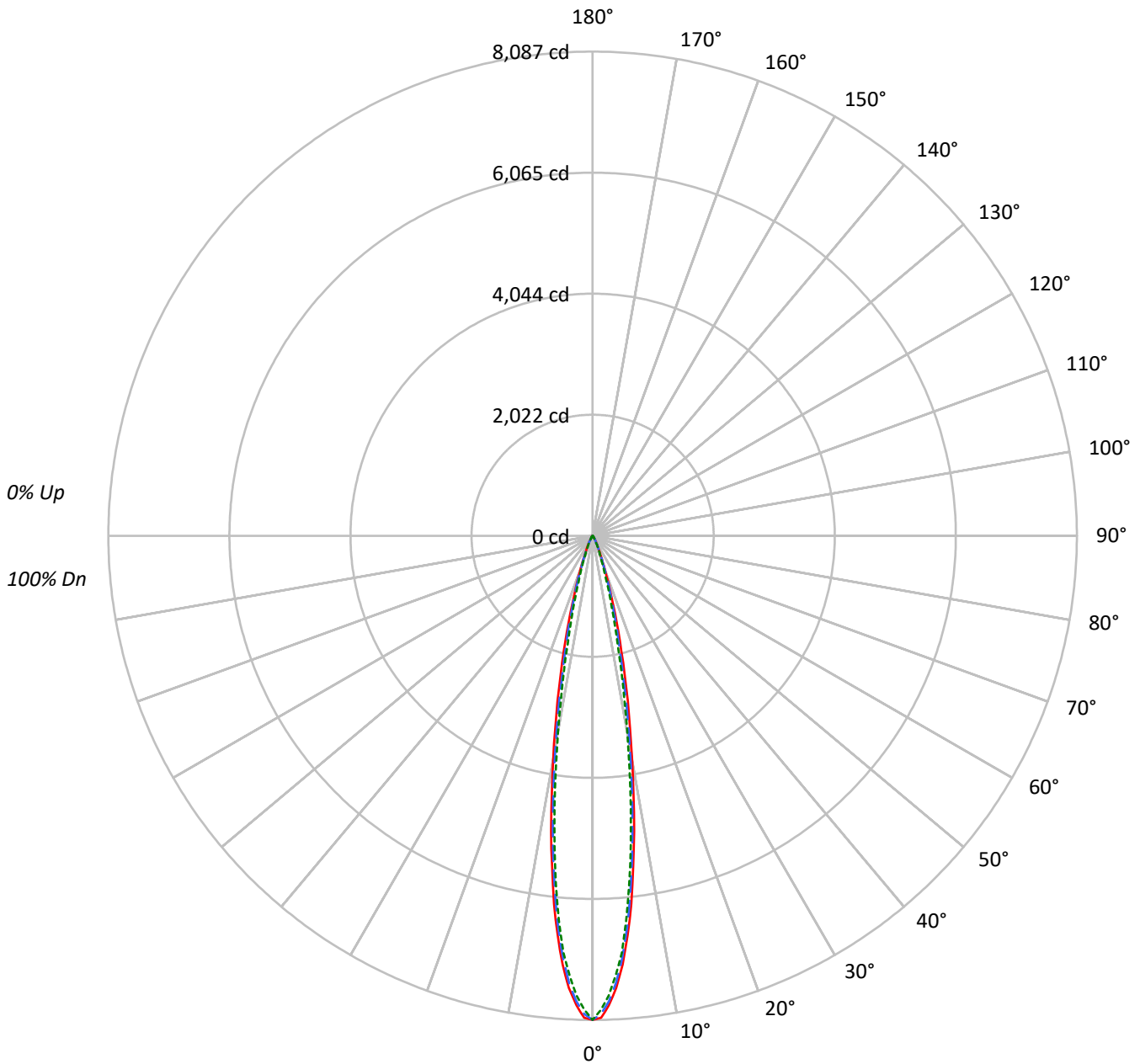
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3989718	3989718	3989718
5°	3319884	3259018	3193249
10°	1901592	1784415	1665384
15°	845777	751183	629468
20°	306824	288501	228543
25°	117800	110016	94719
30°	50816	47284	41929
35°	24031	24031	19936
40°	12044	12430	10047
45°	6977	6559	6070
50°	4759	4298	4298
55°	3785	2666	3183
60°	3059	1875	2467
65°	2218	1401	2218
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.0	48.1
10°-20°	425.6	38.9
20°-30°	102.6	9.4
30°-40°	26.2	2.4
40°-50°	7.8	0.7
50°-60°	3.3	0.3
60°-70°	1.6	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	1054.2	96.4
0°-40°	1080.4	98.8
0°-60°	1091.5	99.8
0°-90°	1093.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8087	8087	8087	8087	8087	
5°	6704	6642	6581	6523	6448	542
15°	1656	1617	1471	1325	1232	472
25°	216	218	202	183	174	112
35°	40	40	40	36	33	28
45°	10	10	9	9	9	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8086.8	8086.8	8086.8	8086.8	8086.8
1°	8050.7	7994.5	7987.7	8022.6	7919.7
2°	7844.8	7804.9	7781.9	7802.4	7685.8
3°	7562.3	7523.6	7481.9	7482.5	7352.1
4°	7177.5	7146.9	7076.5	7055.2	6979.8
5°	6703.5	6641.7	6580.6	6523.2	6447.8
6°	6179.6	6099.7	6012.4	5927.0	5849.6
7°	5563.4	5510.4	5395.0	5278.3	5212.8
8°	4984.0	4898.5	4763.8	4617.8	4562.3
9°	4360.9	4299.8	4145.1	3975.4	3919.9
10°	3795.8	3732.2	3561.9	3372.9	3324.3
11°	3265.7	3205.8	3028.7	2830.3	2778.6
12°	2817.2	2732.4	2529.1	2356.9	2306.4
13°	2370.7	2312.7	2119.9	1949.7	1851.8
14°	1990.8	1942.8	1768.2	1618.5	1515.0
15°	1655.9	1616.6	1470.7	1324.7	1232.4
16°	1358.4	1334.1	1218.7	1077.7	1002.3
17°	1102.1	1079.6	1006.0	876.3	812.7
18°	890.0	886.9	825.8	713.5	656.8
19°	732.2	731.0	674.8	580.7	533.9
20°	584.4	592.5	549.5	467.1	435.3
21°	476.5	480.9	446.6	384.2	355.5
22°	387.9	391.1	368.6	317.5	301.9
23°	318.1	320.0	301.2	263.2	249.5
24°	262.0	263.2	246.4	219.5	207.7
25°	216.4	217.7	202.1	183.4	174.0
26°	179.6	180.9	167.2	154.1	144.7
27°	149.1	151.6	137.8	129.7	119.7
28°	127.2	127.9	115.4	110.4	101.0
29°	104.2	107.9	97.3	92.9	86.1
30°	89.2	91.1	83.0	79.8	73.6
32.5°	59.3	60.5	56.8	54.3	49.3
35°	39.9	40.5	39.9	36.2	33.1
37.5°	27.4	27.4	28.1	23.7	22.5
40°	18.7	18.7	19.3	16.2	15.6
42.5°	13.7	13.7	13.1	11.2	11.2
45°	10.0	10.0	9.4	8.7	8.7
47.5°	8.1	7.5	6.9	6.9	6.9
50°	6.2	6.2	5.6	5.0	5.6
52.5°	5.0	5.0	4.4	4.4	4.4
55°	4.4	3.7	3.1	3.1	3.7
57.5°	3.1	3.1	2.5	2.5	3.1
60°	3.1	2.5	1.9	2.5	2.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.9	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	2.5	1.9	1.9	1.9	1.9
65°	1.9	1.9	1.2	1.2	1.9



(END OF REPORT)