

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: P282176

Luminaire Tested: **LDA2B059050D010 EU2B05NFL259050 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282176
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: LDA2B059050D010 EU2B05NFL259050 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC
AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 641.7 lumens
Efficiency: N/A
Efficacy: 91.7 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

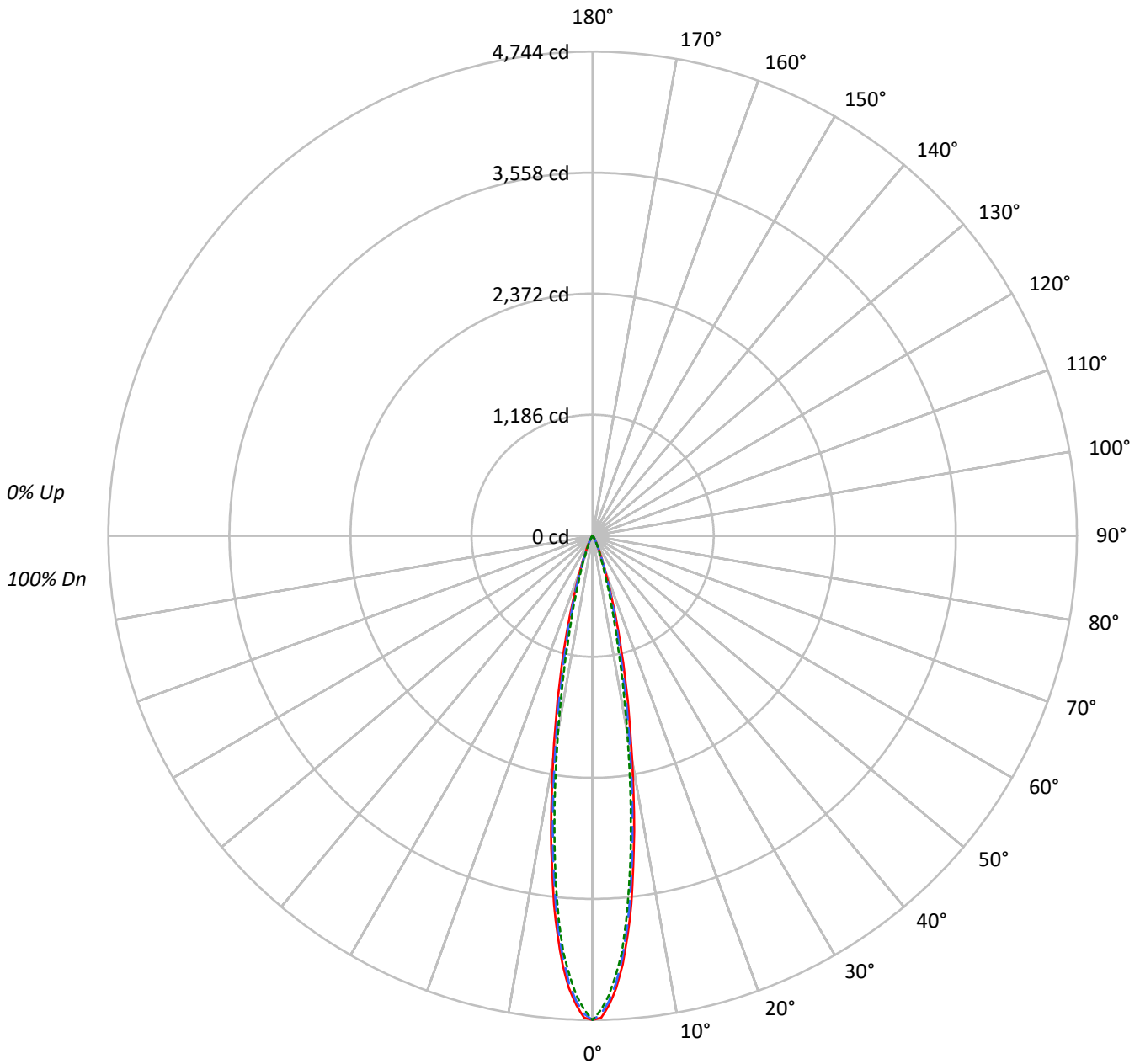
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2340755	2340755	2340755
5°	1947754	1912047	1873467
10°	1115666	1046933	977097
15°	496209	440689	369335
20°	180031	169268	134091
25°	69134	64562	55580
30°	29795	27744	24610
35°	14093	14093	11684
40°	7084	7278	5861
45°	4117	3837	3558
50°	2840	2533	2533
55°	2236	1548	1892
60°	1776	1085	1480
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	48.1
10°-20°	249.7	38.9
20°-30°	60.2	9.4
30°-40°	15.3	2.4
40°-50°	4.6	0.7
50°-60°	2.0	0.3
60°-70°	0.9	0.1
70°-80°	0.3	0.1
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°	618.5	96.4
0°-40°	633.9	98.8
0°-60°	640.4	99.8
0°-90°	641.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4744	4744	4744	4744	4744	
5°	3933	3897	3861	3827	3783	318
15°	972	948	863	777	723	277
25°	127	128	119	108	102	66
35°	23	24	23	21	19	16
45°	6	6	6	5	5	5
55°	3	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	4744.5	4744.5	4744.5	4744.5	4744.5
1°	4723.3	4690.4	4686.3	4706.8	4646.5
2°	4602.5	4579.1	4565.6	4577.7	4509.2
3°	4436.8	4414.1	4389.6	4389.9	4313.5
4°	4211.0	4193.1	4151.7	4139.3	4095.0
5°	3932.9	3896.7	3860.8	3827.2	3782.9
6°	3625.5	3578.7	3527.5	3477.3	3432.0
7°	3264.0	3232.9	3165.2	3096.8	3058.4
8°	2924.1	2873.9	2794.9	2709.3	2676.7
9°	2558.5	2522.7	2431.9	2332.4	2299.8
10°	2227.0	2189.7	2089.8	1978.9	1950.4
11°	1916.0	1880.8	1776.9	1660.5	1630.2
12°	1652.9	1603.1	1483.8	1382.8	1353.2
13°	1390.9	1356.8	1243.8	1143.9	1086.4
14°	1168.0	1139.8	1037.4	949.6	888.8
15°	971.5	948.5	862.8	777.2	723.1
16°	797.0	782.7	715.0	632.3	588.0
17°	646.6	633.4	590.2	514.1	476.8
18°	522.2	520.3	484.5	418.6	385.3
19°	429.6	428.9	395.9	340.7	313.2
20°	342.9	347.6	322.4	274.1	255.4
21°	279.6	282.1	262.0	225.4	208.6
22°	227.6	229.4	216.3	186.3	177.1
23°	186.6	187.7	176.7	154.4	146.4
24°	153.7	154.4	144.5	128.8	121.9
25°	127.0	127.7	118.6	107.6	102.1
26°	105.4	106.1	98.1	90.4	84.9
27°	87.5	88.9	80.9	76.1	70.3
28°	74.6	75.0	67.7	64.8	59.3
29°	61.1	63.3	57.1	54.5	50.5
30°	52.3	53.4	48.7	46.8	43.2
32.5°	34.8	35.5	33.3	31.8	28.9
35°	23.4	23.8	23.4	21.2	19.4
37.5°	16.1	16.1	16.5	13.9	13.2
40°	11.0	11.0	11.3	9.5	9.1
42.5°	8.1	8.1	7.7	6.6	6.6
45°	5.9	5.9	5.5	5.1	5.1
47.5°	4.8	4.4	4.0	4.0	4.0
50°	3.7	3.7	3.3	2.9	3.3
52.5°	2.9	2.9	2.6	2.6	2.6
55°	2.6	2.2	1.8	1.8	2.2
57.5°	1.8	1.8	1.5	1.5	1.8
60°	1.8	1.5	1.1	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)