

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: P282159

Luminaire Tested: **LDA2B059030D010 EU2B05NFL259030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282159
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: LDA2B059030D010 EU2B05NFL259030 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 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: 582.8 lumens
Efficiency: N/A
Efficacy: 83.3 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

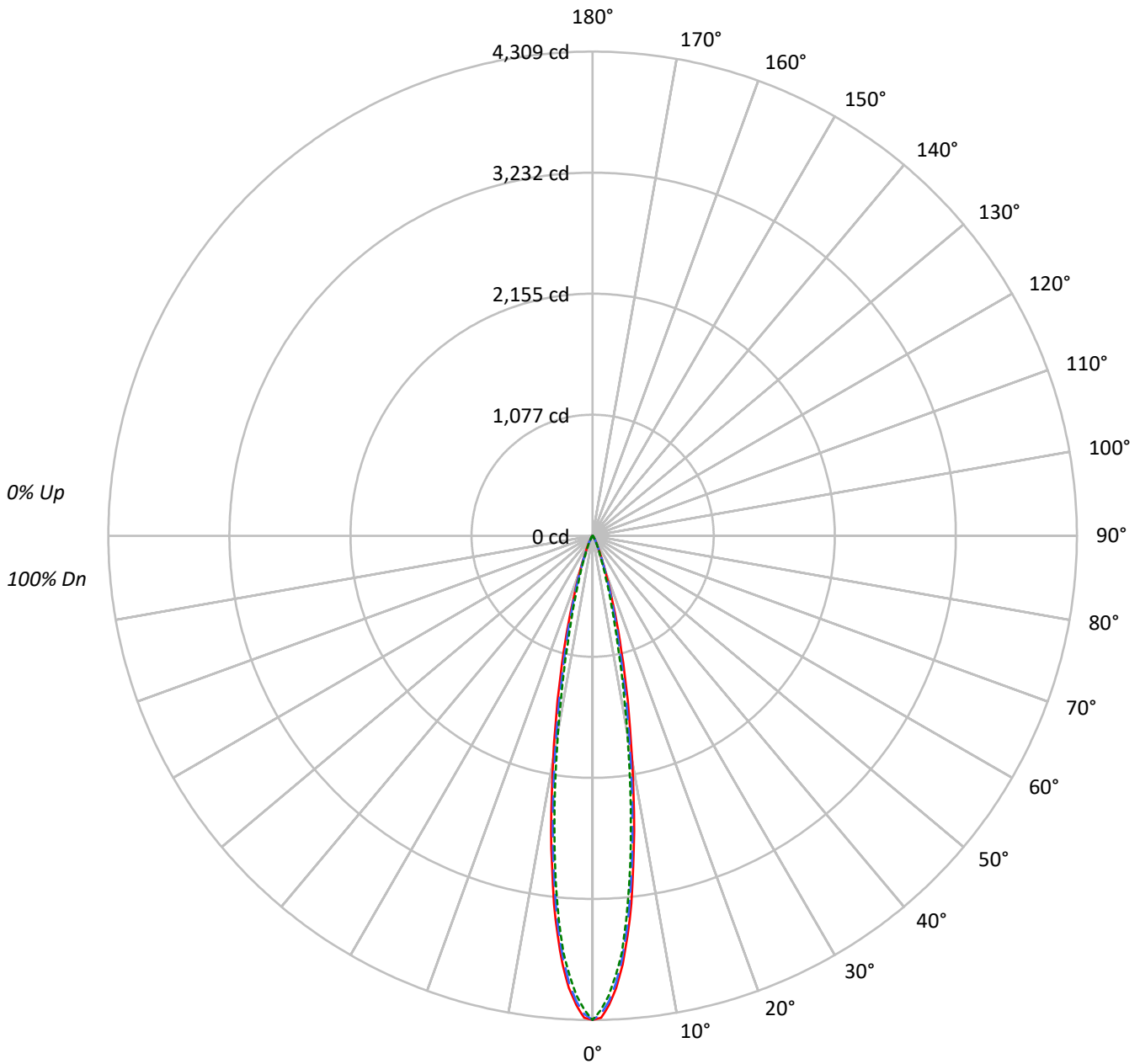
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2125945	2125945	2125945
5°	1769020	1736581	1701518
10°	1013267	950846	887423
15°	450700	400287	335420
20°	163493	153727	121806
25°	62765	58628	50463
30°	27060	25180	22332
35°	12829	12829	10600
40°	6440	6634	5346
45°	3698	3489	3279
50°	2533	2303	2303
55°	1978	1462	1720
60°	1677	987	1283
65°	1167	817	1167
70°	1010	433	1010
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	48.1
10°-20°	226.8	38.9
20°-30°	54.7	9.4
30°-40°	13.9	2.4
40°-50°	4.2	0.7
50°-60°	1.8	0.3
60°-70°	0.9	0.1
70°-80°	0.3	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°	561.8	96.4
0°-40°	575.7	98.8
0°-60°	581.6	99.8
0°-90°	582.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	582.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4309	4309	4309	4309	4309	
5°	3572	3539	3506	3476	3436	289
15°	882	861	784	706	657	252
25°	115	116	108	98	93	60
35°	21	22	21	19	18	15
45°	5	5	5	5	5	4
55°	2	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°	4309.1	4309.1	4309.1	4309.1	4309.1
1°	4289.8	4259.9	4256.3	4274.9	4220.0
2°	4180.2	4158.9	4146.6	4157.6	4095.4
3°	4029.6	4009.0	3986.7	3987.1	3917.6
4°	3824.6	3808.3	3770.7	3759.4	3719.2
5°	3572.0	3539.1	3506.5	3475.9	3435.7
6°	3292.8	3250.3	3203.8	3158.2	3117.0
7°	2964.5	2936.2	2874.7	2812.6	2777.7
8°	2655.7	2610.2	2538.4	2460.6	2431.1
9°	2323.7	2291.1	2208.7	2118.3	2088.8
10°	2022.6	1988.7	1898.0	1797.3	1771.4
11°	1740.1	1708.2	1613.8	1508.2	1480.6
12°	1501.2	1456.0	1347.6	1255.9	1229.0
13°	1263.2	1232.3	1129.6	1038.9	986.7
14°	1060.8	1035.2	942.2	862.4	807.3
15°	882.4	861.4	783.7	705.9	656.7
16°	723.8	710.9	649.4	574.3	534.1
17°	587.2	575.3	536.1	466.9	433.0
18°	474.2	472.6	440.0	380.2	350.0
19°	390.2	389.5	359.6	309.4	284.5
20°	311.4	315.7	292.8	248.9	232.0
21°	253.9	256.2	238.0	204.7	189.4
22°	206.7	208.4	196.4	169.2	160.9
23°	169.5	170.5	160.5	140.2	132.9
24°	139.6	140.2	131.3	117.0	110.7
25°	115.3	116.0	107.7	97.7	92.7
26°	95.7	96.4	89.1	82.1	77.1
27°	79.4	80.8	73.4	69.1	63.8
28°	67.8	68.1	61.5	58.8	53.8
29°	55.5	57.5	51.8	49.5	45.9
30°	47.5	48.5	44.2	42.5	39.2
32.5°	31.6	32.2	30.2	28.9	26.3
35°	21.3	21.6	21.3	19.3	17.6
37.5°	14.6	14.6	15.0	12.6	12.0
40°	10.0	10.0	10.3	8.6	8.3
42.5°	7.3	7.3	7.0	6.0	6.0
45°	5.3	5.3	5.0	4.7	4.7
47.5°	4.3	4.0	3.7	3.7	3.7
50°	3.3	3.3	3.0	2.7	3.0
52.5°	2.7	2.7	2.3	2.3	2.3
55°	2.3	2.0	1.7	1.7	2.0
57.5°	1.7	1.7	1.3	1.3	1.7
60°	1.7	1.3	1.0	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.3	0.3	0.7
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
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°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)