

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: P282158

Luminaire Tested: **LDA2B059030D010 EU2B05NFL259030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282158
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 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: 589.1 lumens
Efficiency: N/A
Efficacy: 84.2 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

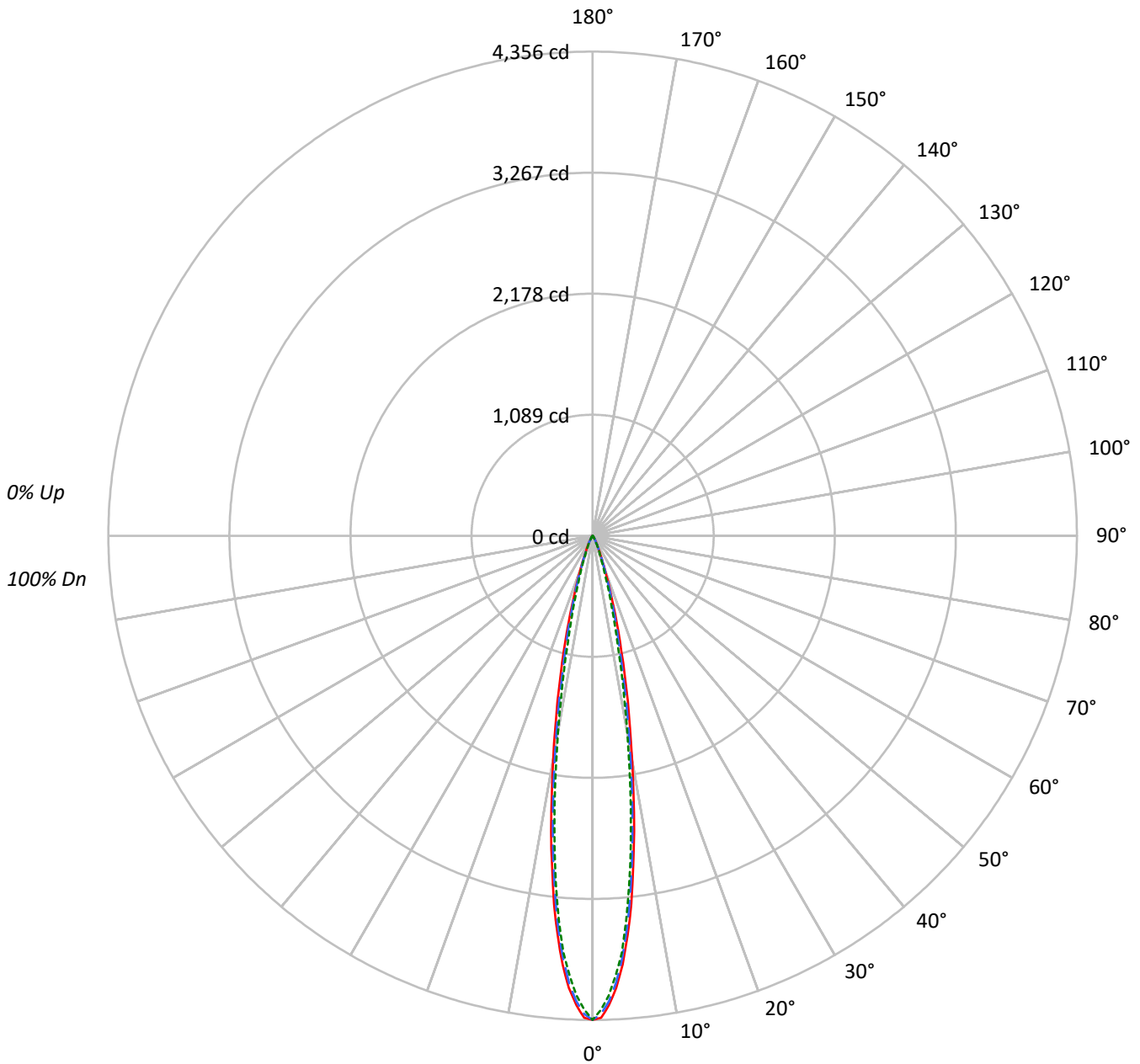
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2148985	2148985	2148985
5°	1788186	1755401	1719941
10°	1024239	961116	897042
15°	455552	404578	339046
20°	165278	155407	123118
25°	63473	59227	51007
30°	27345	25465	22560
35°	12949	12949	10721
40°	6505	6698	5410
45°	3768	3489	3279
50°	2610	2303	2303
55°	2064	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°	283.3	48.1
10°-20°	229.3	38.9
20°-30°	55.3	9.4
30°-40°	14.1	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°	567.8	96.4
0°-40°	581.9	98.8
0°-60°	587.9	99.8
0°-90°	589.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4356	4356	4356	4356	4356	
5°	3611	3577	3544	3514	3473	292
15°	892	871	792	714	664	254
25°	117	117	109	99	94	60
35°	22	22	22	20	18	15
45°	5	5	5	5	5	5
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°	4355.8	4355.8	4355.8	4355.8	4355.8
1°	4336.3	4306.1	4302.4	4321.2	4265.8
2°	4225.4	4203.9	4191.5	4202.6	4139.8
3°	4073.3	4052.4	4029.9	4030.3	3960.1
4°	3866.0	3849.5	3811.6	3800.1	3759.5
5°	3610.7	3577.4	3544.5	3513.6	3472.9
6°	3328.5	3285.5	3238.5	3192.4	3150.8
7°	2996.6	2968.0	2905.9	2843.1	2807.8
8°	2684.5	2638.5	2565.9	2487.3	2457.4
9°	2348.9	2316.0	2232.7	2141.3	2111.4
10°	2044.5	2010.3	1918.5	1816.8	1790.6
11°	1759.0	1726.7	1631.3	1524.5	1496.6
12°	1517.4	1471.8	1362.2	1269.5	1242.3
13°	1276.9	1245.7	1141.9	1050.1	997.4
14°	1072.3	1046.5	952.4	871.8	816.0
15°	891.9	870.8	792.1	713.5	663.8
16°	731.7	718.6	656.4	580.5	539.9
17°	593.6	581.5	541.9	472.0	437.7
18°	479.4	477.7	444.8	384.3	353.7
19°	394.4	393.7	363.5	312.8	287.6
20°	314.8	319.1	296.0	251.6	234.5
21°	256.7	259.0	240.5	206.9	191.5
22°	209.0	210.6	198.5	171.0	162.6
23°	171.3	172.3	162.3	141.8	134.4
24°	141.1	141.8	132.7	118.3	111.9
25°	116.6	117.2	108.8	98.8	93.7
26°	96.8	97.4	90.0	83.0	77.9
27°	80.3	81.6	74.2	69.9	64.5
28°	68.5	68.9	62.1	59.5	54.4
29°	56.1	58.1	52.4	50.1	46.4
30°	48.0	49.0	44.7	43.0	39.6
32.5°	31.9	32.6	30.6	29.2	26.5
35°	21.5	21.8	21.5	19.5	17.8
37.5°	14.8	14.8	15.1	12.8	12.1
40°	10.1	10.1	10.4	8.7	8.4
42.5°	7.4	7.4	7.1	6.0	6.0
45°	5.4	5.4	5.0	4.7	4.7
47.5°	4.4	4.0	3.7	3.7	3.7
50°	3.4	3.4	3.0	2.7	3.0
52.5°	2.7	2.7	2.4	2.4	2.4
55°	2.4	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)