

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: P282189

Luminaire Tested: **LDA2B059730D010 EU2B05NFL259730 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282189
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: LDA2B059730D010 EU2B05NFL259730 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: 534.9 lumens
Efficiency: N/A
Efficacy: 76.4 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

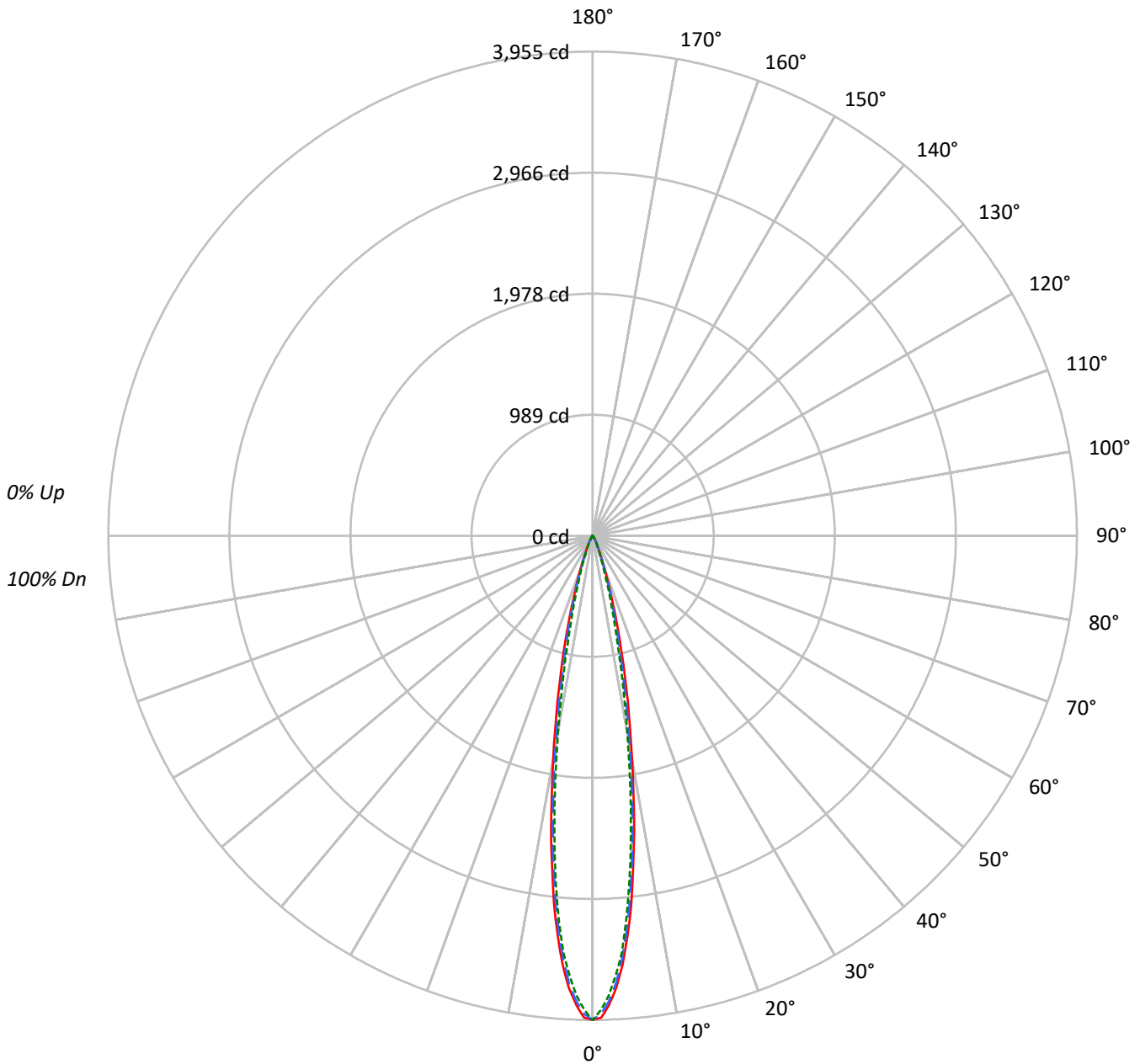
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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°	1951394	1951394	1951394
5°	1623764	1594000	1561809
10°	930056	872745	814531
15°	413669	367394	307890
20°	150052	141074	111778
25°	57648	53783	46325
30°	24838	23129	20509
35°	11745	11745	9757
40°	5925	6118	4895
45°	3419	3210	3000
50°	2379	2072	2072
55°	1806	1290	1548
60°	1480	888	1184
65°	1051	700	1051
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	48.1
10°-20°	208.2	38.9
20°-30°	50.2	9.4
30°-40°	12.8	2.4
40°-50°	3.8	0.7
50°-60°	1.6	0.3
60°-70°	0.8	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°	515.6	96.4
0°-40°	528.4	98.8
0°-60°	533.9	99.8
0°-90°	534.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	534.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3955	3955	3955	3955	3955	
5°	3279	3248	3219	3190	3154	265
15°	810	791	719	648	603	231
25°	106	106	99	90	85	55
35°	20	20	20	18	16	13
45°	5	5	5	4	4	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°	3955.3	3955.3	3955.3	3955.3	3955.3
1°	3937.6	3910.1	3906.8	3923.8	3873.5
2°	3836.9	3817.4	3806.1	3816.2	3759.1
3°	3698.7	3679.8	3659.4	3659.7	3595.9
4°	3510.5	3495.6	3461.1	3450.7	3413.8
5°	3278.7	3248.5	3218.6	3190.5	3153.6
6°	3022.4	2983.4	2940.7	2898.9	2861.1
7°	2721.0	2695.1	2638.7	2581.6	2549.6
8°	2437.6	2395.9	2330.0	2258.6	2231.4
9°	2132.9	2103.0	2027.4	1944.4	1917.2
10°	1856.5	1825.4	1742.1	1649.7	1625.9
11°	1597.2	1568.0	1481.3	1384.3	1359.0
12°	1377.9	1336.4	1237.0	1152.8	1128.1
13°	1159.5	1131.1	1036.9	953.6	905.7
14°	973.7	950.2	864.8	791.6	741.0
15°	809.9	790.7	719.3	647.9	602.8
16°	664.4	652.5	596.1	527.1	490.2
17°	539.0	528.0	492.0	428.6	397.5
18°	435.3	433.8	403.9	349.0	321.2
19°	358.1	357.5	330.1	284.0	261.1
20°	285.8	289.8	268.7	228.5	212.9
21°	233.1	235.2	218.4	187.9	173.9
22°	189.7	191.3	180.3	155.3	147.6
23°	155.6	156.5	147.3	128.7	122.0
24°	128.1	128.7	120.5	107.4	101.6
25°	105.9	106.5	98.8	89.7	85.1
26°	87.9	88.5	81.8	75.3	70.8
27°	72.9	74.1	67.4	63.5	58.6
28°	62.2	62.5	56.4	54.0	49.4
29°	50.9	52.8	47.6	45.5	42.1
30°	43.6	44.5	40.6	39.0	36.0
32.5°	29.0	29.6	27.8	26.5	24.1
35°	19.5	19.8	19.5	17.7	16.2
37.5°	13.4	13.4	13.7	11.6	11.0
40°	9.2	9.2	9.5	7.9	7.6
42.5°	6.7	6.7	6.4	5.5	5.5
45°	4.9	4.9	4.6	4.3	4.3
47.5°	4.0	3.7	3.4	3.4	3.4
50°	3.1	3.1	2.7	2.4	2.7
52.5°	2.4	2.4	2.1	2.1	2.1
55°	2.1	1.8	1.5	1.5	1.8
57.5°	1.5	1.5	1.2	1.2	1.5
60°	1.5	1.2	0.9	1.2	1.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	0.9	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
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°	1.2	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.6	0.6	0.9



(END OF REPORT)