

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: P281648

Luminaire Tested: **LDA2B059730D010 EU2B05SP159730 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P281648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-908-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059730D010 EU2B05SP159730 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH SPOT OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 589.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.29
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

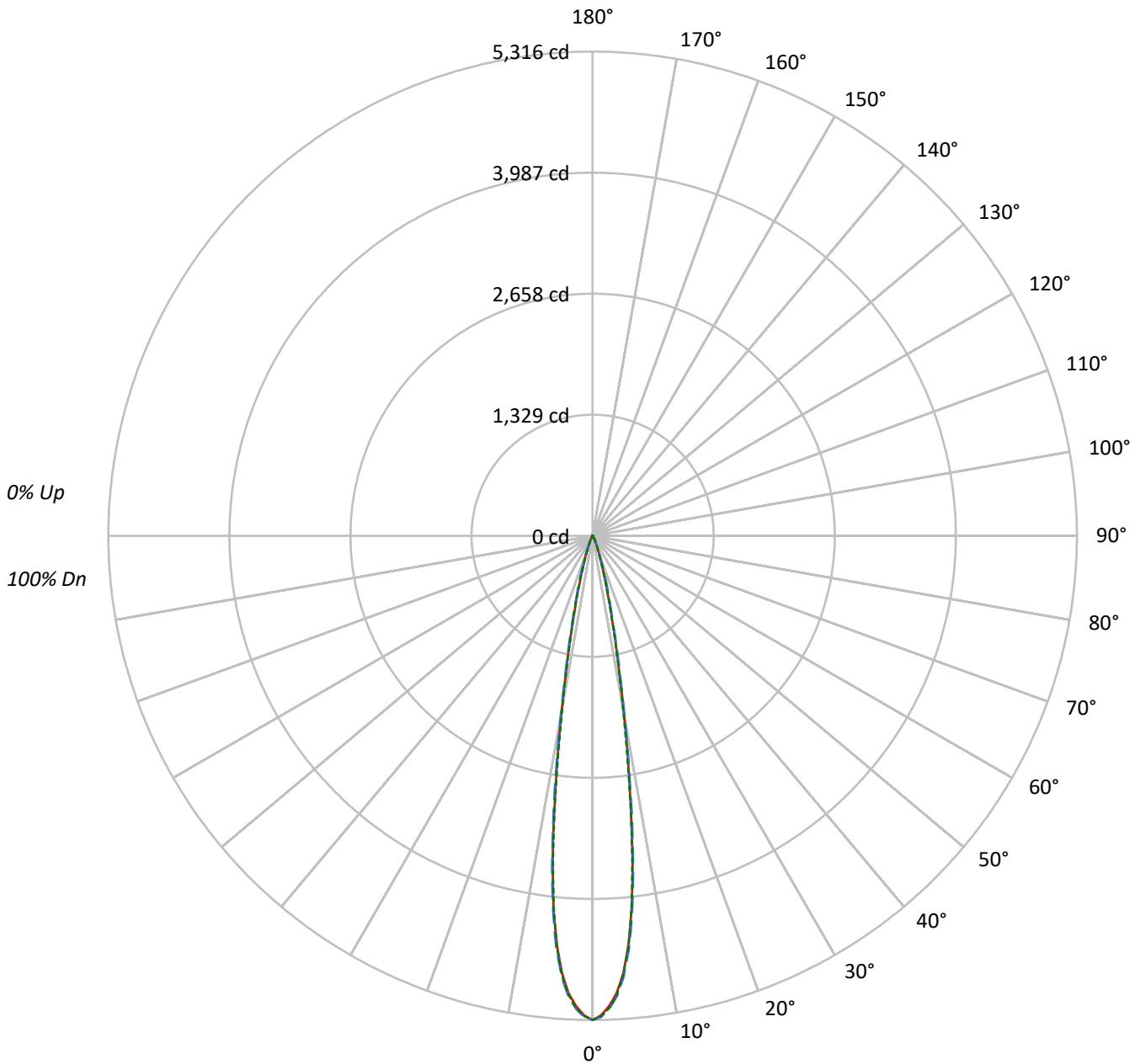
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	99	99	98	97	96																			
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	95	94																			
4	107	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93																			
5	105	100	97	95	104	100	96	94	98	95	93	97	94	93	95	93	92	91																			
6	103	98	95	92	102	97	94	92	96	93	91	95	93	91	94	92	90	89																			
7	101	96	93	90	100	95	92	90	94	92	90	93	91	89	93	90	89	88																			
8	99	94	91	89	98	94	91	88	93	90	88	92	90	88	91	89	88	87																			
9	98	92	89	87	97	92	89	87	91	89	87	91	88	86	90	88	86	85																			
10	96	91	88	86	95	90	88	86	90	87	85	89	87	85	89	87	85	84																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2622761	2622761	2622761
5°	2233363	2256640	2237573
10°	986014	1008558	962970
15°	299207	343132	303855
20°	89517	119338	100017
25°	34894	34349	36636
30°	15552	14014	14812
35°	3192	2771	2771
40°	0	193	837
45°	2721	2302	4117
50°	0	768	2533
55°	0	0	1118
60°	0	296	1283
65°	0	0	817
70°	0	1875	3750
75°	0	0	0
80°	0	0	0
85°	0	1698	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	58.4
10°-20°	196.8	33.4
20°-30°	37.4	6.3
30°-40°	6.8	1.2
40°-50°	1.7	0.3
50°-60°	1.3	0.2
60°-70°	0.2	0.0
70°-80°	0.3	0.0
80°-90°	0.4	0.1
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°	578.8	98.2
0°-40°	585.6	99.3
0°-60°	588.7	99.8
0°-90°	589.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5316	5316	5316	5316	5316	
5°	4510	4539	4557	4549	4518	342
15°	586	637	672	631	595	186
25°	64	69	63	72	67	34
35°	5	7	5	6	5	7
45°	4	6	3	4	6	2
55°	0	0	0	0	1	0
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5316.1	5316.1	5316.1	5316.1	5316.1
1°	5265.8	5271.4	5283.3	5295.4	5276.4
2°	5167.3	5180.8	5197.5	5208.7	5188.0
3°	5029.3	5048.0	5065.8	5068.1	5048.7
4°	4816.1	4839.1	4857.8	4855.5	4831.2
5°	4509.6	4539.2	4556.6	4548.7	4518.1
6°	4104.5	4133.1	4155.4	4132.8	4091.7
7°	3599.9	3632.8	3656.4	3617.7	3567.4
8°	3015.2	3061.1	3084.8	3030.6	2979.0
9°	2461.3	2493.1	2517.1	2458.0	2405.4
10°	1968.2	2026.6	2013.2	1967.5	1922.2
11°	1548.0	1600.9	1603.2	1572.3	1527.9
12°	1211.9	1267.8	1281.9	1258.2	1218.8
13°	957.6	999.4	1022.7	998.4	960.9
14°	762.2	799.3	829.2	797.6	760.2
15°	585.8	637.0	671.8	631.1	594.9
16°	465.8	508.2	549.6	503.3	474.4
17°	357.8	395.5	438.2	396.2	372.5
18°	283.2	313.1	360.1	316.7	296.0
19°	221.8	244.4	288.1	250.0	233.2
20°	170.5	195.5	227.3	201.4	190.5
22.5°	103.2	117.0	126.2	118.3	112.7
25°	64.1	69.0	63.1	71.9	67.3
26°	55.8	59.5	58.1	64.1	58.5
27°	44.7	49.3	45.7	50.3	48.6
28°	40.7	46.3	39.1	44.7	42.1
29°	28.6	30.9	27.9	29.9	29.9
30°	27.3	27.9	24.6	26.9	26.0
32.5°	21.4	20.0	16.4	17.4	16.8
35°	5.3	6.6	4.6	5.6	4.6
37.5°	7.9	7.2	8.5	8.2	7.9
40°	0.0	0.3	0.3	0.3	1.3
42.5°	5.9	3.6	3.3	2.3	3.9
45°	3.9	6.2	3.3	3.6	5.9
47.5°	0.0	0.3	0.0	0.7	0.7
50°	0.0	0.7	1.0	1.3	3.3
52.5°	0.7	3.9	2.0	3.6	5.3
55°	0.0	0.3	0.0	0.3	1.3
57.5°	1.3	0.7	1.3	1.3	5.9
60°	0.0	0.7	0.3	0.3	1.3
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.7
67.5°	0.0	0.3	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.3	0.0	0.0
80°	0.0	0.3	0.0	0.0	0.0
82.5°	0.0	0.3	0.7	1.0	0.7
85°	0.0	0.3	0.3	0.3	1.3
87.5°	0.0	0.7	1.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







70°	0.0	1.0	1.3	0.0	2.6
72.5°	0.0	1.6	0.3	0.3	0.0



(END OF REPORT)