

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: P283996

Luminaire Tested: **LDA2B159024D010 EU2B15WFL559024 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159024D010 EU2B15WFL559024 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 942.2 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

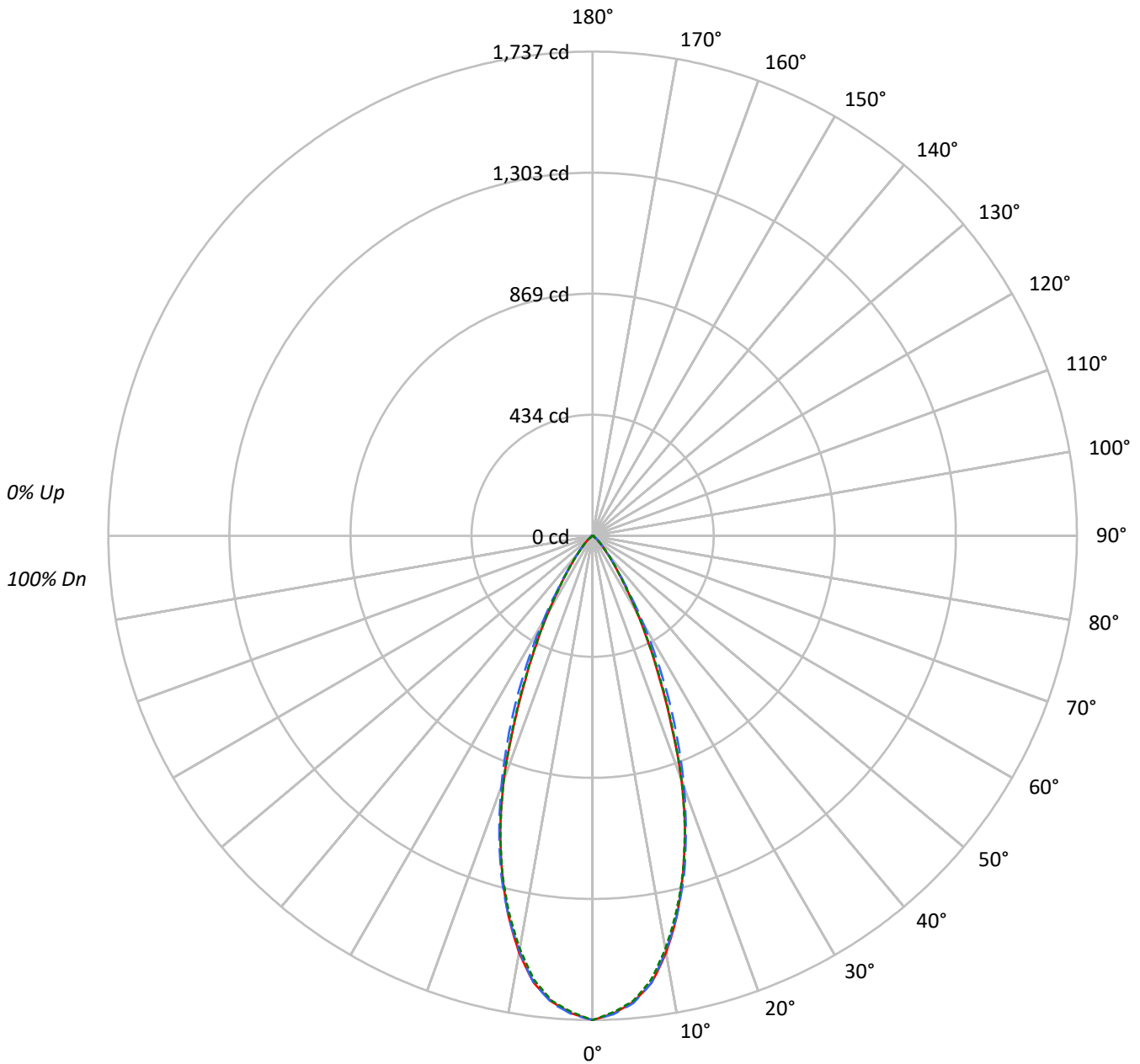
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	856969	856969	856969
5°	831221	833252	829488
10°	760877	757821	753263
15°	639989	645914	638968
20°	489428	502396	488640
25°	310778	350407	316820
30°	180761	204061	183951
35°	95522	101665	95884
40°	50428	52682	50428
45°	28188	29234	28537
50°	13202	16656	13202
55°	4817	9118	5247
60°	5526	5526	5526
65°	5954	6537	5954
70°	7357	6491	7357
75°	6672	6672	6672
80°	7103	5682	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	16.5
10°-20°	345.2	36.6
20°-30°	278.8	29.6
30°-40°	110.2	11.7
40°-50°	33.8	3.6
50°-60°	8.7	0.9
60°-70°	5.3	0.6
70°-80°	3.8	0.4
80°-90°	1.1	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°	779.1	82.7
0°-40°	889.3	94.4
0°-60°	931.9	98.9
0°-90°	942.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1737	1737	1737	1737	1737	
5°	1678	1682	1682	1679	1675	155
15°	1253	1256	1265	1260	1251	344
25°	571	598	644	609	582	266
35°	159	163	169	164	159	106
45°	40	41	42	41	41	33
55°	6	8	11	8	6	7
65°	5	6	6	6	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1737.0	1737.0	1737.0	1737.0	1737.0
2.5°	1715.3	1716.3	1717.8	1715.8	1710.8
5°	1678.4	1681.5	1682.5	1678.9	1674.9
7.5°	1617.8	1614.3	1617.3	1611.2	1606.2
10°	1518.8	1514.2	1512.7	1503.6	1503.6
12.5°	1396.5	1395.0	1396.0	1391.4	1384.4
15°	1253.0	1256.5	1264.6	1259.6	1251.0
17.5°	1100.9	1106.0	1113.1	1111.5	1099.9
20°	932.2	946.8	956.9	947.3	930.7
22.5°	740.2	771.5	797.3	777.1	749.8
25°	570.9	598.2	643.7	609.3	582.0
27.5°	433.0	452.7	494.1	460.3	441.6
30°	317.3	329.4	358.2	336.0	322.9
32.5°	226.9	235.4	247.6	234.4	227.9
35°	158.6	163.2	168.8	163.7	159.2
37.5°	111.7	113.2	117.2	113.2	111.2
40°	78.3	78.8	81.8	79.3	78.3
42.5°	56.6	56.6	58.1	57.1	56.6
45°	40.4	40.9	41.9	41.4	40.9
47.5°	28.8	29.8	29.8	30.3	28.3
50°	17.2	21.2	21.7	21.2	17.2
52.5°	9.1	12.6	15.7	12.6	9.1
55°	5.6	7.6	10.6	7.6	6.1
57.5°	5.6	5.6	7.1	6.1	5.6
60°	5.6	5.6	5.6	5.6	5.6
62.5°	5.6	5.6	5.6	5.6	5.6
65°	5.1	5.6	5.6	5.6	5.1
67.5°	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	4.5	5.1	5.1
72.5°	4.5	4.5	4.0	4.5	4.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.5	2.5	2.0	2.5	2.5
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)