

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: P284030

Luminaire Tested: **LDA2B159727D010 EU2B15WFL559727 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284030
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: LDA2B159727D010 EU2B15WFL559727 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 922.3 lumens
Efficiency: N/A
Efficacy: 65.4 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

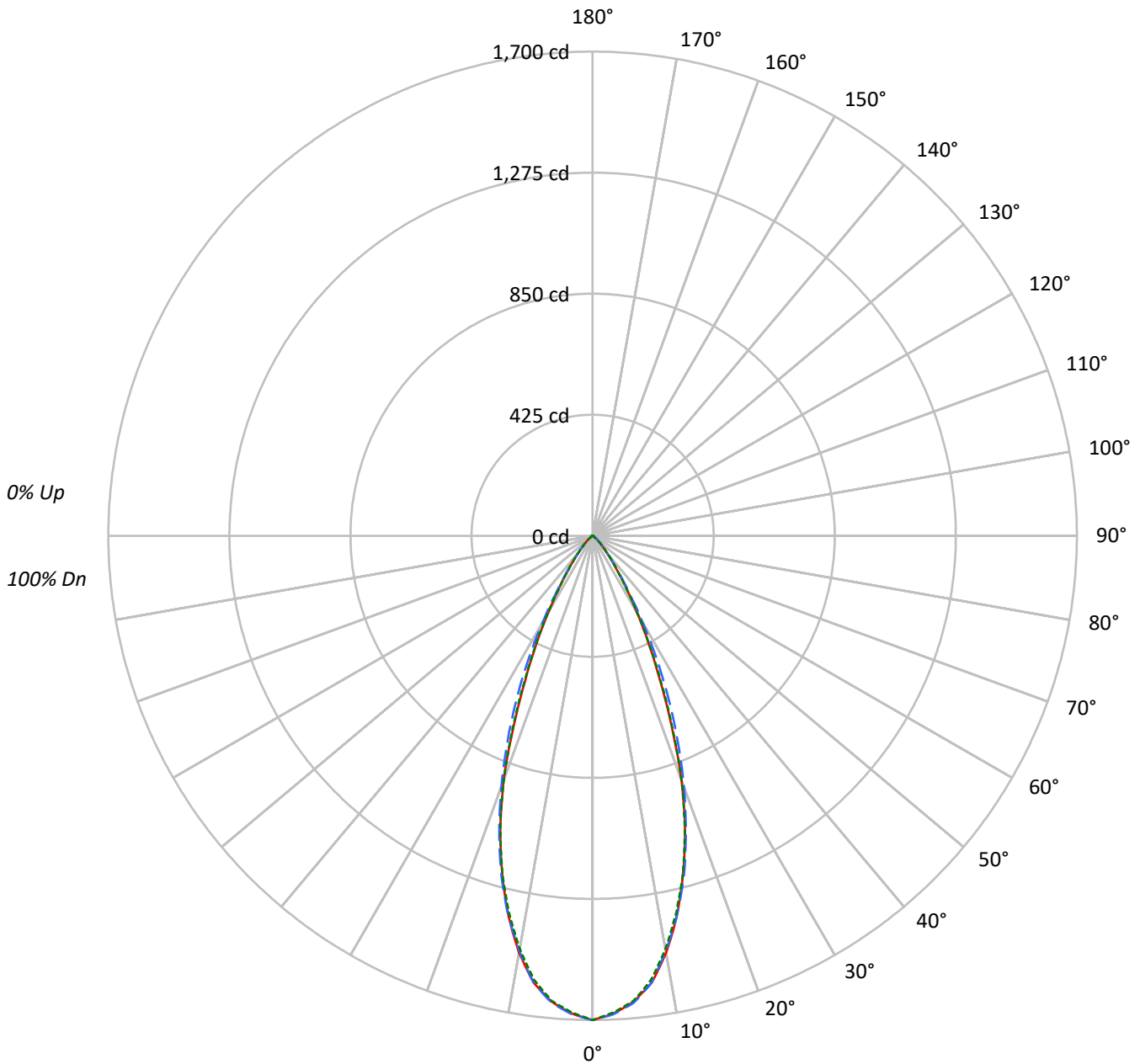
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	838962	838962	838962
5°	813739	815671	812006
10°	744846	741890	737432
15°	626505	632328	625535
20°	479137	491843	478350
25°	304245	343004	310179
30°	176944	199789	180077
35°	93535	99497	93836
40°	49398	51587	49398
45°	27630	28676	27979
50°	12895	16348	12895
55°	4645	8946	5075
60°	5328	5328	5328
65°	5720	6304	5720
70°	7068	6491	7068
75°	6672	6672	6672
80°	7103	5682	7103
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	16.5
10°-20°	338.0	36.6
20°-30°	272.9	29.6
30°-40°	107.9	11.7
40°-50°	33.1	3.6
50°-60°	8.5	0.9
60°-70°	5.1	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°	762.7	82.7
0°-40°	870.6	94.4
0°-60°	912.3	98.9
0°-90°	922.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	922.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1700	1700	1700	1700	1700	
5°	1643	1646	1647	1644	1640	152
15°	1227	1230	1238	1233	1225	337
25°	559	586	630	596	570	260
35°	155	160	165	160	156	104
45°	40	40	41	41	40	32
55°	5	7	10	7	6	7
65°	5	5	5	5	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°	1700.5	1700.5	1700.5	1700.5	1700.5
2.5°	1679.2	1680.2	1681.7	1679.7	1674.7
5°	1643.1	1646.1	1647.0	1643.6	1639.6
7.5°	1583.7	1580.3	1583.2	1577.3	1572.4
10°	1486.8	1482.3	1480.9	1472.0	1472.0
12.5°	1367.1	1365.6	1366.6	1362.2	1355.2
15°	1226.6	1230.1	1238.0	1233.1	1224.7
17.5°	1077.8	1082.7	1089.6	1088.1	1076.8
20°	912.6	926.9	936.8	927.4	911.1
22.5°	724.6	755.3	780.5	760.7	734.0
25°	558.9	585.6	630.1	596.5	569.8
27.5°	423.9	443.2	483.7	450.6	432.3
30°	310.6	322.5	350.7	328.9	316.1
32.5°	222.1	230.5	242.4	229.5	223.1
35°	155.3	159.8	165.2	160.3	155.8
37.5°	109.3	110.8	114.7	110.8	108.8
40°	76.7	77.2	80.1	77.7	76.7
42.5°	55.4	55.4	56.9	55.9	55.4
45°	39.6	40.1	41.1	40.6	40.1
47.5°	28.2	29.2	29.2	29.7	27.7
50°	16.8	20.8	21.3	20.8	16.8
52.5°	8.9	12.4	15.3	12.4	8.9
55°	5.4	7.4	10.4	7.4	5.9
57.5°	5.4	5.4	6.9	5.9	5.4
60°	5.4	5.4	5.4	5.4	5.4
62.5°	5.4	5.4	5.4	5.4	5.4
65°	4.9	5.4	5.4	5.4	4.9
67.5°	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.5	4.9	4.9
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)