

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: P284016

Luminaire Tested: **LDA2B159035D010 EU2B15WFL559035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284016
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: LDA2B159035D010 EU2B15WFL559035 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.3 lumens
Efficiency: N/A
Efficacy: 71.0 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

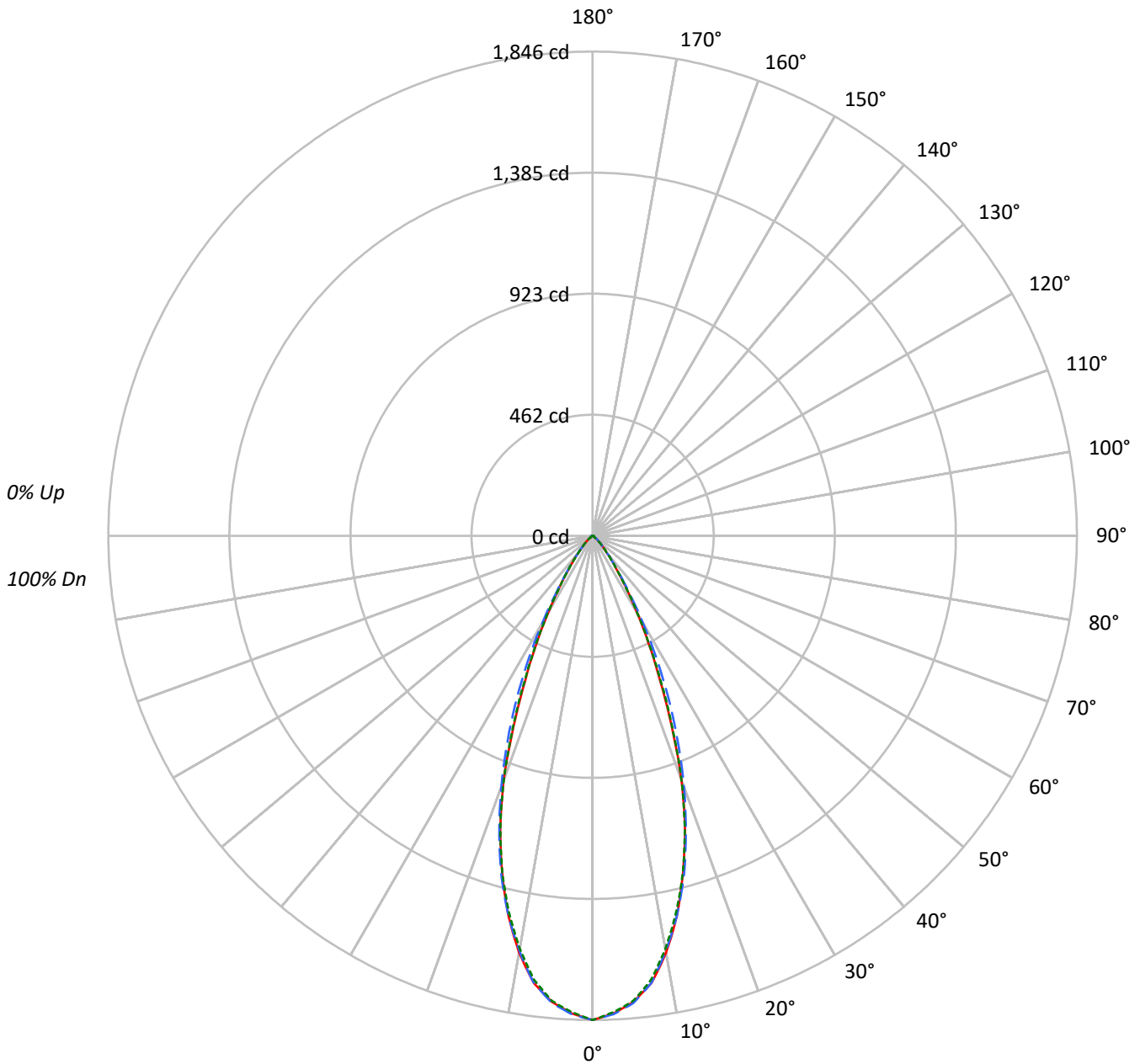
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	910795	910795	910795
5°	883420	885550	881588
10°	808620	805414	800554
15°	680187	686469	679063
20°	520142	533950	519302
25°	330320	372400	336744
30°	192098	216879	195459
35°	101545	107989	101846
40°	53584	56031	53584
45°	30002	31118	30351
50°	14046	17730	14046
55°	5075	9720	5505
60°	5822	5822	5822
65°	6304	6888	6304
70°	7789	6924	7789
75°	7244	7244	7244
80°	7671	5966	7671
85°	6227	6227	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	16.5
10°-20°	366.9	36.6
20°-30°	296.3	29.6
30°-40°	117.1	11.7
40°-50°	36.0	3.6
50°-60°	9.3	0.9
60°-70°	5.6	0.6
70°-80°	4.1	0.4
80°-90°	1.2	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°	828.0	82.7
0°-40°	945.1	94.4
0°-60°	990.4	98.9
0°-90°	1001.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1846	1846	1846	1846	1846	
5°	1784	1787	1788	1784	1780	165
15°	1332	1335	1344	1339	1330	366
25°	607	636	684	648	619	282
35°	169	173	179	174	169	113
45°	43	44	45	44	44	35
55°	6	8	11	8	6	7
65°	5	6	6	6	5	6
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°	1846.1	1846.1	1846.1	1846.1	1846.1
2.5°	1823.0	1824.1	1825.7	1823.5	1818.2
5°	1783.8	1787.0	1788.1	1784.3	1780.1
7.5°	1719.4	1715.6	1718.8	1712.4	1707.0
10°	1614.1	1609.3	1607.7	1598.0	1598.0
12.5°	1484.2	1482.6	1483.6	1478.8	1471.3
15°	1331.7	1335.4	1344.0	1338.7	1329.5
17.5°	1170.1	1175.4	1182.9	1181.3	1169.0
20°	990.7	1006.3	1017.0	1006.8	989.1
22.5°	786.7	820.0	847.3	825.9	796.9
25°	606.8	635.8	684.1	647.6	618.6
27.5°	460.2	481.1	525.2	489.2	469.3
30°	337.2	350.1	380.7	357.1	343.1
32.5°	241.1	250.2	263.1	249.2	242.2
35°	168.6	173.4	179.3	174.0	169.1
37.5°	118.7	120.3	124.6	120.3	118.1
40°	83.2	83.8	87.0	84.3	83.2
42.5°	60.1	60.1	61.8	60.7	60.1
45°	43.0	43.5	44.6	44.0	43.5
47.5°	30.6	31.7	31.7	32.2	30.1
50°	18.3	22.6	23.1	22.6	18.3
52.5°	9.7	13.4	16.6	13.4	9.7
55°	5.9	8.1	11.3	8.1	6.4
57.5°	5.9	5.9	7.5	6.4	5.9
60°	5.9	5.9	5.9	5.9	5.9
62.5°	5.9	5.9	5.9	5.9	5.9
65°	5.4	5.9	5.9	5.9	5.4
67.5°	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	4.8	5.4	5.4
72.5°	4.8	4.8	4.3	4.8	4.8
75°	3.8	3.8	3.8	3.8	3.8
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.7	2.7	2.1	2.7	2.7
82.5°	1.6	1.6	1.6	1.6	1.6
85°	1.1	1.1	1.1	1.1	1.1
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)