

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: P284003

Luminaire Tested: **LDA2B159027D010 EU2B15WFL559027 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284003
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: LDA2B159027D010 EU2B15WFL559027 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 960.8 lumens
Efficiency: N/A
Efficacy: 68.1 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

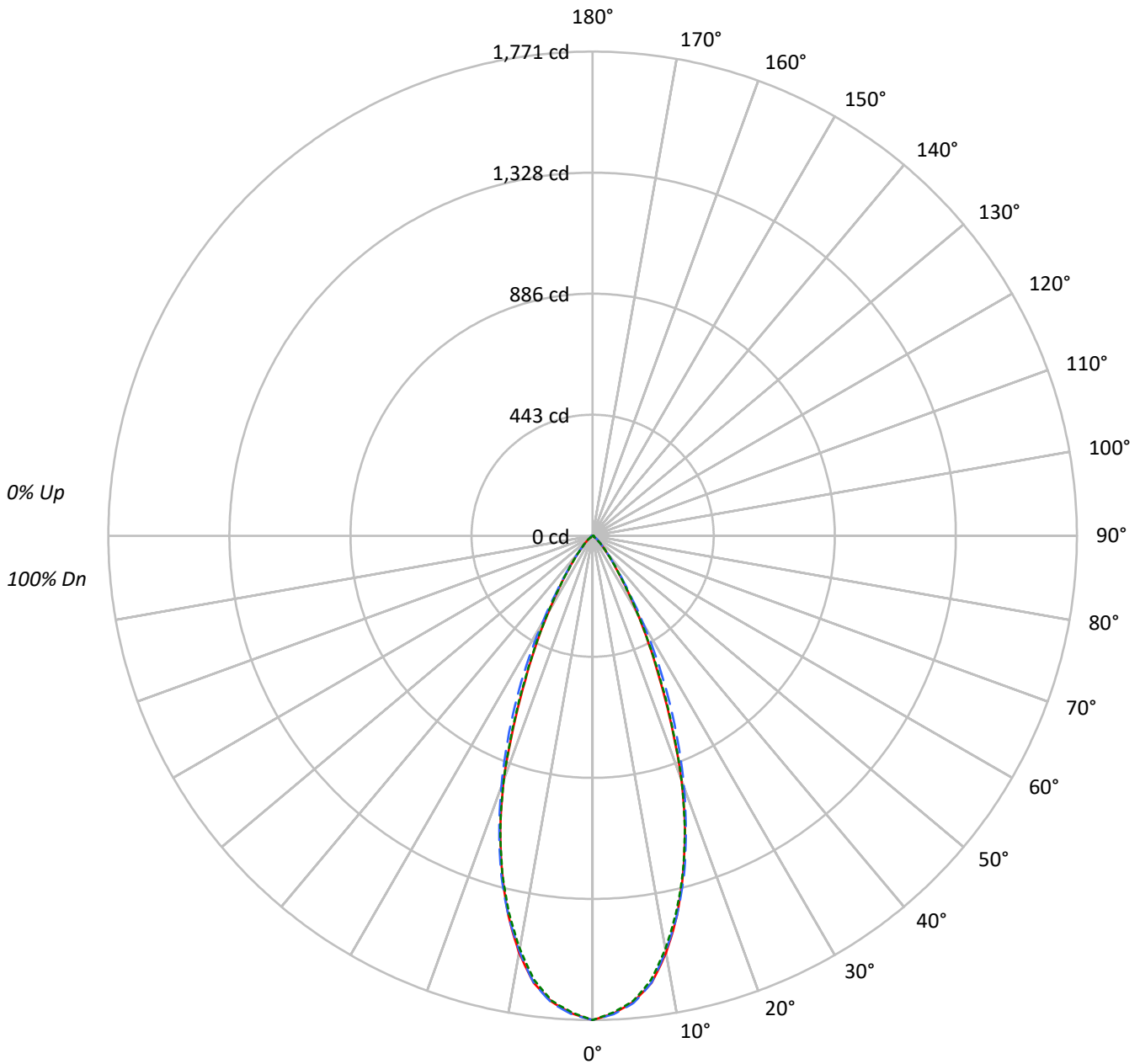
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	873892	873892	873892
5°	847664	849694	845831
10°	775856	772800	768141
15°	652605	658683	651584
20°	499088	512319	498248
25°	316929	357321	323080
30°	184350	208106	187540
35°	97449	103653	97751
40°	51459	53777	51459
45°	28746	29862	29095
50°	13432	17039	13432
55°	4903	9290	5333
60°	5624	5624	5624
65°	6070	6654	6070
70°	7501	6635	7501
75°	6862	6862	6862
80°	7387	5966	7387
85°	5661	5661	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	16.5
10°-20°	352.1	36.6
20°-30°	284.3	29.6
30°-40°	112.4	11.7
40°-50°	34.5	3.6
50°-60°	8.9	0.9
60°-70°	5.4	0.6
70°-80°	3.9	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°	794.5	82.7
0°-40°	906.9	94.4
0°-60°	950.3	98.9
0°-90°	960.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	960.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1712	1715	1716	1712	1708	158
15°	1278	1281	1290	1284	1276	351
25°	582	610	656	621	594	271
35°	162	166	172	167	162	108
45°	41	42	43	42	42	34
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°	1771.3	1771.3	1771.3	1771.3	1771.3
2.5°	1749.2	1750.2	1751.7	1749.7	1744.5
5°	1711.6	1714.6	1715.7	1712.1	1707.9
7.5°	1649.7	1646.1	1649.2	1643.0	1637.9
10°	1548.7	1544.1	1542.6	1533.3	1533.3
12.5°	1424.1	1422.5	1423.5	1418.9	1411.7
15°	1277.7	1281.3	1289.6	1284.4	1275.7
17.5°	1122.7	1127.8	1135.0	1133.5	1121.6
20°	950.6	965.5	975.8	966.0	949.0
22.5°	754.8	786.7	813.0	792.4	764.6
25°	582.2	610.0	656.4	621.4	593.5
27.5°	441.5	461.6	503.9	469.4	450.3
30°	323.6	335.9	365.3	342.6	329.2
32.5°	231.3	240.1	252.5	239.1	232.4
35°	161.8	166.4	172.1	166.9	162.3
37.5°	113.9	115.4	119.5	115.4	113.3
40°	79.9	80.4	83.5	80.9	79.9
42.5°	57.7	57.7	59.2	58.2	57.7
45°	41.2	41.7	42.8	42.2	41.7
47.5°	29.4	30.4	30.4	30.9	28.9
50°	17.5	21.6	22.2	21.6	17.5
52.5°	9.3	12.9	16.0	12.9	9.3
55°	5.7	7.7	10.8	7.7	6.2
57.5°	5.7	5.7	7.2	6.2	5.7
60°	5.7	5.7	5.7	5.7	5.7
62.5°	5.7	5.7	5.7	5.7	5.7
65°	5.2	5.7	5.7	5.7	5.2
67.5°	5.2	5.2	5.2	5.2	5.2
70°	5.2	5.2	4.6	5.2	5.2
72.5°	4.6	4.6	4.1	4.6	4.6
75°	3.6	3.6	3.6	3.6	3.6
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.6	2.6	2.1	2.6	2.6
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)