

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: P283822

Luminaire Tested: **LDA2B058050D010 EU2B05WFL558050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283822
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: LDA2B058050D010 EU2B05WFL558050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 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: 759.5 lumens
Efficiency: N/A
Efficacy: 108.5 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

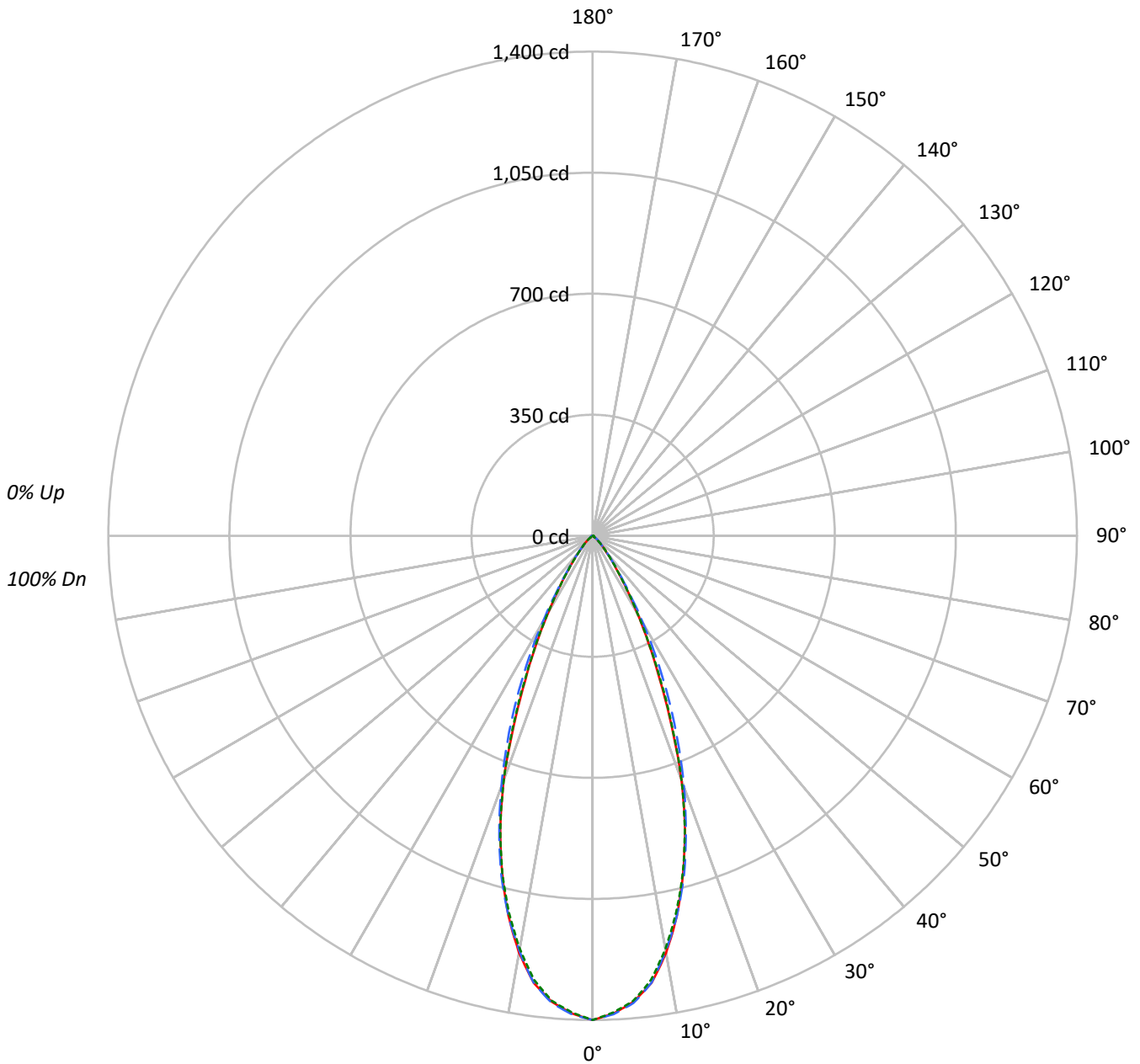
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	690805	690805	690805
5°	670068	671703	668632
10°	613341	610886	607229
15°	515924	520675	515056
20°	394504	405004	393873
25°	250517	282471	255416
30°	145725	164525	148289
35°	77032	81911	77273
40°	40639	42507	40639
45°	22746	23583	23025
50°	10592	13432	10592
55°	3871	7397	4215
60°	4440	4440	4440
65°	4786	5253	4786
70°	5914	5337	5914
75°	5528	5528	5528
80°	5682	4546	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	16.5
10°-20°	278.3	36.6
20°-30°	224.8	29.6
30°-40°	88.8	11.7
40°-50°	27.3	3.6
50°-60°	7.0	0.9
60°-70°	4.3	0.6
70°-80°	3.1	0.4
80°-90°	0.9	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°	628.0	82.7
0°-40°	716.9	94.4
0°-60°	751.2	98.9
0°-90°	759.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	759.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1353	1355	1356	1353	1350	125
15°	1010	1013	1019	1015	1008	277
25°	460	482	519	491	469	214
35°	128	132	136	132	128	86
45°	33	33	34	33	33	27
55°	4	6	9	6	5	6
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
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°	1400.2	1400.2	1400.2	1400.2	1400.2
2.5°	1382.7	1383.5	1384.8	1383.1	1379.1
5°	1353.0	1355.4	1356.3	1353.4	1350.1
7.5°	1304.1	1301.3	1303.7	1298.8	1294.8
10°	1224.3	1220.6	1219.4	1212.1	1212.1
12.5°	1125.7	1124.5	1125.3	1121.7	1116.0
15°	1010.1	1012.9	1019.4	1015.4	1008.4
17.5°	887.5	891.5	897.2	896.0	886.7
20°	751.4	763.3	771.4	763.7	750.2
22.5°	596.7	621.9	642.7	626.4	604.4
25°	460.2	482.2	518.9	491.2	469.2
27.5°	349.0	364.9	398.3	371.0	356.0
30°	255.8	265.5	288.8	270.8	260.3
32.5°	182.9	189.8	199.6	189.0	183.7
35°	127.9	131.6	136.0	132.0	128.3
37.5°	90.0	91.2	94.5	91.2	89.6
40°	63.1	63.5	66.0	63.9	63.1
42.5°	45.6	45.6	46.8	46.0	45.6
45°	32.6	33.0	33.8	33.4	33.0
47.5°	23.2	24.0	24.0	24.4	22.8
50°	13.8	17.1	17.5	17.1	13.8
52.5°	7.3	10.2	12.6	10.2	7.3
55°	4.5	6.1	8.6	6.1	4.9
57.5°	4.5	4.5	5.7	4.9	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.5	4.5	4.1
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.7	4.1	4.1
72.5°	3.7	3.7	3.3	3.7	3.7
75°	2.9	2.9	2.9	2.9	2.9
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	1.6	2.0	2.0
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)