

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: P283843

Luminaire Tested: **LDA2B059030D010 EU2B05WFL559030 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283843
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: LDA2B059030D010 EU2B05WFL559030 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 542.8 lumens
Efficiency: N/A
Efficacy: 77.5 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

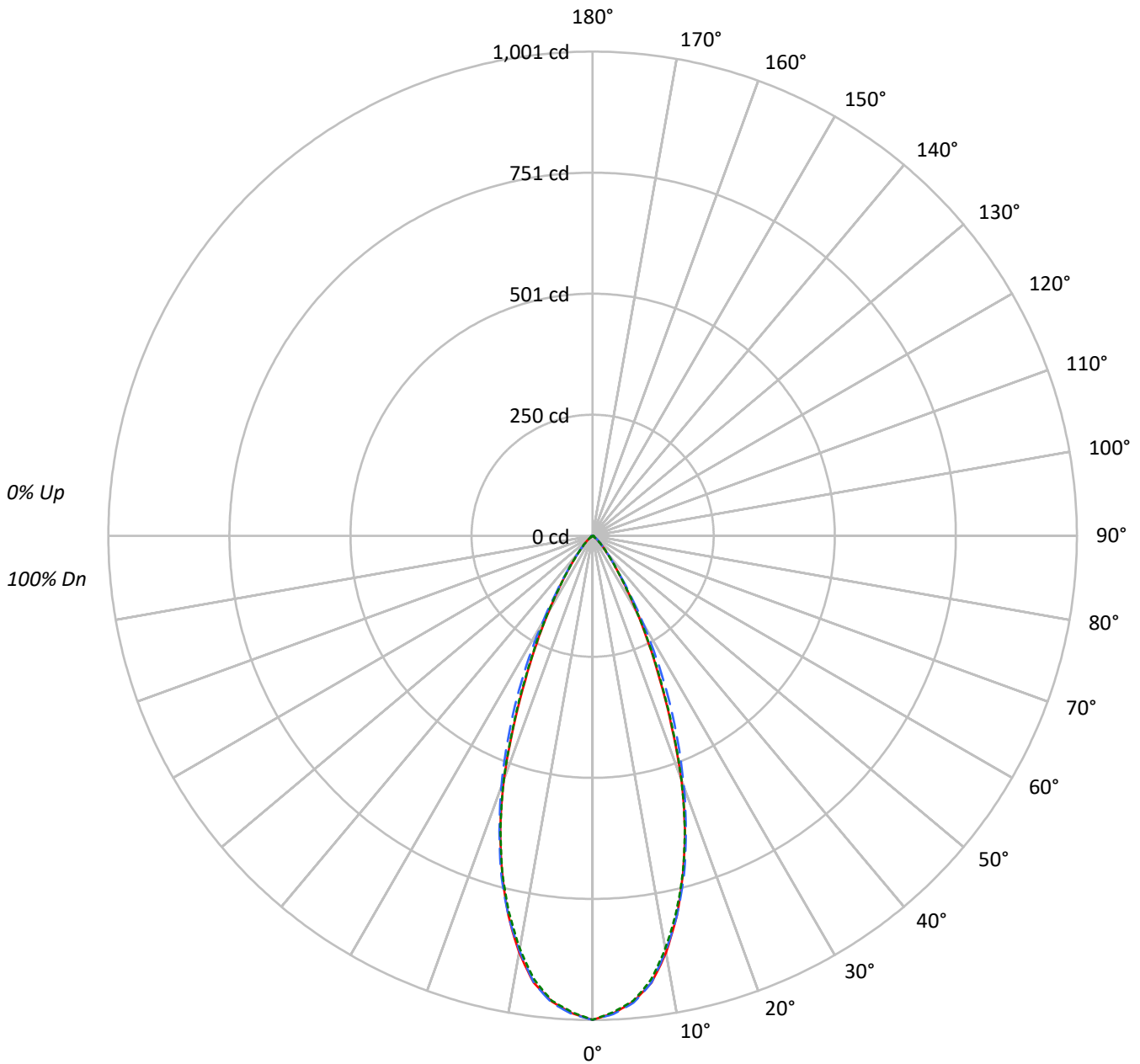
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	493707	493707	493707
5°	478854	479993	477863
10°	438301	436548	433943
15°	368671	372093	368109
20°	281938	289446	281466
25°	179041	201850	182525
30°	104138	117583	105961
35°	55049	58542	55229
40°	29046	30399	29046
45°	16257	16885	16466
50°	7599	9594	7599
55°	2752	5247	3011
60°	3158	3158	3158
65°	3385	3736	3385
70°	4183	3750	4183
75°	3812	3812	3812
80°	4262	3409	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	16.5
10°-20°	198.9	36.6
20°-30°	160.6	29.6
30°-40°	63.5	11.7
40°-50°	19.5	3.6
50°-60°	5.0	0.9
60°-70°	3.0	0.6
70°-80°	2.2	0.4
80°-90°	0.7	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°	448.8	82.7
0°-40°	512.3	94.4
0°-60°	536.8	98.9
0°-90°	542.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	542.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	967	969	969	967	965	89
15°	722	724	728	726	721	198
25°	329	345	371	351	335	153
35°	91	94	97	94	92	61
45°	23	24	24	24	24	19
55°	3	4	6	4	4	4
65°	3	3	3	3	3	3
75°	2	2	2	2	2	2
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°	1000.7	1000.7	1000.7	1000.7	1000.7
2.5°	988.1	988.7	989.6	988.4	985.5
5°	966.9	968.6	969.2	967.2	964.9
7.5°	932.0	929.9	931.7	928.2	925.3
10°	874.9	872.3	871.4	866.2	866.2
12.5°	804.5	803.6	804.2	801.6	797.5
15°	721.8	723.9	728.5	725.6	720.7
17.5°	634.2	637.1	641.2	640.3	633.6
20°	537.0	545.4	551.3	545.7	536.1
22.5°	426.4	444.4	459.3	447.6	431.9
25°	328.9	344.6	370.8	351.0	335.3
27.5°	249.4	260.8	284.7	265.2	254.4
30°	182.8	189.8	206.4	193.6	186.0
32.5°	130.7	135.6	142.6	135.1	131.3
35°	91.4	94.0	97.2	94.3	91.7
37.5°	64.3	65.2	67.5	65.2	64.0
40°	45.1	45.4	47.2	45.7	45.1
42.5°	32.6	32.6	33.5	32.9	32.6
45°	23.3	23.6	24.2	23.9	23.6
47.5°	16.6	17.2	17.2	17.5	16.3
50°	9.9	12.2	12.5	12.2	9.9
52.5°	5.2	7.3	9.0	7.3	5.2
55°	3.2	4.4	6.1	4.4	3.5
57.5°	3.2	3.2	4.1	3.5	3.2
60°	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.9	3.2	3.2	3.2	2.9
67.5°	2.9	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.6	2.9	2.9
72.5°	2.6	2.6	2.3	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.5	1.5	1.2	1.5	1.5
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)