

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: P283840

Luminaire Tested: **LDA2B059030D010 EU2B05WFL559030 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283840
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 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: 585.9 lumens
Efficiency: N/A
Efficacy: 83.7 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

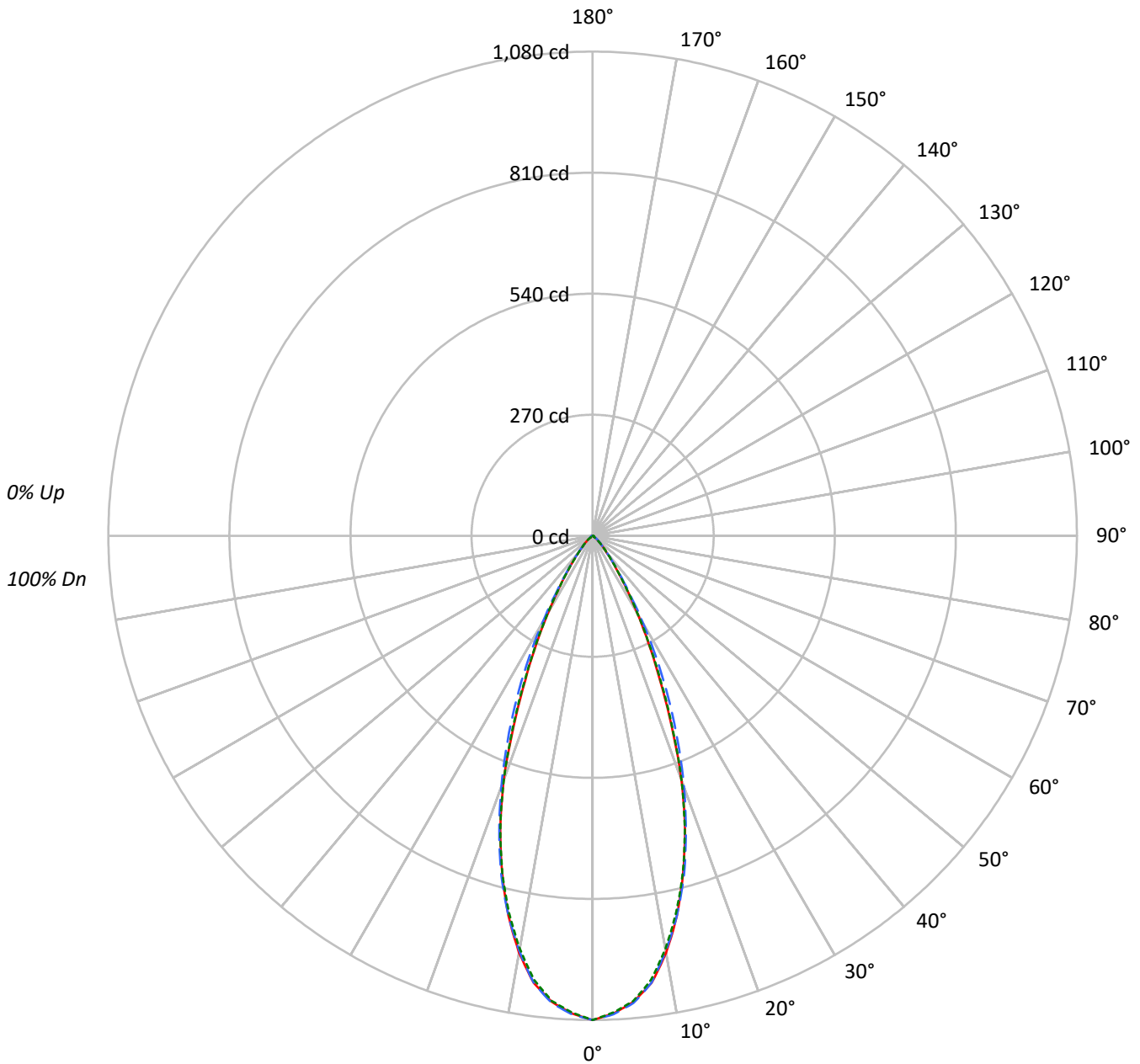
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	532929	532929	532929
5°	516938	518176	515849
10°	473169	471265	468409
15°	397989	401666	397325
20°	304357	312442	303832
25°	193249	217909	197060
30°	112399	126926	114393
35°	59445	63180	59626
40°	31365	32782	31365
45°	17513	18210	17722
50°	8213	10362	8213
55°	3011	5677	3269
60°	3454	3454	3454
65°	3619	4086	3619
70°	4472	4039	4472
75°	4194	4194	4194
80°	4546	3694	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	16.5
10°-20°	214.7	36.6
20°-30°	173.4	29.6
30°-40°	68.5	11.7
40°-50°	21.0	3.6
50°-60°	5.4	0.9
60°-70°	3.3	0.6
70°-80°	2.4	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°	484.5	82.7
0°-40°	553.0	94.4
0°-60°	579.5	98.9
0°-90°	585.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1044	1046	1046	1044	1042	97
15°	779	781	786	783	778	214
25°	355	372	400	379	362	165
35°	99	102	105	102	99	66
45°	25	25	26	26	25	21
55°	4	5	7	5	4	4
65°	3	4	4	4	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°	1080.2	1080.2	1080.2	1080.2	1080.2
2.5°	1066.7	1067.3	1068.3	1067.0	1063.9
5°	1043.8	1045.6	1046.3	1044.1	1041.6
7.5°	1006.1	1003.9	1005.7	1002.0	998.8
10°	944.5	941.6	940.7	935.0	935.0
12.5°	868.4	867.5	868.1	865.3	860.9
15°	779.2	781.4	786.4	783.3	777.9
17.5°	684.6	687.8	692.2	691.2	684.0
20°	579.7	588.8	595.1	589.1	578.7
22.5°	460.3	479.8	495.8	483.2	466.3
25°	355.0	372.0	400.3	378.9	362.0
27.5°	269.3	281.5	307.3	286.2	274.6
30°	197.3	204.9	222.8	208.9	200.8
32.5°	141.1	146.4	154.0	145.8	141.7
35°	98.7	101.5	104.9	101.8	99.0
37.5°	69.4	70.4	72.9	70.4	69.1
40°	48.7	49.0	50.9	49.3	48.7
42.5°	35.2	35.2	36.1	35.5	35.2
45°	25.1	25.4	26.1	25.8	25.4
47.5°	17.9	18.5	18.5	18.9	17.6
50°	10.7	13.2	13.5	13.2	10.7
52.5°	5.7	7.9	9.7	7.9	5.7
55°	3.5	4.7	6.6	4.7	3.8
57.5°	3.5	3.5	4.4	3.8	3.5
60°	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.1	3.5	3.5	3.5	3.1
67.5°	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	2.8	3.1	3.1
72.5°	2.8	2.8	2.5	2.8	2.8
75°	2.2	2.2	2.2	2.2	2.2
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.3	1.6	1.6
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)