

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: P283833

Luminaire Tested: **LDA2B059027D010 EU2B05WFL559027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283833
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: LDA2B059027D010 EU2B05WFL559027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 550.9 lumens
Efficiency: N/A
Efficacy: 78.7 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

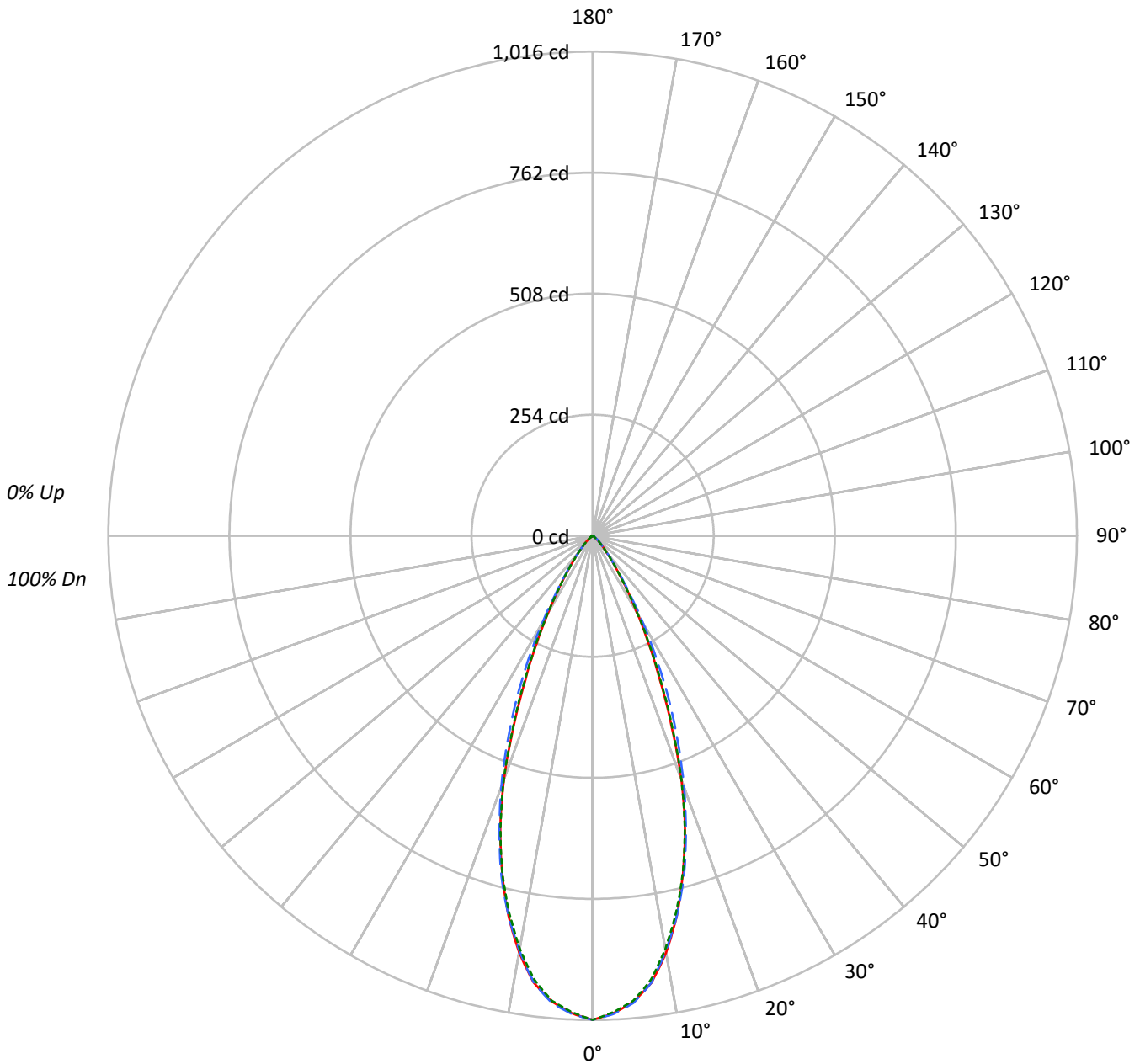
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	501157	501157	501157
5°	486084	487223	485044
10°	444914	443160	440505
15°	374238	377711	373625
20°	286191	293804	285718
25°	181763	204899	185302
30°	105677	119349	107557
35°	55892	59445	56073
40°	29497	30849	29497
45°	16466	17094	16675
50°	7675	9748	7675
55°	2752	5333	3011
60°	3158	3158	3158
65°	3502	3736	3502
70°	4327	3895	4327
75°	4003	4003	4003
80°	4262	3409	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	16.5
10°-20°	201.9	36.6
20°-30°	163.0	29.6
30°-40°	64.4	11.7
40°-50°	19.8	3.6
50°-60°	5.1	0.9
60°-70°	3.1	0.6
70°-80°	2.3	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°	455.6	82.7
0°-40°	520.0	94.4
0°-60°	544.9	98.9
0°-90°	550.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	982	983	984	982	979	91
15°	733	735	740	737	732	201
25°	334	350	376	356	340	155
35°	93	95	99	96	93	62
45°	24	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°	1015.8	1015.8	1015.8	1015.8	1015.8
2.5°	1003.0	1003.6	1004.5	1003.3	1000.4
5°	981.5	983.3	983.8	981.8	979.4
7.5°	946.0	944.0	945.7	942.2	939.2
10°	888.1	885.5	884.6	879.3	879.3
12.5°	816.6	815.7	816.3	813.7	809.5
15°	732.7	734.8	739.5	736.6	731.5
17.5°	643.8	646.7	650.9	650.0	643.2
20°	545.1	553.7	559.6	554.0	544.2
22.5°	432.8	451.2	466.2	454.4	438.4
25°	333.9	349.8	376.4	356.3	340.4
27.5°	253.2	264.7	288.9	269.2	258.2
30°	185.5	192.6	209.5	196.5	188.8
32.5°	132.7	137.7	144.8	137.1	133.2
35°	92.8	95.4	98.7	95.7	93.1
37.5°	65.3	66.2	68.5	66.2	65.0
40°	45.8	46.1	47.9	46.4	45.8
42.5°	33.1	33.1	34.0	33.4	33.1
45°	23.6	23.9	24.5	24.2	23.9
47.5°	16.8	17.4	17.4	17.7	16.5
50°	10.0	12.4	12.7	12.4	10.0
52.5°	5.3	7.4	9.2	7.4	5.3
55°	3.2	4.4	6.2	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°	3.0	3.2	3.2	3.2	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	2.7	3.0	3.0
72.5°	2.7	2.7	2.4	2.7	2.7
75°	2.1	2.1	2.1	2.1	2.1
77.5°	1.8	1.8	1.8	1.8	1.8
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)