

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: P282171

Luminaire Tested: **LDA2B059040D010 EU2B05NFL259040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059040D010 EU2B05NFL259040 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 617.9 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

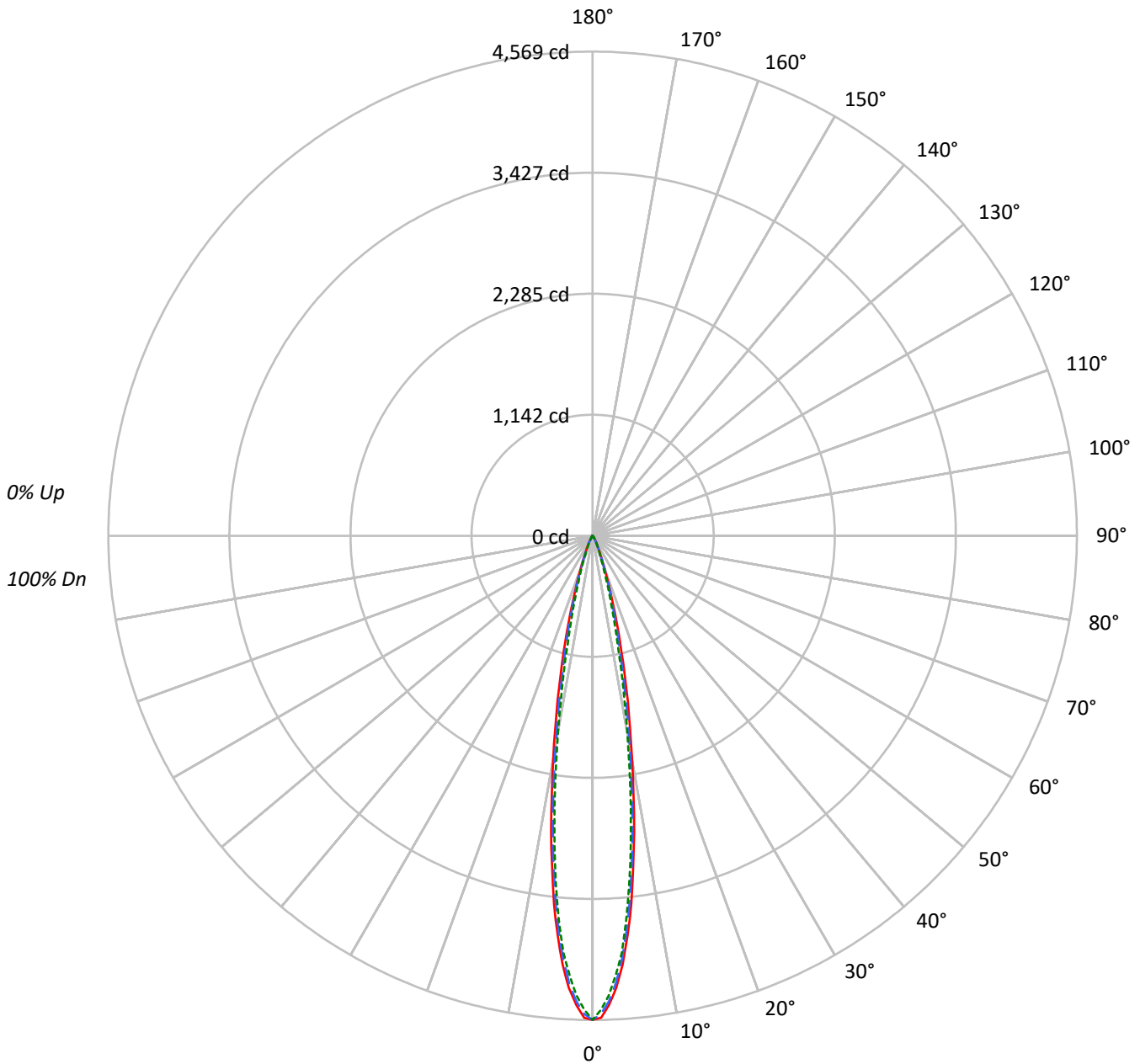
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	95	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2254022	2254022	2254022
5°	1875547	1841177	1804034
10°	1074336	1008107	940877
15°	477821	424395	355646
20°	173363	162968	129104
25°	66576	62166	53511
30°	28712	26718	23699
35°	13612	13612	11263
40°	6827	7020	5668
45°	3907	3698	3419
50°	2686	2456	2456
55°	2150	1548	1806
60°	1776	1085	1381
65°	1284	817	1284
70°	1010	577	1010
75°	762	762	762
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	48.1
10°-20°	240.5	38.9
20°-30°	58.0	9.4
30°-40°	14.8	2.4
40°-50°	4.4	0.7
50°-60°	1.9	0.3
60°-70°	0.9	0.1
70°-80°	0.3	0.1
80°-90°	0.0	0.0
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°	595.6	96.4
0°-40°	610.4	98.8
0°-60°	616.7	99.8
0°-90°	617.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	617.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4569	4569	4569	4569	4569	
5°	3787	3752	3718	3685	3643	306
15°	936	913	831	748	696	267
25°	122	123	114	104	98	63
35°	23	23	23	20	19	16
45°	6	6	5	5	5	5
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4568.7	4568.7	4568.7	4568.7	4568.7
1°	4548.2	4516.5	4512.7	4532.4	4474.2
2°	4432.0	4409.4	4396.4	4408.0	4342.1
3°	4272.3	4250.5	4226.9	4227.2	4153.6
4°	4054.9	4037.7	3997.9	3985.9	3943.2
5°	3787.1	3752.3	3717.7	3685.3	3642.7
6°	3491.2	3446.1	3396.7	3348.5	3304.8
7°	3143.0	3113.1	3047.9	2982.0	2945.0
8°	2815.7	2767.4	2691.3	2608.9	2577.5
9°	2463.7	2429.2	2341.8	2245.9	2214.6
10°	2144.5	2108.5	2012.3	1905.6	1878.1
11°	1844.9	1811.1	1711.1	1599.0	1569.8
12°	1591.6	1543.7	1428.8	1331.6	1303.0
13°	1339.3	1306.5	1197.7	1101.5	1046.2
14°	1124.7	1097.6	998.9	914.4	855.9
15°	935.5	913.3	830.9	748.4	696.3
16°	767.4	753.7	688.5	608.9	566.2
17°	622.6	609.9	568.4	495.1	459.1
18°	502.8	501.1	466.5	403.1	371.0
19°	413.7	413.0	381.3	328.0	301.6
20°	330.2	334.7	310.4	263.9	245.9
21°	269.2	271.7	252.3	217.1	200.8
22°	219.2	220.9	208.2	179.4	170.5
23°	179.7	180.8	170.2	148.7	140.9
24°	148.0	148.7	139.2	124.0	117.3
25°	122.3	123.0	114.2	103.6	98.3
26°	101.5	102.2	94.4	87.0	81.7
27°	84.2	85.6	77.9	73.3	67.7
28°	71.9	72.2	65.2	62.4	57.1
29°	58.8	61.0	55.0	52.5	48.6
30°	50.4	51.4	46.9	45.1	41.6
32.5°	33.5	34.2	32.1	30.7	27.8
35°	22.6	22.9	22.6	20.4	18.7
37.5°	15.5	15.5	15.9	13.4	12.7
40°	10.6	10.6	10.9	9.2	8.8
42.5°	7.8	7.8	7.4	6.3	6.3
45°	5.6	5.6	5.3	4.9	4.9
47.5°	4.6	4.2	3.9	3.9	3.9
50°	3.5	3.5	3.2	2.8	3.2
52.5°	2.8	2.8	2.5	2.5	2.5
55°	2.5	2.1	1.8	1.8	2.1
57.5°	1.8	1.8	1.4	1.4	1.8
60°	1.8	1.4	1.1	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.1	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.4	0.4	0.7
72.5°	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4
77.5°	0.4	0.4	0.0	0.0	0.4
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	1.4	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)