

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: P283629

Luminaire Tested: **LDA2B158027D010 EU2B15FL408027 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B158027D010 EU2B15FL408027 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1203.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

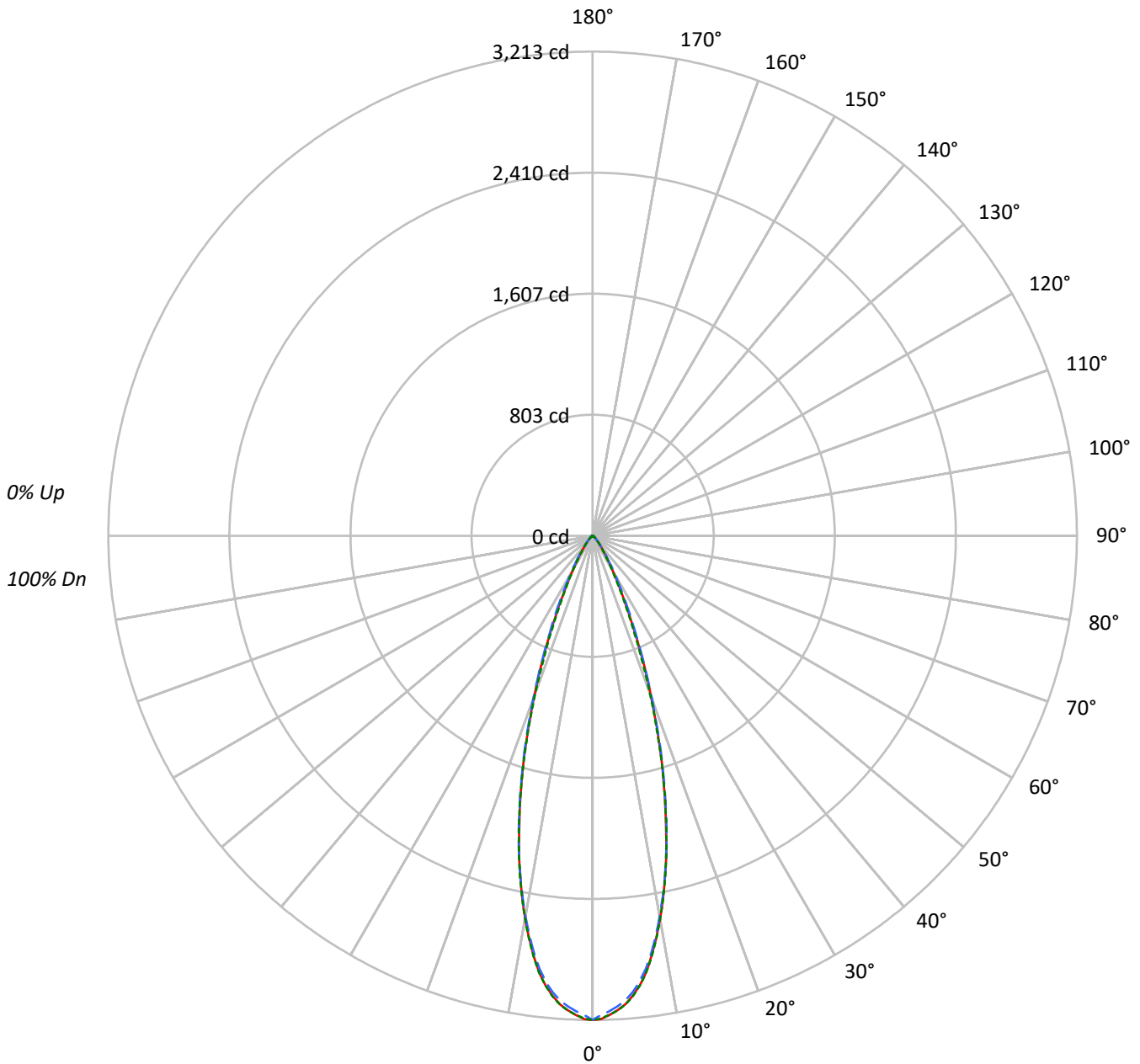
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1585171	1585171	1585171
5°	1516989	1505648	1519366
10°	1292409	1284294	1293762
15°	952578	958809	955694
20°	594643	605668	581570
25°	307185	329613	291725
30°	147264	168798	140370
35°	76008	84139	71130
40°	42571	44761	40446
45°	25885	25885	24978
50°	13432	16579	13432
55°	6967	11010	7569
60°	7992	7992	7992
65°	8639	8639	8639
70°	10674	9665	10674
75°	10293	10293	10293
80°	9660	9660	9660
85°	7359	7359	7359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	23.0
10°-20°	507.6	42.2
20°-30°	275.2	22.9
30°-40°	88.3	7.3
40°-50°	30.1	2.5
50°-60°	10.5	0.9
60°-70°	7.7	0.6
70°-80°	5.6	0.5
80°-90°	1.6	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°	1059.2	88.0
0°-40°	1147.6	95.4
0°-60°	1188.2	98.8
0°-90°	1203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3213	3213	3213	3213	3213	
5°	3063	3044	3040	3071	3068	277
15°	1865	1880	1877	1886	1871	506
25°	564	590	606	564	536	270
35°	126	132	140	127	118	85
45°	37	38	37	37	36	30
55°	8	10	13	10	9	9
65°	7	8	7	8	7	8
75°	5	5	5	5	5	6
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3213.0	3213.0	3213.0	3213.0	3213.0
1°	3207.6	3184.6	3181.3	3211.0	3204.2
2°	3181.9	3160.3	3157.0	3186.7	3180.6
3°	3153.6	3134.0	3127.3	3158.3	3154.3
4°	3115.8	3097.6	3091.5	3122.5	3119.2
5°	3063.1	3044.2	3040.2	3070.6	3067.9
6°	2998.3	2982.8	2975.4	3005.8	3000.4
7°	2917.3	2903.2	2895.1	2917.3	2920.0
8°	2812.0	2805.3	2795.8	2818.1	2818.1
9°	2700.0	2693.9	2683.8	2704.0	2704.0
10°	2579.8	2575.8	2563.6	2582.5	2582.5
11°	2448.2	2446.2	2437.4	2452.9	2452.9
12°	2309.8	2314.6	2306.5	2320.0	2315.2
13°	2171.5	2169.4	2170.1	2180.2	2172.8
14°	2014.9	2027.0	2029.0	2035.1	2023.6
15°	1865.0	1880.5	1877.2	1885.9	1871.1
16°	1711.8	1729.3	1728.7	1730.7	1716.5
17°	1568.7	1578.8	1579.5	1577.5	1559.9
18°	1416.1	1430.3	1430.3	1426.9	1406.0
19°	1267.0	1277.8	1285.2	1277.8	1253.5
20°	1132.6	1140.1	1153.6	1134.7	1107.7
21°	1003.7	1010.5	1021.9	999.7	970.0
22°	880.2	889.0	899.8	874.1	843.1
23°	764.8	785.0	789.1	754.0	727.6
24°	658.8	681.7	688.5	652.7	625.0
25°	564.3	589.9	605.5	563.6	535.9
26°	482.6	507.6	526.5	484.6	458.3
27°	411.1	437.4	457.0	417.8	392.8
28°	349.6	375.3	395.5	359.1	335.5
29°	303.7	318.6	338.8	308.5	286.9
30°	258.5	274.7	296.3	265.3	246.4
32.5°	177.5	186.3	203.2	184.3	169.4
35°	126.2	131.6	139.7	126.9	118.1
37.5°	89.8	92.5	97.2	89.8	85.0
40°	66.1	67.5	69.5	65.5	62.8
42.5°	49.3	49.9	49.9	48.6	47.2
45°	37.1	37.8	37.1	37.1	35.8
47.5°	27.0	29.0	28.3	28.3	26.3
50°	17.5	21.6	21.6	20.9	17.5
52.5°	10.8	14.8	16.9	14.8	11.5
55°	8.1	10.1	12.8	10.1	8.8
57.5°	8.1	8.1	9.4	8.1	8.1
60°	8.1	8.1	8.1	8.1	8.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	7.4	7.4	7.4	7.4	7.4
70°	7.4	7.4	6.7	7.4	7.4
72.5°	6.7	6.7	6.1	6.7	6.1
75°	5.4	5.4	5.4	5.4	5.4
77.5°	4.0	4.0	4.0	4.0	4.0
80°	3.4	3.4	3.4	3.4	3.4
82.5°	2.0	2.0	2.0	2.7	2.0
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	8.1	8.1	8.1	8.1	8.1
65°	7.4	8.1	7.4	8.1	7.4



(END OF REPORT)