

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: P282621

Luminaire Tested: **LDA2B058027D010 EU2B05NFL258027 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282621
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: LDA2B058027D010 EU2B05NFL258027 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 651.4 lumens
Efficiency: N/A
Efficacy: 93.1 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

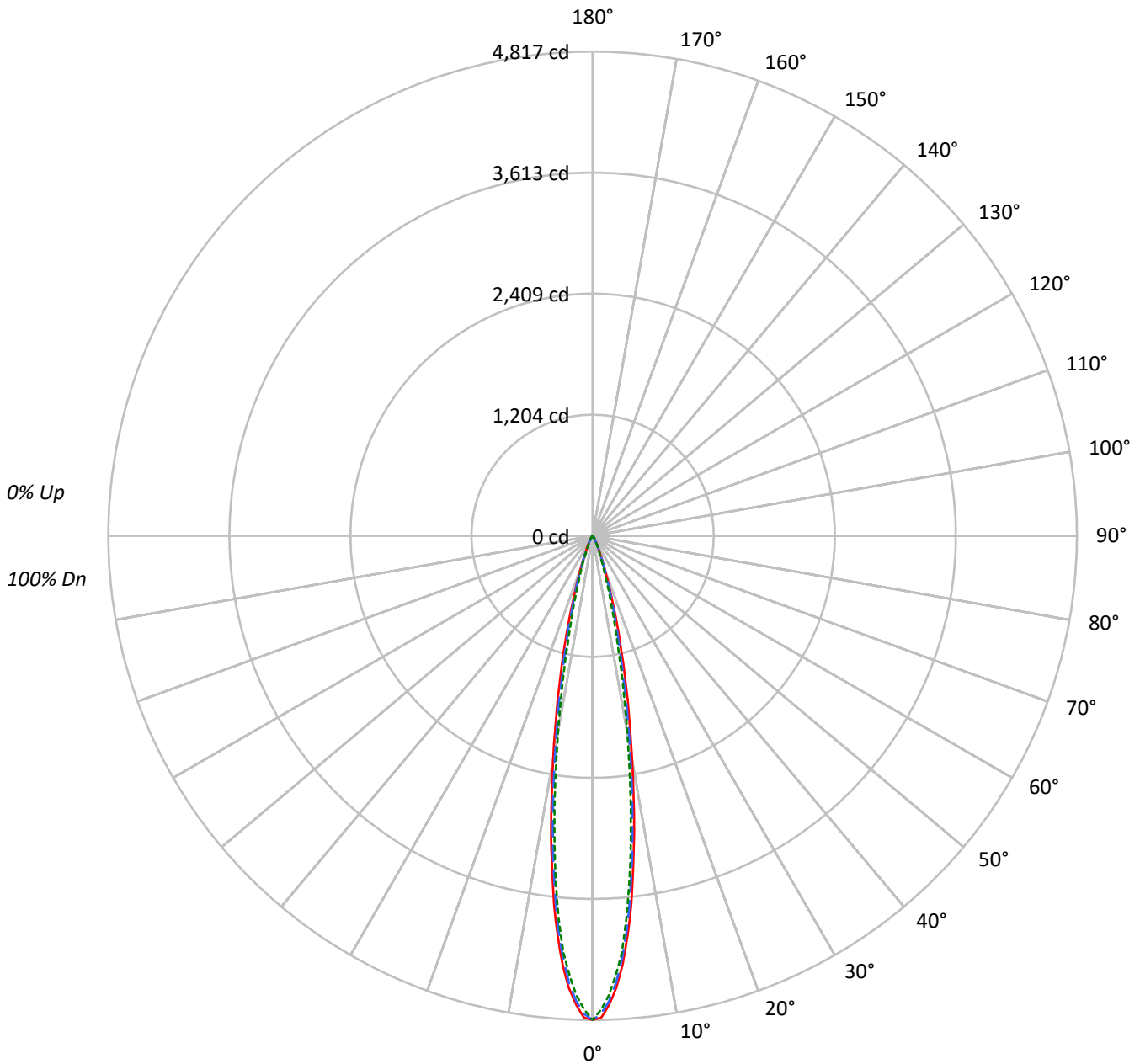
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	85	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°	2376474	2376474	2376474
5°	1977469	1941217	1902043
10°	1132699	1062864	991976
15°	503768	447431	374953
20°	182761	171841	136139
25°	70169	65541	56396
30°	30250	28142	24952
35°	14334	14334	11865
40°	7149	7406	5990
45°	4117	3907	3628
50°	2840	2533	2533
55°	2236	1634	1892
60°	1875	1085	1480
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°	313.3	48.1
10°-20°	253.5	38.9
20°-30°	61.1	9.4
30°-40°	15.6	2.4
40°-50°	4.6	0.7
50°-60°	2.0	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°	628.0	96.4
0°-40°	643.5	98.8
0°-60°	650.2	99.8
0°-90°	651.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	651.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4817	4817	4817	4817	4817	
5°	3993	3956	3920	3886	3841	323
15°	986	963	876	789	734	281
25°	129	130	120	109	104	67
35°	24	24	24	22	20	16
45°	6	6	6	5	5	5
55°	3	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°	4816.9	4816.9	4816.9	4816.9	4816.9
1°	4795.3	4761.9	4757.8	4778.6	4717.3
2°	4672.7	4649.0	4635.2	4647.5	4578.0
3°	4504.5	4481.4	4456.5	4456.9	4379.3
4°	4275.2	4257.0	4215.1	4202.4	4157.5
5°	3992.9	3956.1	3919.7	3885.5	3840.6
6°	3680.8	3633.3	3581.3	3530.4	3484.3
7°	3313.8	3282.2	3213.5	3144.0	3105.0
8°	2968.7	2917.8	2837.5	2750.6	2717.5
9°	2597.5	2561.1	2469.0	2368.0	2334.9
10°	2261.0	2223.1	2121.6	2009.1	1980.1
11°	1945.2	1909.5	1804.0	1685.9	1655.0
12°	1678.1	1627.5	1506.4	1403.9	1373.8
13°	1412.1	1377.5	1262.7	1161.3	1103.0
14°	1185.8	1157.2	1053.2	964.0	902.4
15°	986.3	962.9	876.0	789.1	734.1
16°	809.1	794.6	725.9	642.0	597.0
17°	656.4	643.1	599.2	522.0	484.1
18°	530.1	528.3	491.9	425.0	391.2
19°	436.1	435.4	402.0	345.9	318.0
20°	348.1	352.9	327.3	278.3	259.3
21°	283.8	286.4	266.0	228.8	211.8
22°	231.1	232.9	219.6	189.1	179.8
23°	189.5	190.6	179.4	156.8	148.6
24°	156.0	156.8	146.7	130.8	123.7
25°	128.9	129.7	120.4	109.2	103.6
26°	107.0	107.7	99.6	91.8	86.2
27°	88.8	90.3	82.1	77.3	71.3
28°	75.8	76.2	68.7	65.8	60.2
29°	62.0	64.3	58.0	55.4	51.3
30°	53.1	54.2	49.4	47.6	43.8
32.5°	35.3	36.0	33.8	32.3	29.3
35°	23.8	24.1	23.8	21.5	19.7
37.5°	16.3	16.3	16.7	14.1	13.4
40°	11.1	11.1	11.5	9.7	9.3
42.5°	8.2	8.2	7.8	6.7	6.7
45°	5.9	5.9	5.6	5.2	5.2
47.5°	4.8	4.5	4.1	4.1	4.1
50°	3.7	3.7	3.3	3.0	3.3
52.5°	3.0	3.0	2.6	2.6	2.6
55°	2.6	2.2	1.9	1.9	2.2
57.5°	1.9	1.9	1.5	1.5	1.9
60°	1.9	1.5	1.1	1.5	1.5



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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°	1.5	1.1	1.1	1.1	1.1
65°	1.1	1.1	0.7	0.7	1.1



(END OF REPORT)