

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: P282170

Luminaire Tested: **LDA2B059040D010 EU2B05NFL259040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282170
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 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 624.6 lumens
Efficiency: N/A
Efficacy: 89.2 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

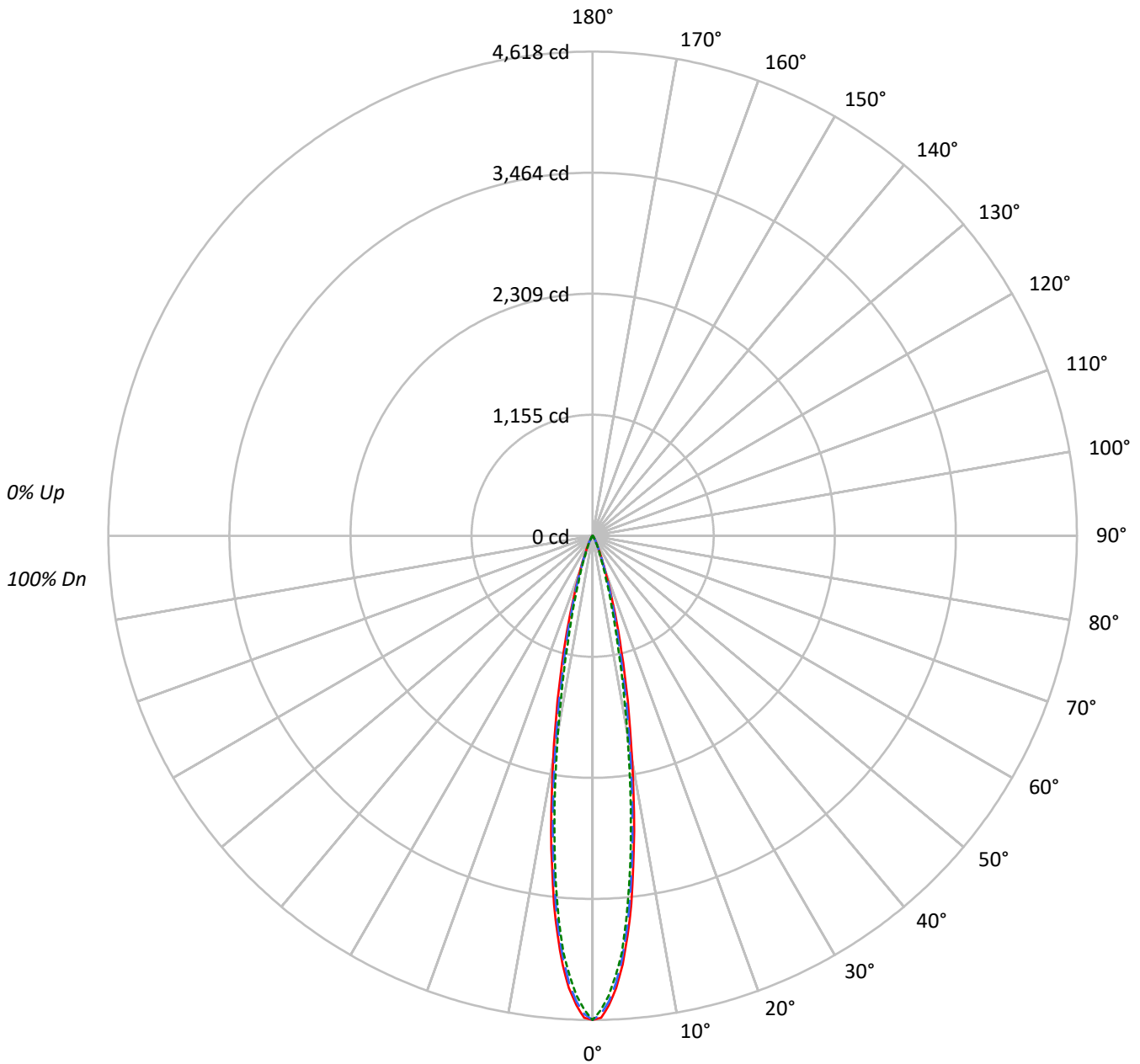
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97				97															
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92				92															
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90				90															
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88				88															
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86				86															
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84				84															
8	96	91	87	84	96	90	87	84	89	86	84	88	86	84	88	85	83	83				83															
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81				81															
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79				79															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2278443	2278443	2278443
5°	1895902	1861136	1823547
10°	1085958	1019029	951047
15°	482980	428992	359477
20°	175201	164753	130521
25°	67283	62820	54110
30°	28997	27003	23927
35°	13732	13732	11383
40°	6891	7084	5732
45°	3977	3698	3489
50°	2763	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°	300.4	48.1
10°-20°	243.1	38.9
20°-30°	58.6	9.4
30°-40°	14.9	2.4
40°-50°	4.5	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°	602.0	96.4
0°-40°	617.0	98.8
0°-60°	623.3	99.8
0°-90°	624.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4618	4618	4618	4618	4618	
5°	3828	3793	3758	3725	3682	310
15°	946	923	840	756	704	270
25°	124	124	115	105	99	64
35°	23	23	23	21	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°	4618.2	4618.2	4618.2	4618.2	4618.2
1°	4597.5	4565.5	4561.5	4581.5	4522.7
2°	4480.0	4457.2	4444.0	4455.8	4389.1
3°	4318.6	4296.5	4272.7	4273.0	4198.6
4°	4098.9	4081.4	4041.2	4029.1	3986.0
5°	3828.2	3792.9	3758.0	3725.2	3682.1
6°	3529.0	3483.4	3433.5	3384.7	3340.6
7°	3177.1	3146.8	3080.9	3014.3	2976.9
8°	2846.2	2797.4	2720.5	2637.1	2605.4
9°	2490.4	2455.5	2367.1	2270.3	2238.6
10°	2167.7	2131.4	2034.1	1926.2	1898.4
11°	1864.9	1830.7	1729.6	1616.3	1586.8
12°	1608.8	1560.4	1444.3	1346.0	1317.1
13°	1353.8	1320.7	1210.6	1113.4	1057.5
14°	1136.9	1109.5	1009.8	924.3	865.1
15°	945.6	923.2	839.9	756.5	703.8
16°	775.7	761.9	696.0	615.5	572.4
17°	629.4	616.5	574.5	500.4	464.1
18°	508.3	506.5	471.6	407.5	375.1
19°	418.1	417.4	385.4	331.6	304.9
20°	333.7	338.4	313.8	266.8	248.6
21°	272.1	274.6	255.0	219.4	203.0
22°	221.5	223.3	210.5	181.3	172.4
23°	181.6	182.7	172.0	150.3	142.5
24°	149.6	150.3	140.7	125.4	118.6
25°	123.6	124.3	115.4	104.7	99.4
26°	102.6	103.3	95.5	88.0	82.6
27°	85.1	86.6	78.7	74.1	68.4
28°	72.7	73.0	65.9	63.0	57.7
29°	59.5	61.6	55.6	53.1	49.2
30°	50.9	52.0	47.4	45.6	42.0
32.5°	33.8	34.5	32.4	31.0	28.1
35°	22.8	23.2	22.8	20.7	18.9
37.5°	15.7	15.7	16.0	13.5	12.8
40°	10.7	10.7	11.0	9.3	8.9
42.5°	7.8	7.8	7.5	6.4	6.4
45°	5.7	5.7	5.3	5.0	5.0
47.5°	4.6	4.3	3.9	3.9	3.9
50°	3.6	3.6	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)