

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: P282322

Luminaire Tested: **LDA2B159027D010 EU2B15NFL259027 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282322
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: LDA2B159027D010 EU2B15NFL259027 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MMS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1010.4 lumens
Efficiency: N/A
Efficacy: 71.7 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

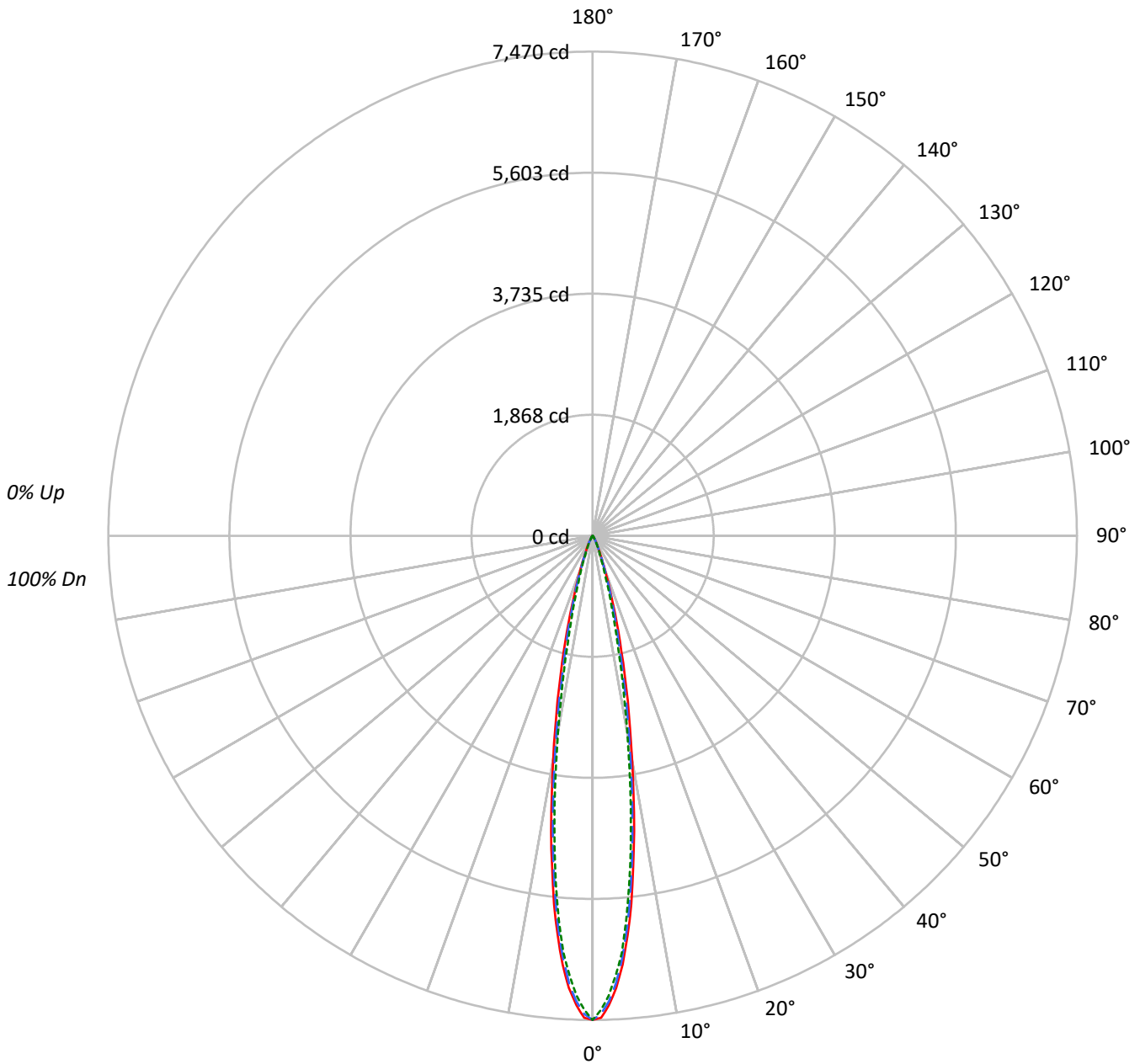
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3685659	3685659	3685659
5°	3066863	3010652	2949885
10°	1756661	1648451	1538487
15°	781318	693926	581507
20°	283461	266503	211165
25°	108818	101633	87479
30°	46942	43638	38739
35°	22224	22224	18370
40°	11142	11528	9274
45°	6419	6000	5652
50°	4452	3991	3991
55°	3441	2494	3011
60°	2861	1677	2269
65°	1985	1401	1985
70°	1731	865	1731
75°	1144	1144	1144
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.9	48.1
10°-20°	393.2	38.9
20°-30°	94.8	9.4
30°-40°	24.2	2.4
40°-50°	7.2	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	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°	973.9	96.4
0°-40°	998.1	98.8
0°-60°	1008.4	99.8
0°-90°	1010.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7470	7470	7470	7470	7470	
5°	6193	6136	6079	6026	5956	501
15°	1530	1493	1359	1224	1138	436
25°	200	201	187	169	161	103
35°	37	38	37	33	30	25
45°	9	9	9	8	8	8
55°	4	4	3	3	4	4
65°	2	2	1	1	2	2
75°	1	1	1	1	1	1
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°	7470.5	7470.5	7470.5	7470.5	7470.5
1°	7437.1	7385.3	7378.9	7411.2	7316.1
2°	7247.0	7210.1	7188.8	7207.8	7100.1
3°	6986.0	6950.3	6911.7	6912.2	6791.8
4°	6630.5	6602.3	6537.2	6517.6	6447.9
5°	6192.6	6135.6	6079.1	6026.1	5956.4
6°	5708.6	5634.9	5554.2	5475.3	5403.8
7°	5139.4	5090.4	4983.8	4876.1	4815.6
8°	4604.1	4525.2	4400.7	4265.9	4214.6
9°	4028.5	3972.1	3829.2	3672.5	3621.2
10°	3506.5	3447.8	3290.5	3115.9	3071.0
11°	3016.8	2961.5	2797.9	2614.6	2566.8
12°	2602.5	2524.2	2336.3	2177.3	2130.7
13°	2190.0	2136.4	1958.4	1801.1	1710.6
14°	1839.1	1794.8	1633.4	1495.1	1399.5
15°	1529.7	1493.4	1358.6	1223.8	1138.5
16°	1254.9	1232.4	1125.8	995.6	925.9
17°	1018.1	997.3	929.4	809.5	750.7
18°	822.2	819.3	762.8	659.1	606.7
19°	676.4	675.3	623.4	536.4	493.2
20°	539.9	547.4	507.6	431.5	402.2
21°	440.2	444.2	412.5	354.9	328.4
22°	358.4	361.3	340.5	293.3	278.9
23°	293.8	295.6	278.3	243.1	230.5
24°	242.0	243.1	227.6	202.8	191.9
25°	199.9	201.1	186.7	169.4	160.7
26°	165.9	167.1	154.4	142.3	133.7
27°	137.7	140.0	127.3	119.8	110.6
28°	117.5	118.1	106.6	102.0	93.3
29°	96.2	99.7	89.9	85.8	79.5
30°	82.4	84.1	76.6	73.7	68.0
32.5°	54.7	55.9	52.4	50.1	45.5
35°	36.9	37.5	36.9	33.4	30.5
37.5°	25.4	25.4	25.9	21.9	20.7
40°	17.3	17.3	17.9	15.0	14.4
42.5°	12.7	12.7	12.1	10.4	10.4
45°	9.2	9.2	8.6	8.1	8.1
47.5°	7.5	6.9	6.3	6.3	6.3
50°	5.8	5.8	5.2	4.6	5.2
52.5°	4.6	4.6	4.0	4.0	4.0
55°	4.0	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.3	2.3	2.9
60°	2.9	2.3	1.7	2.3	2.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.7	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.6	0.6	1.2
72.5°	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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°	2.3	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.2	1.2	1.7



(END OF REPORT)