

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: P282220

Luminaire Tested: **LDA2B108040D010 EU2B10NFL258040 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282220
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: LDA2B108040D010 EU2B10NFL258040 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 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: 1033.6 lumens
Efficiency: N/A
Efficacy: 103.4 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

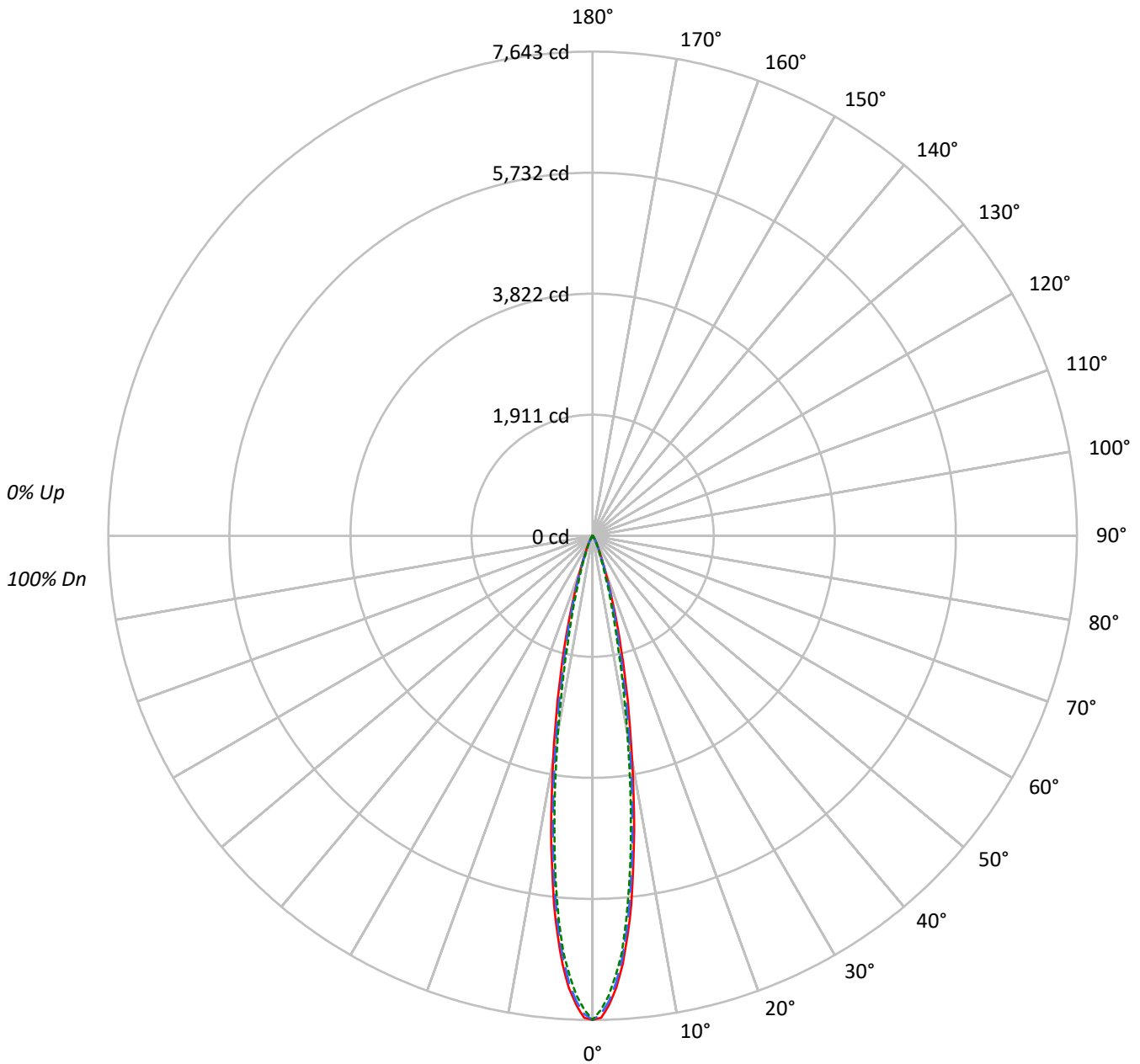
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	85	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°	3770665	3770665	3770665
5°	3137584	3080086	3017883
10°	1797189	1686474	1573956
15°	799348	709913	594940
20°	289971	272645	215995
25°	111323	103974	89548
30°	48024	44663	39650
35°	22706	22706	18791
40°	11399	11786	9467
45°	6559	6140	5791
50°	4528	4068	4068
55°	3527	2494	3011
60°	2861	1776	2368
65°	2101	1401	2101
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°	497.1	48.1
10°-20°	402.3	38.9
20°-30°	97.0	9.4
30°-40°	24.7	2.4
40°-50°	7.4	0.7
50°-60°	3.1	0.3
60°-70°	1.5	0.1
70°-80°	0.5	0.0
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°	996.4	96.4
0°-40°	1021.1	98.8
0°-60°	1031.6	99.8
0°-90°	1033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7643	7643	7643	7643	7643	
5°	6335	6277	6219	6165	6094	512
15°	1565	1528	1390	1252	1165	446
25°	204	206	191	173	164	106
35°	38	38	38	34	31	26
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°	7642.8	7642.8	7642.8	7642.8	7642.8
1°	7608.6	7555.6	7549.1	7582.1	7484.8
2°	7414.1	7376.4	7354.6	7374.0	7263.8
3°	7147.1	7110.5	7071.1	7071.6	6948.4
4°	6783.4	6754.5	6687.9	6667.9	6596.5
5°	6335.4	6277.1	6219.3	6165.1	6093.7
6°	5840.3	5764.8	5682.3	5601.6	5528.5
7°	5257.9	5207.8	5098.7	4988.5	4926.6
8°	4710.3	4629.5	4502.2	4364.3	4311.8
9°	4121.4	4063.7	3917.5	3757.2	3704.7
10°	3587.4	3527.3	3366.4	3187.7	3141.8
11°	3086.4	3029.8	2862.4	2674.9	2626.0
12°	2662.5	2582.4	2390.2	2227.5	2179.8
13°	2240.5	2185.7	2003.5	1842.6	1750.1
14°	1881.5	1836.1	1671.1	1529.6	1431.8
15°	1565.0	1527.9	1389.9	1252.0	1164.8
16°	1283.8	1260.8	1151.8	1018.6	947.2
17°	1041.6	1020.3	950.8	828.2	768.1
18°	841.1	838.2	780.4	674.3	620.7
19°	692.0	690.8	637.8	548.8	504.6
20°	552.3	560.0	519.3	441.5	411.4
21°	450.3	454.5	422.0	363.1	336.0
22°	366.6	369.6	348.4	300.0	285.3
23°	300.6	302.4	284.7	248.7	235.8
24°	247.6	248.7	232.8	207.5	196.3
25°	204.5	205.7	191.0	173.3	164.5
26°	169.8	170.9	158.0	145.6	136.8
27°	140.9	143.2	130.3	122.6	113.2
28°	120.2	120.8	109.0	104.3	95.5
29°	98.4	102.0	92.0	87.8	81.3
30°	84.3	86.1	78.4	75.4	69.6
32.5°	56.0	57.2	53.6	51.3	46.6
35°	37.7	38.3	37.7	34.2	31.2
37.5°	25.9	25.9	26.5	22.4	21.2
40°	17.7	17.7	18.3	15.3	14.7
42.5°	13.0	13.0	12.4	10.6	10.6
45°	9.4	9.4	8.8	8.3	8.3
47.5°	7.7	7.1	6.5	6.5	6.5
50°	5.9	5.9	5.3	4.7	5.3
52.5°	4.7	4.7	4.1	4.1	4.1
55°	4.1	3.5	2.9	2.9	3.5
57.5°	2.9	2.9	2.4	2.4	2.9
60°	2.9	2.4	1.8	2.4	2.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.8	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°	2.4	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)