

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: P282219

Luminaire Tested: **LDA2B108040D010 EU2B10NFL258040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282219
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1033.1 lumens
Efficiency: N/A
Efficacy: 103.3 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

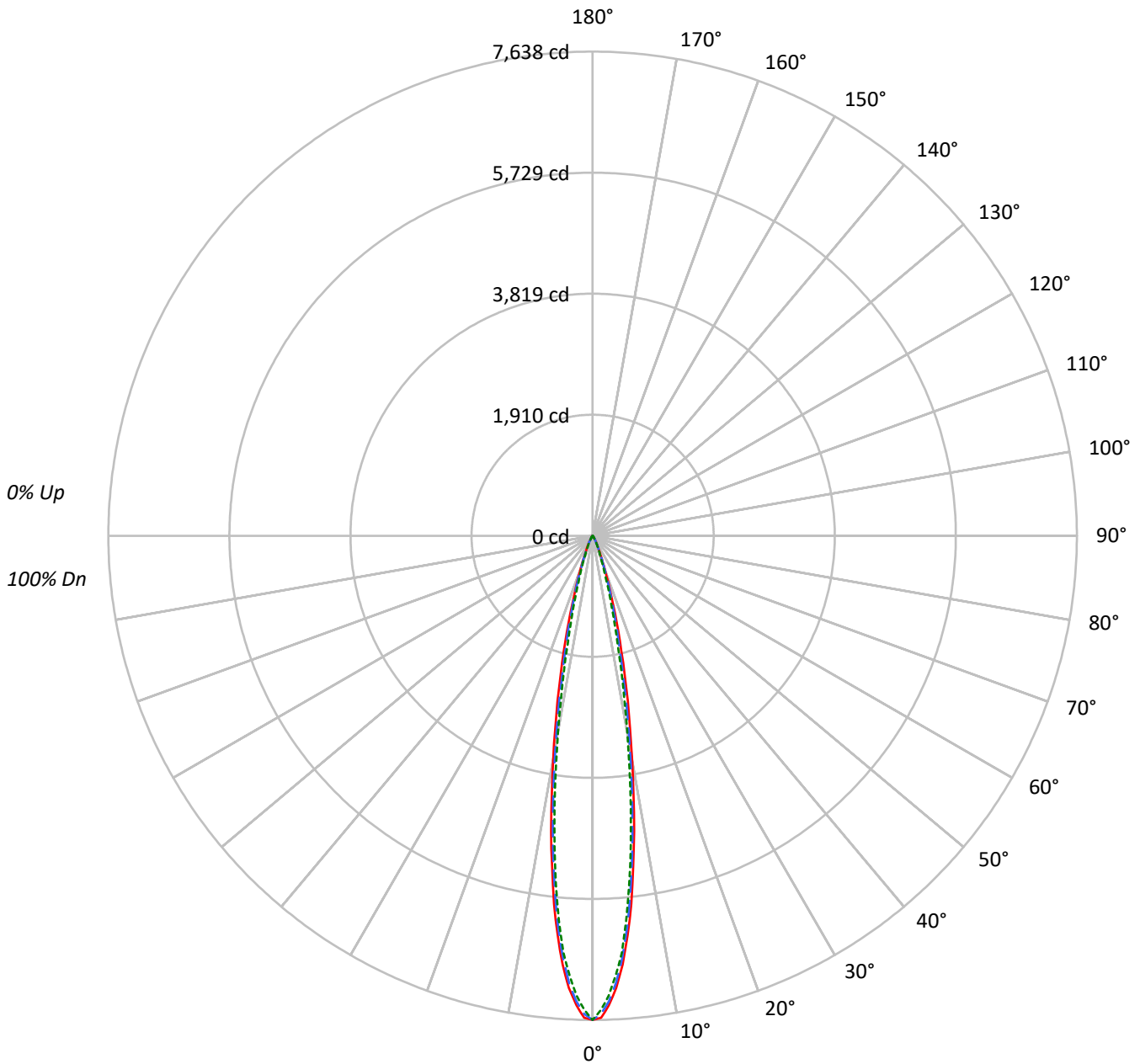
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	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°	3768544	3768544	3768544
5°	3135801	3078352	3016199
10°	1796187	1685473	1573054
15°	798889	709505	594582
20°	289814	272488	215890
25°	111268	103919	89494
30°	47967	44663	39593
35°	22706	22706	18791
40°	11399	11786	9467
45°	6559	6140	5721
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°	496.8	48.1
10°-20°	402.0	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°	995.8	96.4
0°-40°	1020.5	98.8
0°-60°	1031.0	99.8
0°-90°	1033.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7638	7638	7638	7638	7638	
5°	6332	6274	6216	6162	6090	512
15°	1564	1527	1389	1251	1164	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°	7638.5	7638.5	7638.5	7638.5	7638.5
1°	7604.3	7551.3	7544.8	7577.8	7480.6
2°	7409.9	7372.2	7350.4	7369.8	7259.7
3°	7143.0	7106.5	7067.0	7067.6	6944.5
4°	6779.5	6750.7	6684.1	6664.1	6592.8
5°	6331.8	6273.5	6215.8	6161.6	6090.3
6°	5837.0	5761.5	5679.1	5598.4	5525.3
7°	5254.9	5204.8	5095.8	4985.7	4923.8
8°	4707.6	4626.9	4499.7	4361.8	4309.4
9°	4119.1	4061.4	3915.3	3755.0	3702.6
10°	3585.4	3525.3	3364.4	3185.9	3140.0
11°	3084.6	3028.1	2860.7	2673.4	2624.5
12°	2661.0	2580.9	2388.9	2226.3	2178.5
13°	2239.2	2184.4	2002.4	1841.6	1749.1
14°	1880.5	1835.1	1670.1	1528.8	1431.0
15°	1564.1	1527.0	1389.1	1251.3	1164.1
16°	1283.1	1260.1	1151.1	1018.0	946.7
17°	1041.0	1019.8	950.2	827.7	767.6
18°	840.7	837.7	780.0	673.9	620.3
19°	691.6	690.4	637.4	548.5	504.3
20°	552.0	559.7	519.0	441.2	411.2
21°	450.1	454.2	421.8	362.9	335.8
22°	366.4	369.4	348.2	299.9	285.1
23°	300.4	302.2	284.5	248.6	235.6
24°	247.4	248.6	232.7	207.4	196.2
25°	204.4	205.6	190.9	173.2	164.4
26°	169.7	170.8	157.9	145.5	136.7
27°	140.8	143.2	130.2	122.5	113.1
28°	120.2	120.8	109.0	104.3	95.4
29°	98.4	101.9	91.9	87.8	81.3
30°	84.2	86.0	78.4	75.4	69.5
32.5°	56.0	57.1	53.6	51.3	46.5
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	8.2	8.2
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)