

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: P282226

Luminaire Tested: **LDA2B108050D010 EU2B10NFL258050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282226
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: LDA2B108050D010 EU2B10NFL258050 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: 1026.9 lumens
Efficiency: N/A
Efficacy: 102.7 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

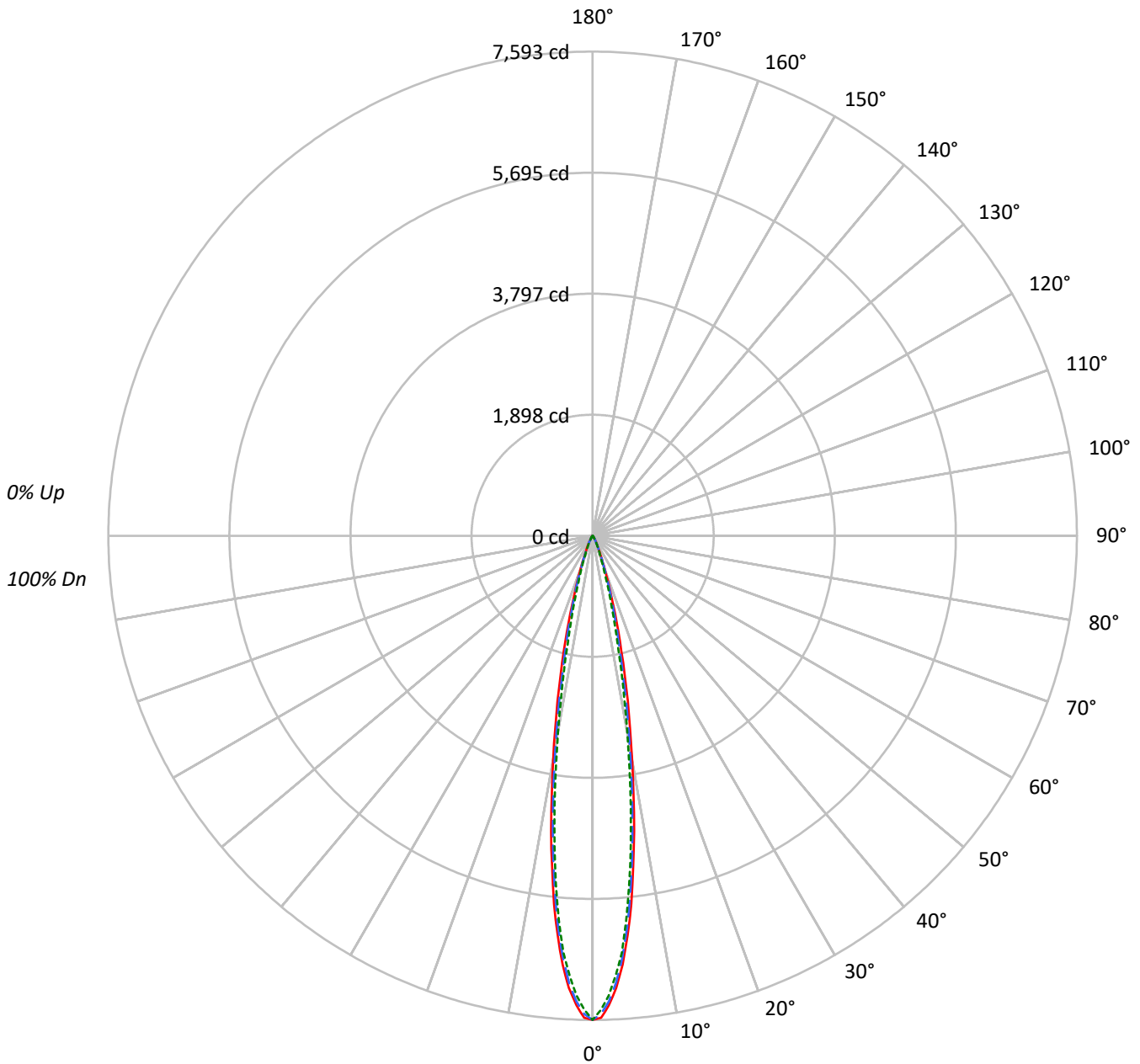
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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																			
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°	3746096	3746096	3746096
5°	3117130	3059979	2998221
10°	1785467	1675453	1563686
15°	794139	705316	591058
20°	288081	270860	214630
25°	110615	103266	88949
30°	47683	44378	39365
35°	22586	22586	18671
40°	11335	11721	9403
45°	6559	6140	5721
50°	4528	4068	4068
55°	3527	2494	3011
60°	2861	1776	2269
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°	493.8	48.1
10°-20°	399.6	38.9
20°-30°	96.4	9.4
30°-40°	24.6	2.4
40°-50°	7.3	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°	989.9	96.4
0°-40°	1014.4	98.8
0°-60°	1024.9	99.8
0°-90°	1026.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7593	7593	7593	7593	7593	
5°	6294	6236	6179	6125	6054	509
15°	1555	1518	1381	1244	1157	443
25°	203	204	190	172	163	105
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°	7593.0	7593.0	7593.0	7593.0	7593.0
1°	7559.0	7506.3	7499.9	7532.7	7436.0
2°	7365.8	7328.3	7306.6	7326.0	7216.4
3°	7100.5	7064.2	7025.0	7025.5	6903.1
4°	6739.2	6710.5	6644.3	6624.4	6553.5
5°	6294.1	6236.1	6178.7	6124.9	6054.0
6°	5802.2	5727.2	5645.3	5565.0	5492.4
7°	5223.6	5173.8	5065.5	4956.0	4894.5
8°	4679.6	4599.4	4472.9	4335.8	4283.7
9°	4094.6	4037.2	3891.9	3732.7	3680.5
10°	3564.0	3504.3	3344.4	3167.0	3121.3
11°	3066.2	3010.0	2843.7	2657.5	2608.9
12°	2645.2	2565.5	2374.6	2213.0	2165.6
13°	2225.9	2171.4	1990.5	1830.6	1738.7
14°	1869.3	1824.2	1660.2	1519.7	1422.4
15°	1554.8	1517.9	1380.9	1243.8	1157.2
16°	1275.5	1252.6	1144.3	1011.9	941.1
17°	1034.8	1013.7	944.6	822.8	763.0
18°	835.7	832.7	775.3	669.9	616.6
19°	687.5	686.3	633.6	545.2	501.3
20°	548.7	556.3	515.9	438.6	408.8
21°	447.4	451.5	419.3	360.7	333.8
22°	364.2	367.2	346.1	298.1	283.4
23°	298.7	300.4	282.8	247.1	234.2
24°	246.0	247.1	231.3	206.1	195.0
25°	203.2	204.4	189.7	172.2	163.4
26°	168.7	169.8	156.9	144.6	135.9
27°	140.0	142.3	129.4	121.8	112.4
28°	119.5	120.0	108.3	103.7	94.9
29°	97.8	101.3	91.4	87.3	80.8
30°	83.7	85.5	77.9	75.0	69.1
32.5°	55.6	56.8	53.3	50.9	46.3
35°	37.5	38.1	37.5	34.0	31.0
37.5°	25.8	25.8	26.4	22.3	21.1
40°	17.6	17.6	18.2	15.2	14.6
42.5°	12.9	12.9	12.3	10.5	10.5
45°	9.4	9.4	8.8	8.2	8.2
47.5°	7.6	7.0	6.4	6.4	6.4
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	2.3	2.3	2.9
60°	2.9	2.3	1.8	2.3	2.3



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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°	2.3	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.2	1.2	1.8



(END OF REPORT)