

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: P283606

Luminaire Tested: **LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109050D010 EU2B10FL409050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 827.1 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

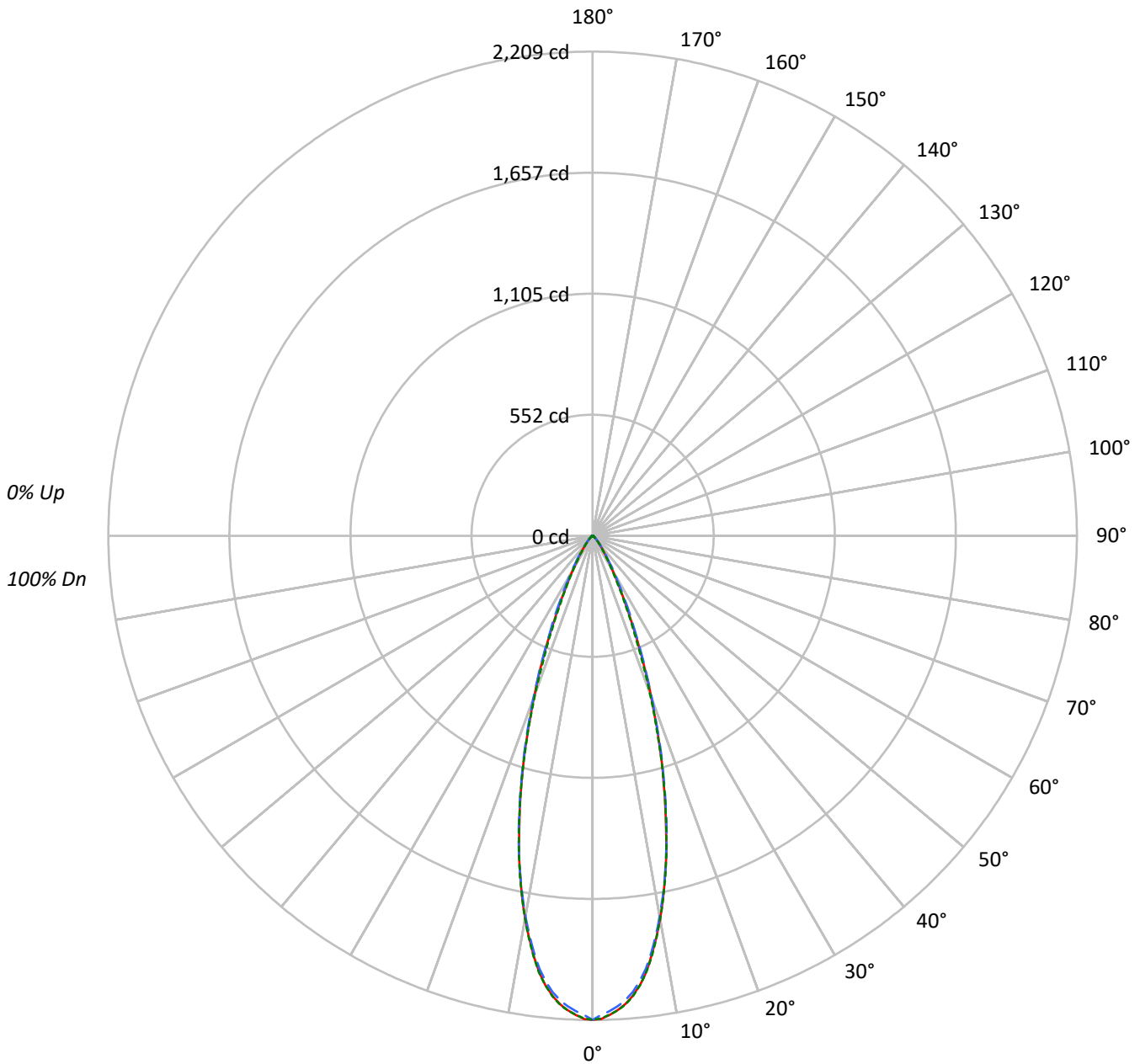
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1089738	1089738	1089738
5°	1042890	1035065	1044524
10°	888525	882914	889427
15°	654853	659143	656998
20°	408837	416345	399806
25°	211159	226565	200544
30°	101233	116045	96505
35°	52278	57879	48905
40°	29304	30785	27822
45°	17792	17792	17164
50°	9287	11360	9287
55°	4817	7569	5161
60°	5526	5526	5526
65°	5954	5954	5954
70°	7357	6635	7357
75°	7053	7053	7053
80°	6535	6535	6535
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	23.0
10°-20°	349.0	42.2
20°-30°	189.2	22.9
30°-40°	60.7	7.3
40°-50°	20.7	2.5
50°-60°	7.3	0.9
60°-70°	5.3	0.6
70°-80°	3.8	0.5
80°-90°	1.1	0.1
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°	728.2	88.0
0°-40°	788.9	95.4
0°-60°	816.9	98.8
0°-90°	827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	827.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2106	2093	2090	2111	2109	190
15°	1282	1293	1290	1296	1286	348
25°	388	406	416	388	368	186
35°	87	90	96	87	81	58
45°	26	26	26	26	25	20
55°	6	7	9	7	6	6
65°	5	6	5	6	5	5
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2208.8	2208.8	2208.8	2208.8	2208.8
1°	2205.1	2189.3	2187.0	2207.4	2202.8
2°	2187.5	2172.6	2170.3	2190.7	2186.6
3°	2168.0	2154.5	2149.9	2171.2	2168.5
4°	2142.0	2129.5	2125.3	2146.7	2144.3
5°	2105.8	2092.8	2090.0	2110.9	2109.1
6°	2061.3	2050.6	2045.5	2066.4	2062.7
7°	2005.6	1995.8	1990.3	2005.6	2007.4
8°	1933.2	1928.6	1922.1	1937.4	1937.4
9°	1856.2	1852.0	1845.0	1858.9	1858.9
10°	1773.6	1770.8	1762.4	1775.4	1775.4
11°	1683.1	1681.7	1675.7	1686.3	1686.3
12°	1587.9	1591.2	1585.6	1594.9	1591.7
13°	1492.8	1491.4	1491.9	1498.9	1493.7
14°	1385.2	1393.5	1394.9	1399.1	1391.2
15°	1282.1	1292.8	1290.5	1296.5	1286.3
16°	1176.8	1188.9	1188.4	1189.8	1180.1
17°	1078.4	1085.4	1085.9	1084.5	1072.4
18°	973.6	983.3	983.3	981.0	966.6
19°	871.0	878.4	883.5	878.4	861.7
20°	778.7	783.8	793.0	780.1	761.5
21°	690.0	694.7	702.6	687.2	666.8
22°	605.1	611.1	618.6	600.9	579.6
23°	525.8	539.7	542.5	518.3	500.2
24°	452.9	468.7	473.3	448.7	429.7
25°	387.9	405.6	416.2	387.5	368.4
26°	331.8	349.0	362.0	333.2	315.1
27°	282.6	300.7	314.2	287.2	270.1
28°	240.4	258.0	271.9	246.9	230.6
29°	208.8	219.0	232.9	212.1	197.2
30°	177.7	188.9	203.7	182.4	169.4
32.5°	122.0	128.1	139.7	126.7	116.5
35°	86.8	90.5	96.1	87.2	81.2
37.5°	61.7	63.6	66.8	61.7	58.5
40°	45.5	46.4	47.8	45.0	43.2
42.5°	33.9	34.3	34.3	33.4	32.5
45°	25.5	26.0	25.5	25.5	24.6
47.5°	18.6	20.0	19.5	19.5	18.1
50°	12.1	14.8	14.8	14.4	12.1
52.5°	7.4	10.2	11.6	10.2	7.9
55°	5.6	7.0	8.8	7.0	6.0
57.5°	5.6	5.6	6.5	5.6	5.6
60°	5.6	5.6	5.6	5.6	5.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	4.6	5.1	5.1
72.5°	4.6	4.6	4.2	4.6	4.2
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.4	1.4	1.4	1.9	1.4
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	5.6	5.6	5.6	5.6	5.6
65°	5.1	5.6	5.1	5.6	5.1



(END OF REPORT)