

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: P282242

Luminaire Tested: **LDA2B109030D010 EU2B10NFL259030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282242
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: LDA2B109030D010 EU2B10NFL259030 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MW
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 800.3 lumens
Efficiency: N/A
Efficacy: 80.0 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

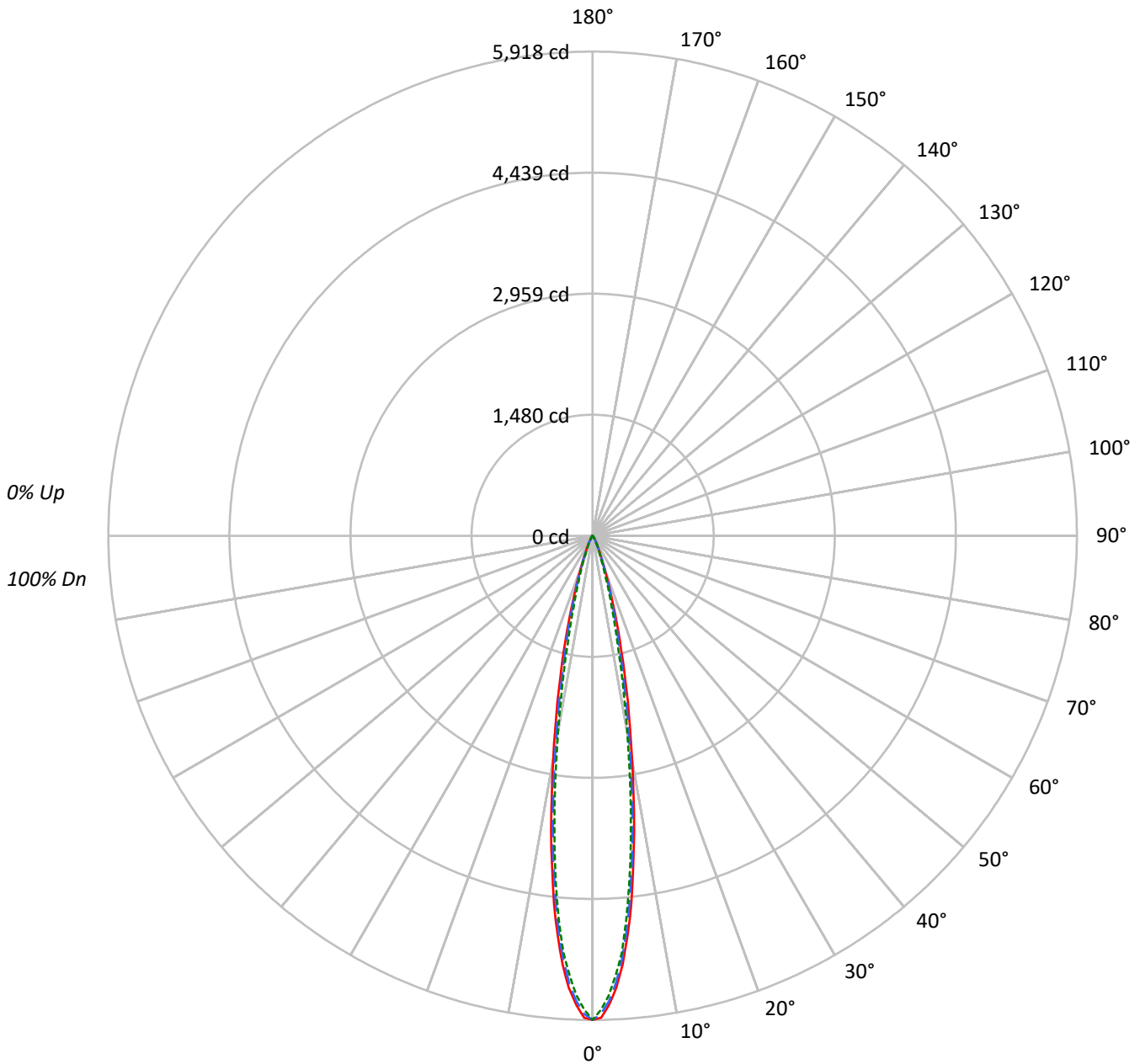
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	84	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°	2919518	2919518	2919518
5°	2429332	2384809	2336671
10°	1391502	1305785	1218666
15°	618895	549686	460609
20°	224501	211112	167273
25°	86227	80512	69298
30°	37200	34580	30706
35°	17587	17587	14575
40°	8823	9081	7342
45°	5093	4744	4465
50°	3531	3147	3147
55°	2752	1978	2322
60°	2269	1381	1776
65°	1634	1051	1634
70°	1298	721	1298
75°	953	953	953
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.9	48.1
10°-20°	311.5	38.9
20°-30°	75.1	9.4
30°-40°	19.1	2.4
40°-50°	5.7	0.7
50°-60°	2.4	0.3
60°-70°	1.2	0.1
70°-80°	0.4	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°	771.4	96.4
0°-40°	790.6	98.8
0°-60°	798.7	99.8
0°-90°	800.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5918	5918	5918	5918	5918	
5°	4905	4860	4815	4773	4718	397
15°	1212	1183	1076	969	902	346
25°	158	159	148	134	127	82
35°	29	30	29	26	24	20
45°	7	7	7	6	6	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5917.6	5917.6	5917.6	5917.6	5917.6
1°	5891.1	5850.1	5845.0	5870.6	5795.3
2°	5740.5	5711.3	5694.4	5709.5	5624.1
3°	5533.8	5505.5	5474.9	5475.4	5380.0
4°	5252.2	5229.8	5178.2	5162.7	5107.5
5°	4905.3	4860.1	4815.4	4773.4	4718.2
6°	4522.0	4463.5	4399.6	4337.1	4280.5
7°	4071.0	4032.2	3947.8	3862.5	3814.5
8°	3647.0	3584.5	3485.9	3379.1	3338.5
9°	3191.1	3146.4	3033.2	2909.1	2868.4
10°	2777.6	2731.1	2606.5	2468.2	2432.6
11°	2389.7	2345.9	2216.2	2071.1	2033.2
12°	2061.5	1999.5	1850.7	1724.7	1687.7
13°	1734.8	1692.3	1551.3	1426.7	1355.0
14°	1456.8	1421.7	1293.9	1184.3	1108.6
15°	1211.7	1183.0	1076.2	969.4	901.8
16°	994.0	976.2	891.8	788.6	733.4
17°	806.4	790.0	736.2	641.2	594.7
18°	651.3	649.0	604.3	522.1	480.6
19°	535.8	534.9	493.8	424.9	390.7
20°	427.6	433.6	402.1	341.8	318.6
21°	348.7	351.9	326.8	281.1	260.1
22°	283.9	286.2	269.7	232.3	220.9
23°	232.8	234.1	220.4	192.6	182.6
24°	191.7	192.6	180.3	160.7	152.0
25°	158.4	159.3	147.9	134.2	127.3
26°	131.4	132.4	122.3	112.7	105.9
27°	109.1	110.9	100.9	94.9	87.6
28°	93.1	93.6	84.4	80.8	73.9
29°	76.2	79.0	71.2	68.0	63.0
30°	65.3	66.6	60.7	58.4	53.9
32.5°	43.4	44.3	41.5	39.7	36.1
35°	29.2	29.7	29.2	26.5	24.2
37.5°	20.1	20.1	20.5	17.3	16.4
40°	13.7	13.7	14.1	11.9	11.4
42.5°	10.0	10.0	9.6	8.2	8.2
45°	7.3	7.3	6.8	6.4	6.4
47.5°	5.9	5.5	5.0	5.0	5.0
50°	4.6	4.6	4.1	3.7	4.1
52.5°	3.7	3.7	3.2	3.2	3.2
55°	3.2	2.7	2.3	2.3	2.7
57.5°	2.3	2.3	1.8	1.8	2.3
60°	2.3	1.8	1.4	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.9
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	1.8	1.4	1.4	1.4	1.4
65°	1.4	1.4	0.9	0.9	1.4



(END OF REPORT)