

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: P283929

Luminaire Tested: **LDA2B109035D010 EU2B10WFL559035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B109035D010 EU2B10WFL559035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 810.7 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

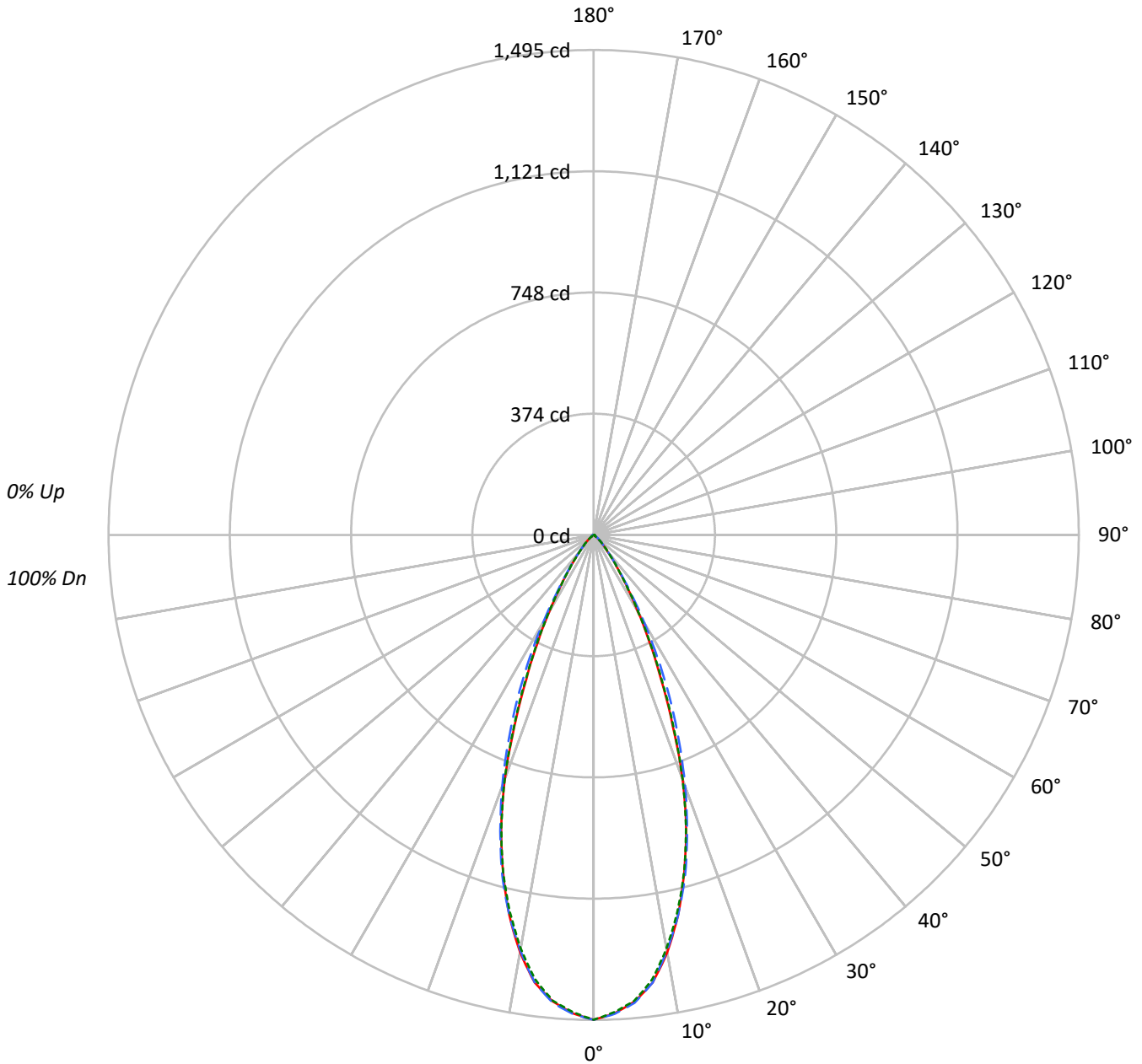
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84																			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79																			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71																			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	737428	737428	737428
5°	715235	716968	713749
10°	654671	652066	648158
15°	550708	555815	549788
20°	421122	432305	420440
25°	267446	301523	272618
30°	155524	175577	158259
35°	82212	87452	82453
40°	43408	45340	43408
45°	24281	25188	24560
50°	11360	14353	11360
55°	4129	7827	4473
60°	4736	4736	4736
65°	5020	5603	5020
70°	6203	5626	6203
75°	5719	5719	5719
80°	6251	4830	6251
85°	5095	5095	5095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	16.5
10°-20°	297.1	36.6
20°-30°	239.9	29.6
30°-40°	94.8	11.7
40°-50°	29.1	3.6
50°-60°	7.5	0.9
60°-70°	4.5	0.6
70°-80°	3.3	0.4
80°-90°	1.0	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°	670.4	82.7
0°-40°	765.2	94.4
0°-60°	801.8	98.9
0°-90°	810.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1444	1447	1448	1445	1441	134
15°	1078	1081	1088	1084	1076	296
25°	491	515	554	524	501	229
35°	136	140	145	141	137	91
45°	35	35	36	36	35	28
55°	5	6	9	6	5	6
65°	4	5	5	5	4	4
75°	3	3	3	3	3	3
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°	1494.7	1494.7	1494.7	1494.7	1494.7
2.5°	1476.0	1476.8	1478.1	1476.4	1472.1
5°	1444.2	1446.8	1447.7	1444.7	1441.2
7.5°	1392.1	1389.0	1391.6	1386.4	1382.1
10°	1306.8	1302.9	1301.6	1293.8	1293.8
12.5°	1201.6	1200.3	1201.2	1197.3	1191.2
15°	1078.2	1081.2	1088.2	1083.8	1076.4
17.5°	947.3	951.7	957.7	956.4	946.4
20°	802.1	814.7	823.4	815.1	800.8
22.5°	636.9	663.9	686.0	668.6	645.2
25°	491.3	514.7	553.9	524.3	500.8
27.5°	372.6	389.5	425.2	396.1	380.0
30°	273.0	283.5	308.2	289.1	277.8
32.5°	195.2	202.6	213.0	201.7	196.1
35°	136.5	140.4	145.2	140.9	136.9
37.5°	96.1	97.4	100.9	97.4	95.6
40°	67.4	67.8	70.4	68.3	67.4
42.5°	48.7	48.7	50.0	49.1	48.7
45°	34.8	35.2	36.1	35.6	35.2
47.5°	24.8	25.7	25.7	26.1	24.3
50°	14.8	18.3	18.7	18.3	14.8
52.5°	7.8	10.9	13.5	10.9	7.8
55°	4.8	6.5	9.1	6.5	5.2
57.5°	4.8	4.8	6.1	5.2	4.8
60°	4.8	4.8	4.8	4.8	4.8
62.5°	4.8	4.8	4.8	4.8	4.8
65°	4.3	4.8	4.8	4.8	4.3
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
72.5°	3.9	3.9	3.5	3.9	3.9
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.6	2.6	2.6	2.6	2.6
80°	2.2	2.2	1.7	2.2	2.2
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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







(END OF REPORT)