

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: P283945

Luminaire Tested: **LDA2B109050D010 EU2B10WFL559050 2LBALPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283945
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: LDA2B109050D010 EU2B10WFL559050 2LBALPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 1000 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ Pinhole w-lens, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 803.2 lumens
Efficiency: N/A
Efficacy: 80.3 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

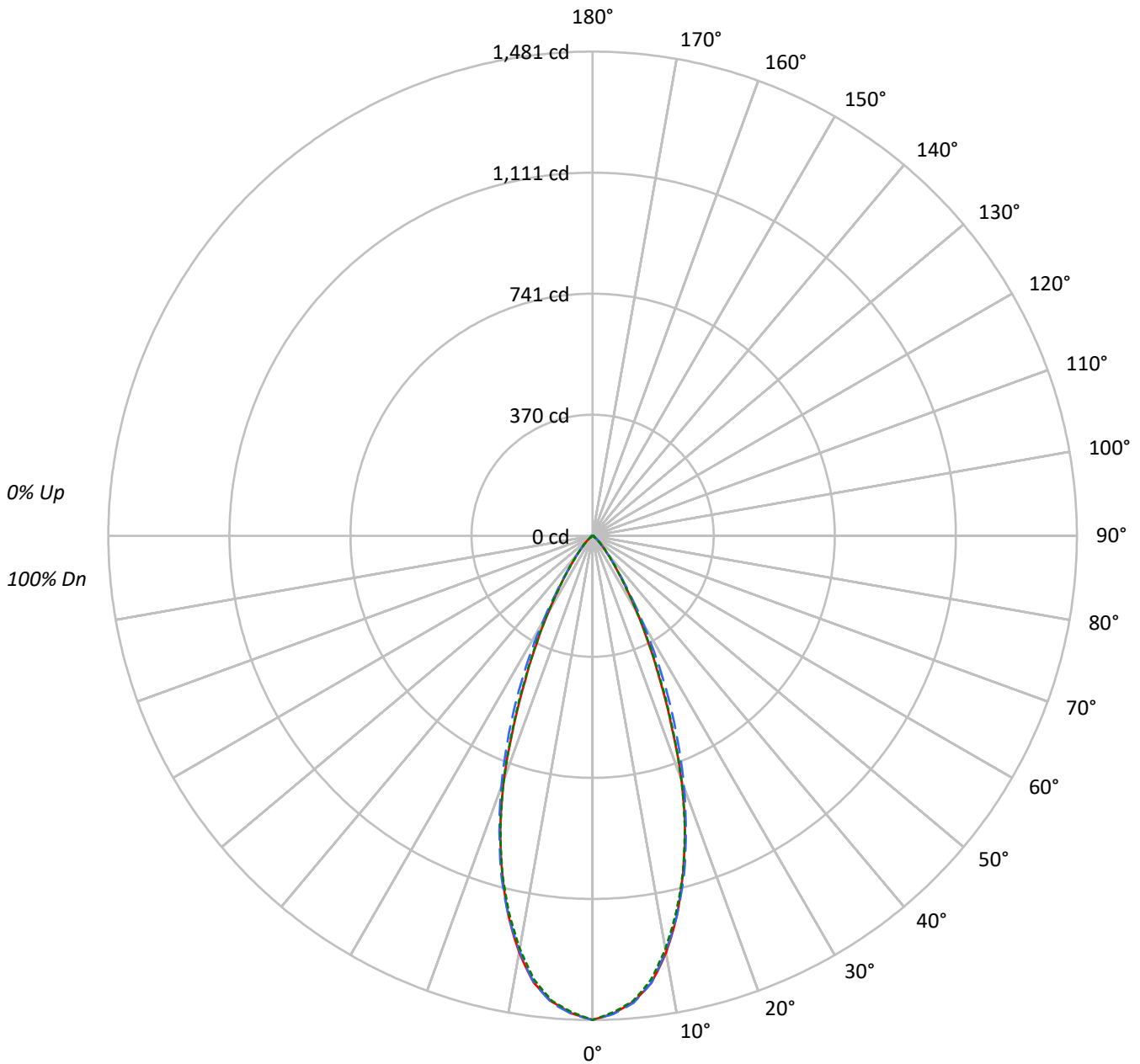
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	730570	730570	730570
5°	708598	710332	707113
10°	648609	646004	642147
15°	545600	550657	544681
20°	417237	428315	416555
25°	264942	298693	270114
30°	154100	173982	156777
35°	81429	86669	81730
40°	43022	44954	43022
45°	24071	24909	24350
50°	11206	14199	11206
55°	4043	7741	4473
60°	4638	4638	4638
65°	5020	5487	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°	132.2	16.5
10°-20°	294.3	36.6
20°-30°	237.7	29.6
30°-40°	93.9	11.7
40°-50°	28.8	3.6
50°-60°	7.4	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°	664.2	82.7
0°-40°	758.1	94.4
0°-60°	794.4	98.9
0°-90°	803.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1431	1433	1434	1431	1428	132
15°	1068	1071	1078	1074	1066	293
25°	487	510	549	519	496	227
35°	135	139	144	140	136	91
45°	34	35	36	35	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°	1480.8	1480.8	1480.8	1480.8	1480.8
2.5°	1462.3	1463.1	1464.4	1462.7	1458.4
5°	1430.8	1433.4	1434.3	1431.3	1427.8
7.5°	1379.1	1376.1	1378.7	1373.5	1369.2
10°	1294.7	1290.8	1289.5	1281.8	1281.8
12.5°	1190.5	1189.2	1190.1	1186.2	1180.1
15°	1068.2	1071.2	1078.1	1073.8	1066.4
17.5°	938.5	942.8	948.9	947.6	937.7
20°	794.7	807.2	815.8	807.6	793.4
22.5°	631.0	657.7	679.7	662.4	639.2
25°	486.7	510.0	548.7	519.4	496.2
27.5°	369.1	385.9	421.2	392.4	376.4
30°	270.5	280.8	305.4	286.4	275.2
32.5°	193.4	200.7	211.0	199.9	194.3
35°	135.2	139.1	143.9	139.6	135.7
37.5°	95.2	96.5	99.9	96.5	94.8
40°	66.8	67.2	69.8	67.6	66.8
42.5°	48.2	48.2	49.5	48.7	48.2
45°	34.5	34.9	35.7	35.3	34.9
47.5°	24.6	25.4	25.4	25.8	24.1
50°	14.6	18.1	18.5	18.1	14.6
52.5°	7.8	10.8	13.4	10.8	7.8
55°	4.7	6.5	9.0	6.5	5.2
57.5°	4.7	4.7	6.0	5.2	4.7
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.7	4.7	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	3.4	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)