

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: P283522

Luminaire Tested: **LDA2B059050D010 EU2B05FL409050 2LBAPINSQ1MMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283522
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: LDA2B059050D010 EU2B05FL409050 2LBAPINSQ1MMS
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MMS

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 608.8 lumens
Efficiency: N/A
Efficacy: 87.0 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

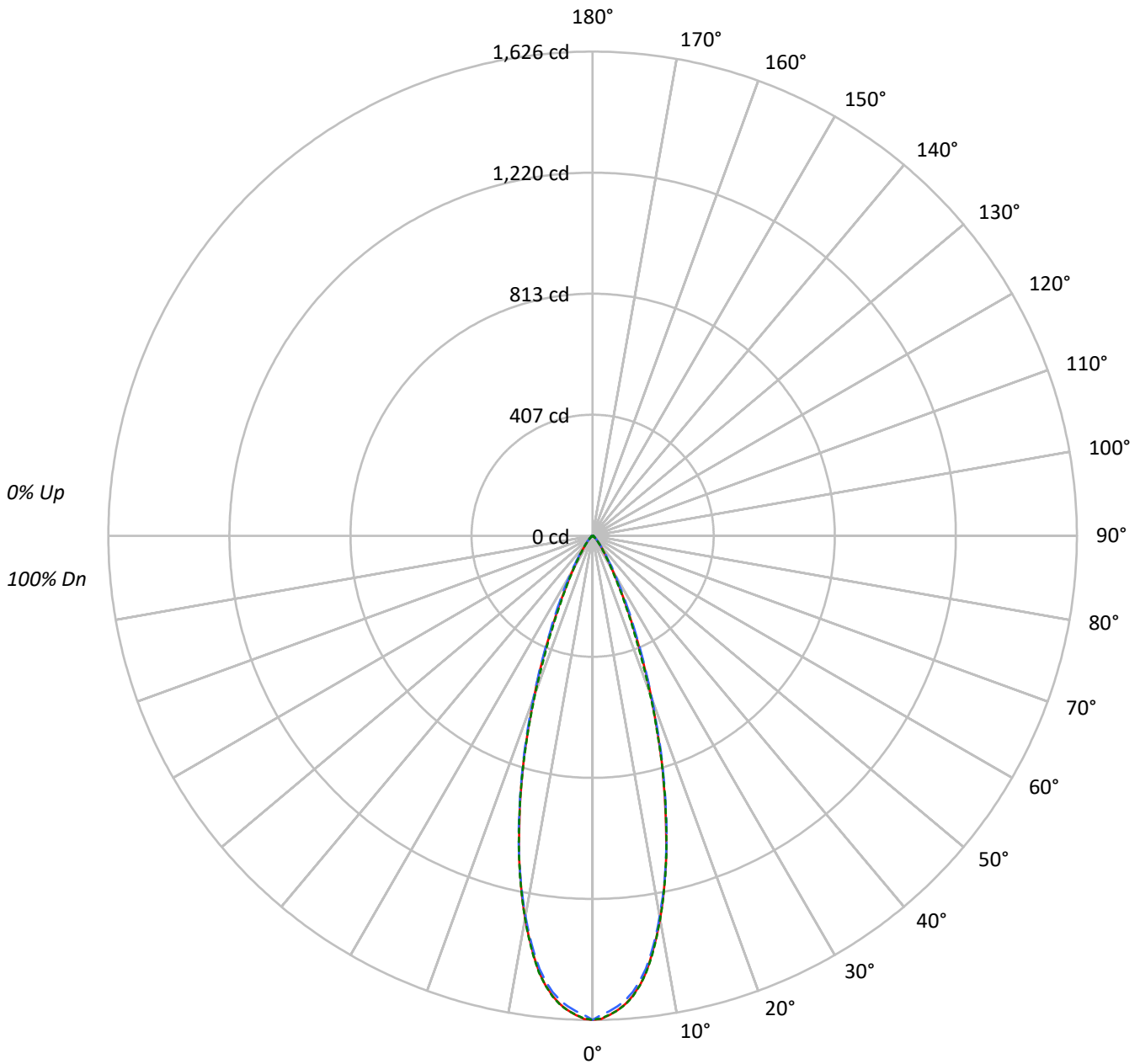
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	802157	802157	802157
5°	767632	761887	768820
10°	654020	649912	654671
15°	482061	485176	483593
20°	300944	306457	294276
25°	155471	166793	147632
30°	74515	85396	71040
35°	38486	42581	36017
40°	21575	22670	20480
45°	13117	13117	12629
50°	6831	8366	6831
55°	3527	5591	3785
60°	4046	4046	4046
65°	4436	4436	4436
70°	5481	4904	5481
75°	5147	5147	5147
80°	4830	4830	4830
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	23.0
10°-20°	256.9	42.2
20°-30°	139.3	22.9
30°-40°	44.7	7.3
40°-50°	15.2	2.5
50°-60°	5.3	0.9
60°-70°	3.9	0.6
70°-80°	2.8	0.5
80°-90°	0.8	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°	536.0	88.0
0°-40°	580.7	95.4
0°-60°	601.3	98.8
0°-90°	608.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1550	1540	1538	1554	1552	140
15°	944	952	950	954	947	256
25°	286	298	306	285	271	137
35°	64	67	71	64	60	43
45°	19	19	19	19	18	15
55°	4	5	6	5	4	4
65°	4	4	4	4	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°	1625.9	1625.9	1625.9	1625.9	1625.9
1°	1623.1	1611.5	1609.8	1624.8	1621.4
2°	1610.2	1599.2	1597.5	1612.5	1609.5
3°	1595.8	1585.9	1582.5	1598.2	1596.1
4°	1576.7	1567.5	1564.4	1580.1	1578.4
5°	1550.0	1540.5	1538.4	1553.8	1552.4
6°	1517.2	1509.4	1505.6	1521.0	1518.3
7°	1476.3	1469.1	1465.0	1476.3	1477.6
8°	1423.0	1419.6	1414.8	1426.0	1426.0
9°	1366.3	1363.2	1358.1	1368.3	1368.3
10°	1305.5	1303.4	1297.3	1306.8	1306.8
11°	1238.9	1237.8	1233.4	1241.3	1241.3
12°	1168.8	1171.2	1167.1	1174.0	1171.6
13°	1098.8	1097.8	1098.1	1103.3	1099.5
14°	1019.6	1025.7	1026.8	1029.8	1024.0
15°	943.8	951.6	949.9	954.3	946.8
16°	866.2	875.1	874.8	875.8	868.6
17°	793.8	798.9	799.3	798.2	789.4
18°	716.6	723.8	723.8	722.1	711.5
19°	641.1	646.6	650.3	646.6	634.3
20°	573.2	576.9	583.7	574.2	560.5
21°	507.9	511.3	517.1	505.9	490.8
22°	445.4	449.8	455.3	442.3	426.6
23°	387.0	397.2	399.3	381.5	368.2
24°	333.4	345.0	348.4	330.3	316.3
25°	285.6	298.5	306.4	285.2	271.2
26°	244.2	256.9	266.4	245.2	231.9
27°	208.0	221.3	231.2	211.4	198.8
28°	176.9	189.9	200.2	181.7	169.8
29°	153.7	161.2	171.5	156.1	145.2
30°	130.8	139.0	149.9	134.2	124.7
32.5°	89.8	94.3	102.8	93.2	85.7
35°	63.9	66.6	70.7	64.2	59.8
37.5°	45.4	46.8	49.2	45.4	43.0
40°	33.5	34.2	35.2	33.1	31.8
42.5°	24.9	25.3	25.3	24.6	23.9
45°	18.8	19.1	18.8	18.8	18.1
47.5°	13.7	14.7	14.3	14.3	13.3
50°	8.9	10.9	10.9	10.6	8.9
52.5°	5.5	7.5	8.5	7.5	5.8
55°	4.1	5.1	6.5	5.1	4.4
57.5°	4.1	4.1	4.8	4.1	4.1
60°	4.1	4.1	4.1	4.1	4.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.8	3.8	3.4	3.8	3.8
72.5°	3.4	3.4	3.1	3.4	3.1
75°	2.7	2.7	2.7	2.7	2.7
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.0	1.0	1.0	1.4	1.0
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0



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







62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.8	4.1	3.8	4.1	3.8



(END OF REPORT)