

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: P283521

Luminaire Tested: **LDA2B059050D010 EU2B05FL409050 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283521
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 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.0 lumens
Efficiency: N/A
Efficacy: 85.1 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

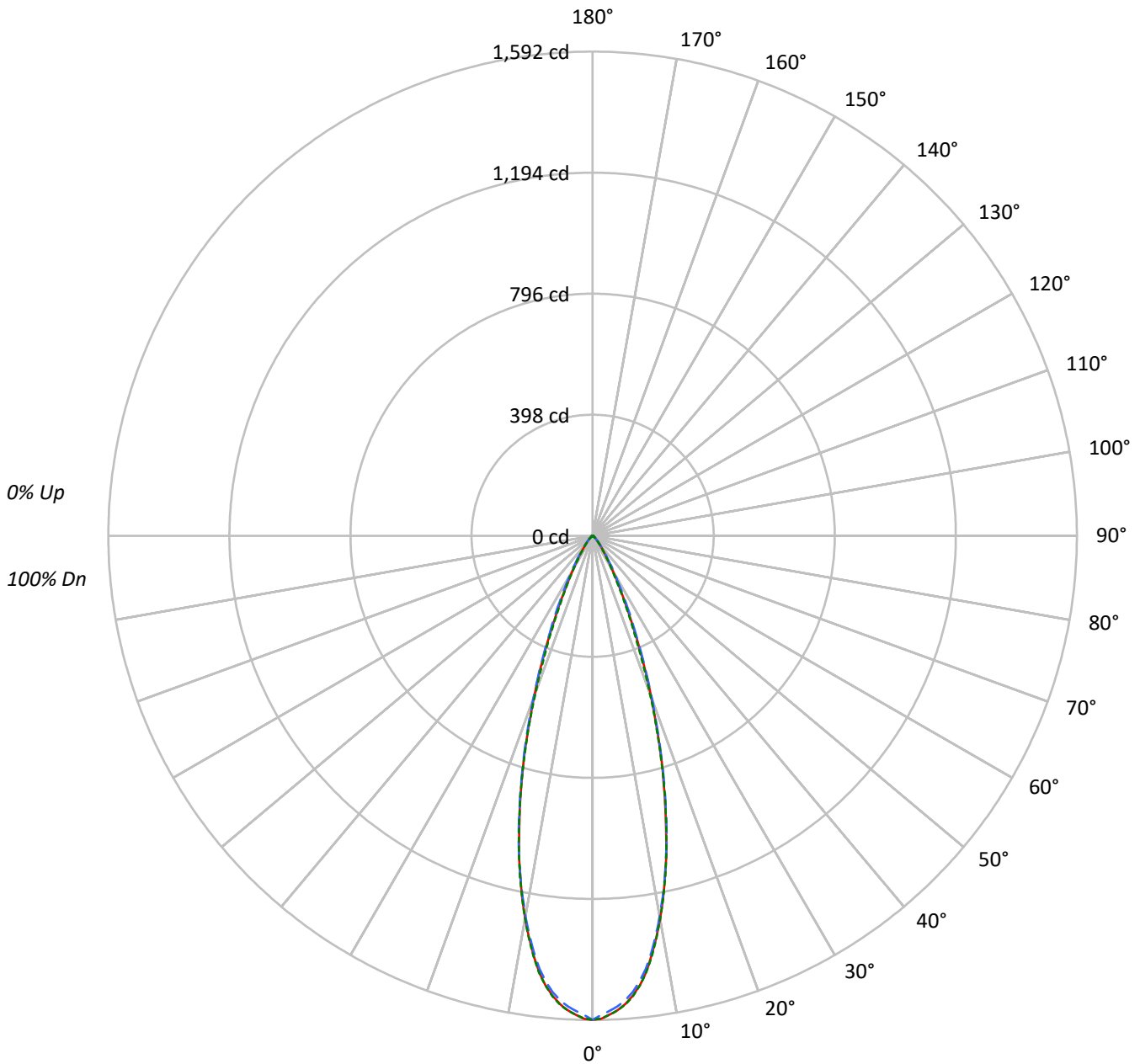
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	785284	785284	785284
5°	751536	745891	752675
10°	640293	636235	640944
15°	471896	475012	473429
20°	294591	300052	288081
25°	152204	163309	144529
30°	72977	83630	69559
35°	37643	41678	35234
40°	21124	22155	20030
45°	12838	12838	12350
50°	6678	8213	6678
55°	3441	5505	3699
60°	3947	3947	3947
65°	4319	4319	4319
70°	5337	4760	5337
75°	5147	5147	5147
80°	4830	4830	4830
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	23.0
10°-20°	251.5	42.2
20°-30°	136.3	22.9
30°-40°	43.8	7.3
40°-50°	14.9	2.5
50°-60°	5.2	0.9
60°-70°	3.8	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°	524.7	88.0
0°-40°	568.5	95.4
0°-60°	588.6	98.8
0°-90°	596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1518	1508	1506	1521	1520	137
15°	924	932	930	934	927	250
25°	280	292	300	279	266	134
35°	62	65	69	63	58	42
45°	18	19	18	18	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°	1591.7	1591.7	1591.7	1591.7	1591.7
1°	1589.0	1577.7	1576.0	1590.7	1587.4
2°	1576.3	1565.6	1564.0	1578.7	1575.7
3°	1562.3	1552.6	1549.3	1564.6	1562.6
4°	1543.6	1534.5	1531.5	1546.9	1545.2
5°	1517.5	1508.1	1506.1	1521.2	1519.8
6°	1485.4	1477.7	1474.0	1489.1	1486.4
7°	1445.3	1438.2	1434.2	1445.3	1446.6
8°	1393.1	1389.7	1385.1	1396.1	1396.1
9°	1337.6	1334.6	1329.6	1339.6	1339.6
10°	1278.1	1276.1	1270.0	1279.4	1279.4
11°	1212.9	1211.8	1207.5	1215.2	1215.2
12°	1144.3	1146.6	1142.6	1149.3	1147.0
13°	1075.7	1074.7	1075.1	1080.1	1076.4
14°	998.2	1004.2	1005.2	1008.2	1002.5
15°	923.9	931.6	930.0	934.3	926.9
16°	848.0	856.7	856.4	857.4	850.4
17°	777.1	782.2	782.5	781.5	772.8
18°	701.6	708.6	708.6	706.9	696.5
19°	627.7	633.0	636.7	633.0	621.0
20°	561.1	564.8	571.5	562.1	548.7
21°	497.2	500.6	506.3	495.2	480.5
22°	436.1	440.4	445.7	433.0	417.7
23°	378.9	388.9	390.9	373.5	360.5
24°	326.4	337.7	341.1	323.4	309.7
25°	279.6	292.3	300.0	279.2	265.5
26°	239.1	251.5	260.8	240.1	227.1
27°	203.6	216.7	226.4	207.0	194.6
28°	173.2	185.9	196.0	177.9	166.2
29°	150.5	157.8	167.9	152.8	142.1
30°	128.1	136.1	146.8	131.4	122.1
32.5°	87.9	92.3	100.7	91.3	83.9
35°	62.5	65.2	69.2	62.9	58.5
37.5°	44.5	45.8	48.2	44.5	42.1
40°	32.8	33.4	34.4	32.4	31.1
42.5°	24.4	24.7	24.7	24.1	23.4
45°	18.4	18.7	18.4	18.4	17.7
47.5°	13.4	14.4	14.0	14.0	13.0
50°	8.7	10.7	10.7	10.4	8.7
52.5°	5.4	7.4	8.4	7.4	5.7
55°	4.0	5.0	6.4	5.0	4.3
57.5°	4.0	4.0	4.7	4.0	4.0
60°	4.0	4.0	4.0	4.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.3	3.7	3.7
72.5°	3.3	3.3	3.0	3.3	3.0
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	1.3	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°	4.0	4.0	4.0	4.0	4.0
65°	3.7	4.0	3.7	4.0	3.7



(END OF REPORT)