

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: P283523

Luminaire Tested: **LDA2B059050D010 EU2B05FL409050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283523
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 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 581.2 lumens
Efficiency: N/A
Efficacy: 83.0 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

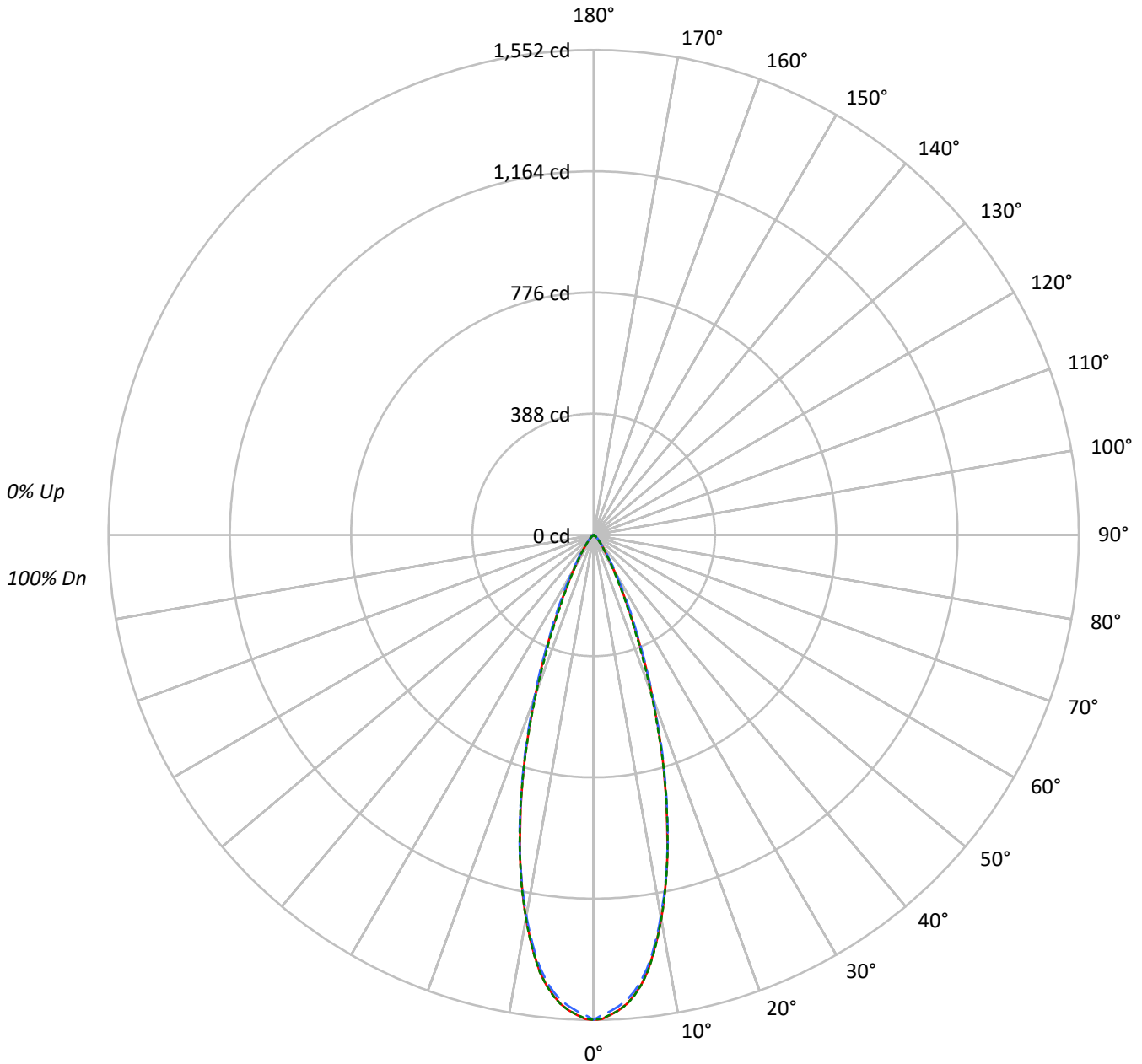
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	765697	765697	765697
5°	732816	727319	733906
10°	624312	620405	624963
15°	460149	463162	461630
20°	287241	292544	280941
25°	148394	159227	140936
30°	71154	81522	67793
35°	36739	40654	34390
40°	20609	21640	19514
45°	12489	12489	12071
50°	6524	7982	6524
55°	3355	5333	3613
60°	3848	3848	3848
65°	4203	4203	4203
70°	5193	4760	5193
75°	4956	4956	4956
80°	4546	4546	4546
85°	3962	3962	3962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	23.0
10°-20°	245.2	42.2
20°-30°	132.9	22.9
30°-40°	42.7	7.3
40°-50°	14.5	2.5
50°-60°	5.1	0.9
60°-70°	3.7	0.6
70°-80°	2.7	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°	511.7	88.0
0°-40°	554.3	95.4
0°-60°	574.0	98.8
0°-90°	581.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1480	1470	1469	1483	1482	134
15°	901	908	907	911	904	244
25°	273	285	292	272	259	131
35°	61	64	68	61	57	41
45°	18	18	18	18	17	14
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°	1552.0	1552.0	1552.0	1552.0	1552.0
1°	1549.4	1538.3	1536.7	1551.1	1547.8
2°	1537.0	1526.6	1525.0	1539.3	1536.4
3°	1523.4	1513.9	1510.6	1525.6	1523.7
4°	1505.1	1496.3	1493.4	1508.4	1506.7
5°	1479.7	1470.5	1468.6	1483.2	1481.9
6°	1448.4	1440.9	1437.3	1451.9	1449.3
7°	1409.2	1402.4	1398.5	1409.2	1410.5
8°	1358.4	1355.1	1350.5	1361.3	1361.3
9°	1304.2	1301.3	1296.4	1306.2	1306.2
10°	1246.2	1244.2	1238.4	1247.5	1247.5
11°	1182.6	1181.6	1177.4	1184.9	1184.9
12°	1115.8	1118.1	1114.1	1120.7	1118.4
13°	1048.9	1048.0	1048.3	1053.2	1049.6
14°	973.3	979.2	980.1	983.1	977.5
15°	900.9	908.4	906.8	911.0	903.8
16°	826.9	835.4	835.0	836.0	829.2
17°	757.8	762.7	763.0	762.0	753.5
18°	684.1	690.9	690.9	689.3	679.2
19°	612.0	617.2	620.8	617.2	605.5
20°	547.1	550.7	557.2	548.1	535.1
21°	484.9	488.1	493.7	482.9	468.5
22°	425.2	429.4	434.6	422.2	407.2
23°	369.4	379.2	381.2	364.2	351.5
24°	318.2	329.3	332.6	315.3	301.9
25°	272.6	285.0	292.5	272.3	258.9
26°	233.1	245.2	254.3	234.1	221.4
27°	198.6	211.3	220.7	201.8	189.8
28°	168.9	181.3	191.1	173.5	162.1
29°	146.7	153.9	163.7	149.0	138.6
30°	124.9	132.7	143.1	128.1	119.0
32.5°	85.8	90.0	98.1	89.0	81.8
35°	61.0	63.6	67.5	61.3	57.1
37.5°	43.4	44.7	47.0	43.4	41.1
40°	32.0	32.6	33.6	31.6	30.3
42.5°	23.8	24.1	24.1	23.5	22.8
45°	17.9	18.3	17.9	17.9	17.3
47.5°	13.0	14.0	13.7	13.7	12.7
50°	8.5	10.4	10.4	10.1	8.5
52.5°	5.2	7.2	8.2	7.2	5.5
55°	3.9	4.9	6.2	4.9	4.2
57.5°	3.9	3.9	4.6	3.9	3.9
60°	3.9	3.9	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.3	3.6	3.6
72.5°	3.3	3.3	2.9	3.3	2.9
75°	2.6	2.6	2.6	2.6	2.6
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.6	1.6	1.6	1.6	1.6
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°	3.9	3.9	3.9	3.9	3.9
65°	3.6	3.9	3.6	3.9	3.6



(END OF REPORT)