

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: P283511

Luminaire Tested: **LDA2B059035D010 EU2B05FL409035 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283511
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: LDA2B059035D010 EU2B05FL409035 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: 553.9 lumens
Efficiency: N/A
Efficacy: 79.1 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

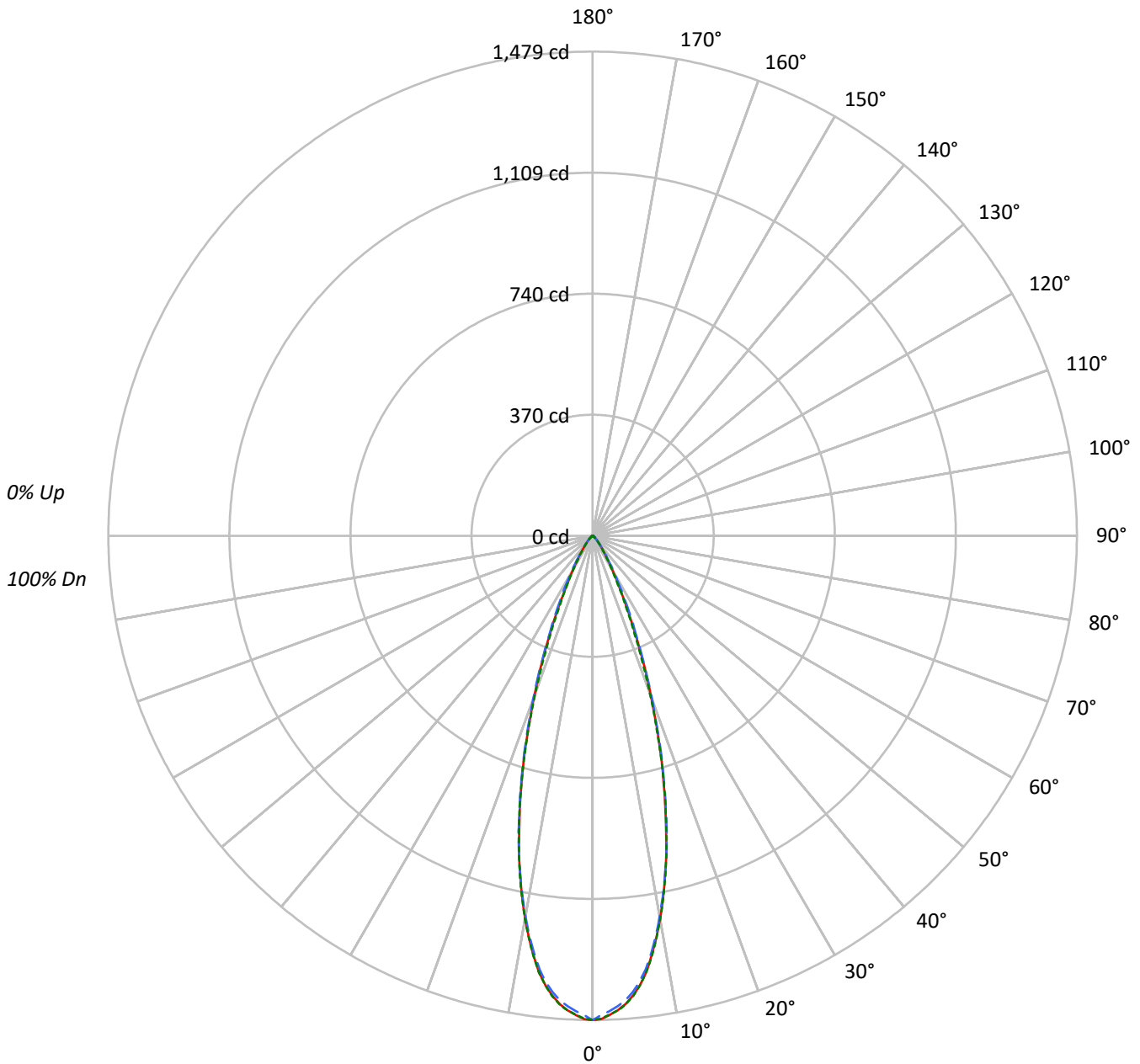
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90					90			
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86					86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82					82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75					75			
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72					72			
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	69	66	72	68	65	71	68	65	64					64			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	729830	729830	729830
5°	698446	693196	699486
10°	595055	591298	595657
15°	438595	441455	440025
20°	273800	278841	267763
25°	141426	151769	134349
30°	67793	77705	64602
35°	34993	38727	32764
40°	19643	20609	18613
45°	11931	11931	11512
50°	6217	7599	6217
55°	3183	5075	3441
60°	3651	3651	3651
65°	3969	3969	3969
70°	4904	4472	4904
75°	4766	4766	4766
80°	4546	4546	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	23.0
10°-20°	233.7	42.2
20°-30°	126.7	22.9
30°-40°	40.7	7.3
40°-50°	13.9	2.5
50°-60°	4.8	0.9
60°-70°	3.5	0.6
70°-80°	2.6	0.5
80°-90°	0.7	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°	487.7	88.0
0°-40°	528.3	95.4
0°-60°	547.1	98.8
0°-90°	553.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	553.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1479	1479	1479	1479	1479	
5°	1410	1402	1400	1414	1412	128
15°	859	866	864	868	862	233
25°	260	272	279	260	247	125
35°	58	61	64	58	54	39
45°	17	17	17	17	16	14
55°	4	5	6	5	4	4
65°	3	4	3	4	3	3
75°	2	2	2	2	2	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°	1479.3	1479.3	1479.3	1479.3	1479.3
1°	1476.8	1466.2	1464.7	1478.3	1475.2
2°	1465.0	1455.0	1453.5	1467.1	1464.3
3°	1451.9	1442.9	1439.8	1454.1	1452.2
4°	1434.5	1426.1	1423.3	1437.6	1436.1
5°	1410.3	1401.6	1399.7	1413.7	1412.4
6°	1380.4	1373.3	1369.9	1383.9	1381.4
7°	1343.1	1336.6	1332.9	1343.1	1344.4
8°	1294.7	1291.6	1287.2	1297.5	1297.5
9°	1243.1	1240.3	1235.6	1244.9	1244.9
10°	1187.8	1185.9	1180.3	1189.0	1189.0
11°	1127.2	1126.2	1122.2	1129.3	1129.3
12°	1063.5	1065.6	1061.9	1068.1	1065.9
13°	999.7	998.8	999.1	1003.8	1000.4
14°	927.6	933.2	934.2	937.0	931.7
15°	858.7	865.8	864.3	868.3	861.5
16°	788.1	796.2	795.9	796.8	790.3
17°	722.2	726.9	727.2	726.3	718.2
18°	652.0	658.5	658.5	657.0	647.3
19°	583.3	588.3	591.7	588.3	577.1
20°	521.5	524.9	531.1	522.4	510.0
21°	462.1	465.2	470.5	460.2	446.6
22°	405.2	409.3	414.3	402.4	388.2
23°	352.1	361.4	363.3	347.1	335.0
24°	303.3	313.9	317.0	300.5	287.8
25°	259.8	271.6	278.8	259.5	246.8
26°	222.2	233.7	242.4	223.1	211.0
27°	189.3	201.4	210.4	192.4	180.9
28°	161.0	172.8	182.1	165.3	154.5
29°	139.8	146.7	156.0	142.0	132.1
30°	119.0	126.5	136.4	122.1	113.4
32.5°	81.7	85.8	93.5	84.8	78.0
35°	58.1	60.6	64.3	58.4	54.4
37.5°	41.3	42.6	44.8	41.3	39.2
40°	30.5	31.1	32.0	30.1	28.9
42.5°	22.7	23.0	23.0	22.4	21.8
45°	17.1	17.4	17.1	17.1	16.5
47.5°	12.4	13.4	13.1	13.1	12.1
50°	8.1	9.9	9.9	9.6	8.1
52.5°	5.0	6.8	7.8	6.8	5.3
55°	3.7	4.7	5.9	4.7	4.0
57.5°	3.7	3.7	4.4	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.1	3.4	3.4
72.5°	3.1	3.1	2.8	3.1	2.8
75°	2.5	2.5	2.5	2.5	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.9	0.9	0.9	1.2	0.9
85°	0.6	0.6	0.6	0.6	0.6
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°	3.7	3.7	3.7	3.7	3.7
65°	3.4	3.7	3.4	3.7	3.4



(END OF REPORT)