

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: P283517

Luminaire Tested: **LDA2B059040D010 EU2B05FL409040 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283517
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: LDA2B059040D010 EU2B05FL409040 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: 565.7 lumens
Efficiency: N/A
Efficacy: 80.8 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

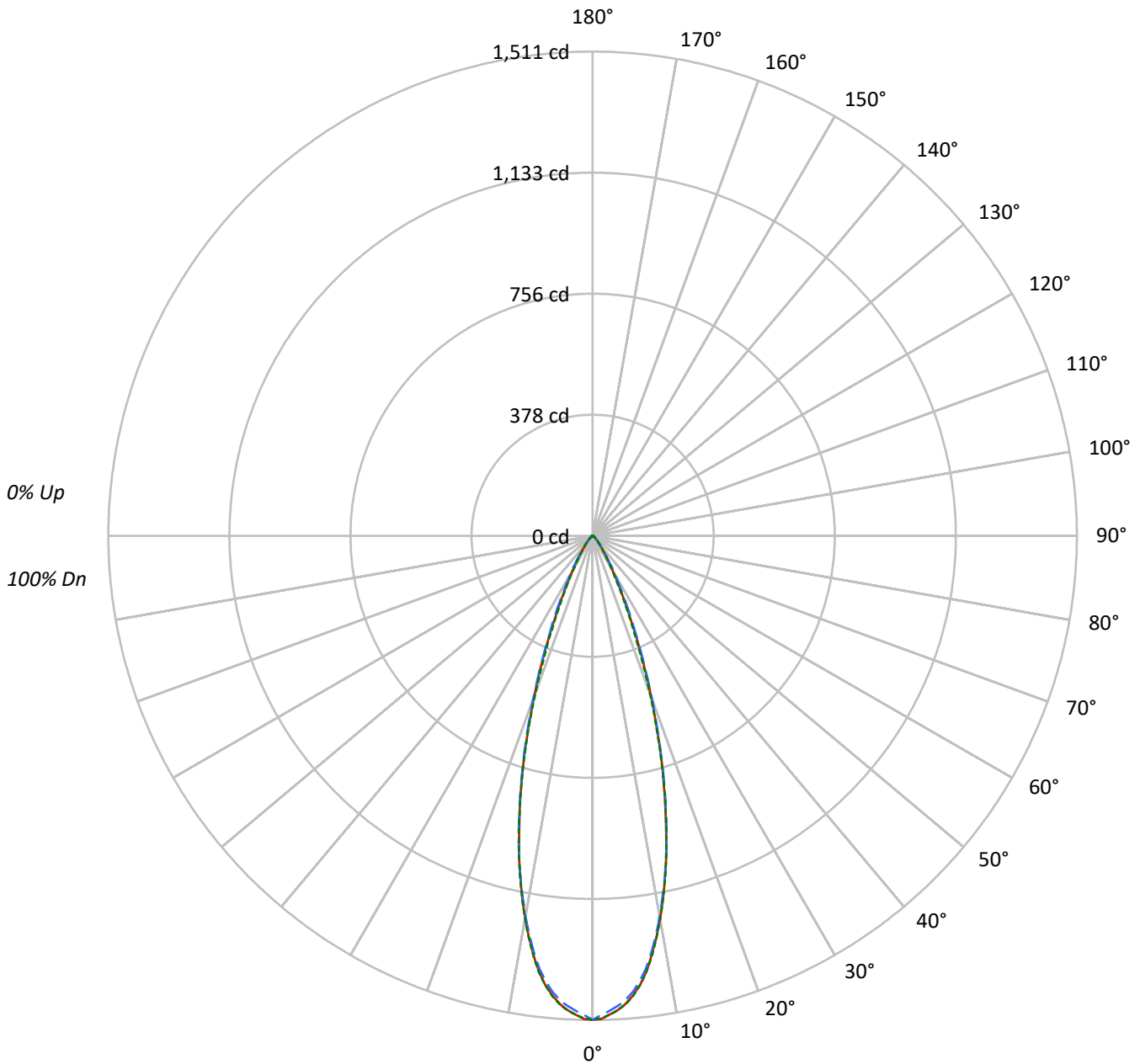
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	745322	745322	745322
5°	713303	707955	714393
10°	607680	603872	608331
15°	447890	450802	449372
20°	279628	284773	273433
25°	144420	154981	137180
30°	69274	79357	65970
35°	35715	39570	33427
40°	20030	21060	18999
45°	12210	12210	11722
50°	6371	7829	6371
55°	3269	5161	3527
60°	3750	3750	3750
65°	4086	4086	4086
70°	5049	4616	5049
75°	4766	4766	4766
80°	4546	4546	4546
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	23.0
10°-20°	238.7	42.2
20°-30°	129.4	22.9
30°-40°	41.5	7.3
40°-50°	14.2	2.5
50°-60°	5.0	0.9
60°-70°	3.6	0.6
70°-80°	2.6	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°	498.0	88.0
0°-40°	539.6	95.4
0°-60°	558.7	98.8
0°-90°	565.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1440	1431	1430	1444	1442	130
15°	877	884	883	887	880	238
25°	265	277	285	265	252	127
35°	59	62	66	60	56	40
45°	18	18	18	18	17	14
55°	4	5	6	5	4	4
65°	4	4	4	4	4	4
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°	1510.7	1510.7	1510.7	1510.7	1510.7
1°	1508.2	1497.4	1495.8	1509.8	1506.6
2°	1496.1	1486.0	1484.4	1498.3	1495.5
3°	1482.8	1473.6	1470.4	1485.0	1483.1
4°	1465.0	1456.4	1453.6	1468.2	1466.6
5°	1440.3	1431.4	1429.5	1443.7	1442.5
6°	1409.8	1402.5	1399.0	1413.3	1410.7
7°	1371.7	1365.0	1361.2	1371.7	1373.0
8°	1322.2	1319.0	1314.6	1325.0	1325.0
9°	1269.5	1266.6	1261.9	1271.4	1271.4
10°	1213.0	1211.1	1205.4	1214.3	1214.3
11°	1151.1	1150.2	1146.0	1153.3	1153.3
12°	1086.1	1088.3	1084.5	1090.8	1088.6
13°	1021.0	1020.0	1020.4	1025.1	1021.6
14°	947.4	953.1	954.0	956.9	951.5
15°	876.9	884.2	882.6	886.8	879.8
16°	804.9	813.1	812.8	813.8	807.1
17°	737.6	742.3	742.7	741.7	733.5
18°	665.9	672.5	672.5	670.9	661.1
19°	595.7	600.8	604.3	600.8	589.4
20°	532.6	536.0	542.4	533.5	520.8
21°	471.9	475.1	480.5	470.0	456.1
22°	413.9	418.0	423.1	411.0	396.4
23°	359.6	369.1	371.0	354.5	342.1
24°	309.8	320.6	323.7	306.9	293.9
25°	265.3	277.4	284.7	265.0	252.0
26°	226.9	238.7	247.6	227.9	215.5
27°	193.3	205.7	214.9	196.5	184.7
28°	164.4	176.5	186.0	168.8	157.7
29°	142.8	149.8	159.3	145.0	134.9
30°	121.6	129.2	139.3	124.7	115.8
32.5°	83.5	87.6	95.5	86.6	79.7
35°	59.3	61.9	65.7	59.7	55.5
37.5°	42.2	43.5	45.7	42.2	40.0
40°	31.1	31.7	32.7	30.8	29.5
42.5°	23.2	23.5	23.5	22.9	22.2
45°	17.5	17.8	17.5	17.5	16.8
47.5°	12.7	13.6	13.3	13.3	12.4
50°	8.3	10.2	10.2	9.8	8.3
52.5°	5.1	7.0	7.9	7.0	5.4
55°	3.8	4.8	6.0	4.8	4.1
57.5°	3.8	3.8	4.4	3.8	3.8
60°	3.8	3.8	3.8	3.8	3.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.5	3.5	3.5	3.5	3.5
70°	3.5	3.5	3.2	3.5	3.5
72.5°	3.2	3.2	2.9	3.2	2.9
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°	1.0	1.0	1.0	1.3	1.0
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°	3.8	3.8	3.8	3.8	3.8
65°	3.5	3.8	3.5	3.8	3.5



(END OF REPORT)