

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: P283512

Luminaire Tested: **LDA2B059035D010 EU2B05FL409035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283512
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 533.5 lumens
Efficiency: N/A
Efficacy: 76.2 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

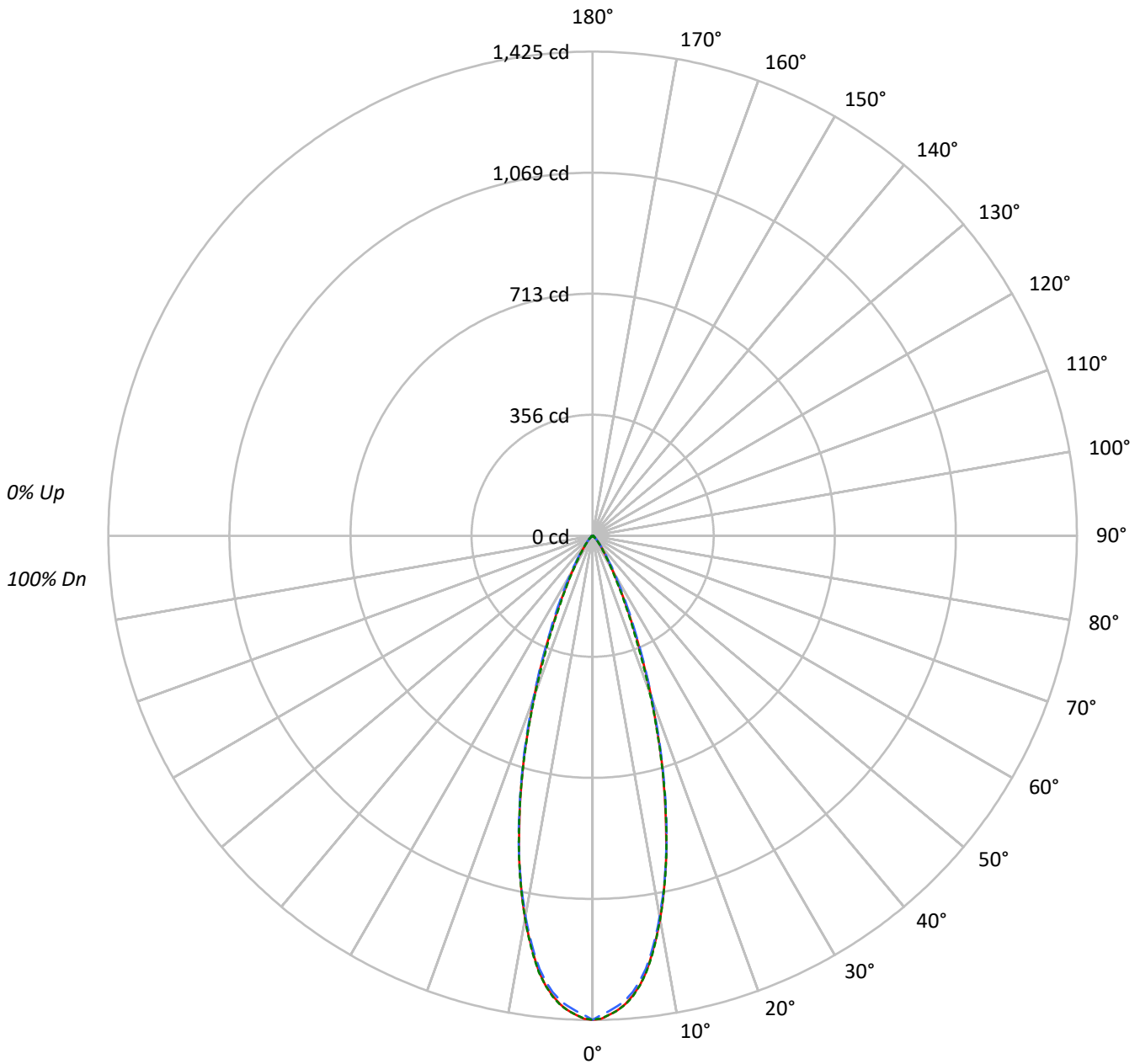
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	702893	702893	702893
5°	672693	667642	673733
10°	573113	569506	573714
15°	422403	425161	423782
20°	263667	268550	257892
25°	136200	146162	129395
30°	65286	74857	62210
35°	33728	37342	31560
40°	18870	19836	17904
45°	11512	11512	11094
50°	5987	7368	5987
55°	3097	4903	3355
60°	3552	3552	3552
65°	3852	3852	3852
70°	4760	4327	4760
75°	4575	4575	4575
80°	4262	4262	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	23.0
10°-20°	225.1	42.2
20°-30°	122.0	22.9
30°-40°	39.2	7.3
40°-50°	13.4	2.5
50°-60°	4.7	0.9
60°-70°	3.4	0.6
70°-80°	2.5	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°	469.7	88.0
0°-40°	508.9	95.4
0°-60°	526.9	98.8
0°-90°	533.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1358	1350	1348	1362	1360	123
15°	827	834	832	836	830	224
25°	250	262	268	250	238	120
35°	56	58	62	56	52	38
45°	16	17	16	16	16	13
55°	4	4	6	4	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°	1424.7	1424.7	1424.7	1424.7	1424.7
1°	1422.3	1412.2	1410.7	1423.8	1420.8
2°	1411.0	1401.4	1399.9	1413.1	1410.4
3°	1398.4	1389.7	1386.7	1400.5	1398.7
4°	1381.6	1373.6	1370.9	1384.6	1383.1
5°	1358.3	1349.9	1348.1	1361.6	1360.4
6°	1329.6	1322.7	1319.4	1332.8	1330.5
7°	1293.6	1287.4	1283.8	1293.6	1294.8
8°	1246.9	1244.0	1239.8	1249.6	1249.6
9°	1197.3	1194.6	1190.1	1199.1	1199.1
10°	1144.0	1142.2	1136.8	1145.2	1145.2
11°	1085.6	1084.7	1080.8	1087.7	1087.7
12°	1024.3	1026.3	1022.8	1028.7	1026.6
13°	962.9	962.0	962.3	966.8	963.5
14°	893.5	898.8	899.7	902.4	897.3
15°	827.0	833.9	832.4	836.3	829.7
16°	759.1	766.8	766.5	767.4	761.2
17°	695.6	700.1	700.4	699.5	691.7
18°	628.0	634.2	634.2	632.8	623.5
19°	561.8	566.6	569.9	566.6	555.8
20°	502.2	505.5	511.5	503.1	491.2
21°	445.1	448.1	453.2	443.3	430.1
22°	390.3	394.2	399.0	387.6	373.8
23°	339.1	348.1	349.9	334.3	322.7
24°	292.1	302.3	305.3	289.4	277.2
25°	250.2	261.6	268.5	249.9	237.7
26°	214.0	225.1	233.5	214.9	203.2
27°	182.3	194.0	202.6	185.3	174.2
28°	155.0	166.4	175.4	159.2	148.8
29°	134.7	141.3	150.3	136.8	127.2
30°	114.6	121.8	131.4	117.6	109.2
32.5°	78.7	82.6	90.1	81.7	75.1
35°	56.0	58.4	62.0	56.3	52.4
37.5°	39.8	41.0	43.1	39.8	37.7
40°	29.3	29.9	30.8	29.0	27.8
42.5°	21.8	22.1	22.1	21.6	21.0
45°	16.5	16.8	16.5	16.5	15.9
47.5°	12.0	12.9	12.6	12.6	11.7
50°	7.8	9.6	9.6	9.3	7.8
52.5°	4.8	6.6	7.5	6.6	5.1
55°	3.6	4.5	5.7	4.5	3.9
57.5°	3.6	3.6	4.2	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.0	3.3	3.3
72.5°	3.0	3.0	2.7	3.0	2.7
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.5	1.5	1.5	1.5	1.5
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°	3.6	3.6	3.6	3.6	3.6
65°	3.3	3.6	3.3	3.6	3.3



(END OF REPORT)