

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: P283503

Luminaire Tested: **LDA2B059030D010 EU2B05FL409030 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283503
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: LDA2B059030D010 EU2B05FL409030 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: 547.2 lumens
Efficiency: N/A
Efficacy: 78.2 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

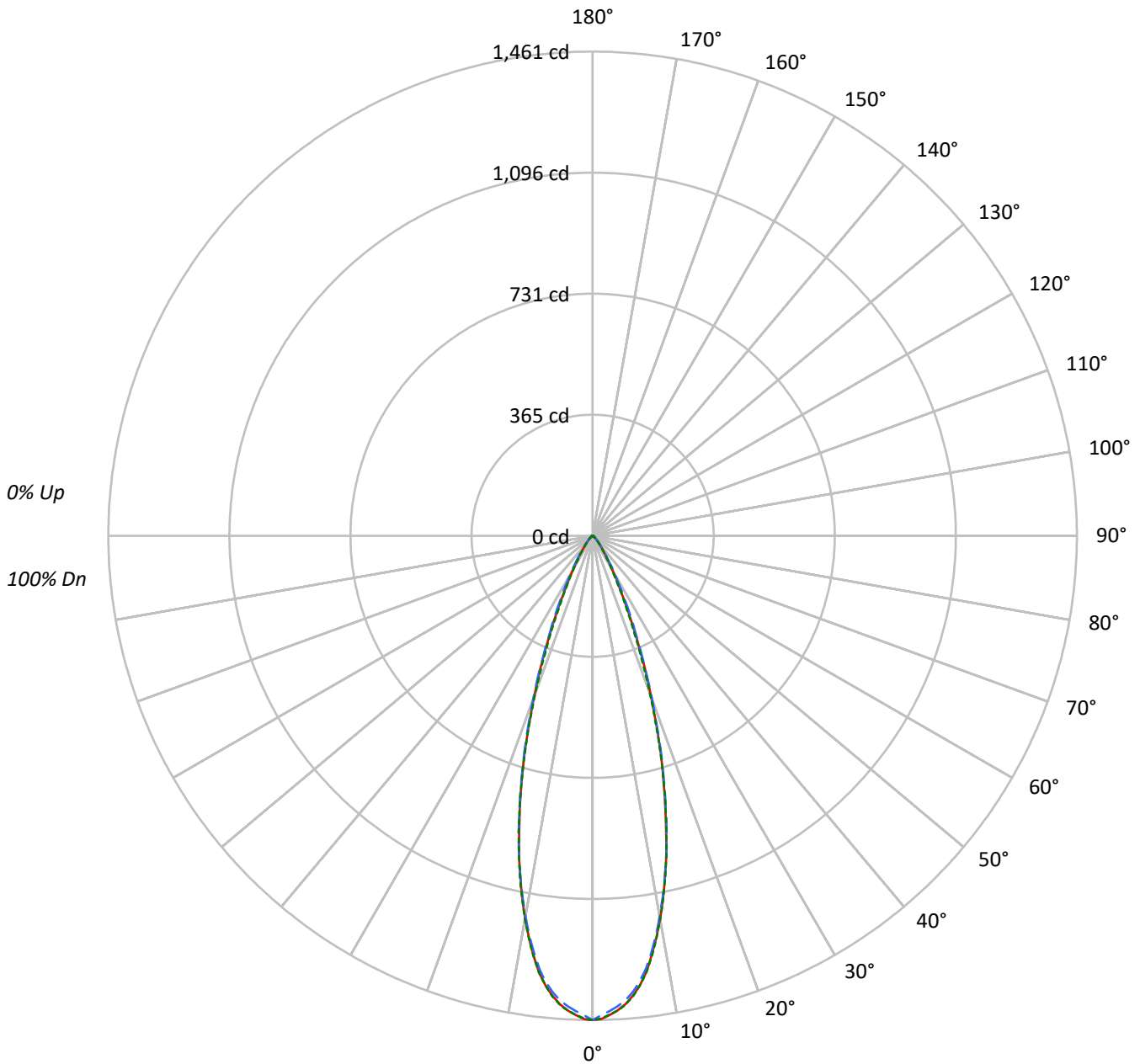
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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°	720950	720950	720950
5°	689977	684777	691017
10°	587791	584134	588443
15°	433231	436092	434662
20°	270440	275480	264507
25°	139738	149918	132716
30°	66995	76794	63862
35°	34571	38245	32343
40°	19386	20352	18419
45°	11791	11791	11373
50°	6140	7522	6140
55°	3183	4989	3441
60°	3651	3651	3651
65°	3969	3969	3969
70°	4904	4472	4904
75°	4766	4766	4766
80°	4262	4262	4262
85°	3396	3396	3396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	23.0
10°-20°	230.9	42.2
20°-30°	125.2	22.9
30°-40°	40.2	7.3
40°-50°	13.7	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°	481.7	88.0
0°-40°	521.9	95.4
0°-60°	540.4	98.8
0°-90°	547.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	547.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1393	1385	1383	1396	1395	126
15°	848	855	854	858	851	230
25°	257	268	275	256	244	123
35°	57	60	64	58	54	39
45°	17	17	17	17	16	13
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°	1461.3	1461.3	1461.3	1461.3	1461.3
1°	1458.9	1448.4	1446.9	1460.4	1457.3
2°	1447.2	1437.4	1435.8	1449.3	1446.6
3°	1434.3	1425.4	1422.3	1436.4	1434.6
4°	1417.1	1408.8	1406.0	1420.2	1418.6
5°	1393.2	1384.6	1382.7	1396.5	1395.3
6°	1363.7	1356.6	1353.2	1367.1	1364.6
7°	1326.8	1320.4	1316.7	1326.8	1328.1
8°	1279.0	1275.9	1271.6	1281.7	1281.7
9°	1228.0	1225.2	1220.6	1229.8	1229.8
10°	1173.3	1171.5	1166.0	1174.6	1174.6
11°	1113.5	1112.6	1108.6	1115.6	1115.6
12°	1050.5	1052.7	1049.0	1055.2	1053.0
13°	987.6	986.7	987.0	991.6	988.2
14°	916.4	921.9	922.8	925.6	920.4
15°	848.2	855.3	853.8	857.8	851.0
16°	778.5	786.5	786.2	787.1	780.7
17°	713.5	718.1	718.4	717.5	709.5
18°	644.1	650.5	650.5	649.0	639.5
19°	576.2	581.1	584.5	581.1	570.1
20°	515.1	518.5	524.7	516.1	503.8
21°	456.5	459.6	464.8	454.7	441.2
22°	400.3	404.3	409.2	397.6	383.4
23°	347.8	357.0	358.9	342.9	330.9
24°	299.6	310.1	313.1	296.9	284.3
25°	256.7	268.3	275.4	256.3	243.8
26°	219.5	230.9	239.5	220.4	208.5
27°	187.0	198.9	207.8	190.0	178.7
28°	159.0	170.7	179.9	163.3	152.6
29°	138.1	144.9	154.1	140.3	130.5
30°	117.6	124.9	134.8	120.7	112.1
32.5°	80.7	84.7	92.4	83.8	77.1
35°	57.4	59.9	63.5	57.7	53.7
37.5°	40.8	42.1	44.2	40.8	38.7
40°	30.1	30.7	31.6	29.8	28.6
42.5°	22.4	22.7	22.7	22.1	21.5
45°	16.9	17.2	16.9	16.9	16.3
47.5°	12.3	13.2	12.9	12.9	12.0
50°	8.0	9.8	9.8	9.5	8.0
52.5°	4.9	6.8	7.7	6.8	5.2
55°	3.7	4.6	5.8	4.6	4.0
57.5°	3.7	3.7	4.3	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°	1.8	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°	3.7	3.7	3.7	3.7	3.7
65°	3.4	3.7	3.4	3.7	3.4



(END OF REPORT)