

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: P283460

Luminaire Tested: **LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283460
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: LDA2B058027D010 EU2B05FL408027 2LBAPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ PinHole, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 687.5 lumens
Efficiency: N/A
Efficacy: 98.2 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

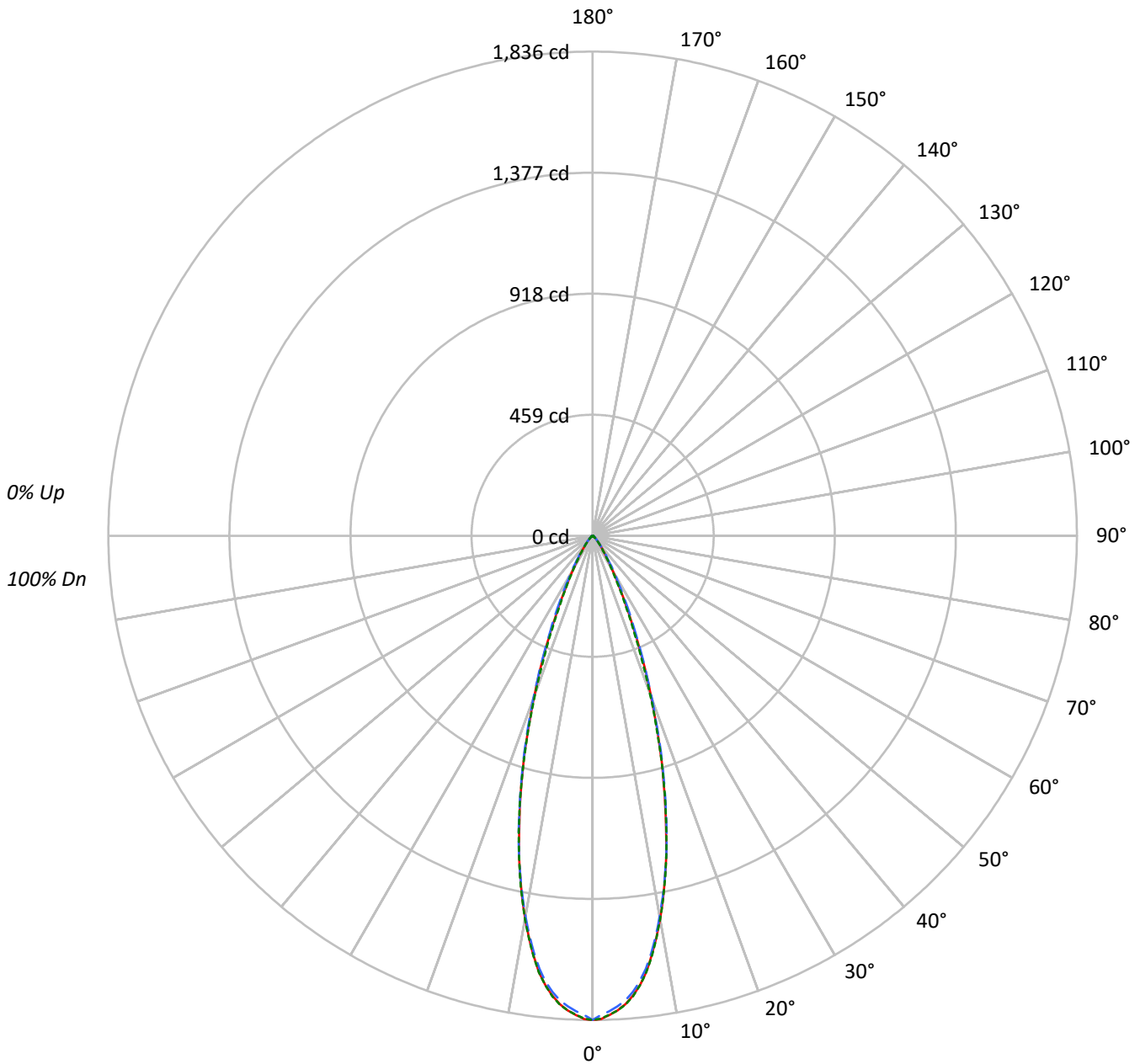
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	75	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°	905862	905862	905862
5°	866929	860441	868266
10°	738584	733925	739386
15°	544374	547898	546162
20°	339848	346096	332341
25°	175558	188350	166739
30°	84142	96448	80212
35°	43425	48062	40654
40°	24345	25568	23121
45°	14792	14792	14233
50°	7675	9441	7675
55°	3957	6279	4301
60°	4539	4539	4539
65°	4903	4903	4903
70°	6058	5626	6058
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	23.0
10°-20°	290.1	42.2
20°-30°	157.3	22.9
30°-40°	50.5	7.3
40°-50°	17.2	2.5
50°-60°	6.0	0.9
60°-70°	4.4	0.6
70°-80°	3.2	0.5
80°-90°	0.9	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°	605.3	88.0
0°-40°	655.8	95.4
0°-60°	679.0	98.8
0°-90°	687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1750	1740	1737	1755	1753	158
15°	1066	1075	1073	1078	1069	289
25°	322	337	346	322	306	155
35°	72	75	80	72	68	49
45°	21	22	21	21	20	17
55°	5	6	7	6	5	5
65°	4	5	4	5	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°	1836.1	1836.1	1836.1	1836.1	1836.1
1°	1833.0	1819.9	1818.0	1835.0	1831.1
2°	1818.4	1806.0	1804.1	1821.1	1817.6
3°	1802.2	1791.0	1787.1	1804.9	1802.6
4°	1780.6	1770.2	1766.7	1784.4	1782.5
5°	1750.5	1739.7	1737.4	1754.7	1753.2
6°	1713.5	1704.6	1700.4	1717.7	1714.6
7°	1667.2	1659.1	1654.4	1667.2	1668.7
8°	1607.0	1603.1	1597.7	1610.5	1610.5
9°	1543.0	1539.5	1533.7	1545.3	1545.3
10°	1474.3	1472.0	1465.0	1475.9	1475.9
11°	1399.1	1397.9	1392.9	1401.8	1401.8
12°	1320.0	1322.7	1318.1	1325.8	1323.1
13°	1240.9	1239.8	1240.2	1245.9	1241.7
14°	1151.4	1158.4	1159.5	1163.0	1156.5
15°	1065.8	1074.7	1072.7	1077.8	1069.3
16°	978.2	988.3	987.9	989.0	980.9
17°	896.5	902.3	902.6	901.5	891.5
18°	809.3	817.4	817.4	815.5	803.5
19°	724.0	730.2	734.5	730.2	716.3
20°	647.3	651.5	659.2	648.4	633.0
21°	573.6	577.5	584.0	571.3	554.3
22°	503.0	508.0	514.2	499.5	481.8
23°	437.0	448.6	450.9	430.9	415.8
24°	376.5	389.6	393.5	373.0	357.2
25°	322.5	337.1	346.0	322.1	306.3
26°	275.8	290.1	300.9	277.0	261.9
27°	234.9	250.0	261.1	238.8	224.5
28°	199.8	214.5	226.0	205.2	191.7
29°	173.6	182.1	193.6	176.3	163.9
30°	147.7	157.0	169.3	151.6	140.8
32.5°	101.5	106.5	116.1	105.3	96.8
35°	72.1	75.2	79.8	72.5	67.5
37.5°	51.3	52.8	55.5	51.3	48.6
40°	37.8	38.6	39.7	37.4	35.9
42.5°	28.2	28.5	28.5	27.8	27.0
45°	21.2	21.6	21.2	21.2	20.4
47.5°	15.4	16.6	16.2	16.2	15.0
50°	10.0	12.3	12.3	12.0	10.0
52.5°	6.2	8.5	9.6	8.5	6.6
55°	4.6	5.8	7.3	5.8	5.0
57.5°	4.6	4.6	5.4	4.6	4.6
60°	4.6	4.6	4.6	4.6	4.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	3.9	4.2	4.2
72.5°	3.9	3.9	3.5	3.9	3.5
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.2	1.2	1.2	1.5	1.2
85°	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	4.6	4.6	4.6	4.6	4.6
65°	4.2	4.6	4.2	4.6	4.2



(END OF REPORT)