

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: P283473

Luminaire Tested: **LDA2B058035D010 EU2B05FL408035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283473
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: LDA2B058035D010 EU2B05FL408035 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: 685.9 lumens
Efficiency: N/A
Efficacy: 98.0 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

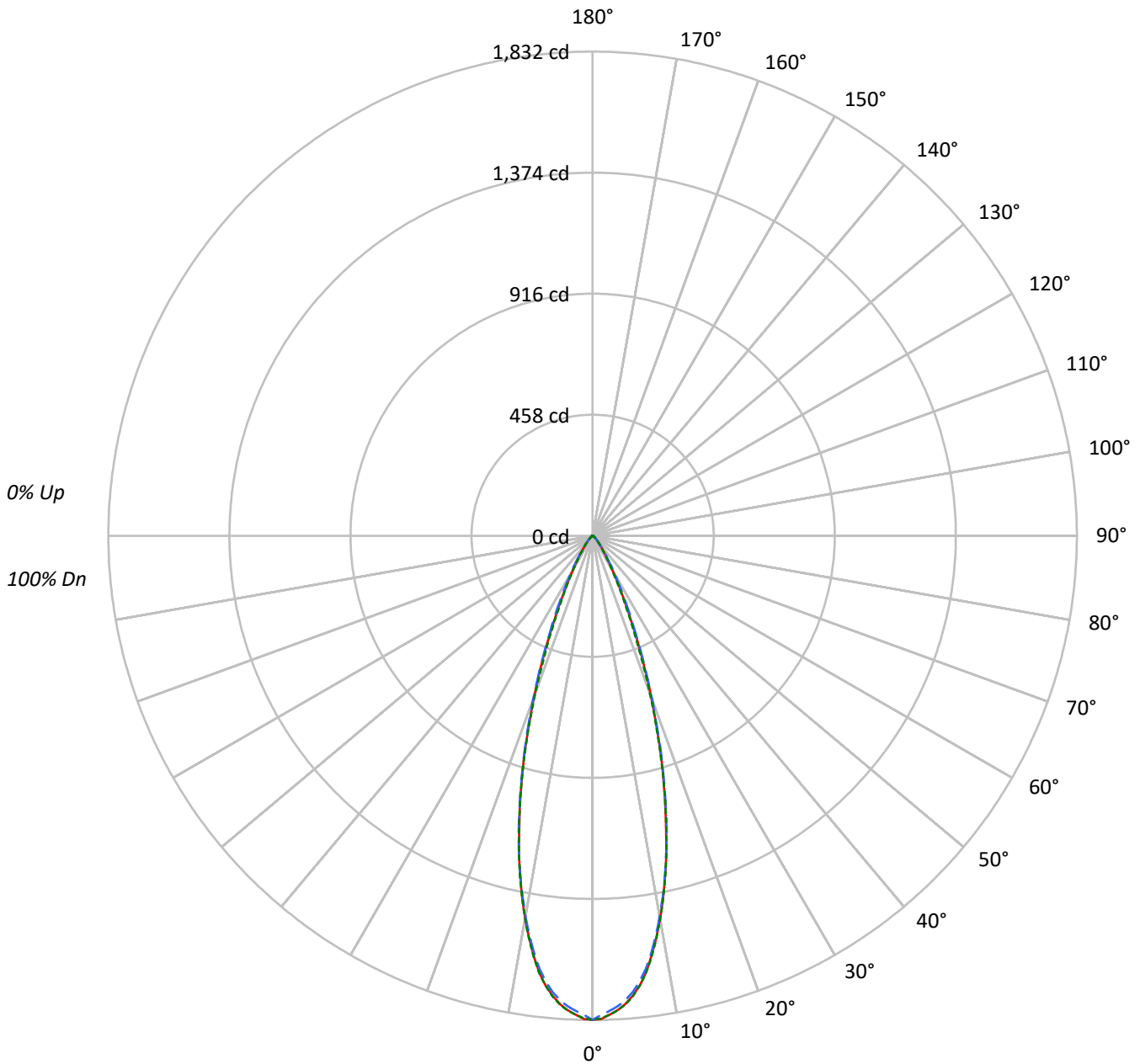
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	903740	903740	903740
5°	864849	858410	866186
10°	736831	732222	737582
15°	543097	546621	544834
20°	339008	345309	331553
25°	175122	187915	166358
30°	83972	96220	80041
35°	43364	48002	40534
40°	24280	25504	23057
45°	14792	14792	14233
50°	7675	9441	7675
55°	3957	6279	4301
60°	4539	4539	4539
65°	4903	4903	4903
70°	6058	5481	6058
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	23.0
10°-20°	289.4	42.2
20°-30°	156.9	22.9
30°-40°	50.4	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°	603.9	88.0
0°-40°	654.2	95.4
0°-60°	677.4	98.8
0°-90°	685.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1746	1736	1733	1751	1749	158
15°	1063	1072	1070	1075	1067	288
25°	322	336	345	321	306	154
35°	72	75	80	72	67	48
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°	1831.8	1831.8	1831.8	1831.8	1831.8
1°	1828.7	1815.6	1813.7	1830.6	1826.8
2°	1814.1	1801.8	1799.8	1816.8	1813.3
3°	1797.9	1786.7	1782.9	1800.6	1798.3
4°	1776.4	1766.0	1762.5	1780.2	1778.3
5°	1746.3	1735.6	1733.3	1750.6	1749.0
6°	1709.4	1700.5	1696.3	1713.6	1710.6
7°	1663.2	1655.1	1650.5	1663.2	1664.8
8°	1603.2	1599.3	1594.0	1606.7	1606.7
9°	1539.3	1535.8	1530.1	1541.6	1541.6
10°	1470.8	1468.5	1461.6	1472.3	1472.3
11°	1395.8	1394.6	1389.6	1398.5	1398.5
12°	1316.9	1319.6	1315.0	1322.6	1320.0
13°	1238.0	1236.8	1237.2	1243.0	1238.8
14°	1148.7	1155.6	1156.8	1160.3	1153.7
15°	1063.3	1072.1	1070.2	1075.2	1066.7
16°	975.9	985.9	985.5	986.7	978.6
17°	894.3	900.1	900.5	899.3	889.3
18°	807.4	815.4	815.4	813.5	801.6
19°	722.3	728.5	732.7	728.5	714.6
20°	645.7	650.0	657.7	646.9	631.5
21°	572.2	576.1	582.6	569.9	553.0
22°	501.8	506.8	513.0	498.4	480.6
23°	436.0	447.6	449.9	429.9	414.8
24°	375.6	388.7	392.5	372.1	356.3
25°	321.7	336.3	345.2	321.3	305.6
26°	275.2	289.4	300.2	276.3	261.3
27°	234.4	249.4	260.5	238.2	224.0
28°	199.3	214.0	225.5	204.7	191.3
29°	173.2	181.6	193.2	175.9	163.6
30°	147.4	156.6	168.9	151.2	140.5
32.5°	101.2	106.2	115.8	105.1	96.6
35°	72.0	75.0	79.7	72.3	67.3
37.5°	51.2	52.7	55.4	51.2	48.5
40°	37.7	38.5	39.6	37.3	35.8
42.5°	28.1	28.5	28.5	27.7	26.9
45°	21.2	21.6	21.2	21.2	20.4
47.5°	15.4	16.5	16.2	16.2	15.0
50°	10.0	12.3	12.3	11.9	10.0
52.5°	6.2	8.5	9.6	8.5	6.5
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	3.8	4.2	4.2
72.5°	3.8	3.8	3.5	3.8	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)