

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: P283479

Luminaire Tested: **LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283479
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: LDA2B058040D010 EU2B05FL408040 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: 713.9 lumens
Efficiency: N/A
Efficacy: 102.0 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

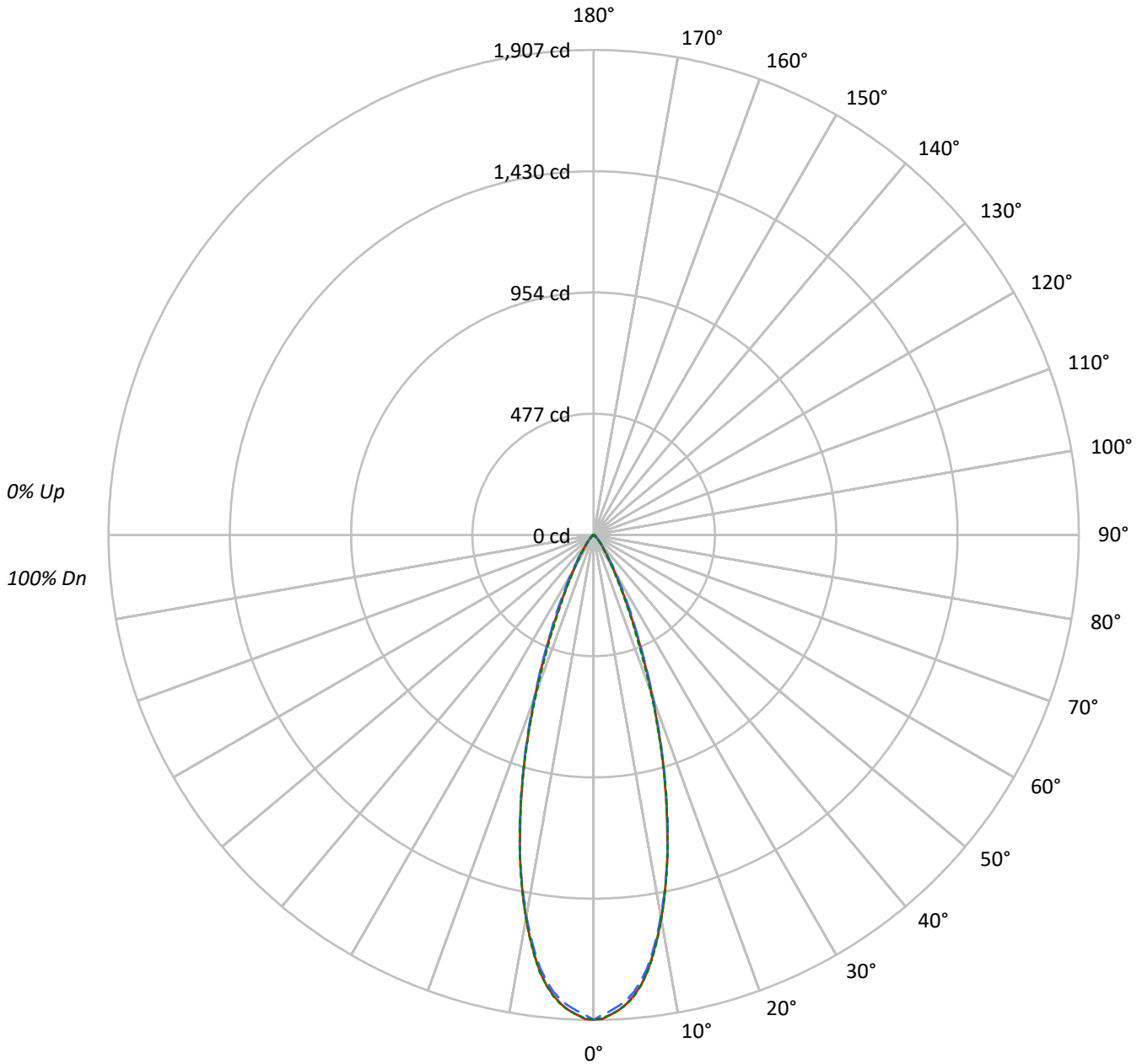
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	940693	940693	940693
5°	900259	893523	901646
10°	766989	762180	767791
15°	565315	568993	567154
20°	352922	359432	345099
25°	182308	195590	173108
30°	87390	100151	83288
35°	45111	49929	42220
40°	25311	26599	24023
45°	15350	15350	14792
50°	7982	9824	7982
55°	4129	6537	4473
60°	4736	4736	4736
65°	5137	5137	5137
70°	6347	5770	6347
75°	6100	6100	6100
80°	5682	5682	5682
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	23.0
10°-20°	301.3	42.2
20°-30°	163.3	22.9
30°-40°	52.4	7.3
40°-50°	17.9	2.5
50°-60°	6.3	0.9
60°-70°	4.5	0.6
70°-80°	3.3	0.5
80°-90°	1.0	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°	628.6	88.0
0°-40°	681.0	95.4
0°-60°	705.1	98.8
0°-90°	713.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	713.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1907	1907	1907	1907	1907	
5°	1818	1807	1804	1822	1821	164
15°	1107	1116	1114	1119	1110	300
25°	335	350	359	334	318	160
35°	75	78	83	75	70	50
45°	22	22	22	22	21	18
55°	5	6	8	6	5	5
65°	4	5	4	5	4	5
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°	1906.7	1906.7	1906.7	1906.7	1906.7
1°	1903.5	1889.9	1887.9	1905.5	1901.5
2°	1888.3	1875.5	1873.4	1891.1	1887.5
3°	1871.4	1859.8	1855.8	1874.2	1871.8
4°	1849.0	1838.2	1834.6	1853.0	1851.0
5°	1817.8	1806.6	1804.2	1822.2	1820.6
6°	1779.3	1770.1	1765.7	1783.7	1780.5
7°	1731.2	1722.8	1718.0	1731.2	1732.8
8°	1668.8	1664.8	1659.1	1672.4	1672.4
9°	1602.3	1598.7	1592.7	1604.7	1604.7
10°	1531.0	1528.6	1521.4	1532.6	1532.6
11°	1452.9	1451.7	1446.4	1455.7	1455.7
12°	1370.7	1373.5	1368.7	1376.7	1373.9
13°	1288.6	1287.4	1287.8	1293.8	1289.4
14°	1195.7	1202.9	1204.1	1207.7	1200.9
15°	1106.8	1116.0	1114.0	1119.2	1110.4
16°	1015.8	1026.3	1025.9	1027.1	1018.6
17°	930.9	936.9	937.3	936.1	925.7
18°	840.4	848.8	848.8	846.8	834.4
19°	751.9	758.3	762.7	758.3	743.9
20°	672.2	676.6	684.6	673.4	657.3
21°	595.6	599.6	606.5	593.2	575.6
22°	522.3	527.5	534.0	518.7	500.3
23°	453.8	465.9	468.3	447.4	431.8
24°	391.0	404.6	408.6	387.3	370.9
25°	334.9	350.1	359.3	334.5	318.0
26°	286.4	301.2	312.4	287.6	272.0
27°	243.9	259.6	271.2	248.0	233.1
28°	207.5	222.7	234.7	213.1	199.1
29°	180.3	189.1	201.1	183.1	170.2
30°	153.4	163.0	175.8	157.4	146.2
32.5°	105.3	110.6	120.6	109.4	100.5
35°	74.9	78.1	82.9	75.3	70.1
37.5°	53.3	54.9	57.7	53.3	50.5
40°	39.3	40.1	41.3	38.9	37.3
42.5°	29.2	29.6	29.6	28.8	28.0
45°	22.0	22.4	22.0	22.0	21.2
47.5°	16.0	17.2	16.8	16.8	15.6
50°	10.4	12.8	12.8	12.4	10.4
52.5°	6.4	8.8	10.0	8.8	6.8
55°	4.8	6.0	7.6	6.0	5.2
57.5°	4.8	4.8	5.6	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.4	4.4	4.4	4.4	4.4
70°	4.4	4.4	4.0	4.4	4.4
72.5°	4.0	4.0	3.6	4.0	3.6
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.2	1.2	1.2	1.6	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°	4.8	4.8	4.8	4.8	4.8
65°	4.4	4.8	4.4	4.8	4.4



(END OF REPORT)