

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: P283487

Luminaire Tested: **LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283487
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: LDA2B058050D010 EU2B05FL408050 2LBALPINSQ1MW
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MW

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.7 lumens
Efficiency: N/A
Efficacy: 98.8 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

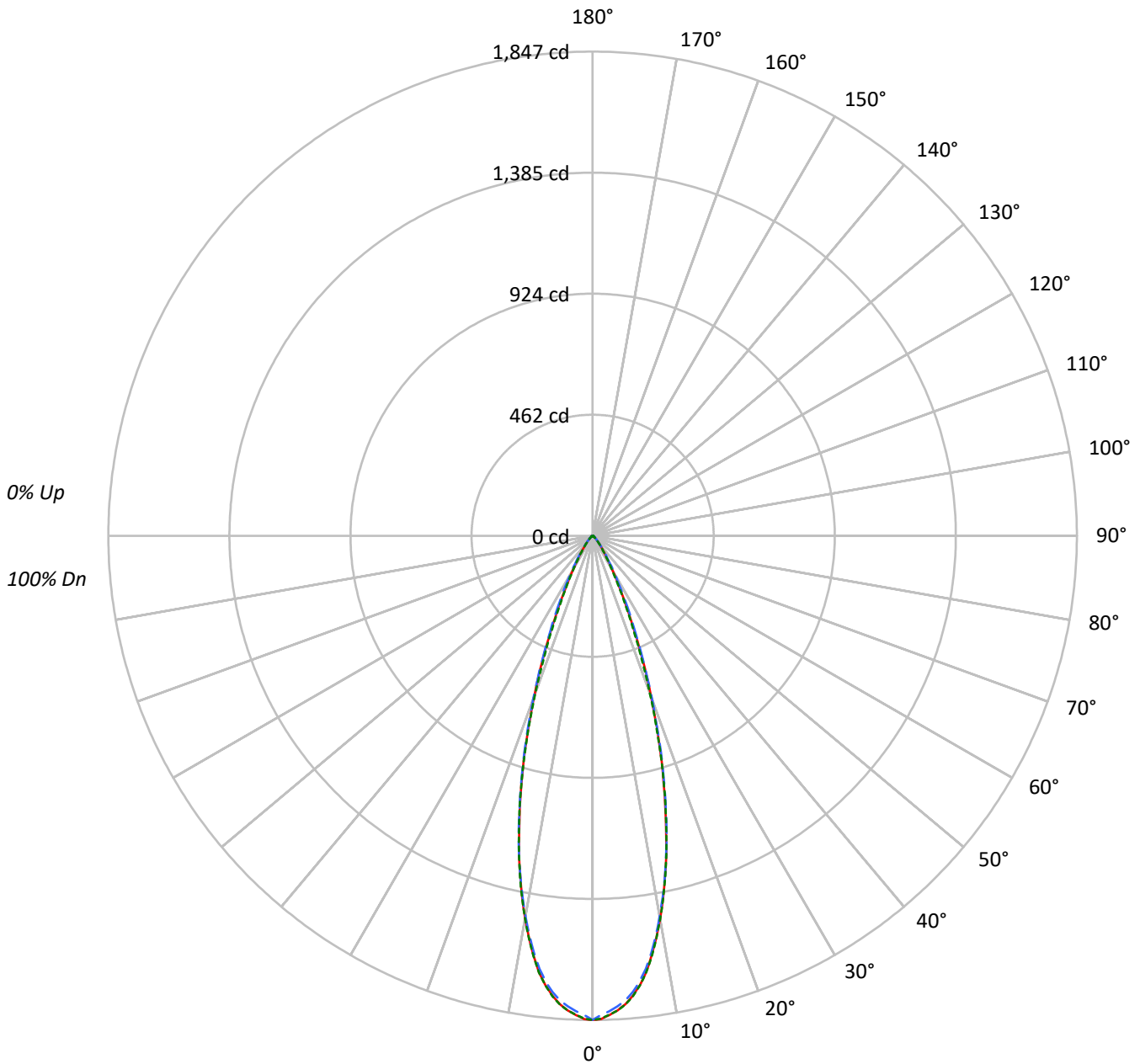
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	911239	911239	911239
5°	872079	865542	873416
10°	742993	738334	743744
15°	547592	551167	549380
20°	341844	348196	334336
25°	176592	189493	167719
30°	84655	97017	80667
35°	43726	48363	40895
40°	24473	25762	23250
45°	14861	14861	14373
50°	7752	9517	7752
55°	4043	6365	4301
60°	4638	4638	4638
65°	5020	5020	5020
70°	6203	5626	6203
75°	5909	5909	5909
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	23.0
10°-20°	291.8	42.2
20°-30°	158.2	22.9
30°-40°	50.8	7.3
40°-50°	17.3	2.5
50°-60°	6.1	0.9
60°-70°	4.5	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°	608.9	88.0
0°-40°	659.7	95.4
0°-60°	683.1	98.8
0°-90°	691.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1761	1750	1748	1765	1764	159
15°	1072	1081	1079	1084	1076	291
25°	324	339	348	324	308	155
35°	73	76	80	73	68	49
45°	21	22	21	21	21	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°	1847.0	1847.0	1847.0	1847.0	1847.0
1°	1843.9	1830.7	1828.8	1845.9	1842.0
2°	1829.2	1816.8	1814.8	1831.9	1828.4
3°	1812.9	1801.6	1797.8	1815.6	1813.3
4°	1791.2	1780.7	1777.2	1795.0	1793.1
5°	1760.9	1750.0	1747.7	1765.2	1763.6
6°	1723.7	1714.7	1710.5	1727.9	1724.8
7°	1677.1	1668.9	1664.3	1677.1	1678.6
8°	1616.6	1612.7	1607.2	1620.0	1620.0
9°	1552.1	1548.6	1542.8	1554.5	1554.5
10°	1483.1	1480.7	1473.8	1484.6	1484.6
11°	1407.4	1406.2	1401.2	1410.1	1410.1
12°	1327.9	1330.6	1325.9	1333.7	1331.0
13°	1248.3	1247.1	1247.5	1253.4	1249.1
14°	1158.3	1165.3	1166.4	1169.9	1163.3
15°	1072.1	1081.1	1079.1	1084.2	1075.6
16°	984.1	994.1	993.8	994.9	986.8
17°	901.8	907.6	908.0	906.8	896.7
18°	814.1	822.2	822.2	820.3	808.3
19°	728.3	734.5	738.8	734.5	720.6
20°	651.1	655.4	663.2	652.3	636.8
21°	577.0	580.9	587.5	574.7	557.6
22°	506.0	511.0	517.3	502.5	484.7
23°	439.6	451.3	453.6	433.4	418.3
24°	378.7	391.9	395.8	375.2	359.3
25°	324.4	339.1	348.1	324.0	308.1
26°	277.4	291.8	302.7	278.6	263.5
27°	236.3	251.4	262.7	240.2	225.8
28°	201.0	215.7	227.4	206.4	192.9
29°	174.6	183.2	194.8	177.3	164.9
30°	148.6	157.9	170.3	152.5	141.6
32.5°	102.1	107.1	116.8	105.9	97.4
35°	72.6	75.7	80.3	73.0	67.9
37.5°	51.6	53.2	55.9	51.6	48.9
40°	38.0	38.8	40.0	37.6	36.1
42.5°	28.3	28.7	28.7	27.9	27.2
45°	21.3	21.7	21.3	21.3	20.6
47.5°	15.5	16.7	16.3	16.3	15.1
50°	10.1	12.4	12.4	12.0	10.1
52.5°	6.2	8.5	9.7	8.5	6.6
55°	4.7	5.8	7.4	5.8	5.0
57.5°	4.7	4.7	5.4	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.3	4.3	4.3	4.3	4.3
70°	4.3	4.3	3.9	4.3	4.3
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	1.6	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°	4.7	4.7	4.7	4.7	4.7
65°	4.3	4.7	4.3	4.7	4.3



(END OF REPORT)