

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: P283482

Luminaire Tested: **LDA2B058040D010 EU2B05FL408040 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283482
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.5 lumens
Efficiency: N/A
Efficacy: 95.8 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

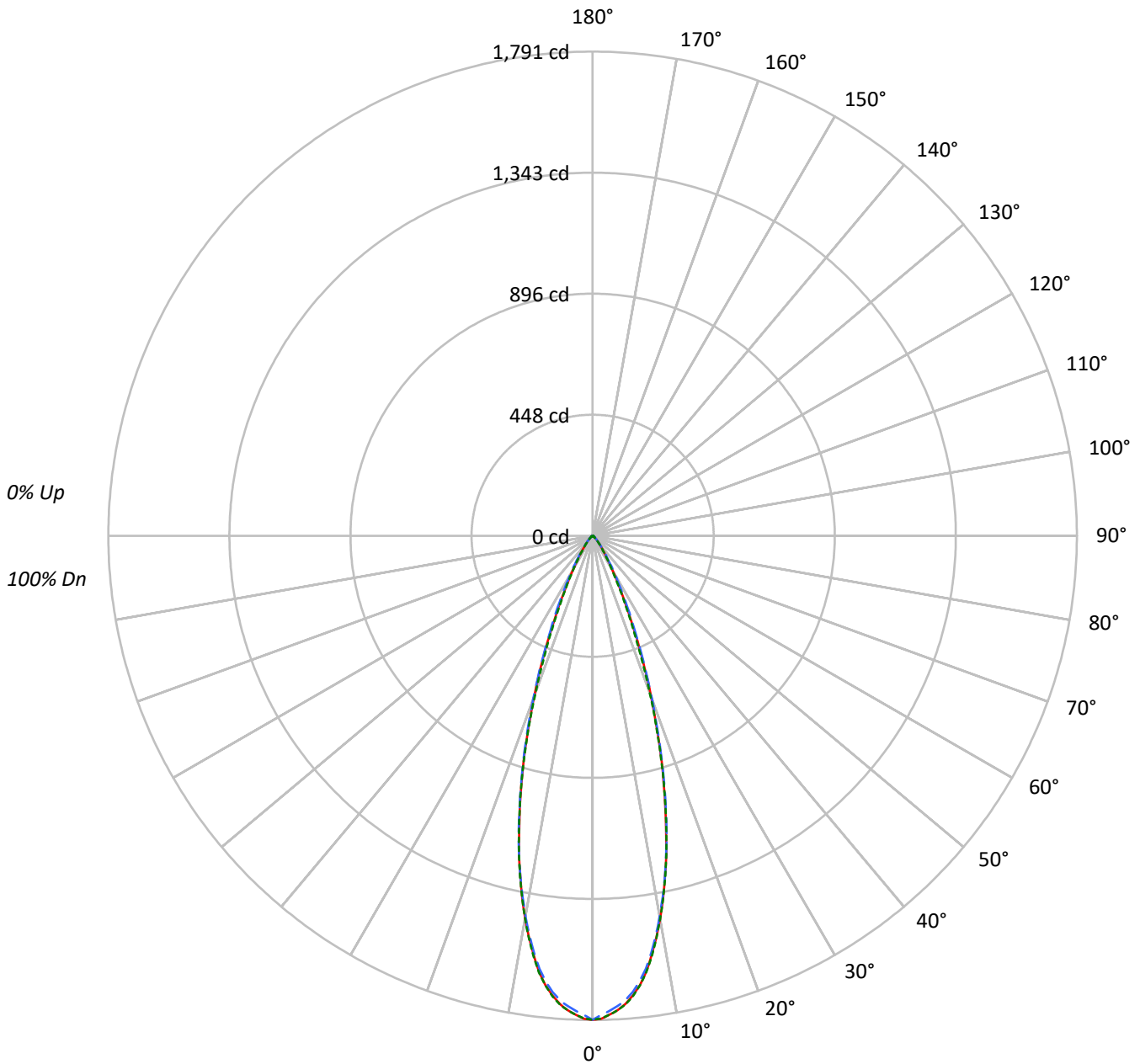
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	883414	883414	883414
5°	845435	839096	846772
10°	720299	715740	721050
15°	530890	534363	532626
20°	331396	337538	324098
25°	171203	183669	162602
30°	82092	94055	78218
35°	42341	46918	39630
40°	23765	24924	22541
45°	14443	14443	13885
50°	7522	9210	7522
55°	3871	6107	4215
60°	4440	4440	4440
65°	4786	4786	4786
70°	5914	5481	5914
75°	5719	5719	5719
80°	5398	5398	5398
85°	4529	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.0	23.0
10°-20°	282.9	42.2
20°-30°	153.4	22.9
30°-40°	49.2	7.3
40°-50°	16.8	2.5
50°-60°	5.9	0.9
60°-70°	4.3	0.6
70°-80°	3.1	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°	590.3	88.0
0°-40°	639.5	95.4
0°-60°	662.2	98.8
0°-90°	670.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1707	1697	1694	1711	1710	154
15°	1039	1048	1046	1051	1043	282
25°	314	329	337	314	299	151
35°	70	73	78	71	66	47
45°	21	21	21	21	20	16
55°	4	6	7	6	5	5
65°	4	4	4	4	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°	1790.6	1790.6	1790.6	1790.6	1790.6
1°	1787.6	1774.8	1773.0	1789.5	1785.7
2°	1773.3	1761.3	1759.4	1776.0	1772.6
3°	1757.5	1746.6	1742.9	1760.2	1757.9
4°	1736.5	1726.3	1722.9	1740.2	1738.3
5°	1707.1	1696.6	1694.3	1711.3	1709.8
6°	1671.0	1662.4	1658.2	1675.1	1672.1
7°	1625.9	1618.0	1613.5	1625.9	1627.4
8°	1567.2	1563.4	1558.2	1570.6	1570.6
9°	1504.7	1501.4	1495.7	1507.0	1507.0
10°	1437.8	1435.5	1428.7	1439.3	1439.3
11°	1364.4	1363.3	1358.4	1367.1	1367.1
12°	1287.3	1289.9	1285.4	1292.9	1290.3
13°	1210.2	1209.1	1209.4	1215.1	1210.9
14°	1122.9	1129.7	1130.8	1134.2	1127.8
15°	1039.4	1048.0	1046.2	1051.1	1042.8
16°	954.0	963.8	963.4	964.5	956.6
17°	874.3	879.9	880.3	879.1	869.4
18°	789.2	797.1	797.1	795.3	783.6
19°	706.1	712.1	716.3	712.1	698.6
20°	631.2	635.4	642.9	632.4	617.3
21°	559.4	563.1	569.5	557.1	540.6
22°	490.5	495.4	501.5	487.2	469.9
23°	426.2	437.5	439.8	420.2	405.5
24°	367.2	379.9	383.7	363.8	348.3
25°	314.5	328.8	337.4	314.1	298.7
26°	269.0	282.9	293.4	270.1	255.4
27°	229.1	243.8	254.7	232.9	218.9
28°	194.9	209.2	220.4	200.1	187.0
29°	169.3	177.6	188.8	171.9	159.9
30°	144.1	153.1	165.1	147.8	137.3
32.5°	98.9	103.8	113.2	102.7	94.4
35°	70.3	73.4	77.9	70.7	65.8
37.5°	50.0	51.5	54.2	50.0	47.4
40°	36.9	37.6	38.7	36.5	35.0
42.5°	27.5	27.8	27.8	27.1	26.3
45°	20.7	21.1	20.7	20.7	19.9
47.5°	15.0	16.2	15.8	15.8	14.7
50°	9.8	12.0	12.0	11.7	9.8
52.5°	6.0	8.3	9.4	8.3	6.4
55°	4.5	5.6	7.1	5.6	4.9
57.5°	4.5	4.5	5.3	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	3.8	4.1	4.1
72.5°	3.8	3.8	3.4	3.8	3.4
75°	3.0	3.0	3.0	3.0	3.0
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°	1.1	1.1	1.1	1.5	1.1
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°	4.5	4.5	4.5	4.5	4.5
65°	4.1	4.5	4.1	4.5	4.1



(END OF REPORT)