

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: P283466

Luminaire Tested: **LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283466
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: LDA2B058030D010 EU2B05FL408030 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: 700.8 lumens
Efficiency: N/A
Efficacy: 100.1 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

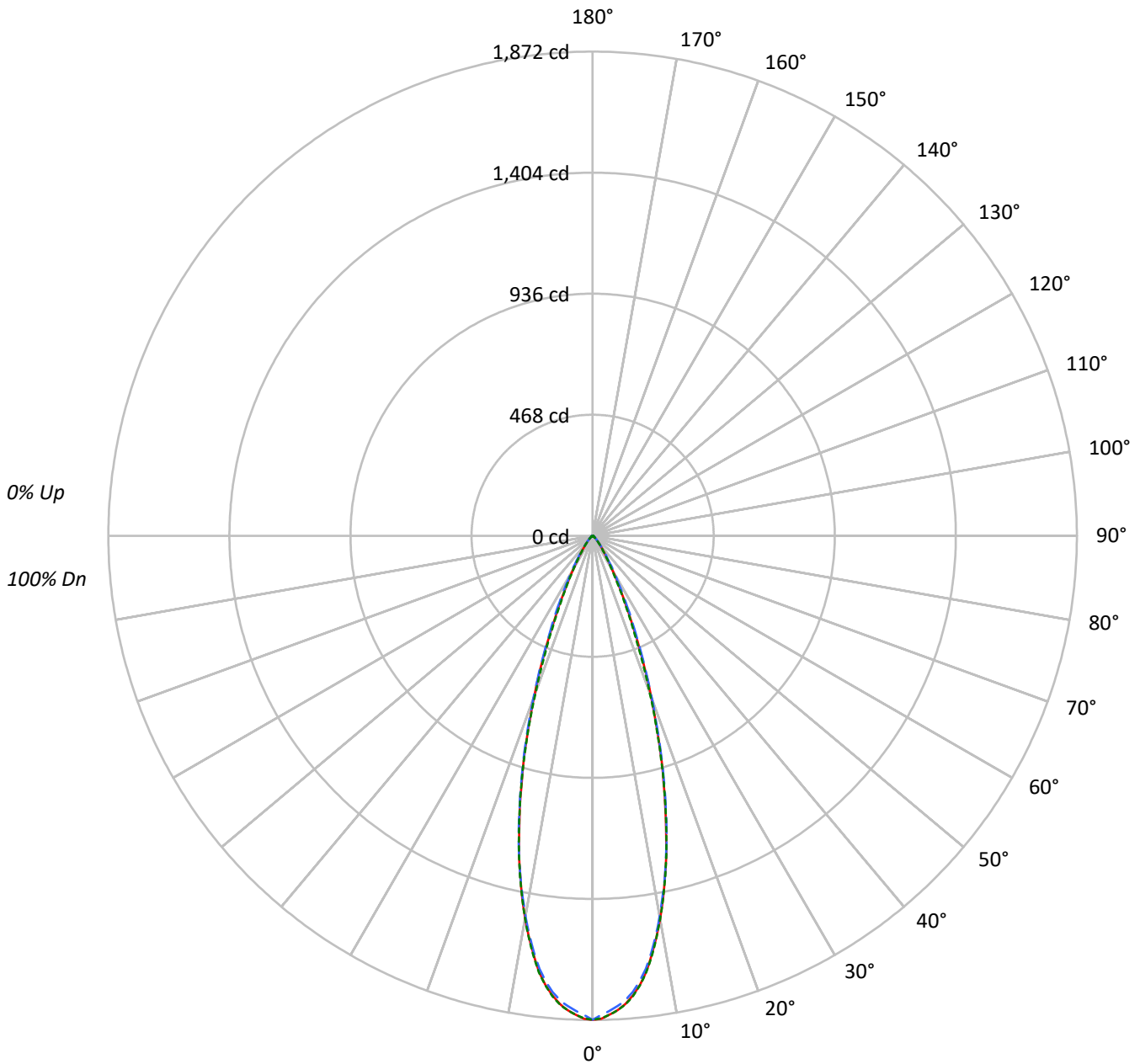
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283466

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283466

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MW

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°	923327	923327	923327
5°	883619	877032	885005
10°	752812	748103	753613
15°	554896	558471	556684
20°	346411	352764	338746
25°	178933	191997	169951
30°	85795	98328	81750
35°	44268	49026	41437
40°	24795	26084	23572
45°	15071	15071	14513
50°	7829	9671	7829
55°	4043	6451	4387
60°	4638	4638	4638
65°	5020	5020	5020
70°	6203	5626	6203
75°	5909	5909	5909
80°	5682	5682	5682
85°	4529	4529	4529



TEST NUMBER: P283466

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	23.0
10°-20°	295.7	42.2
20°-30°	160.3	22.9
30°-40°	51.5	7.3
40°-50°	17.5	2.5
50°-60°	6.1	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°	617.0	88.0
0°-40°	668.4	95.4
0°-60°	692.1	98.8
0°-90°	700.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1784	1773	1771	1789	1787	161
15°	1086	1095	1093	1098	1090	295
25°	329	344	353	328	312	158
35°	74	77	81	74	69	50
45°	22	22	22	22	21	17
55°	5	6	8	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	



TEST NUMBER: P283466

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.5	1871.5	1871.5	1871.5	1871.5
1°	1868.4	1855.0	1853.1	1870.4	1866.4
2°	1853.4	1840.9	1838.9	1856.2	1852.7
3°	1836.9	1825.5	1821.6	1839.7	1837.3
4°	1814.9	1804.3	1800.8	1818.8	1816.9
5°	1784.2	1773.2	1770.9	1788.6	1787.0
6°	1746.5	1737.5	1733.1	1750.8	1747.7
7°	1699.3	1691.1	1686.3	1699.3	1700.9
8°	1638.0	1634.1	1628.6	1641.5	1641.5
9°	1572.7	1569.2	1563.3	1575.1	1575.1
10°	1502.7	1500.4	1493.3	1504.3	1504.3
11°	1426.1	1424.9	1419.8	1428.8	1428.8
12°	1345.5	1348.2	1343.5	1351.4	1348.6
13°	1264.9	1263.7	1264.1	1270.0	1265.6
14°	1173.6	1180.7	1181.9	1185.4	1178.8
15°	1086.4	1095.4	1093.4	1098.5	1089.9
16°	997.1	1007.3	1006.9	1008.1	999.9
17°	913.7	919.6	920.0	918.9	908.6
18°	824.9	833.1	833.1	831.2	819.0
19°	738.0	744.3	748.6	744.3	730.1
20°	659.8	664.1	671.9	660.9	645.2
21°	584.7	588.6	595.3	582.3	565.0
22°	512.7	517.8	524.1	509.2	491.1
23°	445.5	457.3	459.6	439.2	423.8
24°	383.7	397.1	401.0	380.2	364.1
25°	328.7	343.6	352.7	328.3	312.2
26°	281.1	295.7	306.7	282.3	267.0
27°	239.4	254.8	266.2	243.4	228.8
28°	203.7	218.6	230.4	209.2	195.4
29°	176.9	185.6	197.4	179.7	167.1
30°	150.6	160.0	172.6	154.5	143.5
32.5°	103.4	108.5	118.3	107.3	98.7
35°	73.5	76.7	81.4	73.9	68.8
37.5°	52.3	53.9	56.6	52.3	49.5
40°	38.5	39.3	40.5	38.1	36.6
42.5°	28.7	29.1	29.1	28.3	27.5
45°	21.6	22.0	21.6	21.6	20.8
47.5°	15.7	16.9	16.5	16.5	15.3
50°	10.2	12.6	12.6	12.2	10.2
52.5°	6.3	8.6	9.8	8.6	6.7
55°	4.7	5.9	7.5	5.9	5.1
57.5°	4.7	4.7	5.5	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7



TEST NUMBER: P283466

CATALOG NUMBER: LDA2B058030D010 EU2B05FL408030 2LBAPINSQ1MW

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°	2.4	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



Report Generated By E9808895 / USPTCWHP6082093





— 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)