

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: P283478

Luminaire Tested: **LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P283478
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 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: 737.6 lumens
Efficiency: N/A
Efficacy: 105.4 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

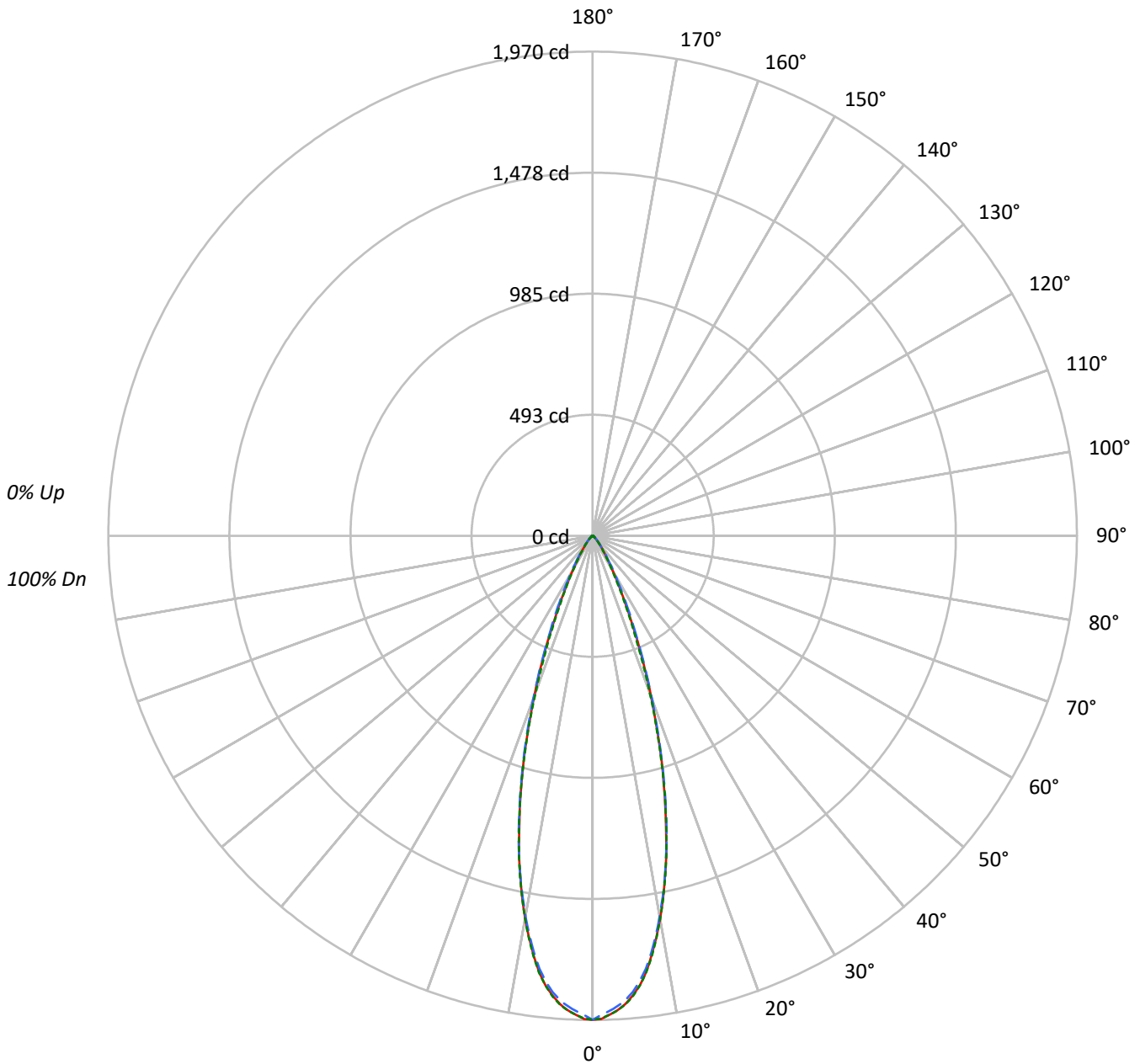
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P283478

CATALOG NUMBER: LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MW

Luminous Intensity Polar Plot





TEST NUMBER: P283478

CATALOG NUMBER: LDA2B058040D010 EU2B05FL408040 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°	971775	971775	971775
5°	929974	923040	931410
10°	792338	787329	793140
15°	583958	587789	585899
20°	364577	371297	356492
25°	188296	202068	178878
30°	90295	103512	86022
35°	46617	51616	43605
40°	26148	27436	24795
45°	15908	15908	15280
50°	8289	10131	8289
55°	4301	6795	4645
60°	4934	4934	4934
65°	5370	5370	5370
70°	6635	5914	6635
75°	6290	6290	6290
80°	5966	5966	5966
85°	4529	4529	4529



TEST NUMBER: P283478

CATALOG NUMBER: LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	23.0
10°-20°	311.2	42.2
20°-30°	168.7	22.9
30°-40°	54.2	7.3
40°-50°	18.5	2.5
50°-60°	6.5	0.9
60°-70°	4.7	0.6
70°-80°	3.4	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°	649.3	88.0
0°-40°	703.5	95.4
0°-60°	728.4	98.8
0°-90°	737.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1878	1866	1864	1882	1881	170
15°	1143	1153	1151	1156	1147	310
25°	346	362	371	346	329	166
35°	77	81	86	78	72	52
45°	23	23	23	23	22	18
55°	5	6	8	6	5	5
65°	5	5	5	5	5	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P283478

CATALOG NUMBER: LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1969.7	1969.7	1969.7	1969.7	1969.7
1°	1966.4	1952.3	1950.3	1968.5	1964.3
2°	1950.7	1937.4	1935.4	1953.6	1949.8
3°	1933.3	1921.3	1917.1	1936.2	1933.7
4°	1910.1	1898.9	1895.2	1914.2	1912.2
5°	1877.8	1866.2	1863.8	1882.4	1880.7
6°	1838.1	1828.6	1824.0	1842.7	1839.4
7°	1788.5	1779.8	1774.8	1788.5	1790.1
8°	1723.9	1719.8	1714.0	1727.6	1727.6
9°	1655.2	1651.5	1645.3	1657.7	1657.7
10°	1581.6	1579.1	1571.6	1583.2	1583.2
11°	1500.9	1499.6	1494.2	1503.8	1503.8
12°	1416.0	1418.9	1414.0	1422.2	1419.3
13°	1331.2	1330.0	1330.4	1336.6	1332.0
14°	1235.2	1242.6	1243.9	1247.6	1240.6
15°	1143.3	1152.9	1150.8	1156.2	1147.1
16°	1049.4	1060.2	1059.7	1061.0	1052.3
17°	961.7	967.9	968.3	967.1	956.3
18°	868.2	876.8	876.8	874.8	862.0
19°	776.7	783.3	787.9	783.3	768.4
20°	694.4	698.9	707.2	695.6	679.0
21°	615.3	619.5	626.5	612.8	594.6
22°	539.6	545.0	551.6	535.9	516.8
23°	468.8	481.3	483.7	462.2	446.1
24°	403.9	417.9	422.1	400.1	383.2
25°	345.9	361.7	371.2	345.5	328.6
26°	295.9	311.2	322.8	297.1	281.0
27°	252.0	268.1	280.1	256.1	240.8
28°	214.3	230.1	242.5	220.1	205.7
29°	186.2	195.3	207.7	189.1	175.9
30°	158.5	168.4	181.7	162.6	151.0
32.5°	108.8	114.2	124.6	113.0	103.9
35°	77.4	80.7	85.7	77.8	72.4
37.5°	55.0	56.7	59.6	55.0	52.1
40°	40.6	41.4	42.6	40.1	38.5
42.5°	30.2	30.6	30.6	29.8	29.0
45°	22.8	23.2	22.8	22.8	21.9
47.5°	16.6	17.8	17.4	17.4	16.1
50°	10.8	13.2	13.2	12.8	10.8
52.5°	6.6	9.1	10.3	9.1	7.0
55°	5.0	6.2	7.9	6.2	5.4
57.5°	5.0	5.0	5.8	5.0	5.0
60°	5.0	5.0	5.0	5.0	5.0



TEST NUMBER: P283478

CATALOG NUMBER: LDA2B058040D010 EU2B05FL408040 2LBAPINSQ1MW

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.1	4.6	4.6
72.5°	4.1	4.1	3.7	4.1	3.7
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.5	2.5	2.5	2.5	2.5
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.2	1.2	1.2	1.7	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°	5.0	5.0	5.0	5.0	5.0
65°	4.6	5.0	4.6	5.0	4.6



(END OF REPORT)