

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: P282165

Luminaire Tested: **LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-26)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ PinHole, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 605.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.3 / 0.32
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

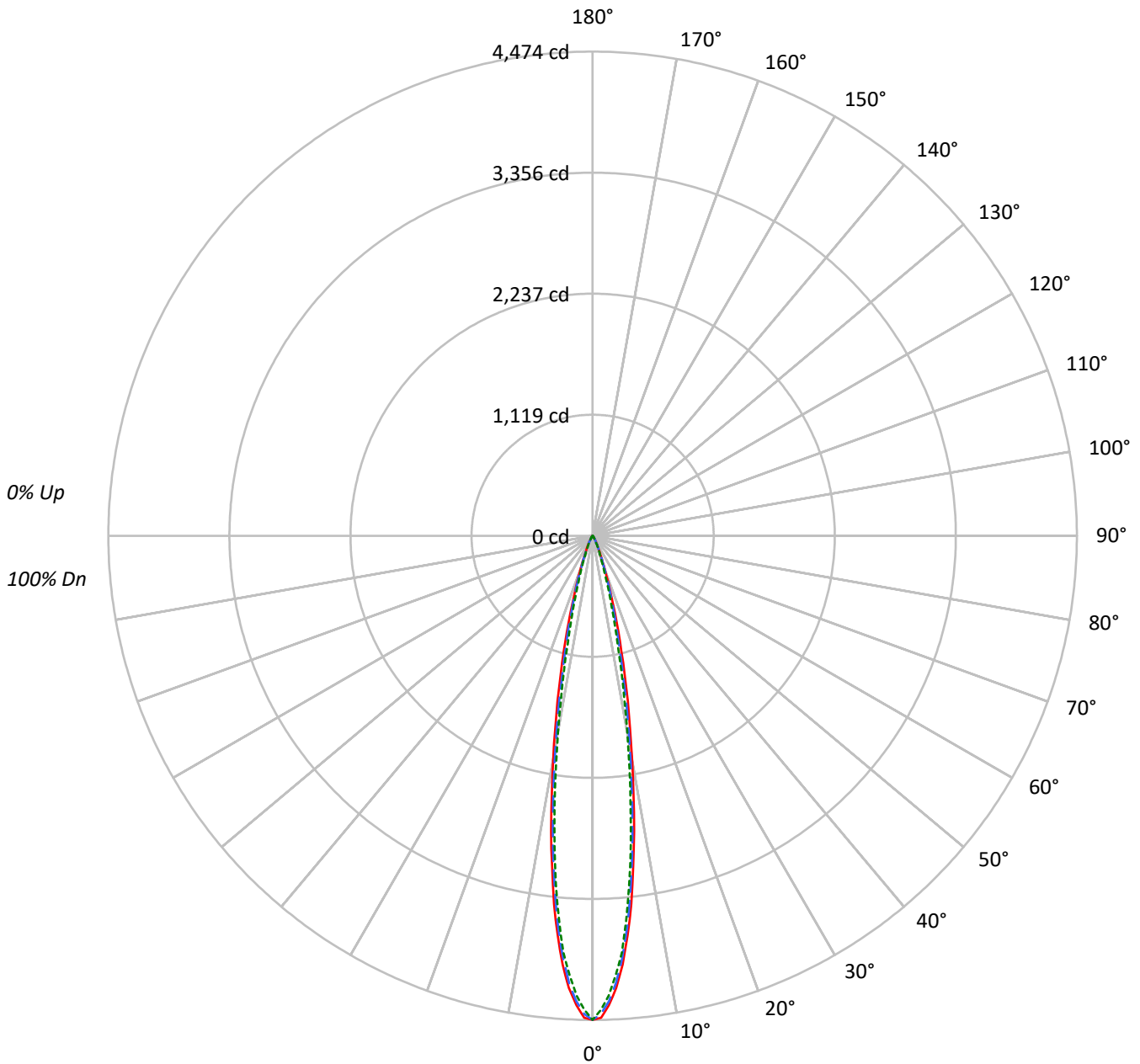
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282165

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282165

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB

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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97						97													
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95						95													
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92						92													
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90						90													
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88						88													
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86						86													
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84						84													
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83						83													
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81						81													
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79						79													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2207103	2207103	2207103
5°	1836522	1802845	1766445
10°	1051942	987117	921289
15°	467861	415559	348240
20°	169740	159607	126426
25°	65160	60860	52422
30°	28085	26149	23186
35°	13310	13310	11022
40°	6698	6891	5539
45°	3837	3628	3349
50°	2686	2379	2379
55°	2064	1462	1806
60°	1677	987	1381
65°	1167	817	1167
70°	1010	433	1010
75°	572	572	572
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282165

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	48.1
10°-20°	235.5	38.9
20°-30°	56.8	9.4
30°-40°	14.5	2.4
40°-50°	4.3	0.7
50°-60°	1.8	0.3
60°-70°	0.9	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	583.2	96.4
0°-40°	597.7	98.8
0°-60°	603.8	99.8
0°-90°	605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4474	4474	4474	4474	4474	
5°	3708	3674	3640	3609	3567	300
15°	916	894	814	733	682	261
25°	120	120	112	101	96	62
35°	22	22	22	20	18	15
45°	6	6	5	5	5	5
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P282165

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4473.6	4473.6	4473.6	4473.6	4473.6
1°	4453.6	4422.5	4418.7	4438.0	4381.1
2°	4339.7	4317.6	4304.9	4316.2	4251.7
3°	4183.4	4162.0	4138.9	4139.2	4067.1
4°	3970.5	3953.6	3914.6	3902.9	3861.2
5°	3708.3	3674.2	3640.3	3608.6	3566.8
6°	3418.5	3374.3	3326.0	3278.8	3236.0
7°	3077.6	3048.3	2984.4	2919.9	2883.7
8°	2757.1	2709.8	2635.3	2554.6	2523.8
9°	2412.4	2378.6	2293.0	2199.2	2168.5
10°	2099.8	2064.6	1970.4	1865.9	1839.0
11°	1806.5	1773.4	1675.4	1565.7	1537.1
12°	1558.5	1511.5	1399.1	1303.8	1275.9
13°	1311.4	1279.3	1172.7	1078.5	1024.4
14°	1101.3	1074.7	978.1	895.3	838.1
15°	916.0	894.3	813.6	732.8	681.8
16°	751.5	738.0	674.2	596.2	554.5
17°	609.7	597.2	556.5	484.8	449.6
18°	492.3	490.6	456.8	394.7	363.3
19°	405.1	404.4	373.3	321.2	295.3
20°	323.3	327.8	304.0	258.4	240.8
21°	263.6	266.0	247.0	212.5	196.7
22°	214.6	216.3	203.9	175.6	167.0
23°	176.0	177.0	166.6	145.6	138.0
24°	144.9	145.6	136.3	121.4	114.9
25°	119.7	120.4	111.8	101.4	96.3
26°	99.4	100.1	92.5	85.2	80.0
27°	82.5	83.8	76.3	71.8	66.2
28°	70.4	70.7	63.8	61.1	55.9
29°	57.6	59.7	53.8	51.4	47.6
30°	49.3	50.4	45.9	44.2	40.7
32.5°	32.8	33.5	31.4	30.0	27.3
35°	22.1	22.4	22.1	20.0	18.3
37.5°	15.2	15.2	15.5	13.1	12.4
40°	10.4	10.4	10.7	9.0	8.6
42.5°	7.6	7.6	7.2	6.2	6.2
45°	5.5	5.5	5.2	4.8	4.8
47.5°	4.5	4.1	3.8	3.8	3.8
50°	3.5	3.5	3.1	2.8	3.1
52.5°	2.8	2.8	2.4	2.4	2.4
55°	2.4	2.1	1.7	1.7	2.1
57.5°	1.7	1.7	1.4	1.4	1.7
60°	1.7	1.4	1.0	1.4	1.4



TEST NUMBER: P282165

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.3	0.3	0.7
72.5°	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.0	0.0	0.3
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







62.5°	1.4	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)