

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: P282645

Luminaire Tested: **LDA2B059035D010 EU2B05NFL259035 2LBALPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282645
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 2LBALPINSQ1MB
Description: PORTFOLIO 2IN ADJ 500 LUMEN LED LUMINAIRE WITH NARROW FLOOD OPTIC AND 2in Adj SQ Pinhole w-lens, MB
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 556.0 lumens
Efficiency: N/A
Efficacy: 79.4 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

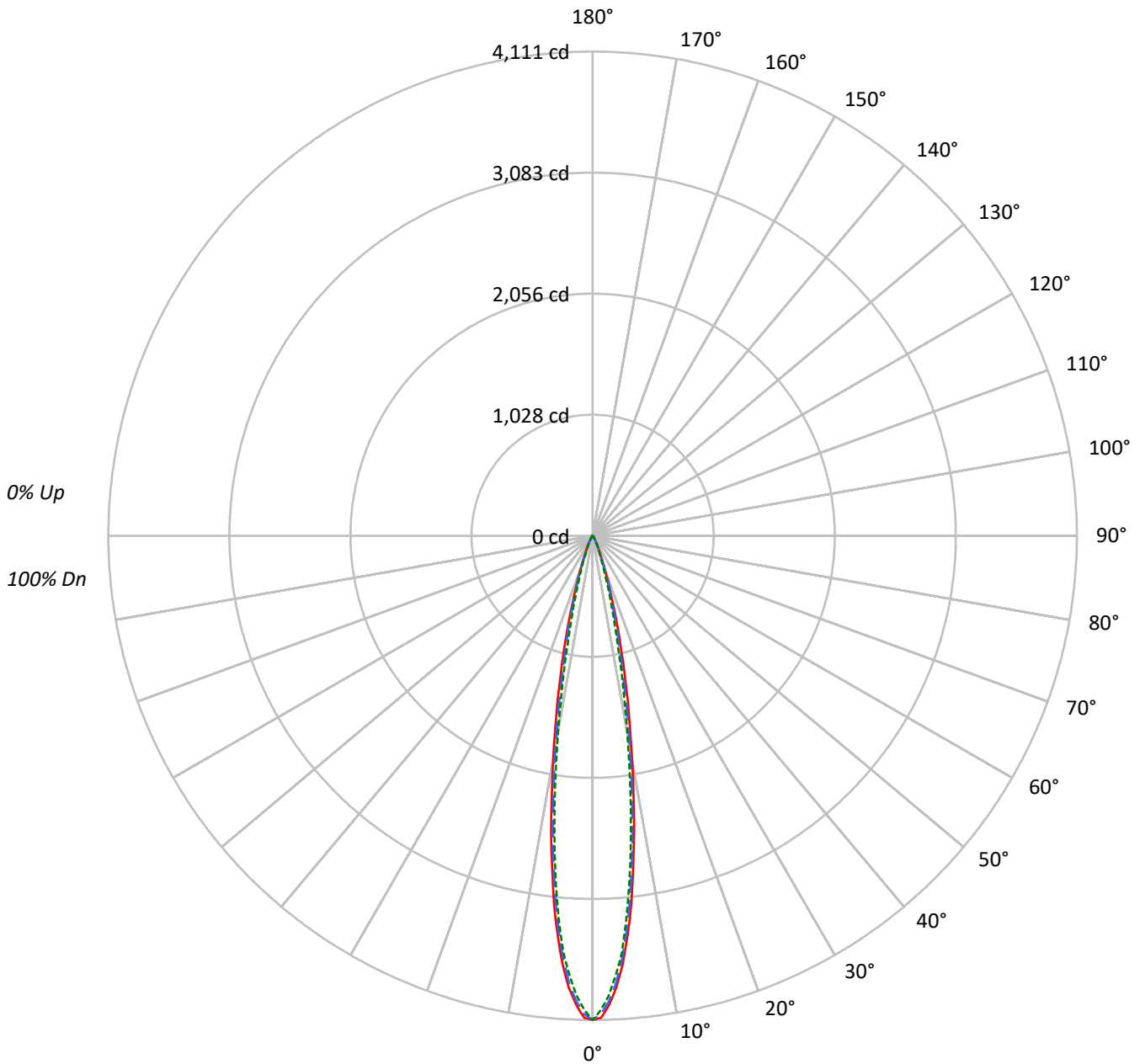
Input Watts (W): 7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282645

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBALPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282645

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBALPINSQ1MB

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				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°	2028408	2028408	2028408
5°	1687849	1656896	1623467
10°	966777	907211	846694
15°	430014	381900	320046
20°	155985	146692	116188
25°	59880	55906	48176
30°	25807	24041	21306
35°	12226	12226	10118
40°	6118	6312	5088
45°	3558	3349	3070
50°	2456	2226	2226
55°	1892	1376	1634
60°	1579	987	1283
65°	1167	700	1167
70°	865	433	865
75°	572	572	572
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282645

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBALPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	48.1
10°-20°	216.4	38.9
20°-30°	52.2	9.4
30°-40°	13.3	2.4
40°-50°	4.0	0.7
50°-60°	1.7	0.3
60°-70°	0.8	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°	536.0	96.4
0°-40°	549.3	98.8
0°-60°	555.0	99.8
0°-90°	556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4111	4111	4111	4111	4111	
5°	3408	3377	3346	3316	3278	276
15°	842	822	748	674	627	240
25°	110	111	103	93	88	57
35°	20	21	20	18	17	14
45°	5	5	5	4	4	4
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: P282645

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBALPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4111.4	4111.4	4111.4	4111.4	4111.4
1°	4093.0	4064.5	4061.0	4078.7	4026.4
2°	3988.4	3968.1	3956.3	3966.8	3907.5
3°	3844.7	3825.1	3803.8	3804.1	3737.9
4°	3649.1	3633.5	3597.7	3586.9	3548.6
5°	3408.1	3376.7	3345.6	3316.5	3278.1
6°	3141.7	3101.1	3056.8	3013.3	2974.0
7°	2828.4	2801.5	2742.8	2683.5	2650.2
8°	2533.9	2490.4	2421.9	2347.7	2319.5
9°	2217.1	2186.0	2107.4	2021.1	1992.9
10°	1929.8	1897.5	1810.9	1714.8	1690.1
11°	1660.3	1629.8	1539.8	1439.0	1412.6
12°	1432.3	1389.2	1285.8	1198.3	1172.6
13°	1205.3	1175.8	1077.8	991.2	941.4
14°	1012.2	987.7	899.0	822.9	770.2
15°	841.9	821.9	747.7	673.5	626.6
16°	690.6	678.3	619.6	547.9	509.6
17°	560.3	548.9	511.5	445.5	413.2
18°	452.5	450.9	419.8	362.8	333.9
19°	372.3	371.6	343.1	295.2	271.4
20°	297.1	301.2	279.4	237.5	221.3
21°	242.3	244.5	227.0	195.3	180.7
22°	197.2	198.8	187.4	161.4	153.5
23°	161.7	162.7	153.2	133.8	126.8
24°	133.2	133.8	125.3	111.6	105.6
25°	110.0	110.7	102.7	93.2	88.5
26°	91.3	92.0	85.0	78.3	73.6
27°	75.8	77.1	70.1	66.0	60.9
28°	64.7	65.0	58.7	56.1	51.4
29°	53.0	54.9	49.5	47.2	43.8
30°	45.3	46.3	42.2	40.6	37.4
32.5°	30.1	30.8	28.9	27.6	25.1
35°	20.3	20.6	20.3	18.4	16.8
37.5°	14.0	14.0	14.3	12.0	11.4
40°	9.5	9.5	9.8	8.2	7.9
42.5°	7.0	7.0	6.7	5.7	5.7
45°	5.1	5.1	4.8	4.4	4.4
47.5°	4.1	3.8	3.5	3.5	3.5
50°	3.2	3.2	2.9	2.5	2.9
52.5°	2.5	2.5	2.2	2.2	2.2
55°	2.2	1.9	1.6	1.6	1.9
57.5°	1.6	1.6	1.3	1.3	1.6
60°	1.6	1.3	1.0	1.3	1.3



TEST NUMBER: P282645

CATALOG NUMBER: LDA2B059035D010 EU2B05NFL259035 2LBALPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.0	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.3	0.3	0.6
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°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.6	0.6	1.0



(END OF REPORT)