

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: P282249

Luminaire Tested: **LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P282249
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: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1000 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: 821.9 lumens
Efficiency: N/A
Efficacy: 82.2 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

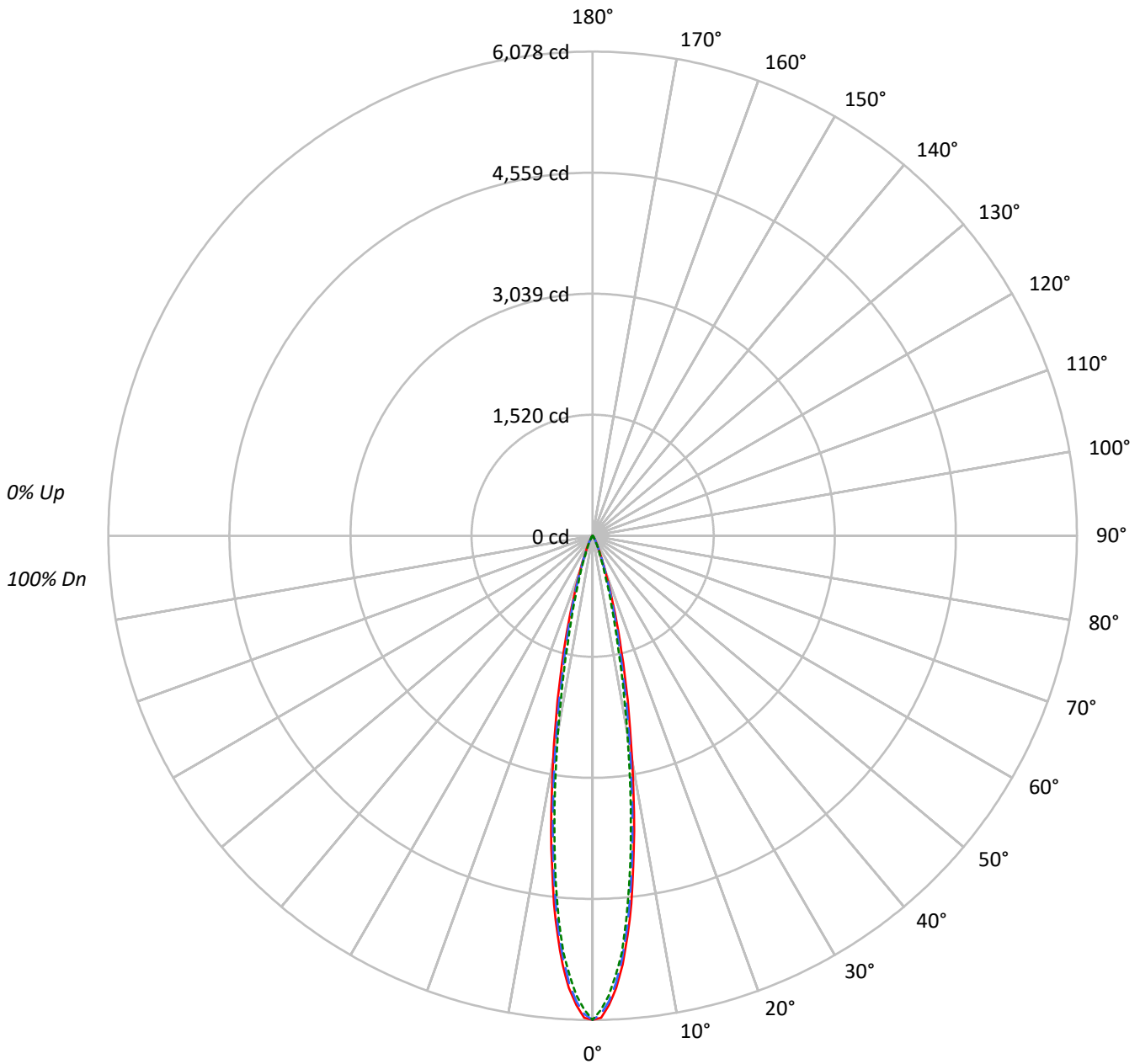
Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P282249

CATALOG NUMBER: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MB

Luminous Intensity Polar Plot





TEST NUMBER: P282249

CATALOG NUMBER: LDA2B109035D010 EU2B10NFL259035 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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97																			
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95																			
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92																			
4	106	101	98	95	105	100	97	94	98	96	93	96	94	92	95	93	91	90																			
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88																			
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86																			
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84																			
8	96	91	87	85	96	90	87	84	89	86	84	88	86	84	88	85	83	83																			
9	94	89	85	83	94	88	85	82	87	84	82	87	84	82	86	84	82	81																			
10	93	87	83	81	92	86	83	81	86	83	81	85	82	80	85	82	80	79																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2998456	2998456	2998456
5°	2495051	2449290	2399865
10°	1429125	1341054	1251630
15°	635648	564549	473071
20°	230591	216835	171788
25°	88568	82689	71203
30°	38169	35491	31504
35°	18069	18069	14937
40°	9081	9339	7535
45°	5233	4884	4605
50°	3607	3224	3224
55°	2838	1978	2408
60°	2269	1381	1875
65°	1634	1051	1634
70°	1298	721	1298
75°	953	953	953
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282249

CATALOG NUMBER: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.3	48.1
10°-20°	319.9	38.9
20°-30°	77.1	9.4
30°-40°	19.7	2.4
40°-50°	5.9	0.7
50°-60°	2.5	0.3
60°-70°	1.2	0.1
70°-80°	0.4	0.1
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°	792.3	96.4
0°-40°	812.0	98.8
0°-60°	820.3	99.8
0°-90°	821.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6078	6078	6078	6078	6078	
5°	5038	4992	4946	4902	4846	407
15°	1244	1215	1105	996	926	355
25°	163	164	152	138	131	84
35°	30	30	30	27	25	21
45°	8	8	7	7	7	6
55°	3	3	2	2	3	3
65°	1	1	1	1	1	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P282249

CATALOG NUMBER: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6077.6	6077.6	6077.6	6077.6	6077.6
1°	6050.4	6008.2	6003.1	6029.3	5952.0
2°	5895.7	5865.7	5848.4	5863.9	5776.2
3°	5683.4	5654.3	5622.9	5623.4	5525.4
4°	5394.2	5371.2	5318.3	5302.3	5245.6
5°	5038.0	4991.6	4945.6	4902.5	4845.8
6°	4644.2	4584.2	4518.6	4454.4	4396.3
7°	4181.1	4141.3	4054.6	3966.9	3917.7
8°	3745.7	3681.4	3580.2	3470.5	3428.8
9°	3277.4	3231.5	3115.2	2987.7	2946.0
10°	2852.7	2804.9	2676.9	2534.9	2498.4
11°	2454.3	2409.3	2276.2	2127.1	2088.2
12°	2117.3	2053.5	1900.7	1771.3	1733.4
13°	1781.7	1738.1	1593.2	1465.3	1391.7
14°	1496.2	1460.1	1328.9	1216.4	1138.6
15°	1244.5	1215.0	1105.3	995.6	926.2
16°	1020.9	1002.6	915.9	810.0	753.3
17°	828.3	811.4	756.1	658.6	610.8
18°	668.9	666.5	620.6	536.2	493.6
19°	550.3	549.4	507.2	436.4	401.2
20°	439.2	445.3	413.0	351.1	327.2
21°	358.1	361.4	335.6	288.7	267.2
22°	291.6	293.9	277.0	238.6	226.9
23°	239.1	240.5	226.4	197.8	187.5
24°	196.9	197.8	185.2	165.0	156.1
25°	162.7	163.6	151.9	137.8	130.8
26°	135.0	135.9	125.6	115.8	108.7
27°	112.0	113.9	103.6	97.5	90.0
28°	95.6	96.1	86.7	83.0	75.9
29°	78.3	81.1	73.1	69.8	64.7
30°	67.0	68.4	62.3	60.0	55.3
32.5°	44.5	45.5	42.7	40.8	37.0
35°	30.0	30.5	30.0	27.2	24.8
37.5°	20.6	20.6	21.1	17.8	16.9
40°	14.1	14.1	14.5	12.2	11.7
42.5°	10.3	10.3	9.8	8.4	8.4
45°	7.5	7.5	7.0	6.6	6.6
47.5°	6.1	5.6	5.2	5.2	5.2
50°	4.7	4.7	4.2	3.7	4.2
52.5°	3.7	3.7	3.3	3.3	3.3
55°	3.3	2.8	2.3	2.3	2.8
57.5°	2.3	2.3	1.9	1.9	2.3
60°	2.3	1.9	1.4	1.9	1.9



TEST NUMBER: P282249

CATALOG NUMBER: LDA2B109035D010 EU2B10NFL259035 2LBAPINSQ1MB

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
67.5°	1.4	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.5	0.5	0.9
72.5°	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.5	0.5	0.0	0.0	0.5
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°	1.9	1.4	1.4	1.4	1.4
65°	1.4	1.4	0.9	0.9	1.4



(END OF REPORT)