

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: P282651

Luminaire Tested: **LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P282651  
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: LDA2B059050D010 EU2B05NFL259050 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: 583.4 lumens  
Efficiency: N/A  
Efficacy: 83.3 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

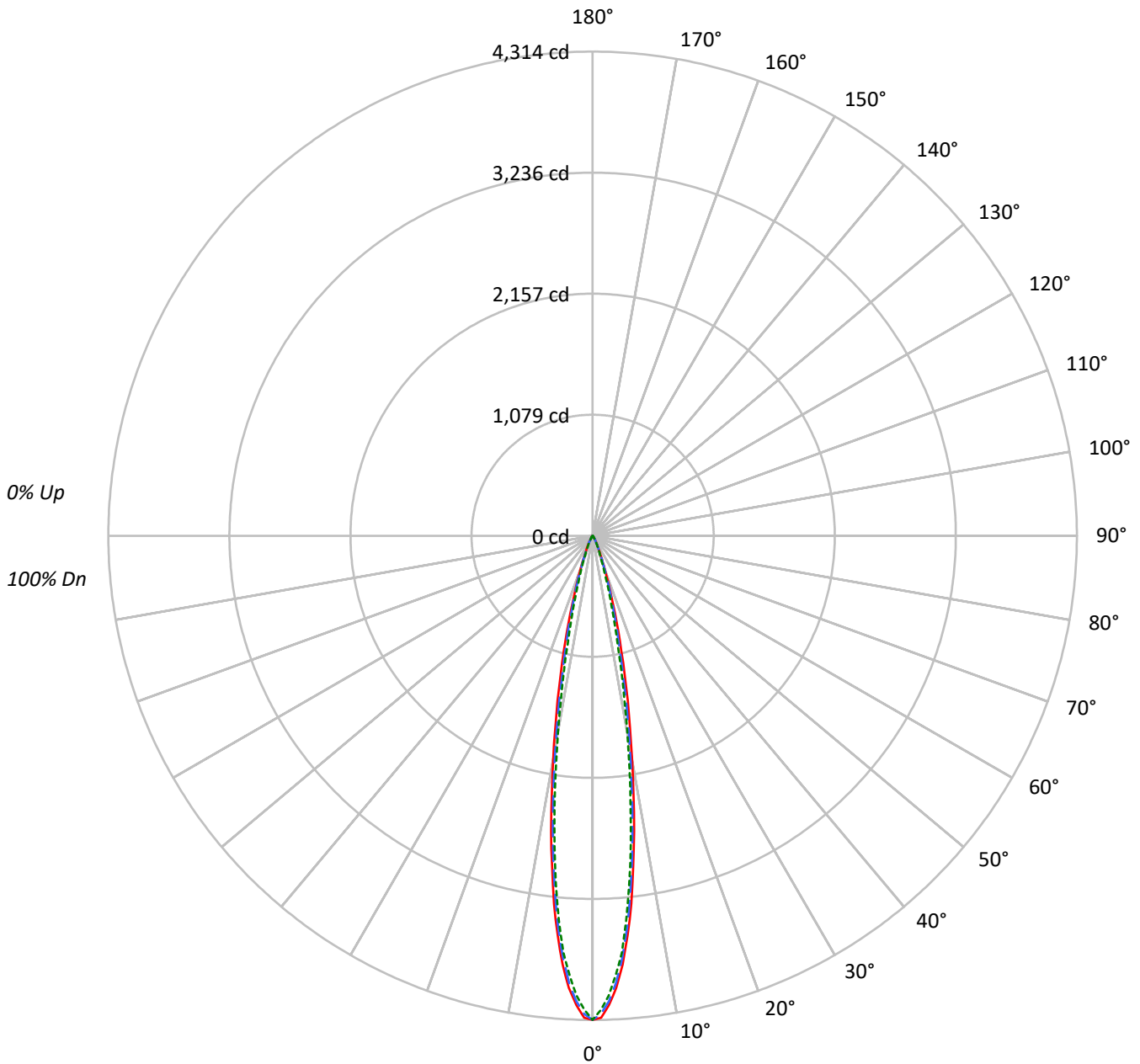
Input Watts (W): 7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P282651

CATALOG NUMBER: LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P282651

CATALOG NUMBER: LDA2B059050D010 EU2B05NFL259050 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°	2128215	2128215	2128215
5°	1770902	1738414	1703350
10°	1014370	951848	888325
15°	451159	400696	335777
20°	163650	153885	121911
25°	62820	58682	50517
30°	27117	25180	22389
35°	12829	12829	10600
40°	6440	6634	5346
45°	3698	3489	3279
50°	2533	2303	2303
55°	1978	1462	1720
60°	1677	987	1283
65°	1167	817	1167
70°	1010	433	1010
75°	572	572	572
80°	0	0	0
85°	0	0	0



TEST NUMBER: P282651

CATALOG NUMBER: LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.6	48.1
10°-20°	227.0	38.9
20°-30°	54.8	9.4
30°-40°	14.0	2.4
40°-50°	4.2	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°	562.4	96.4
0°-40°	576.3	98.8
0°-60°	582.3	99.8
0°-90°	583.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	583.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4314	4314	4314	4314	4314	
5°	3576	3543	3510	3480	3439	289
15°	883	862	784	707	657	252
25°	115	116	108	98	93	60
35°	21	22	21	19	18	15
45°	5	5	5	5	5	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: P282651

CATALOG NUMBER: LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4313.7	4313.7	4313.7	4313.7	4313.7
1°	4294.4	4264.4	4260.8	4279.4	4224.5
2°	4184.6	4163.3	4151.0	4162.0	4099.8
3°	4033.9	4013.3	3991.0	3991.3	3921.8
4°	3828.6	3812.3	3774.7	3763.4	3723.2
5°	3575.8	3542.8	3510.2	3479.6	3439.4
6°	3296.3	3253.7	3207.2	3161.6	3120.3
7°	2967.6	2939.3	2877.8	2815.6	2780.6
8°	2658.5	2613.0	2541.1	2463.3	2433.6
9°	2326.2	2293.6	2211.1	2120.6	2091.0
10°	2024.8	1990.8	1900.0	1799.2	1773.2
11°	1742.0	1710.0	1615.6	1509.8	1482.1
12°	1502.8	1457.5	1349.1	1257.2	1230.3
13°	1264.6	1233.6	1130.8	1040.0	987.8
14°	1062.0	1036.3	943.2	863.3	808.1
15°	883.3	862.3	784.5	706.6	657.4
16°	724.6	711.6	650.1	574.9	534.6
17°	587.9	575.9	536.6	467.4	433.5
18°	474.8	473.1	440.5	380.6	350.3
19°	390.6	389.9	360.0	309.7	284.8
20°	311.7	316.1	293.1	249.2	232.2
21°	254.2	256.5	238.2	204.9	189.6
22°	206.9	208.6	196.6	169.3	161.0
23°	169.7	170.7	160.7	140.4	133.1
24°	139.7	140.4	131.4	117.1	110.8
25°	115.4	116.1	107.8	97.8	92.8
26°	95.8	96.5	89.2	82.2	77.2
27°	79.5	80.8	73.5	69.2	63.9
28°	67.9	68.2	61.5	58.9	53.9
29°	55.6	57.6	51.9	49.6	45.9
30°	47.6	48.6	44.2	42.6	39.3
32.5°	31.6	32.3	30.3	28.9	26.3
35°	21.3	21.6	21.3	19.3	17.6
37.5°	14.6	14.6	15.0	12.6	12.0
40°	10.0	10.0	10.3	8.6	8.3
42.5°	7.3	7.3	7.0	6.0	6.0
45°	5.3	5.3	5.0	4.7	4.7
47.5°	4.3	4.0	3.7	3.7	3.7
50°	3.3	3.3	3.0	2.7	3.0
52.5°	2.7	2.7	2.3	2.3	2.3
55°	2.3	2.0	1.7	1.7	2.0
57.5°	1.7	1.7	1.3	1.3	1.7
60°	1.7	1.3	1.0	1.3	1.3



TEST NUMBER: P282651

CATALOG NUMBER: LDA2B059050D010 EU2B05NFL259050 2LBALPINSQ1MB

**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°	1.3	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.7	0.7	1.0



(END OF REPORT)