

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: P223277

Luminaire Tested: **LD2B05D010 EU2B05NFL258035 2LBDL\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05NFL258035 2LBDL\*GPH  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH GRAPHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 725.0 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

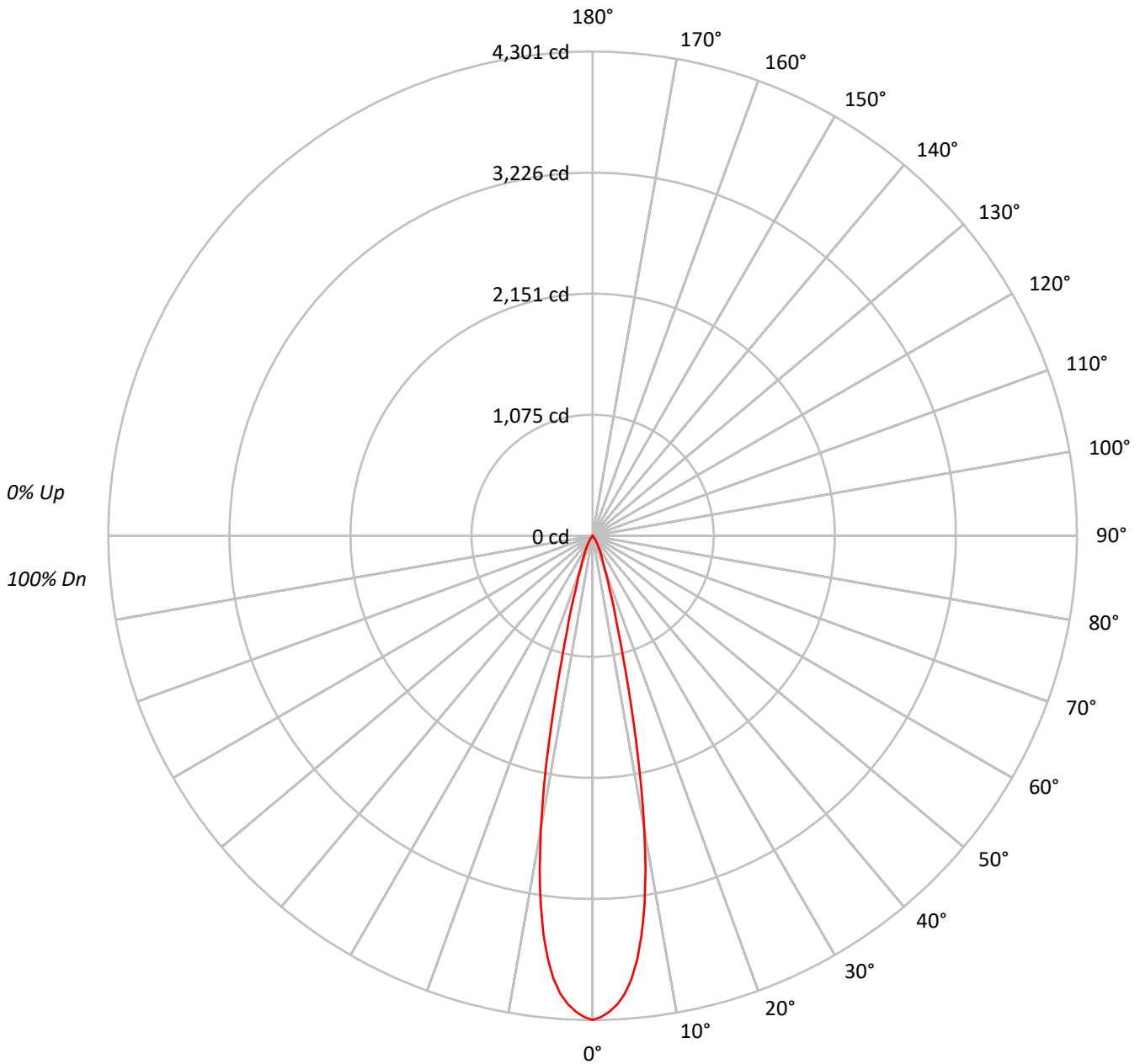
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223277

CATALOG NUMBER: LD2B05D010 EU2B05NFL258035 2LBDL\*GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P223277

CATALOG NUMBER: LD2B05D010 EU2B05NFL258035 2LBDL\*GPH

**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	104	102	104	102	100	101	99	98	98	97	96	95				95															
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92				92															
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90				90															
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88				88															
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86				86															
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84				84															
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82				82															
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80				80															
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79				79															

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1666053
5°	1538272
10°	1041200
15°	354252
20°	130092
25°	68981
30°	35468
35°	16550
40°	5410
45°	2739
50°	1265
55°	473
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223277

CATALOG NUMBER: LD2B05D010 EU2B05NFL258035 2LBDL\*GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.5	46.4
10°-20°	283.0	39.0
20°-30°	77.7	10.7
30°-40°	22.6	3.1
40°-50°	4.2	0.6
50°-60°	0.9	0.1
60°-70°	0.1	0.0
70°-80°	0.0	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°	697.1	96.2
0°-40°	719.8	99.3
0°-60°	724.9	100.0
0°-90°	725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4301	
5°	3956	337
15°	883	283
25°	161	78
35°	35	23
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223277

CATALOG NUMBER: LD2B05D010 EU2B05NFL258035 2LBDL\*GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4301.2
1°	4276.2
2°	4231.9
3°	4168.3
4°	4081.2
5°	3956.2
6°	3785.6
7°	3572.0
8°	3311.4
9°	3003.6
10°	2647.2
11°	2256.6
12°	1850.3
13°	1462.5
14°	1131.9
15°	883.4
17.5°	498.5
20°	315.6
22.5°	224.9
25°	161.4
27.5°	114.3
30°	79.3
32.5°	55.7
35°	35.0
37.5°	14.3
40°	10.7
42.5°	7.9
45°	5.0
47.5°	2.9
50°	2.1
52.5°	1.4
55°	0.7
57.5°	0.7
60°	0.7
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



TEST NUMBER: P223277

CATALOG NUMBER: LD2B05D010 EU2B05NFL258035 2LBDL\*GPH

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)