

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: P223206

Luminaire Tested: **LD2B05D010 EU2B05NFL258040 2LBDL\*WMH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223206  
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 EU2B05NFL258040 2LBDL\*WMH  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
NARROW FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH WHEAT METALLIC HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 755.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

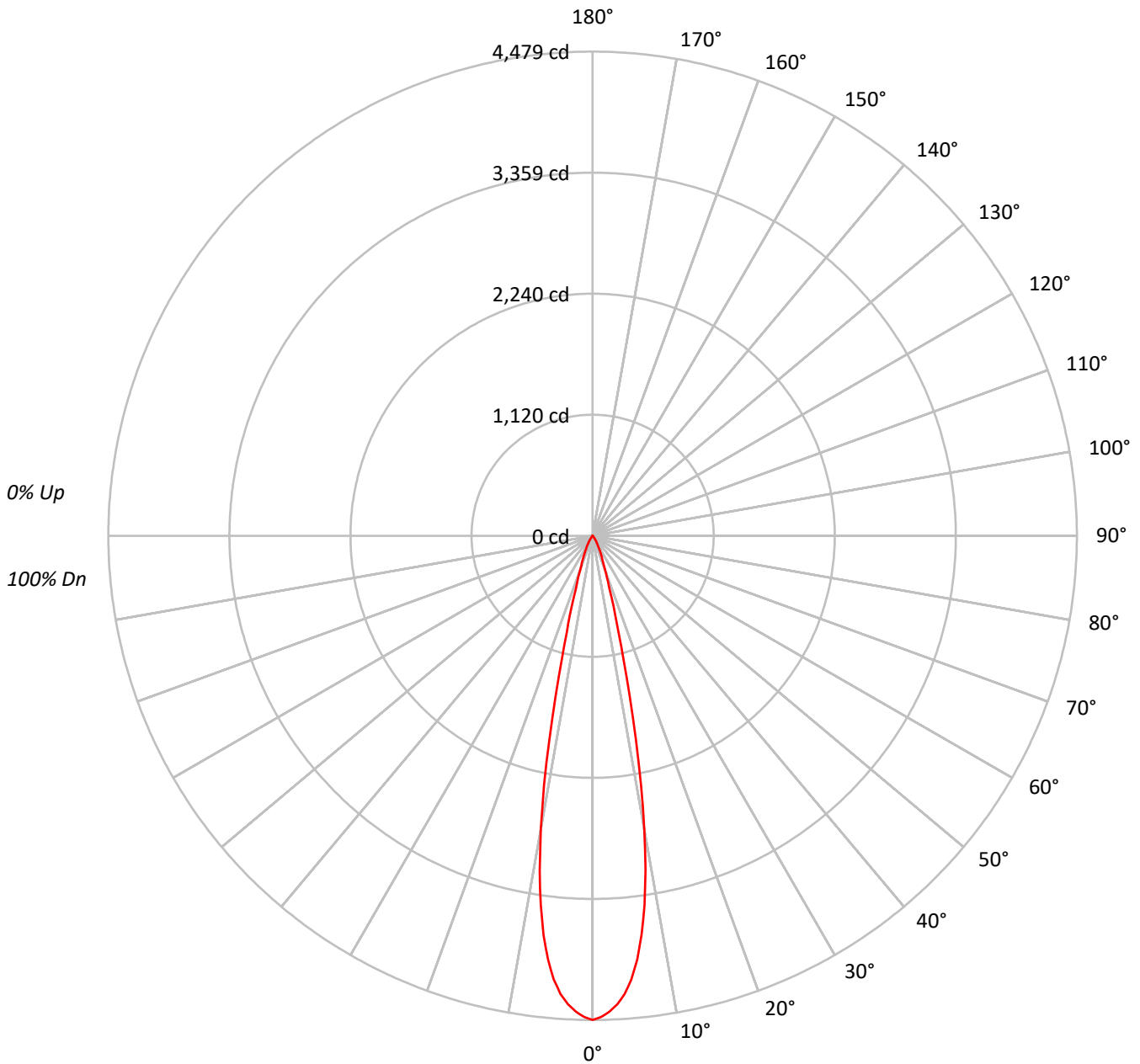
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P223206

CATALOG NUMBER: LD2B05D010 EU2B05NFL258040 2LBDL\*WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P223206

CATALOG NUMBER: LD2B05D010 EU2B05NFL258040 2LBDL\*WMH

**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	87	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°	1734961
5°	1601923
10°	1084309
15°	368889
20°	135492
25°	71844
30°	36900
35°	17212
40°	5663
45°	2849
50°	1326
55°	473
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P223206

CATALOG NUMBER: LD2B05D010 EU2B05NFL258040 2LBDL\*WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.5	46.4
10°-20°	294.7	39.0
20°-30°	80.9	10.7
30°-40°	23.6	3.1
40°-50°	4.4	0.6
50°-60°	1.0	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°	726.0	96.2
0°-40°	749.6	99.3
0°-60°	754.9	100.0
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4479	
5°	4120	350
15°	920	295
25°	168	81
35°	36	24
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P223206

CATALOG NUMBER: LD2B05D010 EU2B05NFL258040 2LBDL\*WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4479.1
1°	4453.1
2°	4407.0
3°	4340.8
4°	4250.1
5°	4119.9
6°	3942.2
7°	3719.8
8°	3448.4
9°	3127.9
10°	2756.8
11°	2350.0
12°	1926.9
13°	1523.0
14°	1178.7
15°	919.9
17.5°	519.1
20°	328.7
22.5°	234.3
25°	168.1
27.5°	119.0
30°	82.5
32.5°	58.0
35°	36.4
37.5°	14.9
40°	11.2
42.5°	8.2
45°	5.2
47.5°	3.0
50°	2.2
52.5°	1.5
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: P223206

CATALOG NUMBER: LD2B05D010 EU2B05NFL258040 2LBDL\*WMH

**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)