

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: P264071

Luminaire Tested: **LD2B05D010 EU2B0510SP158040 2LBD\*GPH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P264071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-787-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B0510SP158040 2LBD\*GPH  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 724.9 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

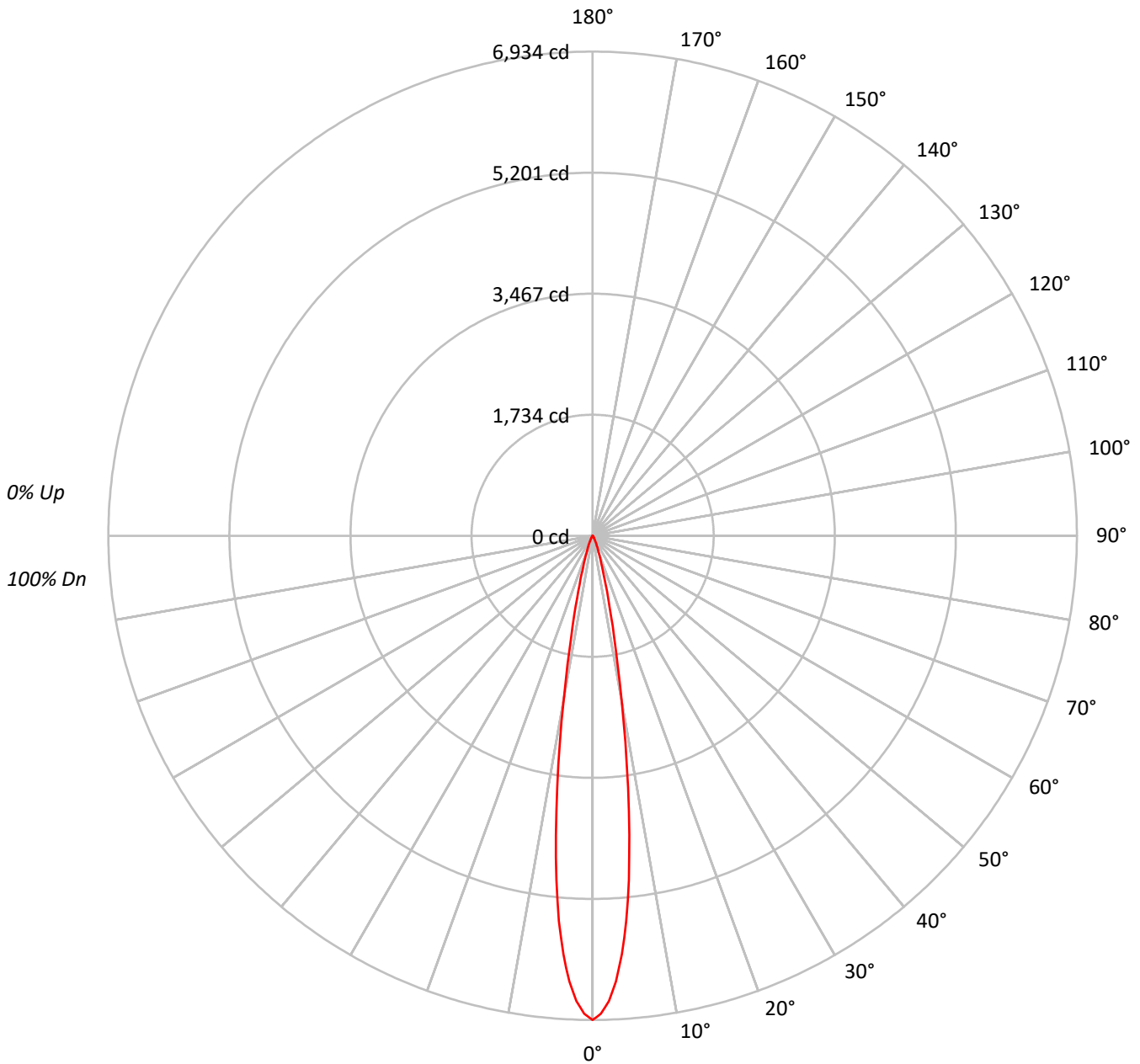
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P264071

CATALOG NUMBER: LD2B05D010 EU2B0510SP158040 2LBD\*GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P264071

CATALOG NUMBER: LD2B05D010 EU2B0510SP158040 2LBD\*GPH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98	98	98	98
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96	96	96	96
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94	94	94	94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92	92	92	92
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90	90	90	90
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89	89	89	89
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	87	87	87
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86	86	86	86
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85	85	85	85
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83	83	83	83

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

	0°
0°	3420971
5°	2742080
10°	1196824
15°	370867
20°	129314
25°	57104
30°	25864
35°	13431
40°	7664
45°	3628
50°	2303
55°	1290
60°	691
65°	817
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P264071

CATALOG NUMBER: LD2B05D010 EU2B0510SP158040 2LBD\*GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.5	58.0
10°-20°	230.3	31.8
20°-30°	52.5	7.2
30°-40°	15.1	2.1
40°-50°	4.7	0.6
50°-60°	1.4	0.2
60°-70°	0.6	0.1
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°	703.2	97.0
0°-40°	718.3	99.1
0°-60°	724.3	99.9
0°-90°	724.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	724.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6934	
5°	5537	420
15°	726	230
25°	105	52
35°	22	15
45°	5	5
55°	2	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P264071

CATALOG NUMBER: LD2B05D010 EU2B0510SP158040 2LBD\*GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6934.0
1°	6847.7
2°	6668.4
3°	6390.2
4°	6007.8
5°	5536.8
6°	4959.5
7°	4314.4
8°	3641.1
9°	2989.4
10°	2389.0
11°	1880.8
12°	1480.6
13°	1165.1
14°	920.3
15°	726.1
16°	572.9
17°	456.1
18°	366.8
19°	298.3
20°	246.3
22.5°	159.2
25°	104.9
26°	88.5
27°	75.1
28°	63.2
29°	52.8
30°	45.4
32.5°	31.2
35°	22.3
37.5°	16.4
40°	11.9
42.5°	8.2
45°	5.2
47.5°	3.7
50°	3.0
52.5°	2.2
55°	1.5
57.5°	0.7
60°	0.7
62.5°	0.7
65°	0.7
67.5°	0.7



TEST NUMBER: P264071

CATALOG NUMBER: LD2B05D010 EU2B0510SP158040 2LBD\*GPH

**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)