

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: P225166

Luminaire Tested: **LD2B05D010 EU2B05FL408050 2LBDSQC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL408050 2LBDSQC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
SQUARE CAST TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 760.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

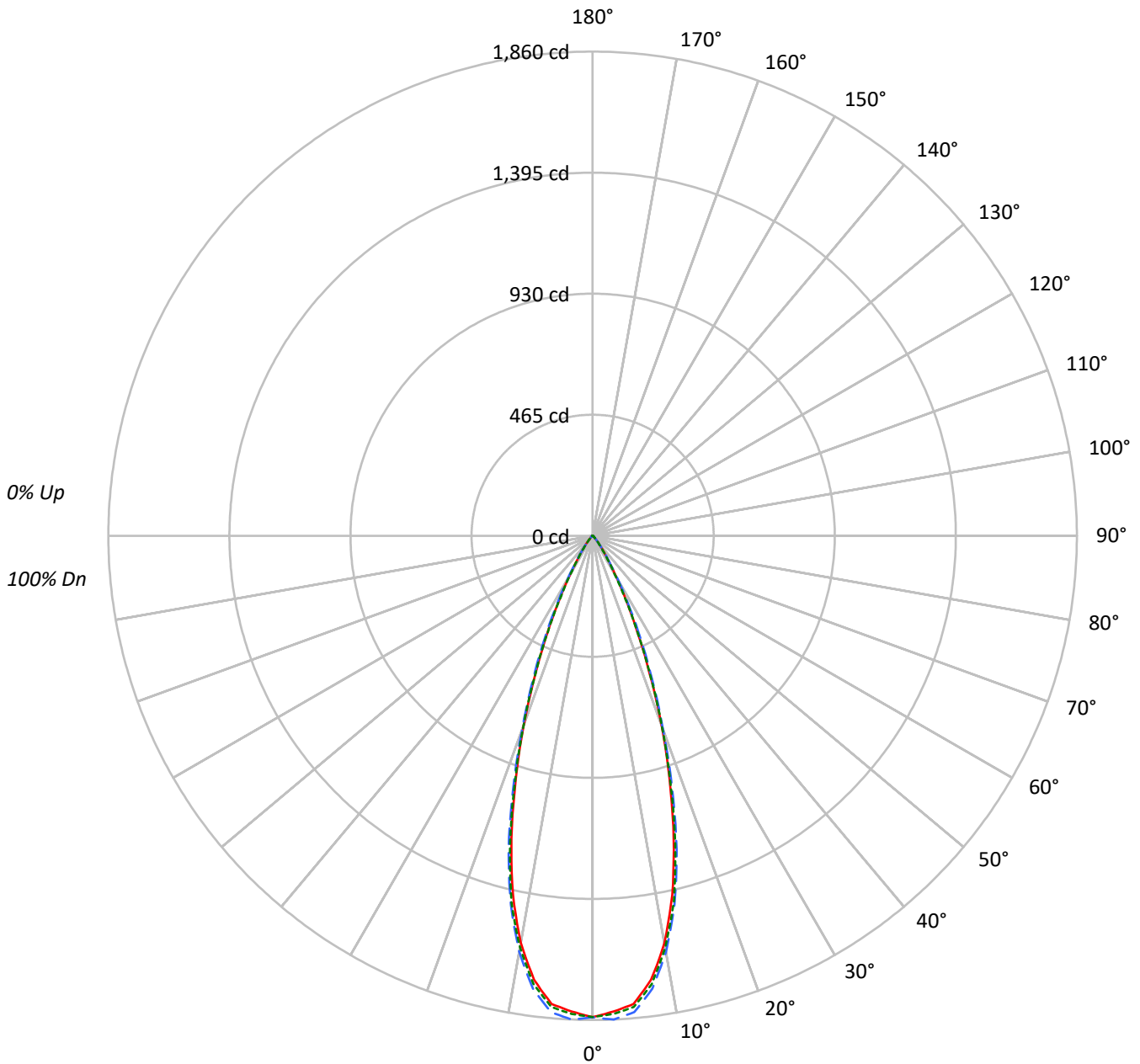
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225166

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDSQC\*MB

### Luminous Intensity Polar Plot





TEST NUMBER: P225166

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDSQC\*MB

**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	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

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

	0°	45°	90°
0°	716203	716203	716203
5°	702063	714117	706457
10°	624752	638164	631674
15°	482696	500100	491398
20°	318428	325230	320118
25°	173691	185615	174588
30°	78183	86502	74917
35°	33762	34708	30783
40°	14107	14664	13096
45°	5642	6245	6245
50°	2471	3134	3134
55°	1418	1418	2093
60°	775	775	775
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225166

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDSQC\*MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	22.0
10°-20°	332.7	43.8
20°-30°	196.5	25.9
30°-40°	51.2	6.7
40°-50°	10.1	1.3
50°-60°	2.2	0.3
60°-70°	0.2	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°	696.3	91.6
0°-40°	747.5	98.4
0°-60°	759.8	100.0
0°-90°	760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1806	1820	1837	1824	1817	165
15°	1204	1231	1247	1228	1225	327
25°	406	420	434	418	408	192
35°	71	74	73	72	65	50
45°	10	12	11	11	11	9
55°	2	2	2	2	3	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P225166

CATALOG NUMBER: LD2B05D010 EU2B05FL408050 2LBDSQC\*MB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1849.0	1849.0	1849.0	1849.0	1849.0
2.5°	1829.4	1848.0	1860.4	1850.0	1838.7
5°	1805.6	1820.0	1836.6	1824.2	1816.9
7.5°	1720.8	1742.5	1754.9	1748.7	1737.3
10°	1588.4	1605.0	1622.5	1616.3	1606.0
12.5°	1413.6	1436.4	1452.9	1438.5	1440.5
15°	1203.7	1230.6	1247.1	1228.5	1225.4
17.5°	981.4	1002.1	1013.4	1002.1	993.8
20°	772.5	784.9	789.0	783.9	776.6
22.5°	570.8	584.3	596.7	584.3	575.0
25°	406.4	419.9	434.3	417.8	408.5
27.5°	274.0	282.3	294.7	279.2	265.8
30°	174.8	184.1	193.4	182.0	167.5
32.5°	110.7	116.9	117.9	115.8	103.4
35°	71.4	74.5	73.4	72.4	65.1
37.5°	45.5	45.5	46.5	45.5	41.4
40°	27.9	30.0	29.0	27.9	25.9
42.5°	16.5	18.6	17.6	17.6	16.5
45°	10.3	12.4	11.4	11.4	11.4
47.5°	7.2	8.3	7.2	7.2	8.3
50°	4.1	5.2	5.2	5.2	5.2
52.5°	3.1	3.1	3.1	3.1	4.1
55°	2.1	2.1	2.1	2.1	3.1
57.5°	2.1	2.1	1.0	1.0	2.1
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	0.0	0.0	0.0	1.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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°







(END OF REPORT)