

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: P224752

Luminaire Tested: **LD2B05D010 EU2B05FL409024 2LBDL\**MW***

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14835)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL409024 2LBDL\*MW  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 515.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

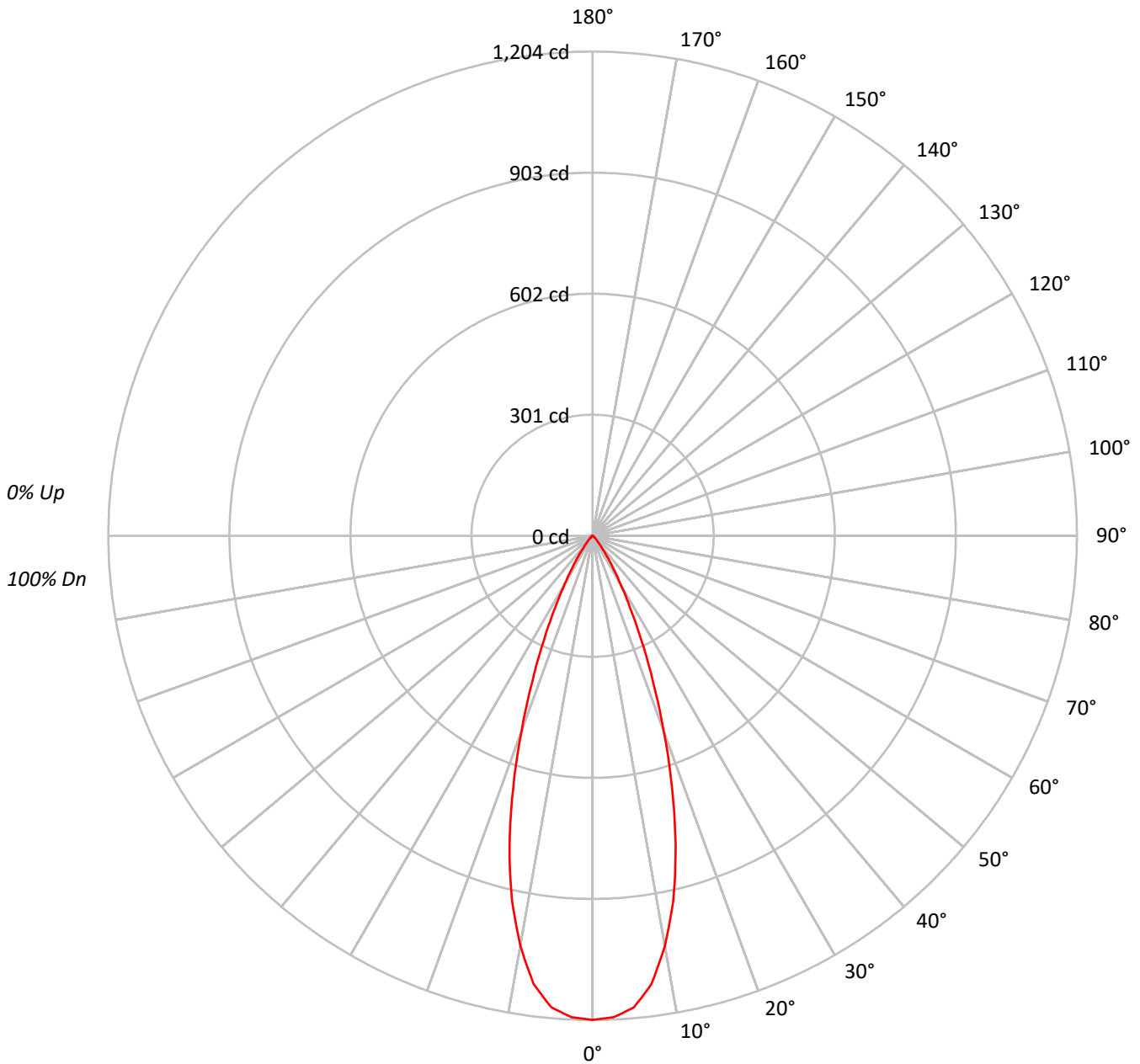
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P224752

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBDL\*MW

### Luminous Intensity Polar Plot





TEST NUMBER: P224752

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBDL\*MW

**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			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	85	88	86	84	82			
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79			
6	94	86	82	78	93	86	81	78	84	80	77	83	79	77	82	79	76	75			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72			
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69			
9	84	76	71	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66			
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64			

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

	0°
0°	466248
5°	457725
10°	406891
15°	320006
20°	212945
25°	122276
30°	61768
35°	29034
40°	11680
45°	5807
50°	3194
55°	2229
60°	2014
65°	1192
70°	1472
75°	1048
80°	1561
85°	0



TEST NUMBER: P224752

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBDL\*MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	20.9
10°-20°	216.2	42.0
20°-30°	134.5	26.1
30°-40°	41.3	8.0
40°-50°	9.1	1.8
50°-60°	3.2	0.6
60°-70°	1.6	0.3
70°-80°	1.0	0.2
80°-90°	0.3	0.1
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°	458.5	89.0
0°-40°	499.8	97.0
0°-60°	512.1	99.4
0°-90°	515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1204	
5°	1177	108
15°	798	216
25°	286	134
35°	61	41
45°	11	9
55°	3	3
65°	1	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P224752

CATALOG NUMBER: LD2B05D010 EU2B05FL409024 2LBDL\*MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1203.7
2.5°	1198.4
5°	1177.2
7.5°	1123.7
10°	1034.5
12.5°	927.5
15°	798.0
17.5°	656.7
20°	516.6
22.5°	391.8
25°	286.1
27.5°	201.5
30°	138.1
32.5°	93.1
35°	61.4
37.5°	37.0
40°	23.1
42.5°	15.9
45°	10.6
47.5°	7.3
50°	5.3
52.5°	4.6
55°	3.3
57.5°	2.6
60°	2.6
62.5°	2.0
65°	1.3
67.5°	1.3
70°	1.3
72.5°	1.3
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)