

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: P225279

Luminaire Tested: **LD2B05D010 EU2B05FL408030 2LBDC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225279  
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 EU2B05FL408030 2LBDC\*MMS  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 770.1 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

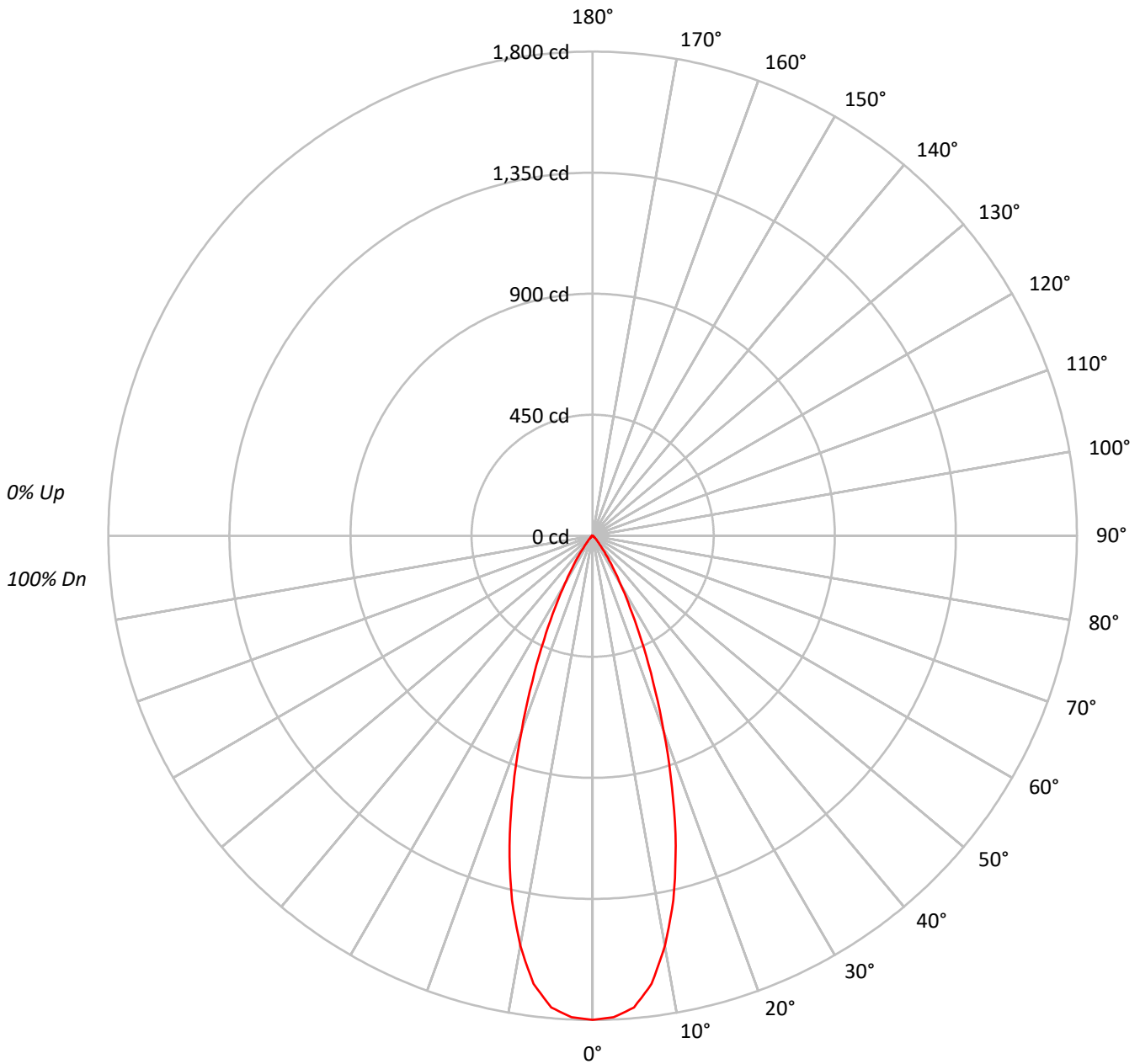
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P225279

CATALOG NUMBER: LD2B05D010 EU2B05FL408030 2LBDC\*MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P225279

CATALOG NUMBER: LD2B05D010 EU2B05FL408030 2LBDC\*MMS

**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°	697107
5°	684372
10°	608390
15°	478485
20°	318387
25°	182794
30°	92316
35°	43456
40°	17495
45°	8655
50°	4761
55°	3309
60°	3099
65°	1833
70°	2265
75°	1497
80°	2231
85°	0



TEST NUMBER: P225279

CATALOG NUMBER: LD2B05D010 EU2B05FL408030 2LBDC\*MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.2	20.9
10°-20°	323.2	42.0
20°-30°	201.1	26.1
30°-40°	61.8	8.0
40°-50°	13.6	1.8
50°-60°	4.8	0.6
60°-70°	2.5	0.3
70°-80°	1.4	0.2
80°-90°	0.4	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°	685.5	89.0
0°-40°	747.3	97.0
0°-60°	765.7	99.4
0°-90°	770.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1800	
5°	1760	161
15°	1193	323
25°	428	201
35°	92	62
45°	16	14
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P225279

CATALOG NUMBER: LD2B05D010 EU2B05FL408030 2LBDC\*MMS

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1799.7
2.5°	1791.8
5°	1760.1
7.5°	1680.1
10°	1546.8
12.5°	1386.8
15°	1193.2
17.5°	981.8
20°	772.4
22.5°	585.7
25°	427.7
27.5°	301.3
30°	206.4
32.5°	139.3
35°	91.9
37.5°	55.3
40°	34.6
42.5°	23.7
45°	15.8
47.5°	10.9
50°	7.9
52.5°	6.9
55°	4.9
57.5°	4.0
60°	4.0
62.5°	3.0
65°	2.0
67.5°	2.0
70°	2.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)