

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: P224594

Luminaire Tested: **LD2B05D010 EU2B05FL409040 2LBDLC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14836)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL409040 2LBDLC\*MMS  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED CAST ROUND TRIM WITH MATTE METALLIC SILVER  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 608.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 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

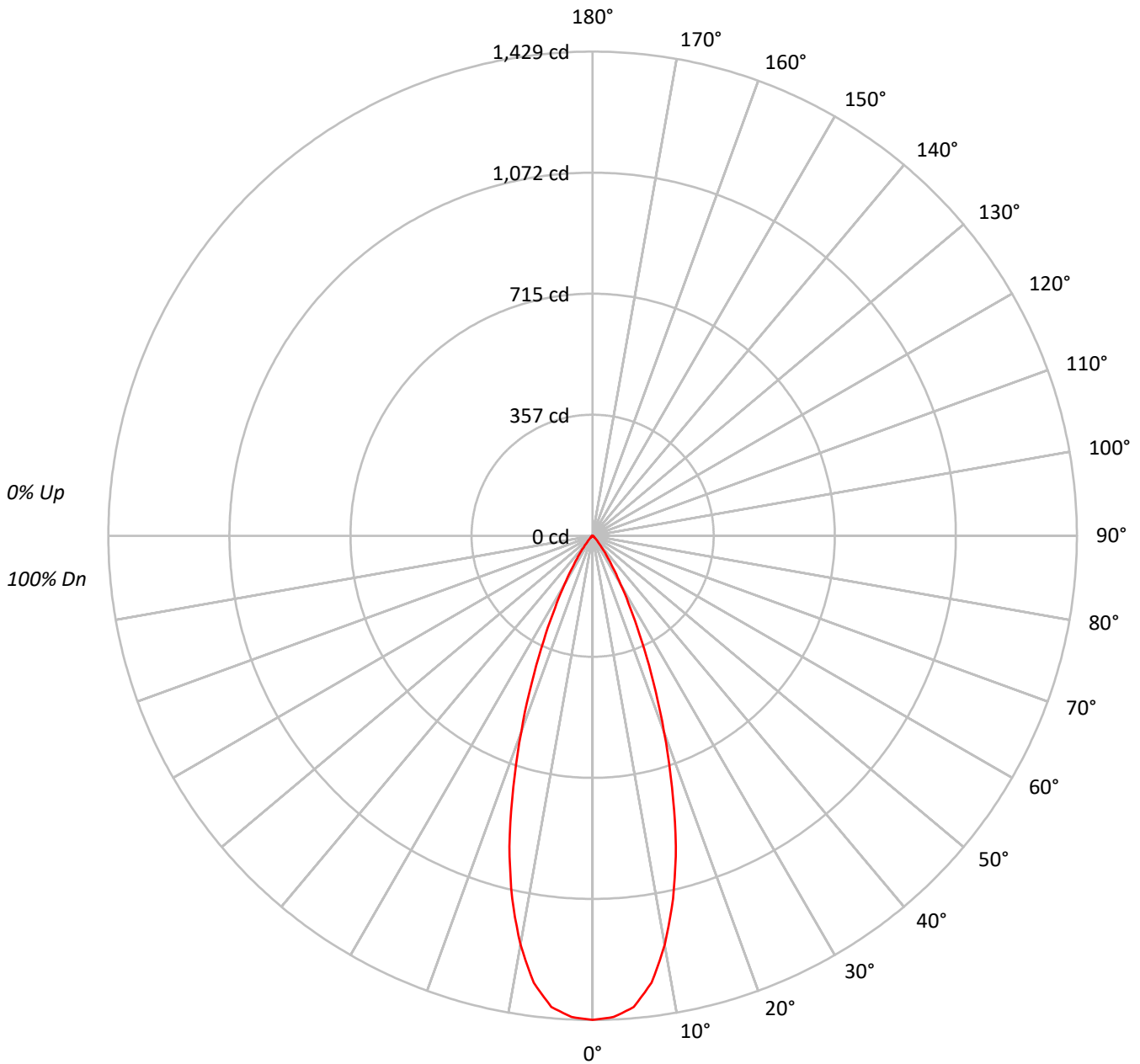
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

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

	0°
0°	553440
5°	542801
10°	482173
15°	380518
20°	253795
25°	146082
30°	73978
35°	34708
40°	14209
45°	6409
50°	3314
55°	2093
60°	1240
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	21.0
10°-20°	256.4	42.2
20°-30°	160.6	26.4
30°-40°	49.7	8.2
40°-50°	10.3	1.7
50°-60°	2.9	0.5
60°-70°	0.4	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°	544.8	89.6
0°-40°	594.5	97.8
0°-60°	607.6	99.9
0°-90°	608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1429	
5°	1396	128
15°	949	256
25°	342	161
35°	73	50
45°	12	10
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1428.8
2.5°	1421.8
5°	1396.0
7.5°	1330.5
10°	1225.9
12.5°	1097.2
15°	948.9
17.5°	778.0
20°	615.7
22.5°	468.2
25°	341.8
27.5°	240.3
30°	165.4
32.5°	110.8
35°	73.4
37.5°	46.0
40°	28.1
42.5°	17.9
45°	11.7
47.5°	7.8
50°	5.5
52.5°	3.9
55°	3.1
57.5°	2.3
60°	1.6
62.5°	0.8
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)