

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: P225281

Luminaire Tested: **LD2B05D010 EU2B05FL408040 2LBDC\*MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225281  
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 EU2B05FL408040 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: 811.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

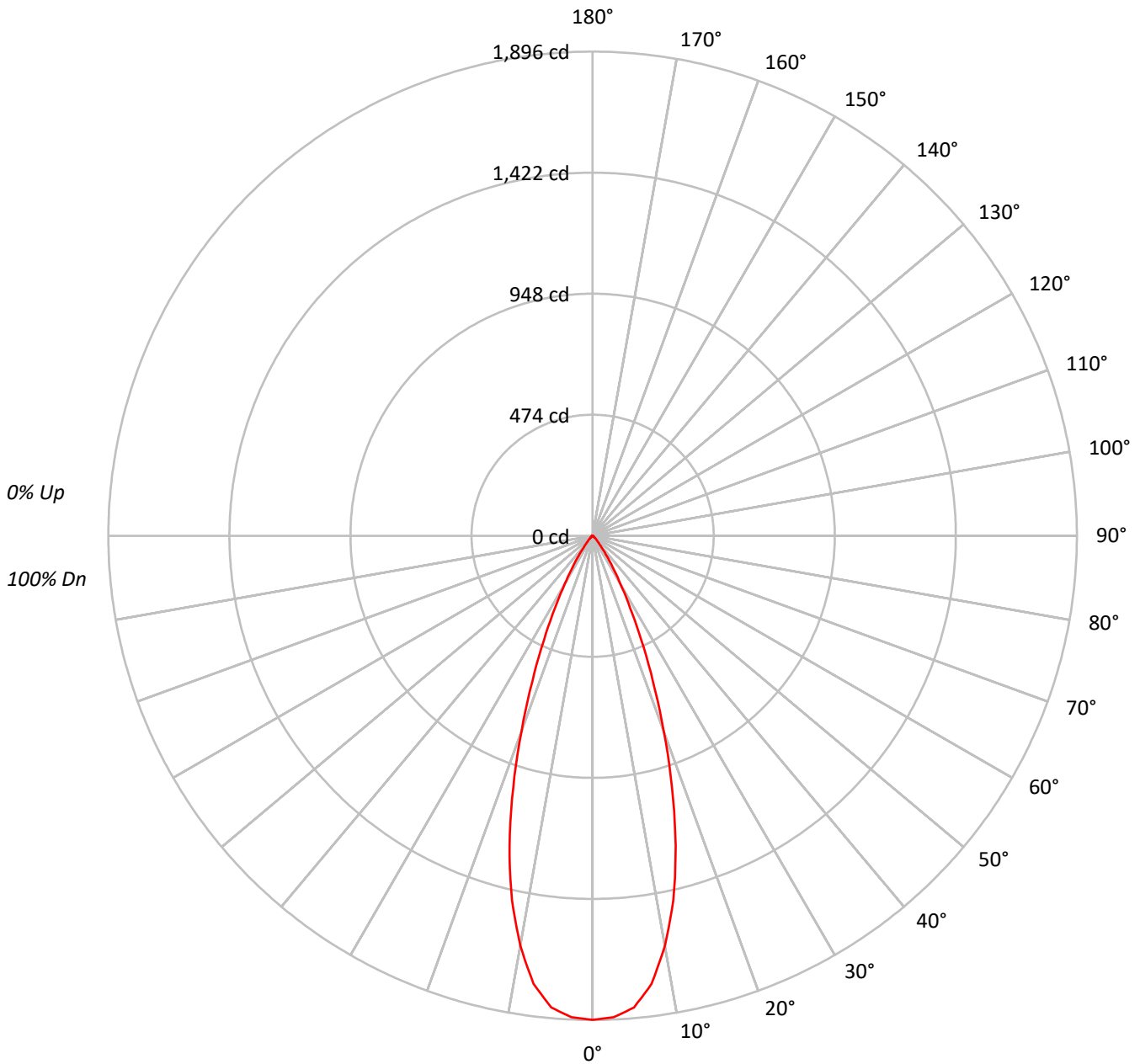
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	734214
5°	720844
10°	640799
15°	503949
20°	335329
25°	192539
30°	97236
35°	45773
40°	18405
45°	9093
50°	5002
55°	3512
60°	3254
65°	1925
70°	2378
75°	1497
80°	2231
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	20.9
10°-20°	340.4	42.0
20°-30°	211.8	26.1
30°-40°	65.1	8.0
40°-50°	14.3	1.8
50°-60°	5.1	0.6
60°-70°	2.6	0.3
70°-80°	1.5	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°	722.0	89.0
0°-40°	787.1	97.1
0°-60°	806.5	99.4
0°-90°	811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1896	
5°	1854	170
15°	1257	340
25°	450	212
35°	97	65
45°	17	14
55°	5	5
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1895.5
2.5°	1887.2
5°	1853.9
7.5°	1769.6
10°	1629.2
12.5°	1460.6
15°	1256.7
17.5°	1034.1
20°	813.5
22.5°	616.9
25°	450.5
27.5°	317.3
30°	217.4
32.5°	146.7
35°	96.8
37.5°	58.3
40°	36.4
42.5°	25.0
45°	16.6
47.5°	11.4
50°	8.3
52.5°	7.3
55°	5.2
57.5°	4.2
60°	4.2
62.5°	3.1
65°	2.1
67.5°	2.1
70°	2.1
72.5°	2.1
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)