

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: P224438

Luminaire Tested: **LD2B05D010 EU2B05FL408050 2LBDL\*WH**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14831)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL408050 2LBDL\*WH  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH WHEAT HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 770.8 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.59  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

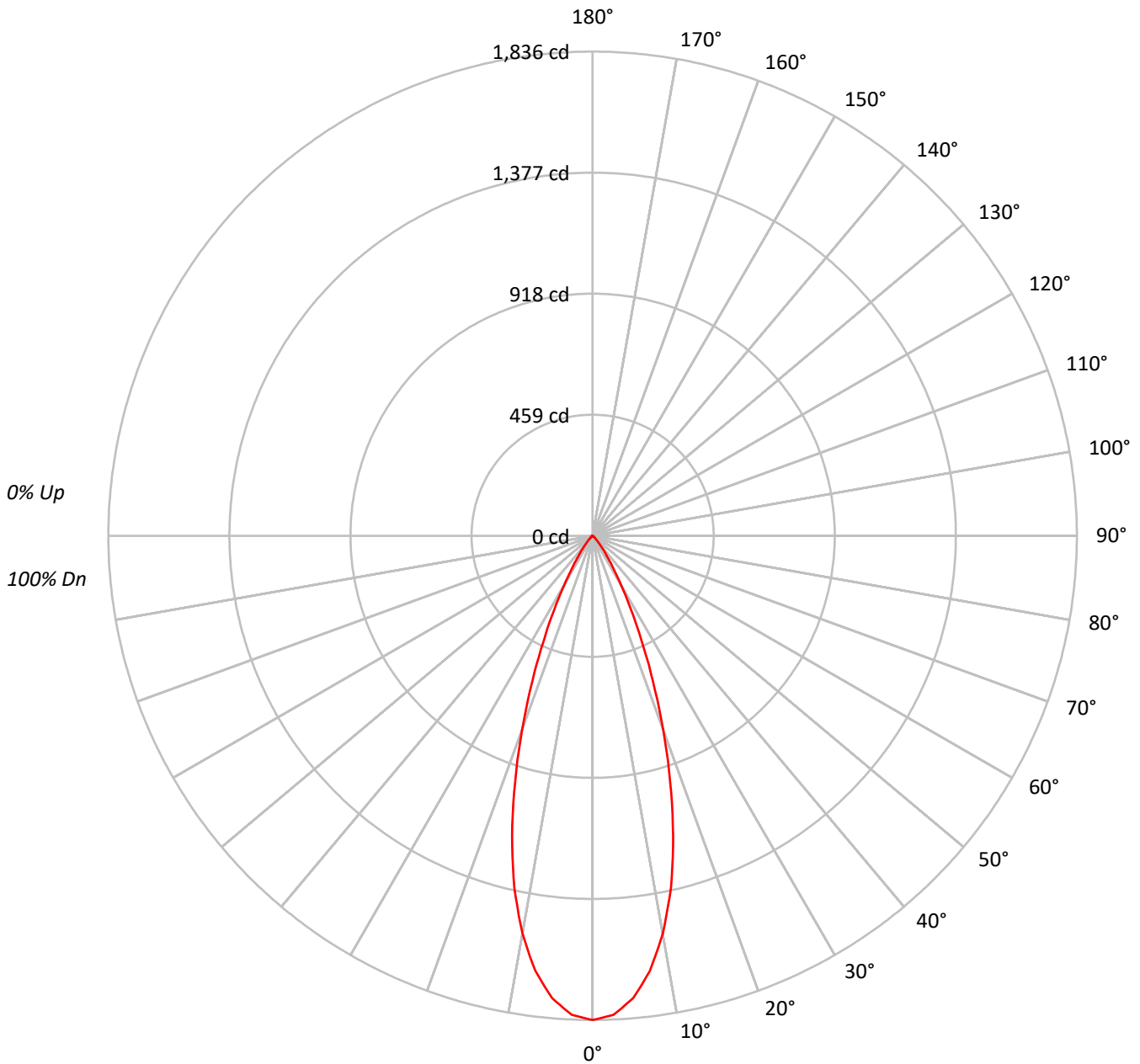
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	711167
5°	684255
10°	602293
15°	473072
20°	321644
25°	187837
30°	95671
35°	45253
40°	19771
45°	8546
50°	4098
55°	2634
60°	1549
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.7	20.9
10°-20°	320.8	41.6
20°-30°	205.9	26.7
30°-40°	65.3	8.5
40°-50°	13.9	1.8
50°-60°	3.6	0.5
60°-70°	0.5	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°	687.4	89.2
0°-40°	752.8	97.7
0°-60°	770.3	99.9
0°-90°	770.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1836	
5°	1760	161
15°	1180	321
25°	440	206
35°	96	65
45°	16	14
55°	4	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1836.0
2.5°	1818.4
5°	1759.8
7.5°	1664.1
10°	1531.3
12.5°	1369.2
15°	1179.7
17.5°	977.6
20°	780.3
22.5°	595.7
25°	439.5
27.5°	313.5
30°	213.9
32.5°	143.6
35°	95.7
37.5°	63.5
40°	39.1
42.5°	24.4
45°	15.6
47.5°	10.7
50°	6.8
52.5°	4.9
55°	3.9
57.5°	2.9
60°	2.0
62.5°	1.0
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)