

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: P225503

Luminaire Tested: **LD2B05D010 EU2B05FL408040 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL408040 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 757.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

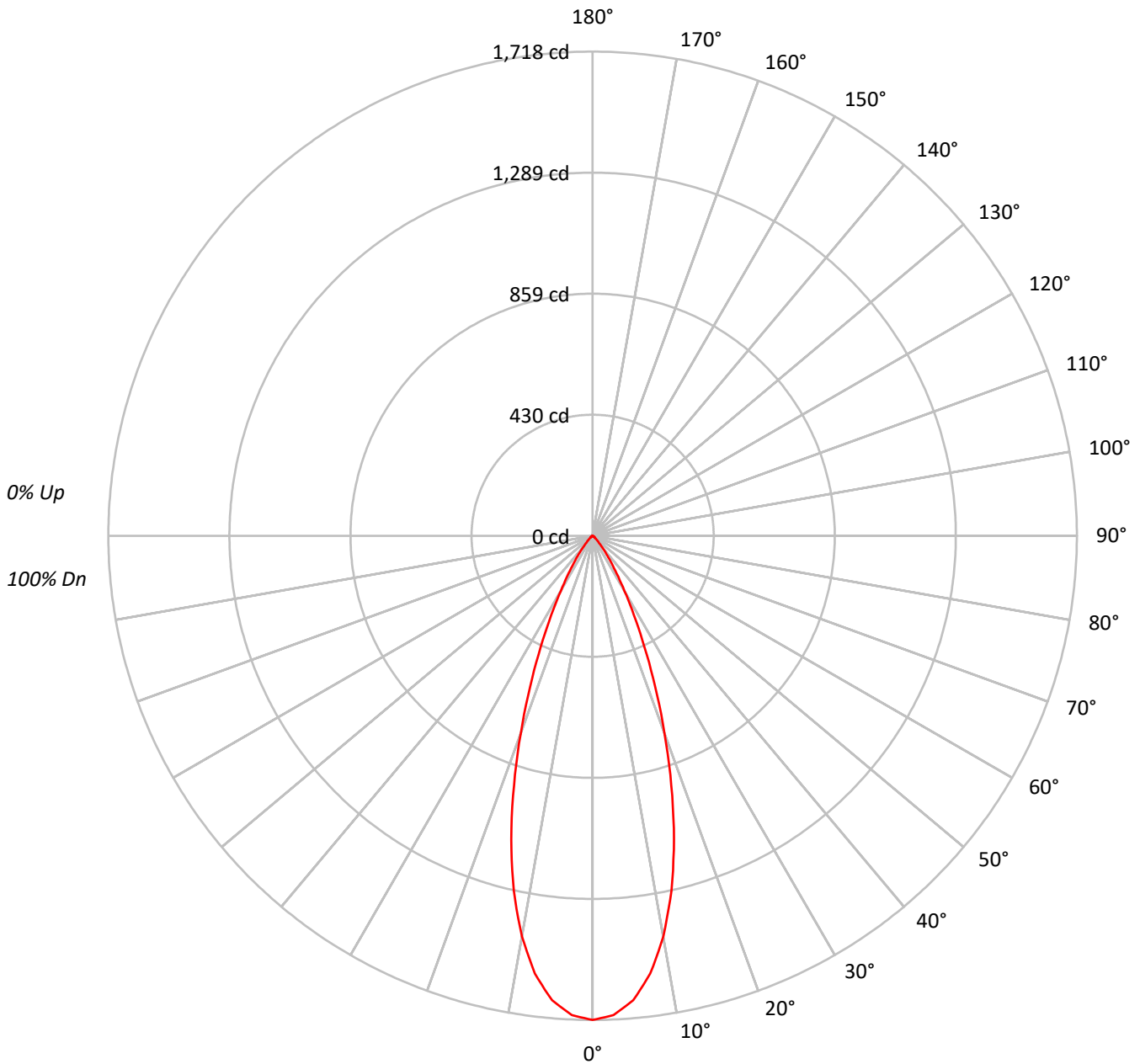
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86			
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82			
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71			
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68			
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62			

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

	0°
0°	665422
5°	643273
10°	567602
15°	447166
20°	307299
25°	185572
30°	100591
35°	51684
40°	25282
45°	11997
50°	6267
55°	4187
60°	2402
65°	917
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	20.0
10°-20°	303.6	40.1
20°-30°	202.8	26.8
30°-40°	73.5	9.7
40°-50°	19.0	2.5
50°-60°	5.6	0.7
60°-70°	1.4	0.2
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°	657.5	86.9
0°-40°	731.0	96.6
0°-60°	755.6	99.8
0°-90°	757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1718	
5°	1654	151
15°	1115	304
25°	434	203
35°	109	73
45°	22	19
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1717.9
2.5°	1702.3
5°	1654.4
7.5°	1567.0
10°	1443.1
12.5°	1291.1
15°	1115.1
17.5°	927.7
20°	745.5
22.5°	577.9
25°	434.2
27.5°	316.5
30°	224.9
32.5°	158.3
35°	109.3
37.5°	76.0
40°	50.0
42.5°	32.3
45°	21.9
47.5°	15.6
50°	10.4
52.5°	8.3
55°	6.2
57.5°	4.2
60°	3.1
62.5°	2.1
65°	1.0
67.5°	1.0
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)