

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: P224960

Luminaire Tested: **LD2B05D010 EU2B05FL409030 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (152)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD2B05D010 EU2B05FL409030 2LBDL\*LI  
Description: 500 Lumen, 2inch Portfolio LED Downlight  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 584.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.58  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

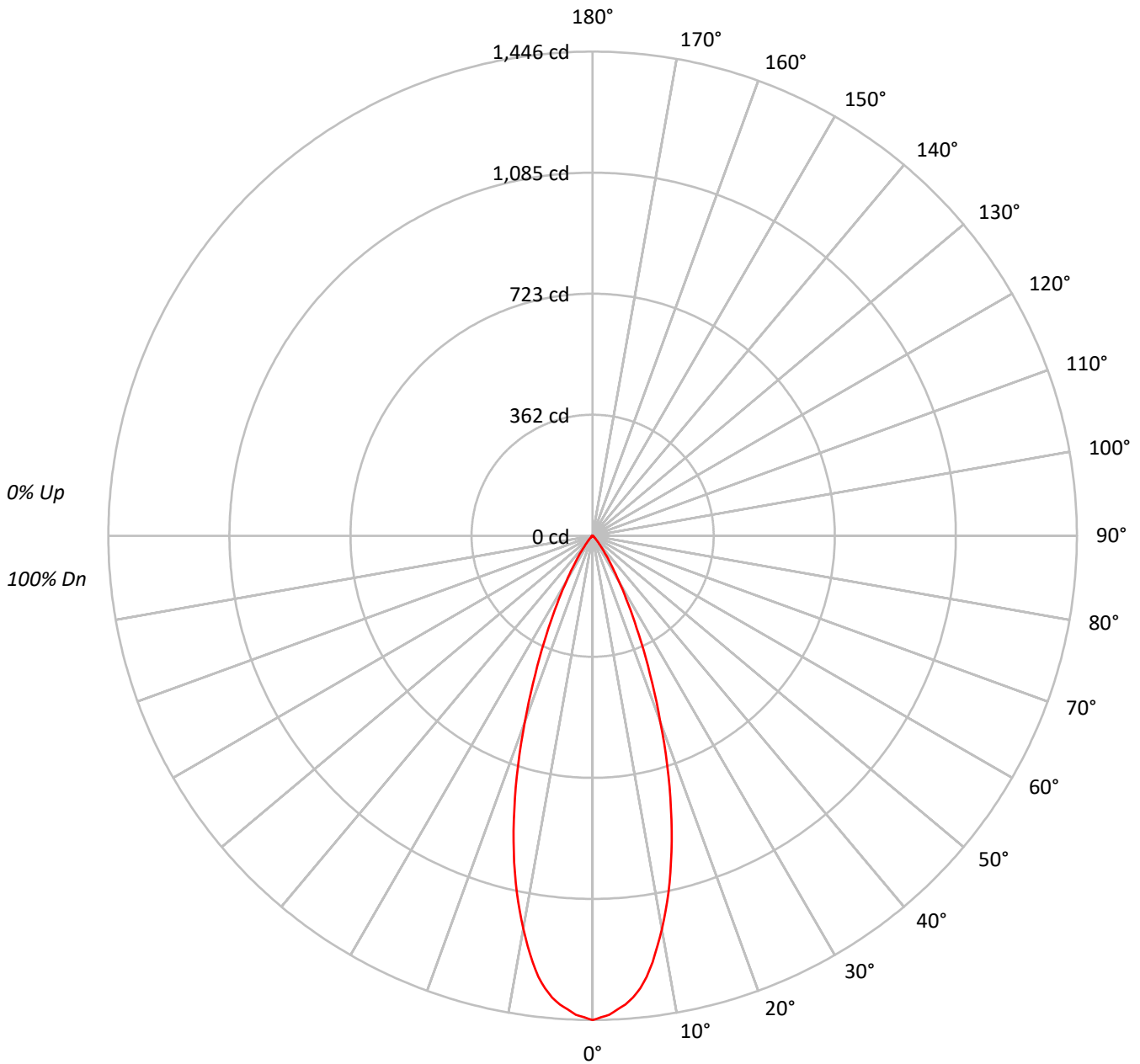
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	560219
5°	538329
10°	468642
15°	365922
20°	243366
25°	139372
30°	69282
35°	31824
40°	12793
45°	5861
50°	2712
55°	1486
60°	852
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	21.6
10°-20°	247.5	42.4
20°-30°	153.1	26.2
30°-40°	45.8	7.8
40°-50°	9.2	1.6
50°-60°	2.2	0.4
60°-70°	0.1	0.0
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°	526.6	90.2
0°-40°	572.4	98.0
0°-60°	583.9	100.0
0°-90°	584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	584.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1446	
5°	1384	126
15°	912	247
25°	326	153
35°	67	46
45°	11	9
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1446.3
1°	1438.4
2°	1431.1
3°	1416.5
4°	1403.1
5°	1384.5
6°	1359.3
7°	1327.3
8°	1286.3
9°	1239.7
10°	1191.5
11°	1141.5
12°	1088.2
13°	1032.6
14°	973.2
15°	912.5
17.5°	752.6
20°	590.4
22.5°	446.7
25°	326.1
27.5°	229.0
30°	154.9
32.5°	102.1
35°	67.3
37.5°	42.1
40°	25.3
42.5°	16.3
45°	10.7
47.5°	6.7
50°	4.5
52.5°	3.4
55°	2.2
57.5°	1.7
60°	1.1
62.5°	0.0
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



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**CANDELA DISTRIBUTION (continued):**

0°  
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)