

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: P224964

Luminaire Tested: **LD2B05D010 EU2B05FL409727 2LBDL\*LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224964  
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 EU2B05FL409727 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: 504.0 lumens  
Efficiency: N/A  
Efficacy: 69.0 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

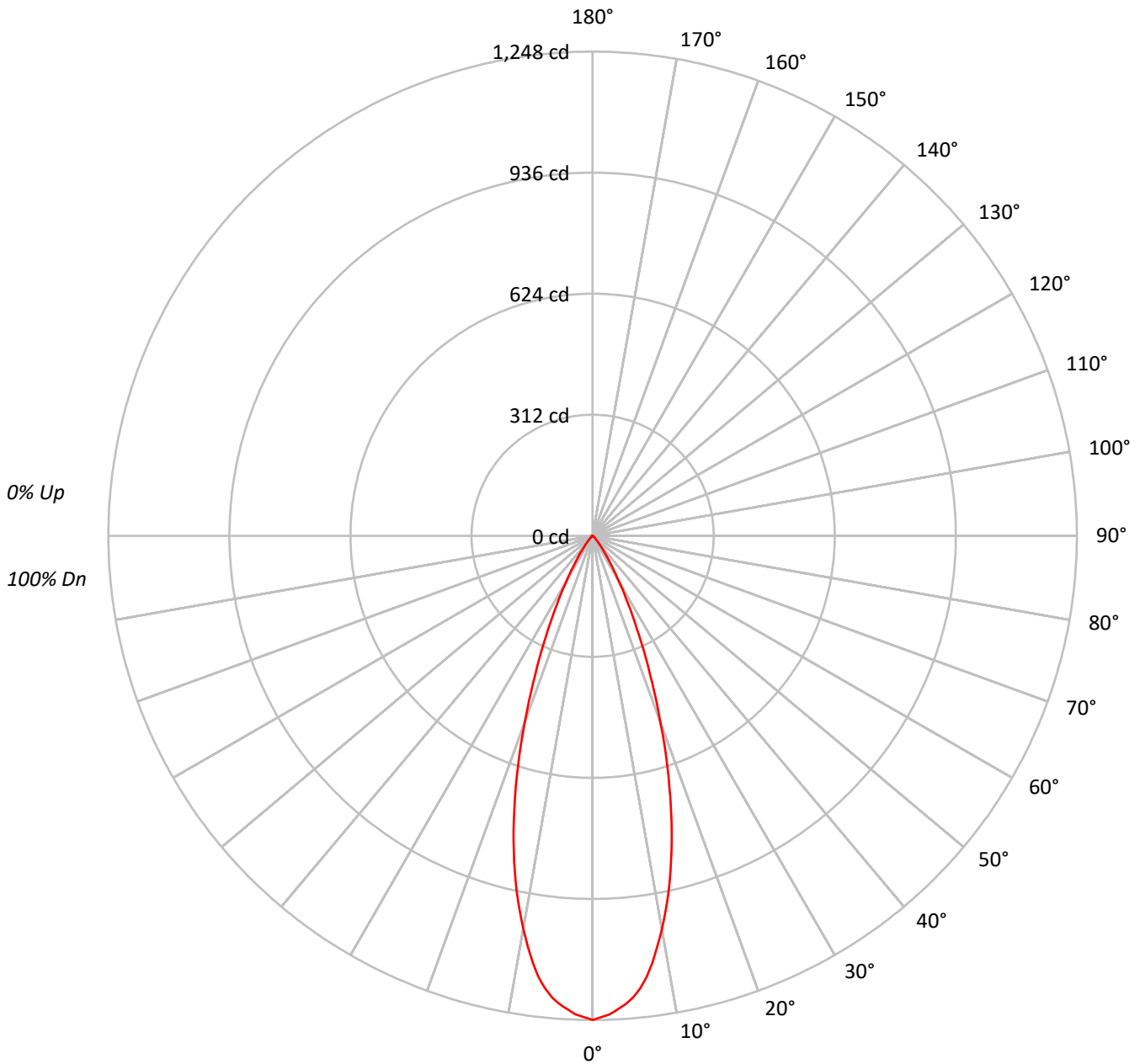
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	105	103	102	101	100	99	98	97	96				96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91				91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87				87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83				83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79				79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76				76
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73				73
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70				70
9	85	77	72	69	84	76	72	69	76	71	69	75	71	68	74	71	68	67				67
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65				65

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

	0°
0°	483485
5°	464608
10°	404452
15°	315795
20°	210018
25°	120267
30°	59800
35°	27473
40°	11023
45°	5040
50°	2350
55°	1283
60°	775
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	21.6
10°-20°	213.6	42.4
20°-30°	132.2	26.2
30°-40°	39.6	7.8
40°-50°	7.9	1.6
50°-60°	1.9	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°	454.5	90.2
0°-40°	494.0	98.0
0°-60°	503.9	100.0
0°-90°	504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1248	
5°	1195	109
15°	788	214
25°	281	132
35°	58	40
45°	9	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1248.2
1°	1241.4
2°	1235.1
3°	1222.5
4°	1210.9
5°	1194.9
6°	1173.1
7°	1145.5
8°	1110.1
9°	1069.9
10°	1028.3
11°	985.2
12°	939.1
13°	891.2
14°	839.9
15°	787.5
17.5°	649.5
20°	509.5
22.5°	385.5
25°	281.4
27.5°	197.6
30°	133.7
32.5°	88.2
35°	58.1
37.5°	36.3
40°	21.8
42.5°	14.0
45°	9.2
47.5°	5.8
50°	3.9
52.5°	2.9
55°	1.9
57.5°	1.5
60°	1.0
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)