

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: P#

Luminaire Tested: **LSSQWM2B05WFL559035D010 2LBDC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14810)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B05WFL559035D010 2LBDC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
WIDE FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

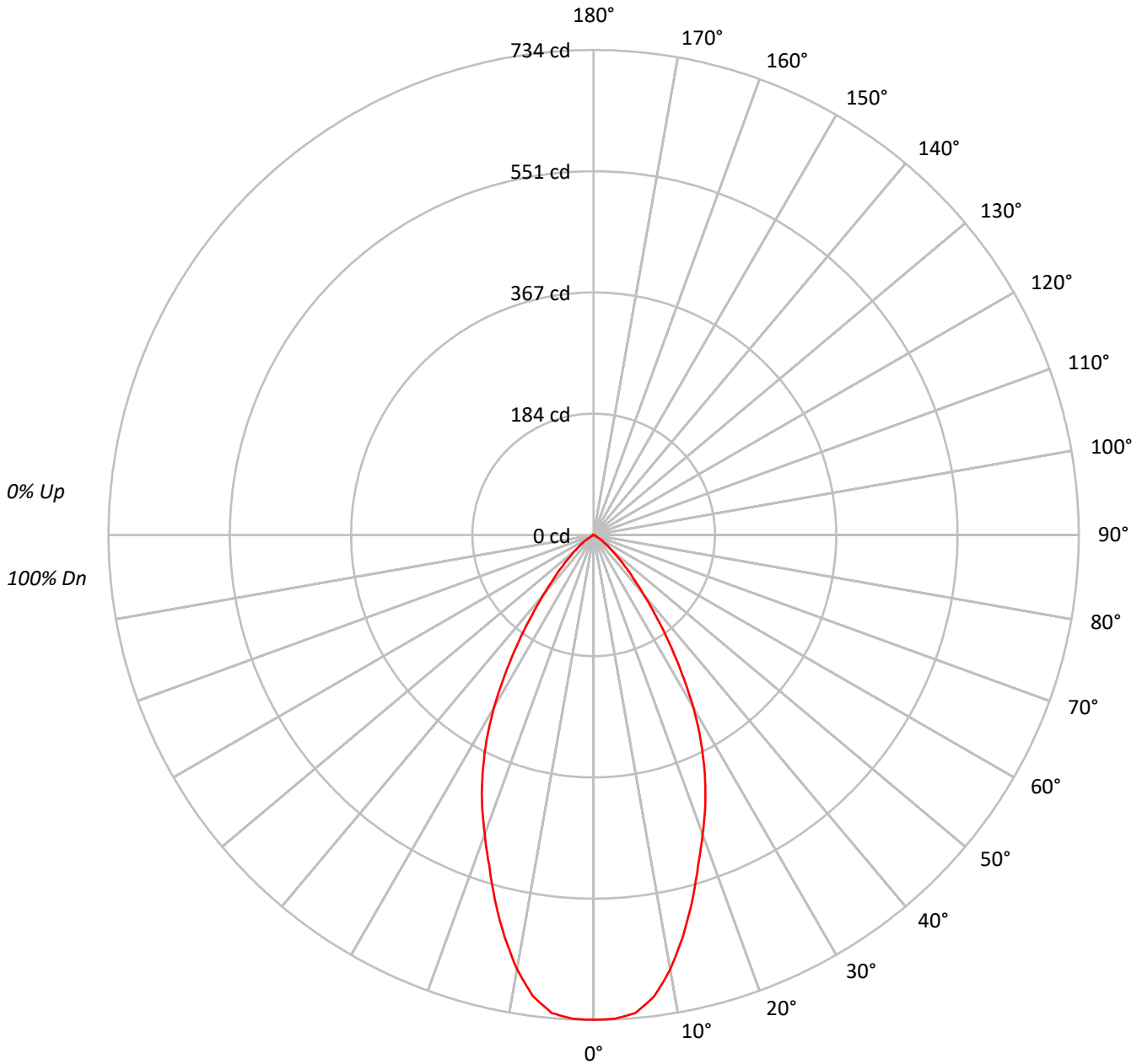
Lumens per Lamp: N/A  
Luminaire Lumens: 606.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.84  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	102	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			
4	97	89	83	79	95	88	82	78	85	81	77	83	80	76	82	78	76	74			
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69			
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			
8	78	69	62	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56			
9	74	65	59	55	73	64	58	54	63	58	54	62	57	54	61	57	54	53			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49			

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

	0°
0°	284273
5°	282443
10°	262581
15°	230501
20°	198724
25°	169930
30°	134851
35°	94005
40°	59464
45°	36318
50°	21453
55°	11751
60°	2556
65°	2291
70°	1925
75°	2544
80°	1785
85°	3555



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.4	11.1
10°-20°	160.1	26.4
20°-30°	180.6	29.8
30°-40°	125.0	20.6
40°-50°	53.2	8.8
50°-60°	15.4	2.5
60°-70°	2.3	0.4
70°-80°	1.4	0.2
80°-90°	0.5	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°	408.1	67.3
0°-40°	533.1	88.0
0°-60°	601.8	99.3
0°-90°	606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	734	
5°	726	67
15°	575	160
25°	398	181
35°	199	125
45°	66	53
55°	17	15
65°	2	2
75°	2	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	733.9
2.5°	733.1
5°	726.4
7.5°	704.1
10°	667.6
12.5°	622.9
15°	574.8
17.5°	525.2
20°	482.1
22.5°	441.5
25°	397.6
27.5°	351.2
30°	301.5
32.5°	247.7
35°	198.8
37.5°	154.1
40°	117.6
42.5°	88.6
45°	66.3
47.5°	48.0
50°	35.6
52.5°	25.7
55°	17.4
57.5°	7.5
60°	3.3
62.5°	2.5
65°	2.5
67.5°	1.7
70°	1.7
72.5°	1.7
75°	1.7
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)