

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: P224859

Luminaire Tested: **LSSQWM2B05FL409050D010 2LBD\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B05FL409050D010 2LBD\*B  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 663.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

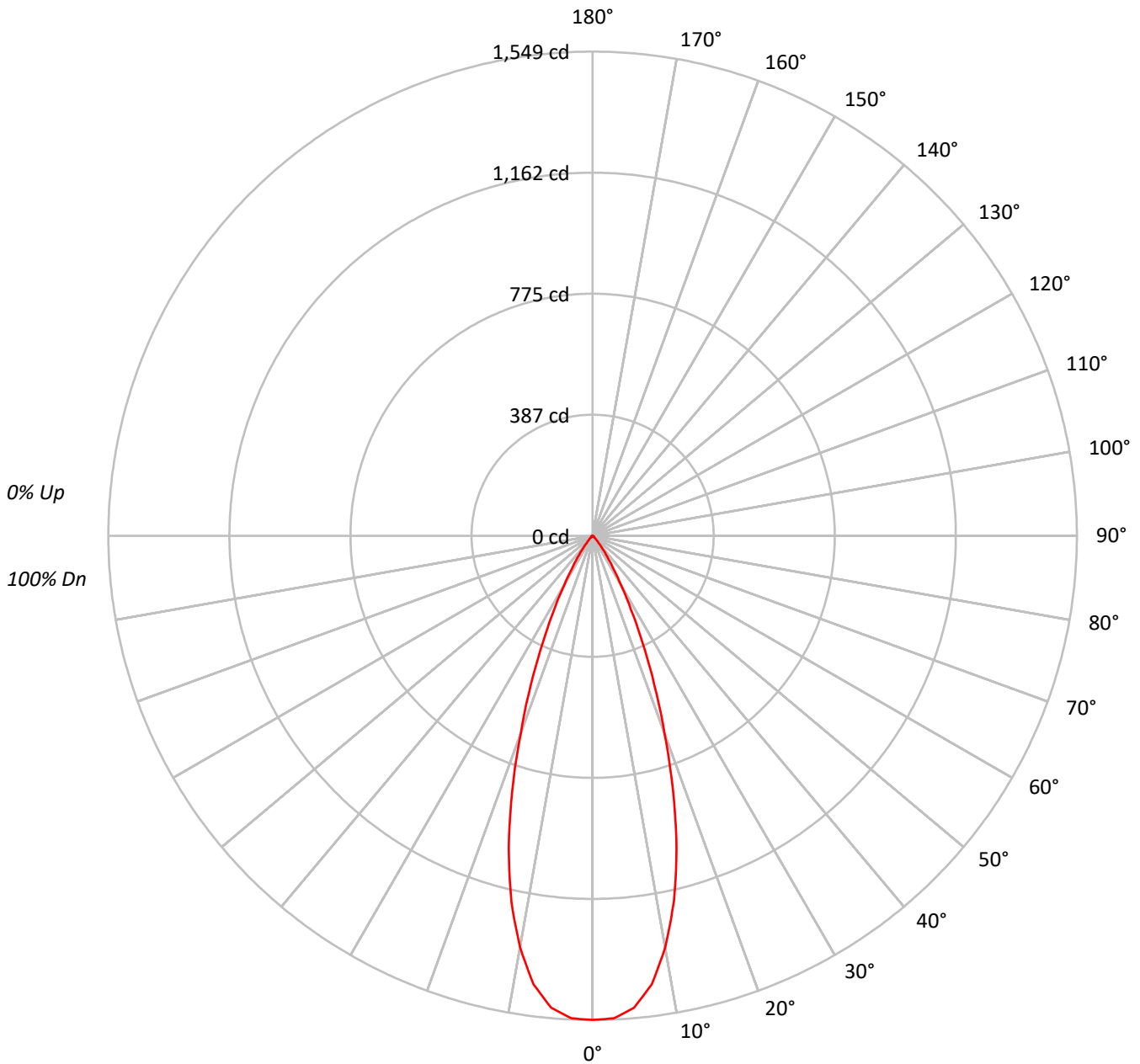
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
RC	80									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	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	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91																											
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87																											
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83																											
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79																											
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76																											
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72																											
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69																											
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67																											
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64																											

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

	0°
0°	599883
5°	589460
10°	525831
15°	415647
20°	277125
25°	160784
30°	80464
35°	37876
40°	14815
45°	6628
50°	3134
55°	1756
60°	697
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.0	21.0
10°-20°	280.6	42.3
20°-30°	176.5	26.6
30°-40°	54.0	8.1
40°-50°	10.6	1.6
50°-60°	2.4	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°	596.0	89.9
0°-40°	649.9	98.0
0°-60°	662.9	100.0
0°-90°	663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1549	
5°	1516	139
15°	1036	281
25°	376	176
35°	80	54
45°	12	11
55°	3	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1548.7
2.5°	1545.2
5°	1516.0
7.5°	1447.1
10°	1336.9
12.5°	1199.2
15°	1036.5
17.5°	855.7
20°	672.3
22.5°	515.7
25°	376.2
27.5°	265.1
30°	179.9
32.5°	121.4
35°	80.1
37.5°	49.1
40°	29.3
42.5°	18.9
45°	12.1
47.5°	7.7
50°	5.2
52.5°	3.4
55°	2.6
57.5°	1.7
60°	0.9
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)