

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: P223450

Luminaire Tested: **LSSQWM2B15NFL258027D010 2LBDC\*MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (155)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B15NFL258027D010 2LBDC\*MB  
Description: 1500 Lumen, 2inch Portfolio LED Cylinder  
NARROW FLOOD OPTIC  
CAST ROUND TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1323.5 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

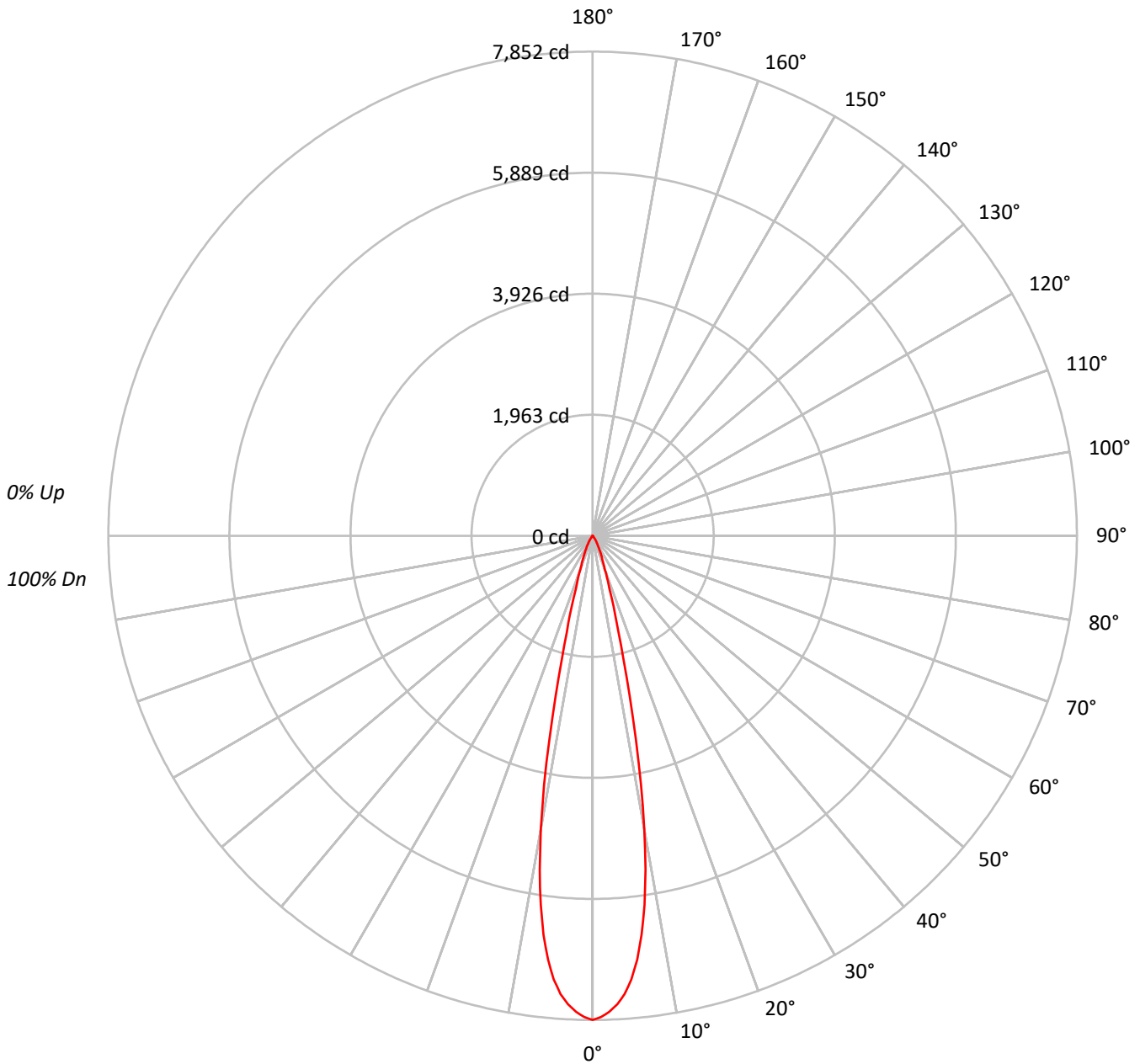
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	93	92
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	91	90
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	89	88	88
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	87	86	86
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	85	84	84
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84	83	82	82
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	81	80	80
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	79	79	79
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

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

	0°
0°	3041363
5°	2808176
10°	1900765
15°	646669
20°	237513
25°	125909
30°	64720
35°	30216
40°	9911
45°	4985
50°	2350
55°	878
60°	1007
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.3	46.4
10°-20°	516.5	39.0
20°-30°	141.7	10.7
30°-40°	41.3	3.1
40°-50°	7.6	0.6
50°-60°	1.7	0.1
60°-70°	0.2	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°	1272.6	96.2
0°-40°	1314.0	99.3
0°-60°	1323.3	100.0
0°-90°	1323.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7852	
5°	7222	614
15°	1613	517
25°	295	142
35°	64	41
45°	9	8
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7851.8
1°	7806.2
2°	7725.4
3°	7609.3
4°	7450.3
5°	7222.2
6°	6910.6
7°	6520.8
8°	6045.0
9°	5483.1
10°	4832.6
11°	4119.5
12°	3377.7
13°	2669.9
14°	2066.3
15°	1612.6
17.5°	909.9
20°	576.2
22.5°	410.6
25°	294.6
27.5°	208.6
30°	144.7
32.5°	101.7
35°	63.9
37.5°	26.1
40°	19.6
42.5°	14.3
45°	9.1
47.5°	5.2
50°	3.9
52.5°	2.6
55°	1.3
57.5°	1.3
60°	1.3
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)