

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: P223956

Luminaire Tested: **LSSQWM2B05SP159024D010 2LBDC\*MB**

Issue Date: 3/3/2020

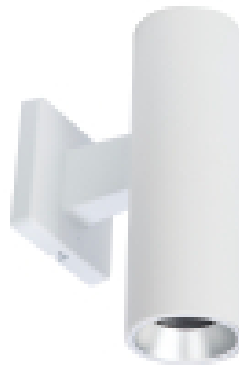
**Test Information**

Test Method: LM-41-14  
Report Number: P223956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( 150)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSSQWM2B05SP159024D010 2LBDC\*MB  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
CAST ROUND TRIM WITH MATTE BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 317.0 lumens  
Efficiency: N/A  
Efficacy: 43.4 lumens/watt  
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

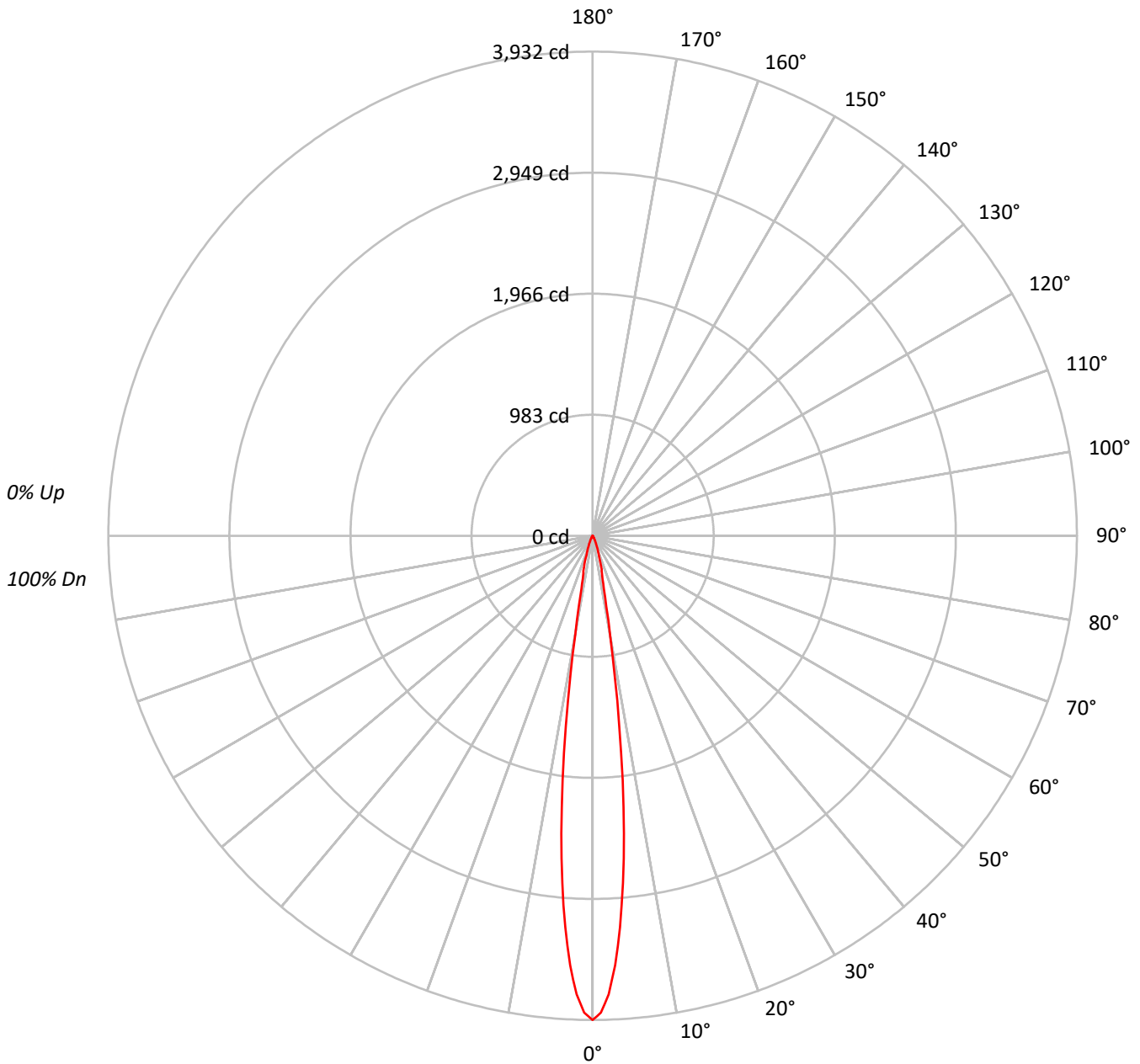
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98				98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96				96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94				94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93				93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91				91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90				90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88				88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	89	88	87				87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86				86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85				85

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

	0°
0°	1523238
5°	1101154
10°	320596
15°	112483
20°	48146
25°	21669
30°	8364
35°	4161
40°	2781
45°	1808
50°	1024
55°	743
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.4	63.2
10°-20°	81.5	25.7
20°-30°	25.0	7.9
30°-40°	6.2	1.9
40°-50°	2.6	0.8
50°-60°	1.1	0.4
60°-70°	0.2	0.1
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°	307.0	96.8
0°-40°	313.1	98.8
0°-60°	316.8	99.9
0°-90°	317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	317.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3932	
5°	2832	200
15°	280	82
25°	51	25
35°	9	6
45°	3	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3932.5
1°	3872.5
2°	3725.9
3°	3492.2
4°	3186.9
5°	2832.0
6°	2431.9
7°	1997.7
8°	1557.4
9°	1145.7
10°	815.1
11°	584.1
12°	439.2
13°	357.7
14°	313.0
15°	280.5
17.5°	173.0
20°	116.8
22.5°	78.3
25°	50.7
27.5°	30.9
30°	18.7
32.5°	12.1
35°	8.8
37.5°	7.2
40°	5.5
42.5°	4.4
45°	3.3
47.5°	2.2
50°	1.7
52.5°	1.7
55°	1.1
57.5°	1.1
60°	0.6
62.5°	0.6
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)