

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: P223571

Luminaire Tested: **LSSQ2B05SP159730D010 2LBDLC\*MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223571  
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: LSSQ2B05SP159730D010 2LBDLC\*MW  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
LENSED CAST ROUND TRIM WITH MATTE WHITE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 308.0 lumens  
Efficiency: N/A  
Efficacy: 42.2 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

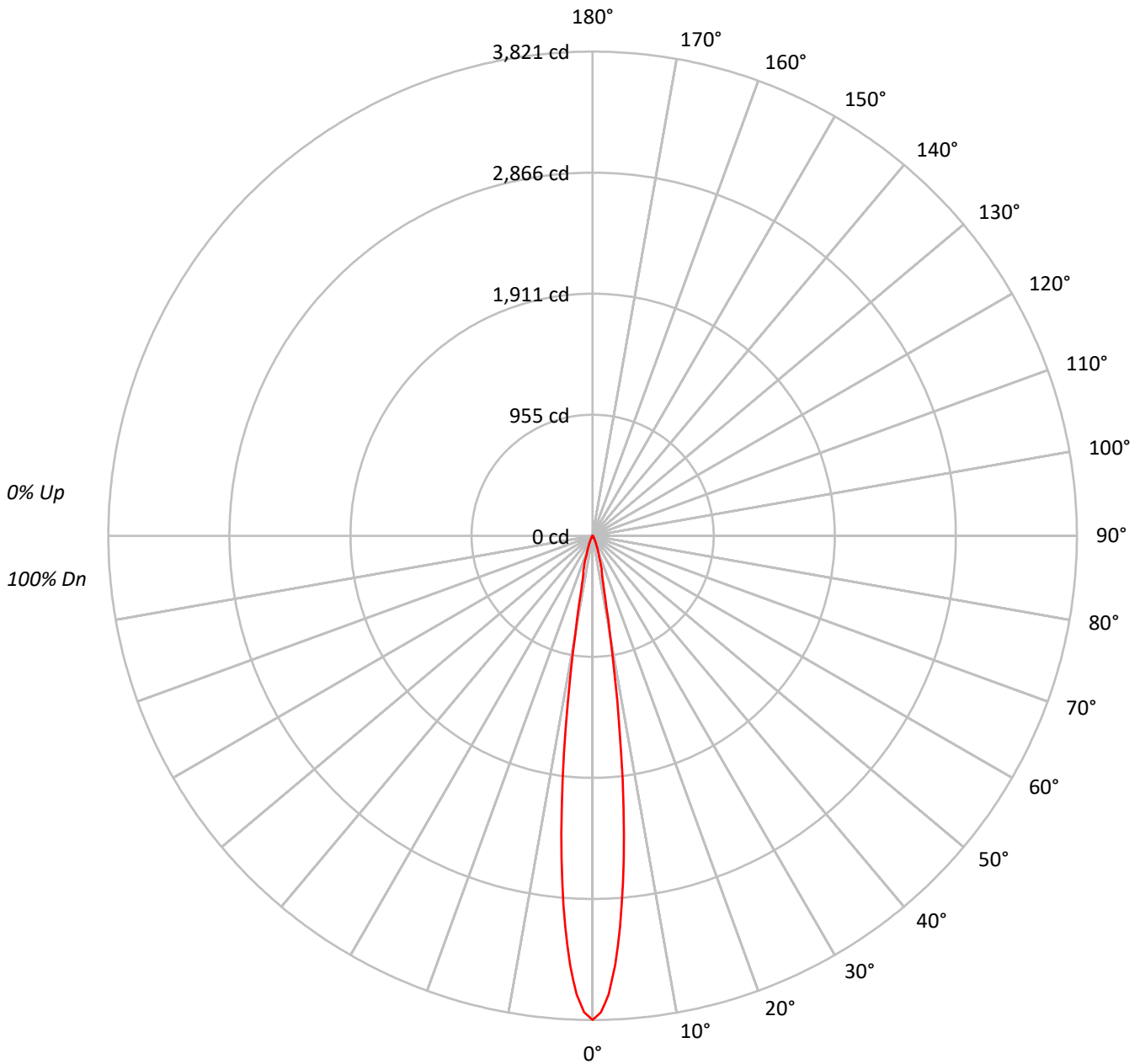
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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	99	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	90	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°	1480010
5°	1069892
10°	311471
15°	109275
20°	46785
25°	21070
30°	8140
35°	4067
40°	2730
45°	1753
50°	964
55°	743
60°	387
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.7	63.2
10°-20°	79.2	25.7
20°-30°	24.3	7.9
30°-40°	6.0	2.0
40°-50°	2.5	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°	298.2	96.8
0°-40°	304.3	98.8
0°-60°	307.8	99.9
0°-90°	308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3821	
5°	2752	195
15°	272	79
25°	49	24
35°	9	6
45°	3	2
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3820.9
1°	3762.5
2°	3620.1
3°	3393.1
4°	3096.4
5°	2751.6
6°	2362.9
7°	1941.0
8°	1513.1
9°	1113.2
10°	791.9
11°	567.6
12°	426.7
13°	347.5
14°	304.1
15°	272.5
17.5°	168.1
20°	113.5
22.5°	76.0
25°	49.3
27.5°	30.0
30°	18.2
32.5°	11.8
35°	8.6
37.5°	7.0
40°	5.4
42.5°	4.3
45°	3.2
47.5°	2.1
50°	1.6
52.5°	1.6
55°	1.1
57.5°	1.1
60°	0.5
62.5°	0.5
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)