

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: P223714

Luminaire Tested: **LSR2B05SP159035D010 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P223714  
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: LSR2B05SP159035D010 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
SPOT OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 341.0 lumens  
Efficiency: N/A  
Efficacy: 46.7 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

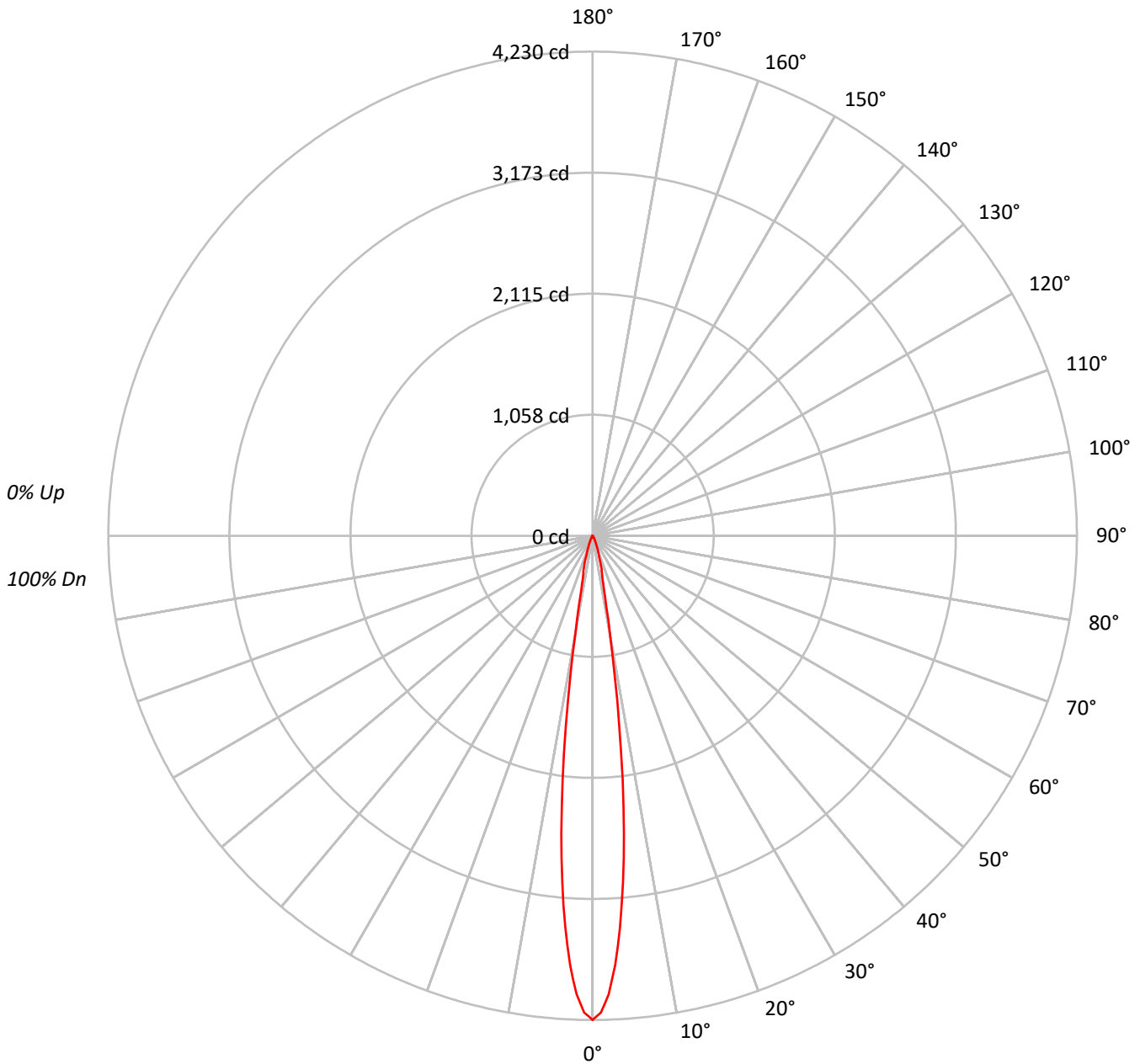
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98	98	98	98
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	99	98	96	96	96	96
3	110	106	103	101	108	105	102	100	102	100	98	100	98	97	98	97	96	94	94	94	94
4	108	103	100	97	106	102	99	97	100	98	96	98	96	95	97	95	94	93	93	93	93
5	105	101	97	95	104	100	97	94	98	96	94	97	95	93	95	94	92	91	91	91	91
6	103	98	95	93	102	98	95	92	96	94	92	95	93	91	94	92	91	90	90	90	90
7	101	96	93	91	100	96	93	90	95	92	90	94	91	90	93	91	89	88	88	88	88
8	100	94	91	89	99	94	91	89	93	90	89	92	90	88	92	89	88	87	87	87	87
9	98	93	90	88	97	92	89	87	92	89	87	91	89	87	90	88	87	86	86	86	86
10	96	91	88	86	96	91	88	86	90	88	86	90	87	86	89	87	86	85	85	85	85

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

	0°
0°	1638590
5°	1184518
10°	344864
15°	120985
20°	51814
25°	23293
30°	9035
35°	4492
40°	2983
45°	1972
50°	1085
55°	810
60°	465
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.6	63.2
10°-20°	87.7	25.7
20°-30°	26.9	7.9
30°-40°	6.6	1.9
40°-50°	2.8	0.8
50°-60°	1.2	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°	330.2	96.8
0°-40°	336.8	98.8
0°-60°	340.8	99.9
0°-90°	341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4230	
5°	3046	216
15°	302	88
25°	54	27
35°	10	7
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4230.3
1°	4165.6
2°	4008.0
3°	3756.6
4°	3428.2
5°	3046.4
6°	2616.1
7°	2148.9
8°	1675.3
9°	1232.4
10°	876.8
11°	628.4
12°	472.5
13°	384.7
14°	336.7
15°	301.7
17.5°	186.1
20°	125.7
22.5°	84.2
25°	54.5
27.5°	33.2
30°	20.2
32.5°	13.0
35°	9.5
37.5°	7.7
40°	5.9
42.5°	4.7
45°	3.6
47.5°	2.4
50°	1.8
52.5°	1.8
55°	1.2
57.5°	1.2
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)