

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: P225479

Luminaire Tested: **LSR2B05FL409050D010 2LBDL\*H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P225479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14832)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B05FL409050D010 2LBDL\*H  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH HAZE FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 632.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

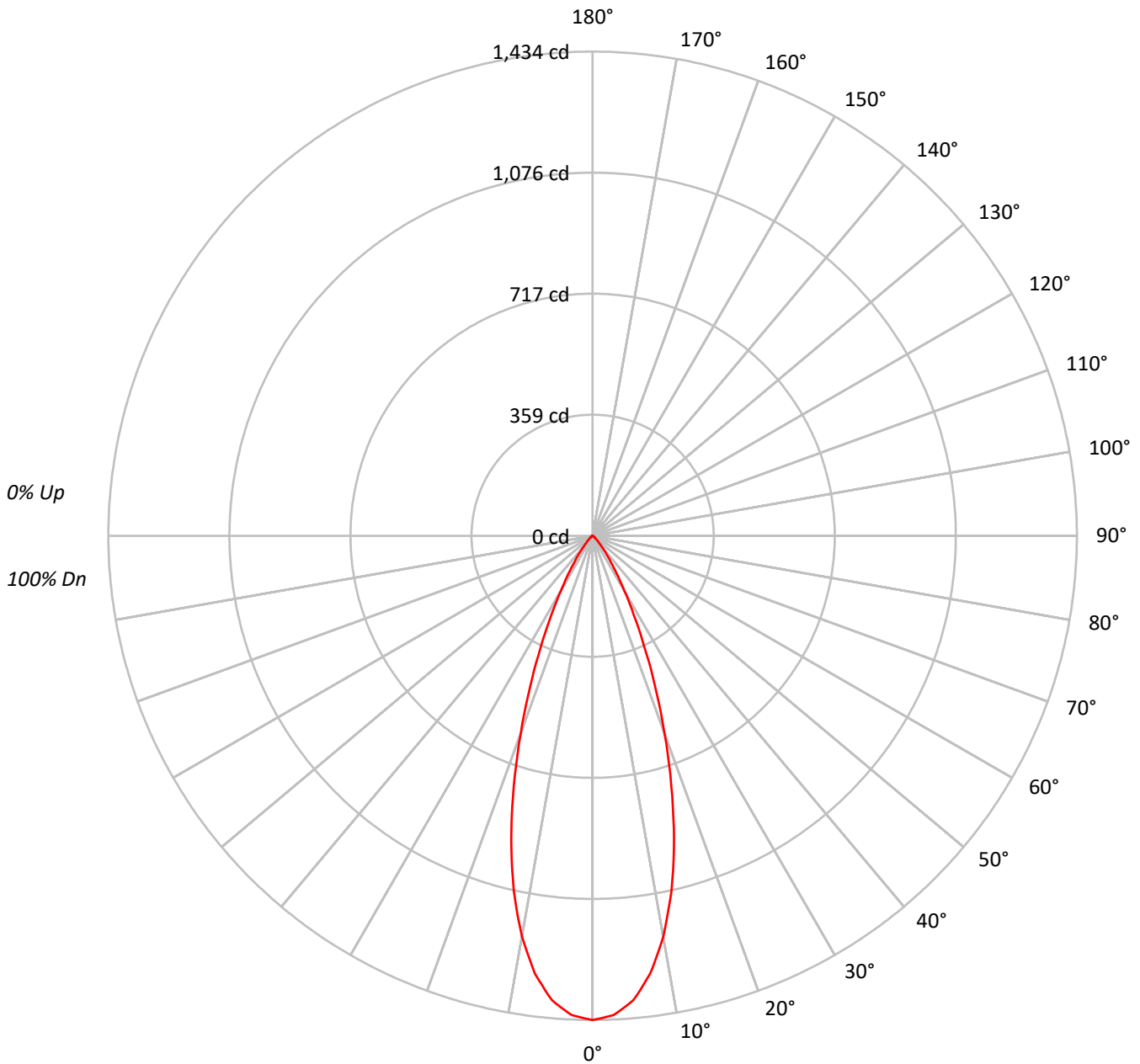
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86	86	86	86
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82	82	82	82
5	97	90	85	81	96	89	84	81	87	83	80	86	82	80	84	81	79	78	78	78	78
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74	74	74	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71	71	71	71
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68	68	68	68
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65	65	65	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62	62	62	62

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

	0°
0°	555570
5°	537046
10°	473874
15°	373340
20°	256556
25°	154929
30°	83997
35°	43172
40°	21085
45°	10025
50°	5243
55°	3512
60°	2014
65°	825
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	20.0
10°-20°	253.4	40.1
20°-30°	169.3	26.8
30°-40°	61.3	9.7
40°-50°	15.8	2.5
50°-60°	4.7	0.7
60°-70°	1.2	0.2
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°	549.0	86.9
0°-40°	610.3	96.6
0°-60°	630.9	99.8
0°-90°	632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1434	
5°	1381	126
15°	931	253
25°	362	169
35°	91	61
45°	18	16
55°	5	5
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1434.3
2.5°	1421.2
5°	1381.2
7.5°	1308.2
10°	1204.8
12.5°	1077.9
15°	931.0
17.5°	774.5
20°	622.4
22.5°	482.4
25°	362.5
27.5°	264.3
30°	187.8
32.5°	132.1
35°	91.3
37.5°	63.5
40°	41.7
42.5°	26.9
45°	18.3
47.5°	13.0
50°	8.7
52.5°	7.0
55°	5.2
57.5°	3.5
60°	2.6
62.5°	1.7
65°	0.9
67.5°	0.9
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)