

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: P224809

Luminaire Tested: **LSR2B05FL409024D010 2LBDL\*B**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P224809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14834)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LSR2B05FL409024D010 2LBDL\*B  
Description: 500 Lumen, 2inch Portfolio LED Cylinder  
FLOOD OPTIC  
LENSED SPUN ROUND TRIM WITH BLACK FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 509.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

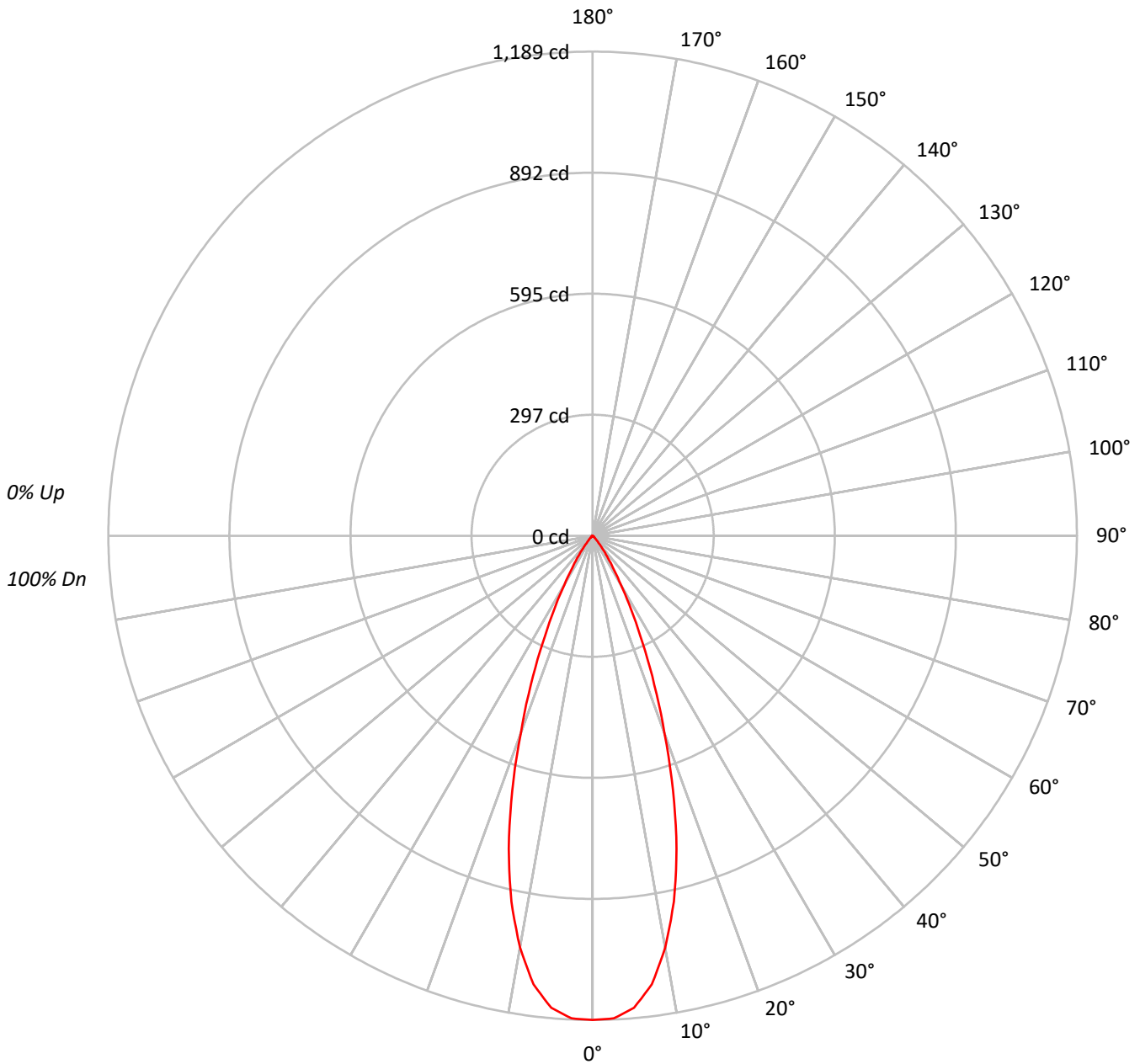
Input Watts (W): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91			
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87			
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83			
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79			
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76			
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72			
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69			
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67			
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64			

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

	0°
0°	460554
5°	452515
10°	403705
15°	319084
20°	212780
25°	123430
30°	61768
35°	29081
40°	11377
45°	5094
50°	2410
55°	1351
60°	542
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	21.0
10°-20°	215.4	42.3
20°-30°	135.5	26.6
30°-40°	41.4	8.1
40°-50°	8.1	1.6
50°-60°	1.8	0.4
60°-70°	0.1	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°	457.5	89.9
0°-40°	499.0	98.0
0°-60°	508.9	100.0
0°-90°	509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1189	
5°	1164	107
15°	796	215
25°	289	135
35°	62	41
45°	9	8
55°	2	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1189.0
2.5°	1186.3
5°	1163.8
7.5°	1111.0
10°	1026.4
12.5°	920.6
15°	795.7
17.5°	656.9
20°	516.2
22.5°	395.9
25°	288.8
27.5°	203.6
30°	138.1
32.5°	93.2
35°	61.5
37.5°	37.7
40°	22.5
42.5°	14.5
45°	9.3
47.5°	5.9
50°	4.0
52.5°	2.6
55°	2.0
57.5°	1.3
60°	0.7
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)